

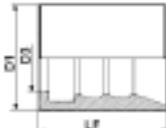


Hose fittings

Standard fittings for TE, KP, HD 100 to HD 400 hoses	For SG hoses
Hose ferrules	Hose ferrules
Metric series	356
BSP	
NPT	
JIC	
JIS	
SAE	
ORFS	
Flanges	
French series	
Banjos	
Hose connectors	
Plug connections	
Other	
Interlock fittings for 4SP (HD 400 hoses, with pull-out protection)	For low-pressure plug-in hoses
Metric series	Metric series
BSP	359
JIC	368
NPT	374
SAE	375
ORFS	376
Flanges	379
French series	380
Banjos	381
Interlock fittings for 4SH (HD 500 hoses)	For thermoplastic hoses
Metric series	Hose ferrules
BSP	383
JIC	
NPT	
ORFS	
Flanges	
Interlock fittings for SAE R13 (HD 600 hoses)	For thermoplastic hoses (for NY 300 hoses)
BSP	Metric series
NPT	388
JIC	393
ORFS	395
Flanges	397
Interlock fittings for SAE R15 (HD 700 hoses)	For thermoplastic hoses (for NY 2100 hoses)
Metric series	Flanges
BSP	399
NPT	405
JIC	French series
ORFS	
Flanges	
Interlock fittings for HD 800 hoses	For TAF and TBF hoses
Metric series	Hose ferrules
BSP	411
NPT	Metric series
JIC	413
ORFS	BSP
Flanges	425
	NPT
	428
	JIC
	429
Individual parts	Industry (for HF and HW hoses)
SAE flange halves	Metric series
SAE full flanges	435
	Connectors for Kärcher washing equipment
	438
Industry (for TF hoses)	Industry (for HF and HW hoses)
Hose ferrules	Metric series
	435
	Connectors for Kärcher washing equipment
	438
	Individual parts
	SAE flange halves
	430
	SAE full flanges
	433
	Industry (for TF hoses)
	Hose ferrules
	440

PHD 100

Swage ferrule for braided hose



Ferrule type:
suitable for:

Skive ferrule
1SN (HD 100, HD 100T, HF 100, HW
100), 1SC (KP 100), 2SC (KP 200, KP
200PRO, KP 200S)

Material:

Steel
electro galvanised

2

Note: The ferrule assignment depends on the hose type.

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PHD 104	5	3	3/16"	17	8,5	26,0
PHD 106	6	4	1/4"	20	10,9	31,0
PHD 108	8	5	5/16"	21	12,8	31,0
PHD 110	10	6	3/8"	24	14,0	31,0
PHD 113	12	8	1/2"	28	18,3	35,0
PHD 116	16	10	5/8"	31	21,6	36,0
PHD 120	19	12	3/4"	35	24,8	42,5
PHD 125	25	16	1"	42	30,5	50,5
PHD 132	31	20	1.1/4"	52	37,7	59,0
PHD 140	38	24	1.1/2"	58	44,2	63,0
PHD 150	51	32	2"	71	57,2	70,0

DN = Nominal diameter, nominal width

PHD 100 VA**Swage ferrule for braided hose**

Ferrule type:	Skive ferrule / non-skive ferrule
suitable for:	Skive ferrule: 1SN (HD 100, HD 100T, HF 100, HW 100), 1SC (KP 100), 2SC (KP 200, KP 200PRO, KP 200S) non-skive ferrule: 1SN (HD 100), 1SC (DN 16, 19, 25) 2TE (TE 200B, DN 06 to DN 25)
Material:	Stainless steel



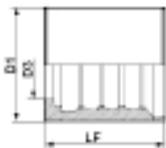
Note: The ferrule assignment depends on the hose type.

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PHD 106 VA	6	4	1/4"	20	10,4	34,5
PHD 108 VA	8	5	5/16"	22	12,0	34,5
PHD 110 VA	10	6	3/8"	25	14,0	35,0
PHD 113 VA	12	8	1/2"	28	17,3	37,0
PHD 116 VA	16	10	5/8"	32	20,3	40,0
PHD 120 VA	19	12	3/4"	36	24,3	45,0
PHD 125 VA	25	16	1"	45	32,3	50,0
PHD 132 VA	31	20	1 1/4"	55	37,8	70,0
PHD 140 VA	38	24	1 1/2"	60	45,0	70,0
PHD 150 VA	51	32	2"	76	57,5	80,0

DN = Nominal diameter, nominal width

PHD 200

Swage ferrule for braided hose



Ferrule type:
suitable for:

Skive ferrule
2SN (HD 200, HD 200T, HD 200RM,
HD 200S, HF 200, HW 200), KP 400,
4SP (HD 400)

Material:
Surface:

Steel
electro galvanised

2

Note: The ferrule assignment depends on the hose type.

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PHD 204	5	3	3/16"	21	8,5	26,0
PHD 206	6	4	1/4"	22	11,4	30,0
PHD 208	8	5	5/16"	23	12,5	30,0
PHD 210	10	6	3/8"	26	14,5	31,0
PHD 213	12	8	1/2"	30	18,3	32,0
PHD 416	16	10	5/8"	33	21,7	38,0
PHD 220	19	12	3/4"	38	24,4	42,5
PHD 225	25	16	1"	46	30,5	51,0
PHD 232	31	20	1.1/4"	57	38,0	58,0
PHD 240	38	24	1.1/2"	65	44,3	62,0
PHD 250	51	32	2"	79	57,0	73,5
PHD 260	60	40	2.3/8"	84	67,1	79,0
PHD 276	76	48	3"	105	81,8	80,0

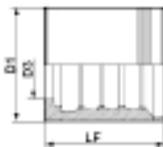
DN = Nominal diameter, nominal width

PHD 200 VA**Swage ferrule for braided hose****Ferrule type:**

Skive ferrule

suitable for:4SP (HD 400 above DN 10)
2SN (HD 200, HD 200T, HD 200RN,
HF 200, HW 200)**Material:**

Stainless steel



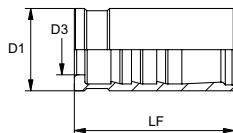
Note: The ferrule assignment depends on the hose type. PHD406VA only for 4SP DN06

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PHD 206 VA	6	4	1/4"	22,0	10,4	34,5
PHD 406 VA	6	4	1/4"	22,0	10,4	34,5
PHD 208 VA	8	5	5/16"	24,0	12,0	34,5
PHD 210 VA	10	6	3/8"	26,0	14,0	35,0
PHD 213 VA	12	8	1/2"	30,0	17,3	37,0
PHD 216 VA	16	10	5/8"	33,0	20,2	40,0
PHD 220 VA	19	12	3/4"	38,0	24,3	45,0
PHD 225 VA	25	16	1"	46,0	31,5	50,0
PHD 232 VA	31	20	1.1/4"	58,0	37,8	70,0
PHD 240 VA	38	24	1.1/2"	64,2	44,9	70,0
PHD 250 VA	51	32	2"	76,0	57,5	80,0

DN = Nominal diameter, nominal width

PKN 100

Swage ferrule for braided hose



Ferrule type:
suitable for:
Material:
Surface:

Non-skive ferrule
KP 100 P
Steel
electro galvanised

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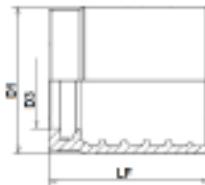
Note: The ferrule assignment depends on the hose type.

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PKN 106	6	4	1/4"	18,0	11,2	30,5
PKN 108	8	5	5/16"	19,0	12,7	32,0
PKN 110	10	6	3/8"	22,0	14,5	33,0
PKN 113	12	8	1/2"	26,0	18,3	34,0

DN = Nominal diameter, nominal width

PHN 200**Swage ferrule for braided hose**

Ferrule type:	Non-skive ferrule
suitable for:	1SN (HD 100), 2SN (HD 200), 2SC (KP 200)
Material:	Steel
Surface:	electro galvanised



Note: The ferrule assignment depends on the hose type.

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PHN 204	5	3	3/16"	21,0	9,5	23,5
PHN 206	6	4	1/4"	23,0	11,4	30,0
PHN 208	8	5	5/16"	24,0	13,2	30,0
PHN 210	10	6	3/8"	26,0	14,5	31,0
PHN 213	12	8	1/2"	29,0	18,3	32,0
PHN 216	16	10	5/8"	33,0	21,6	36,0
PHN 220	19	12	3/4"	37,0	24,4	42,5
PHN 225	25	16	1"	46,0	31,0	51,0
PHN 232	31	20	1.1/4"	59,0	38,3	57,5
PHN 240	38	24	1.1/2"	67,0	44,0	60,5
PHN 250	51	32	2"	80,0	57,0	74,0

DN = Nominal diameter, nominal width

PHN 200 VA

Swage ferrule for braided hose



Ferrule type:
suitable for:
Material:

Non-skive ferrule
2SN (HD 200), 3TE (TE 300)
Stainless steel

2

Note: The ferrule assignment depends on the hose type.

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PHN 206 VA	6	4	1/4"	22,0	10,3	34,5
PHN 208 VA	8	5	5/16"	24,0	12,0	34,5
PHN 210 VA	10	6	3/8"	26,0	14,0	35,0
PHN 213 VA	12	8	1/2"	30,0	17,2	37,0
PHN 216 VA	16	10	5/8"	33,0	20,2	40,0
PHN 220 VA	19	12	3/4"	38,0	24,2	45,0
PHN 225 VA	25	16	1"	46,0	31,5	50,0

DN = Nominal diameter, nominal width

PHT**Pressed holder for textile braid hose**

Ferrule type:	Non-skive ferrule
suitable for:	2TE (TE 200, TE 200B,), 3TE (TE 300), SI 200 RME
Material:	Steel
Surface:	electro galvanised

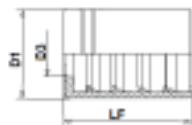


Note: The ferrule assignment depends on the hose type. PHT204 for 2TE (TE200, TE200B)
PHT304 for 3TE (TE300)

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PHT 204	5	3	3/16"	17,0	9,8	27,3
PHT 304	5	3	3/16"	18,6	9,8	27,3
PHT 06	6	4	1/4"	19,0	11,6	28,0
PHT 08	8	5	5/16"	22,3	12,6	30,2
PHT 10	10	6	3/8"	23,0	14,9	29,5
PHT 13	12	8	1/2"	27,0	18,5	31,0
PHT 16	16	10	5/8"	32,0	21,8	33,0
PHT 20	19	12	3/4"	35,0	24,6	37,5
PHT 25	25	16	1"	42,0	30,8	45,5
PHT 32	31	20	1 1/4"	48,0	37,9	55,0
PHT 40	38	24	1 1/2"	57,2	44,2	63,2
PHT 50	51	32	2"	76,0	56,8	78,5

DN = Nominal diameter, nominal width

2

PHT 300 VA**Pressed holder for textile braid hose**

Ferrule type:
suitable for:
Material:

Non-skive ferrule
3TE (TE 300)
Stainless steel

2

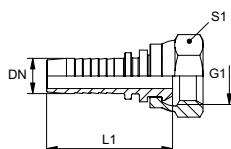
Note: The ferrule assignment depends on the hose type.

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PHT 340 VA	38	24	1.1/2"	60,0	45,1	70,0
PHT 350 VA	51	32	2"	76,0	57,4	80,0

DN = Nominal diameter, nominal width

PN AFL**Swage nipple, DKL**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	metric nut thread
Sealing form 1:	24°/60° Universal sealing head
Short code:	DKL
Series:	light
Material:	Steel
Surface:	electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

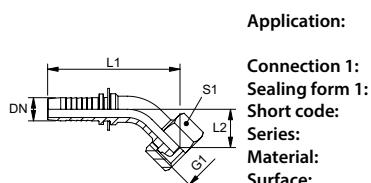
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1
PN 04 AFL	5	3	3/16"	M 12 x 1.5	6	41,2	14
PN 06 AFL 04	6	4	1/4"	M 12 x 1.5	6	45,0	14
PN 06 AFL	6	4	1/4"	M 14 x 1.5	8	47,0	17
PN 06 AFL 08	6	4	1/4"	M 16 x 1.5	10	47,5	19
PN 06 AFL 10	6	4	1/4"	M 18 x 1.5	12	48,5	22
PN 08 AFL	8	5	5/16"	M 16 x 1.5	10	47,5	19
PN 08 AFL 10	8	5	5/16"	M 18 x 1.5	12	48,5	22
PN 10 AFL 06	10	6	3/8"	M 14 x 1.5	8	49,5	17
PN 10 AFL 08	10	6	3/8"	M 16 x 1.5	10	49,0	19
PN 10 AFL	10	6	3/8"	M 18 x 1.5	12	50,0	22
PN 10 AFL 13	10	6	3/8"	M 22 x 1.5	15	50,5	27
PN 13 AFL	12	8	1/2"	M 22 x 1.5	15	51,5	27
PN 13 AFL 16	12	8	1/2"	M 26 x 1.5	18	54,0	32
PN 16 AFL 13	16	10	5/8"	M 22 x 1.5	15	56,0	27
PN 16 AFL	16	10	5/8"	M 26 x 1.5	18	58,5	32
PN 20 AFL	19	12	3/4"	M 30 x 2	22	66,0	36
PN 20 AFL 25	19	12	3/4"	M 36 x 2	28	67,0	41
PN 25 AFL	25	16	1"	M 36 x 2	28	75,0	41
PN 32 AFL	31	20	1 1/4"	M 45 x 2	35	88,0	50
PN 40 AFL	38	24	1 1/2"	M 52 x 2	42	92,5	60

Product versions:

PN AFL VA - Swage nipple, DKL, Stainless steel

PN AFL 45

Swage nipple, DKL angle 45°

**Application:**

Swage nipple for HD 100 to HD 400, KP and TE hoses
metric nut thread
24°/60° Universal sealing head
DKL
light
Steel
electro galvanised

2

Note: Choose the appropriate ferrule based on the hose type.

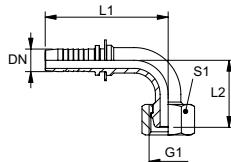
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1
PN 04 AFL 45	5	3	3/16"	M 12 x 1,5	6	56,0	15,0	14
PN 06 AFL 04 45	6	4	1/4"	M 12 x 1,5	6	62,0	17,0	14
PN 06 AFL 45	6	4	1/4"	M 14 x 1,5	8	62,5	14,5	17
PN 06 AFL 08 45	6	4	1/4"	M 16 x 1,5	10	63,0	15,5	19
PN 06 AFL 10 45	6	4	1/4"	M 18 x 1,5	12	65,0	15,5	22
PN 08 AFL 45	8	5	5/16"	M 16 x 1,5	10	64,5	15,0	19
PN 08 AFL 10 45	8	5	5/16"	M 18 x 1,5	12	65,0	15,5	22
PN 10 AFL 08 45	10	6	3/8"	M 16 x 1,5	10	72,5	19,5	19
PN 10 AFL 45	10	6	3/8"	M 18 x 1,5	12	71,0	18,0	22
PN 10 AFL 13 45	10	6	3/8"	M 22 x 1,5	15	71,5	18,5	27
PN 13 AFL 45	12	8	1/2"	M 22 x 1,5	15	79,5	18,5	27
PN 13 AFL 16 45	12	8	1/2"	M 26 x 1,5	18	90,5	24,0	32
PN 16 AFL 45	16	10	5/8"	M 26 x 1,5	18	95,0	24,0	32
PN 20 AFL 45	19	12	3/4"	M 30 x 2	22	106,0	27,0	36
PN 20 AFL 25 45	19	12	3/4"	M 36 x 2	28	124,0	29,5	41
PN 25 AFL 45	25	16	1"	M 36 x 2	28	132,0	29,5	41
PN 32 AFL 45	31	20	1.1/4"	M 45 x 2	35	159,0	38,5	50
PN 40 AFL 45	38	24	1.1/2"	M 52 x 2	42	181,5	42,5	60

Product versions:

PN AFL 45 VA - Swage nipple, DKL angle 45°, Stainless steel

PN AFL 90**Swage nipple, DKL angle 90°**

Application: Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1: metric nut thread
Sealing form 1: 24°/60° Universal sealing head
Short code: DKL
Series: light
Material: Steel
Surface: electro galvanised

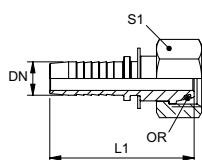


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1
PN 04 AFL 90	5	3	3/16"	M 12 x 1.5	6	48,5	29,0	14
PN 06 AFL 04 90	6	4	1/4"	M 12 x 1.5	6	57,0	30,5	14
PN 06 AFL 90	6	4	1/4"	M 14 x 1.5	8	55,0	30,0	17
PN 06 AFL 08 90	6	4	1/4"	M 16 x 1.5	10	55,0	31,0	19
PN 06 AFL 10 90	6	4	1/4"	M 18 x 1.5	12	62,5	35,0	22
PN 08 AFL 90	8	5	5/16"	M 16 x 1.5	10	58,0	30,0	19
PN 08 AFL 10 90	8	5	5/16"	M 18 x 1.5	12	58,0	30,5	22
PN 10 AFL 08 90	10	6	3/8"	M 16 x 1.5	10	63,0	38,0	19
PN 10 AFL 90	10	6	3/8"	M 18 x 1.5	12	64,0	35,0	22
PN 10 AFL 13 90	10	6	3/8"	M 22 x 1.5	15	64,0	35,5	27
PN 13 AFL 90	12	8	1/2"	M 22 x 1.5	15	72,5	39,5	27
PN 13 AFL 16 90	12	8	1/2"	M 26 x 1.5	18	83,5	49,5	32
PN 16 AFL 13 90	16	10	5/8"	M 22 x 1.5	15	87,0	49,5	27
PN 16 AFL 90	16	10	5/8"	M 26 x 1.5	18	88,0	49,5	32
PN 20 AFL 90	19	12	3/4"	M 30 x 2	22	99,5	54,5	36
PN 25 AFL 90	25	16	1"	M 36 x 2	28	127,0	66,0	41
PN 32 AFL 90	31	20	1.1/4"	M 45 x 2	35	151,5	82,0	50
PN 40 AFL 90	38	24	1.1/2"	M 52 x 2	42	176,5	95,0	60

Product versions:

PN AFL 90 VA - Swage nipple, DKL angle 90°, Stainless steel

PN AOL**Swage nipple, DKOL****Application:**

Swage nipple for HD 100 to HD 400, KP and TE hoses
metric nut thread
24° outer cone with O-ring
DKOL
ISO 8434-1
light
Steel
electro galvanised

Connection 1:**Sealing form 1:****Short code:****Standard:****Series:****Material:****Surface:**

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Note: Choose the appropriate ferrule based on the hose type.

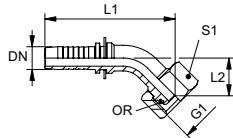
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	OR
PN 04 AOL	5	3	3/16"	M 12 x 1.5	6	45,5	14	4,0 x 1.5
PN 04 AOL 06	5	3	3/16"	M 14 x 1.5	8	45,5	17	6,0 x 1.5
PN 06 AOL 04	6	4	1/4"	M 12 x 1.5	6	46,5	14	4,0 x 1.5
PN 06 AOL	6	4	1/4"	M 14 x 1.5	8	52,0	17	6,0 x 1.5
PN 06 AOL 08	6	4	1/4"	M 16 x 1.5	10	52,0	19	7,5 x 1.5
PN 06 AOL 10	6	4	1/4"	M 18 x 1.5	12	53,0	22	9,0 x 1.5
PN 08 AOL 06	8	5	5/16"	M 14 x 1.5	8	47,0	17	6,0 x 1.5
PN 08 AOL	8	5	5/16"	M 16 x 1.5	10	52,0	19	7,5 x 1.5
PN 08 AOL 10	8	5	5/16"	M 18 x 1.5	12	53,0	22	9,0 x 1.5
PN 10 AOL 06	10	6	3/8"	M 14 x 1.5	8	50,5	17	6,0 x 1.5
PN 10 AOL 08	10	6	3/8"	M 16 x 1.5	10	51,5	19	7,5 x 1.5
PN 10 AOL	10	6	3/8"	M 18 x 1.5	12	54,5	22	9,0 x 1.5
PN 10 AOL 13	10	6	3/8"	M 22 x 1.5	15	56,5	27	12,0 x 2,0
PN 13 AOL 10	12	8	1/2"	M 18 x 1.5	12	54,5	22	9,0 x 1.5
PN 13 AOL	12	8	1/2"	M 22 x 1.5	15	57,5	27	12,0 x 2,0
PN 13 AOL 16	12	8	1/2"	M 26 x 1.5	18	59,0	32	15,0 x 2,0
PN 16 AOL 13	16	10	5/8"	M 22 x 1.5	15	58,0	27	12,0 x 2,0
PN 16 AOL	16	10	5/8"	M 26 x 1.5	18	64,0	32	15,0 x 2,0
PN 16 AOL 20	16	10	5/8"	M 30 x 2	22	64,5	36	20,0 x 2,0
PN 20 AOL 16	19	12	3/4"	M 26 x 1.5	18	66,5	32	15,0 x 2,0
PN 20 AOL	19	12	3/4"	M 30 x 2	22	71,0	36	20,0 x 2,0
PN 20 AOL 25	19	12	3/4"	M 36 x 2	28	73,0	41	26,0 x 2,0
PN 25 AOL 20	25	16	1"	M 30 x 2	22	75,5	36	20,0 x 2,0
PN 25 AOL	25	16	1"	M 36 x 2	28	81,0	41	26,0 x 2,0
PN 25 AOL 32	25	16	1"	M 45 x 2	35	85,5	50	32,0 x 2,5
PN 32 AOL 25	31	20	1.1/4"	M 36 x 2	28	87,0	41	26,0 x 2,0
PN 32 AOL	31	20	1.1/4"	M 45 x 2	35	94,5	50	32,0 x 2,5
PN 32 AOL 40	31	20	1.1/4"	M 52 x 2	42	94,5	60	38,0 x 2,5
PN 40 AOL 32	38	24	1.1/2"	M 45 x 2	35	94,0	50	32,0 x 2,5
PN 40 AOL	38	24	1.1/2"	M 52 x 2	42	98,0	60	38,0 x 2,5
PN 50 AOL 40	51	32	2"	M 52 x 2	42	112,5	60	38,0 x 2,5

Product versions:

PN AOL VA - Swage nipple, DKOL, Stainless steel

PN AOL 45**Swage nipple, DKOL angle 45°**

Application: Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1: metric nut thread
Sealing form 1: 24° outer cone with O-ring
Short code: DKOL
Standard: ISO 8434-1
Series: light
Material: Steel
Surface: electro galvanised

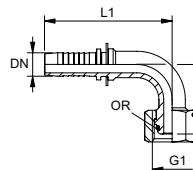


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
PN 04 AOL 45	5	3	3/16"	M 12 x 1.5	6	56,0	15,0	14	4.0 x 1.5
PN 06 AOL 04 45	6	4	1/4"	M 12 x 1.5	6	62,0	17,0	14	4.0 x 1.5
PN 06 AOL 45	6	4	1/4"	M 14 x 1.5	8	63,0	15,0	17	6.0 x 1.5
PN 06 AOL 08 45	6	4	1/4"	M 16 x 1.5	10	64,5	17,0	19	7.5 x 1.5
PN 06 AOL 10 45	6	4	1/4"	M 18 x 1.5	12	71,0	19,5	22	9.0 x 1.5
PN 08 AOL 06 45	8	5	5/16"	M 14 x 1.5	8	62,0	16,5	17	6.0 x 1.5
PN 08 AOL 45	8	5	5/16"	M 16 x 1.5	10	66,0	16,5	19	7.5 x 1.5
PN 08 AOL 10 45	8	5	5/16"	M 18 x 1.5	12	71,0	19,5	22	9.0 x 1.5
PN 10 AOL 08 45	10	6	3/8"	M 16 x 1.5	10	74,0	22,0	19	7.5 x 1.5
PN 10 AOL 45	10	6	3/8"	M 18 x 1.5	12	72,5	19,5	22	9.0 x 1.5
PN 10 AOL 13 45	10	6	3/8"	M 22 x 1.5	15	80,0	20,0	27	12.0 x 2.0
PN 13 AOL 10 45	12	8	1/2"	M 18 x 1.5	12	80,0	24,5	22	9.0 x 1.5
PN 13 AOL 45	12	8	1/2"	M 22 x 1.5	15	81,0	20,0	27	12.0 x 2.0
PN 13 AOL 16 45	12	8	1/2"	M 26 x 1.5	18	91,5	24,5	32	15.0 x 2.0
PN 16 AOL 13 45	16	10	5/8"	M 22 x 1.5	15	84,5	24,5	27	12.0 x 2.0
PN 16 AOL 45	16	10	5/8"	M 26 x 1.5	18	96,0	24,5	32	15.0 x 2.0
PN 16 AOL 20 45	16	10	5/8"	M 30 x 2	22	99,5	27,0	36	20.0 x 2.0
PN 20 AOL 16 45	19	12	3/4"	M 26 x 1.5	18	101,5	27,0	32	15.0 x 2.0
PN 20 AOL 45	19	12	3/4"	M 30 x 2	22	106,0	27,0	36	20.0 x 2.0
PN 20 AOL 25 45	19	12	3/4"	M 36 x 2	28	124,0	29,5	41	26.0 x 2.0
PN 25 AOL 20 45	25	16	1"	M 30 x 2	22	113,0	29,5	36	20.0 x 2.0
PN 25 AOL 45	25	16	1"	M 36 x 2	28	132,0	29,5	41	26.0 x 2.0
PN 25 AOL 32 45	25	16	1"	M 45 x 2	35	150,0	38,5	50	32.0 x 2.5
PN 32 AOL 25 45	31	20	1.1/4"	M 36 x 2	28	140,0	38,5	41	26.0 x 2.0
PN 32 AOL 45	31	20	1.1/4"	M 45 x 2	35	159,0	38,5	50	32.0 x 2.5
PN 40 AOL 45	38	24	1.1/2"	M 52 x 2	42	181,5	42,5	60	38.0 x 2.5

Product versions:

PN AOL 45 VA - Swage nipple, DKOL angle 45°, Stainless steel

PN AOL 90**Swage nipple, DKOL angle 90°****Application:**

Swage nipple for HD 100 to HD 400, KP and TE hoses
metric nut thread
24° outer cone with O-ring
DKOL
ISO 8434-1
light
Steel
electro galvanised

2

Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
PN 04 AOL 90	5	3	3/16"	M 12 x 1.5	6	48,5	29,0	14	4,0 x 1,5
PN 06 AOL 04 90	6	4	1/4"	M 12 x 1,5	6	57,0	30,5	14	4,0 x 1,5
PN 06 AOL 90	6	4	1/4"	M 14 x 1,5	8	55,0	30,5	17	6,0 x 1,5
PN 06 AOL 90 L 50	6	4	1/4"	M 14 x 1,5	8	55,0	50,0	17	6,0 x 1,5
PN 06 AOL 90 L 55	6	4	1/4"	M 14 x 1,5	8	55,0	55,0	17	6,0 x 1,5
PN 06 AOL 08 90	6	4	1/4"	M 16 x 1,5	10	55,0	33,0	19	7,5 x 1,5
PN 06 AOL 08 90 L 60	6	4	1/4"	M 16 x 1,5	10	55,0	60,0	19	7,5 x 1,5
PN 06 AOL 10 90	6	4	1/4"	M 18 x 1,5	12	62,5	32,0	22	9,0 x 1,5
PN 08 AOL 06 90	8	5	5/16"	M 14 x 1,5	8	54,0	31,5	17	6,0 x 1,5
PN 08 AOL 90	8	5	5/16"	M 16 x 1,5	10	58,0	31,5	19	7,5 x 1,5
PN 08 AOL 90 L 42	8	5	5/16"	M 16 x 1,5	10	58,0	42,0	19	7,5 x 1,5
PN 08 AOL 10 90	8	5	5/16"	M 18 x 1,5	12	58,0	32,5	22	9,0 x 1,5
PN 10 AOL 08 90	10	6	3/8"	M 16 x 1,5	10	63,0	40,5	19	7,5 x 1,5
PN 10 AOL 90	10	6	3/8"	M 18 x 1,5	12	64,0	37,0	22	9,0 x 1,5
PN 10 AOL 90 L 50	10	6	3/8"	M 18 x 1,5	12	64,0	50,0	22	9,0 x 1,5
PN 10 AOL 90 L 60	10	6	3/8"	M 18 x 1,5	12	64,0	60,0	22	9,0 x 1,5
PN 10 AOL 90 L 75	10	6	3/8"	M 18 x 1,5	12	64,0	75,0	22	9,0 x 1,5
PN 10 AOL 13 90	10	6	3/8"	M 22 x 1,5	15	71,5	41,5	27	12,0 x 2,0
PN 13 AOL 10 90	12	8	1/2"	M 18 x 1,5	12	71,5	50,5	22	9,0 x 1,5
PN 13 AOL 90	12	8	1/2"	M 22 x 1,5	15	72,5	41,5	27	12,0 x 2,0
PN 13 AOL 90 L 60	12	8	1/2"	M 22 x 1,5	15	88,0	60,0	27	12,0 x 2,0
PN 13 AOL 90 L 77	12	8	1/2"	M 22 x 1,5	15	72,5	77,0	27	12,0 x 2,0
PN 13 AOL 16 90	12	8	1/2"	M 26 x 1,5	18	83,5	50,5	32	15,0 x 2,0
PN 16 AOL 13 90	16	10	5/8"	M 22 x 1,5	15	87,0	50,5	27	12,0 x 2,0
PN 16 AOL 90	16	10	5/8"	M 26 x 1,5	18	88,0	50,5	32	15,0 x 2,0
PN 16 AOL 20 90	16	10	5/8"	M 30 x 2	22	93,0	54,5	36	20,0 x 2,0
PN 20 AOL 16 90	19	12	3/4"	M 26 x 1,5	18	93,5	66,0	32	15,0 x 2,0
PN 20 AOL 90	19	12	3/4"	M 30 x 2	22	99,5	54,5	36	20,0 x 2,0
PN 20 AOL 90 L 60	19	12	3/4"	M 30 x 2	22	109,0	60,0	36	20,0 x 2,0
PN 20 AOL 90 L 75	19	12	3/4"	M 30 x 2	22	111,0	75,0	36	20,0 x 2,0
PN 20 AOL 90 L 100	19	12	3/4"	M 30 x 2	22	109,0	100,0	36	20,0 x 2,0
PN 20 AOL 25 90	19	12	3/4"	M 36 x 2	28	119,0	66,0	41	26,0 x 2,0
PN 25 AOL 20 90	25	16	1"	M 30 x 2	22	106,5	66,0	36	20,0 x 2,0
PN 25 AOL 90	25	16	1"	M 36 x 2	28	127,0	66,0	41	26,0 x 2,0
PN 25 AOL 90 L 72	25	16	1"	M 36 x 2	28	125,0	72,0	41	26,0 x 2,0
PN 25 AOL 90 L 100	25	16	1"	M 36 x 2	28	125,0	100,0	41	26,0 x 2,0
PN 25 AOL 90 L 150	25	16	1"	M 36 x 2	28	125,0	150,0	41	26,0 x 2,0
PN 25 AOL 32 90	25	16	1"	M 45 x 2	35	142,5	82,0	50	32,0 x 2,5
PN 32 AOL 25 90	31	20	1.1/4"	M 36 x 2	28	135,0	82,0	41	26,0 x 2,0
PN 32 AOL 90	31	20	1.1/4"	M 45 x 2	35	151,5	82,0	50	32,0 x 2,5
PN 32 AOL 90 L 98	31	20	1.1/4"	M 45 x 2	35	144,0	98,0	50	32,0 x 2,5
PN 32 AOL 40 90	31	20	1.1/4"	M 52 x 2	42	173,0	95,0	60	38,0 x 2,5

PN AOL 90

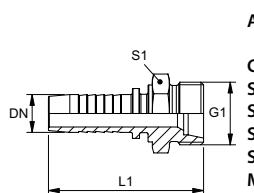
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Swage nipple, DKOL angle 90°

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
PN 40 AOL 32 90	38	24	1.1/2"	M 45 x 2	35	154,0	95,0	50	32,0 x 2,5
PN 40 AOL 90	38	24	1.1/2"	M 52 x 2	42	176,5	95,0	60	38,0 x 2,5

Product versions:

PN AOL 90 VA - Swage nipple, DKOL angle 90°, Stainless steel

PN HL**Swage nipple, CEL****Application:**

Swage nipple for HD 100 to HD 400,
KP and TE hoses
metric cylindrical outer thread
24° inner cone
CEL
ISO 8434-1
light
Steel
electro galvanised

Note: Choose the appropriate ferrule based on the hose type.

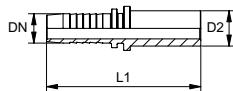
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1
PN 04 HL	5	3	3/16"	M 12 x 1.5	6	43,0	14
PN 06 HL 04	6	4	1/4"	M 12 x 1.5	6	49,0	14
PN 06 HL	6	4	1/4"	M 14 x 1.5	8	49,0	17
PN 06 HL 08	6	4	1/4"	M 16 x 1.5	10	50,0	17
PN 06 HL 10	6	4	1/4"	M 18 x 1.5	12	51,0	19
PN 08 HL	8	5	5/16"	M 16 x 1.5	10	50,0	17
PN 08 HL 10	8	5	5/16"	M 18 x 1.5	12	51,0	19
PN 08 HL 13	8	5	5/16"	M 22 x 1.5	15	52,0	24
PN 10 HL 08	10	6	3/8"	M 16 x 1.5	10	52,5	17
PN 10 HL	10	6	3/8"	M 18 x 1.5	12	52,5	19
PN 10 HL 13	10	6	3/8"	M 22 x 1.5	15	53,5	24
PN 13 HL 10	12	8	1/2"	M 18 x 1.5	12	53,5	22
PN 13 HL	12	8	1/2"	M 22 x 1.5	15	54,5	24
PN 13 HL 16	12	8	1/2"	M 26 x 1.5	18	55,5	27
PN 16 HL 13	16	10	5/8"	M 22 x 1.5	15	59,0	24
PN 16 HL	16	10	5/8"	M 26 x 1.5	18	60,0	27
PN 16 HL 20	16	10	5/8"	M 30 x 2	22	62,0	32
PN 20 HL 16	19	12	3/4"	M 26 x 1.5	18	66,5	27
PN 20 HL	19	12	3/4"	M 30 x 2	22	68,5	32
PN 20 HL 25	19	12	3/4"	M 36 x 2	28	70,0	41
PN 25 HL	25	16	1"	M 36 x 2	28	77,5	41
PN 32 HL	31	20	1.1/4"	M 45 x 2	35	91,0	46
PN 40 HL	38	24	1.1/2"	M 52 x 2	42	95,5	55

Product versions:

PN HL VA - Swage nipple, CEL, Stainless steel

PN FL**Swage nipple, BEL**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	Pipe sockets
Sealing form 1:	Cutting ring connection
Short code:	BEL
Standard:	ISO 8434-1
Series:	light
Material:	Steel
Surface:	electro galvanised



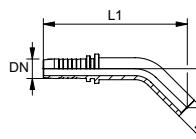
Note: Final cutting ring assembly must be carried out in the hardened pre-assembly socket (VOM...). Do not use for new designs; we recommend: PN...AOL. Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	D2 mm	L1 mm
PN 04 FL	5	3	3/16"	6,0	50,5
PN 06 FL 04	6	4	1/4"	6,0	57,5
PN 06 FL	6	4	1/4"	8,0	58,5
PN 08 FL 06	8	5	5/16"	8,0	58,0
PN 08 FL	8	5	5/16"	10,0	59,5
PN 10 FL 08	10	6	3/8"	10,0	62,0
PN 10 FL	10	6	3/8"	12,0	62,5
PN 10 FL 13	10	6	3/8"	15,0	61,0
PN 13 FL 10	12	8	1/2"	12,0	60,0
PN 13 FL	12	8	1/2"	15,0	63,0
PN 13 FL 16	12	8	1/2"	18,0	65,0
PN 16 FL	16	10	5/8"	18,0	69,5
PN 16 FL 20	16	10	5/8"	22,0	71,5
PN 20 FL 16	19	12	3/4"	18,0	74,5
PN 20 FL	19	12	3/4"	22,0	79,0
PN 20 FL 25	19	12	3/4"	28,0	79,0
PN 25 FL	25	16	1"	28,0	87,0
PN 32 FL	31	20	1.1/4"	35,0	103,0
PN 40 FL	38	24	1.1/2"	42,0	110,5

Product versions:

PN FL VA - Swage nipple, BEL, Stainless steel

PN FL MG - Swage nipple, BEL, Brass

PN FL 45**Swage nipple, BEL angle 45°****Application:**

Swage nipple for HD 100 to HD 400, KP and TE hoses
Pipe sockets
Cutting ring connection
BEL
ISO 8434-1
light
Steel
electro galvanised

Note: Final cutting ring assembly must be carried out in the hardened pre-assembly socket (VOM...). Choose the appropriate ferrule based on the hose type. Do not use for new designs; we recommend: PN...AOL...45.

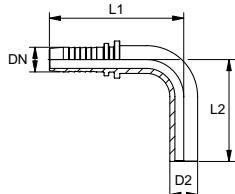
Identification	DN	Size	Inches	D2 mm	L1 mm	L2 mm
PN 04 FL 45	5	3	3/16"	6,0	68,5	19,0
PN 06 FL 04 45	6	4	1/4"	6,0	77,0	19,0
PN 06 FL 45	6	4	1/4"	8,0	71,5	19,0
PN 08 FL 06 45	8	5	5/16"	8,0	77,0	20,0
PN 08 FL 45	8	5	5/16"	10,0	80,5	23,0
PN 10 FL 08 45	10	6	3/8"	10,0	88,0	25,0
PN 10 FL 45	10	6	3/8"	12,0	88,0	25,0
PN 10 FL 13 45	10	6	3/8"	15,0	89,0	24,5
PN 13 FL 10 45	12	8	1/2"	12,0	87,0	22,0
PN 13 FL 45	12	8	1/2"	15,0	98,0	27,0
PN 13 FL 16 45	12	8	1/2"	18,0	95,5	26,0
PN 16 FL 45	16	10	5/8"	18,0	103,5	41,5
PN 16 FL 20 45	16	10	5/8"	22,0	107,0	29,0
PN 20 FL 16 45	19	12	3/4"	18,0	108,5	41,5
PN 20 FL 45	19	12	3/4"	22,0	112,0	29,0
PN 25 FL 45	25	16	1"	28,0	130,0	34,0
PN 32 FL 45	31	20	1.1/4"	35,0	155,5	41,0
PN 40 FL 45	38	24	1.1/2"	42,0	174,5	44,0

Product versions:

PN FL 45 VA - Swage nipple, BEL angle 45°, Stainless steel

PN FL 90**Swage nipple, BEL angle 90°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	Pipe sockets
Sealing form 1:	Cutting ring connection
Short code:	BEL
Standard:	ISO 8434-1
Series:	light
Material:	Steel
Surface:	electro galvanised



Note: Final cutting ring assembly must be carried out in the hardened pre-assembly socket (VOM...). Choose the appropriate ferrule based on the hose type. Do not use for new designs; we recommend: PN...AOL...90.

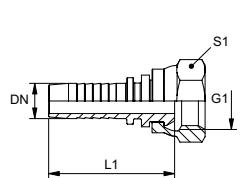
Identification	DN	Size	Inches	D2 mm	L1 mm	L2 mm
PN 04 FL 90	5	3	3/16"	6,0	47,5	41,5
PN 06 FL 04 90	6	4	1/4"	6,0	56,5	42,5
PN 06 FL 90	6	4	1/4"	8,0	56,5	43,5
PN 08 FL 06 90	8	5	5/16"	8,0	56,5	43,5
PN 08 FL 90	8	5	5/16"	10,0	58,5	44,0
PN 10 FL 08 90	10	6	3/8"	10,0	61,5	53,5
PN 10 FL 90	10	6	3/8"	12,0	62,0	52,5
PN 10 FL 13 90	10	6	3/8"	15,0	77,5	48,0
PN 13 FL 10 90	12	8	1/2"	12,0	62,0	52,5
PN 13 FL 90	12	8	1/2"	15,0	72,5	55,0
PN 13 FL 16 90	12	8	1/2"	18,0	72,5	58,5
PN 16 FL 90	16	10	5/8"	18,0	83,0	70,0
PN 16 FL 20 90	16	10	5/8"	22,0	83,0	74,0
PN 20 FL 16 90	19	12	3/4"	18,0	88,0	70,0
PN 20 FL 90	19	12	3/4"	22,0	100,0	73,5
PN 25 FL 90	25	16	1"	28,0	127,5	84,5
PN 32 FL 90	31	20	1.1/4"	35,0	149,5	106,0
PN 40 FL 90	38	24	1.1/2"	42,0	167,0	99,0

Product versions:

PN FL 90 VA - Swage nipple, BEL angle 90°, Stainless steel

PN AFS

Swage nipple, DKS

**Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

metric nut thread

24°/60° Universal sealing head

DKS

heavy

Steel

electro galvanised

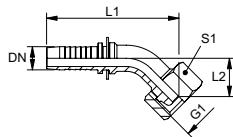
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1
PN 04 AFS 03	5	3	3/16"	M 14 x 1.5	6	44,5	17
PN 04 AFS	5	3	3/16"	M 16 x 1.5	8	44,5	19
PN 06 AFS 04	6	4	1/4"	M 16 x 1.5	8	51,5	19
PN 06 AFS	6	4	1/4"	M 18 x 1.5	10	52,5	22
PN 08 AFS 06	8	5	5/16"	M 18 x 1.5	10	52,5	22
PN 08 AFS	8	5	5/16"	M 20 x 1.5	12	52,5	24
PN 10 AFS 08	10	6	3/8"	M 20 x 1.5	12	54,0	24
PN 10 AFS	10	6	3/8"	M 22 x 1.5	14	57,0	27
PN 13 AFS	12	8	1/2"	M 24 x 1.5	16	58,0	30
PN 16 AFS	16	10	5/8"	M 30 x 2	20	66,0	36
PN 20 AFS	19	12	3/4"	M 36 x 2	25	75,5	46
PN 25 AFS	25	16	1"	M 42 x 2	30	85,5	50
PN 32 AFS	31	20	1.1/4"	M 52 x 2	38	98,0	60

PN AFS 45**Swage nipple, DKS angle 45°**

Application: Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1: metric nut thread
Sealing form 1: 24°/60° Universal sealing head
Short code: DKS
Series: heavy
Material: Steel
Surface: electro galvanised

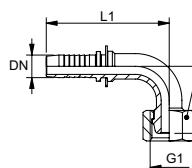


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1
PN 06 AFS 04 45	6	4	1/4"	M 16 x 1.5	8	79,0	21,0	19
PN 06 AFS 45	6	4	1/4"	M 18 x 1.5	10			
PN 08 AFS 45	8	5	5/16"	M 20 x 1.5	12			
PN 20 AFS 45	19	12	3/4"	M 36 x 2	25	129,0	39,0	46

PN AFS 90

Swage nipple, DKS angle 90°

**Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

metric nut thread

24°/60° Universal sealing head

DKS

heavy

Steel

electro galvanised

Connection 1:**Sealing form 1:****Short code:****Series:****Material:****Surface:**

2

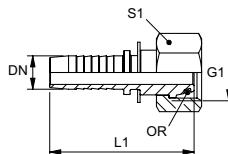
Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1
PN 06 AFS 04 90	6	4	1/4"	M 16 x 1.5	8	63,0	35,0	19
PN 08 AFS 90	8	5	5/16"	M 20 x 1.5	12			

PN AOS

Swage nipple, DKOS

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOS
Standard:	ISO 8434-1
Series:	heavy
Material:	Steel
Surface:	electro galvanised



2

Note: Choose the appropriate ferrule based on the hose type.

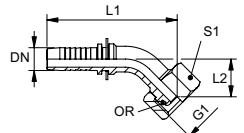
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	OR
PN 04 AOS	5	3	3/16"	M 16 x 1.5	8	47,5	19	6.0 x 1.5
PN 04 AOS 06	5	3	3/16"	M 18 x 1.5	10	48,0	22	7.5 x 1.5
PN 06 AOS 03	6	4	1/4"	M 14 x 1.5	6	53,0	17	4.0 x 1.5
PN 06 AOS 04	6	4	1/4"	M 16 x 1.5	8	54,0	19	6.0 x 1.5
PN 06 AOS	6	4	1/4"	M 18 x 1.5	10	55,0	22	7.5 x 1.5
PN 06 AOS 08	6	4	1/4"	M 20 x 1.5	12	55,0	24	9.0 x 1.5
PN 08 AOS 06	8	5	5/16"	M 18 x 1.5	10	54,0	22	7.5 x 1.5
PN 08 AOS	8	5	5/16"	M 20 x 1.5	12	55,0	24	9.0 x 1.5
PN 10 AOS 06	10	6	3/8"	M 18 x 1.5	10	54,0	22	7.5 x 1.5
PN 10 AOS 08	10	6	3/8"	M 20 x 1.5	12	56,5	24	9.0 x 1.5
PN 10 AOS	10	6	3/8"	M 22 x 1.5	14	60,0	27	10.0 x 2.0
PN 10 AOS 13	10	6	3/8"	M 24 x 1.5	16	61,0	30	12.0 x 2.0
PN 13 AOS 10	12	8	1/2"	M 22 x 1.5	14	56,0	27	10.0 x 2.0
PN 13 AOS	12	8	1/2"	M 24 x 1.5	16	61,0	30	12.0 x 2.0
PN 13 AOS 16	12	8	1/2"	M 30 x 2	20	66,5	36	16.0 x 2.5
PN 16 AOS 13	16	10	5/8"	M 24 x 1.5	16	60,5	30	12.0 x 2.0
PN 16 AOS	16	10	5/8"	M 30 x 2	20	71,0	36	16.0 x 2.5
PN 16 AOS 20	16	10	5/8"	M 36 x 2	25	74,5	46	20.0 x 2.5
PN 16 AOS 20 SW41	16	10	5/8"	M 36 x 2	25	74,5	41	20.0 x 2.5
PN 20 AOS 16	19	12	3/4"	M 30 x 2	20	78,0	36	16.0 x 2.5
PN 20 AOS	19	12	3/4"	M 36 x 2	25	81,0	46	20.0 x 2.5
PN 20 AOS SW41	19	12	3/4"	M 36 x 2	25	81,0	41	20.0 x 2.5
PN 20 AOS 25	19	12	3/4"	M 42 x 2	30	84,0	50	25.0 x 2.5
PN 25 AOS 20	25	16	1"	M 36 x 2	25	89,0	46	20.0 x 2.5
PN 25 AOS	25	16	1"	M 42 x 2	30	92,0	50	25.0 x 2.5
PN 25 AOS 32	25	16	1"	M 52 x 2	38	95,5	60	33.0 x 2.5
PN 32 AOS 25	31	20	1.1/4"	M 42 x 2	30	92,5	50	25.0 x 2.5
PN 32 AOS	31	20	1.1/4"	M 52 x 2	38	104,5	60	33.0 x 2.5
PN 40 AOS 32	38	24	1.1/2"	M 52 x 2	38	107,0	60	33.0 x 2.5

Product versions:

PN AOS VA - Swage nipple, DKOS, Stainless steel

PN AOS 45

Swage nipple, DKOS angle 45°

**Application:**

Swage nipple for HD 100 to HD 400, KP and TE hoses
metric nut thread
24° outer cone with O-ring
DKOS
ISO 8434-1
heavy
Steel
electro galvanised

2

Note: Choose the appropriate ferrule based on the hose type.

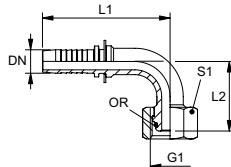
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
PN 04 AOS 45	5	3	3/16"	M 16 x 1.5	8	56,5	15,5	19	6,0 x 1.5
PN 04 AOS 06 45	5	3	3/16"	M 18 x 1.5	10	58,0	17,0	22	7,0 x 2,0
PN 06 AOS 03 45	6	4	1/4"	M 14 x 1.5	6	64,5	16,5	17	4,0 x 1,5
PN 06 AOS 04 45	6	4	1/4"	M 16 x 1.5	8	64,5	16,5	19	6,0 x 1.5
PN 06 AOS 45	6	4	1/4"	M 18 x 1.5	10	65,0	17,0	22	7,5 x 1,5
PN 06 AOS 08 45	6	4	1/4"	M 20 x 1.5	12	67,5	18,0	24	9,0 x 1,5
PN 08 AOS 06 45	8	5	5/16"	M 18 x 1.5	10	64,0	17,0	22	7,5 x 1,5
PN 08 AOS 45	8	5	5/16"	M 20 x 1.5	12	67,5	18,0	24	9,0 x 1,5
PN 10 AOS 06 45	10	6	3/8"	M 18 x 1.5	10	72,0	21,0	22	7,5 x 1,5
PN 10 AOS 08 45	10	6	3/8"	M 20 x 1.5	12	73,0	20,0	24	9,0 x 1,5
PN 10 AOS 45	10	6	3/8"	M 22 x 1.5	14	73,5	20,5	27	10,0 x 2,0
PN 10 AOS 13 45	10	6	3/8"	M 24 x 1.5	16	81,0	21,0	30	12,0 x 2,0
PN 13 AOS 10 45	12	8	1/2"	M 22 x 1.5	14	81,0	27,5	27	10,0 x 2,0
PN 13 AOS 45	12	8	1/2"	M 24 x 1.5	16	82,0	21,0	30	12,0 x 2,0
PN 16 AOS 13 45	16	10	5/8"	M 24 x 1.5	16	85,5	27,5	30	12,0 x 2,0
PN 16 AOS 45	16	10	5/8"	M 30 x 2	20	98,5	27,5	36	16,0 x 2,5
PN 16 AOS 20 45	16	10	5/8"	M 36 x 2	25	103,0	30,5	46	20,0 x 2,5
PN 20 AOS 16 45	19	12	3/4"	M 30 x 2	20	109,0	30,0	36	16,0 x 2,5
PN 20 AOS 45	19	12	3/4"	M 36 x 2	25	109,5	30,5	46	20,0 x 2,5
PN 20 AOS 45 SW41	19	12	3/4"	M 36 x 2	25	109,5	30,5	41	20,0 x 2,5
PN 25 AOS 20 45	25	16	1"	M 36 x 2	25	141,5	39,5	46	20,0 x 2,5
PN 25 AOS 45	25	16	1"	M 42 x 2	30	135,5	33,0	50	25,0 x 2,5
PN 32 AOS 45	31	20	1.1/4"	M 52 x 2	38	161,5	40,5	60	33,0 x 2,5
PN 40 AOS 32 45	38	24	1.1/2"	M 52 x 2	38	165,0	40,5	60	33,0 x 2,5

Product versions:

PN AOS 45 VA - Swage nipple, DKOS angle 45°, Stainless steel

PN AOS 90**Swage nipple, DKOS angle 90°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOS
Standard:	ISO 8434-1
Series:	heavy
Material:	Steel
Surface:	electro galvanised

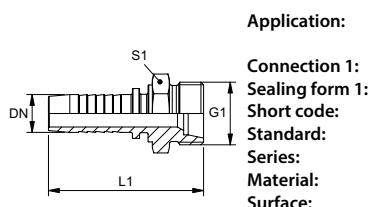


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
PN 04 AOS 90	5	3	3/16"	M 16 x 1.5	8	48,5	29,5	19	6,0 x 1,5
PN 04 AOS 90 L 37	5	3	3/16"	M 16 x 1.5	8	48,5	37,0	19	6,0 x 1,5
PN 06 AOS 03 90	6	4	1/4"	M 14 x 1.5	6	58,0	34,0	17	4,0 x 1,5
PN 06 AOS 04 90	6	4	1/4"	M 16 x 1.5	8	55,0	32,5	19	6,0 x 1,5
PN 06 AOS 90	6	4	1/4"	M 18 x 1.5	10	55,0	33,5	22	7,5 x 1,5
PN 06 AOS 08 90	6	4	1/4"	M 20 x 1.5	12	58,0	34,0	24	9,0 x 1,5
PN 08 AOS 06 90	8	5	5/16"	M 18 x 1.5	10	61,5	38,5	22	7,5 x 1,5
PN 08 AOS 90	8	5	5/16"	M 20 x 1.5	12	58,0	34,0	24	9,0 x 1,5
PN 08 AOS 90 L 45	8	5	5/16"	M 20 x 1.5	12	58,0	45,0	24	9,0 x 1,5
PN 10 AOS 06 90	10	6	3/8"	M 18 x 1.5	10	63,0	38,5	22	7,5 x 1,5
PN 10 AOS 08 90	10	6	3/8"	M 20 x 1.5	12	64,0	37,5	24	9,0 x 1,5
PN 10 AOS 90	10	6	3/8"	M 22 x 1.5	14	64,0	38,5	27	10,0 x 2,0
PN 10 AOS 13 90	10	6	3/8"	M 24 x 1.5	16	71,5	43,0	30	12,0 x 2,0
PN 13 AOS 10 90	12	8	1/2"	M 22 x 1.5	14	71,5	55,0	27	10,0 x 2,0
PN 13 AOS 90	12	8	1/2"	M 24 x 1.5	16	72,5	43,0	30	12,0 x 2,0
PN 13 AOS 16 90	12	8	1/2"	M 30 x 2	20	83,5	55,0	36	16,0 x 2,5
PN 16 AOS 13 90	16	10	5/8"	M 24 x 1.5	16	76,0	55,0	30	12,0 x 2,0
PN 16 AOS 90	16	10	5/8"	M 30 x 2	20	88,0	55,0	36	16,0 x 2,5
PN 16 AOS 90 L 100	16	10	5/8"	M 30 x 2	20	88,0	100,0	36	16,0 x 2,5
PN 16 AOS 20 90	16	10	5/8"	M 36 x 2	25	93,0	59,5	46	20,0 x 2,5
PN 20 AOS 16 90	19	12	3/4"	M 30 x 2	20	99,5	58,5	36	16,0 x 2,5
PN 20 AOS 90	19	12	3/4"	M 36 x 2	25	99,5	59,5	46	20,0 x 2,5
PN 20 AOS 90 SW41	19	12	3/4"	M 36 x 2	25	99,5	59,5	41	20,0 x 2,5
PN 20 AOS 90 L 110	19	12	3/4"	M 36 x 2	25	99,5	110,0	46	20,0 x 2,5
PN 20 AOS 90 L 130	19	12	3/4"	M 36 x 2	25	99,5	130,0	46	20,0 x 2,5
PN 20 AOS 90 L 150	19	12	3/4"	M 36 x 2	25	99,5	150,0	46	20,0 x 2,5
PN 20 AOS 25 90	19	12	3/4"	M 42 x 2	30	119,0	71,0	50	25,0 x 2,5
PN 25 AOS 20 90	25	16	1"	M 36 x 2	25	126,0	80,5	46	20,0 x 2,5
PN 25 AOS 90	25	16	1"	M 42 x 2	30	127,0	71,0	50	25,0 x 2,5
PN 32 AOS 25 90	31	20	1 1/4"	M 42 x 2	30	135,0	85,0	50	25,0 x 2,5
PN 32 AOS 90	31	20	1 1/4"	M 52 x 2	38	151,5	85,0	60	33,0 x 2,5
PN 40 AOS 32 90	38	24	1 1/2"	M 52 x 2	38	155,0	95,0	60	33,0 x 2,5

Product versions:

PN AOS 90 VA - Swage nipple, DKOS angle 90°, Stainless steel

PN HS**Swage nipple, CES****Application:**

Swage nipple for HD 100 to HD 400,
KP and TE hoses
metric cylindrical outer thread
24° inner cone
CES
ISO 8434-1
heavy
Steel
electro galvanised

2

Note: Choose the appropriate ferrule based on the hose type.

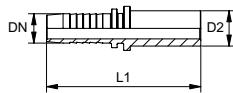
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1
PN 04 HS	5	3	3/16"	M 16 x 1.5	8	48,0	17
PN 06 HS 03	6	4	1/4"	M 14 x 1.5	6	52,0	14
PN 06 HS 04	6	4	1/4"	M 16 x 1.5	8	54,0	17
PN 06 HS	6	4	1/4"	M 18 x 1.5	10	54,0	19
PN 08 HS 06	8	5	5/16"	M 18 x 1.5	10	54,0	19
PN 08 HS	8	5	5/16"	M 20 x 1.5	12	56,0	22
PN 08 HS 13	8	5	5/16"	M 24 x 1.5	16	58,0	27
PN 10 HS 06	10	6	3/8"	M 18 x 1.5	10	55,5	19
PN 10 HS 08	10	6	3/8"	M 20 x 1.5	12	57,5	22
PN 10 HS	10	6	3/8"	M 22 x 1.5	14	59,5	24
PN 10 HS 13	10	6	3/8"	M 24 x 1.5	16	59,5	27
PN 13 HS 10	12	8	1/2"	M 22 x 1.5	14	60,5	24
PN 13 HS	12	8	1/2"	M 24 x 1.5	16	60,5	27
PN 13 HS 16	12	8	1/2"	M 30 x 2	20	64,5	32
PN 16 HS	16	10	5/8"	M 30 x 2	20	69,0	32
PN 20 HS 16	19	12	3/4"	M 30 x 2	20	75,5	32
PN 20 HS	19	12	3/4"	M 36 x 2	25	79,5	36
PN 25 HS 20	25	16	1"	M 36 x 2	25	87,5	36
PN 25 HS	25	16	1"	M 42 x 2	30	89,5	46
PN 32 HS	31	20	1.1/4"	M 52 x 2	38	104,0	55
PN 40 HS 32	38	24	1.1/2"	M 52 x 2	38	107,5	55

Product versions:

PN HS VA - Swage nipple, CES, Stainless steel

PN FS**Swage nipple, BES**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	Pipe sockets
Sealing form 1:	Cutting ring connection
Short code:	BES
Standard:	ISO 8434-1
Series:	heavy
Material:	Steel
Surface:	electro galvanised



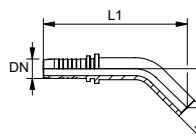
Note: Final cutting ring assembly must be carried out in the hardened pre-assembly socket (VOM...). Choose the appropriate ferrule based on the hose type. Do not use for new designs; we recommend: PN...AOS.

2

Identification	DN	Size	Inches	D2 mm	L1 mm
PN 04 FS	5	3	3/16"	8,0	51,5
PN 06 FS 04	6	4	1/4"	8,0	58,5
PN 06 FS	6	4	1/4"	10,0	60,5
PN 06 FS 08	6	4	1/4"	12,0	59,5
PN 08 FS	8	5	5/16"	12,0	60,0
PN 10 FS	10	6	3/8"	14,0	66,0
PN 10 FS 13	10	6	3/8"	16,0	70,0
PN 13 FS 08	12	8	1/2"	12,0	61,5
PN 13 FS 10	12	8	1/2"	14,0	67,0
PN 13 FS	12	8	1/2"	16,0	70,0
PN 16 FS 13	16	10	5/8"	16,0	74,5
PN 16 FS	16	10	5/8"	20,0	78,5
PN 16 FS 20	16	10	5/8"	25,0	85,0
PN 20 FS 13	19	12	3/4"	16,0	79,5
PN 20 FS 16	19	12	3/4"	20,0	86,0
PN 20 FS	19	12	3/4"	25,0	90,0
PN 25 FS 20	25	16	1"	25,0	97,0
PN 25 FS	25	16	1"	30,0	102,0
PN 25 FS 32	25	16	1"	38,0	109,5
PN 32 FS 25	31	20	1.1/4"	30,0	113,0
PN 32 FS	31	20	1.1/4"	38,0	117,0
PN 40 FS 32	38	24	1.1/2"	38,0	120,5

Product versions:

- PN FS MG - Swage nipple, BES, Brass
PN FS VA - Swage nipple, BES, Stainless steel

PN FS 45**Swage nipple, BES angle 45°****Application:**

Swage nipple for HD 100 to HD 400, KP and TE hoses
Pipe sockets
Cutting ring connection
BES
ISO 8434-1
heavy
Steel
electro galvanised

Connection 1:**Sealing form 1:****Short code:****Standard:****Series:****Material:****Surface:**

2

Note: Final cutting ring assembly must be carried out in the hardened pre-assembly socket (VOM...). Choose the appropriate ferrule based on the hose type. Do not use for new designs; we recommend: PN...AOS...45.

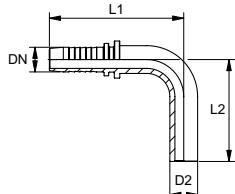
Identification	DN	Size	Inches	D2 mm	L1 mm	L2 mm
PN 04 FS 45	5	3	3/16"	8,0	59,0	20,0
PN 06 FS 45	6	4	1/4"	10,0	80,0	23,5
PN 06 FS 08 45	6	4	1/4"	12,0	82,5	22,0
PN 08 FS 45	8	5	5/16"	12,0	90,0	25,0
PN 10 FS 45	10	6	3/8"	14,0	82,5	27,0
PN 13 FS 10 45	12	8	1/2"	14,0	82,5	27,0
PN 13 FS 45	12	8	1/2"	16,0	97,0	30,0
PN 16 FS 13 45	16	10	5/8"	16,0	101,5	30,0
PN 16 FS 45	16	10	5/8"	20,0	106,0	34,0
PN 20 FS 16 45	19	12	3/4"	20,0	113,0	34,0
PN 20 FS 45	19	12	3/4"	25,0	126,0	39,0
PN 25 FS 20 45	25	16	3/4"	25,0	135,0	39,0
PN 25 FS 45	25	16	1"	30,0	146,0	44,0
PN 32 FS 25 45	31	20	1.1/4"	30,0	153,5	44,0
PN 32 FS 45	31	20	1.1/4"	38,0	172,5	51,0
PN 40 FS 32 45	38	24	1.1/2"	38,0	176,5	51,0

Product versions:

PN FS 45 VA - Swage nipple, BES angle 45°, Stainless steel

PN FS 90**Swage nipple, BES angle 90°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	Pipe sockets
Sealing form 1:	Cutting ring connection
Short code:	BES
Standard:	ISO 8434-1
Series:	heavy
Material:	Steel
Surface:	electro galvanised

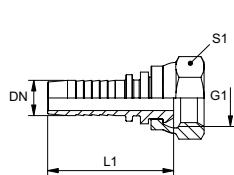


Note: Final cutting ring assembly must be carried out in the hardened pre-assembly socket (VOM...). Choose the appropriate ferrule based on the hose type. Do not use for new designs; we recommend: PN...AOS...90.

Identification	DN	Size	Inches	D2 mm	L1 mm	L2 mm
PN 04 FS 90	5	3	3/16"	8,0	59,0	37,0
PN 06 FS 04 90	6	4	1/4"	8,0	56,5	43,5
PN 06 FS 90	6	4	1/4"	10,0	56,5	44,5
PN 06 FS 08 90	6	4	1/4"	12,0	56,5	44,5
PN 08 FS 90	8	5	5/16"	12,0	57,0	46,5
PN 10 FS 90	10	6	3/8"	14,0	58,5	60,5
PN 13 FS 08 90	12	8	1/2"	12,0	58,5	46,5
PN 13 FS 10 90	12	8	1/2"	14,0	70,5	61,5
PN 13 FS 90	12	8	1/2"	16,0	71,5	63,5
PN 16 FS 13 90	16	10	5/8"	16,0	76,0	63,5
PN 16 FS 90	16	10	5/8"	20,0	83,0	80,5
PN 20 FS 16 90	19	12	3/4"	20,0	100,0	80,0
PN 20 FS 90	19	12	3/4"	25,0	100,0	85,5
PN 25 FS 20 90	25	16	1"	25,0	127,5	94,5
PN 25 FS 90	25	16	1"	30,0	127,5	99,5
PN 32 FS 25 90	31	20	1.1/4"	30,0	135,0	99,5
PN 32 FS 90	31	20	1.1/4"	38,0	156,0	105,0
PN 40 FS 32 90	38	24	1.1/2"	38,0	159,5	105,0

Product versions:

PN FS 90 VA - Swage nipple, BES angle 90°, Stainless steel

PN A**Swage nipple, DKM****Application:**

Swage nipple for HD 100 to HD 400,
KP and TE hoses
metric nut thread
60° sealing head
DKM
Standard:
DIN 3863
Material:
Steel
Surface:
electro galvanised

2

Note: Choose the appropriate ferrule based on the hose type.

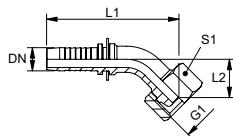
Identification	DN	Size	Inches	G1	L1 mm	S1
PN 20 A	19	12	3/4"	M 30 x 1.5	65,5	36
PN 25 A	25	16	1"	M 38 x 1.5	75,5	46
PN 25 A 32	25	16	1"	M 45 x 1.5	76,0	50
PN 32 A	31	20	1.1/4"	M 45 x 1.5	85,0	50
PN 40 A	38	24	1.1/2"	M 52 x 1.5	89,0	60
PN 50 A	51	32	2"	M 65 x 2	107,0	75
PN 60 A	60	40	2.3/8"	M 78 x 2	112,0	90

Product versions:

PN A VA - Swage nipple, DKM, Stainless steel

PN A 45**Swage nipple, DKM angle 45°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	metric nut thread
Sealing form 1:	60° sealing head
Short code:	DKM
Standard:	DIN 3863
Material:	Steel
Surface:	electro galvanised

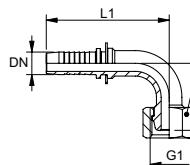


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 20 A 45	19	12	3/4"	M 30 x 1.5	119,0	29,0	36
PN 25 A 45	25	16	1"	M 38 x 1.5	148,0	39,0	46
PN 32 A 45	31	20	1.1/4"	M 45 x 1.5			
PN 40 A 45	38	24	1.1/2"	M 52 x 1.5	172,0	44,0	60
PN 50 A 45	51	32	2"	M 65 x 2	209,0	53,0	75

Product versions:

PN A 45 VA - Swage nipple, DKM angle 45°, Stainless steel

PN A 90**Swage nipple, DKM angle 90°****Application:**

Swage nipple for HD 100 to HD 400, KP and TE hoses
metric nut thread
60° sealing head
DKM
DIN 3863
Steel
electro galvanised

Connection 1:**Sealing form 1:****Short code:****Standard:****Material:****Surface:**

2

Note: Choose the appropriate ferrule based on the hose type.

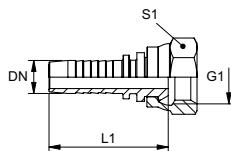
Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 20 A 90	19	12	3/4"	M 30 x 1.5	109,0	61,0	36
PN 25 A 90	25	16	1"	M 38 x 1.5	125,0	71,0	46
PN 25 A 32 90	25	16	1"	M 45 x 1.5	125,0	74,0	50
PN 32 A 90	31	20	1 1/4"	M 45 x 1.5	144,0	83,0	50
PN 40 A 90	38	24	1 1/2"	M 52 x 1.5	159,0	94,0	60
PN 50 A 90	51	32	2"	M 65 x 2	199,0	118,0	75

Product versions:

PN A 90 VA - Swage nipple, DKM angle 90°, Stainless steel

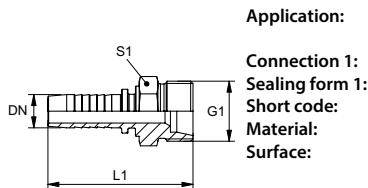
PN AM**Swage nipple, DKM-Flat**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	metric nut thread
Sealing form 1:	flat sealing
Short code:	DKM flat
Material:	Steel
Surface:	electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
PN 13 AM	12	8	1/2"	M 22 x 1.5	55,0	27

PN H**Swage nipple, AGM****Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

metric cylindrical outer thread

60° inner cone

AGM

Steel

electro galvanised

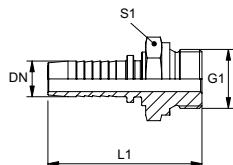
2**Note:** Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
PN 20 H	19	12	3/4"	M 30 x 1.5	72,5	32

PN HM

Swage nipple, AGM-Flat

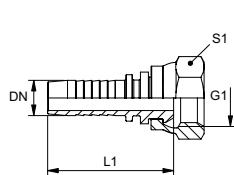
Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	metric cylindrical outer thread
Sealing form 1:	flat sealing
Short code:	AGM-Flat
Standard:	DIN 3852
Material:	Steel
Surface:	electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
PN 06 HM 02	6	4	1/4"	M 10 x 1	50,5	14
PN 06 HM	6	4	1/4"	M 14 x 1.5	53,0	19
PN 08 HM	8	5	5/16"	M 16 x 1.5	54,5	22
PN 08 HM 10	8	5	5/16"	M 18 x 1.5	56,0	24
PN 10 HM 08	10	6	3/8"	M 16 x 1.5	55,5	22
PN 10 HM	10	6	3/8"	M 18 x 1.5	57,0	24
PN 13 HM	12	8	1/2"	M 22 x 1.5	59,5	27
PN 16 HM	16	10	5/8"	M 26 x 1.5	65,0	32
PN 20 HM	19	12	3/4"	M 30 x 1.5	74,5	36
PN 25 HM	25	16	1"	M 38 x 1.5	83,0	46
PN 32 HM	31	20	1.1/4"	M 45 x 1.5	95,0	55
PN 40 HM	38	24	1.1/2"	M 52 x 1.5	101,0	60

2

PN AB**Swage nipple, DKR****Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

BSP nut thread

60° outer cone

DKR

ISO 8434-6, BS 5200

Standard:

Steel

Surface: electro galvanised

2

Note: Choose the appropriate ferrule based on the hose type.

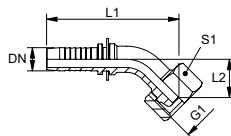
Identification	DN	Size	Inches	G1	L1 mm	S1
PN 04 AB	5	3	3/16"	G 1/8"-28	37,0	14
PN 04 AB 06	5	3	3/16"	G 1/4"-19	37,5	19
PN 06 AB 02	6	4	1/4"	G 1/8"-28	43,0	14
PN 06 AB	6	4	1/4"	G 1/4"-19	44,5	19
PN 06 AB 10	6	4	1/4"	G 3/8"-19	46,5	22
PN 08 AB 06	8	5	5/16"	G 1/4"-19	45,0	19
PN 08 AB 10	8	5	5/16"	G 3/8"-19	47,0	22
PN 08 AB 13	8	5	5/16"	G 1/2"-14	48,5	27
PN 10 AB 06	10	6	3/8"	G 1/4"-19	46,5	19
PN 10 AB	10	6	3/8"	G 3/8"-19	48,0	22
PN 10 AB 13	10	6	3/8"	G 1/2"-14	49,5	27
PN 13 AB 10	12	8	1/2"	G 3/8"-19	48,0	22
PN 13 AB	12	8	1/2"	G 1/2"-14	50,5	27
PN 13 AB 16	12	8	1/2"	G 5/8"-14	49,5	30
PN 13 AB 20	12	8	1/2"	G 3/4"-14	52,0	32
PN 16 AB 13	16	10	5/8"	G 1/2"-14	55,0	27
PN 16 AB	16	10	5/8"	G 5/8"-14	54,0	30
PN 16 AB 20	16	10	5/8"	G 3/4"-14	57,0	32
PN 16 AB 25	16	10	5/8"	G 1"-11	62,0	38
PN 20 AB 13	19	12	3/4"	G 1/2"-14	62,0	27
PN 20 AB 16	19	12	3/4"	G 5/8"-14	61,0	30
PN 20 AB	19	12	3/4"	G 3/4"-14	64,0	32
PN 20 AB 25	19	12	3/4"	G 1"-11	67,0	38
PN 25 AB	25	16	1"	G 1"-11	75,0	38
PN 25 AB 32	25	16	1"	G 1.1/4"-11	80,5	50
PN 32 AB	31	20	1.1/4"	G 1.1/4"-11	88,0	50
PN 40 AB	38	24	1.1/2"	G 1.1/2"-11	92,0	55
PN 50 AB	51	32	2"	G 2"-11	110,5	70

Product versions:

PN AB VA - Swage nipple, DKR, Stainless steel

PN AB 45**Swage nipple, DKR angle 45°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Short code:	DKR
Standard:	ISO 8434-6, BS 5200
Material:	Steel
Surface:	electro galvanised

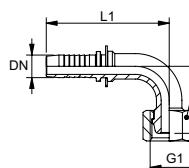


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 04 AB 45	5	3	3/16"	G 1/8"-28	54,0	14,0	14
PN 04 AB 06 45	5	3	3/16"	G 1/4"-19	54,5	12,5	19
PN 06 AB 02 45	6	4	1/4"	G 1/8"-28	62,5	14,0	14
PN 06 AB 45	6	4	1/4"	G 1/4"-19	60,5	12,5	19
PN 06 AB 10 45	6	4	1/4"	G 3/8"-19	62,0	14,0	22
PN 08 AB 06 45	8	5	5/16"	G 1/4"-19	64,0	14,5	17
PN 08 AB 10 45	8	5	5/16"	G 3/8"-19	64,0	14,5	22
PN 10 AB 06 45	10	6	3/8"	G 1/4"-19	69,5	16,5	19
PN 10 AB 45	10	6	3/8"	G 3/8"-19	69,5	16,5	22
PN 10 AB 13 45	10	6	3/8"	G 1/2"-14	70,5	17,5	27
PN 13 AB 10 45	12	8	1/2"	G 3/8"-19	78,5	17,5	22
PN 13 AB 45	12	8	1/2"	G 1/2"-14	78,5	17,5	27
PN 13 AB 16 45	12	8	1/2"	G 5/8"-14	80,5	20,5	30
PN 13 AB 20 45	12	8	1/2"	G 3/4"-14	82,5	22,5	32
PN 16 AB 45	16	10	5/8"	G 5/8"-14	96,0	24,5	30
PN 16 AB 20 45	16	10	5/8"	G 3/4"-14	97,5	26,0	32
PN 20 AB 45	19	12	3/4"	G 3/4"-14	108,0	28,5	32
PN 20 AB 25 45	19	12	3/4"	G 1"-11	111,0	31,5	38
PN 25 AB 45	25	16	1"	G 1"-11	137,0	35,0	38
PN 25 AB 32 45	25	16	1"	G 1.1/4"-11	134,5	32,0	50
PN 32 AB 45	31	20	1.1/4"	G 1.1/4"-11	165,0	45,5	50
PN 50 AB 45	51	32	2"	G 2"-11	231,5	67,0	70

Product versions:

PN AB 45 VA - Swage nipple, DKR angle 45°, Stainless steel

PN AB 90**Swage nipple, DKR angle 90°****Application:**

Swage nipple for HD 100 to HD 400,
KP and TE hoses
BSP nut thread
60° outer cone
DKR
ISO 8434-6, BS 5200
Steel
electro galvanised

2

Note: Choose the appropriate ferrule based on the hose type.

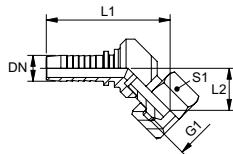
Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 04 AB 90	5	3	3/16"	G 1/8"-28	47,5	27,5	14
PN 04 AB 06 90	5	3	3/16"	G 1/4"-19	49,0	27,0	19
PN 06 AB 02 90	6	4	1/4"	G 1/8"-28	57,0	27,5	14
PN 06 AB 90	6	4	1/4"	G 1/4"-19	55,0	27,0	19
PN 06 AB 10 90	6	4	1/4"	G 3/8"-19	56,0	29,0	22
PN 08 AB 06 90	8	5	5/16"	G 1/4"-19	55,0	31,0	17
PN 08 AB 10 90	8	5	5/16"	G 3/8"-19	58,0	29,0	22
PN 08 AB 13 90	8	5	5/16"	G 1/2"-14	62,5	34,0	27
PN 10 AB 06 90	10	6	3/8"	G 1/4"-19	64,0	36,5	19
PN 10 AB 90	10	6	3/8"	G 3/8"-19	64,0	33,0	22
PN 10 AB 13 90	10	6	3/8"	G 1/2"-14	64,0	34,0	27
PN 13 AB 10 90	12	8	1/2"	G 3/8"-19	72,5	40,0	22
PN 13 AB 90	12	8	1/2"	G 1/2"-14	72,5	38,0	27
PN 13 AB 16 90	12	8	1/2"	G 5/8"-14	71,5	42,5	30
PN 13 AB 20 90	12	8	1/2"	G 3/4"-14	71,5	45,5	32
PN 16 AB 90	16	10	5/8"	G 5/8"-14	87,0	52,5	30
PN 16 AB 20 90	16	10	5/8"	G 3/4"-14	87,0	55,0	32
PN 20 AB 90	19	12	3/4"	G 3/4"-14	99,0	58,0	32
PN 20 AB 25 90	19	12	3/4"	G 1"-11	99,0	62,0	38
PN 25 AB 90	25	16	1"	G 1"-11	126,0	74,0	38
PN 25 AB 32 90	25	16	1"	G 1.1/4"-11	127,0	69,5	50
PN 32 AB 90	31	20	1.1/4"	G 1.1/4"-11	150,5	92,0	50

Product versions:

PN AB 90 VA - Swage nipple, DKR angle 90°, Stainless steel

PN ABK 45**Swage nipple, DKR Comp. angle 45°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Supplementary design information:	Compact form
Short code:	DKR
Standard:	BS 5200
Material:	Steel
Surface:	electro galvanised

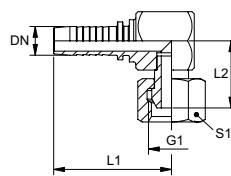


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 06 ABK 45	6	4	1/4"	G 1/4" -19	65,0	12,0	19
PN 10 ABK 45	10	6	3/8"	G 3/8" -19	60,0	19,0	22
PN 13 ABK 45	12	8	1/2"	G 1/2" -14	74,0	15,0	27
PN 16 ABK 45	16	10	5/8"	G 5/8" -14			
PN 20 ABK 45	19	12	3/4"	G 3/4" -14			
PN 25 ABK 45	25	16	1"	G 1" -11			

PN ABK 90

Swage nipple, DKR Comp. angle 90°

**Application:**

Swage nipple for HD 100 to HD 400,
KP and TE hoses
BSP nut thread
60° outer cone

**Connection 1:
Sealing form 1:
Supplementary
design informa-
tion:**

Compact form
DKR
BS 5200
Steel
Surface: electro galvanised

**Short code:
Standard:
Material:
Surface:**

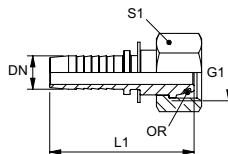
2

Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 04 ABK 90	5	3	3/16"	G 1/8"-28	47,0	17,0	14
PN 06 ABK 90	6	4	1/4"	G 1/4"-19	50,0	20,0	19
PN 06 ABK 10 90	6	4	1/4"	G 3/8"-19	53,5	23,0	22
PN 08 ABK 10 90	8	5	5/16"	G 3/8"-19	54,0	23,0	22
PN 10 ABK 06 90	10	6	3/8"	G 1/4"-19	52,0	20,0	19
PN 10 ABK 90	10	6	3/8"	G 3/8"-19	55,5	23,0	22
PN 10 ABK 13 90	10	6	3/8"	G 1/2"-14	57,6	26,0	27
PN 13 ABK 90	12	8	1/2"	G 1/2"-14	59,6	26,0	27
PN 16 ABK 90	16	10	5/8"	G 5/8"-14	64,1	27,0	30
PN 20 ABK 90	19	12	3/4"	G 3/4"-14	74,8	32,0	32
PN 25 ABK 90	25	16	1"	G 1"-11	92,2	36,0	38

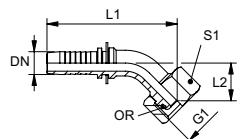
PN AOB**Swage nipple, DKOR**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Material:	Steel
Surface:	electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1	OR
PN 06 AOB	6	4	1/4"	G 1/4"-19	44,5	19	6,0 x 1,0
PN 10 AOB	10	6	3/8"	G 3/8"-19	48,5	22	8,1 x 1,6
PN 13 AOB	12	8	1/2"	G 1/2"-14	51,0	27	12,1 x 1,6
PN 16 AOB	16	10	5/8"	G 5/8"-14	54,0	30	13,1 x 1,6
PN 20 AOB	19	12	3/4"	G 3/4"-14	63,5	32	17,1 x 1,6
PN 25 AOB	25	16	1"	G 1"-11	75,5	38	22,1 x 1,6
PN 25 AOB 32	25	16	1"	G 1.1/4"-11	78,0	50	29,1 x 1,6
PN 32 AOB	31	20	1.1/4"	G 1.1/4"-11	87,0	50	29,1 x 1,6
PN 32 AOB 40	31	20	1.1/4"	G 1.1/2"-11	88,5	55	35,1 x 1,6
PN 40 AOB	38	24	1.1/2"	G 1.1/2"-11	92,0	55	35,1 x 1,6
PN 40 AOB 50	38	24	1.1/2"	G 2"-11	97,0	70	48,1 x 1,6
PN 50 AOB	51	32	2"	G 2"-11	110,0	70	48,1 x 1,6

PN AOB 45**Swage nipple, DKOR angle 45°****Application:**

Swage nipple for HD 100 to HD 400,
KP and TE hoses
BSP nut thread
60° outer cone with O-ring
DKOR
ISO 8434-6, BS 5200
Steel
electro galvanised

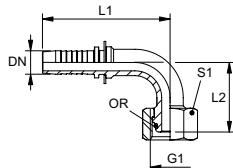
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PN 06 AOB 45	6	4	1/4"	G 1/4"-19	60,5	12,5	19	6,0 x 1,0
PN 10 AOB 45	10	6	3/8"	G 3/8"-19	69,5	16,5	22	8,1 x 1,6
PN 13 AOB 45	12	8	1/2"	G 1/2"-14	78,5	17,5	27	12,1 x 1,6
PN 16 AOB 45	16	10	5/8"	G 5/8"-14	96,0	24,5	30	13,1 x 1,6
PN 20 AOB 45	19	12	3/4"	G 3/4"-14	108,0	28,5	32	17,1 x 1,6
PN 25 AOB 45	25	16	1"	G 1"-11	137,0	35,0	38	22,1 x 1,6
PN 25 AOB 32 45	25	16	1"	G 1.1/4"-11	134,5	32,0	50	29,1 x 1,6
PN 32 AOB 45	31	20	1.1/4"	G 1.1/4"-11	165,0	45,5	50	29,1 x 1,6
PN 32 AOB 40 45	31	20	1.1/4"	G 1.1/2"-11	165,0	45,0	55	35,1 x 1,6
PN 40 AOB 45	38	24	1.1/2"	G 1.1/2"-11	187,5	49,5	55	35,1 x 1,6
PN 40 AOB 50 45	38	24	1.1/2"	G 2"-11	189,5	51,5	70	48,1 x 1,6
PN 50 AOB 45	51	32	2"	G 2"-11	231,5	67,0	70	48,1 x 1,6

PN AOB 90**Swage nipple, DKOR angle 90°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Material:	Steel
Surface:	electro galvanised

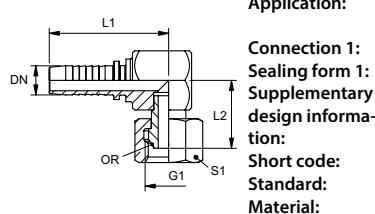


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PN 06 AOB 90	6	4	1/4"	G 1/4" -19	55,0	27,0	19	6,0 x 1,0
PN 10 AOB 90	10	6	3/8"	G 3/8" -19	64,0	33,0	22	8,1 x 1,6
PN 13 AOB 90	12	8	1/2"	G 1/2" -14	72,5	38,0	27	12,1 x 1,6
PN 16 AOB 90	16	10	5/8"	G 5/8" -14	87,0	52,5	30	13,1 x 1,6
PN 20 AOB 90	19	12	3/4"	G 3/4" -14	99,0	58,0	32	17,1 x 1,6
PN 25 AOB 90	25	16	1"	G 1" -11	126,0	74,0	38	22,1 x 1,6
PN 25 AOB 32 90	25	16	1"	G 1 1/4" -11	127,0	69,5	50	29,1 x 1,6
PN 32 AOB 90	31	20	1 1/4"	G 1 1/4" -11	150,5	92,0	50	29,1 x 1,6
PN 32 AOB 40 90	31	20	1 1/4"	G 1 1/2" -11	150,5	91,5	55	35,1 x 1,6
PN 40 AOB 90	38	24	1 1/2"	G 1 1/2" -11	175,5	105,0	55	35,1 x 1,6
PN 40 AOB 50 90	38	24	1 1/4"	G 2" -11	175,5	105,0	70	48,1 x 1,6
PN 50 AOB 90	51	32	2"	G 2" -11	216,5	135,5	70	48,1 x 1,6

PN AOBK 90

Swage nipple, DKOR Comp. angle 90°

**Application:**

Swage nipple for HD 100 to HD 400,
KP and TE hoses
BSP nut thread
60° outer cone with O-ring

**Connection 1:
Sealing form 1:
Supplementary
design informa-
tion:**

Compact form
DKOR
BS 5200
Steel
Surface: electro galvanised

**Short code:
Standard:
Material:
Surface:**

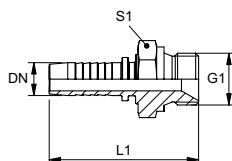
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PN 06 AOBK 90	6	4	1/4"	G 1/4"-19	46,0	22,5	19	6,0 x 1,0
PN 10 AOBK 90	10	6	3/8"	G 3/8"-19	50,0	27,0	22	8,1 x 1,6
PN 13 AOBK 90	12	8	1/2"	G 1/2"-14	54,5	28,5	27	12,1 x 1,6
PN 16 AOBK 90	16	10	5/8"	G 5/8"-14				14,1 x 1,6
PN 20 AOBK 90	19	12	3/4"	G 3/4"-14	68,5	38,5	32	22,1 x 1,6
PN 25 AOBK 90	25	16	1"	G 1"-11				22,1 x 1,6

PN HB**Swage nipple, AGR**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° inner cone
Short code:	AGR
Standard:	ISO 8434-6, BS 5200
Material:	Steel
Surface:	electro galvanised

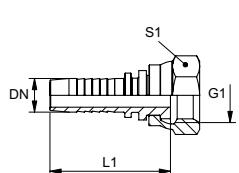


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
PN 04 HB	5	3	3/16"	G 1/8"-28	42,5	14
PN 04 HB 06	5	3	3/16"	G 1/4"-19	46,0	19
PN 06 HB 02	6	4	1/4"	G 1/8"-28	48,5	14
PN 06 HB	6	4	1/4"	G 1/4"-19	52,0	19
PN 06 HB 10	6	4	1/4"	G 3/8"-19	54,0	22
PN 06 HB 13	6	4	1/4"	G 1/2"-14	57,5	27
PN 08 HB 06	8	5	5/16"	G 1/4"-19	52,0	19
PN 08 HB 10	8	5	5/16"	G 3/8"-19	54,0	22
PN 08 HB 13	8	5	5/16"	G 1/2"-14	57,5	27
PN 10 HB 02	10	6	3/8"	G 1/8"-28	50,0	17
PN 10 HB 06	10	6	3/8"	G 1/4"-19	53,5	19
PN 10 HB	10	6	3/8"	G 3/8"-19	55,5	22
PN 10 HB 13	10	6	3/8"	G 1/2"-14	59,5	27
PN 13 HB 10	12	8	1/2"	G 3/8"-19	56,5	22
PN 13 HB	12	8	1/2"	G 1/2"-14	60,5	27
PN 13 HB 16	12	8	1/2"	G 5/8"-14	62,5	30
PN 13 HB 20	12	8	1/2"	G 3/4"-14	62,5	32
PN 16 HB 13	16	10	5/8"	G 1/2"-14	65,0	27
PN 16 HB	16	10	5/8"	G 5/8"-14	67,0	30
PN 16 HB 20	16	10	5/8"	G 3/4"-14	67,0	32
PN 20 HB	19	12	3/4"	G 3/4"-14	73,5	32
PN 20 HB 25	19	12	3/4"	G 1"-11	78,5	41
PN 25 HB	25	16	1"	G 1"-11	86,5	41
PN 25 HB 32	25	16	1"	G 1 1/4"-11	87,5	50
PN 32 HB	31	20	1 1/4"	G 1 1/4"-11	97,0	50
PN 32 HB 40	31	20	1 1/4"	G 1 1/2"-11	100,0	55
PN 40 HB 32	38	24	1 1/2"	G 1 1/4"-11	100,5	50
PN 40 HB	38	24	1 1/2"	G 1 1/2"-11	103,5	55
PN 40 HB 50	38	24	1 1/2"	G 2"-11	109,0	70
PN 50 HB	51	32	2"	G 2"-11	124,5	70

Product versions:

PN HB VA - Swage nipple, AGR, Stainless steel

PN AR**Swage nipple, DKR-Flat****Application:**

Swage nipple for HD 100 to HD 400,
KP and TE hoses
BSP nut thread
flat sealing
DKR flat
Steel
electro galvanised

Connection 1:**Sealing form 1:****Short code 1:****Material:****Surface:**

2

Note: Choose the appropriate ferrule based on the hose type. LM = long nut

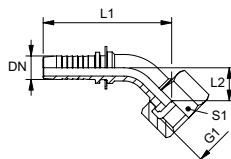
Identification	DN	Size	Inches	G1	L1 mm	S1
PN 06 AR 02	6	4	1/4"	G 1/8"-28	43,0	14
PN 06 AR	6	4	1/4"	G 1/4"-19	43,5	19
PN 06 AR 10	6	4	1/4"	G 3/8"-19	44,5	22
PN 08 AR 06	8	5	5/16"	G 1/4"-19	44,0	19
PN 08 AR 10	8	5	5/16"	G 3/8"-19	44,5	22
PN 08 AR 13	8	5	5/16"	G 1/2"-14	46,5	27
PN 10 AR 06	10	6	3/8"	G 1/4"-19	46,0	19
PN 10 AR	10	6	3/8"	G 3/8"-19	47,0	22
PN 10 AR 13	10	6	3/8"	G 1/2"-14	48,0	27
PN 10 AR 13 LM	10	6	3/8"	G 1/2"-14	48,0	27
PN 13 AR 10	12	8	1/2"	G 3/8"-19	48,5	22
PN 13 AR	12	8	1/2"	G 1/2"-14	50,0	27
PN 13 AR 16	12	8	1/2"	G 5/8"-14	49,5	30
PN 13 AR 20	12	8	1/2"	G 3/4"-14	49,5	32
PN 16 AR	16	10	5/8"	G 5/8"-14	55,0	30
PN 16 AR 20	16	10	5/8"	G 3/4"-14	54,0	32
PN 16 AR 25	16	10	5/8"	G 1"-11	56,5	41
PN 20 AR	19	12	3/4"	G 3/4"-14	61,5	32
PN 20 AR 25	19	12	3/4"	G 1"-11	63,0	41
PN 20 AR 32	19	12	3/4"	G 1.1/4"-11	66,5	50
PN 25 AR	25	16	1"	G 1"-11	72,0	38
PN 25 AR 32	25	16	1"	G 1.1/4"-11	74,5	50
PN 32 AR	31	20	1.1/4"	G 1.1/4"-11	84,5	50
PN 40 AR	38	24	1.1/2"	G 1.1/2"-11	88,0	55

Product versions:

PN AR VA - Swage nipple, DKR-Flat, Stainless steel

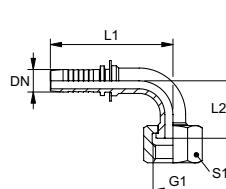
PN AR 45**Swage nipple, DKR-Flat angle 45°**

Application: Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1: BSP nut thread
Sealing form 1: flat sealing
Short code: DKR flat
Material: Steel
Surface: electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 10 AR 13 45	10	6	3/8"	G 1/2"-14	89,0	23,0	27
PN 13 AR 45	12	8	1/2"	G 1/2"-14	91,0	23,0	27
PN 16 AR 20 45	16	10	5/8"	G 3/4"-14	98,0	25,0	32
PN 20 AR 25 45	19	12	3/4"	G 1"-11	121,0	31,0	41

PN AR 90**Swage nipple, DKR-Flat angle 90°****Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

BSP nut thread

flat sealing

DKR flat

Steel

electro galvanised

Connection 1:**Sealing form 1:****Short code:****Material:****Surface:**

2

Note: Choose the appropriate ferrule based on the hose type.

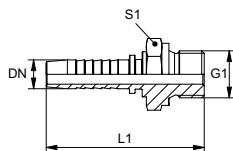
Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 06 AR 90	6	4	1/4"	G 1/4" -19	59,0	32,0	19
PN 10 AR 90	10	6	3/8"	G 3/8" -19	67,0	31,0	22
PN 10 AR 13 90	10	6	3/8"	G 1/2" -14	73,0	39,0	27
PN 13 AR 90	12	8	1/2"	G 1/2" -14	71,0	35,0	27
PN 13 AR 20 90	12	8	1/2"	G 3/4" -14	87,0	54,0	32
PN 16 AR 20 90	16	10	5/8"	G 3/4" -14	91,0	54,0	32
PN 20 AR 90	19	12	3/4"	G 3/4" -14	98,0	54,0	32
PN 20 AR 25 90	19	12	3/4"	G 1" -11	109,0	64,0	41
PN 25 AR 90	25	16	1"	G 1" -11	114,0	64,0	41
PN 32 AR 90	31	20	1.1/4"	G 1.1/4" -11	132,0	74,0	50

Product versions:

PN AR 90 VA - Swage nipple, DKR-Flat angle 90°, Stainless steel

PN HR**Swage nipple, AGR-Flat**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	BSP external thread, cylindrical
Sealing form 1:	flat sealing
Short code:	AGR-Flat
Material:	Steel
Surface:	electro galvanised

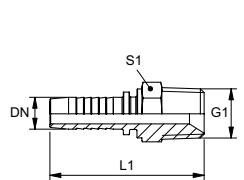


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
PN 04 HR	5	3	3/16"	G 1/8"-28	43,5	14
PN 06 HR	6	4	1/4"	G 1/4"-19	51,5	19
PN 06 HR 10	6	4	1/4"	G 3/8"-19	54,5	22
PN 08 HR 06	8	5	5/16"	G 1/4"-19	52,0	19
PN 08 HR 10	8	5	5/16"	G 3/8"-19	55,0	22
PN 10 HR	10	6	3/8"	G 3/8"-19	56,0	22
PN 10 HR 13	10	6	3/8"	G 1/2"-14	61,0	27
PN 13 HR 10	12	8	1/2"	G 3/8"-19	57,0	22
PN 13 HR	12	8	1/2"	G 1/2"-14	62,0	27
PN 13 HR 16	12	8	1/2"	G 5/8"-14	63,0	30
PN 13 HR 20	12	8	1/2"	G 3/4"-14	66,0	32
PN 16 HR	16	10	5/8"	G 5/8"-14	67,5	30
PN 16 HR 20	16	10	5/8"	G 3/4"-14	70,5	32
PN 16 HR 25	16	10	5/8"	G 1"-11	77,0	41
PN 20 HR	19	12	3/4"	G 3/4"-14	78,0	32
PN 20 HR 25	19	12	3/4"	G 1"-11	84,5	41
PN 20 HR 32	19	12	3/4"	G 1 1/4"-11	90,5	50
PN 25 HR	25	16	1"	G 1"-11	92,0	41
PN 25 HR 32	25	16	1"	G 1 1/4"-11	98,0	50
PN 32 HR	31	20	1.1/4"	G 1 1/4"-11	107,0	50
PN 40 HR	38	24	1.1/2"	G 1 1/2"-11	112,5	55
PN 50 HR	51	32	2"	G 2"-11	134,5	70

Product versions:

PN HR VA - Swage nipple, AGR-Flat, Stainless steel

PN HBK**Swage nipple, AGR-K****Application:**

Swage nipple for HD 100 to HD 400, KP and TE hoses
BSPT conical external threads
thread seal
AGR-K
Steel
electro galvanised

2

Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
PN 04 HBK 02	5	3	3/16"	R 1/8" K	43,0	12
PN 04 HBK 06	5	3	3/16"	R 1/4" K	47,5	14
PN 06 HBK 02	6	4	1/4"	R 1/8" K	49,0	12
PN 06 HBK	6	4	1/4"	R 1/4" K	53,5	14
PN 06 HBK 10	6	4	1/4"	R 3/8" K	54,0	19
PN 08 HBK 06	8	5	5/16"	R 1/4" K	53,5	14
PN 08 HBK 10	8	5	5/16"	R 3/8" K	54,0	19
PN 10 HBK 06	10	6	3/8"	R 1/4" K	56,0	14
PN 10 HBK	10	6	3/8"	R 3/8" K	56,5	19
PN 10 HBK 13	10	6	3/8"	R 1/2" K	61,0	22
PN 13 HBK 10	12	8	1/2"	R 3/8" K	58,0	19
PN 13 HBK	12	8	1/2"	R 1/2" K	62,0	22
PN 13 HBK 20	12	8	1/2"	R 3/4" K	64,5	27
PN 16 HBK 13	16	10	5/8"	R 1/2" K	67,5	22
PN 16 HBK	16	10	5/8"	R 5/8" K	70,5	24
PN 16 HBK 20	16	10	5/8"	R 3/4" K	69,0	27
PN 20 HBK	19	12	3/4"	R 3/4" K	76,5	27
PN 20 HBK 25	19	12	3/4"	R 1" K	80,5	36
PN 25 HBK	25	16	1"	R 1" K	88,5	36
PN 25 HBK 32	25	16	1"	R 1 1/4" K	91,5	46
PN 32 HBK	31	20	1.1/4"	R 1 1/4" K	101,0	46
PN 32 HBK 40	31	20	1.1/4"	R 1 1/2" K	102,0	50
PN 40 HBK	38	24	1.1/2"	R 1 1/2" K	105,5	50
PN 40 HBK 50	38	24	1.1/2"	R 2" K	113,0	65
PN 50 HBK	51	32	2"	R 2" K	127,5	65

Product versions:

PN HBK VA - Swage nipple, AGR-K, Stainless steel

PN HN

Swage nipple, AGN



Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	NPT external threads
Sealing form 1:	thread seal, additional 60° inner cone.
Short code:	AGN
Material:	Steel
Surface:	electro galvanised

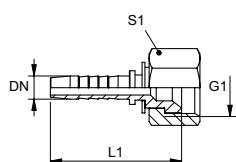
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
PN 04 HN	5	3	3/16"	1/8"-27 NPT	44,0	12
PN 04 HN 06	5	3	3/16"	1/4"-18 NPT	47,5	14
PN 06 HN 02	6	4	1/4"	1/8"-27 NPT	50,0	12
PN 06 HN	6	4	1/4"	1/4"-18 NPT	53,5	14
PN 06 HN 10	6	4	1/4"	3/8"-18 NPT	54,0	19
PN 08 HN 06	8	5	5/16"	1/4"-18 NPT	53,5	14
PN 08 HN 10	8	5	5/16"	3/8"-18 NPT	54,0	19
PN 10 HN 06	10	6	3/8"	1/4"-18 NPT	55,0	16
PN 10 HN	10	6	3/8"	3/8"-18 NPT	56,5	19
PN 10 HN 13	10	6	3/8"	1/2"-14 NPT	61,0	22
PN 13 HN 10	12	8	1/2"	3/8"-18 NPT	57,5	19
PN 13 HN	12	8	1/2"	1/2"-14 NPT	62,0	22
PN 13 HN 20	12	8	1/2"	3/4"-14 NPT	64,5	27
PN 16 HN 13	16	10	5/8"	1/2"-14 NPT	68,0	24
PN 16 HN 20	16	10	5/8"	3/4"-14 NPT	68,0	27
PN 20 HN 13	19	12	3/4"	1/2"-14 NPT	74,5	27
PN 20 HN	19	12	3/4"	3/4"-14 NPT	76,5	27
PN 20 HN 25	19	12	3/4"	1"-11.5 NPT	80,5	36
PN 25 HN 20	25	16	1"	3/4"-14 NPT	84,5	36
PN 25 HN	25	16	1"	1"-11.5 NPT	88,5	36
PN 25 HN 32	25	16	1"	1.1/4"-11.5 NPT	91,5	46
PN 32 HN	31	20	1.1/4"	1.1/4"-11.5 NPT	101,0	46
PN 40 HN	38	24	1.1/2"	1.1/2"-11.5 NPT	105,5	50
PN 50 HN	51	32	2"	2"-11.5 NPT	127,5	65

Product versions:

PN HN VA - Swage nipple, AGN, Stainless steel

PN AJ**Swage nipple, DKJ****Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

UN/UNF nut threads

74° inner cone

DKJ

ISO 8434-2

Steel

electro galvanised

Connection 1:**Sealing form 1:****Short code:****Standard:****Material:****Surface:**

2

Note: Choose the appropriate ferrule based on the hose type.

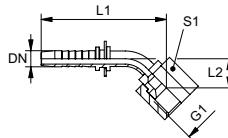
Identification	DN	Size	Inches	G1	L1 mm	S1
PN 04 AJ 06	5	3	3/16"	7/16"-20 UNF	36,0	14
PN 06 AJ	6	4	1/4"	7/16"-20 UNF	42,0	14
PN 06 AJ 08	6	4	1/4"	1/2"-20 UNF	43,0	17
PN 06 AJ 10	6	4	1/4"	9/16"-18 UNF	44,5	19
PN 06 AJ 3/8	6	4	1/4"	3/8"-24 UNF	43,5	14
PN 08 AJ	8	5	5/16"	1/2"-20 UNF	43,0	17
PN 08 AJ 10	8	5	5/16"	9/16"-18 UNF	45,0	19
PN 08 AJ 13	8	5	5/16"	3/4"-16 UNF	46,5	24
PN 10 AJ 08	10	6	3/8"	1/2"-20 UNF	47,0	17
PN 10 AJ	10	6	3/8"	9/16"-18 UNF	46,0	19
PN 10 AJ 13	10	6	3/8"	3/4"-16 UNF	48,5	24
PN 10 AJ 16	10	6	3/8"	7/8"-14 UNF	49,5	27
PN 13 AJ	12	8	1/2"	3/4"-16 UNF	48,0	24
PN 13 AJ 10	12	8	1/2"	9/16"-18 UNF	49,0	19
PN 13 AJ 16	12	8	1/2"	7/8"-14 UNF	50,5	27
PN 13 AJ 20	12	8	1/2"	1.1/16"-12 UN	51,0	32
PN 16 AJ	16	10	5/8"	7/8"-14 UNF	53,5	27
PN 16 AJ 20	16	10	5/8"	1.1/16"-12 UN	56,0	32
PN 20 AJ 14	19	12	3/4"	1.3/16"-12 UN	64,0	36
PN 20 AJ 16	19	12	3/4"	7/8"-14 UNF	62,5	27
PN 20 AJ	19	12	3/4"	1.1/16"-12 UN	63,0	32
PN 20 AJ 25	19	12	3/4"	1.5/16"-12 UN	64,0	41
PN 25 AJ 20	25	16	1"	1.1/16"-12 UN	71,0	32
PN 25 AJ	25	16	1"	1.5/16"-12 UN	72,0	41
PN 25 AJ 32	25	16	1"	1.5/8"-12 UN	74,0	50
PN 32 AJ 25	31	20	1.1/4"	1.5/16"-12 UN	83,5	41
PN 32 AJ	31	20	1.1/4"	1.5/8"-12 UN	82,0	50
PN 32 AJ 40	31	20	1.1/4"	1.7/8"-12 UN	84,0	60
PN 40 AJ 32	38	24	1.1/2"	1.5/8"-12 UN	88,0	50
PN 40 AJ	38	24	1.1/2"	1.7/8"-12 UN	87,5	60
PN 50 AJ	51	32	2"	2.1/2"-12 UN	108,0	75

Product versions:

PN AJ VA - Swage nipple, DKJ, Stainless steel

PN AJ 45**Swage nipple, DKJ angle 45°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	UN/UNF nut threads
Sealing form 1:	74° inner cone
Short code:	DKJ
Standard:	ISO 8434-2
Material:	Steel
Surface:	electro galvanised

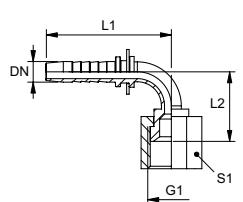


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 04 AJ 06 45	5	3	3/16"	7/16"-20 UNF	54,5	12,5	14
PN 06 AJ 45	6	4	1/4"	7/16"-20 UNF	61,5	14,0	14
PN 06 AJ 08 45	6	4	1/4"	1/2"-20 UNF	62,0	13,5	17
PN 06 AJ 10 45	6	4	1/4"	9/16"-18 UNF	62,5	14,0	19
PN 08 AJ 45	8	5	5/16"	1/2"-20 UNF	68,5	18,5	17
PN 08 AJ 10 45	8	5	5/16"	9/16"-18 UNF	64,0	15,0	19
PN 10 AJ 08 45	10	6	3/8"	1/2"-20 UNF	73,0	18,5	17
PN 10 AJ 45	10	6	3/8"	9/16"-18 UNF	70,5	17,5	19
PN 10 AJ 13 45	10	6	3/8"	3/4"-16 UNF	72,0	19,0	24
PN 10 AJ 16 45	10	6	3/8"	7/8"-14 UNF	72,5	19,5	27
PN 13 AJ 45	12	8	1/2"	3/4"-16 UNF	80,5	20,5	24
PN 13 AJ 16 45	12	8	1/2"	7/8"-14 UNF	81,5	21,5	27
PN 13 AJ 20 45	12	8	1/2"	1.1/16"-12 UN	82,5	22,5	32
PN 16 AJ 14 45	16	10	5/8"	1.3/16"-12 UN	93,5	30,0	36
PN 16 AJ 45	16	10	5/8"	7/8"-14 UNF	96,5	25,5	27
PN 16 AJ 20 45	16	10	5/8"	1.1/16"-12 UN	97,0	26,0	32
PN 20 AJ 14 45	19	12	3/4"	1.3/16"-12 UN	108,5	29,0	36
PN 20 AJ 45	19	12	3/4"	1.1/16"-12 UN	108,0	28,5	32
PN 20 AJ 25 45	19	12	3/4"	1.5/16"-12 UN	108,5	29,0	41
PN 25 AJ 14 45	25	16	1"	1.3/16"-12 UN	117,5	32,5	36
PN 25 AJ 45	25	16	1"	1.5/16"-12 UN	134,5	32,5	41
PN 25 AJ 32 45	25	16	1"	1.5/8"-12 UN	135,5	34,0	50
PN 32 AJ 45	31	20	1.1/4"	1.5/8"-12 UN	161,0	41,0	50
PN 32 AJ 40 45	31	20	1.1/4"	1.7/8"-12 UN	162,0	42,0	60
PN 40 AJ 45	38	24	1.1/2"	1.7/8"-12 UN	184,5	46,5	60
PN 50 AJ 45	51	32	2"	2.1/2"-12 UN	231,0	67,0	75

Product versions:

PN AJ 45 VA - Swage nipple, DKJ angle 45°, Stainless steel

PN AJ 90**Swage nipple, DKJ angle 90°****Application:**

Swage nipple for HD 100 to HD 400,
KP and TE hoses
UN/UNF nut threads
74° inner cone
DKJ
ISO 8434-2
Steel
electro galvanised

2

Note: Choose the appropriate ferrule based on the hose type.

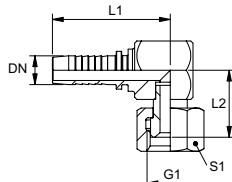
Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 04 AJ 06 90	5	3	3/16"	7/16"-20 UNF	47,5	26,0	14
PN 06 AJ 90	6	4	1/4"	7/16"-20 UNF	57,0	26,0	14
PN 06 AJ 08 90	6	4	1/4"	1/2"-20 UNF	57,0	27,0	17
PN 06 AJ 10 90	6	4	1/4"	9/16"-18 UNF	57,0	28,0	19
PN 08 AJ 90	8	5	5/16"	1/2"-20 UNF	56,5	33,0	17
PN 08 AJ 10 90	8	5	5/16"	9/16"-18 UNF	57,5	30,5	19
PN 10 AJ 08 90	10	6	3/8"	1/2"-20 UNF	66,5	37,5	17
PN 10 AJ 90	10	6	3/8"	9/16"-18 UNF	63,0	35,0	19
PN 10 AJ 13 90	10	6	3/8"	3/4"-16 UNF	63,0	37,0	24
PN 10 AJ 16 90	10	6	3/8"	7/8"-14 UNF	63,0	38,0	27
PN 13 AJ 90	12	8	1/2"	3/4"-16 UNF	71,5	42,5	24
PN 13 AJ 16 90	12	8	1/2"	7/8"-14 UNF	71,5	43,5	27
PN 13 AJ 20 90	12	8	1/2"	1.1/16"-12 UN	71,5	45,0	32
PN 16 AJ 90	16	10	5/8"	7/8"-14 UNF	87,0	54,0	27
PN 16 AJ 20 90	16	10	5/8"	1.1/16"-12 UN	87,0	54,5	32
PN 20 AJ 90	19	12	3/4"	1.1/16"-12 UN	99,0	57,5	32
PN 20 AJ 90 L 100	19	12	3/4"	1.1/16"-12 UN	99,0	100,0	32
PN 20 AJ 14 90	19	12	3/4"	1.3/16"-12 UN	108,5	69,5	36
PN 20 AJ 25 90	19	12	3/4"	1.5/16"-12 UN	99,0	58,5	41
PN 25 AJ 14 90	25	16	1"	1.3/16"-12 UN	108,5	69,5	36
PN 25 AJ 90	25	16	1"	1.5/16"-12 UN	126,0	70,5	41
PN 25 AJ 32 90	25	16	1"	1.5/8"-12 UN	126,0	72,5	50
PN 32 AJ 90	31	16	1.1/4"	1.5/8"-12 UN	150,5	86,0	50
PN 32 AJ 40 90	31	20	1.1/4"	1.7/8"-12 UN	150,5	87,0	60
PN 40 AJ 90	38	24	1.1/2"	1.7/8"-12 UN	175,5	100,5	60
PN 50 AJ 90	51	32	2"	2.1/2"-12 UN	216,5	135,0	75

Product versions:

PN AJ 90 VA - Swage nipple, DKJ angle 90°, Stainless steel

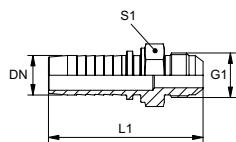
PN AJK 90**Swage nipple, DKJ Comp. angle 90°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	UN/UNF nut threads
Sealing form 1:	74° inner cone
Supplementary design information:	Compact form
Short code:	DKJ-K
Material:	Steel
Surface:	electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 06 AJK 90	6	4	1/4"	7/16"-20 UNF	50,0	17,0	14
PN 06 AJK 08 90	6	4	1/4"	1/2"-20 UNF	51,1	19,0	17
PN 06 AJK 10 90	6	4	1/4"	9/16"-18 UNF	53,5	20,0	19
PN 08 AJK 10 90	8	5	5/16"	9/16"-18 UNF	54,0	20,0	19
PN 10 AJK 90	10	6	3/8"	9/16"-18 UNF	55,5	20,0	19
PN 10 AJK 13 90	10	6	3/8"	3/4"-16 UNF	57,6	21,0	24
PN 13 AJK 90	12	8	1/2"	3/4"-16 UNF	59,6	21,0	24
PN 13 AJK 16 90	12	8	1/2"	7/8"-14 UNF	59,6	25,0	27
PN 16 AJK 90	16	10	5/8"	7/8"-14 UNF	64,1	25,0	27
PN 16 AJK 20 90	16	10	5/8"	1.1/16"-12 UN	69,8	28,0	32
PN 20 AJK 90	19	12	3/4"	1.1/16"-12 UN	74,8	28,0	32
PN 25 AJK 90	25	16	1"	1.5/16"-12 UN	92,2	34,0	41

PN HJ**Swage nipple, AGJ****Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

UN/UNF external threads

74° outer cone

AGJ

ISO 8434-2

Steel

electro galvanised

2**Note:** Choose the appropriate ferrule based on the hose type.

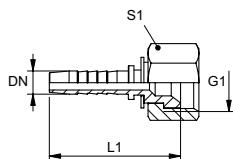
Identification	DN	Size	Inches	G1	L1 mm	S1
PN 04 HJ 06	5	3	3/16"	7/16"-20 UNF	47,5	14
PN 06 HJ	6	4	1/4"	7/16"-20 UNF	53,5	14
PN 06 HJ 08	6	4	1/4"	1/2"-20 UNF	54,0	17
PN 06 HJ 10	6	4	1/4"	9/16"-18 UNF	53,5	17
PN 08 HJ	8	5	5/16"	1/2"-20 UNF	53,5	14
PN 08 HJ 10	8	5	5/16"	9/16"-18 UNF	53,5	19
PN 08 HJ 13	8	5	5/16"	3/4"-16 UNF	58,5	22
PN 10 HJ 08	10	6	3/8"	1/2"-20 UNF	55,0	17
PN 10 HJ	10	6	3/8"	9/16"-18 UNF	55,5	19
PN 10 HJ 13	10	6	3/8"	3/4"-16 UNF	59,0	22
PN 10 HJ 16	10	6	3/8"	7/8"-14 UNF	62,5	24
PN 13 HJ	12	8	1/2"	3/4"-16 UNF	60,0	22
PN 13 HJ 16	12	8	1/2"	7/8"-14 UNF	63,5	24
PN 13 HJ 20	12	8	1/2"	1.1/16"-12 UN	67,5	27
PN 16 HJ 14	16	10	5/8"	1.3/16"-12 UN	74,5	36
PN 16 HJ	16	10	5/8"	7/8"-14 UNF	68,0	24
PN 16 HJ 20	16	10	5/8"	1.1/16"-12 UN	72,0	32
PN 20 HJ 14	19	12	3/4"	1.3/16"-12 UN	79,5	32
PN 20 HJ 16	19	12	3/4"	7/8"-14 UNF	77,0	27
PN 20 HJ	19	12	3/4"	1.1/16"-12 UN	79,0	27
PN 20 HJ 25	19	12	3/4"	1.5/16"-12 UN	80,0	34
PN 25 HJ 14	25	16	1"	1.3/16"-12 UN	89,0	36
PN 25 HJ 20	25	16	1"	1.1/16"-12 UN	87,0	34
PN 25 HJ	25	16	1"	1.5/16"-12 UN	88,5	36
PN 25 HJ 32	25	16	1"	1.5/8"-12 UN	90,0	42
PN 32 HJ	31	20	1.1/4"	1.5/8"-12 UN	100,5	46
PN 32 HJ 40	31	20	1.1/4"	1.7/8"-12 UN	105,0	50
PN 40 HJ	38	24	1.1/2"	1.7/8"-12 UN	109,0	50
PN 50 HJ	51	32	2"	2.1/2"-12 UN	133,5	65

Product versions:

PN HJ VA - Swage nipple, AGJ, Stainless steel

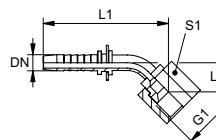
PN ALI**Swage nipple, JIS**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	metric nut thread
Sealing form 1:	60° inner cone
Standard:	JIS 8363
suitable for:	Komatsu
Material:	Steel
Surface:	electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
PN 06 ALI	6	4	1/4"	M 14 x 1.5	44,0	19
PN 06 ALI 08	6	4	1/4"	M 16 x 1.5	45,0	22
PN 08 ALI	8	5	5/16"	M 16 x 1.5	44,0	22
PN 10 ALI 06	10	6	3/8"	M 14 x 1.5	48,0	19
PN 10 ALI 08	10	6	3/8"	M 16 x 1.5	47,5	22
PN 10 ALI	10	6	3/8"	M 18 x 1.5	47,8	24
PN 13 ALI	12	8	1/2"	M 22 x 1.5	50,5	27
PN 13 ALI 16	12	8	1/2"	M 24 x 1.5	50,5	30
PN 16 ALI	16	10	5/8"	M 24 x 1.5	55,0	30
PN 20 ALI	19	12	3/4"	M 30 x 1.5	63,0	36
PN 25 ALI	25	16	1"	M 33 x 1.5	71,6	41
PN 32 ALI	31	20	1.1/4"	M 36 x 1.5	84,0	46
PN 40 ALI	38	24	1.1/2"	M 42 x 1.5	90,5	50

PN ALI 45**Swage nipple, JIS angle 45°****Application:**

Swage nipple for HD 100 to HD 400,
KP and TE hoses
metric nut thread
60° inner cone
JIS 8363
Komatsu
Steel
electro galvanised

Connection 1:
Sealing form 1:
Standard:
suitable for:
Material:
Surface:

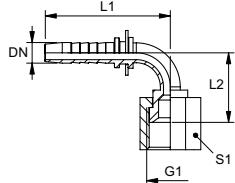
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 10 ALI 06 45	10	6	3/8"	M 14 x 1.5	77,0	18,0	19
PN 10 ALI 08 45	10	6	3/8"	M 16 x 1.5	90,0	25,0	22
PN 10 ALI 45	10	6	3/8"	M 18 x 1.5	91,0	25,0	22
PN 13 ALI 45	12	8	1/2"	M 22 x 1.5	99,0	29,0	27
PN 16 ALI 45	16	10	5/8"	M 24 x 1.5			
PN 20 ALI 45	19	12	3/4"	M 30 x 1.5	124,0	34,0	36
PN 25 ALI 45	25	16	1"	M 33 x 1.5	146,0	41,0	41

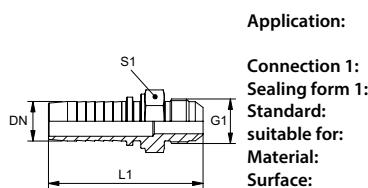
PN ALI 90**Swage nipple, JIS angle 90°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	metric nut thread
Sealing form 1:	60° inner cone
Standard:	JIS 8363
suitable for:	Komatsu
Material:	Steel
Surface:	electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 06 ALI 90	6	4	1/4"	M 14 x 1.5	63,0	31,0	17
PN 08 ALI 90	8	5	5/16"	M 16 x 1.5	70,0	42,0	19
PN 10 ALI 06 90	10	6	3/8"	M 14 x 1.5	64,0	31,0	19
PN 10 ALI 08 90	10	6	3/8"	M 16 x 1.5	72,0	42,0	22
PN 10 ALI 90	10	6	3/8"	M 18 x 1.5	73,0	42,0	22
PN 10 ALI 13 90	10	6	3/8"	M 22 x 1.5	89,0	58,0	27
PN 13 ALI 90	12	8	1/2"	M 22 x 1.5	88,0	58,0	27
PN 16 ALI 90	16	10	5/8"	M 24 x 1.5	92,0	58,0	30
PN 20 ALI 90	19	12	3/4"	M 30 x 1.5	109,0	67,0	36
PN 25 ALI 90	25	16	1"	M 33 x 1.5	118,0	70,0	41

PN HJL**Swage nipple, JIS****Application:**

Swage nipple for HD 100 to HD 400,
KP and TE hoses
metric cylindrical outer thread
60° outer cone
JIS 8363
Komatsu
Steel
electro galvanised

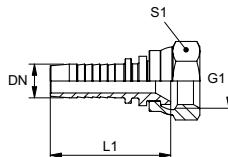
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
PN 06 HJL	6	4	1/4"	M 14 x 1.5	57,0	14
PN 06 HJL 08	6	4	1/4"	M 16 x 1.5	58,0	17
PN 10 HJL 08	10	6	3/8"	M 16 x 1.5	60,0	17
PN 10 HJL	10	6	3/8"	M 18 x 1.5	61,5	19
PN 12 HJL	12	8	1/2"	M 22 x 1.5	66,5	22
PN 13 HJL 16	12	8	1/2"	M 24 x 1.5	68,5	24
PN 16 HJL	16	10	5/8"	M 24 x 1.5	73,0	24
PN 20 HJL	19	12	3/4"	M 30 x 1.5	86,0	30
PN 25 HJL	25	16	1"	M 33 x 1.5	100,5	36
PN 32 HJL	31	20	1.1/4"	M 36 x 1.5	112,0	46
PN 40 HJL	38	24	1.1/2"	M 42 x 1.5	119,0	46

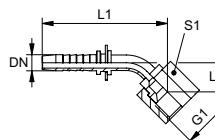
PN ARI**Swage nipple, JIS**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
suitable for:	Toyota
Connection 1:	BSP nut thread
Sealing form 1:	60° inner cone
Standard:	JIS 8363
Material:	Steel
Surface:	electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
PN 06 ARI 02	6	4	1/4"	G 1/8"-28	41,5	14
PN 06 ARI	6	4	1/4"	G 1/4"-19	42,5	19
PN 08 ARI 06	8	5	5/16"	G 1/4"-19	42,5	19
PN 08 ARI 10	8	5	5/16"	G 3/8"-19	43,0	22
PN 10 ARI	10	6	3/8"	G 3/8"-19	45,5	22
PN 13 ARI	12	8	1/2"	G 1/2"-14	48,0	27
PN 20 ARI	19	12	3/4"	G 3/4"-14	60,0	32
PN 25 ARI	25	16	1"	G 1"-11	71,0	38
PN 32 ARI	31	20	1.1/4"	G 1.1/4"-11	84,0	50
PN 40 ARI	38	24	1.1/2"	G 1.1/2"-11	88,5	55

PN ARI 45**Swage nipple, JIS angle 45°****Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

Toyota

BSP nut thread

60° inner cone

JIS 8363

Steel

electro galvanised

suitable for:**Connection 1:****Sealing form 1:****Standard:****Material:****Surface:**

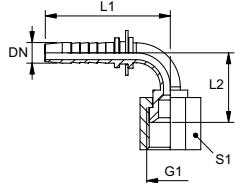
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 06 ARI 45	6	4	1/4"	G 1/4" -19	80,0	23,0	19
PN 08 ARI 10 45	8	5	5/16"	G 3/8" -19	70,0	50,0	22
PN 13 ARI 45	12	8	1/2"	G 1/2" -14	93,0	25,0	27

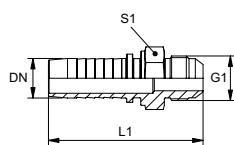
PN ARI 90**Swage nipple, JIS angle 90°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
suitable for:	Toyota
Connection 1:	BSP nut thread
Sealing form 1:	60° inner cone
Standard:	JIS 8363
Material:	Steel
Surface:	electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 06 ARI 90	6	4	1/4"	G 1/4" -19	63,0	37,0	19
PN 08 ARI 10 90	8	5	5/16"	G 3/8" -19	70,0	41,0	22
PN 13 ARI 90	12	8	1/2"	G 1/2" -14	73,0	40,0	27

PN HJR**Swage nipple, JIS****Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

Toyota

BSP external thread, cylindrical

60° outer cone

JIS 8363

Steel

electro galvanised

2

Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
PN 06 HJR	6	4	1/4"	G 1/4" -19	56,0	17
PN 08 HJR 10	8	5	5/16"	G 3/8" -19	58,5	19
PN 10 HJR	10	6	3/8"	G 3/8" -19	60,0	19
PN 12 HJR	12	8	1/2"	G 1/2" -14	63,5	22
PN 20 HJR	19	12	3/4"	G 3/4" -14	78,0	30

PN HJR 45**Swage nipple, JIS angle 45°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
suitable for:	Toyota
Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° outer cone
Standard:	JIS 8363
Material:	Steel
Surface:	electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 06 HJR 45	6	4	1/4"	G 1/4"-19	86,0	29,0	
PN 08 HJR 10 45	8	5	5/16"	G 3/8"-19			
PN 10 HJR 45	10	6	3/8"	G 3/8"-19			
PN 12 HJR 45	12	8	1/2"	G 1/2"-14	101,0	34,0	22
PN 19 HJR 45	19	12	3/4"	G 3/4"-14			

PN HJR 90

Swage nipple, JIS angle 90°



Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
suitable for:	Toyota
Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° outer cone
Standard:	JIS 8363
Material:	Steel
Surface:	electro galvanised

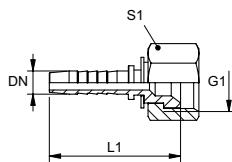
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm
PN 06 HJR 90	6	4	1/4"	G 1/4" -19		
PN 08 HJR 10 90	8	5	5/16"	G 3/8" -19		
PN 10 HJR 90	10	6	3/8"	G 3/8" -19	73,0	58,0
PN 13 HJR 90	12	8	1/2"	G 1/2" -14		
PN 20 HJR 90	19	12	3/4"	G 3/4" -14		

PN ASA**Swage nipple, SAE**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	UN/UNF nut threads
Sealing form 1:	45° inner cone
Material:	Steel
Surface:	electro galvanised

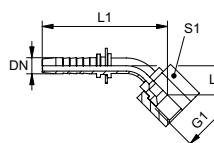


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1
PN 06 ASA 10	6	4	1/4"	5/8"-18 UNF	43,7	22
PN 10 ASA	10	6	3/8"	5/8"-18 UNF	45,7	22

PN ASA 45

Swage nipple, SAE angle 45°

**Application:**

Swage nipple for HD 100 to HD 400,
KP and TE hoses
UN/UNF nut threads
45° inner cone
Steel
electro galvanised

Connection 1:**Sealing form 1:****Material:****Surface:**

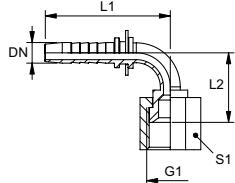
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 10 ASA 45	10	6	3/8"	5/8"-18 UNF	88,0	23,0	22

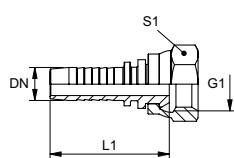
PN ASA 90**Swage nipple, SAE angle 90°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	UN/UNF nut threads
Sealing form 1:	45° inner cone
Material:	Steel
Surface:	electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 10 ASA 90	10	6	3/8"	5/8"-18 UNF	72,0	40,0	22

PN AJF**Swage nipple, ORFS****Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

UN/UNF nut threads

flat sealing

ORFS

ISO 8434-3

Steel

electro galvanised

2

Note: Choose the appropriate ferrule based on the hose type.

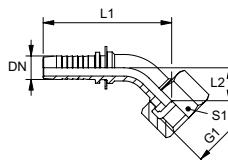
Identification	DN	Size	Inches	G1	L1 mm	S1
PN 06 AJF	6	4	1/4"	9/16"-18 UNF	49,5	17
PN 06 AJF 10	6	4	1/4"	11/16"-16 UN	51,5	22
PN 08 AJF 10	8	5	5/16"	11/16"-16 UN	51,5	22
PN 10 AJF	10	6	3/8"	11/16"-16 UN	53,0	22
PN 10 AJF 13	10	6	3/8"	13/16"-16 UN	56,0	24
PN 13 AJF	12	8	1/2"	13/16"-16 UN	57,0	24
PN 13 AJF 16	12	8	1/2"	1"-14 UNS	61,0	30
PN 13 AJF 20	12	8	1/2"	1.3/16"-12 UN	65,5	36
PN 16 AJF	16	10	5/8"	1"-14 UNS	65,5	30
PN 16 AJF 20	16	10	5/8"	1.3/16"-12 UN	70,0	36
PN 20 AJF 16	19	12	3/4"	1"-14 UNS	76,0	30
PN 20 AJF	19	12	3/4"	1.3/16"-12 UN	74,5	36
PN 20 AJF 25	19	12	3/4"	1.7/16"-12 UN	77,5	41
PN 25 AJF	25	16	1"	1.7/16"-12 UN	83,5	41
PN 32 AJF	31	20	1.1/4"	1.11/16"-12 UN	92,5	50
PN 40 AJF	38	24	1.1/2"	2"-12 UN	96,0	60

Product versions:

PN AJF VA - Swage nipple, ORFS, Stainless steel

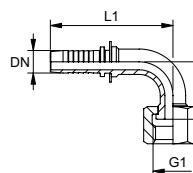
PN AJF 45**Swage nipple, ORFS angle 45°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	UN/UNF nut threads
Sealing form 1:	flat sealing
Short code:	ORFS
Standard:	ISO 8434-3
Material:	Steel
Surface:	electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 06 AJF 45	6	4	1/4"	9/16"-18 UNF	60,0	12,0	17
PN 06 AJF 10 45	6	4	1/4"	11/16"-16 UN	61,0	13,5	22
PN 08 AJF 10 45	8	5	5/16"	11/16"-16 UN	80,0	21,0	22
PN 10 AJF 45	10	6	3/8"	11/16"-16 UN	69,0	16,0	22
PN 10 AJF 13 45	10	6	3/8"	13/16"-16 UN	69,5	16,5	24
PN 13 AJF 45	12	8	1/2"	13/16"-16 UN	78,0	17,0	24
PN 13 AJF 16 45	12	8	1/2"	1"-14 UNS	80,5	19,5	30
PN 16 AJF 45	16	10	5/8"	1"-14 UNS	93,5	22,5	30
PN 20 AJF 45	19	12	3/4"	1.3/16"-12 UN	104,0	25,0	36
PN 25 AJF 45	25	16	1"	1.7/16"-12 UN	130,5	27,5	41
PN 32 AJF 45	31	20	1.1/4"	1.11/16"-12 UN	155,0	34,0	50
PN 40 AJF 45	38	24	1.1/2"	2"-12 UN	177,0	38,0	60

PN AJF 90**Swage nipple, ORFS angle 90°****Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

UN/UNF nut threads

flat sealing

ORFS

ISO 8434-3

Steel

electro galvanised

Connection 1:**Sealing form 1:****Short code:****Standard:****Material:****Surface:**

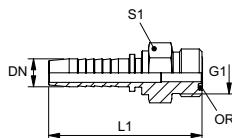
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PN 06 AJF 90	6	4	1/4"	9/16"-18 UNF	55,0	26,5	17
PN 06 AJF 90 L 58	6	4	1/4"	9/16"-18 UNF	55,0	58,0	17
PN 06 AJF 10 90	6	4	1/4"	11/16"-16 UN	55,0	28,0	22
PN 08 AJF 10 90	8	5	5/16"	11/16"-16 UN	58,0	28,0	22
PN 10 AJF 90	10	6	3/8"	11/16"-16 UN	64,0	32,0	22
PN 10 AJF 90 L 69	10	6	3/8"	11/16"-16 UN	64,0	69,0	22
PN 10 AJF 13 90	10	6	3/8"	13/16"-16 UN	64,0	33,0	24
PN 13 AJF 90	12	8	1/2"	13/16"-16 UN	72,5	37,0	24
PN 13 AJF 90 L 82	12	8	1/2"	13/16"-16 UN	72,5	82,0	24
PN 13 AJF 16 90	12	8	1/2"	1"-14 UNS	72,5	41,0	30
PN 13 AJF 20 90	12	8	1/2"	1.3/16"-12 UN	71,5	43,5	36
PN 16 AJF 90	16	10	5/8"	1"-14 UNS	88,0	47,5	30
PN 16 AJF 90 L 94	16	10	5/8"	1"-14 UNS	88,0	94,0	30
PN 16 AJF 20 90	16	10	5/8"	1.3/16"-12 UN	89,5	49,0	36
PN 20 AJF 90	19	12	3/4"	1.3/16"-12 UN	99,5	52,0	36
PN 20 AJF 90 L 96	19	12	3/4"	1.3/16"-12 UN	99,5	96,0	36
PN 20 AJF 25 90	19	12	3/4"	1.7/16"-12 UN	98,5	56,0	41
PN 25 AJF 90	25	16	1"	1.7/16"-12 UN	127,0	63,5	41
PN 25 AJF 90 L 114	25	16	1"	1.7/16"-12 UN	127,0	114,0	41
PN 32 AJF 90	31	20	1.1/4"	1.11/16"-12 UN	151,5	76,0	50
PN 32 AJF 90 L 129	31	20	1.1/4"	1.11/16"-12 UN	151,5	129,0	50
PN 40 AJF 90	38	24	1.1/2"	2"-12 UN	176,5	89,0	60
PN 40 AJF 90 L 146	38	24	1.1/2"	2"-12 UN	176,5	146,0	60

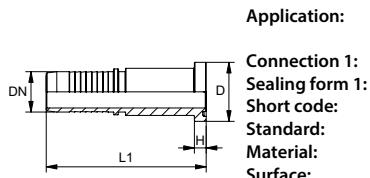
PN HJOF**Swage nipple, ORFS**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	UN/UNF external threads
Sealing form 1:	flat seal with O-ring
Short code:	ORFS
Standard:	ISO 8434-3
Material:	Steel
Surface:	electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	S1	OR
PN 06 HJOF	6	4	1/4"	9/16"-18 UNF	52,5	17	7,65 x 1,78
PN 06 HJOF 10	6	4	1/4"	11/16"-16 UN	54,0	19	9,25 x 1,78
PN 08 HJOF 10	8	5	5/16"	11/16"-16 UN	54,0	19	9,25 x 1,78
PN 10 HJOF	10	6	3/8"	11/16"-16 UN	56,0	19	9,25 x 1,78
PN 10 HJOF 13	10	6	3/8"	13/16"-16 UN	58,5	22	12,42 x 1,78
PN 10 HJOF 16	10	6	3/8"	1"-14 UNS	62,0	27	15,60 x 1,78
PN 13 HJOF	12	8	1/2"	13/16"-16 UN	60,0	22	12,42 x 1,78
PN 13 HJOF 16	12	8	1/2"	1"-14 UNS	63,5	27	15,60 x 1,78
PN 13 HJOF 20	12	8	1/2"	13/16"-12 UN	66,5	32	18,77 x 1,78
PN 16 HJOF	16	10	5/8"	1"-14 UNS	68,0	27	15,60 x 1,78
PN 16 HJOF 20	16	10	5/8"	1.3/16"-12 UN	71,0	32	18,77 x 1,78
PN 20 HJOF	19	12	3/4"	1.3/16"-12 UN	78,0	32	18,77 x 1,78
PN 20 HJOF 25	19	12	3/4"	1.7/16"-12 UN	82,5	41	23,52 x 1,78
PN 25 HJOF	25	16	1"	1.7/16"-12 UN	90,5	41	23,52 x 1,78
PN 32 HJOF	31	20	1.1/4"	1.11/16"-12 UN	101,5	46	29,87 x 1,78
PN 40 HJOF	38	24	1.1/2"	2"-12 UN	109,0	55	37,82 x 1,78

PN SF**Swage nipple, SFL****Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

SAE flange connection 3000 PSI

flat seal with SF O-ring

SFL

SAE J518, ISO 6162-1

Steel

electro galvanised

2**Note:** Choose the appropriate ferrule based on the hose type.

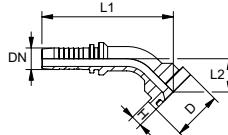
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PN 13 SF	12	8	1/2"	1/2"	30,2	6,80	80,5
PN 13 SF 20	12	8	1/2"	3/4"	38,1	6,80	85,5
PN 16 SF 13	16	10	5/8"	1/2"	30,2	6,80	85,0
PN 16 SF 20	16	10	5/8"	3/4"	38,1	6,80	90,0
PN 16 SF 25	16	10	5/8"	1"	44,4	8,10	97,5
PN 20 SF	19	12	3/4"	3/4"	38,1	6,80	96,5
PN 20 SF 25	19	12	3/4"	1"	44,4	8,10	99,5
PN 25 SF 20	25	16	1"	3/4"	38,1	6,80	104,5
PN 25 SF	25	16	1"	1"	44,4	8,10	110,5
PN 25 SF 32	25	16	1"	1.1/4"	50,8	8,10	113,5
PN 32 SF 25	31	20	1.1/4"	1"	44,4	8,10	118,0
PN 32 SF	31	20	1.1/4"	1.1/4"	50,8	8,10	125,5
PN 32 SF 40	31	20	1.1/4"	1.1/2"	60,3	8,10	128,5
PN 40 SF 32	38	24	1.1/2"	1.1/4"	50,8	8,10	129,0
PN 40 SF	38	24	1.1/2"	1.1/2"	60,3	8,10	135,0
PN 40 SF 50	38	24	1.1/2"	2"	71,4	9,60	138,0
PN 50 SF 40	51	32	2"	1.1/2"	60,3	8,10	149,5
PN 50 SF	51	32	2"	2"	71,4	9,60	153,0
PN 50 SF 60	51	32	2"	2.1/2"	84,0	9,60	156,0
PN 60 SF 50	60	40	2.3/8"	2"	71,4	9,60	155,5
PN 60 SF	60	40	2.3/8"	2.1/2"	84,0	9,60	158,5
PN 76 SF	76	48	3"	3"	101,6	9,53	150,0
PN 76 SF 60	76	48	3"	2.1/2"	84,0	9,53	166,0

Product versions:

PN SF VA - Swage nipple, SFL, Stainless steel

PN SF 45**Swage nipple, SFL angle 45°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	SAE flange connection 3000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFL
Standard:	SAE J518, ISO 6162-1
Material:	Steel
Surface:	electro galvanised

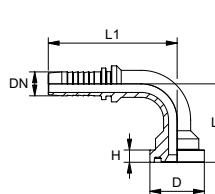


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PN 13 SF 45	12	8	1/2"	1/2"	30,2	6,80	81,0	21,0
PN 13 SF 20 45	12	8	1/2"	3/4"	38,1	6,80	84,5	24,5
PN 16 SF 13 45	16	10	5/8"	1/2"	30,2	6,80	100,0	26,5
PN 16 SF 20 45	16	10	5/8"	3/4"	38,1	6,80	96,5	27,5
PN 20 SF 45	19	12	3/4"	3/4"	38,1	6,80	107,5	28,0
PN 20 SF 25 45	19	12	3/4"	1"	44,4	8,10	109,5	30,0
PN 25 SF 20 45	25	16	1"	3/4"	38,1	6,70	128,0	30,0
PN 25 SF 45	25	16	1"	1"	44,4	8,00	132,0	30,5
PN 25 SF 32 45	25	16	1"	1 1/4"	50,8	8,10	134,0	32,0
PN 32 SF 25 45	31	20	1 1/4"	1"	44,4	8,10	156,0	41,0
PN 32 SF 45	31	20	1 1/4"	1 1/4"	50,8	8,10	156,0	36,0
PN 32 SF 40 45	31	20	1 1/4"	1 1/2"	60,3	8,10	160,0	40,0
PN 40 SF 45	38	24	1 1/2"	1 1/2"	60,3	8,10	184,0	46,0
PN 40 SF 50 45	38	24	1 1/2"	2"	71,4	9,60	184,0	46,0
PN 50 SF 40 45	51	32	2"	1 1/2"	60,3	8,10	182,0	42,0
PN 50 SF 45	51	32	2"	2"	71,4	9,60	219,0	50,0
PN 50 SF 60 45	51	32	2"	2 1/2"	84,0	9,60	212,0	57,0
PN 60 SF 45	60	40	2 3/8"	2 1/2"	84,0	9,60	237,0	50,0
PN 60 SF 45 L 60	60	40	2 3/8"	2 1/2"	84,0	9,60	237,0	60,0
PN 76 SF 60 45	76	48	3"	2 1/2"	84,0	9,53	230,0	56,3
PN 76 SF 45	76	48	3"	3"	101,6	9,53	228,0	55,0

Product versions:

PN SF 45 VA - Swage nipple, SFL angle 45°, Stainless steel

PN SF 90**Swage nipple, SFL angle 90°****Application:**

Swage nipple for HD 100 to HD 400, KP and TE hoses

SAE flange connection 3000 PSI
flat seal with SF O-ring

SFL

SAE J518, ISO 6162-1

Steel

electro galvanised

2

Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PN 13 SF 90	12	8	1/2"	1/2"	30,2	6,80	71,5	43,5
PN 13 SF 20 90	12	8	1/2"	3/4"	38,1	6,80	71,5	48,5
PN 13 SF 25 90	12	8	1/2"	1"	44,5	8,10	94,0	65,0
PN 16 SF 13 90	16	10	5/8"	1/2"	30,2	6,80	91,0	56,0
PN 16 SF 20 90	16	10	5/8"	3/4"	38,1	6,80	87,0	55,0
PN 16 SF 25 90	16	10	5/8"	1"	44,5	8,10	106,0	66,0
PN 20 SF 90	19	12	3/4"	3/4"	38,1	6,80	99,0	57,0
PN 20 SF 25 90	19	12	3/4"	1"	44,5	8,10	99,0	60,0
PN 20 SF 32 90	19	12	3/4"	1.1/4"	50,8	8,10	121,0	74,0
PN 25 SF 20 90	25	16	1"	3/4"	38,1	6,80	115,0	66,0
PN 25 SF 90	25	16	1"	1"	44,5	8,10	126,0	67,5
PN 25 SF 32 90	25	16	1"	1.1/4"	50,8	8,10	126,0	70,0
PN 25 SF 40 90	25	16	1"	1.1/2"	60,3	8,10	148,0	95,0
PN 32 SF 25 90	31	20	1.1/4"	1"	44,5	8,10	134,0	74,0
PN 32 SF 90	31	20	1.1/4"	1.1/4"	50,8	8,10	150,5	79,0
PN 32 SF 90 L 88	31	20	1.1/4"	1.1/4"	50,8	8,10	150,5	88,0
PN 32 SF 90 L 120	31	20	1.1/4"	1.1/4"	50,8	8,10	150,5	120,0
PN 32 SF 40 90	31	20	1.1/4"	1.1/2"	60,3	8,10	150,5	84,5
PN 40 SF 90	38	24	1.1/2"	1.1/2"	60,3	8,10	169,0	99,0
PN 40 SF 90 L 80	38	24	1.1/2"	1.1/2"	60,3	8,10	169,0	80,0
PN 40 SF 90 L 124	38	24	1.1/2"	1.1/2"	60,3	8,10	169,0	124,0
PN 40 SF 90 L 144	38	24	1.1/2"	1.1/2"	60,3	8,10	169,0	144,0
PN 40 SF 90 L 150	38	24	1.1/2"	1.1/2"	60,3	8,10	169,0	150,0
PN 40 SF 50 90	38	24	1.1/2"	2"	71,4	9,60	175,5	100,0
PN 40 SF 50 90 L 150	38	24	1.1/2"	2"	71,4	9,60	175,5	150,0
PN 50 SF 40 90	51	32	2"	1.1/2"	60,3	8,10	197,0	116,0
PN 50 SF 40 90 L 115	51	32	2"	1.1/2"	60,3	8,10	197,0	115,0
PN 50 SF 90	51	32	2"	2"	71,4	9,60	219,5	115,5
PN 50 SF 90 L 120	51	32	2"	2"	71,4	9,60	219,5	120,0
PN 50 SF 90 L 140	51	32	2"	2"	71,4	9,60	219,5	140,0
PN 50 SF 90 L 160	51	32	2"	2"	71,4	9,60	216,5	160,0
PN 50 SF 90 L 170	51	32	2"	2"	71,4	9,60	219,5	170,0
PN 50 SF 90 L 220	51	32	2"	2"	71,4	9,60	219,5	220,0
PN 50 SF 60 90	51	32	2"	2.1/2"	84,1	9,60	198,0	122,0
PN 50 SF 60 90 L 200	51	32	2"	2.1/2"	84,1	9,60	168,0	200,0
PN 60 SF 50 90	60	40	2.3/8"	2"	71,4	9,60	223,0	115,5
PN 60 SF 90	60	40	2.3/8"	2.1/2"	84,1	9,60	237,0	128,0
PN 60 SF 90 L 118	60	40	2.3/8"	2.1/2"	84,1	9,60	237,0	118,0
PN 76 SF 90	76	48	3"	3"	101,6	9,53	230,0	135,0

PN SF 90

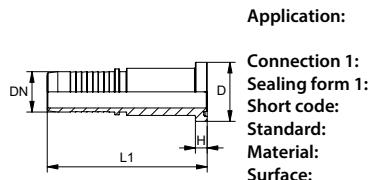
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Swage nipple, SFL angle 90°

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PN 76 SF 90 L 120	76	48	3"	3"	101,6	9,53	240,0	120,0

Product versions:

PN SF 90 VA - Swage nipple, SFL angle 90°, Stainless steel

PN SF6**Swage nipple, SFS****Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

SAE flange connection 6000 PSI

flat seal with SF O-ring

SFS

SAE J518, ISO 6162-2

Steel

electro galvanised

2

Note: Choose the appropriate ferrule based on the hose type.

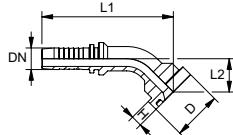
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PN 13 SF6	12	8	1/2"	1/2"	31,8	7,8	81,5
PN 13 SF6 20	12	8	1/2"	3/4"	41,3	8,8	89,5
PN 16 SF6 13	16	10	5/8"	1/2"	31,8	7,8	86,0
PN 16 SF6 20	16	10	5/8"	3/4"	41,3	8,8	97,0
PN 16 SF6 25	16	10	5/8"	1"	47,6	9,6	104,0
PN 20 SF6 13	19	12	3/4"	1/2"	31,8	7,8	93,5
PN 20 SF6	19	12	3/4"	3/4"	41,3	8,8	104,5
PN 20 SF6 25	19	12	3/4"	1"	47,6	9,6	109,0
PN 25 SF6 20	25	16	1"	3/4"	41,3	8,8	112,5
PN 25 SF6	25	16	1"	1"	47,6	9,6	121,5
PN 25 SF6 32	25	16	1"	1.1/4"	54,0	10,4	126,0
PN 32 SF6 25	31	20	1.1/4"	1"	47,6	9,6	131,5
PN 32 SF6	31	20	1.1/4"	1.1/4"	54,0	10,4	138,0
PN 32 SF6 40	31	20	1.1/4"	1.1/2"	63,5	12,7	142,5
PN 40 SF6	38	24	1.1/2"	1.1/2"	63,5	12,7	150,5
PN 40 SF6 32	38	24	1.1/2"	1.1/4"	54,0	10,4	141,5
PN 40 SF6 50	38	24	1.1/2"	2"	79,4	12,7	155,0
PN 50 SF6	51	32	2"	2"	79,4	12,7	174,0

Product versions:

PN SF6 VA - Swage nipple, SFS, Stainless steel

PN SF6 45**Swage nipple, SFS angle 45°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Material:	Steel
Surface:	electro galvanised

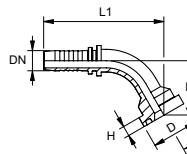


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PN 13 SF6 45	12	8	1/2"	1/2"	31,8	7,8	82,0	22,0
PN 13 SF6 20 45	12	8	1/2"	3/4"	41,3	8,8	87,5	27,5
PN 16 SF6 13 45	16	10	5/8"	1/2"	31,8	7,8	105,0	29,0
PN 16 SF6 20 45	16	10	5/8"	3/4"	41,3	8,8	100,5	30,5
PN 16 SF6 25 45	16	10	5/8"	1"	47,6	9,6	123,0	33,0
PN 20 SF6 45	19	12	3/4"	3/4"	41,3	8,8	110,0	30,5
PN 20 SF6 25 45	19	12	3/4"	1"	47,6	9,6	114,5	35,0
PN 25 SF6 20 45	25	16	1"	3/4"	41,3	8,8	129,0	31,0
PN 25 SF6 45	25	16	1"	1"	47,6	9,6	137,0	35,5
PN 25 SF6 32 45	25	16	1"	1 1/4"	54,0	10,4	142,0	40,5
PN 32 SF6 45	31	20	1 1/4"	1 1/4"	54,0	10,4	164,0	44,0
PN 32 SF6 40 45	31	20	1 1/4"	1 1/2"	63,5	12,7	170,0	50,5
PN 40 SF6 32 45	38	24	1 1/2"	1 1/4"	54,0	10,4	168,5	44,0
PN 40 SF6 45	38	24	1 1/2"	1 1/2"	63,5	12,7	190,0	52,0
PN 40 SF6 50 45	38	24	1 1/2"	2"	79,4	12,7	201,0	63,5
PN 50 SF6 45	51	32	2"	2"	79,4	12,7	236,0	67,5

Product versions:

PN SF6 45 VA - Swage nipple, SFS angle 45°, Stainless steel

PN SF6 60**Swage nipple, SFS angle 60°****Application:**

Swage nipple for HD 100 to HD 400, KP and TE hoses
SAE flange connection 6000 PSI
flat seal with SF O-ring
SFS
SAE J518, ISO 6162-2
Steel
electro galvanised

Connection 1:**Sealing form 1:****Short code:****Standard:****Material:****Surface:**

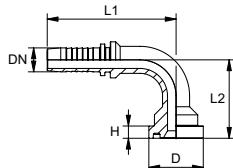
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PN 20 SF6 25 60 L 80	19	12	3/4"	1"	47,6	9,5	141,0	80,0

PN SF6 90**Swage nipple, SFS angle 90°**

Application: Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1: SAE flange connection 6000 PSI
Sealing form 1: flat seal with SF O-ring
Short code: SFS
Standard: SAE J518, ISO 6162-2
Material: Steel
Surface: electro galvanised

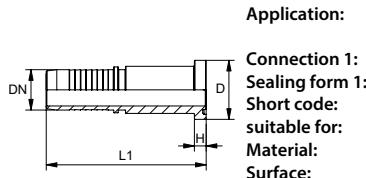


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PN 13 SF6 90	12	8	1/2"	1/2"	31,8	7,8	71,5	44,5
PN 13 SF6 20 90	12	8	1/2"	3/4"	41,3	8,8	71,5	52,5
PN 16 SF6 13 90	16	10	5/8"	1/2"	31,8	7,8	91,0	60,0
PN 16 SF6 20 90	16	10	5/8"	3/4"	41,3	8,8	87,0	59,0
PN 16 SF6 25 90	16	10	5/8"	1"	47,6	9,6	106,0	72,0
PN 20 SF6 13 90	19	12	3/4"	1/2"	31,8	7,8	97,0	61,0
PN 20 SF6 90	19	12	3/4"	3/4"	41,3	8,8	99,0	61,0
PN 20 SF6 25 90	19	12	3/4"	1"	47,6	9,6	99,0	67,0
PN 25 SF6 20 90	25	16	1"	3/4"	41,3	8,8	115,0	67,0
PN 25 SF6 90	25	16	1"	1"	47,6	9,6	126,0	74,5
PN 25 SF6 32 90	25	16	1"	1.1/4"	54,0	10,4	126,0	81,5
PN 32 SF6 90 L 80	31	20	1.1/4"	1.1/4"	54,0	10,4	150,5	80,0
PN 32 SF6 25 90	31	20	1.1/4"	1"	47,6	9,6	134,0	79,0
PN 32 SF6 90	31	20	1.1/4"	1.1/4"	54,0	10,4	150,5	90,5
PN 32 SF6 40 90	31	20	1.1/4"	1.1/2"	63,5	12,7	150,5	99,0
PN 40 SF6 32 90 L 120	38	24	1.1/2"	1.1/4"	54,0	10,4	155,0	120,0
PN 40 SF6 90	38	24	1.1/2"	1.1/2"	63,5	12,7	175,5	108,5
PN 40 SF6 50 90	38	24	1.1/2"	2"	79,4	12,7	175,5	124,5
PN 50 SF6 90	51	32	2"	2"	79,4	12,7	219,5	140,0

Product versions:

PN SF6 90 VA - Swage nipple, SFS angle 90°, Stainless steel

PN SF9**Swage nipple, SFS-CAT****Application:**

Swage nipple for HD 100 to HD 400,
KP and TE hoses
SAE flange connection 6000 PSI
flat seal with SF O-ring
SFS-CAT
Caterpillar
Steel
electro galvanised

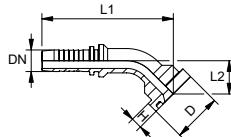
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PN 20 SF9	19	12	3/4"	3/4"	41,3	14,6	110,0
PN 20 SF9 25	19	12	3/4"	1"	47,6	14,6	114,5
PN 25 SF9	25	16	1"	1"	47,6	14,6	127,0
PN 25 SF9 32	25	16	1"	1.1/4"	54,0	14,6	131,5
PN 32 SF9	31	20	1.1/4"	1.1/4"	54,0	14,6	143,5
PN 32 SF9 40	31	20	1.1/4"	1.1/2"	63,5	14,6	148,0
PN 40 SF9	38	24	1.1/2"	1.1/2"	63,5	14,6	156,0

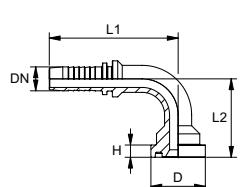
PN SF9 45**Swage nipple, SFS-CAT angle 45°**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS-CAT
suitable for:	Caterpillar
Material:	Steel
Surface:	electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PN 20 SF9 45	19	12	3/4"	3/4"	41,3	14,6	114,0	34,5
PN 20 SF9 25 45	19	12	3/4"	1"	47,6	14,6	118,0	38,5
PN 25 SF9 45	25	16	1"	1"	47,6	14,6	140,5	38,5
PN 25 SF9 32 45	25	16	1"	1.1/4"	54,0	14,6	145,0	43,0
PN 32 SF9 45	31	20	1.1/4"	1.1/4"	54,0	14,6	167,0	47,0
PN 32 SF9 40 45	31	20	1.1/4"	1.1/2"	63,5	14,6	171,0	51,5
PN 40 SF9 45	38	24	1.1/2"	1.1/2"	63,5	14,6	191,0	53,0

PN SF9 90**Swage nipple, SFS-CAT angle 90°****Application:**

Swage nipple for HD 100 to HD 400, KP and TE hoses
SAE flange connection 6000 PSI
flat seal with SF O-ring
SFS-CAT
Caterpillar
Steel
electro galvanised

Connection 1:**Sealing form 1:****Short code:****suitable for:****Material:****Surface:**

2

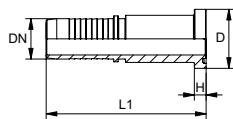
Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PN 20 SF9 90	19	12	3/4"	3/4"	41,3	14,6	99,0	66,5
PN 20 SF9 25 90	19	12	3/4"	1"	47,6	14,6	99,0	71,5
PN 25 SF9 90	25	16	1"	1"	47,6	14,6	126,0	79,0
PN 25 SF9 32 90	25	16	1"	1.1/4"	54,0	14,6	126,0	85,5
PN 32 SF9 90	31	20	1.1/4"	1.1/4"	54,0	14,6	150,5	94,5
PN 32 SF9 40 90	31	20	1.1/4"	1.1/2"	63,5	14,6	150,5	100,5
PN 40 SF9 90	38	24	1.1/2"	1.1/2"	63,5	14,6	175,5	110,0

PN SFK

Swage nipple, SFK

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	SAE flange connection for Komatsu
Sealing form 1:	flat seal with SF O-ring
Material:	Steel
Surface:	electro galvanised



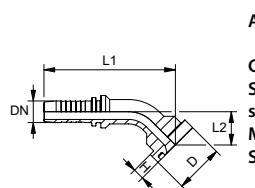
Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PN 16 SFK	16	10	5/8"	5/8"	34,0	8,2	90,0

2

PN SFK 45

Swage nipple, SFK angle 45°

**Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

SAE flange connection for Komatsu

flat seal with SF O-ring

Komatsu

Steel

electro galvanised

**Connection 1:
Sealing form 1:
suitable for:****Material:****Surface:**

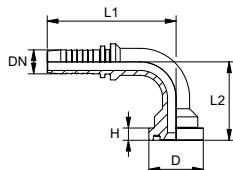
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PN 16 SFK 45	16	10	5/8"	5/8"	34,0	8,1	100,0	27,0

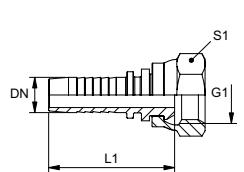
PN SFK 90**Swage nipple, SFK angle 90°**

Application: Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1: SAE flange connection for Komatsu
Sealing form 1: flat seal with SF O-ring
suitable for: Komatsu
Material: Steel
Surface: electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PN 16 SFK 90	16	10	5/8"	5/8"	34,0	8,1	91,0	56,0

PN AFLF / PN AFSF**Swage nipple, DKFM****Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

metric nut thread

24° outer cone for French series

metric pipe.

DKFM

French (metric pipe)

Steel

electro galvanised

Connection 1:**Sealing form 1:****Short code:****Series:****Material:****Surface:**

2

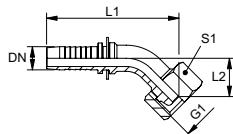
Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	Series	for external pipe Ø mm	L1 mm	S1
PN 16 AFLF	16	10	5/8"	M 27 x 1.5	L	18	56,5	32
PN 20 AFLF	19	12	3/4"	M 30 x 1.5	L	22	66,0	36
PN 16 AFSF	16	10	5/8"	M 27 x 1.5	S	20	56,5	32
PN 20 AFSF	19	12	3/4"	M 33 x 1.5	S	25	66,0	41
PN 25 AFSF	25	16	1"	M 39 x 1.5	S	30	75,5	46

PN AFLF 45 / PN AFSF 45

Swage nipple, DKFM angle 45°

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	metric nut thread
Sealing form 1:	24° outer cone for French series metric pipe.
Short code:	DKFM
Series:	French (metric pipe)
Material:	Steel
Surface:	electro galvanised

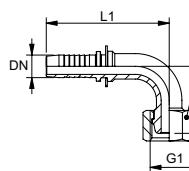


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	Series	for external pipe Ø mm	L1 mm	L2 mm	S1
PN 20 AFLF 45	19	12	3/4"	M 30 x 1.5	L	22	123,0	33,0	36
PN 25 AFLF 45	25	16	1"	M 36 x 1.5	L	28	148,0	39,0	46
PN 16 AFSF 45	16	10	5/8"	M 27 x 1.5	S	20	100,0	27,0	
PN 20 AFSF 45	19	12	3/4"	M 33 x 1.5	S	25			
PN 25 AFSF 45	25	16	1"	M 39 x 1.5	S	30	149,0	40,0	46

PN AFLF 90 / PN AFSF 90

Swage nipple, DKFM angle 90°

**Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

metric nut thread

24° outer cone for French series

metric pipe.

DKFM

French (metric pipe)

Steel

electro galvanised

Connection 1:**Sealing form 1:****Short code:****Series:****Material:****Surface:**

2

Note: Choose the appropriate ferrule based on the hose type.

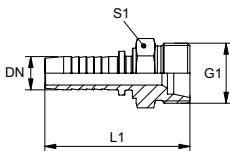
Identification	DN	Size	Inches	G1	Series	for external pipe Ø mm	L1 mm	L2 mm	S1
PN 16 AFLF 90	16	10	5/8"	M 27 x 1.5	L	18	91,0	57,0	32
PN 20 AFLF 90	19	12	3/4"	M 30 x 1.5	L	22	108,0	65,0	36
PN 25 AFLF 90	25	16	1"	M 36 x 1.5	L	28	125,0	73,0	46
PN 16 AFSF 90	16	10	5/8"	M 27 x 1.5	S	20	91,0	57,0	46
PN 20 AFSF 90	19	12	3/4"	M 33 x 1.5	S	25	109,0	66,0	41
PN 25 AFSF 90	25	16	1"	M 39 x 1.5	S	30	125,0	63,0	46

PN HLF / PN HSF**Swage nipple, AGFM**

Application: Swage nipple for HD 100 to HD 400,
KP and TE hoses

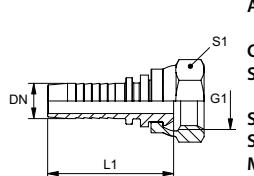
Connection 1: metric cylindrical outer thread
Sealing form 1: 24° inner cone for French series
metric pipe.

Short code: AGFM
Series: French (metric pipe)
Material: Steel
Surface: electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	Series	for external pipe Ø mm	L1 mm	S1
PN 16 HLF	16	10	5/8"	M 27 x 1.5	L	18	62,7	28
PN 20 HLF	19	12	3/4"	M 30 x 1.5	L	22	68,5	30
PN 25 HLF	25	16	1"	M 36 x 1.5	L	28	78,5	36
PN 16 HSF	16	10	5/8"	M 27 x 1.5	S	20	62,7	28
PN 20 HSF	19	12	3/4"	M 33 x 1.5	S	25	69,5	34
PN 25 HSF	25	16	1"	M 39 x 1.5	S	30	80,5	41

PN AF**Swage nipple, DKF****Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

metric nut thread

24° outer cone for French series

imperial pipe.

DKF

French (imperial pipe - series gas)

Steel

electro galvanised

Connection 1:**Sealing form 1:****Short code:****Series:****Material:****Surface:**

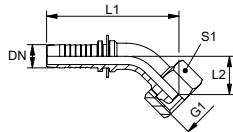
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1
PN 06 AF 10	6	4	1/4"	M 20 x 1.5	13,25	51,5	24
PN 08 AF 10	8	5	5/16"	M 20 x 1.5	13,25	51,5	24
PN 10 AF	10	6	3/8"	M 20 x 1.5	13,25	53,0	24
PN 10 AF 13	10	6	3/8"	M 24 x 1.5	16,75	54,0	30
PN 13 AF	12	8	1/2"	M 24 x 1.5	16,75	55,0	30
PN 13 AF 16	12	8	1/2"	M 30 x 1.5	21,26	58,0	36
PN 16 AF	16	10	5/8"	M 30 x 1.5	21,26	62,5	36
PN 20 AF	19	12	3/4"	M 36 x 1.5	26,75	70,0	41
PN 25 AF	25	16	1"	M 45 x 1.5	33,50	80,0	50

PN AF 45**Swage nipple, DKF angle 45°**

Application: Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1: metric nut thread
Sealing form 1: 24° outer cone for French series imperial pipe.
Short code: DKF
Series: French (imperial pipe - series gas)
Material: Steel
Surface: electro galvanised

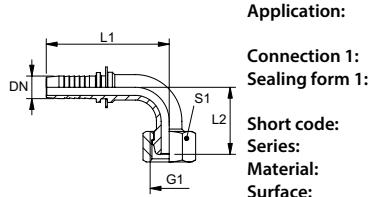


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1
PN 08 AF 10 45	8	5	5/16"	M 20 x 1.5	13,25	92,0	25,0	24
PN 10 AF 45	10	6	3/8"	M 20 x 1.5	13,25	91,0	25,0	24
PN 10 AF 13 45	10	6	3/8"	M 24 x 1.5	16,75	100,0	28,0	30
PN 13 AF 45	12	8	1/2"	M 24 x 1.5	16,75	98,0	28,0	30
PN 13 AF 16 45	12	8	1/2"	M 30 x 1.5	21,26	89,0	21,0	36
PN 16 AF 45	16	10	5/8"	M 30 x 1.5	21,26	94,0	21,0	36
PN 20 AF 45	19	12	3/4"	M 36 x 1.5	26,75	123,0	33,0	41
PN 25 AF 45	25	16	1"	M 45 x 1.5	33,50	150,0	41,0	55

PN AF 90

Swage nipple, DKF angle 90°



2

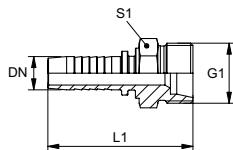
Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1
PN 08 AF 10 90	8	5	5/16"	M 20 x 1.5	13,25	74,0	42,0	24
PN 10 AF 90	10	6	3/8"	M 20 x 1.5	13,25	73,0	42,0	24
PN 10 AF 13 90	10	6	3/8"	M 24 x 1.5	16,75	89,0	56,0	30
PN 13 AF 90	12	8	1/2"	M 24 x 1.5	16,75	88,0	56,0	30
PN 13 AF 16 90	12	8	1/2"	M 30 x 1.5	21,26	87,0	57,0	37
PN 16 AF 90	16	10	5/8"	M 30 x 1.5	21,26	91,0	57,0	36
PN 20 AF 90	19	12	3/4"	M 36 x 1.5	26,75	109,0	66,0	41
PN 25 AF 90	25	16	1"	M 45 x 1.5	33,50	125,0	75,0	55

PN HF

Swage nipple, AGF

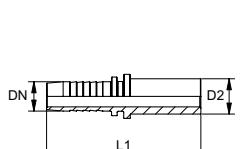
Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	metric cylindrical outer thread
Sealing form 1:	24° inner cone for French series imperial pipe.
Short code:	AGF
Series:	French (imperial pipe - series gas)
Material:	Steel
Surface:	electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1
PN 06 HF 10	6	4	1/4"	M 20 x 1.5	13,25	53,0	22
PN 08 HF 10	8	5	5/16"	M 20 x 1.5	13,25	55,0	22
PN 10 HF	10	6	3/8"	M 20 x 1.5	13,25	56,5	22
PN 10 HF 13	10	6	3/8"	M 24 x 1.5	16,75	58,0	24
PN 13 HF	12	8	1/2"	M 24 x 1.5	16,75	58,0	24
PN 16 HF	16	10	5/8"	M 30 x 1.5	21,26	65,7	30
PN 20 HF	19	12	3/4"	M 36 x 1.5	26,75	72,5	36
PN 25 HF	25	16	1"	M 45 x 1.5	33,50	85,5	46

2

PN FF**Swage nipple, BEF****Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

Pipe sockets

Cutting ring connection - French series.

BEF

French (imperial pipe - series gas)

Steel

electro galvanised

Connection 1:**Sealing form 1:****Short code:****Series:****Material:****Surface:**

2

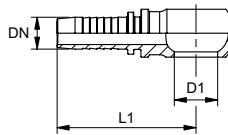
Note: Choose the appropriate ferrule based on the hose type. Do not use for new designs; we recommend:
PN...AF.

Identification	DN	Size	Inches	D2 mm	L1 mm
PN 10 FF	10	6	3/8"	13,25	62,5
PN 13 FF	12	8	1/2"	16,75	63,0
PN 16 FF	16	10	5/8"	21,25	69,5
PN 20 FF	19	12	3/4"	26,75	79,0
PN 25 FF	25	16	1"	33,50	87,0

PN B

Swage nipple, RGN

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	Banjo for metric hollow screw
Sealing form 1:	Sealed by copper ring
Short code:	RGN
Standard:	DIN 7642
Material:	Steel
Surface:	electro galvanised

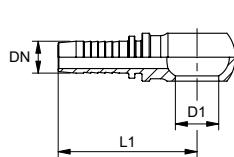


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	D1 mm	for hollow screw	L1 mm
PN 04 B	5	3	3/16"	10,1	M 10	42,0
PN 06 B 02	6	4	1/4"	8,1	M 8	48,0
PN 06 B 04	6	4	1/4"	10,1	M 10	48,0
PN 06 B	6	4	1/4"	12,1	M 12	46,5
PN 06 B 08	6	4	1/4"	14,1	M 14	49,5
PN 06 B 10	6	4	1/4"	16,1	M 16	52,5
PN 08 B 04	8	5	5/16"	10,1	M 10	48,0
PN 08 B 06	8	5	5/16"	12,1	M 12	54,5
PN 08 B	8	5	5/16"	14,1	M 14	54,5
PN 08 B 10	8	5	5/16"	16,1	M 16	52,5
PN 08 B 13	8	5	5/16"	18,1	M 18	55,5
PN 10 B 08	10	6	3/8"	14,1	M 14	56,0
PN 10 B	10	6	3/8"	16,1	M 16	54,0
PN 10 B 13	10	6	3/8"	18,1	M 18	57,0
PN 13 B	12	8	1/2"	18,1	M 18	58,0
PN 13 B 16	12	8	1/2"	22,1	M 22	60,5
PN 16 B 13	16	10	5/8"	18,1	M 18	68,5
PN 16 B	16	10	5/8"	22,1	M 22	69,5
PN 16 B 20	16	10	5/8"	26,1	M 26	72,0
PN 20 B 16	19	12	3/4"	22,1	M 22	76,0
PN 20 B	19	12	3/4"	26,1	M 26	78,5
PN 20 B 25	19	12	3/4"	30,1	M 30	82,0
PN 25 B	25	16	1"	30,1	M 30	90,0

Product versions:

PN B VA - Swage nipple, RGN, Stainless steel

PN BR**Swage nipple, RGN****Application:**

Swage nipple for HD 100 to HD 400,

KP and TE hoses

Banjo for imperial hollow screw

Sealed by copper ring

RNR

Steel

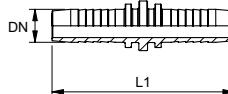
electro galvanised

2**Note:** Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	D1 mm	for hollow screw	L1 mm
PN 04 BR	5	3	3/16"	10,1	R 1/8"	42,5
PN 04 BR 06	5	3	3/16"	13,2	R 1/4"	43,5
PN 06 BR 02	6	4	1/4"	10,1	R 1/8"	48,5
PN 06 BR	6	4	1/4"	13,2	R 1/4"	49,5
PN 06 BR 10	6	4	1/4"	16,7	R 3/8"	52,5
PN 08 BR 06	8	5	5/16"	13,2	R 1/4"	49,5
PN 08 BR 10	8	5	5/16"	16,7	R 3/8"	52,5
PN 10 BR 06	10	6	3/8"	13,2	R 1/4"	58,5
PN 10 BR	10	6	3/8"	16,7	R 3/8"	54,0
PN 10 BR 13	10	6	3/8"	21,0	R 1/2"	59,5
PN 13 BR 10	12	8	1/2"	16,7	R 3/8"	58,0
PN 13 BR	12	8	1/2"	21,0	R 1/2"	60,5
PN 13 BR 16	12	8	1/2"	23,0	R 5/8"	63,0
PN 16 BR	16	10	5/8"	23,0	R 5/8"	67,5
PN 16 BR 20	16	10	5/8"	26,5	R 3/4"	72,0
PN 20 BR	19	12	3/4"	26,5	R 3/4"	78,5
PN 20 BR 25	19	12	3/4"	33,3	R 1"	87,0
PN 25 BR	25	16	1"	33,3	R 1"	95,0

PN VB**Swage nipple, VB**

Application: Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1: Hose connectors
Material: Steel
Surface: electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

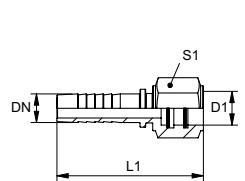
Identification	DN	Size	Inches	L1 mm
PN 04 VB	5	3	3/16"	53,4
PN 06 VB	6	4	1/4"	67,5
PN 08 VB	8	5	5/16"	67,5
PN 10 VB	10	6	3/8"	71,0
PN 13 VB	12	8	1/2"	73,5
PN 16 VB	16	10	5/8"	83,0
PN 20 VB	19	12	3/4"	97,0
PN 25 VB	25	16	1"	113,0
PN 32 VB	31	20	1 1/4"	131,0
PN 40 VB	38	24	1 1/2"	139,0
PN 50 VB	51	32	2"	171,0

Product versions:

PN VB VA - Swage nipple, VB, Stainless steel

PN WEO SB

Swage nipple, bushing for WEO plug-in connection



Application:

Swage nipple for HD 100 to HD 400,

KP and TE hoses

Bushing

O-ring sealed

Steel

electro galvanised

Description:
Self-aligning to prevent torsional stress.

2

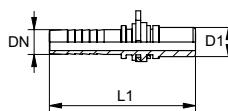
Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Working pressure bar	Size	\varnothing D1 mm	L1 mm	S1
PN 06 WEO 10 SB	6	4	1/4"	PN 350	1/4"	10,0	62,0	19
PN 10 WEO 13 SB	10	6	3/8"	PN 350	3/8"	13,0	66,0	22
PN 13 WEO 16 SB	12	8	1/2"	PN 350	1/2"	16,0	67,0	27
PN 20 WEO 23 SB	19	12	3/4"	PN 350	3/4"	23,0	87,0	32
PN 25 WEO 30 SB	25	16	1"	PN 250	1"	30,0	105,0	41

PN WEO S

Swage nipple, WEO S

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	WEO plug
Sealing form 1:	O-ring sealed pin
Material:	Steel
Surface:	electro galvanised
Description:	Self-aligning to prevent torsional stress.

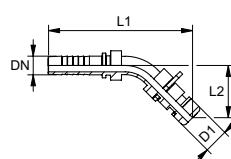


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Working pressure bar	Size	Ø D1 mm	L1 mm
PN 04 WEO 10 S	5	3	3/16"	PN 350	3/16"	10,0	54,5
PN 06 WEO 10 S	6	4	1/4"	PN 350	1/4"	10,0	58,0
PN 06 WEO 13 S	6	4	1/4"	PN 350	3/8"	13,0	61,0
PN 08 WEO 13 S	8	5	5/16"	PN 350	3/8"	13,0	61,9
PN 10 WEO 13 S	10	6	3/8"	PN 350	3/8"	13,0	63,0
PN 10 WEO 16 S	10	6	3/8"	PN 350	1/2"	16,0	63,0
PN 13 WEO 16 S	12	8	1/2"	PN 350	1/2"	16,0	64,0
PN 13 WEO 23 S	12	8	1/2"	PN 350	3/4"	23,0	73,5
PN 16 WEO 23 S	16	10	5/8"	PN 350	3/4"	23,0	77,5
PN 20 WEO 23 S	19	12	3/4"	PN 350	3/4"	23,0	82,0
PN 25 WEO 30 S	25	16	1"	PN 250	1"	30,0	100,5

PN WEO S 45

Swage nipple, WEO S angle 45°



Application:

Swage nipple for HD 100 to HD 400,

KP and TE hoses

WEO plug

O-ring sealed pin

Steel

electro galvanised

Self-aligning to prevent torsional stress.

Connection 1:

Sealing form 1:

Material:

Surface:

Description:

2

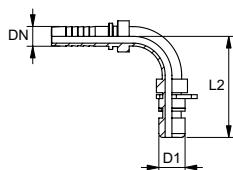
Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Working pressure bar	Size	Ø D1 mm	L2 mm
PN 06 WEO 10 S 45	6	4	1/4"	PN 350	1/4"	10,0	27,0
PN 06 WEO 13 S 45	6	4	1/4"	PN 350	3/8"	13,0	30,5
PN 08 WEO 13 S 45	8	5	5/16"	PN 350	3/8"	13,0	31,5
PN 10 WEO 13 S 45	10	6	3/8"	PN 350	3/8"	13,0	31,5
PN 10 WEO 16 S 45	10	6	3/8"	PN 350	1/2"	16,0	33,5
PN 13 WEO 16 S 45	12	8	1/2"	PN 350	1/2"	16,0	36,5
PN 13 WEO 23 S 45	12	8	1/2"	PN 350	3/4"	23,0	45,0
PN 16 WEO 23 S 45	16	10	5/8"	PN 350	3/4"	23,0	49,5
PN 20 WEO 23 S 45	19	12	3/4"	PN 350	3/4"	23,0	49,5

PN WEO S 90

Swage nipple, WEO S angle 90°

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
Connection 1:	WEO plug
Sealing form 1:	O-ring sealed pin
Material:	Steel
Surface:	electro galvanised
Description:	Self-aligning to prevent torsional stress.

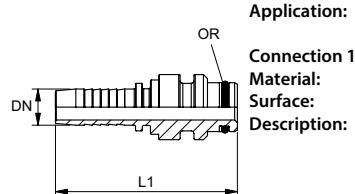


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Working pressure bar	Size	Ø D1 mm	L2 mm
PN 06 WEO 10 S 90	6	4	1/4"	PN 350	1/4"	10,0	48,5
PN 06 WEO 13 S 90	6	4	1/4"	PN 350	3/8"	13,0	54,0
PN 08 WEO 13 S 90	8	5	5/16"	PN 350	3/8"	13,0	58,0
PN 10 WEO 13 S 90	10	6	3/8"	PN 350	3/8"	13,0	58,0
PN 10 WEO 16 S 90	10	6	3/8"	PN 350	1/2"	16,0	59,5
PN 13 WEO 16 S 90	12	8	1/2"	PN 350	1/2"	16,0	68,0
PN 13 WEO 23 S 90	12	8	1/2"	PN 350	3/4"	23,0	82,0
PN 16 WEO 23 S 90	16	10	5/8"	PN 350	3/4"	23,0	100,0
PN 20 WEO 23 S 90	19	12	3/4"	PN 350	3/4"	23,0	100,0

PN SO

Swage nipple, SO



Application:

Connection 1:

Material:

Surface:

Description:

Swage nipple for HD 100 to HD 400,
KP and TE hoses
Plug-in O port
Steel
electro galvanised
Self-aligning to prevent torsional
stress.

2

Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	L1 mm	OR
PN 06 SO	6	4	1/4"	63,5	6,0 x 2,0
PN 10 SO	10	6	3/8"	65,5	10,0 x 2,0
PN 13 SO	12	8	1/2"	67,0	13,2 x 2,5
PN 16 SO	16	10	5/8"	71,5	16,0 x 2,5
PN 20 SO	19	12	3/4"	78,5	19,0 x 2,5
PN 25 SO	25	16	1"	92,5	25,0 x 2,5
PN 32 SO	31	20	1.1/4"	102,0	33,0 x 2,5
PN 40 SO	38	24	1.1/2"	110,5	40,0 x 3,0
PN 50 SO	51	32	2"	126,0	49,0 x 3,0

PN ARG**Swage nipple, gas connection**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
suitable for:	Nitrogen
Connection 1:	Gas connection nut thread
Sealing form 1:	flat sealing
Material:	Steel
Surface:	electro galvanised
Special features:	Right-hand thread



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	for medium	G1	L1 mm
PN 06 ARG 20	6	4	1/4"		G 3/4"	
PN 06 ARG 21	6	4	1/4"	argon / CO2		62,5
PN 06 ARG 24	6	4	1/4"	nitrogen		
PN 10 ARG 20	10	6	3/8"		G 3/4"	
PN 10 ARG 21	10	6	3/8"	argon / CO2		66,5
PN 10 ARG 24	10	6	3/8"	nitrogen		
PN 13 ARG 20	12	8	1/2"		G 3/4"	
PN 13 ARG 21	12	8	1/2"	argon / CO2		66,0
PN 13 ARG 24	12	8	1/2"	nitrogen		

PN ARG LH**Swage nipple, gas connection**

Application:	Swage nipple for HD 100 to HD 400, KP and TE hoses
suitable for:	Hydrogen
Connection 1:	Gas connection nut thread
Sealing form 1:	flat sealing
Media:	Propane, hydrogen, methane
Material:	Steel
Surface:	electro galvanised
Special features:	Left-hand thread

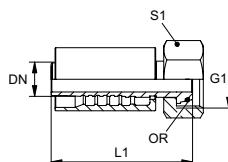
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1
PN 06 ARG 21 LH	6	4	1/4"	
PN 10 ARG 21 LH	10	6	3/8"	
PN 13 ARG 21 LH	12	8	1/2"	

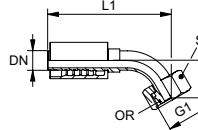
PA 700 AOL**Swage fitting, DKOL**

Application:	Swage fitting for HD 400 hoses
Connection 1:	metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOL
Standard:	ISO 8434-1
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised
Series:	light



2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	OR
PA 710 AOL	10	6	3/8"	M 18 x 1.5	12	69,3	9,0 x 1,5
PA 713 AOL	12	8	1/2"	M 22 x 1.5	15	70,8	12,0 x 2,0
PA 716 AOL	16	10	5/8"	M 26 x 1.5	18	88,2	15,0 x 2,0
PA 716 AOL 20	16	10	5/8"	M 30 x 2	22	86,0	20,0 x 2,0

PA 700 AOL 45**Swage fitting, DKOL angle 45°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:
Series:

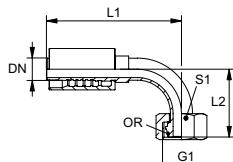
Swage fitting for HD 400 hoses
metric nut thread
24° outer cone with O-ring
DKOL
ISO 8434-1
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised
light

2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	OR
PA 710 AOL 45	10	6	3/8"	M 18 x 1.5	12	82,5	19,5	9,0 x 1,5
PA 713 AOL 45	12	8	1/2"	M 22 x 1.5	15	93,5	21,0	12,0 x 2,0
PA 716 AOL 45	16	10	5/8"	M 26 x 1.5	18	115,0	26,5	15,0 x 2,0

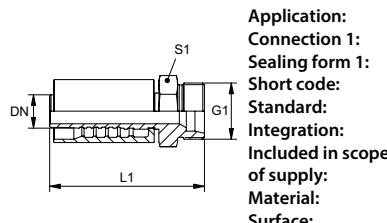
PA 700 AOL 90**Swage fitting, DKOL angle 90°**

Application:	Swage fitting for HD 400 hoses
Connection 1:	metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOL
Standard:	ISO 8434-1
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised
Series:	light



2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	OR
PA 710 AOL 90	10	6	3/8"	M 18 x 1.5	12	77,5	37,0	9,0 x 1,5
PA 713 AOL 90	12	8	1/2"	M 22 x 1.5	15	85,5	42,0	12,0 x 2,0
PA 716 AOL 90	16	10	5/8"	M 26 x 1.5	18	106,5	52,5	15,0 x 2,0

PA 700 HL**Swage fitting, CEL**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

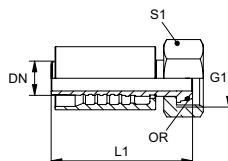
Swage fitting for HD 400 hoses
metric cylindrical outer thread
24° inner cone
CEL
ISO 8434-1
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	for external pipe Ø mm
PA 710 HL	10	6	3/8"	M 18 x 1.5	12
PA 713 HL	12	8	1/2"	M 22 x 1.5	15
PA 716 HL	16	10	5/8"	M 26 x 1.5	18

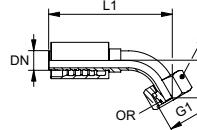
PA 700 AOS**Swage fitting, DKOS**

Application: Swage fitting for HD 400 hoses
Connection 1: metric nut thread
Sealing form 1: 24° outer cone with O-ring
Short code: DKOS
Standard: ISO 8434-1
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised
Series: heavy



2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	OR
PA 710 AOS 08	10	6	3/8"	M 20 x 1.5	12		24	10.0 x 1.5
PA 710 AOS	10	6	3/8"	M 22 x 1.5	14	67,6	27	12.0 x 2.0
PA 713 AOS	12	8	1/2"	M 24 x 1.5	16	72,8	30	13.0 x 2.0
PA 713 AOS 16	12	8	1/2"	M 30 x 2	20	75,8	36	17.5 x 2.5
PA 716 AOS 13	16	10	5/8"	M 24 x 1.5	16	83,5	30	13.0 x 2.0
PA 716 AOS	16	10	5/8"	M 30 x 2	20	86,0	36	17.5 x 2.5
PA 716 AOS 20	16	10	5/8"	M 36 x 2	25	89,0	46	20.0 x 2.5
PA 720 AOS 16	19	12	3/4"	M 30 x 2	20	96,0	36	17.5 x 2.5
PA 720 AOS	19	12	3/4"	M 36 x 2	25	99,0	46	20.0 x 2.5
PA 720 AOS 25	19	12	3/4"	M 42 x 2	30	100,0	50	27.0 x 2.5
PA 725 AOS 20	25	16	1"	M 36 x 2	25	112,0	46	22.0 x 2.5
PA 725 AOS	25	16	1"	M 42 x 2	30	113,0	50	25.0 x 2.5
PA 725 AOS 32	25	16	1"	M 52 x 2	38	131,0	60	33.0 x 2.5

PA 700 AOS 45**Swage fitting, DKOS angle 45°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:
Series:

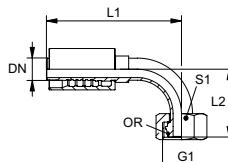
Swage fitting for HD 400 hoses
metric nut thread
24° outer cone with O-ring
DKOS
ISO 8434-1
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised
heavy

2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	L2 mm	OR
PA 710 AOS 08 45	10	6	3/8"	M 20 x 1.5	12		24		10,0 x 1,5
PA 710 AOS 45	10	6	3/8"	M 22 x 1.5	14	94,2	27		12,0 x 2,0
PA 713 AOS 45	12	8	1/2"	M 24 x 1.5	16	95,0	30	21,5	13,0 x 2,0
PA 713 AOS 16 45	12	8	1/2"	M 30 x 2	20	108,0	36	27,0	17,5 x 2,5
PA 716 AOS 45	16	10	3/8"	M 30 x 2	20	118,0	36	27,0	17,5 x 2,5
PA 720 AOS 16 45	19	12	3/4"	M 30 x 2	20	133,0	36	27,0	16,0 x 2,5
PA 720 AOS 45	19	12	3/4"	M 36 x 2	25	136,0	46	30,0	20,0 x 2,5
PA 720 AOS 25 45	19	12	3/4"	M 42 x 2	30	142,0	50	35,0	27,0 x 2,5
PA 725 AOS 20 45	25	16	1"	M 36 x 2	25	156,5	41	34,5	20,0 x 2,5
PA 725 AOS 45	25	16	1"	M 42 x 2	30	164,0	50	34,5	25,0 x 2,5
PA 725 AOS 32 45	25	16	1"	M 52 x 2	38	170,0	60	41,0	33,0 x 2,5

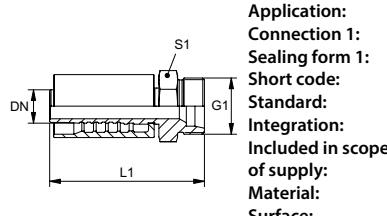
PA 700 AOS 90**Swage fitting, DKOS angle 90°**

Application: Swage fitting for HD 400 hoses
Connection 1: metric nut thread
Sealing form 1: 24° outer cone with O-ring
Short code: DKOS
Standard: ISO 8434-1
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised
Series: heavy



2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1 mm	L2 mm	OR
PA 710 AOS 08 90	10	6	3/8"	M 20 x 1.5	12		24		10,0 x 1,5
PA 710 AOS 90	10	6	3/8"	M 22 x 1.5	14	71,7	27		12,0 x 2,0
PA 713 AOS 90	12	8	1/2"	M 24 x 1.5	16	87,0	30	45,0	13,0 x 2,0
PA 713 AOS 16 90	12	8	1/2"	M 30 x 2	20	86,5	36	49,5	17,5 x 2,5
PA 716 AOS 90	16	10	3/8"	M 30 x 2	20	106,5	36	49,5	17,5 x 2,5
PA 720 AOS 16 90	19	12	3/4"	M 30 x 2	20	125,5	36	57,5	17,5 x 2,5
PA 720 AOS 90	19	12	3/4"	M 36 x 2	25	125,5	46	62,0	20,0 x 2,5
PA 720 AOS 90 SW41	19	12	3/4"	M 36 x 2	25	125,5	41	62,0	20,0 x 2,5
PA 720 AOS 25 90	19	12	3/4"	M 42 x 2	30	129,0	50	71,5	25,0 x 2,5
PA 725 AOS 20 90	25	16	1"	M 36 x 2	25	144,0	46	71,0	20,0 x 2,5
PA 725 AOS 90	25	16	1"	M 42 x 2	30	157,5	50	72,5	25,0 x 2,5
PA 725 AOS 32 90	25	16	1"	M 52 x 2	38	154,5	60	84,5	33,0 x 2,5

PA 700 HS**Swage fitting, CES**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

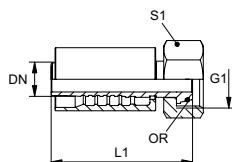
Swage fitting for HD 400 hoses
metric cylindrical outer thread
24° inner cone
CES
ISO 8434-1
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1
PA 710 HS 08	10	6	3/8"	M 20 x 1.5	12	67,8	22
PA 710 HS	10	6	3/8"	M 22 x 1.5	14	69,7	22
PA 713 HS	12	8	1/2"	M 24 x 1.5	16	75,0	24
PA 713 HS 16	12	8	1/2"	M 30 x 2	20		
PA 716 HS	16	10	5/8"	M 30 x 2	20	90,5	30
PA 720 HS 16	19	12	3/4"	M 30 x 2	20	97,0	32
PA 720 HS	19	12	3/4"	M 36 x 2	25	99,0	41
PA 725 HS	25	16	1"	M 42 x 2	30	117,0	46

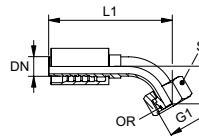
PA 700 AOB**Swage fitting, DKOR**

Application:	Swage fitting for HD 400 hoses
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	S1	OR
PA 713 AOB	12	8	1/2"	G 1/2"-14	69,3	27	12,1 x 1,6
PA 720 AOB	19	12	3/4"	G 3/4"-14	96,5	32	17,1 x 1,6
PA 725 AOB	25	16	1"	G 1"-11	113,0	41	22,1 x 1,6

PA 700 AOB 45**Swage fitting, DKOR angle 45°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

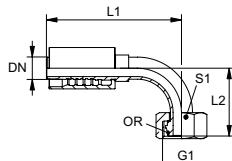
Swage fitting for HD 400 hoses
BSP nut thread
60° outer cone with O-ring
DKOR
ISO 8434-6, BS 5200
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PA 713 AOB 45	12	8	1/2"	G 1/2"-14	91,5	20,0	27	12,1 x 1,6
PA 720 AOB 45	19	12	3/4"	G 3/4"-14	140,0	34,5	32	17,1 x 1,6
PA 725 AOB 45	25	16	1"	G 1"-11	169,5	39,0	41	22,1 x 1,6

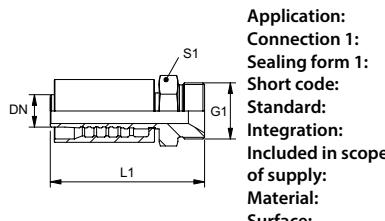
PA 700 AOB 90**Swage fitting, DKOR angle 90°**

Application:	Swage fitting for HD 400 hoses
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PA 713 AOB 90	12	8	1/2"	G 1/2" -14	87,0	40,5	27	12,1 x 1,6
PA 720 AOB 90	19	12	3/4"	G 3/4" -14	127,5	68,2	32	17,1 x 1,6
PA 725 AOB 90	25	16	1"	G 1" -11	158,0	81,7	41	22,1 x 1,6

PA 700 HB**Swage fitting, AGR**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

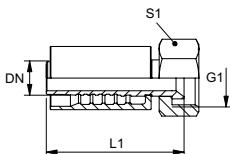
Swage fitting for HD 400 hoses
 BSP external thread, cylindrical
 60° inner cone
 AGR
 ISO 8434-6, BS 5200
 with pull-out protection (interlock)
 Swage nipple + swage ferrule
 Steel
 electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	S1
PA 713 HB	12	8	1/2"	G 1/2" -14	79,3	27
PA 716 HB	16	10	5/8"	G 5/8" -14	92,8	30
PA 720 HB	19	12	3/4"	G 3/4" -14	97,5	32
PA 725 HB	25	16	1"	G 1" -11	114,5	41

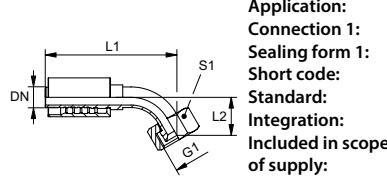
PA 700 AJ**Swage fitting, DKJ**

Application:	Swage fitting for HD 400 hoses
Connection 1:	UN/UNF nut threads
Sealing form 1:	74° inner cone
Short code:	DKJ
Standard:	ISO 8434-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	S1
PA 713 AJ	12	8	1/2"	3/4"-16 UNF	67,4	24
PA 713 AJ 16	12	8	1/2"	7/8"-14 UNF	66,5	25
PA 716 AJ	16	10	5/8"	7/8"-14 UNF	79,5	25
PA 716 AJ 20	16	10	5/8"	1.1/16"-12 UN	81,0	30

PA 700 AJ 45**Swage fitting, DKJ angle 45°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

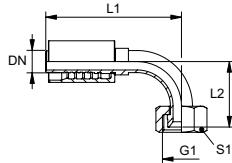
Swage fitting for HD 400 hoses
UN/UNF nut threads
74° inner cone
DKJ
ISO 8434-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PA 713 AJ 45	12	8	1/2"	3/4"-16 UNF	92,8	21,5	24
PA 713 AJ 16 45	12	8	5/8"	7/8"-14 UNF	92,8	20,0	25
PA 716 AJ 45	16	10	5/8"	7/8"-14 UNF	116,5	25,0	25
PA 716 AJ 20 45	16	10	5/8"	1.1/16"-12 UN	114,0	23,5	32

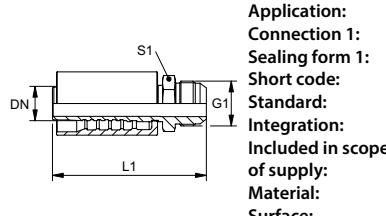
PA 700 AJ 90**Swage fitting, DKJ angle 90°**

Application:	Swage fitting for HD 400 hoses
Connection 1:	UN/UNF nut threads
Sealing form 1:	74° inner cone
Short code:	DKJ
Standard:	ISO 8434-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PA 713 AJ 90	12	8	1/2"	3/4"-16 UNF	87,0	43,5	24
PA 713 AJ 16 90	12	8	1/2"	7/8"-14 UNF	87,0	40,0	25
PA 716 AJ 90	16	10	5/8"	7/8"-14 UNF	109,0	51,0	25
PA 716 AJ 20 90	16	10	5/8"	1.1/16"-12 UN	107,5	50,0	32

PA 700 HJ**Swage fitting, AGJ**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

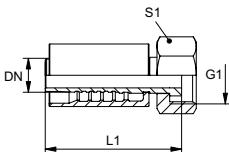
Swage fitting for HD 400 hoses
UN/UNF external threads
74° outer cone
AGJ
ISO 8434-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	S1
PA 713 HJ	12	8	1/2"	3/4"-16 UNF	77,2	22
PA 713 HJ 16	12	8	1/2"	7/8"-14 UNF	80,4	24
PA 716 HJ	16	10	5/8"	7/8"-14 UNF	92,0	24

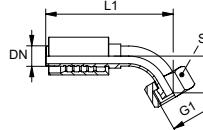
PA 700 AJF**Swage fitting, ORFS**

Application: Swage fitting for HD 400 hoses
Connection 1: UN/UNF nut threads
Sealing form 1: flat sealing
Short code: ORFS
Standard: ISO 8434-3
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	S1
PA 713 AJF	12	8	1/2"	13/16"-16 UN	65,8	27
PA 716 AJF	16	10	5/8"	1"-14 UNS	82,0	30
PA 716 AJF 20	16	10	5/8"	1.3/16"-12 UN	82,0	36
PA 720 AJF	19	12	3/4"	1.3/16"-12 UN	107,0	36
PA 720 AJF 25	19	12	3/4"	1.7/16"-12 UN	108,4	41
PA 725 AJF	25	16	1"	1.7/16"-12 UN	122,0	41

PA 700 AJF 45**Swage fitting, ORFS angle 45°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

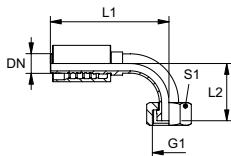
Swage fitting for HD 400 hoses
UN/UNF nut threads
flat sealing
ORFS
ISO 8434-3
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PA 713 AJF 45	12	8	1/2"	11/16"-16 UN	91,5	21,5	27
PA 716 AJF 45	16	10	5/8"	1"-14 UNS	111,0	20,0	30
PA 720 AJF 45	19	12	3/4"	1.3/16"-12 UN	133,0	26,5	36
PA 725 AJF 45	25	16	1"	1.7/16"-12 UN	160,5	31,0	41

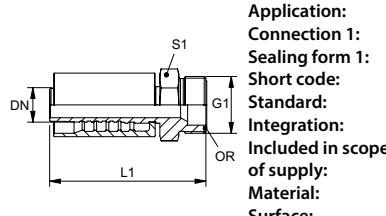
PA 700 AJF 90**Swage fitting, ORFS angle 90°**

Application:	Swage fitting for HD 400 hoses
Connection 1:	UN/UNF nut threads
Sealing form 1:	flat sealing
Short code:	ORFS
Standard:	ISO 8434-3
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PA 713 AJF 90	12	8	1/2"	13/16"-16 UN	85,5	43,5	27
PA 716 AJF 90	16	10	5/8"	1"-14 UNS	106,5	47,5	30
PA 720 AJF 90	19	12	3/4"	1,3/16"-12 UN	126,0	56,0	36
PA 725 AJF 90	25	16	1"	1,7/16"-12 UN	157,5	68,0	41

PA 700 HJOF**Swage fitting, ORFS**

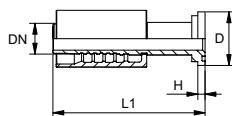
Swage fitting for HD 400 hoses
UN/UNF external threads
flat seal with O-ring
ORFS
ISO 8434-3
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	S1	OR
PA 713 HJOF	12	8	1/2"	13/16"-16 UN	73,8	22	12.42 x 1.78
PA 716 HJOF	16	10	5/8"	1"-14 UNS	89,4	27	15.60 x 1.78
PA 720 HJOF	19	12	3/4"	1.3/16"-12 UN	101,0	32	18.77 x 1.78
PA 725 HJOF	25	16	1"	1.7/16"-12 UN	117,5	36	23.52 x 1.78

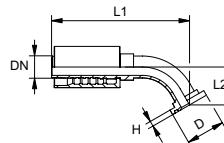
PA 700 SF**Swage fitting, SFL**

Application: Swage fitting for HD 400 hoses
Connection 1: SAE flange connection 3000 PSI
Sealing form 1: flat seal with SF O-ring
Short code: SFL
Standard: SAE J518, ISO 6162-1
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PA 713 SF	12	8	1/2"	1/2"	30,2	6,7	90,4
PA 713 SF 20	12	8	1/2"	3/4"	38,1	6,7	91,6
PA 716 SF 20	16	10	3/8"	3/4"	38,1	6,7	102,6
PA 720 SF	19	12	3/4"	3/4"	38,1	6,7	116,5
PA 720 SF 25	19	12	3/4"	1"	44,5	8,0	119,5
PA 725 SF 20	25	16	1"	3/4"	38,1	6,7	132,0
PA 725 SF	25	16	1"	1"	44,5	8,0	135,5
PA 725 SF 32	25	16	1"	1.1/4"	50,8	8,0	138,5

PA 700 SF 45**Swage fitting, SFL angle 45°****Application:****Connection 1:****Sealing form 1:****Short code:****Standard:****Integration:****Included in scope of supply:****Material:****Surface:**

Swage fitting for HD 400 hoses

SAE flange connection 3000 PSI

flat seal with SF O-ring

SFL

SAE J518, ISO 6162-1

with pull-out protection (interlock)

Swage nipple + swage ferrule

Steel

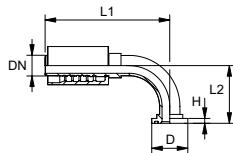
electro galvanised

2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 713 SF 45	12	8	1/2"	1/2"	30,2	6,7	94,5	22,5
PA 713 SF 20 45	12	8	1/2"	3/4"	38,1	6,7	126,0	26,5
PA 720 SF 45	19	12	3/4"	3/4"	38,1	6,8	132,5	27,5
PA 720 SF 25 45	19	12	3/4"	1"	44,5	8,1	134,5	29,5
PA 725 SF 45	25	16	1"	1"	44,5	8,1	159,0	28,5

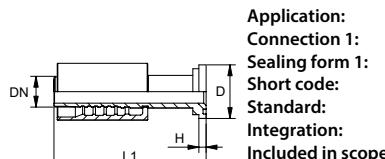
PA 700 SF 90**Swage fitting, SFL angle 90°**

Application:	Swage fitting for HD 400 hoses
Connection 1:	SAE flange connection 3000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFL
Standard:	SAE J518, ISO 6162-1
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 713 SF 90	12	8	1/2"	1/2"	30,2	6,7	85,9	45,0
PA 713 SF 20 90	12	8	1/2"	3/4"	38,1	6,7	96,0	51,0
PA 720 SF 90	19	12	3/4"	3/4"	38,1	6,8	127,5	58,0
PA 725 SF 20 90	25	16	1"	3/4"	38,1	6,8	144,0	64,5
PA 720 SF 25 90	19	12	3/4"	1"	44,5	8,1	127,5	61,0
PA 725 SF 90	25	16	1"	1"	44,5	8,1	158,0	67,0
PA 725 SF 32 90	25	16	1"	1.1/4"	50,8	8,1	158,0	69,5

PA 700 SF6**Swage fitting, SFS**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

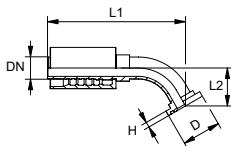
Swage fitting for HD 400 hoses
SAE flange connection 6000 PSI
flat seal with SF O-ring
SFS
SAE J518, ISO 6162-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PA 713 SF6	12	8	1/2"	1/2"	31,8	7,7	90,4
PA 713 SF6 20	12	8	1/2"	3/4"	41,3	8,8	93,9
PA 716 SF6 13	16	10	5/8"	1/2"	31,8	7,7	108,0
PA 716 SF6 20	16	10	5/8"	3/4"	41,3	8,8	102,0
PA 716 SF6 25	16	10	5/8"	1"	47,6	9,5	103,0
PA 720 SF6	19	12	3/4"	3/4"	41,3	8,8	124,5
PA 720 SF6 25	19	12	3/4"	1"	47,6	9,5	129,0
PA 725 SF6 20	25	16	1"	3/4"	41,3	8,8	134,0
PA 725 SF6	25	16	1"	1"	47,6	9,5	146,5
PA 725 SF6 32	25	16	1"	1.1/4"	54,0	10,3	151,0

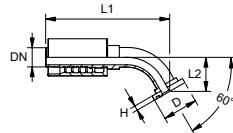
PA 700 SF6 45**Swage fitting, SFS angle 45°**

Application:	Swage fitting for HD 400 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 713 SF6 45	12	8	1/2"	1/2"	31,8	7,7	95,5	23,0
PA 713 SF6 20 45	12	8	1/2"	3/4"	41,3	8,8	99,9	23,0
PA 716 SF6 13 45	16	10	5/8"	1/2"	31,8	7,7	114,0	21,5
PA 716 SF6 20 45	16	10	5/8"	3/4"	41,3	8,8	117,5	25,0
PA 716 SF6 25 45	16	10	5/8"	1"	47,6	9,5	121,0	29,0
PA 720 SF6 45	19	12	3/4"	3/4"	41,3	8,8	135,5	30,0
PA 720 SF6 25 45	19	12	3/4"	1"	47,6	9,6	139,5	34,5
PA 725 SF6 20 45	25	16	1"	3/4"	41,3	8,8	164,0	36,5
PA 725 SF6 45	25	16	1"	1"	47,6	9,6	164,0	33,5
PA 725 SF6 32 45	25	16	1"	1.1/4"	54,0	10,4	169,0	38,5

PA 700 SF6 60**Swage fitting, SFS angle 60°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

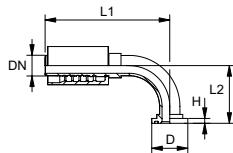
Swage fitting for HD 400 hoses
SAE flange connection 6000 PSI
flat seal with SF O-ring
SFS
SAE J518, ISO 6162-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	Flange size	D mm	H mm
PA 725 SF6 60	25	16	1"	1"	47,6	9,5

PA 700 SF6 90**Swage fitting, SFS angle 90°**

Application:	Swage fitting for HD 400 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

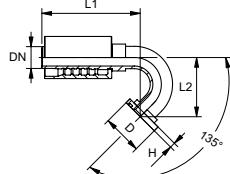


2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 713 SF6 90	12	8	1/2"	1/2"	31,8	7,7	86,0	46,0
PA 713 SF6 20 90	12	8	1/2"	3/4"	41,3	8,8	92,5	46,0
PA 716 SF6 13 90	16	10	5/8"	1/2"	31,8	7,7	108,0	48,0
PA 716 SF6 20 90	16	10	5/8"	3/4"	41,3	8,8	107,5	52,5
PA 716 SF6 25 90	16	10	5/8"	1"	47,6	9,5	108,0	57,0
PA 720 SF6 90	19	12	3/4"	3/4"	41,3	8,8	127,5	62,0
PA 720 SF6 25 90	19	12	3/4"	1"	47,6	9,6	127,5	68,0
PA 725 SF6 20 90	25	16	1"	3/4"	41,3	8,8	152,5	70,5
PA 725 SF6 90	25	16	1"	1"	47,6	9,6	158,0	74,0
PA 725 SF6 32 90	25	16	1"	1.1/4"	54,0	10,4	156,0	83,5

PA 700 SF6 135

Swage fitting, SFS angle 135°



Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

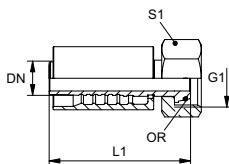
Swage fitting for HD 400 hoses
SAE flange connection 6000 PSI
flat seal with SF O-ring
SFS
SAE J518, ISO 6162-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 725 SF6 135	25	16	1"	1"	47,6	9,5	170,0	100,0

PA 500 AOL A**Swage fitting, DKOL**

Application:	Swage fitting for HD 500 hoses
Connection 1:	metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOL
Standard:	ISO 8434-1
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

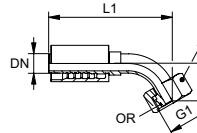


2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	OR
PA 540 AOL A	38	24	1.1/2"	M 52 x 2	42	133,5	60	38,0 x 2,5
PA 532 AOL A	31	20	1.1/4"	M 45 x 2	35	122,5	50	32,0 x 2,5

Product versions:

PA 500 AOL VA - Swage fitting, DKOL, Stainless steel

PA 500 AOL 45 A**Swage fitting DKOL W45°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 500 hoses
metric nut thread
24° outer cone with O-ring
DKOL
ISO 8434-1
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

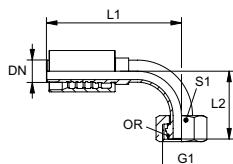
Identification	DN	Size	Inches	G1	for external pipe Ø	L1 mm	L2 mm	S1	OR
PA 532 AOL 45 A	31	20	1.1/4"	M 45 x 2	35	194,0	47,0	50	32,0 x 2,5
PA 540 AOL 45 A	38	24	1.1/2"	M 52 x 2	42	210,0	48,0	60	38,0 x 2,5

Product versions:

PA 500 AOL 45 VA - Swage fitting, DKOL angle 45°, Stainless steel

PA 500 AOL 90 A**Swage fitting DKOL W90°**

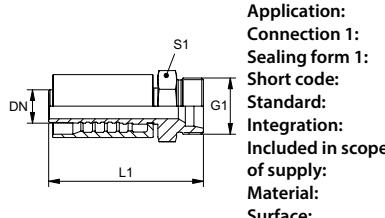
Application: Swage fitting for HD 500 hoses
Connection 1: metric nut thread
Sealing form 1: 24° outer cone with O-ring
Short code: DKOL
Standard: ISO 8434-1
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
PA 532 AOL 90 A	31	20	1.1/4"	M 45 x 2	35	170,0	88,0	50	32,0 x 2,5
PA 540 AOL 90 A	38	24	1.1/2"	M 52 x 2	42	193,0	99,0	60	38,0 x 2,5

Product versions:**PA 500 AOL 90 VA**

PA 500 HLA**Swage fitting CEL**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

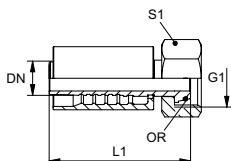
Swage fitting for HD 500 hoses
metric cylindrical outer thread
24° inner cone
CEL
ISO 8434-1
without pull-out protection
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm
PA 532 HLA	31	20	1.1/4"	M 45 x 2	35	115,0

PA 500 AOS A**Swage fitting, DKOS**

Application: Swage fitting for HD 500 hoses
Connection 1: metric nut thread
Sealing form 1: 24° outer cone with O-ring
Short code: DKOS
Standard: ISO 8434-1
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised

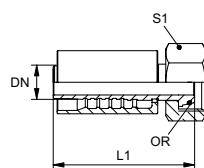


2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	OR
PA 720 AOS 16	19	12	3/4"	M 30 x 2	20	101,8	36	17,5 x 2,5
PA 720 AOS	19	12	3/4"	M 36 x 2	25	99,0	46	20,0 x 2,5
PA 725 AOS 20	25	16	1"	M 36 x 2	25	112,0	46	22,0 x 2,5
PA 725 AOS	25	16	1"	M 42 x 2	30	113,0	50	25,0 x 2,5
PA 725 AOS 32	25	16	1"	M 52 x 2	38	131,0	60	33,0 x 2,5
PA 532 AOS 25 A	31	20	1.1/4"	M 42 x 2	30	120,0	50	25,0 x 2,5
PA 532 AOS A	31	20	1.1/4"	M 52 x 2	38	124,5	60	33,0 x 2,5

Product versions:

PA 500 AOS VA - Swage fitting, DKOS, Stainless steel

PA 500 AOS A H**Swage fitting, DKOS**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Additional feature:
Material:
Surface:
Description:

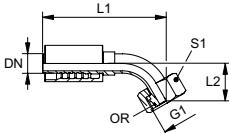
Swage fitting for HD 500 hoses
metric nut thread
24° outer cone with O-ring
DKOS
ISO 8434-1
with pull-out protection (interlock)
Swage nipple + swage ferrule
for breaker operation
Steel
electro galvanised
Reinforced design for extreme loads,
e.g. use in hammers.

2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	OR
PA 720 AOS H	19	12	3/4"	M 36 x 2	25	104,0	46	20,0 x 2,5
PA 725 AOS H	25	16	1"	M 42 x 2	30	111,0	50	25,0 x 2,5
PA 532 AOS A H	31	20	1.1/4"	M 52 x 2	38	112,5	60	33,0 x 2,5

PA 500 AOS 45 A**Swage fitting, DKOS angle 45°**

Application:	Swage fitting for HD 500 hoses
Connection 1:	metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOS
Standard:	ISO 8434-1
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

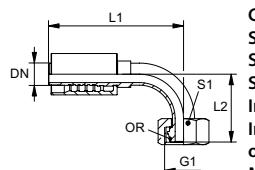


2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
PA 720 AOS 16 45	19	12	3/4"	M 30 x 2	20	133,0	27,0	36	16,0 x 2,5
PA 720 AOS 45	19	12	3/4"	M 36 x 2	25	136,0	30,0	46	20,0 x 2,5
PA 720 AOS 25 45	19	12	3/4"	M 42 x 2	30	142,0	35,0	50	27,0 x 2,5
PA 725 AOS 20 45	25	16	1"	M 36 x 2	25	156,5	34,5	41	22,0 x 2,5
PA 725 AOS 45	25	16	1"	M 42 x 2	30	164,0	34,5	50	25,0 x 2,5
PA 725 AOS 32 45	25	16	1"	M 52 x 2	38	170,0	41,0	60	33,0 x 2,5
PA 532 AOS 25 45 A	31	20	1"	M 42 x 2	30	175,0	39,5	50	27,0 x 2,5
PA 532 AOS 45 A	31	20	1.1/4"	M 52 x 2	38	192,5	41,0	60	33,0 x 2,5

Product versions:

PA 500 AOS 45 VA - Swage fitting, DKOS angle 45°, Stainless steel

PA 500 AOS 90 A**Swage fitting, DKOS angle 90°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 500 hoses
metric nut thread
24° outer cone with O-ring
DKOS
ISO 8434-1
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

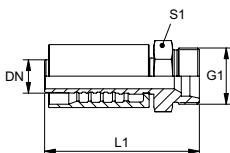
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
PA 720 AOS 16 90	19	12	3/4"	M 30 x 2	20	125,5	57,5	36	17,5 x 2,5
PA 720 AOS 90	19	12	3/4"	M 36 x 2	25	125,5	62,0	46	22,0 x 2,5
PA 720 AOS 25 90	19	12	3/4"	M 42 x 2	30	129,0	71,5	50	27,0 x 2,5
PA 725 AOS 20 90	25	16	1"	M 36 x 2	25	144,0	71,0	46	22,0 x 2,5
PA 725 AOS 90	25	16	1"	M 42 x 2	30	157,5	72,5	50	27,0 x 2,5
PA 725 AOS 32 90	25	16	1"	M 52 x 2	38	154,5	84,5	60	33,0 x 2,5
PA 532 AOS 25 90 A	31	20	1.1/4"	M 42 x 2	30	162,0	82,0	50	27,0 x 2,5
PA 532 AOS 90 A	31	20	1.1/4"	M 52 x 2	38	182,0	91,0	60	33,0 x 2,5

Product versions:

PA 500 AOS 90 VA - Swage fitting, DKOS angle 90°, Stainless steel

PA 500 HS A**Swage fitting, CES**

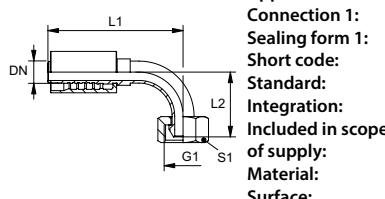
Application:	Swage fitting for HD 500 hoses
Connection 1:	metric cylindrical outer thread
Sealing form 1:	24° inner cone
Short code:	CES
Standard:	ISO 8434-1
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN	Size	Inches	Series	G1	for external pipe Ø mm	L1 mm	S1
PA 720 HS 16	19	12	3/4"	S	M 30 x 2	20	97,0	32
PA 720 HS	19	12	3/4"	S	M 36 x 2	25	99,0	41
PA 725 HS	25	16	1"	S	M 42 x 2	30	117,0	46
PA 532 HS A	31	20	1.1/4"	S	M 52 x 2	38	126,0	55

Product versions:**PA 500 HS VA** - Swage fitting, CES

PA 500 A 90 A**Swage fitting, DKM angle 90°**

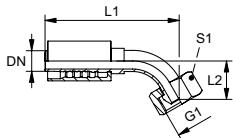
Swage fitting for HD 500 hoses
metric nut thread
60° sealing head
DKM
DIN 3863
without pull-out protection
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	Working pressure bar	G1	L1 mm	L2 mm	S1
PA 532 A 90 A	31	20	1.1/4"	WP 63 bar	M 45 x 1.5	112,5	81,0	50
PA 540 A 90 A	38	24	1.1/2"	WP 63 bar	M 52 x 1.5	125,5	92,0	60
PA 550 A 90 A	51	32	2"	WP 40 bar	M 65 x 2	142,0	116,0	75

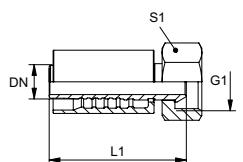
PA 500 A 45 A**Swage fitting, DKM angle 45°**

Application: Swage fitting for HD 500 hoses
Connection 1: metric nut thread
Sealing form 1: 60° sealing head
Short code: DKM
Standard: DIN 3863
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	Working pressure bar	G1	L1 mm	L2 mm	S1
PA 532 A 45 A	31	20	1.1/4"	WP 63 bar	M 45 x 1.5	112,5	41,7	50
PA 540 A 45 A	38	24	1.1/2"	WP 63 bar	M 52 x 1.5	125,5	43,1	60
PA 550 A 45 A	51	32	2"	WP 40 bar	M 65 x 2	142,0	51,6	75

PA 500 A A**Swage fitting, DKM**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

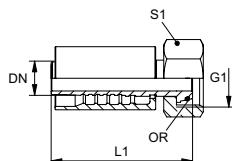
Swage fitting for HD 500 hoses
metric nut thread
60° sealing head
DKM
DIN 3863
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	Working pressure bar	G1	L1 mm	S1
PA 532 A A	31	20	1.1/4"	WP 63 bar	M 45 x 1.5	105,5	50
PA 540 A A	38	24	1.1/2"	WP 63 bar	M 52 x 1.5	118,5	60
PA 550 A A	51	32	2"	WP 40 bar	M 65 x 2	133,5	75

PA 500 AOB A**Swage fitting, DKOR**

Application:	Swage fitting for HD 500 hoses
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

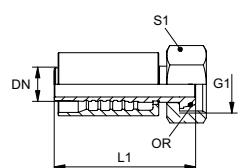


2

Identification	DN	Size	Inches	G1	L1 mm	S1	OR
PA 720 AOB	19	12	3/4"	G 3/4"-14	88,0	32	17,1 x 1,6
PA 725 AOB	25	16	1"	G 1"-11	102,5	41	22,1 x 1,6
PA 532 AOB A	31	20	1,1/4"	G 1,1/4"-11	116,0	50	29,1 x 1,6
PA 540 AOB A	38	24	1,1/2"	G 1,1/2"-11	133,5	55	35,1 x 1,6
PA 550 AOB A	51	32	2"	G 2"-11	147,0	70	48,1 x 1,6

Product versions:

PA 500 AOB VA - Swage fitting, DKOR, Stainless steel

PA 500 AOB A H**Swage fitting, DKOR**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Additional feature:
Material:
Surface:
Description:

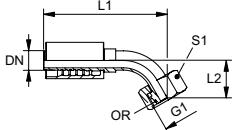
Swage fitting for HD 500 hoses
BSP nut thread
60° outer cone with O-ring
DKOR
ISO 8434-6, BS 5200
with pull-out protection (interlock)
Swage nipple + swage ferrule
for breaker operation
Steel
electro galvanised
Reinforced design for extreme loads,
e.g. use in hammers.

2

Identification	DN	Size	Inches	G1	L1 mm	S1	OR
PA 720 AOB H	19	12	3/4"	G 3/4"-14	96,5	32	17,1 x 1,6
PA 725 AOB H	25	16	1"	G 1"-11	103,0	41	22,1 x 1,6
PA 532 AOB A H	31	20	1,1/4"	G 1,1/4"-11	114,0	50	29,1 x 1,6

PA 500 AOB 45 A**Swage fitting, DKOR angle 45°**

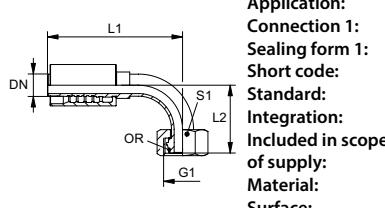
Application:	Swage fitting for HD 500 hoses
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PA 720 AOB 45	19	12	3/4"	G 3/4"-14	140,0	34,5	32	17,1 x 1,6
PA 725 AOB 45	25	16	1"	G 1"-11	169,5	39,0	41	22,1 x 1,6
PA 532 AOB 45 A	31	20	1.1/4"	G 1.1/4"-11	201,0	51,5	50	29,1 x 1,6
PA 540 AOB 45 A	38	24	1.1/2"	G 1.1/2"-11	235,0	60,0	60	35,1 x 1,6
PA 550 AOB 45 A	51	32	2"	G 2"-11	279,0	68,5	70	48,1 x 1,6

Product versions:**PA 500 AOB 45 VA** - Swage fitting, DKOR angle 45°, Stainless steel

PA 500 AOB 90 A**Swage fitting, DKOR angle 90°****Application:****Connection 1:****Sealing form 1:****Short code:****Standard:****Integration:****Included in scope of supply:****Material:****Surface:**

Swage fitting for HD 500 hoses

BSP nut thread

60° outer cone with O-ring

DKOR

ISO 8434-6, BS 5200

with pull-out protection (interlock)

Swage nipple + swage ferrule

Steel

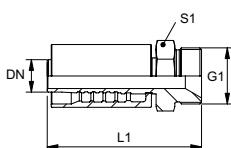
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PA 720 AOB 90	19	12	3/4"	G 3/4" -14	127,5	68,2	32	17,1 x 1,6
PA 725 AOB 90	25	16	1"	G 1"-11	158,0	81,7	41	22,1 x 1,6
PA 532 AOB 90 A	31	20	1 1/4"	G 1 1/4"-11	182,0	106,5	50	29,1 x 1,6
PA 540 AOB 90 A	38	24	1 1/2"	G 1 1/2"-11	215,5	123,5	60	35,1 x 1,6
PA 550 AOB 90 A	51	32	2"	G 2"-11	250,5	146,0	70	48,1 x 1,6

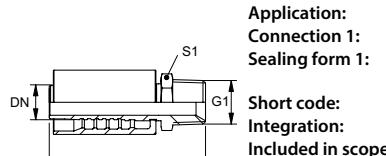
PA 500 HB A**Swage fitting, AGR**

Application: Swage fitting for HD 500 hoses
Connection 1: BSP external thread, cylindrical
Sealing form 1: 60° inner cone
Short code: AGR
Standard: ISO 8434-6, BS 5200
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	S1
PA 720 HB	19	12	3/4"	G 3/4" -14	97,5	32
PA 725 HB	25	16	1"	G 1" -11	114,5	41
PA 532 HB A	31	20	1.1/4"	G 1 1/4" -11	125,5	50
PA 540 HB A	38	24	1.1/2"	G 1 1/2" -11	143,5	55
PA 550 HB A	51	32	2"	G 2" -11	162,0	70

PA 500 HN A**Swage fitting, AGN**

Application:
Connection 1:
Sealing form 1:

Short code:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 500 hoses
NPT external threads
thread seal, additional 60° inner cone.
AGN
with pull-out protection (interlock)

Swage nipple + swage ferrule
Steel
electro galvanised

2

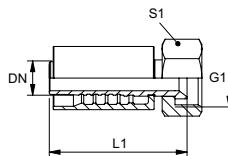
Identification	DN	Size	Inches	G1	L1 mm	S1
PA 720 HN	19	12	3/4"	3/4"-14 NPT	98,0	27
PA 725 HN	25	16	1"	1"-11.5 NPT	116,0	36
PA 725 HN 32	25	16	1"	1.1/4"-11.5 NPT	118,0	46
PA 532 HN A	31	20	1.1/4"	1.1/4"-11.5 NPT	124,5	46
PA 540 HN A	38	24	1.1/2"	1.1/2"-11.5 NPT	139,5	50
PA 550 HN A	51	32	2"	2"-11.5 NPT	157,0	65

Product versions:

PA 500 HN VA - Swage fitting, AGN, Stainless steel

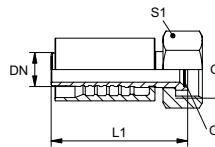
PA 500 AJ AH**Swage fitting, DKJ**

Application:	Swage fitting for HD 500 hoses
Connection 1:	UN/UNF nut threads
Sealing form 1:	74° inner cone
Short code:	DKJ
Standard:	ISO 8434-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Additional feature:	for breaker operation
Material:	Steel
Surface:	electro galvanised
Description:	Reinforced design for extreme loads, e.g. use in hammers.



2

Identification	DN	Size	Inches	G1	L1 mm	S1
PA 720 AJ H	19	12	3/4"	1.1/16"-12 UN	91,5	32
PA 725 AJ H	25	16	1"	1.5/16"-12 UN	98,2	41
PA 725 AJ 32 H	25	16	1"	1.5/8"-12 UN	111,0	50
PA 532 AJ AH	31	20	1.1/4"	1.5/8"-12 UN		

PA 500 AOJ A**Swage fitting, DKOJ**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

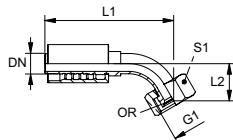
Swage fitting for HD 500 hoses
UN/UNF nut threads
74° inner cone with O-ring
DKOJ
ISO 8434-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	S1	OR
PA 720 AOJ	19	12	3/4"	1.1/16"-12 UN	90,0	32	19.00 x 1.50
PA 725 AOJ	25	16	1"	1.5/16"-12 UN	103,5	41	25.00 x 1.50
PA 532 AOJ A	31	20	1.1/4"	1.5/8"-12 UN	115,0	50	31.47 x 1.78
PA 540 AOJ A	38	24	1.1/2"	1.7/8"-12 UN	132,0	55	37.82 x 1.78
PA 550 AOJ A	51	32	2"	2.1/2"-12 UN	146,0	75	50.00 x 2.00

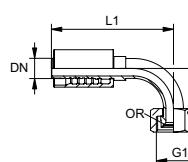
PA 500 AOJ 45 A**Swage fitting, DKOJ angle 45°**

Application:	Swage fitting for HD 500 hoses
Connection 1:	UN/UNF nut threads
Sealing form 1:	74° inner cone with O-ring
Short code:	DKOJ
Standard:	ISO 8434-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PA 720 AOJ 45	19	12	3/4"	1.1/16"-12 UN	140,0	34,5	32	19,00 x 1,50
PA 725 AOJ 45	25	16	1"	1.5/16"-12 UN	169,5	39,0	41	25,00 x 1,50
PA 532 AOJ 45 A	31	20	1.1/4"	1.5/8"-12 UN	199,0	49,5	50	31,47 x 1,78
PA 540 AOJ 45 A	38	24	1.1/2"	1.7/8"-12 UN	233,0	58,0	55	37,82 x 1,78
PA 550 AOJ 45 A	51	32	2"	2.1/2"-12 UN	275,0	64,0	75	50,00 x 2,00

PA 500 AOJ 90 A**Swage fitting, DKOJ angle 90°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

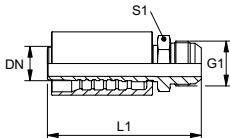
Swage fitting for HD 500 hoses
UN/UNF nut threads
74° inner cone with O-ring
DKOJ
ISO 8434-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PA 720 AOJ 90	19	12	3/4"	1.1/16"-12 UN	127,5	68,2	32	19,00 x 1,50
PA 725 AOJ 90	25	16	1"	1.5/16"-12 UN	158,0	81,7	41	25,00 x 1,50
PA 532 AOJ 90 A	31	20	1.1/4"	1.5/8"-12 UN	182,0	104,0	50	31,47 x 1,78
PA 540 AOJ 90 A	38	24	1.1/2"	1.7/8"-12 UN	215,5	120,5	55	37,82 x 1,78
PA 550 AOJ 90 A	51	32	2"	2.1/2"-12 UN	250,5	140,0	75	50,00 x 2,00

PA 500 HJ A**Swage fitting, AGJ**

Application:	Swage fitting for HD 500 hoses
Connection 1:	UN/UNF external threads
Sealing form 1:	74° outer cone
Short code:	AGJ
Standard:	ISO 8434-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

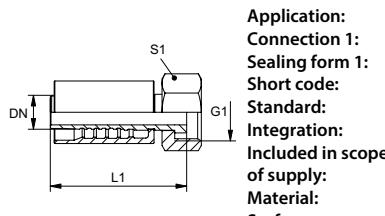


2

Identification	DN	Size	Inches	G1	L1 mm	S1
PA 720 HJ	19	12	3/4"	1.1/16"-12 UN	102,5	27
PA 725 HJ	25	16	1"	1.5/16"-12 UN	117,0	36
PA 532 HJ A	31	20	1.1/4"	1.5/8"-12 UN	127,0	46
PA 532 HJ 40 A	31	20	1.1/4"	1.7/8"-12 UN		
PA 540 HJ A	38	24	1.1/2"	1.7/8"-12 UN	145,5	50
PA 540 HJ 50 A	38	24	1.1/2"	2.1/2"-12 UN		
PA 550 HJ A	51	32	2"	2.1/2"-12 UN	169,5	65

Product versions:

PA 500 HJ VA - Swage fitting, AGJ, Stainless steel

PA 500 AJF A**Swage fitting, ORFS**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 500 hoses
UN/UNF nut threads
flat sealing
ORFS
ISO 8434-3
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

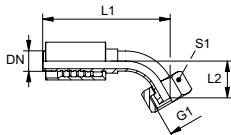
2

Identification	DN	Size	Inches	G1	L1 mm	S1
PA 720 AJF	19	12	3/4"	1.3/16"-12 UN	108,0	36
PA 720 AJF 25	19	12	3/4"	1.7/16"-12 UN	98,0	41
PA 725 AJF	25	16	1"	1.7/16"-12 UN	122,0	41
PA 532 AJF A	31	20	1.1/4"	1.11/16"-12 UN	129,0	50
PA 540 AJF A	38	24	1.1/2"	2"-12 UN	141,0	60

PA 500 AJF 45 A

Swage fitting, ORFS angle 45°

Application:	Swage fitting for HD 500 hoses
Connection 1:	UN/UNF nut threads
Sealing form 1:	flat sealing
Short code:	ORFS
Standard:	ISO 8434-3
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

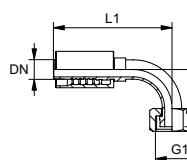


2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PA 720 AJF 45	19	12	3/4"	1.3/16"-12 UN	133,0	26,5	36
PA 725 AJF 45	25	16	1"	1.7/16"-12 UN	160,5	31,0	41
PA 532 AJF 45 A	31	20	1.1/4"	1.11/16"-12 UN	171,5	76,0	50
PA 540 AJF 45 A	38	24	1.1/2"	2"-12 UN	207,0	88,5	60

PA 500 AJF 90 A

Swage fitting, ORFS angle 90°



Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

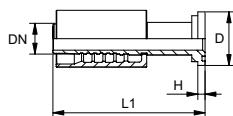
Swage fitting for HD 500 hoses
UN/UNF nut threads
flat sealing
ORFS
ISO 8434-3
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PA 720 AJF 90	19	12	3/4"	1.3/16"-12 UN	126,0	56,0	36
PA 725 AJF 90	25	16	1"	1.7/16"-12 UN	157,5	68,0	41
PA 532 AJF 90 A	31	20	1.1/4"	1.11/16"-12 UN	178,0	34,0	50
PA 540 AJF 90 A	38	24	1.1/2"	2"-12 UN	209,0	32,0	60

PA 500 SF A**Swage fitting, SFL**

Application:	Swage fitting for HD 500 hoses
Connection 1:	SAE flange connection 3000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFL
Standard:	SAE J518, ISO 6162-1
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

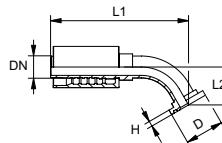
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PA 720 SF	19	12	3/4"	3/4"	38,1	6,8	116,5
PA 720 SF 25	19	12	3/4"	1"	44,5	8,1	119,5
PA 725 SF 20	25	16	1"	3/4"	38,1	6,8	132,0
PA 725 SF	25	16	1"	1"	44,5	8,1	135,5
PA 725 SF 32	25	16	1"	1.1/4"	50,8	8,1	138,5
PA 532 SF 25 A	31	20	1.1/4"	1"	44,5	8,1	145,0
PA 532 SF A	31	20	1.1/4"	1.1/4"	50,8	8,1	148,5
PA 532 SF 40 A	31	20	1.1/4"	1.1/2"	60,3	8,1	151,5
PA 540 SF 32 A	38	24	1.1/2"	1.1/4"	50,8	8,1	158,0
PA 540 SF A	38	24	1.1/2"	1.1/2"	60,3	8,1	166,5
PA 540 SF 50 A	38	24	1.1/2"	2"	71,4	9,6	169,5
PA 550 SF A	51	32	2"	2"	71,4	9,6	183,5

Product versions:

PA 500 SF VA - Swage fitting, SFL, Stainless steel

PA 500 SF 45 A

Swage fitting, SFL angle 45°



Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 500 hoses
SAE flange connection 3000 PSI
flat seal with SF O-ring
SFL
SAE J518, ISO 6162-1
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

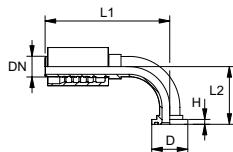
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 720 SF 45	19	12	3/4"	3/4"	38,1	6,8	132,5	27,5
PA 720 SF 25 45	19	12	3/4"	1"	44,5	8,1	134,5	29,5
PA 725 SF 20 45	25	16	1"	3/4"	38,1	6,8	153,0	30,0
PA 725 SF 45	25	16	1"	1"	44,5	8,1	159,0	28,5
PA 725 SF 32 45	25	16	1"	1 1/4"	50,8	8,1	161,0	30,5
PA 532 SF 25 45 A	31	20	1 1/4"	1"	44,5	8,0	170,5	35,0
PA 532 SF 45 A	31	20	1 1/4"	1 1/4"	50,8	8,0	182,0	34,5
PA 532 SF 40 45 A	31	20	1 1/4"	1 1/2"	60,3	8,0	187,0	37,5
PA 540 SF 32 45 A	38	24	1 1/2"	1 1/4"	50,8	8,0	202,5	43,0
PA 540 SF 45 A	38	24	1 1/2"	1 1/2"	60,3	8,0	215,0	41,5
PA 540 SF 50 45 A	38	24	1 1/2"	2"	71,4	9,5	230,5	55,5
PA 550 SF 45 A	51	32	2"	2"	71,4	9,5	263,0	58,5

Product versions:

PA 500 SF 45 VA - Swage fitting, SFL angle 45°, Stainless steel

PA 500 SF 90 A**Swage fitting, SFL angle 90°**

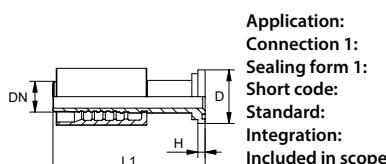
Application:	Swage fitting for HD 500 hoses
Connection 1:	SAE flange connection 3000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFL
Standard:	SAE J518, ISO 6162-1
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 720 SF 90	19	12	3/4"	3/4"	38,1	6,8	127,5	58,0
PA 720 SF 25 90	19	12	3/4"	1"	44,5	8,1	127,5	61,0
PA 725 SF 20 90	25	16	1"	3/4"	38,1	6,8	144,0	64,5
PA 725 SF 90	25	16	1"	1"	44,5	8,1	158,0	67,0
PA 725 SF 32 90	25	16	1"	1.1/4"	50,8	8,1	158,0	69,5
PA 532 SF 25 90 A	31	20	1.1/4"	1"	44,5	8,0	162,0	76,0
PA 532 SF 90 A	31	20	1.1/4"	1.1/4"	50,8	8,0	181,0	79,5
PA 532 SF 40 90 A	31	20	1.1/4"	1.1/2"	60,3	8,0	182,0	86,7
PA 540 SF 32 90 A	38	24	1.1/2"	1.1/4"	50,8	8,0	193,0	94,0
PA 540 SF 90 A	38	24	1.1/2"	1.1/2"	60,3	8,0	211,0	99,0
PA 540 SF 50 90 A	38	24	1.1/2"	2"	71,4	9,5	218,0	100,0
PA 550 SF 90 A	51	32	2"	2"	71,4	9,5	250,0	112,5

Product versions:**PA 500 SF 90 VA - Swage fitting, SFL angle 90°, Stainless steel**

PA 500 SF6 A**Swage fitting, SFS****Application:****Connection 1:****Sealing form 1:****Short code:****Standard:****Integration:****Included in scope of supply:****Material:****Surface:**

Swage fitting for HD 500 hoses

SAE flange connection 6000 PSI

flat seal with SF O-ring

SFS

SAE J518, ISO 6162-2

with pull-out protection (interlock)

Swage nipple + swage ferrule

Steel

electro galvanised

2

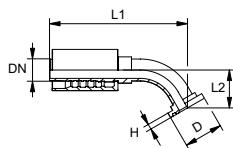
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PA 720 SF6	19	12	3/4"	3/4"	41,3	8,8	124,5
PA 720 SF6 25	19	12	3/4"	1"	47,6	9,6	129,0
PA 725 SF6 20	25	16	1"	3/4"	41,3	8,8	134,0
PA 725 SF6	25	16	1"	1"	47,6	9,6	146,5
PA 725 SF6 32	25	16	1"	1.1/4"	54,0	10,4	151,0
PA 532 SF6 25 A	31	20	1.1/4"	1"	47,6	9,6	149,0
PA 532 SF6 A	31	20	1.1/4"	1.1/4"	54,0	10,4	162,5
PA 532 SF6 40 A	31	20	1.1/4"	1.1/2"	63,5	12,7	167,0
PA 540 SF6 32 A	38	24	1.1/2"	1.1/4"	54,0	10,4	162,0
PA 540 SF6 A	38	24	1.1/2"	1.1/2"	63,5	12,7	183,5
PA 540 SF6 50 A	38	24	1.1/2"	2"	79,4	12,7	188,0
PA 550 SF6 A	51	32	2"	2"	79,4	12,7	202,0

Product versions:

PA 500 SF6 VA - Swage fitting, SFS, Stainless steel

PA 500 SF6 45 A**Swage fitting, SFS angle 45°**

Application:	Swage fitting for HD 500 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

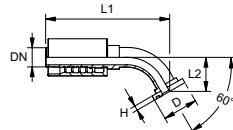


2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 720 SF6 45	19	12	3/4"	3/4"	41,3	8,8	135,5	30,0
PA 720 SF6 25 45	19	12	3/4"	1"	47,6	9,6	139,5	34,5
PA 725 SF6 45	25	16	1"	1"	47,6	9,6	164,0	33,5
PA 725 SF6 32 45	25	16	1"	1.1/4"	54,0	10,4	169,0	38,5
PA 532 SF6 25 45 A	31	20	1.1/4"	1"	47,6	9,5		
PA 532 SF6 45 A	31	20	1.1/4"	1.1/4"	54,0	10,3	191,0	41,5
PA 532 SF6 40 45 A	31	20	1.1/4"	1.1/2"	63,5	12,6	197,0	47,5
PA 540 SF6 45 A	38	24	1.1/2"	1.1/2"	63,5	12,6	222,5	49,0
PA 540 SF6 32 45 A	38	24	1.1/2"	1.1/4"	54,0	10,3		
PA 540 SF6 50 45 A	38	24	1.1/2"	2"	79,4	12,6	236,0	61,0
PA 550 SF6 45 A	51	32	2"	2"	79,4	12,6	275,0	64,5

Product versions:

PA 500 SF6 45 VA - Swage fitting, SFS angle 45°, Stainless steel

PA 700 SF6 60**Swage fitting, SFS angle 60°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

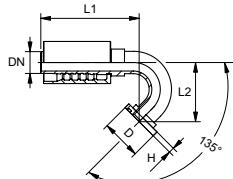
Swage fitting for HD 500 hoses
SAE flange connection 6000 PSI
flat seal with SF O-ring
SFS
SAE J518, ISO 6162-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	Flange size	D mm	H mm
PA 725 SF6 60	25	16	1"	1"	47,6	9,5

PA 700 SF6 135**Swage fitting, SFS angle 135°**

Application:	Swage fitting for HD 500 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

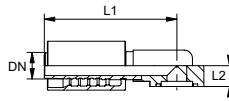


2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 725 SF6 135	25	16	1"	1"	47,6	9,5	170,0	100,0

PA 500 SF6 90 4 KA

Swage fitting, SFS angle 90°



Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 500 hoses
SAE flange connection 6000 PSI
flat seal with SF O-ring
SFS
SAE J518, ISO 6162-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

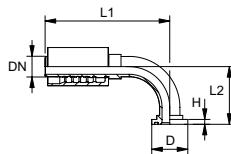
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Identification	DN	Size	Inches	Flange size
PA 720 SF6 90 4 K	19	12	3/4"	-
PA 725 SF6 90 4 K	25	16	1"	-

PA 500 SF6 90 A

Swage fitting, SFS angle 90°

Application:	Swage fitting for HD 500 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

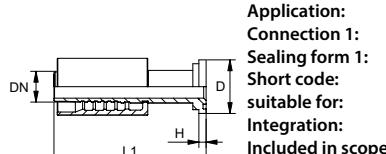


2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 720 SF6 90	19	12	3/4"	3/4"	41,3	8,8	127,5	62,0
PA 720 SF6 25 90	19	12	3/4"	1"	47,6	9,6	127,5	68,0
PA 725 SF6 20 90	25	16	1"	3/4"	41,3	8,8	152,5	70,5
PA 725 SF6 90	25	16	1"	1"	47,6	9,6	158,0	74,0
PA 532 SF6 25 90 A	31	20	1.1/4"	1"	47,6	9,5	162,0	80,0
PA 532 SF6 90 A	31	20	1.1/4"	1.1/4"	54,0	10,3	182,0	92,7
PA 532 SF6 40 90 A	31	20	1.1/4"	1.1/2"	63,5	12,6	182,0	101,2
PA 540 SF6 32 90 A	38	24	1.1/2"	1.1/4"	54,0	10,3	193,0	100,0
PA 540 SF6 90 A	38	24	1.1/2"	1.1/2"	63,5	12,6	215,5	110,0
PA 540 SF6 50 90 A	38	24	1.1/2"	2"	79,4	12,6	215,5	126,0
PA 550 SF6 90 A	51	32	2"	2"	79,4	12,6	250,5	141,0

Product versions:

PA 500 SF6 90 VA - Swage fitting, SFS angle 90°, Stainless steel

PA 500 SF9 A**Swage fitting, SFS-CAT**

Application:
Connection 1:
Sealing form 1:
Short code:
suitable for:
Integration:
Included in scope of supply:
Material:
Surface:

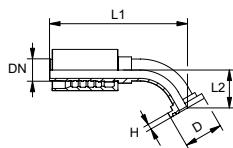
Swage fitting for HD 500 hoses
SAE flange connection 6000 PSI
flat seal with SF O-ring
SFS-CAT
Caterpillar
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PA 720 SF9	19	12	3/4"	3/4"	41,3	14,3	130,0
PA 720 SF9 25	19	12	3/4"	1"	47,6	14,6	133,5
PA 725 SF9 20	25	16	1"	3/4"	41,3	14,6	137,0
PA 725 SF9	25	16	1"	1"	47,6	14,6	150,0
PA 725 SF9 32	25	16	1"	1.1/4"	54,0	14,6	155,0
PA 532 SF9 25 A	31	20	1.1/4"	1"	47,6	14,6	150,0
PA 532 SF9 A	31	20	1.1/4"	1.1/4"	54,0	14,6	166,5
PA 532 SF9 40 A	31	20	1.1/4"	1.1/4"	63,5	14,6	168,5
PA 540 SF9 32 A	38	24	1.1/2"	1.1/4"	54,0	14,6	163,0
PA 540 SF9 A	38	24	1.1/2"	1.1/2"	63,5	14,6	185,0

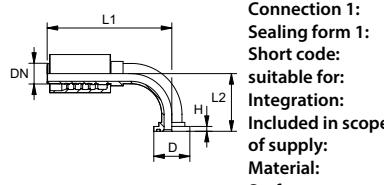
PA 500 SF9 45 A**Swage fitting, SFS-CAT angle 45°**

Application:	Swage fitting for HD 500 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS-CAT
suitable for:	Caterpillar
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 720 SF9 45	19	12	3/4"	3/4"	41,3	14,2	139,0	34,0
PA 720 SF9 25 45	19	12	3/4"	1"	47,6	14,2	143,0	37,5
PA 725 SF9 20 45	25	16	1"	3/4"	41,3	14,2	157,0	35,0
PA 725 SF9 45	25	16	1"	1"	47,6	14,2	167,0	36,5
PA 725 SF9 32 45	25	16	1"	1.1/4"	54,0	14,2	172,0	41,5
PA 532 SF9 25 45 A	31	20	1.1/4"	1"	47,6	14,0	174,0	39,5
PA 532 SF9 45 A	31	20	1.1/4"	1.1/4"	54,0	14,0	194,0	44,5
PA 532 SF9 40 45 A	31	20	1.1/4"	1.1/2"	63,5	14,0	198,0	48,5
PA 540 SF9 32 45 A	38	24	1.1/2"	1.1/4"	54,0	14,0	205,5	47,0
PA 540 SF9 45 A	38	24	1.1/2"	1.1/2"	63,5	14,0	226,0	51,0

PA 500 SF9 90 A**Swage fitting, SFS-CAT angle 90°**

Swage fitting for HD 500 hoses
 SAE flange connection 6000 PSI
 flat seal with SF O-ring
 SFS-CAT
 Caterpillar
 with pull-out protection (interlock)

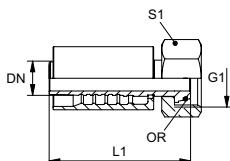
Swage nipple + swage ferrule
 Steel
 electro galvanised

2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 720 SF9 90	19	12	3/4"	3/4"	41,3	14,2	127,5	67,5
PA 720 SF9 25 90	19	12	3/4"	1"	47,6	14,2	127,5	72,5
PA 725 SF9 20 90	25	16	1"	3/4"	41,3	14,2	144,0	83,5
PA 725 SF9 90	25	16	1"	1"	47,6	14,2	158,0	78,5
PA 725 SF9 32 90	25	16	1"	1.1/4"	54,0	14,2	158,0	85,0
PA 532 SF9 25 90 A	31	20	1.1/4"	1"	47,6	14,0	161,0	82,0
PA 532 SF9 90 A	31	20	1.1/4"	1.1/4"	54,0	14,0	182,0	97,0
PA 532 SF9 40 90 A	31	20	1.1/4"	1.1/2"	63,5	14,0	182,0	103,0
PA 540 SF9 32 90 A	38	24	1.1/2"	1.1/4"	54,0	14,0	192,0	100,0
PA 540 SF9 90 A	38	24	1.1/2"	1.1/2"	63,5	14,0	215,5	112,0

PA 600 AOB**Swage fitting, DKOR**

Application:	Swage fitting for HD 600 hoses
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

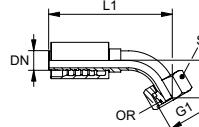


2

Identification	DN	Size	Inches	G1	L1 mm	S1	OR
PA 650 AOB	51	32	2"	G 2" -11	163,0	70	48,1 x 1,6

Product versions:

PA 600 AOB VA - Swage fitting, DKOR, Stainless steel

PA 600 AOB 45**Swage fitting, DKOR angle 45°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 600 hoses
BSP nut thread
60° outer cone with O-ring
DKOR
ISO 8434-6, BS 5200
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

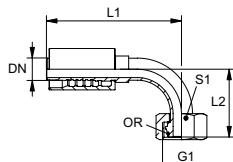
Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PA 650 AOB 45	51	32	2"	G 2"-11	279,0	68,5	70	48,1 x 1,6

Product versions:

PA 600 AOB 45 VA - Swage fitting, DKOR angle 45°, Stainless steel

PA 600 AOB 90**Swage fitting, DKOR angle 90°**

Application:	Swage fitting for HD 600 hoses
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

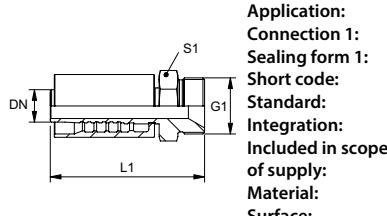


2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PA 650 AOB 90	51	32	2"	G 2"-11	250,0	146,0	70	48,1 x 1,6

Product versions:

PA 600 AOB 90 VA - Swage fitting, DKOR angle 90°, Stainless steel

PA 600 HB**Swage fitting, AGR**

Swage fitting for HD 600 hoses
BSP external thread, cylindrical
60° inner cone
AGR
ISO 8434-6, BS 5200
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

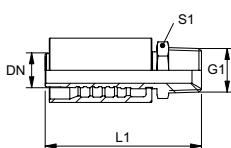
Identification	DN	Size	Inches	G1	L1 mm	S1
PA 650 HB	51	32	2"	G 2"-11	143,5	55

Product versions:

PA 600 HB VA - Swage fitting, AGR, Stainless steel

PA 600 HN**Swage fitting, AGN**

Application:	Swage fitting for HD 600 hoses
Connection 1:	NPT external threads
Sealing form 1:	thread seal, additional 60° inner cone.
Short code:	AGN
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

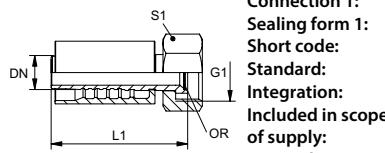


2

Identification	DN	Size	Inches	G1	L1 mm	S1
PA 650 HN	51	32	2"	2" -11.5 NPT	157,0	65

Product versions:

PA 600 HN VA - Swage fitting, AGN, Stainless steel

PA 600 AOJ**Swage fitting, DKOJ**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

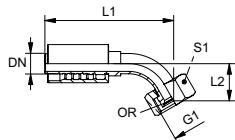
Swage fitting for HD 600 hoses
UN/UNF nut threads
74° inner cone with O-ring
DKOJ
ISO 8434-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	S1	OR
PA 650 AOJ	51	32	2"	2.1/2"-12 UN	170,0	75	50.0 x 2.0

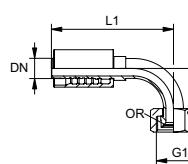
PA 600 AOJ 45**Swage fitting, DKOJ angle 45°**

Application: Swage fitting for HD 600 hoses
Connection 1: UN/UNF nut threads
Sealing form 1: 74° inner cone with O-ring
Short code: DKOJ
Standard: ISO 8434-2
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PA 650 AOJ 45	51	32	2"	2.1/2"-12 UN	275,0	64,0	75	50,0 x 2,0

PA 600 AOJ 90**Swage fitting, DKOJ angle 90°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

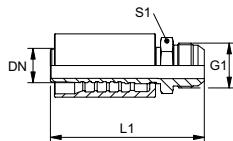
Swage fitting for HD 600 hoses
UN/UNF nut threads
74° inner cone with O-ring
DKOJ
ISO 8434-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PA 650 AOJ 90	51	32	2"	2.1/2"-12 UN	250,5	140,0	75	50,0 x 2,0

PA 600 HJ**Swage fitting, AGJ**

Application:	Swage fitting for HD 600 hoses
Connection 1:	UN/UNF external threads
Sealing form 1:	74° outer cone
Short code:	AGJ
Standard:	ISO 8434-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

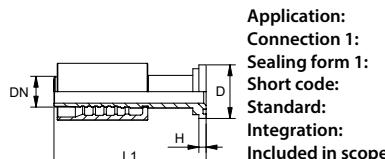


2

Identification	DN	Size	Inches	G1	L1 mm	S1
PA 650 HJ	51	32	2"	2 1/2" -12 UN	169,0	65

Product versions:

PA 600 HJ VA - Swage fitting, AGJ, Stainless steel

PA 600 SF**Swage fitting, SFL**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 600 hoses
SAE flange connection 3000 PSI
flat seal with SF O-ring
SFL
SAE J518, ISO 6162-1
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

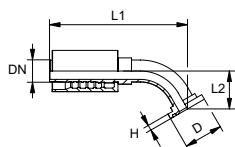
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PA 650 SF	51	32	2"	2"	71,4	9,6	183,5

Product versions:

PA 600 SF VA - Swage fitting, SFL, Stainless steel

PA 600 SF 45**Swage fitting, SFL angle 45°**

Application: Swage fitting for HD 600 hoses
Connection 1: SAE flange connection 3000 PSI
Sealing form 1: flat seal with SF O-ring
Short code: SFL
Standard: SAE J518, ISO 6162-1
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised

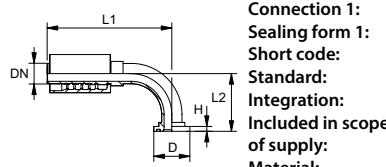


2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 650 SF 45	51	32	2"	2"	71,4	9,6	261,5	58,5

Product versions:

PA 600 SF 45 VA - Swage fitting, SFL angle 45°, Stainless steel

PA 600 SF 90**Swage fitting, SFL angle 90°**

Application: Swage fitting for HD 600 hoses
Connection 1: SAE flange connection 3000 PSI flat seal with SF O-ring
Short code: SFL
Standard: SAE J518, ISO 6162-1
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised

2

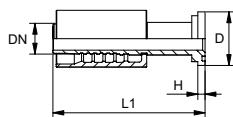
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 650 SF 90	51	32	2"	2"	71,4	9,6	248,5	122,5

Product versions:

PA 600 SF 90 VA - Swage fitting, SFL angle 90°, Stainless steel

PA 600 SF6**Swage fitting, SFS**

Application:	Swage fitting for HD 600 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

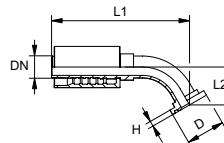
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PA 650 SF6	51	32	2"	2"	79,4	12,7	202,0

Product versions:

PA 600 SF6 VA - Swage fitting, SFS, Stainless steel

PA 600 SF6 45

Swage fitting, SFS angle 45°



Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 600 hoses
SAE flange connection 6000 PSI
flat seal with SF O-ring
SFS
SAE J518, ISO 6162-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 650 SF6 45	51	32	2"	2"	79,4	12,6	275,0	64,5

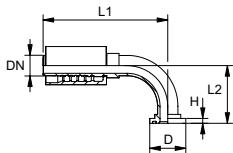
Product versions:

PA 600 SF6 45 VA - Swage fitting, SFS angle 45°, Stainless steel

PA 600 SF6 90

Swage fitting, SFS angle 90°

Application:	Swage fitting for HD 600 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

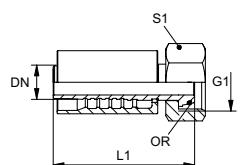


2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 650 SF6 90	51	32	2"	2"	79,4	12,6	250,0	141,0

Product versions:

PA 600 SF6 90 VA - Swage fitting, SFS angle 90°, Stainless steel

PA 700 AOL**Swage fitting, DKOL**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 700 hoses
metric nut thread
24° outer cone with O-ring
DKOL
ISO 8434-1
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

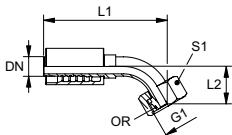
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	OR
PA 710 AOL	10	6	3/8"	M 18 x 1.5	12	69,3	22	9,0 x 1,5
PA 713 AOL	12	8	1/2"	M 22 x 1.5	15	70,8	27	12,0 x 2,0
PA 716 AOL	16	10	5/8"	M 26 x 1.5	18	88,2	32	15,0 x 2,0
PA 716 AOL 20	16	10	5/8"	M 30 x 2	22	86,0	36	20,0 x 2,0

Product versions:

PA 700 AOL VA - Swage fitting, DKOL, Stainless steel

PA 700 AOL 45**Swage fitting, DKOL angle 45°**

Application:	Swage fitting for HD 700 hoses
Connection 1:	metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOL
Standard:	ISO 8434-1
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

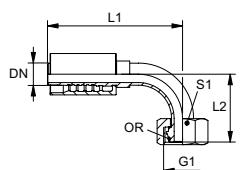


2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
PA 710 AOL 45	10	6	3/8"	M 18 x 1.5	12	82,5	19,5	22	10,5 x 1,5
PA 713 AOL 45	12	8	1/2"	M 22 x 1.5	15	93,5	21,0	27	12,0 x 2,0
PA 716 AOL 45	16	10	5/8"	M 26 x 1.5	18	115,0	26,5	32	15,0 x 2,0

Product versions:

PA 700 AOL 45 VA - Swage fitting, DKOL angle 45°, Stainless steel

PA 700 AOL 90**Swage fitting, DKOL angle 90°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 700 hoses
metric nut thread
24° outer cone with O-ring
DKOL
ISO 8434-1
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

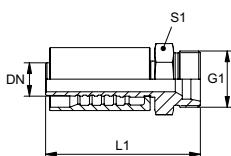
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
PA 710 AOL 90	10	6	3/8"	M 18 x 1.5	12	77,5	37,0	22	10,5 x 1,5
PA 713 AOL 90	12	8	1/2"	M 22 x 1.5	15	85,5	42,0	27	12,0 x 2,0
PA 716 AOL 90	16	10	5/8"	M 26 x 1.5	18	106,5	52,5	32	15,0 x 2,0

Product versions:

PA 700 AOL 90 VA - Swage fitting, DKOL angle 90°, Stainless steel

PA 700 HL**Swage fitting, CEL**

Application:	Swage fitting for HD 700 hoses
Connection 1:	metric cylindrical outer thread
Sealing form 1:	24° inner cone
Short code:	CEL / CES
Standard:	ISO 8434-1
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

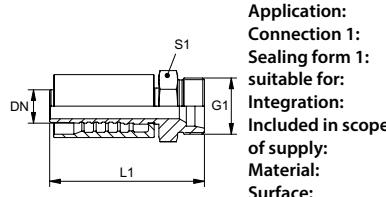


2

Identification	DN	Size	Inches	Series	G1	for external pipe Ø mm
PA 710 HL	10	6	3/8"	L	M 18 x 1.5	12
PA 713 HL	12	8	1/2"	L	M 22 x 1.5	15
PA 716 HL	16	10	5/8"	L	M 26 x 1.5	18

Product versions:

PA 700 HS VA - Swage fitting, CES, Stainless steel

PA 700 HL KO**Swage fitting, CEL**

Swage fitting for HD 700 hoses
metric cylindrical outer thread
24° inner cone
Kobelco
with pull-out protection (interlock)

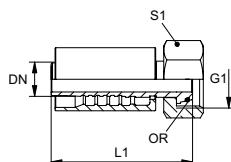
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	Series	G1	for external pipe Ø mm	S1
PA 725 HL KO	25	16	1"	L	M 36 x 1.5	28	36
PA 725 HL KO 32	25	16	1"	L	M 45 x 1.5	35	46

PA 700 AOS**Swage fitting, DKOS**

Application: Swage fitting for HD 700 hoses
Connection 1: metric nut thread
Sealing form 1: 24° outer cone with O-ring
Short code: DKOS
Standard: ISO 8434-1
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised

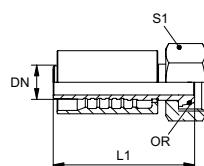


2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	S1	L1 mm	OR
PA 710 AOS 08	10	6	3/8"	M 20 x 1.5		24		10.0 x 1.5
PA 710 AOS	10	6	3/8"	M 22 x 1.5	14	27	67,6	12.0 x 2.0
PA 713 AOS	12	8	1/2"	M 24 x 1.5	16	30	72,8	13.0 x 2.0
PA 713 AOS 16	12	8	1/2"	M 30 x 2	20	36	75,8	17.5 x 2.5
PA 716 AOS 13	16	10	5/8"	M 24 x 1.5	16	30	83,5	13.0 x 2.0
PA 716 AOS	16	10	5/8"	M 30 x 2	20	36	86,0	17.5 x 2.5
PA 716 AOS 20	16	10	5/8"	M 36 x 2	25	46	89,0	20.0 x 2.5
PA 720 AOS 16	19	12	3/4"	M 30 x 2	20	36	96,0	16.0 x 2.5
PA 720 AOS	19	12	3/4"	M 36 x 2	25	46	99,0	20.0 x 2.5
PA 720 AOS SW41	19	12	3/4"	M 36 x 2	25	41	99,0	20.0 x 2.5
PA 720 AOS 25	19	12	3/4"	M 42 x 2	30	50	100,0	25.0 x 2.5
PA 725 AOS 20	25	16	1"	M 36 x 2	25	46	112,0	20.0 x 2.5
PA 725 AOS	25	16	1"	M 42 x 2	30	50	113,0	25.0 x 2.5
PA 725 AOS 32	25	16	1"	M 52 x 2	38	60	131,0	33.0 x 2.5
PA 732 AOS 25 S	31	20	1.1/4"	M 42 x 2	30	50	151,0	27.0 x 2.5
PA 732 AOS S	31	20	1.1/4"	M 52 x 2	38	60	112,5	33.0 x 2.5
PA 740 AOS 32	38	24	1.1/2"	M 52 x 2	38	60	136,5	33.0 x 2.5

Product versions:

PA 700 AOS VA - Swage fitting, DKOS, Stainless steel

PA 700 AOS H**Swage fitting, DKOS**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Additional feature:
Material:
Surface:
Description:

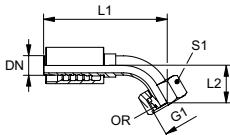
Swage fitting for HD 700 hoses
metric nut thread
24° outer cone with O-ring
DKOS
ISO 8434-1
with pull-out protection (interlock)
Swage nipple + swage ferrule
for breaker operation
Steel
electro galvanised
Reinforced design for extreme loads,
e.g. use in hammers.

2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	OR
PA 720 AOS H	19	12	3/4"	M 36 x 2	25	104,0	46	20,0 x 2,5
PA 725 AOS H	25	16	1"	M 42 x 2	30	111,0	50	25,0 x 2,5
PA 732 AOS SH	31	20	1.1/4"	M 52 x 2	38	114,0	60	33,0 x 2,5

PA 700 AOS 45**Swage fitting, DKOS angle 45°**

Application:	Swage fitting for HD 700 hoses
Connection 1:	metric nut thread
Sealing form 1:	24° outer cone with O-ring
Short code:	DKOS
Standard:	ISO 8434-1
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

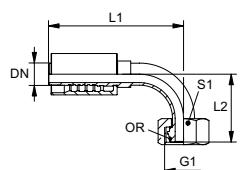


2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	L2 mm	OR
PA 710 AOS 08 45	10	6	3/8"	M 20 x 1.5	12		24		10,0 x 1,5
PA 710 AOS 45	10	6	3/8"	M 22 x 1.5	14	94,2	27		12,0 x 2,0
PA 713 AOS 45	12	8	1/2"	M 24 x 1.5	16	95,0	30	21,5	13,0 x 2,0
PA 713 AOS 16 45	12	8	1/2"	M 30 x 2	20	108,0	36	27,0	17,5 x 2,5
PA 716 AOS 45	16	10	3/8"	M 30 x 2	20	118,0	36	27,0	17,5 x 2,5
PA 720 AOS 16 45	19	12	3/4"	M 30 x 2	20	133,0	36	27,0	16,0 x 2,5
PA 720 AOS 45 SW41	19	12	3/4"	M 36 x 2	25	136,0	41	30,0	20,0 x 2,5
PA 720 AOS 45	19	12	3/4"	M 36 x 2	25	136,0	46	30,0	20,0 x 2,5
PA 720 AOS 25 45	19	12	3/4"	M 42 x 2	30	142,0	50	35,0	27,0 x 2,5
PA 725 AOS 20 45	25	16	1"	M 36 x 2	25	156,5	41	34,5	20,0 x 2,5
PA 725 AOS 45	25	16	1"	M 42 x 2	30	164,0	50	34,5	25,0 x 2,5
PA 725 AOS 32 45	25	16	1"	M 52 x 2	38	170,0	60	41,0	33,0 x 2,5
PA 732 AOS 25 45 S	31	20	1.1/4"	M 42 x 2	30	175,0	50	39,5	27,0 x 2,5
PA 732 AOS 45 S	31	20	1.1/4"	M 52 x 2	38	200,0	60	43,0	33,0 x 2,5

Product versions:

PA 700 AOS 45 VA - Swage fitting, DKOS angle 45°, Stainless steel

PA 700 AOS 90**Swage fitting, DKOS angle 90°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 700 hoses
metric nut thread
24° outer cone with O-ring
DKOS
ISO 8434-1
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

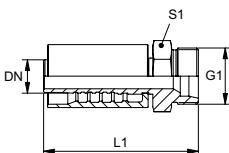
Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	L2 mm	OR
PA 710 AOS 08 90	10	6	3/8"	M 20 x 1.5	12		24		10,0 x 1,5
PA 710 AOS 90	10	6	3/8"	M 22 x 1.5	14	71,7	27		12,0 x 2,0
PA 713 AOS 90	12	8	1/2"	M 24 x 1.5	16	87,0	30	45,0	13,0 x 2,0
PA 713 AOS 16 90	12	8	1/2"	M 30 x 2	20	86,5	36	49,5	17,5 x 2,5
PA 716 AOS 90	16	10	3/8"	M 30 x 2	20	106,5	36	49,5	17,5 x 2,5
PA 720 AOS 16 90	19	12	3/4"	M 30 x 2	20	125,5	36	57,5	17,5 x 2,5
PA 720 AOS 90	19	12	3/4"	M 36 x 2	25	125,5	46	62,0	20,0 x 2,5
PA 720 AOS 90 SW41	19	12	3/4"	M 36 x 2	25	125,5	41	62,0	20,0 x 2,5
PA 720 AOS 25 90	19	12	3/4"	M 42 x 2	30	129,0	50	71,5	25,0 x 2,5
PA 725 AOS 20 90	25	16	1"	M 36 x 2	25	144,0	46	71,0	20,0 x 2,5
PA 725 AOS 90	25	16	1"	M 42 x 2	30	157,5	50	72,5	25,0 x 2,5
PA 725 AOS 32 90	25	16	1"	M 52 x 2	38	154,5	60	84,5	33,0 x 2,5
PA 732 AOS 25 90 S	31	20	1.1/4"	M 42 x 2	30	162,0	50	82,0	27,0 x 2,5
PA 732 AOS 90 S	31	20	1.1/4"	M 52 x 2	38	235,0	60	95,0	33,0 x 2,5

Product versions:

PA 700 AOS 90 VA - Swage fitting, DKOS angle 90°, Stainless steel

PA 700 HS**Swage fitting, CES**

Application:	Swage fitting for HD 700 hoses
Connection 1:	metric cylindrical outer thread
Sealing form 1:	24° inner cone
Short code:	CEL / CES
Standard:	ISO 8434-1
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

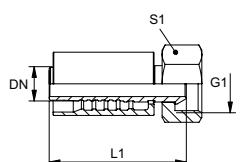


2

Identification	DN	Size	Inches	Series	G1	for external pipe Ø mm	L1 mm	S1
PA 710 HS 08	10	6	3/8"	S	M 20 x 1.5	12	67,8	22
PA 710 HS	10	6	3/8"	S	M 22 x 1.5	14	69,7	22
PA 713 HS	12	8	1/2"	S	M 24 x 1.5	16	75,0	24
PA 713 HS 16	12	8	1/2"	S	M 30 x 2	20		
PA 716 HS	16	10	5/8"	S	M 30 x 2	20	90,5	30
PA 720 HS 16	19	12	3/4"	S	M 30 x 2	20	97,0	32
PA 720 HS	19	12	3/4"	S	M 36 x 2	25	99,0	41
PA 725 HS	25	16	1"	S	M 42 x 2	30	117,0	46
PA 732 HS S	31	20	1.1/4"	S	M 52 x 2	38	123,0	55

Product versions:

PA 700 HS VA - Swage fitting, CES, Stainless steel

PA 700 AB**Swage fitting, DKR**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

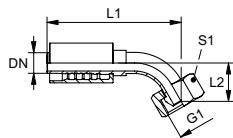
Swage fitting for HD 700 hoses
 BSP nut thread
 60° outer cone
 DKR
 ISO 8434-6, BS 5200
 with pull-out protection (interlock)
 Swage nipple + swage ferrule
 Steel
 electro galvanised

2

Identification	DN	Size	Inches	G1	S1
PA 716 AB 13	16	10	5/8"	G 1 1/2" -14	27
PA 716 AB	16	10	5/8"	G 5/8" -14	30
PA 716 AB 20	16	10	5/8"	G 3/4" -14	32

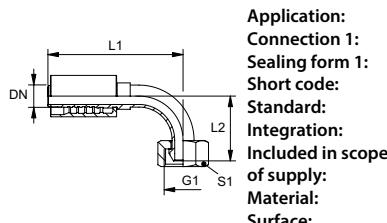
PA 700 AB 45**Swage fitting, DKR angle 45°**

Application: Swage fitting for HD 700 hoses
Connection 1: BSP nut thread
Sealing form 1: 60° outer cone
Short code: DKR
Standard: ISO 8434-6, BS 5200
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	G1	S1
PA 716 AB 45	16	10	5/8"	G 5/8" -14	30
PA 716 AB 20 45	16	10	5/8"	G 3/4" -14	32

PA 700 AB 90**Swage fitting, DKR angle 90°**

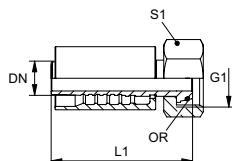
Swage fitting for HD 700 hoses
 BSP nut thread
 60° outer cone
 DKR
 ISO 8434-6, BS 5200
 with pull-out protection (interlock)
 Swage nipple + swage ferrule
 Steel
 electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	SW mm	S1
PA 716 AB 90	16	10	5/8"	G 5/8"-14	115,0	50,0	50	30
PA 716 AB 20 90	16	10	5/8"	G 3/4"-14	115,0	54,0		32

PA 700 AOB**Swage fitting, DKOR**

Application:	Swage fitting for HD 700 hoses
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

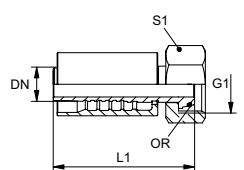


2

Identification	DN	Size	Inches	G1	L1 mm	S1	OR
PA 713 AOB	12	8	1/2"	G 1/2"-14	69,3	27	12,1 x 1,6
PA 720 AOB	19	12	3/4"	G 3/4"-14	88,0	32	17,1 x 1,6
PA 725 AOB	25	16	1"	G 1"-11	102,5	41	22,1 x 1,6
PA 732 AOB	31	20	1 1/4"	G 1 1/4"-11	116,0	50	29,1 x 1,6
PA 740 AOB	38	24	1 1/2"	G 1 1/2"-11	133,5	55	35,1 x 1,6
PA 740 AOB 50	38	24	1 1/2"	G 2"-11	143,2	70	48,1 x 1,6

Product versions:

PA 700 AOB VA - Swage fitting, DKOR, Stainless steel

PA 700 AOB H**Swage fitting, DKOR**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Additional feature:
Material:
Surface:
Description:

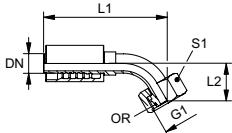
Swage fitting for HD 700 hoses
BSP nut thread
60° outer cone with O-ring
DKOR
ISO 8434-6, BS 5200
with pull-out protection (interlock)
Swage nipple + swage ferrule
for breaker operation
Steel
electro galvanised
Reinforced design for extreme loads,
e.g. use in hammers.

2

Identification	DN	Size	Inches	G1	L1 mm	S1	OR
PA 720 AOB H	19	12	3/4"	G 3/4"-14	96,5	32	17,1 x 1,6
PA 725 AOB H	25	16	1"	G 1"-11	103,0	41	22,1 x 1,6

PA 700 AOB 45**Swage fitting, DKOR angle 45°**

Application:	Swage fitting for HD 700 hoses
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone with O-ring
Short code:	DKOR
Standard:	ISO 8434-6, BS 5200
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

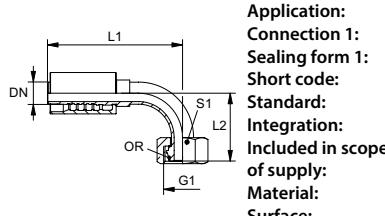


2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PA 713 AOB 45	12	8	1/2"	G 1/2" -14	91,5	20,0	27	12.1 x 1.6
PA 720 AOB 45	19	12	3/4"	G 3/4" -14	140,0	34,5	32	17.1 x 1.6
PA 725 AOB 45	25	16	1"	G 1" -11	169,5	39,0	41	22.1 x 1.6
PA 732 AOB 45	31	20	1.1/4"	G 1.1/4" -11	201,0	51,5	50	29.1 x 1.6
PA 740 AOB 45	38	24	1.1/2"	G 1.1/2" -11	235,0	60,0	60	35.1 x 1.6

Product versions:

PA 700 AOB 45 VA - Swage fitting, DKOR angle 45°, Stainless steel

PA 700 AOB 90**Swage fitting, DKOR angle 90°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 700 hoses
BSP nut thread
60° outer cone with O-ring
DKOR
ISO 8434-6, BS 5200
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

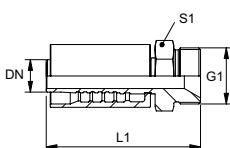
Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PA 713 AOB 90	12	8	1/2"	G 1/2"-14	87,0	40,5	27	12,1 x 1,6
PA 720 AOB 90	19	12	3/4"	G 3/4"-14	127,5	68,2	32	17,1 x 1,6
PA 725 AOB 90	25	16	1"	G 1"-11	158,0	81,7	41	22,1 x 1,6
PA 732 AOB 90	31	20	1.1/4"	G 1.1/4"-11	182,0	106,5	50	29,1 x 1,6
PA 740 AOB 90	38	24	1.1/2"	G 1.1/2"-11	215,5	123,5	60	35,1 x 1,6

Product versions:

PA 700 AOB 90 VA - Swage fitting, DKOR angle 90°, Stainless steel

PA 700 HB**Swage fitting, AGR**

Application: Swage fitting for HD 700 hoses
Connection 1: BSP external thread, cylindrical
Sealing form 1: 60° inner cone
Short code: AGR
Standard: ISO 8434-6, BS 5200
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised

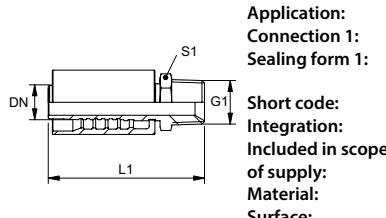


2

Identification	DN	Size	Inches	G1	L1 mm	S1
PA 713 HB	12	8	1/2"	G 1/2"-14	79,3	27
PA 716 HB	16	10	5/8"	G 5/8"-14	92,8	30
PA 720 HB	19	12	3/4"	G 3/4"-14	97,5	32
PA 725 HB	25	16	1"	G 1"-11	114,5	41
PA 732 HB	31	20	1.1/4"	G 1.1/4"-11	125,5	50
PA 740 HB	38	24	1.1/2"	G 1.1/2"-11	143,5	55
PA 750 HB	51	32	2"	G 2"-11		

Product versions:

PA 700 HB VA - Swage fitting, AGR, Stainless steel

PA 700 HN**Swage fitting, AGN**

Swage fitting for HD 700 hoses
NPT external threads
thread seal, additional 60° inner cone.
AGN
with pull-out protection (interlock)

Swage nipple + swage ferrule
Steel
electro galvanised

2

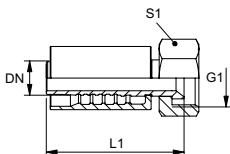
Identification	DN	Size	Inches	G1	L1 mm	S1
PA 720 HN	19	12	3/4"	3/4"-14 NPT	98,0	27
PA 725 HN	25	16	1"	1"-11.5 NPT	116,0	36
PA 732 HN	31	20	1.1/4"	1.1/4"-11.5 NPT	124,5	46
PA 740 HN	38	24	1.1/2"	1.1/2"-11.5 NPT	139,5	50

Product versions:

PA 700 HN VA - Swage fitting, AGN, Stainless steel

PA 700 AJ**Swage fitting, DKJ**

Application:	Swage fitting for HD 700 hoses
Connection 1:	UN/UNF nut threads
Sealing form 1:	74° inner cone
Short code:	DKJ
Standard:	ISO 8434-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

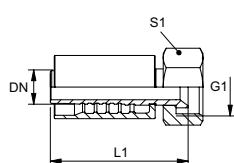


2

Identification	DN	Size	Inches	G1	L1 mm	S1
PA 713 AJ	12	8	1/2"	3/4"-16 UNF	67,4	24
PA 713 AJ 16	12	8	1/2"	7/8"-14 UNF	66,5	25
PA 716 AJ	16	10	5/8"	7/8"-14 UNF	79,5	25
PA 716 AJ 20	16	10	5/8"	1.1/16"-12 UN	81,0	30

Product versions:

PA 700 AJ VA - Swage fitting, DKJ, Stainless steel

PA 700 AJ H**Swage fitting, DKJ**

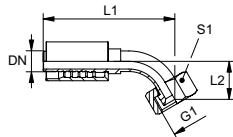
Application: Swage fitting for HD 700 hoses
Connection 1: UN/UNF nut threads
Sealing form 1: 74° inner cone
Short code: DKJ
Standard: ISO 8434-2
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Additional feature: for breaker operation
Material: Steel
Surface: electro galvanised
Description: Reinforced design for extreme loads, e.g. use in hammers.

2

Identification	DN	Size	Inches	G1	L1 mm	S1
PA 720 AJ H	19	12	3/4"	1.1/16"-12 UN	91,5	32
PA 725 AJ H	25	16	1"	1.5/16"-12 UN	98,2	41
PA 725 AJ 32 H	25	16	1"	1.5/8"-12 UN	111,0	50

PA 700 AJ 45**Swage fitting, DKJ angle 45°**

Application:	Swage fitting for HD 700 hoses
Connection 1:	UN/UNF nut threads
Sealing form 1:	74° inner cone
Short code:	DKJ
Standard:	ISO 8434-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

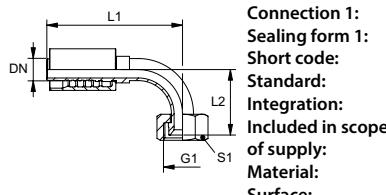


2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PA 713 AJ 45	12	8	1/2"	3/4"-16 UNF	92,8	21,5	24
PA 713 AJ 16 45	12	8	5/8"	7/8"-14 UNF	92,8	20,0	25
PA 716 AJ 45	16	10	5/8"	7/8"-14 UNF	116,5	25,0	25
PA 716 AJ 20 45	16	10	5/8"	1.1/16"-12 UN	114,0	23,5	32

Product versions:

PA 700 AJ 45 VA - Swage fitting, DKJ angle 45°, Stainless steel

PA 700 AJ 90**Swage fitting, DKJ angle 90°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 700 hoses
UN/UNF nut threads
74° inner cone
DKJ
ISO 8434-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

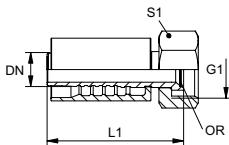
Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PA 713 AJ 90	12	8	1/2"	3/4"-16 UNF	87,0	43,5	24
PA 713 AJ 16 90	12	8	1/2"	7/8"-14 UNF	87,0	40,0	25
PA 716 AJ 90	16	10	5/8"	7/8"-14 UNF	109,0	51,0	25
PA 716 AJ 20 90	16	10	5/8"	1.1/16"-12 UN	107,5	50,0	32

Product versions:

PA 700 AJ 90 VA - Swage fitting, DKJ angle 90°, Stainless steel

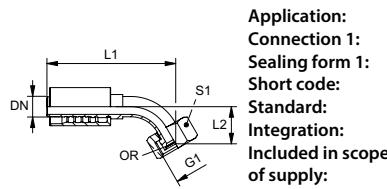
PA 700 AOJ**Swage fitting, DKOJ**

Application:	Swage fitting for HD 700 hoses
Connection 1:	UN/UNF nut threads
Sealing form 1:	74° inner cone with O-ring
Short code:	DKOJ
Standard:	ISO 8434-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	S1	OR
PA 720 AOJ	19	12	3/4"	1.1/16"-12 UN	90,0	32	19.00 x 1.50
PA 725 AOJ	25	16	1"	1.5/16"-12 UN	103,5	41	25.00 x 1.50
PA 732 AOJ	31	20	1.1/4"	1.5/8"-12 UN	115,0	50	31.47 x 1.78
PA 740 AOJ	38	24	1.1/2"	1.7/8"-12 UN	132,0	55	37.82 x 1.78

PA 700 AOJ 45**Swage fitting, DKOJ angle 45°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

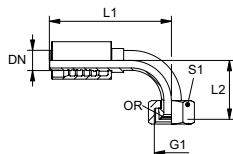
Swage fitting for HD 700 hoses
UN/UNF nut threads
74° inner cone with O-ring
DKOJ
ISO 8434-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PA 720 AOJ 45	19	12	3/4"	1.1/16"-12 UN	140,0	34,5	32	19.00 x 1.50
PA 725 AOJ 45	25	16	1"	1.5/16"-12 UN	169,5	39,0	41	25.00 x 1.50
PA 732 AOJ 45	31	20	1.1/4"	1.5/8"-12 UN	199,0	49,5	50	31.47 x 1.78
PA 740 AOJ 45	38	24	1.1/2"	1.7/8"-12 UN	233,0	58,0	55	37.82 x 1.78

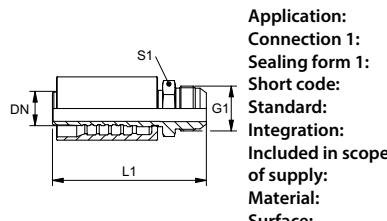
PA 700 AOJ 90**Swage fitting, DKOJ angle 90°**

Application:	Swage fitting for HD 700 hoses
Connection 1:	UN/UNF nut threads
Sealing form 1:	74° inner cone with O-ring
Short code:	DKOJ
Standard:	ISO 8434-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1	OR
PA 720 AOJ 90	19	12	3/4"	1.1/16"-12 UN	127,5	68,2	32	19,00 x 1,50
PA 725 AOJ 90	25	16	1"	1.5/16"-12 UN	158,0	81,7	41	25,00 x 1,50
PA 732 AOJ 90	31	20	1.1/4"	1.5/8"-12 UN	182,0	104,0	50	31,47 x 1,78
PA 740 AOJ 90	38	24	1.1/2"	1.7/8"-12 UN	215,5	120,5	55	37,82 x 1,78

PA 700 HJ**Swage fitting, AGJ**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 700 hoses
UN/UNF external threads
74° outer cone
AGJ
ISO 8434-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

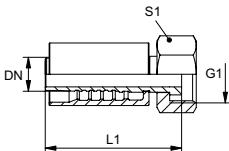
Identification	DN	Size	Inches	G1	L1 mm	S1
PA 713 HJ	12	8	1/2"	3/4"-16 UNF	77,2	22
PA 713 HJ 16	12	8	1/2"	7/8"-14 UNF	80,4	24
PA 716 HJ	16	10	5/8"	7/8"-14 UNF	92,0	24
PA 720 HJ	19	12	3/4"	1.1/16"-12 UN	102,5	27
PA 725 HJ	25	16	1"	1.5/16"-12 UN	117,0	36
PA 732 HJ	31	20	1.1/4"	1.5/8"-12 UN	127,0	46
PA 740 HJ	38	24	1.1/2"	1.7/8"-12 UN	145,5	50

Product versions:

PA 700 HJ VA - Swage fitting, AGJ, Stainless steel

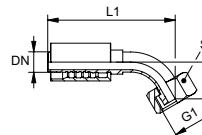
PA 700 AJF**Swage fitting, ORFS**

Application: Swage fitting for HD 700 hoses
Connection 1: UN/UNF nut threads
Sealing form 1: flat sealing
Short code: ORFS
Standard: ISO 8434-3
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	S1
PA 713 AJF	12	8	1/2"	13/16"-16 UN	65,8	27
PA 716 AJF	16	10	5/8"	1"-14 UNS	82,0	30
PA 716 AJF 20	16	10	5/8"	1.3/16"-12 UN	82,0	36
PA 720 AJF	19	12	3/4"	1.3/16"-12 UN	94,5	36
PA 725 AJF	25	16	1"	1.7/16"-12 UN	108,5	41
PA 732 AJF	31	20	1.1/4"	1.11/16"-12 UN	115,5	50
PA 740 AJF	38	24	1.1/2"	2"-12 UN	127,5	60

PA 700 AJF 45**Swage fitting, ORFS angle 45°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

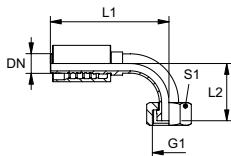
Swage fitting for HD 700 hoses
UN/UNF nut threads
flat sealing
ORFS
ISO 8434-3
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PA 713 AJF 45	12	8	1/2"	11/16"-16 UN	91,5	21,5	27
PA 716 AJF 45	16	10	5/8"	1"-14 UNS	111,0	20,0	30
PA 720 AJF 45	19	12	3/4"	1.3/16"-12 UN	133,0	26,5	36
PA 725 AJF 45	25	16	1"	1.7/16"-12 UN	160,5	31,0	41
PA 732 AJF 45	31	20	1.1/4"	1.11/16"-12 UN	178,0	34,0	50
PA 740 AJF 45	38	24	1.1/2"	2"-12 UN	209,0	32,0	60

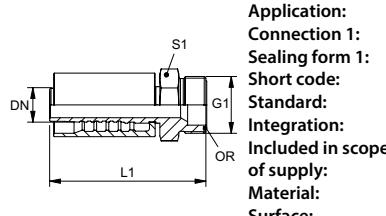
PA 700 AJF 90**Swage fitting, ORFS angle 90°**

Application:	Swage fitting for HD 700 hoses
Connection 1:	UN/UNF nut threads
Sealing form 1:	flat sealing
Short code:	ORFS
Standard:	ISO 8434-3
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
PA 713 AJF 90	12	8	1/2"	13/16"-16 UN	85,5	43,5	27
PA 716 AJF 90	16	10	5/8"	1"-14 UNS	106,5	47,5	30
PA 720 AJF 90	19	12	3/4"	1.3/16"-12 UN	126,0	56,0	36
PA 725 AJF 90	25	16	1"	1.7/16"-12 UN	157,5	68,0	41
PA 732 AJF 90	31	20	1.1/4"	1.11/16"-12 UN	171,5	76,0	50
PA 740 AJF 90	38	24	1.1/2"	2"-12 UN	207,0	88,5	60

PA 700 HJOF**Swage fitting, ORFS**

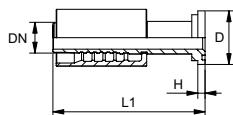
Swage fitting for HD 700 hoses
UN/UNF external threads
flat seal with O-ring
ORFS
ISO 8434-3
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	S1	OR
PA 713 HJOF	12	8	1/2"	13/16"-16 UN	73,8	22	12.42 x 1.78
PA 716 HJOF	16	10	5/8"	1"-14 UNS	89,4	27	15.60 x 1.78
PA 720 HJOF	19	12	3/4"	1.3/16"-12 UN	101,0	32	18.77 x 1.78
PA 725 HJOF	25	16	1"	1.7/16"-12 UN	117,5	36	23.52 x 1.78

PA 700 SF**Swage fitting, SFL**

Application: Swage fitting for HD 700 hoses
Connection 1: SAE flange connection 3000 PSI
Sealing form 1: flat seal with SF O-ring
Short code: SFL
Standard: SAE J518, ISO 6162-1
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised

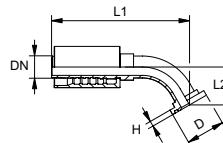


2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PA 713 SF	12	8	1/2"	1/2"	30,2	6,7	90,4
PA 713 SF 20	12	8	1/2"	3/4"	38,1	6,7	91,6
PA 716 SF 20	16	10	3/8"	3/4"	38,1	6,7	102,6
PA 720 SF	19	12	3/4"	3/4"	38,1	6,8	116,5
PA 720 SF 25	19	12	3/4"	1"	44,5	8,1	119,5
PA 725 SF 20	25	16	1"	3/4"	38,1	6,8	132,0
PA 725 SF	25	16	1"	1"	44,5	8,1	135,5
PA 725 SF 32	25	16	1"	1.1/4"	50,8	8,1	138,5
PA 732 SF 25 S	31	20	1.1/4"	1"	44,5	8,0	145,0
PA 732 SF 40 S	31	20	1.1/4"	1.1/2"	60,3	8,0	129,0
PA 732 SF S	31	20	1.1/4"	1.1/4"	50,8	8,0	144,5
PA 740 SF 32	38	24	1.1/2"	1.1/4"	50,8	8,1	158,0
PA 740 SF	38	24	1.1/2"	1.1/2"	60,3	8,1	166,5
PA 740 SF 50	38	24	1.1/2"	2"	71,4	9,6	169,5

Product versions:

PA 700 SF VA - Swage fitting, SFL, Stainless steel

PA 700 SF 45**Swage fitting, SFL angle 45°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 700 hoses
SAE flange connection 3000 PSI
flat seal with SF O-ring
SFL
SAE J518, ISO 6162-1
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

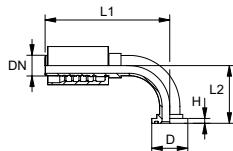
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 713 SF 45	12	8	1/2"	1/2"	30,2	6,7	94,5	22,5
PA 713 SF 20 45	12	8	1/2"	3/4"	38,1	6,7	126,0	26,5
PA 720 SF 45	19	12	3/4"	3/4"	38,1	6,8	132,5	27,5
PA 720 SF 25 45	19	12	3/4"	1"	44,5	8,1	134,5	29,5
PA 725 SF 20 45	25	16	1"	3/4"	38,1	6,8	153,0	30,0
PA 725 SF 45	25	16	1"	1"	44,5	8,1	159,0	28,5
PA 725 SF 32 45	25	16	1"	1.1/4"	50,8	8,1	161,0	30,5
PA 732 SF 25 45 S	31	20	1.1/4"	1"	44,5	8,0	170,5	35,0
PA 732 SF 45 S	31	20	1.1/4"	1.1/4"	50,8	8,0	181,5	41,5
PA 732 SF 40 45 S	31	20	1.1/4"	1.1/2"	60,3	8,0	188,0	43,5
PA 740 SF 32 45	38	24	1.1/2"	1.1/4"	50,8	8,1	199,5	42,0
PA 740 SF 45	38	24	1.1/2"	1.1/2"	60,3	8,1	212,5	41,5
PA 740 SF 50 45	38	24	1.1/2"	2"	71,4	9,6	233,5	58,5

Product versions:

PA 700 SF 45 VA - Swage fitting, SFL angle 45°, Stainless steel

PA 700 SF 90**Swage fitting, SFL angle 90°**

Application: Swage fitting for HD 700 hoses
Connection 1: SAE flange connection 3000 PSI
Sealing form 1: flat seal with SF O-ring
Short code: SFL
Standard: SAE J518, ISO 6162-1
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised

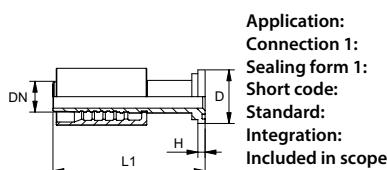


2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 713 SF 90	12	8	1/2"	1/2"	30,2	6,7	85,9	45,0
PA 713 SF 20 90	12	8	1/2"	3/4"	38,1	6,7	96,0	51,0
PA 720 SF 90	19	12	3/4"	3/4"	38,1	6,8	127,5	58,0
PA 720 SF 90 L 95	19	12	3/4"	3/4"	38,1	6,8	127,5	95,0
PA 720 SF 90 L 100	19	12	3/4"	3/4"	38,1	6,8	127,5	100,0
PA 720 SF 90 L 120	19	12	3/4"	3/4"	38,1	6,8	127,5	120,0
PA 720 SF 25 90	19	12	3/4"	1"	44,5	8,1	127,5	61,0
PA 720 SF 25 90 L 82	19	12	3/4"	1"	44,5	8,1	127,5	82,0
PA 725 SF 20 90	25	16	1"	3/4"	38,1	6,8	144,0	64,5
PA 725 SF 90	25	16	1"	1"	44,5	8,1	158,0	67,0
PA 725 SF 32 90	25	16	1"	1.1/4"	50,8	8,1	158,0	69,5
PA 732 SF 25 90 S	31	20	1.1/4"	1"	44,5	8,0	162,0	76,0
PA 732 SF 90 S	31	20	1.1/4"	1.1/4"	50,8	8,0	173,0	88,0
PA 732 SF 40 90 S	31	20	1.1/4"	1.1/2"	60,3	8,0	177,0	95,0
PA 740 SF 32 90	38	24	1.1/2"	1.1/4"	50,8	8,1	190,5	93,0
PA 740 SF 90	38	24	1.1/2"	1.1/2"	60,3	8,1	208,5	99,0
PA 740 SF 50 90	38	24	1.1/2"	2"	71,4	9,6	218,0	104,0

Product versions:

PA 700 SF 90 VA - Swage fitting, SFL angle 90°, Stainless steel

PA 700 SF6**Swage fitting, SFS**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

Swage fitting for HD 700 hoses
SAE flange connection 6000 PSI
flat seal with SF O-ring
SFS
SAE J518, ISO 6162-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

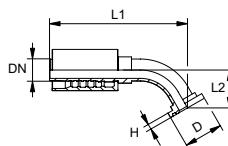
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PA 713 SF6	12	8	1/2"	1/2"	31,8	7,7	90,4
PA 713 SF6 20	12	8	1/2"	3/4"	41,3	8,8	93,9
PA 716 SF6 13	16	10	5/8"	1/2"	31,8	7,7	108,0
PA 716 SF6 20	16	10	5/8"	3/4"	41,3	8,8	102,0
PA 716 SF6 25	16	10	5/8"	1"	47,6	9,5	103,0
PA 720 SF6	19	12	3/4"	3/4"	41,3	8,8	124,5
PA 720 SF6 25	19	12	3/4"	1"	47,6	9,6	129,0
PA 725 SF6 20	25	16	1"	3/4"	41,3	8,8	134,0
PA 725 SF6	25	16	1"	1"	47,6	9,6	146,5
PA 725 SF6 32	25	16	1"	1.1/4"	54,0	10,4	151,0
PA 732 SF6 S	31	20	1.1/4"	1.1/4"	54,0	10,3	147,6
PA 732 SF6 25 S	31	20	1.1/4"	1"	47,6	9,5	149,0
PA 732 SF6 40 S	31	20	1.1/4"	1.1/2"	63,5	12,6	162,0
PA 740 SF6 32	38	24	1.1/2"	1.1/4"	54,0	10,4	162,0
PA 740 SF6	38	24	1.1/2"	1.1/2"	63,5	12,7	183,5
PA 740 SF6 50	38	24	1.1/2"	2"	79,4	12,7	188,0
PA 750 SF6	51	32	2"	2"	79,4	12,6	233,0

Product versions:

PA 700 SF6 VA - Swage fitting, SFS, Stainless steel

PA 700 SF6 45**Swage fitting, SFS angle 45°**

Application:	Swage fitting for HD 700 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

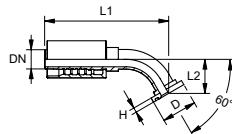


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Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 713 SF6 45	12	8	1/2"	1/2"	31,8	7,7	95,5	23,0
PA 713 SF6 20 45	12	8	1/2"	3/4"	41,3	8,8	99,9	23,0
PA 716 SF6 13 45	16	10	5/8"	1/2"	31,8	7,7	114,0	21,5
PA 716 SF6 20 45	16	10	5/8"	3/4"	41,3	8,8	117,5	25,0
PA 716 SF6 25 45	16	10	5/8"	1"	47,6	9,5	121,0	29,0
PA 720 SF6 45	19	12	3/4"	3/4"	41,3	8,8	135,5	30,0
PA 720 SF6 45 L 52	19	12	3/4"	3/4"	41,3	8,8	217,0	52,0
PA 720 SF6 45 L 75	19	12	3/4"	3/4"	41,3	8,8	252,0	75,0
PA 720 SF6 45 L 100	19	12	3/4"	3/4"	41,3	8,8	268,0	100,0
PA 720 SF6 25 45	19	12	3/4"	1"	47,6	9,6	139,5	34,5
PA 725 SF6 20 45	25	16	1"	3/4"	41,3	8,8	164,0	36,5
PA 725 SF6 45	25	16	1"	1"	47,6	9,6	164,0	33,5
PA 725 SF6 32 45	25	16	1"	1.1/4"	54,0	10,4	169,0	38,5
PA 732 SF6 25 45 S	31	20	1.1/4"	1"	47,6	9,5	173,5	38,0
PA 732 SF6 45 S	31	20	1.1/4"	1.1/4"	54,0	10,3	187,0	44,0
PA 732 SF6 40 45 S	31	20	1.1/4"	1.1/2"	63,5	12,6	191,5	47,5
PA 740 SF6 32 45	38	24	1.1/2"	1.1/4"	54,0	10,4	217,5	51,5
PA 740 SF6 45	38	24	1.1/2"	1.1/2"	63,5	12,6	222,0	49,0
PA 740 SF6 50 45	38	24	1.1/2"	2"	79,4	12,6	236,0	61,0
PA 750 SF6 45	51	32	2"	2"	79,4	12,6	274,0	56,0

Product versions:

PA 700 SF6 45 VA - Swage fitting, SFS angle 45°, Stainless steel

PA 700 SF6 60**Swage fitting, SFS angle 60°**

Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

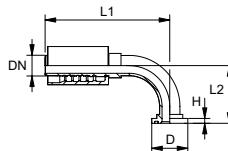
Swage fitting for HD 700 hoses
SAE flange connection 6000 PSI
flat seal with SF O-ring
SFS
SAE J518, ISO 6162-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	Flange size	D mm	H mm
PA 725 SF6 60	25	16	1"	1"	47,6	9,5

PA 700 SF6 90**Swage fitting, SFS angle 90°**

Application:	Swage fitting for HD 700 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

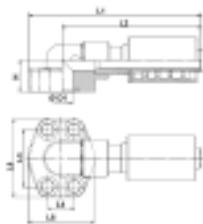
Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 713 SF6 90	12	8	1/2"	1/2"	31,8	7,7	86,0	46,0
PA 713 SF6 20 90	12	8	1/2"	3/4"	41,3	8,8	92,5	46,0
PA 716 SF6 13 90	16	10	5/8"	1/2"	31,8	7,7	108,0	48,0
PA 716 SF6 20 90	16	10	5/8"	3/4"	41,3	8,8	107,5	52,5
PA 716 SF6 25 90	16	10	5/8"	1"	47,6	9,5	108,0	57,0
PA 720 SF6 13 90 L 80	19	12	3/4"	1/2"	31,8	7,8	117,0	80,0
PA 720 SF6 13 90 L 100	19	12	3/4"	1/2"	31,8	7,8	117,0	100,0
PA 720 SF6 90	19	12	3/4"	3/4"	41,3	8,8	127,5	62,0
PA 720 SF6 90 L 52	19	12	3/4"	3/4"	41,3	8,8	127,5	52,0
PA 720 SF6 90 L 80	19	12	3/4"	3/4"	41,3	8,8	127,5	80,0
PA 720 SF6 90 L 85	19	12	3/4"	3/4"	41,3	8,8	127,5	85,0
PA 720 SF6 90 L 100	19	12	3/4"	3/4"	41,3	8,8	127,5	100,0
PA 720 SF6 90 L 150	19	12	3/4"	3/4"	41,3	8,8	127,5	150,0
PA 720 SF6 25 90	19	12	3/4"	1"	47,6	9,6	127,5	68,0
PA 725 SF6 20 90	25	16	1"	3/4"	41,3	8,8	152,5	70,5
PA 725 SF6 90	25	16	1"	1"	47,6	9,6	158,0	74,0
PA 725 SF6 90 L 100	25	16	1"	1"	47,6	9,6	158,0	100,0
PA 725 SF6 90 L 200	25	16	1"	1"	47,6	9,6	158,0	200,0
PA 725 SF6 32 90	25	16	1"	1 1/4"	54,0	10,4	156,0	83,5
PA 732 SF6 25 90 S	31	20	1 1/4"	1"	47,6	9,5	162,0	80,0
PA 732 SF6 90 S	31	20	1 1/4"	1 1/4"	54,0	10,3	173,5	94,5
PA 732 SF6 90 L 120 S	31	20	1 1/4"	1 1/4"	54,0	10,3	173,5	120,0
PA 732 SF6 40 90 S	31	20	1 1/4"	1 1/2"	63,5	12,6	174,5	100,0
PA 740 SF6 32 90	38	24	1 1/2"	1 1/4"	54,0	10,3	193,0	100,0
PA 740 SF6 90	38	24	1 1/2"	1 1/2"	63,5	12,6	213,5	110,0
PA 740 SF6 50 90	38	24	1 1/2"	2"	79,4	12,6	215,5	126,0
PA 750 SF6 90	51	32	2"	2"	79,4	12,6	268,0	138,0

Product versions:

PA 700 SF6 90 VA - Swage fitting, SFS angle 90°, Stainless steel

PA 700 SF6 90 4 K

Swage fitting, SFS angle 90°



Application:
Connection 1:
Sealing form 1:
Short code:
Standard:
Integration:
Included in scope of supply:
Material:
Surface:

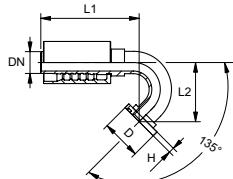
Swage fitting for HD 700 hoses
SAE flange connection 6000 PSI
flat seal with SF O-ring
SFS
SAE J518, ISO 6162-2
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

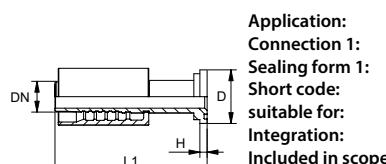
Identification	DN	Size	Inches	Flange size	Ø d mm	H mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	L6 mm
PA 720 SF6 90 4 K	19	12	3/4"	-	19,0	28,0	155,5	125,5	50,8	23,8	70,0	60,0
PA 725 SF6 90 4 K	25	16	1"	-	25,0	34,0	185,5	150,5	57,2	27,8	79,0	70,0

PA 700 SF6 135**Swage fitting, SFS angle 135°**

Application:	Swage fitting for HD 700 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 725 SF6 135	25	16	1"	1"	47,6	9,5	170,0	100,0

PA 700 SF9**Swage fitting, SFS-CAT****Application:****Connection 1:****Sealing form 1:****Short code:****suitable for:****Integration:****Included in scope****of supply:****Material:****Surface:**

Swage fitting for HD 700 hoses

SAE flange connection 6000 PSI

flat seal with SF O-ring

SFS-CAT

Caterpillar

with pull-out protection (interlock)

Swage nipple + swage ferrule

Steel

electro galvanised

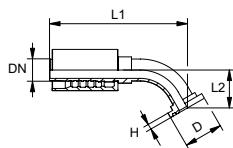
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Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PA 720 SF9	19	12	3/4"	3/4"	41,3	14,6	130,0
PA 720 SF9 25	19	12	3/4"	1"	47,6	14,6	133,5
PA 725 SF9 20	25	16	1"	3/4"	41,3	14,6	137,0
PA 725 SF9	25	16	1"	1"	47,6	14,6	150,0
PA 725 SF9 32	25	16	1"	1.1/4"	54,0	14,6	155,0
PA 732 SF9 25 S	31	20	1.1/4"	1"	47,6	14,6	150,0
PA 732 SF9 S	31	20	1.1/4"	1.1/4"	54,0	14,6	151,3
PA 732 SF9 40 S	31	20	1.1/4"	1.1/2"	63,5	14,6	140,0
PA 740 SF9 32	38	24	1.1/2"	1.1/4"	54,0	14,6	163,0
PA 740 SF9	38	24	1.1/2"	1.1/2"	63,5	14,6	185,0

PA 700 SF9 45

Swage fitting, SFS-CAT angle 45°

Application:	Swage fitting for HD 700 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS-CAT
suitable for:	Caterpillar
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

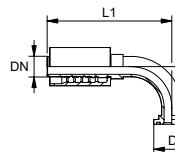


2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 720 SF9 45	19	12	3/4"	3/4"	41,3	14,2	139,0	34,0
PA 720 SF9 25 45	19	12	3/4"	1"	47,6	14,2	143,0	37,5
PA 725 SF9 20 45	25	16	1"	3/4"	41,3	14,2	157,0	35,0
PA 725 SF9 45	25	16	1"	1"	47,6	14,2	167,0	36,5
PA 725 SF9 32 45	25	16	1"	1.1/4"	54,0	14,2	172,0	41,5
PA 732 SF9 25 45 S	31	20	1.1/4"	1"	47,6	14,0	174,0	39,5
PA 732 SF9 45 S	31	20	1.1/4"	1.1/4"	54,0	14,0	187,0	44,0
PA 732 SF9 40 45 S	31	20	1.1/4"	1.1/2"	63,5	14,0	195,5	52,0
PA 740 SF9 32 45	38	24	1.1/2"	1.1/4"	54,0	14,0	205,5	47,0
PA 740 SF9 45	38	24	1.1/2"	1.1/2"	63,5	14,2	224,0	51,0

PA 700 SF9 90

Swage fitting, SFS-CAT angle 90°



Application:
Connection 1:
Sealing form 1:
Short code:
suitable for:
Integration:
Included in scope of supply:
Material:
Surface:

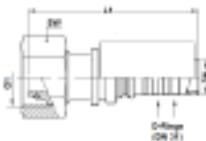
Swage fitting for HD 700 hoses
SAE flange connection 6000 PSI
flat seal with SF O-ring
SFS-CAT
Caterpillar
with pull-out protection (interlock)
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 720 SF9 90	19	12	3/4"	3/4"	41,3	14,2	127,5	67,5
PA 720 SF9 25 90	19	12	3/4"	1"	47,6	14,2	127,5	72,5
PA 725 SF9 20 90	25	16	1"	3/4"	41,3	14,2	144,0	83,5
PA 725 SF9 90	25	16	1"	1"	47,6	14,2	158,0	78,5
PA 725 SF9 32 90	25	16	1"	1.1/4"	54,0	14,2	158,0	85,0
PA 732 SF9 25 90 S	31	20	1.1/4"	1"	47,6	14,0	161,0	82,0
PA 732 SF9 90 S	31	20	1.1/4"	1.1/4"	54,0	14,0	169,5	96,0
PA 732 SF9 40 90 S	31	20	1.1/4"	1.1/2"	63,5	14,0	177,0	107,0
PA 740 SF9 32 90	38	24	1.1/2"	1.1/4"	54,0	14,0	192,0	100,0
PA 740 SF9 90	38	24	1.1/2"	1.1/2"	63,5	14,1	214,0	111,5

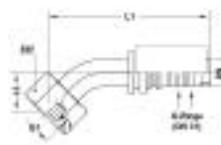
PA 800 AOS**Swage fitting, DKOS**

Application:	Swage fitting for HD 800 hoses
Connection 1:	metric nut thread
Sealing form 1:	24° outer cone with O-ring
Standard:	ISO 8434-1
Short code:	DKOS
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN*	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	OR
PA 816 AOS	16	10	5/8"	M 30 x 2	20	80,5	36	17,5 x 2,5
PA 820 AOS	19	12	3/4"	M 36 x 2	25	103,2	46	20,0 x 2,5
PA 825 AOS	25	16	1"	M 42 x 2	30	120,6	50	25,0 x 2,5
PA 832 AOS	31	20	1.1/4"	M 52 x 2	38	134,9	60	33,0 x 2,5

PA 800 AOS 45**Swage fitting, DKOS angle 45°****Application:****Connection 1:****Sealing form 1:****Standard:****Short code:****Integration:****Included in scope of supply:****Material:****Surface:**

Swage fitting for HD 800 hoses

metric nut thread

24° outer cone with O-ring

ISO 8434-1

DKOS

with pull-out protection (interlock)

Swage nipple + swage ferrule

Steel

electro galvanised

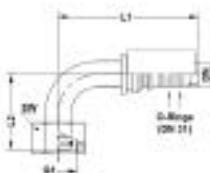
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Identification	DN*	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
PA 816 AOS 45	16	10	3/8"	M 30 x 2	20	112,8	31,0	36	17,5 x 2,5
PA 820 AOS 45	19	12	3/4"	M 36 x 2	25	135,1	32,0	46	20,0 x 2,5
PA 825 AOS 45	35	16	1"	M 42 x 2	30	163,6	35,0	50	25,0 x 2,5
PA 832 AOS 45	31	20	1,1/4"	M 52 x 2	38	190,0	39,0	60	33,0 x 2,5

PA 800 AOS 90

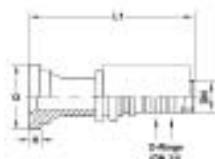
Swage fitting, DKOS angle 90°

Application:	Swage fitting for HD 800 hoses
Connection 1:	metric nut thread
Sealing form 1:	24° outer cone with O-ring
Standard:	ISO 8434-1
Short code:	DKOS
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN*	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
PA 816 AOS 90	16	10	5/8"	M 30 x 2	20	99,2	61,5	36	17,5 x 2,5
PA 820 AOS 90	19	12	3/4"	M 36 x 2	25	124,8	65,0	46	20,0 x 2,5
PA 825 AOS 90	25	16	1"	M 42 x 2	30	155,6	76,0	50	25,0 x 2,5
PA 832 AOS 90	31	20	1.1/4"	M 52 x 2	38	185,0	89,0	60	33,0 x 2,5

PA 800 SF6**Swage fitting, SFS**

Application: Swage fitting for HD 800 hoses
Connection 1: SAE flange connection 6000 PSI
Sealing form 1: flat seal with SF O-ring
Short code: SFS
Standard: SAE J518, ISO 6162-2
Integration: with pull-out protection (interlock)
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised

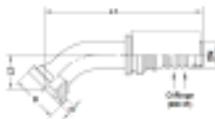
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Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PA 820 SF6	19	12	3/4"	3/4"	41,3	8,8	110,6
PA 825 SF6	25	16	1"	1"	47,6	9,6	134,0
PA 825 SF6 32	25	16	1"	1.1/4"	54,0	10,4	134,9
PA 832 SF6	31	20	1.1/4"	1.1/4"	54,0	10,5	145,2

PA 800 SF6 45

Swage fitting, SFS angle 45°

Application:	Swage fitting for HD 800 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

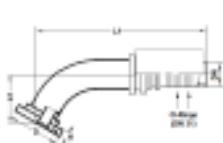


2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 820 SF6 45	19	12	3/4"	3/4"	41,3	8,8	130,1	27,0
PA 825 SF6 45	25	16	1"	1"	47,6	9,6	160,6	31,0
PA 825 SF6 32 45	25	16	1"	1.1/4"	54,0	10,4	179,6	39,0
PA 832 SF6 45	31	20	1.1/4"	1.1/4"	54,0	10,4	190,0	39,0

PA 800 SF6 60

Swage fitting, SFS angle 60°

**Application:****Connection 1:****Sealing form 1:****Short code:****Standard:****Integration:****Included in scope of supply:****Material:****Surface:**

Swage fitting for HD 800 hoses

SAE flange connection 6000 PSI

flat seal with SF O-ring

SFS

SAE J518, ISO 6162-2

with pull-out protection (interlock)

Swage nipple + swage ferrule

Steel

electro galvanised

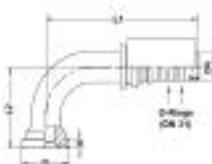
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Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 832 SF6 60	31	20	1.1/4"	1.1/4"	54,0	10,4	224,1	60,0

PA 800 SF6 90

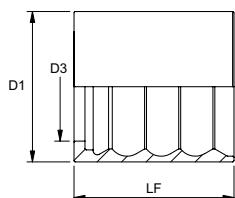
Swage fitting, SFS angle 90°

Application:	Swage fitting for HD 800 hoses
Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Integration:	with pull-out protection (interlock)
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PA 820 SF6 90	19	12	3/4"	3/4"	41,3	8,8	124,8	59,0
PA 825 SF6 90	25	16	1"	1"	47,6	9,6	155,6	71,0
PA 825 SF6 32 90	25	16	1"	1.1/4"	54,0	10,4	174,7	89,0
PA 832 SF6 90	31	20	1.1/4"	1.1/4"	54,0	10,4	185,0	89,0

PSGB 100**Swage ferrule, SGB 100**

Ferrule type:
Material:
Surface:

Non-skive ferrule
Steel
electro galvanised

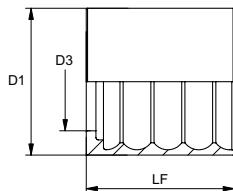
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Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PSGB 120	19	12	3/4"	39,5	25,0	35,0
PSGB 125	25	16	1"	46,0	32,7	44,0
PSGB 132	31	20	1.1/4"	55,0	39,8	58,5
PSGB 140	38	24	1.1/2"	65,0	45,8	63,0
PSGB 150	51	32	2"	75,0	59,8	78,0
PSGB 160	60	40	2.3/8"	85,0	67,1	79,0

DN = Nominal diameter, nominal width

PSG 100 RI**Swage ferrule, R 4**

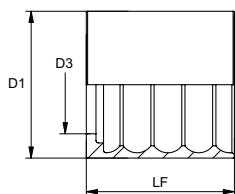
Ferrule type: Non-skive ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PSG 150 RI	51	32	2"	73,0	57,2	70,0
PSG 160 RI	60	38	2 1/2"	85,0	69,5	80,0
PSG 176 RI	76	48	3"	105,0	84,0	80,0
PSG 190 RI	90	56	3 1/2"			

DN = Nominal diameter, nominal width

PSGD 100**Swage ferrule, SGD 100**

Ferrule type:
Material:
Surface:

Non-skive ferrule
Steel
electro galvanised

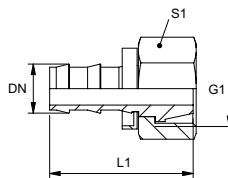
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Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PSGD 125	25	16	1"	46,0	31,5	50,0
PSGD 150	51	32	2"	80,0	58,0	80,0
PSGD 176	76	48	3"	108,0	85,5	80,0

DN = Nominal diameter, nominal width

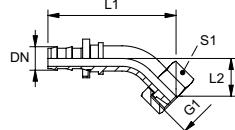
ND AFL**Plug-in nipple, DKL**

Connection 1: metric nut thread
Sealing form 1: 24°/60° Universal sealing head
Short code: DKL
Material: Steel
Surface: electro galvanised



Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1
ND 06 AFL 04	6	4	1/4"	M 12 x 1.5	6	33,0	14
ND 06 AFL	6	4	1/4"	M 14 x 1.5	8	33,0	17
ND 06 AFL 08	6	4	1/4"	M 16 x 1.5	10	34,0	19
ND 10 AFL 08	10	6	3/8"	M 16 x 1.5	10	38,0	19
ND 10 AFL	10	6	3/8"	M 18 x 1.5	12	38,0	22
ND 13 AFL 10	12	8	1/2"	M 18 x 1.5	12		
ND 13 AFL	12	8	1/2"	M 22 x 1.5	15	43,5	27
ND 16 AFL 13	16	10	5/8"	M 22 x 1.5	15	56,0	27
ND 16 AFL	16	10	5/8"	M 26 x 1.5	18	53,0	32
ND 20 AFL	19	12	3/4"	M 30 x 2	22	53,5	36
ND 25 AFL	25	16	1"	M 36 x 2	28	58,0	41

ND AFL 45**Plug-in nipple, DKL angle 45°**

Connection 1:
Sealing form 1:
Short code:
Material:
Surface:

metric nut thread
 24°/60° Universal sealing head
 DKL
 Steel
 electro galvanised

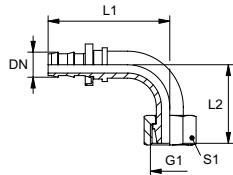
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Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1
ND 06 AFL 04 45	6	4	1/4"	M 12 x 1.5	6	51,0	16,0	14
ND 06 AFL 45	6	4	1/4"	M 14 x 1.5	8	51,0	16,0	17
ND 10 AFL 08 45	10	6	3/8"	M 16 x 1.5	10	58,0	18,0	19
ND 10 AFL 45	10	6	3/8"	M 18 x 1.5	12	59,0	18,0	22
ND 13 AFL 45	12	8	1/2"	M 22 x 1.5	15	68,0	19,0	27
ND 16 AFL 45	16	10	5/8"	M 26 x 1.5	18	81,0	21,0	32
ND 20 AFL 45	19	12	3/4"	M 30 x 2	22	88,0	23,0	36
ND 25 AFL 45	25	16	1"	M 36 x 2	28	105,0	30,0	41

ND AFL 90**Plug-in nipple, DKL angle 90°**

Connection 1: metric nut thread
Sealing form 1: 24°/60° Universal sealing head
Short code: DKL
Material: Steel
Surface: electro galvanised

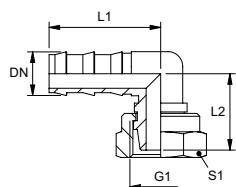
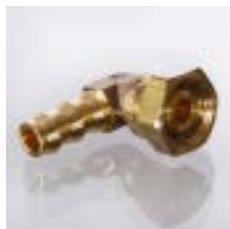


Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1
ND 06 AFL 04 90	6	4	1/4"	M 12 x 1.5	6	42,0	29,0	14
ND 06 AFL 90	6	4	1/4"	M 14 x 1.5	8	42,0	29,0	17
ND 06 AFL 08 90	6	4	1/4"	M 16 x 1.5	10	42,0	29,0	19
ND 10 AFL 08 90	10	6	3/8"	M 16 x 1.5	10	49,0	33,0	19
ND 10 AFL 90	10	6	3/8"	M 18 x 1.5	12	49,0	34,0	22
ND 13 AFL 90	12	8	1/2"	M 22 x 1.5	15	60,0	39,0	27
ND 16 AFL 90	16	10	5/8"	M 26 x 1.5	18	74,0	43,0	32
ND 20 AFL 90	19	12	3/4"	M 30 x 2	22	88,0	50,0	36
ND 25 AFL 90	25	16	1"	M 36 x 2	28	99,0	70,0	41

ND AFL K 90

Plug-in nipple, DKL comp. angle 90°



Connection 1:
Sealing form 1:
Design:
Short code:
Material:

metric nut thread
24° outer cone
Compact form
DKL
Brass

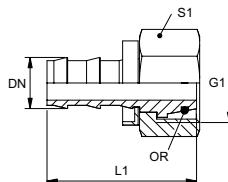
2

Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1
ND 06 AFL K 04 90	6	4	1/4"	M 12 x 1.5	6	30,0	22,0	14
ND 06 AFL K 90	6	4	1/4"	M 14 x 1.5	8	30,0	22,0	19
ND 10 AFL K 08 90	10	6	3/8"	M 16 x 1.5	10	34,0	25,0	19
ND 10 AFL K 90	10	6	3/8"	M 18 x 1.5	12	34,0	25,0	22
ND 13 AFL K 90	12	8	1/2"	M 22 x 1.5	15	43,0	32,0	27

ND AOL**Plug-in nipple, DKOL**

Connection 1: metric nut thread
Sealing form 1: 24° outer cone with O-ring
Short code: DKOL
Standard: ISO 8434-1
Material: Steel
Surface: electro galvanised

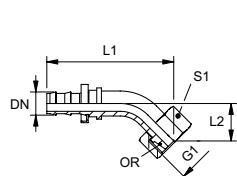


Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	OR
ND 06 AOL 04	6	4	1/4"	M 12 x 1.5	6	40,0	14	4.5 x 1.5
ND 06 AOL	6	4	1/4"	M 14 x 1.5	8	36,0	17	6.5 x 1.5
ND 06 AOL 08	6	4	1/4"	M 16 x 1.5	10	36,0	19	8.5 x 1.5
ND 10 AOL 08	10	6	3/8"	M 16 x 1.5	10	40,0	19	8.5 x 1.5
ND 10 AOL	10	6	3/8"	M 18 x 1.5	12	40,0	22	10.5 x 1.5
ND 13 AOL	12	8	1/2"	M 22 x 1.5	15	44,0	27	12.5 x 1.5
ND 16 AOL	16	10	5/8"	M 26 x 1.5	18	56,0	32	16.0 x 2.0
ND 20 AOL	19	12	3/4"	M 30 x 2	22	58,0	36	20.0 x 2.0

ND AOL 45

Plug-in nipple, DKOL angle 45°

**Connection 1:**

metric nut thread

Sealing form 1: 24° outer cone with O-ring**Short code:** DKOL

ISO 8434-1

Standard: Steel**Material:** electro galvanised

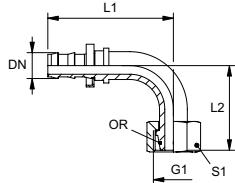
2

Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
ND 10 AOL 08 45	10	6	3/8"	M 16 x 1.5	10	59,0	19,0	19	8.5 x 1.5
ND 10 AOL 45	10	6	3/8"	M 18 x 1.5	12	60,0	19,0	22	10.5 x 1.5
ND 13 AOL 45	12	8	1/2"	M 22 x 1.5	15	69,0	21,0	27	12.5 x 1.5

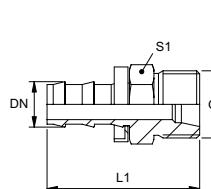
ND AOL 90**Plug-in nipple, DKOL angle 90°**

Connection 1: metric nut thread
Sealing form 1: 24° outer cone with O-ring
Short code: DKOL
Standard: ISO 8434-1
Material: Steel
Surface: electro galvanised



Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
ND 06 AOL 04 90	6	4	1/4"	M 12 x 1.5	6	42,0	36,0	14	4.5 x 1.5
ND 10 AOL 08 90	10	6	3/8"	M 16 x 1.5	10	49,0	35,0	19	8.5 x 1.5
ND 10 AOL 90	10	6	3/8"	M 18 x 1.5	12	49,0	36,0	22	10.5 x 1.5
ND 13 AOL 90	12	8	1/2"	M 22 x 1.5	15	58,0	41,0	27	12.5 x 1.5
ND 16 AOL 90	16	10	5/8"	M 26 x 1.5	18	74,0	45,0	32	16.0 x 2.0

ND HL**Plug-in nipple, CEL****Connection 1:**

metric cylindrical outer thread

24° inner cone

CEL

ISO 8434-1

Steel

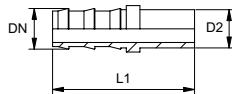
electro galvanised

2**Note:** Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1
ND 06 HL 04	6	4	1/4"	M 12 x 1.5	6	35,0	12
ND 06 HL	6	4	1/4"	M 14 x 1.5	8	36,0	14
ND 10 HL 08	10	6	3/8"	M 16 x 1.5	10	41,5	17
ND 10 HL	10	6	3/8"	M 18 x 1.5	12	41,0	19
ND 13 HL	12	8	1/2"	M 22 x 1.5	15	49,0	22
ND 16 HL	16	10	3/8"	M 26 x 1.5	18	58,0	27
ND 20 HL	19	12	3/4"	M 30 x 2	22	63,0	30

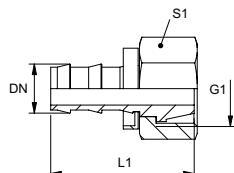
ND FL / ND FS**Plug-in nipple, BEL / BES**

Connection 1:	Pipe sockets
Sealing form 1:	Cutting ring connection
Short code:	BEL / BES
Standard:	ISO 8434-1
Material:	Steel
Surface:	electro galvanised



Note: Undamaged nipples can be reused. Final cutting ring assembly must be carried out in the hardened pre-assembly socket (VOM...). Do not use for new designs; for ND...FL we recommend: ND...AOL.

Identification	DN	Size	Inches	Series	D2 mm	L1 mm
ND 06 FL 04	6	4	1/4"	L	6,0	44,0
ND 06 FL	6	4	1/4"	L	8,0	44,0
ND 10 FL 08	10	6	3/8"	L	10,0	49,0
ND 10 FL	10	6	3/8"	L	12,0	49,0
ND 13 FL 10	12	8	1/2"	L	12,0	54,0
ND 13 FL	12	8	1/2"	L	15,0	55,0
ND 16 FL	16	10	5/8"	L	18,0	67,0
ND 20 FL	19	12	3/4"	L	22,0	69,0
ND 06 FS	6	4	1/4"	S	10,0	

ND AB**Plug-in nipple, DKR****Connection 1:**

BSP external thread, cylindrical

60° outer cone

DKR

ISO 8434-6, BS 5200

Steel

electro galvanised

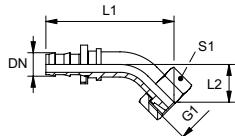
2**Note:** Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	L1 mm	S1
ND 06 AB	6	4	1/4"	G 1/4" -19	33,0	17
ND 10 AB	10	6	3/8"	G 3/8" -19	37,0	19
ND 13 AB	12	8	1/2"	G 1/2" -14	42,0	27
ND 16 AB	16	10	5/8"	G 5/8" -14	53,0	30
ND 20 AB	19	12	3/4"	G 3/4" -14	58,0	32
ND 25 AB	25	16	1"	G 1" -11	57,0	41

ND AB 45

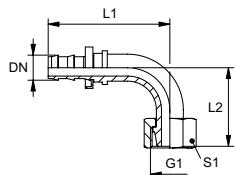
Plug-in nipple, DKR angle 45°

Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Short code:	DKR
Standard:	ISO 8434-6, BS 5200
Material:	Steel
Surface:	electro galvanised



Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
ND 06 AB 45	6	4	1/4"	G 1/4" -19	51,0	16,0	17
ND 10 AB 45	10	6	3/8"	G 3/8" -19	58,0	18,0	19
ND 13 AB 45	12	8	1/2"	G 1/2" -14	68,0	19,0	27
ND 16 AB 45	16	10	5/8"	G 5/8" -14	81,0	21,0	30

ND AB 90**Plug-in nipple, DKR angle 90°****Connection 1:**

BSP nut thread

60° outer cone

DKR

ISO 8434-6, BS 5200

Steel

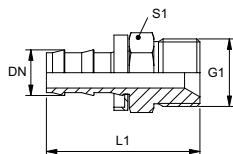
electro galvanised

2**Note:** Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
ND 06 AB 90	6	4	1/4"	G 1/4" -19	42,0	29,0	17
ND 10 AB 90	10	6	3/8"	G 3/8" -19	49,0	33,0	19
ND 13 AB 90	12	8	1/2"	G 1/2" -14	60,0	39,0	27
ND 16 AB 90	16	10	5/8"	G 5/8" -14	74,0	43,0	30
ND 20 AB 90	19	12	3/4"	G 3/4" -14	88,0	53,0	32

ND HB**Plug-in nipple, AGR**

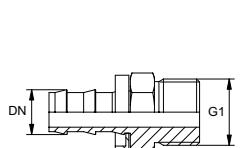
Connection 1: BSP external thread, cylindrical
Sealing form 1: 60° inner cone
Short code: AGR
Standard: ISO 8434-6, BS 5200
Material: Steel
Surface: electro galvanised



Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	L1 mm	S1
ND 06 HB 02	6	4	1/4"	G 1/8" -28	36,0	17
ND 06 HB	6	4	1/4"	G 1/4" -19	41,0	19
ND 10 HB 06	10	6	3/8"	G 1/4" -19	44,0	19
ND 10 HB	10	6	3/8"	G 3/8" -19	45,0	22
ND 13 HB	12	8	1/2"	G 1/2" -14	53,0	27
ND 16 HB 13	16	10	5/8"	G 1/2" -14		
ND 16 HB	16	10	5/8"	G 5/8" -14	65,0	30
ND 20 HB	19	12	3/4"	G 3/4" -14	65,0	32

2

ND HR**Plug-in nipple, AGR flat****Connection 1:**

BSP external thread, cylindrical

Sealing form 1:

flat sealing

Short code:

AGR-Flat

Standard:

ISO 8434-6, BS 5200

Material:

Steel

Surface:

electro galvanised

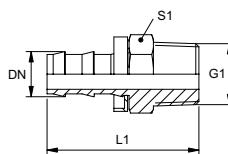
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Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1
ND 06 HR	6	4	1/4"	G 1/4" -19
ND 16 HR	16	10	5/8"	G 5/8" -14

ND HBK**Plug-in nipple, AGR-K**

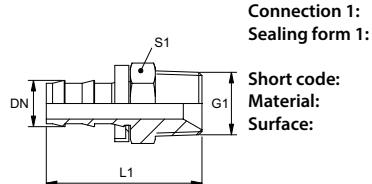
Connection 1: BSPT conical external threads
Sealing form 1: thread seal
Short code: AGR-K
Standard: BS 5200
Material: Steel
Surface: electro galvanised



Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	L1 mm	S1
ND 06 HBK 02	6	4	1/4"	R 1/8" K	37,0	12
ND 06 HBK	6	4	1/4"	R 1/4" K	40,0	14
ND 10 HBK 06	10	6	3/8"	R 1/4" K	44,0	14
ND 10 HBK	10	6	3/8"	R 3/8" K	45,0	19
ND 12 HBK	12	8	1/2"	R 1/2" K	55,0	22
ND 20 HBK	19	12	3/4"	R 3/4" K	68,0	27

2

ND HN**Plug-in nipple, AGN**

**Connection 1:
Sealing form 1:**

Short code:

Material:

Surface:

NPT external threads
thread seal, additional 60° inner
cone.
AGN
Steel
electro galvanised

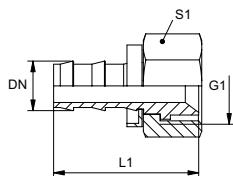
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Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	L1 mm	S1
ND 06 HN 02	6	4	1/4"	1/8"-27 NPT	35,0	12
ND 06 HN	6	4	1/4"	1/4"-18 NPT	40,0	14
ND 10 HN 06	10	6	3/8"	1/4"-18 NPT	45,0	14
ND 10 HN	10	6	3/8"	3/8"-18 NPT	45,0	22
ND 10 HN 13	10	6	3/8"	1/2"-14 NPT	52,0	22
ND 13 HN 10	12	8	1/2"	3/8"-18 NPT	49,0	22
ND 13 HN	12	8	1/2"	1/2"-14 NPT	55,0	22
ND 16 HN 13	16	10	5/8"	1/2"-14 NPT	66,0	22
ND 20 HN	19	12	3/4"	3/4"-14 NPT	66,0	32

ND ASA**Plug-in nipple, DKJ**

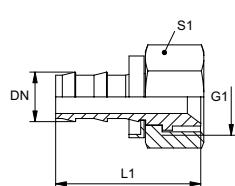
Connection 1: UN/UNF nut threads
Sealing form 1: 90° inner cone
Standard: SAE J516/J513
Material: Brass



Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	L1 mm	S1
ND 10 ASA	10	6	3/8"	5/8"-18 UNF	46,0	19

2

ND AJ**Plug-in nipple, DKJ****Connection 1:**

UN/UNF nut threads

74° inner cone

Sealing form 1:

DKJ

Short code:

ISO 8434-2

Standard:

Steel

Material:

electro galvanised

Surface:

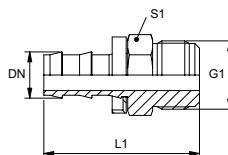
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Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	L1 mm	S1
ND 06 AJ	6	4	1/4"	7/16"-20 UNF	40,0	14
ND 06 AJ 08	6	4	1/4"	1/2"-20 UNF	40,0	17
ND 10 AJ	10	6	3/8"	9/16"-18 UNF	45,0	19
ND 13 AJ	12	8	1/2"	3/4"-16 UNF	51,0	22
ND 13 AJ 16	12	8	1/2"	7/8"-14 UNF	65,0	27
ND 16 AJ	16	10	5/8"	7/8"-14 UNF	65,0	27
ND 20 AJ	19	12	3/4"	1.1/16"-12 UN	67,0	32
ND 25 AJ	25	16	1"	1.5/16"-12 UN	70,0	41

ND HJ**Plug-in nipple, AGJ**

Connection 1: UN/UNF external threads
Sealing form 1: 74° outer cone
Short code: AGJ
Standard: ISO 8434-2
Material: Steel
Surface: electro galvanised



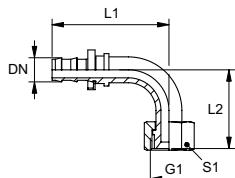
Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	L1 mm	S1
ND 10 HJ	10	6	3/8"	9/16"-18 UNF	45,0	16
ND 13 HJ	12	8	1/2"	3/4"-16 UNF	52,0	19

2

ND AJ 90

Plug-in nipple, DKJ angle 90°



Connection 1:
Sealing form 1:
Short code:
Standard:
Material:
Surface:

UN/UNF nut threads
 74° inner cone
 DKJ
 ISO 8434-2
 Steel
 electro galvanised

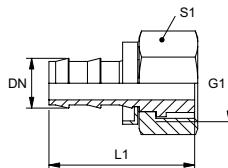
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Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	L1 mm	L2 mm	S1
ND 06 AJ 90	6	4	1/4"	7/16"-20 UNF	39,0	17,0	16
ND 10 AJ 90	10	6	3/8"	9/16"-18 UNF	47,0	23,0	19
ND 20 AJ 90	19	12	3/4"	1.1/16"-12 UN	83,0	48,0	32

ND AJF**Plug-in nipple, ORFS**

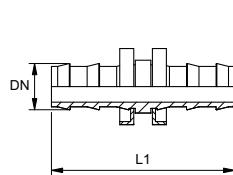
Connection 1: UN/UNF nut threads
Sealing form 1: flat sealing
Short code: ORFS
Standard: ISO 8434-3
Material: Steel
Surface: electro galvanised



Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	G1	L1 mm	S1
ND 06 AJF	6	4	1/4"	9/16"-18 UNF	36,0	18
ND 10 AJF	10	6	3/8"	11/16"-16 UN	40,0	22
ND 10 AJF 13	10	6	3/8"	13/16"-16 UN	43,0	24
ND 13 AJF	12	8	1/2"	13/16"-16 UN	47,0	24
ND 20 AJF	19	12	3/4"	1.3/16"-12 UN	67,0	35

2

ND VB**Plug-in nipple, VB**

Connection 1 + 2: Hose connection
Design: Hose connectors
Material: Steel
Surface: electro galvanised

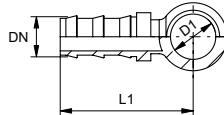
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Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	L1 mm
ND 06 VB	6	4	1/4"	45,0
ND 10 VB	10	6	3/8"	54,0
ND 13 VB	12	8	1/2"	64,0
ND 16 VB	16	10	5/8"	84,0
ND 20 VB	19	12	3/4"	84,0

ND B**Plug-in nipple, RGN**

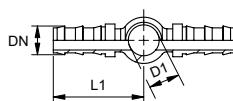
Connection 1: Banjo for metric hollow screw
Sealing form 1: Sealed by copper ring
Connection 2: Hose connection
Short code: RGN
Standard: DIN 7642
Material: Steel
Surface: electro galvanised



Note: Undamaged nipples can be reused.

Identification	DN	Size	Inches	D1 mm	for hollow screw	L1 mm
ND 06 B 02	6	4	1/4"	8,1	M 8	36,0
ND 06 B 04	6	4	1/4"	10,1	M 10	38,0
ND 06 B	6	4	1/4"	12,1	M 12	40,0
ND 06 B 08	6	4	1/4"	14,1	M 14	42,0
ND 10 B 06	10	6	3/8"	12,1	M 12	44,0
ND 10 B 08	10	6	3/8"	14,1	M 14	47,0
ND 10 B	10	6	3/8"	16,1	M 16	49,0
ND 13 B 08	12	8	1/2"	14,1	M 14	51,0
ND 13 B 16	12	8	1/2"	22,1	M 22	58,0
ND 16 B	16	10	5/8"	22,1	M 22	68,0

2

ND BD**Plug-in nipple, RGN****Connection 1:**

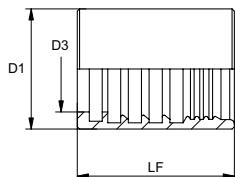
Banjo for metric hollow screw

Sealing form 1: Sealed by copper ring**Connection 2 + 3:** Hose connection**Design:** Double hose connection**Short code:** RGN**Standard:** DIN 7642**Material:** Steel**Surface:** electro galvanised**2****Note:** Undamaged nipples can be reused.

Identification	DN	Size	Inches	D1 mm	for hollow screw	L1 mm
ND 06 BD 04	6	4	1/4"	10,1	M 10	42,0
ND 06 BD	6	4	1/4"	12,1	M 12	45,0
ND 10 BD 08	10	6	3/8"	14,1	M 14	49,0

PHY 100**Swage ferrule, NY 100**

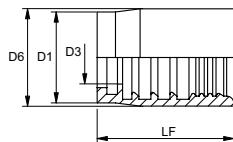
Ferrule type: Non-skive ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PHY 104	5	3	3/16"	16,0	9,5	28,0
PHY 106	6	4	1/4"	19,0	11,6	29,5
PHY 108	8	5	5/16"	22,0	12,7	29,5
PHY 110	10	6	3/8"	23,0	14,3	32,8
PHY 113	12	8	1/2"	26,0	18,6	34,0
PHY 116	16	10	5/8"	30,0	22,0	36,5
PHY 120	19	12	3/4"	33,0	25,7	41,0
PHY 125	25	16	1"	40,0	31,8	41,0

DN = Nominal diameter, nominal width

PHY 2100**Swage ferrule, NY 2100****Ferrule type:****Material:****Surface:**

Non-skive ferrule

Steel

electro galvanised

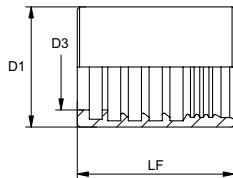
2

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PHY 2106	6	4	1/4"	22,0	9,2	43,0

DN = Nominal diameter, nominal width

PHY 300**Swage ferrule, NY 300**

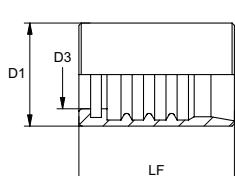
Ferrule type: Non-skive ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PHY 306	6	4	1/4"	18,0	11,3	43,0
PHY 308	8	5	5/16"	20,0	11,3	40,0
PHY 310	10	6	3/8"	23,0	13,7	47,0
PHY 313	12	8	1/2"	29,0	16,6	50,0
PHY 316	16	10	5/8"	32,0	19,9	60,0
PHY 320	19	12	3/4"	37,0	24,5	60,0
PHY 325	25	16	1"	42,0	29,5	60,0

DN = Nominal diameter, nominal width

PHY 700 N**Swage ferrule, NY 700**

Ferrule type:
Material:
Surface:

Non-skive ferrule
Steel
electro galvanised

2

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PHY 704 N	5	3	3/16"	15,0	9,5	29,0
PHY 706 N	6	4	1/4"	18,0	10,8	31,0
PHY 708 N	8	5	5/16"	20,0	12,5	31,0
PHY 710 N	10	6	3/8"	22,0	14,6	33,2
PHY 713 N	12	8	1/2"	27,0	18,3	37,0

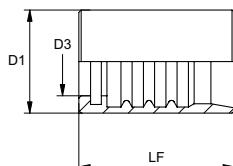
DN = Nominal diameter, nominal width

Product versions:

PHY 700 VA - Swage ferrule, NY 700, Stainless steel

PHY 800 N**Swage ferrule, NY 800**

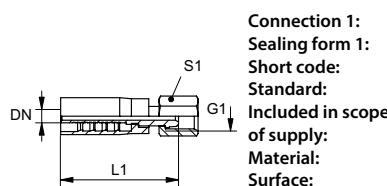
Ferrule type: Non-skive ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PHY 806 N	6	4	1/4"	19,0	11,9	31,0
PHY 808 N	8	5	5/16"	21,0	12,7	31,0
PHY 810 N	10	6	3/8"	23,0	14,8	33,0

DN = Nominal diameter, nominal width

PAY 300 AFL**Swage fitting, DKL****Connection 1:****Sealing form 1:****Short code:****Standard:****Included in scope of supply:****Material:****Surface:**

metric nut thread

24°/60° Universal sealing head

DKL

ISO 8434-1

Swage nipple + swage ferrule

Steel

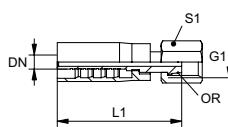
electro galvanised

2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1
PAY 306 AFL	6	4	1/4"	M 14 x 1.5	8	46,0	17
PAY 306 AFL 08	6	4	1/4"	M 16 x 1.5	10	46,0	19
PAY 308 AFL	8	5	5/16"	M 16 x 1.5	10	46,0	19
PAY 310 AFL 08	10	6	3/8"	M 16 x 1.5	10	49,0	22
PAY 310 AFL	10	6	3/8"	M 18 x 1.5	12	48,0	22
PAY 313 AFL	12	8	1/2"	M 22 x 1.5	15	51,0	27
PAY 313 AFL 16	12	8	1/2"	M 26 x 1.5	18		
PAY 316 AFL	16	10	5/8"	M 26 x 1.5	18		
PAY 320 AFL	19	12	3/4"	M 30 x 2	22		

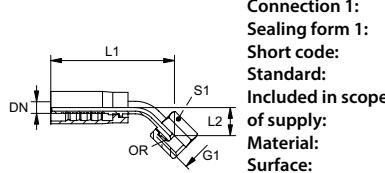
PAY 300 AOS**Swage fitting, DKOS**

Connection 1: metric nut thread
Sealing form 1: 24° outer cone with O-ring
Short code: DKOS
Standard: ISO 8434-1
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1	OR
PAY 306 AOS 04	6	4	1/4"	M 16 x 1.5	8	60,0	19	6.0 x 1.5
PAY 306 AOS	6	4	1/4"	M 18 x 1.5	10	65,0	22	7.5 x 1.5
PAY 308 AOS	8	5	5/16"	M 20 x 1.5	12	63,0	24	9.0 x 1.5
PAY 308 AOS 13	8	5	5/16"	M 24 x 1.5	16			12.0 x 2.0
PAY 310 AOS 08	10	6	3/8"	M 20 x 1.5	12			9.0 x 1.5
PAY 310 AOS	10	6	3/8"	M 22 x 1.5	14	71,0	27	12.0 x 2.0
PAY 313 AOS	12	8	1/2"	M 24 x 1.5	16	78,0	30	12.0 x 2.0
PAY 313 AOS 16	12	8	1/2"	M 30 x 2	20			16.0 x 2.5
PAY 316 AOS	16	10	5/8"	M 30 x 2	20	91,0	36	16.0 x 2.5
PAY 320 AOS	19	12	3/4"	M 36 x 2	25	96,0	46	20.0 x 2.5
PAY 325 AOS	25	16	1"	M 42 x 2	30	98,0	50	25.0 x 2.5
PAY 332 AOS	31	20	1.1/4"	M 52 x 2	38	113,0	60	33.0 x 2.5

PAY 300 AOS 45**Swage fitting, DKOS angle 45°**

Connection 1:
Sealing form 1:
Short code:
Standard:
Included in scope of supply:
Material:
Surface:

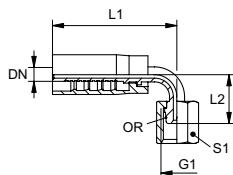
metric nut thread
24° outer cone with O-ring
DKOS
ISO 8434-1
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
PAY 306 AOS 45	6	4	1/4"	M 18 x 1.5	10	82,0	24,0	22	7,5 x 1,5
PAY 308 AOS 45	8	5	5/16"	M 20 x 1.5	12	76,0	20,0	24	9,0 x 1,5
PAY 310 AOS 08 45	10	6	3/8"	M 20 x 1.5	12	81,0	19,0	24	9,0 x 1,5
PAY 313 AOS 45	12	8	1/2"	M 24 x 1.5	16	96,0	23,0	30	12,0 x 2,0
PAY 316 AOS 45	16	10	5/8"	M 30 x 2	20	120,0	30,0	36	16,0 x 2,5
PAY 320 AOS 45	19	12	3/4"	M 36 x 2	25	137,0	37,0	46	20,0 x 2,5
PAY 325 AOS 45	25	16	1"	M 42 x 2	30	136,0	43,0	50	25,0 x 2,5

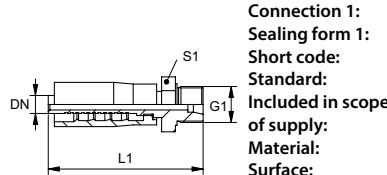
PAY 300 AOS 90**Swage fitting, DKOS angle 90°**

Connection 1: metric nut thread
Sealing form 1: 24° outer cone with O-ring
Short code: DKOS
Standard: ISO 8434-1
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1	OR
PAY 308 AOS 90	8	5	5/16"	M 20 x 1.5	12	64,0	36,0	24	9,0 x 1,5
PAY 313 AOS 90	12	8	1/2"	M 24 x 1.5	16	85,0	44,0	30	12,0 x 2,0
PAY 316 AOS 90	16	10	5/8"	M 30 x 2	20	105,0	61,0	36	16,0 x 2,5

PAY 300 HS**Swage fitting, CES**

Connection 1:
Sealing form 1:
Short code:
Standard:
Included in scope of supply:
Material:
Surface:

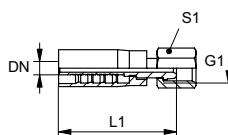
metric cylindrical outer thread
24° inner cone
CES
ISO 8434-1
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1
PAY 306 HS	6	4	1/4"	M 18 x 1.5	10	65,0	19
PAY 308 HS	8	5	5/16"	M 20 x 1.5	12	62,0	22
PAY 310 HS	10	6	3/8"	M 22 x 1.5	14	71,0	22
PAY 313 HS	12	8	1/2"	M 24 x 1.5	16	74,0	24
PAY 316 HS	16	10	5/8"	M 30 x 2	20	88,0	30
PAY 320 HS	19	12	3/4"	M 36 x 2	25	90,0	36
PAY 325 HS	25	16	1"	M 42 x 2	30	92,0	46

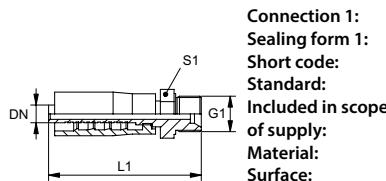
PAY 300 AB**Swage fitting, DKR**

Connection 1: BSP nut thread
Sealing form 1: 60° outer cone
Short code: DKR
Standard: ISO 8434-6, BS 5200
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	S1
PAY 306 AB	6	4	1/4"	G 1/4"-19	58,0	19
PAY 306 AB 10	6	4	1/4"	G 3/8"-19	58,0	27
PAY 308 AB 10	8	5	5/16"	G 3/8"-19	59,0	19
PAY 310 AB	10	6	3/8"	G 3/8"-19	61,0	22
PAY 310 AB 13	10	6	3/8"	G 1/2"-14	61,0	27
PAY 313 AB	12	8	1/2"	G 1/2"-14	61,0	27
PAY 316 AB 20	16	10	5/8"	G 3/4"-14	75,0	32
PAY 320 AB	19	12	3/4"	G 3/4"-14	78,0	32
PAY 320 AB 25	19	12	3/4"	G 1"-11	78,0	41
PAY 325 AB	25	16	1"	G 1"-11	88,0	41
PAY 325 AB 32	25	16	1"	G 1.1/4"-11	77,0	50
PAY 332 AB 40	31	20	1.1/4"	G 1.1/2"-11		

PAY 300 HB**Swage fitting, AGR**

Connection 1:
Sealing form 1:
Short code:
Standard:
Included in scope of supply:
Material:
Surface:

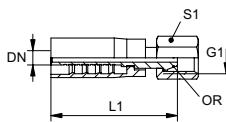
BSP external thread, cylindrical
60° inner cone
AGR
ISO 8434-6, BS 5200
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	S1
PAY 306 HB	6	4	1/4"	G 1/4"-19	64,0	17
PAY 308 HB 10	8	5	5/16"	G 3/8"-19	64,0	22
PAY 310 HB	10	6	3/8"	G 3/8"-19	71,0	22
PAY 310 HB 13	10	6	3/8"	G 1/2"-14	76,0	22
PAY 313 HB	12	8	1/2"	G 1/2"-14	79,0	24
PAY 316 HB 20	16	10	5/8"	G 3/4"-14	92,0	32
PAY 320 HB	19	12	3/4"	G 3/4"-14	92,0	32
PAY 320 HB 25	19	12	3/4"	G 1"-11	100,0	36
PAY 325 HB	25	16	1"	G 1"-11	100,0	36
PAY 325 HB 32	25	16	1"	G 1.1/4"-11	103,0	50
PAY 332 HB 40	31	20	1.1/4"	G 1.1/2"-11	118,0	55

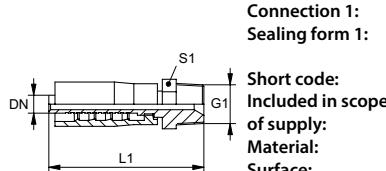
PAY 300 AN**Swage fitting, DKN**

Connection 1: NPT nut thread (NPSM)
Sealing form 1: 60° outer cone
Short code: DKN
Standard: ANSI B 1.20.0
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	S1
PAY 306 AN	6	4	1/4"	1/4" -18 NPT	47,0	19
PAY 308 AN 10	8	5	5/16"	3/8" -18 NPT	48,0	22
PAY 310 AN	10	6	3/8"	3/8" -18 NPT	50,0	22
PAY 313 AN	12	8	1/2"	1/2" -14 NPT	50,0	27
PAY 316 AN 20	16	10	5/8"	3/4" -14 NPT	53,0	32
PAY 320 AN	19	12	3/4"	3/4" -14 NPT	59,0	32
PAY 325 AN	25	16	1"	1" -11.5 NPT		

PAY 300 HN**Swage fitting, AGN**

**Connection 1:
Sealing form 1:**

**Short code:
Included in scope
of supply:
Material:
Surface:**

NPT external threads
thread seal, additional 60° inner
cone.

AGN

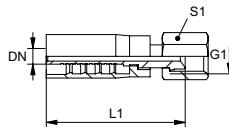
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	S1
PAY 306 HN	6	4	1/4"	1/4"-18 NPT	65,0	14
PAY 306 HN 10	6	4	1/4"	3/8"-18 NPT		
PAY 310 HN	10	6	3/8"	3/8"-18 NPT	71,0	19
PAY 310 HN 13	10	6	3/8"	1/2"-14 NPT	76,0	22
PAY 313 HN	12	8	1/2"	1/2"-14 NPT	79,0	22
PAY 320 HN	19	12	3/4"	3/4"-14 NPT	91,0	27
PAY 325 HN	25	16	1"	1"-11.5 NPT	96,0	36
PAY 325 HN 32	25	16	1"	1.1/4"-11.5 NPT	97,0	46

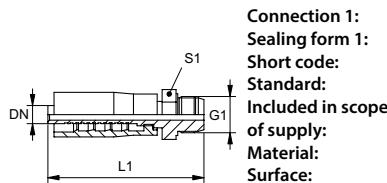
PAY 300 AJ**Swage fitting, DKJ**

Connection 1: UN/UNF nut threads
Sealing form 1: 74° inner cone
Short code: DKJ
Standard: ISO 8434-2
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	S1
PAY 306 AJ	6	4	1/4"	7/16"-20 UNF		
PAY 306 AJ 08	6	4	1/4"	1/2"-20 UNF	55,0	19
PAY 310 AJ	10	6	3/8"	9/16"-18 UNF	59,0	22
PAY 310 AJ 13	10	6	3/8"	3/4"-16 UNF	59,0	24
PAY 313 AJ	12	8	1/2"	3/4"-16 UNF	64,0	27
PAY 313 AJ 16	12	8	1/2"	7/8"-14 UNF	62,0	27
PAY 316 AJ	16	10	5/8"	7/8"-14 UNF	73,0	27
PAY 320 AJ	19	12	3/4"	1.1/16"-12 UN	79,0	36
PAY 325 AJ	25	16	1"	1.5/16"-12 UN	77,0	41
PAY 325 AJ 32	25	16	1"	1.5/8"-12 UN	75,0	50
PAY 332 AJ	31	20	1.1/4"	1.5/8"-12 UN		

PAY 300 HJ**Swage fitting, AGJ**

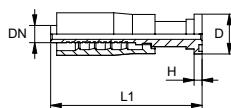
Connection 1: UN/UNF external threads
Sealing form 1: 74° outer cone
Short code: AGJ
Standard: ISO 8434-2
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	S1
PAY 306 HJ 08	6	4	1/4"	1/2"-20 UNF	67,0	14
PAY 308 HJ 10	8	5	5/16"	9/16"-18 UNF	64,0	17
PAY 308 HJ 13	8	5	5/16"	3/4"-16 UNF		
PAY 316 HJ 20	16	10	5/8"	1.1/16"-12 UN	94,0	30
PAY 320 HJ 25	19	12	3/4"	1.5/16"-12 UN	95,0	36
PAY 325 HJ 32	25	16	1"	1.5/8"-12 UN	97,0	46
PAY 332 HJ 40	31	20	1.1/4"	1.7/8"-12 UN	110,0	50

PAY 300 SF**Swage fitting, SFL**

Connection 1: SAE flange connection 3000 PSI
Sealing form 1: flat seal with SF O-ring
Short code: SFL
Standard: SAE J518, ISO 6162-1
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised

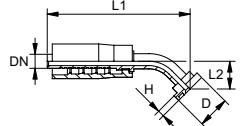


2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PAY 316 SF 20	16	10	5/8"	3/4"	38,1	6,7	95,5
PAY 332 SF	31	20	1.1/4"	1.1/4"	50,8	8,0	117,0

PAY 300 SF 45

Swage fitting, SFL angle 45°



Connection 1:
Sealing form 1:
Short code:
Standard:
Included in scope of supply:
Material:
Surface:

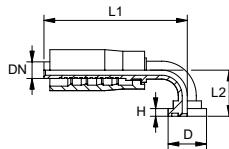
SAE flange connection 3000 PSI
flat seal with SF O-ring
SFL
SAE J518, ISO 6162-1
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PAY 316 SF 20 45	16	10	5/8"	3/4"	38,1	6,7	113,5	24,0
PAY 325 SF 45	25	16	1"	1"	44,4	8,0	125,0	32,0
PAY 332 SF 45	31	20	1.1/4"	1.1/4"	50,8	8,0	174,0	37,0

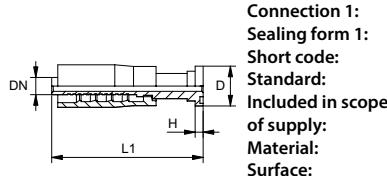
PAY 300 SF 90**Swage fitting, SFL angle 90°**

Connection 1: SAE flange connection 3000 PSI
Sealing form 1: flat seal with SF O-ring
Short code: SFL
Standard: SAE J518, ISO 6162-1
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PAY 316 SF 20 90	16	10	5/8"	3/4"	38,1	6,7	98,5	54,0
PAY 325 SF 90	25	16	1"	1"	44,4	8,0	116,0	69,0
PAY 332 SF 90	31	20	1.1/4"	1.1/4"	50,8	8,0	165,0	82,0

PAY 300 SF6**Swage fitting, SFS**

SAE flange connection 6000 PSI
flat seal with SF O-ring
SFS
SAE J518, ISO 6162-2

Swage nipple + swage ferrule
Steel
electro galvanised

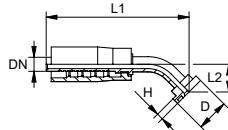
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Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm
PAY 313 SF6	12	8	1/2"	1/2"	31,8	7,7	88,0
PAY 316 SF6 20	16	10	5/8"	3/4"	41,3	8,8	103,0
PAY 320 SF6	19	12	3/4"	3/4"	41,3	8,8	103,5
PAY 325 SF6	25	16	1"	1"	47,6	9,5	113,0
PAY 332 SF6	31	20	1.1/4"	1.1/4"	54,0	10,3	126,0

PAY 300 SF6 45

Swage fitting, SFS angle 45°

Connection 1:	SAE flange connection 6000 PSI
Sealing form 1:	flat seal with SF O-ring
Short code:	SFS
Standard:	SAE J518, ISO 6162-2
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised

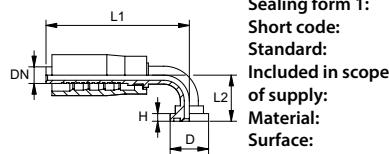


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Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PAY 313 SF6 45	12	8	1/2"	1/2"	31,8	7,7	95,0	21,0
PAY 316 SF6 20 45	16	10	5/8"	3/4"	41,3	8,8	117,5	28,0
PAY 320 SF6 45	19	12	3/4"	3/4"	41,3	8,8	130,5	32,0
PAY 325 SF6 45	25	16	1"	1"	47,6	9,5	130,0	37,0
PAY 332 SF6 45	31	20	1.1/4"	1.1/4"	54,0	10,3	180,5	44,0

PAY 300 SF6 90

Swage fitting, SFS angle 90°

**Connection 1:****Sealing form 1:****Short code:****Standard:****Included in scope of supply:****Material:****Surface:**

SAE flange connection 6000 PSI

flat seal with SF O-ring

SFS

SAE J518, ISO 6162-2

Swage nipple + swage ferrule

Steel

electro galvanised

2

Identification	DN	Size	Inches	Flange size	D mm	H mm	L1 mm	L2 mm
PAY 313 SF6 90	12	8	1/2"	1/2"	31,8	7,7	87,0	41,0
PAY 316 SF6 20 90	16	10	5/8"	3/4"	41,3	8,8	104,5	54,0
PAY 320 SF6 90	19	12	3/4"	3/4"	41,3	8,8	116,5	63,0
PAY 325 SF6 90	25	16	1"	1"	47,6	9,5	116,0	75,0
PAY 332 SF6 90	31	20	1.1/4"	1.1/4"	54,0	10,3	165,0	91,0

PAY 300 AF**Swage fitting, DKF****Connection 1:**

metric nut thread

Sealing form 1:

24° outer cone for French series imperial pipe.

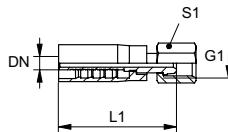
DKF

Short code:**Included in scope of supply:****Material:****Surface:**

Swage nipple + swage ferrule

Steel

electro galvanised

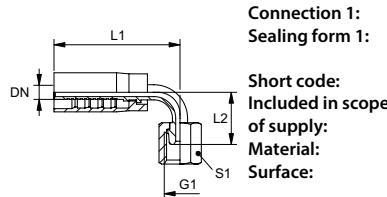


2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	S1
PAY 306 AF 10	6	4	1/4"	M 20 x 1.5	13,25	60,0	24
PAY 308 AF 10	8	5	5/16"	M 20 x 1.5	13,25	57,0	24
PAY 308 AF 13	8	5	5/16"	M 24 x 1.5	16,75	61,0	30
PAY 310 AF	10	6	3/8"	M 20 x 1.5	13,25	64,0	24
PAY 310 AF 13	10	6	3/8"	M 24 x 1.5	16,75	68,0	30
PAY 313 AF	12	8	1/2"	M 24 x 1.5	16,75	71,0	30
PAY 313 AF 16	12	8	1/2"	M 30 x 1.5	21,26	70,0	36
PAY 316 AF	16	10	5/8"	M 30 x 1.5	21,26	80,0	36
PAY 320 AF	19	12	3/4"	M 36 x 1.5	26,75	81,0	42
PAY 325 AF	25	16	1"	M 45 x 1.5	33,50	83,0	55

PAY 300 AF 90

Swage fitting, DKF angle 90°



metric nut thread
24° outer cone for French series
imperial pipe.
DKF

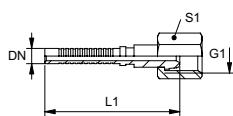
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm	L2 mm	S1
PAY 306 AF 10 90	6	4	1/4"	M 20 x 1.5	13,25	60,0	31,0	24
PAY 308 AF 10 90	8	5	5/16"	M 20 x 1.5	13,25	67,0	35,0	24
PAY 308 AF 13 90	8	5	5/16"	M 24 x 1.5	16,75	67,0	35,0	30
PAY 310 AF 90	10	6	3/8"	M 20 x 1.5	13,25	77,0	40,0	24
PAY 310 AF 13 90	10	6	3/8"	M 24 x 1.5	16,75	77,0	41,0	30
PAY 313 AF 16 90	12	8	1/2"	M 30 x 1.5	21,26	85,0	49,0	36
PAY 313 AF 90	12	8	1/2"	M 24 x 1.5	16,75	85,0	45,0	30
PAY 316 AF 90	16	10	5/8"	M 30 x 1.5	21,26	102,0	54,0	36
PAY 320 AF 90	19	12	3/4"	M 36 x 1.5	26,75	108,0	67,0	42
PAY 325 AF 90	25	16	1"	M 45 x 1.5	33,50	116,0	74,0	55

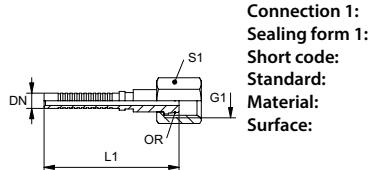
PNY 2100 AFL**Swage nipple, DKL**

Connection 1: metric nut thread
Sealing form 1: 24°/60° Universal sealing head
Short code: DKL
Standard: ISO 8434-1
Material: Steel
Surface: electro galvanised



Note: Appropriate ferrule: PHY 2106.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	S1
PNY 2106 AFL	6	4	1/4"	M 14 x 1.5	8	17

PNY 2100 AOS**Swage nipple, DKOS****Connection 1:**

metric nut thread

24° outer cone with O-ring

DKOS

ISO 8434-1

Steel

electro galvanised

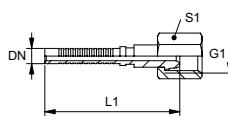
2

Note: Appropriate ferrule: PHY 2106.

Identification	DN	Size	Inches	G1	for external pipe Ø mm	S1	OR
PNY 2106 AOS 04	6	4	1/4"	M 16 x 1.5	8	19	6.0 x 1.5
PNY 2106 AOS	6	4	1/4"	M 18 x 1.5	10	22	7.5 x 1.5

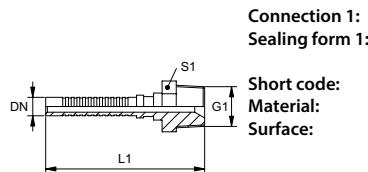
PNY 2100 AB**Swage nipple, DKR**

Connection 1: BSP nut thread
Sealing form 1: 60° outer cone
Short code: DKR
Standard: ISO 8434-6, BS 5200
Material: Steel
Surface: electro galvanised



Note: Appropriate ferrule: PHY 2106.

Identification	DN	Size	Inches	G1	S1
PNY 2106 AB	6	4	1/4"	G 1/4" -19	19

PNY 2100 HN**Swage nipple, AGN**

Connection 1:
Sealing form 1:

Short code:
Material:
Surface:

NPT external threads
thread seal, additional 60° inner
cone.
AGN
Steel
electro galvanised

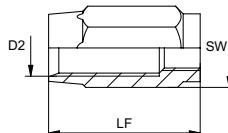
2

Note: Appropriate ferrule: PHY 2106.

Identification	DN	Size	Inches	G1	S1
PNY 2106 HN	6	4	1/4"	1/4"-18 NPT	14
PNY 2106 HN 10	6	4	1/4"	3/8"-18 NPT	19

AFH 100**Screw ferrule, TAF 100**

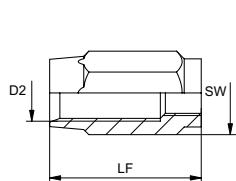
Ferrule type: Screw ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN*	Size	Inches	D2 mm	LF mm	SW mm
AFH 104	4	3	3/16"	7,9	25,0	12
AFH 106	6	4	1/4"	11,0	36,0	17
AFH 108	8	5	5/16"	13,0	38,0	19
AFH 110	10	6	3/8"	15,5	44,5	22
AFH 113	12	8	1/2"	20,1	51,0	27

DN = Nominal diameter, nominal width

BFH 200**Screw ferrule, TBF 200**

Ferrule type:
Material:
Surface:

Screw ferrule
Steel
electro galvanised

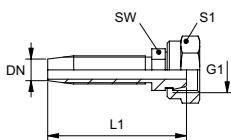
2

Identification	DN*	Size	Inches	D2 mm	LF mm	SW mm
BFH 204	4	3	3/16"	8,8	25,0	12
BFH 206	6	4	1/4"	12,4	36,0	17
BFH 208	8	5	5/16"	14,0	38,0	19
BFH 210	10	6	3/8"	17,5	44,5	22
BFH 213	12	8	1/2"	21,0	51,0	27
BFH 220	19	12	3/4"	26,5	57,0	30

DN = Nominal diameter, nominal width

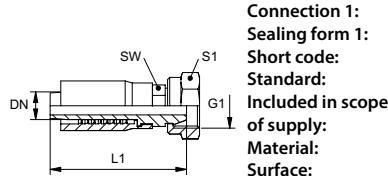
TRN A**Screw nipple, DKM**

Connection 1: metric nut thread
Sealing form 1: 60° sealing head
Short code: DKM
Standard: DIN 3863
Material: Steel
Surface: electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	SW mm	S1
TRN 04 A	5	3	3/16"	M 12 x 1.5	42,5	10	17
TRN 06 A	6	4	1/4"	M 14 x 1.5	58,5	12	17
TRN 06 A 08	6	4	1/4"	M 16 x 1.5	59,5	14	19
TRN 08 A 10	8	5	5/16"	M 18 x 1.5	63,0	17	22
TRN 10 A	10	6	3/8"	M 18 x 1.5	69,5	17	22
TRN 10 A 13	10	6	3/8"	M 22 x 1.5	70,5	22	27

TRP A**Swage fitting, DKM**

Connection 1:
Sealing form 1:
Short code:
Standard:
Included in scope of supply:
Material:
Surface:

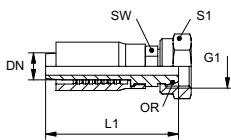
metric nut thread
60° sealing head
DKM
DIN 3863
Swage nipple + swage ferrule
Steel
electro galvanised

2

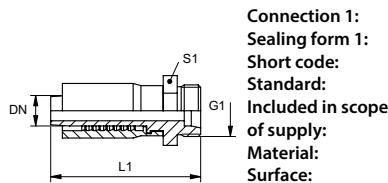
Identification	DN	Size	Inches	G1	L1 mm	SW mm	S1
TRP 04 A	5	3	3/16"	M 12 x 1.5	55,0	10	17
TRP 04 A 08	5	3	3/16"	M 16 x 1.5	55,0	14	22
TRP 06 A	6	4	1/4"	M 14 x 1.5	61,0	14	19
TRP 06 A 08	6	4	1/4"	M 16 x 1.5	61,0	14	22
TRP 08 A	8	5	5/16"	M 16 x 1.5	64,0	17	22
TRP 10 A	10	6	3/8"	M 18 x 1.5	69,0	19	22
TRP 13 A	12	8	1/2"	M 22 x 1.5	75,0	24	27

TRP AOL**Swage fitting, DKOL**

Connection 1: metric nut thread
Sealing form 1: 24° outer cone with O-ring
Short code: DKOL
Standard: ISO 8434-1
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised

**2**

Identification	DN	Size	Inches	Series	G1	for external pipe Ø mm	L1 mm	SW mm	S1	OR
TRP 06 AOL 10	6	4	1/4"	L	M 18 x 1.5	12	57,0	17	22	9.0 x 1.5

TRP HL**Swage fitting, CEL**

Connection 1:
Sealing form 1:
Short code:
Standard:
Included in scope of supply:
Material:
Surface:

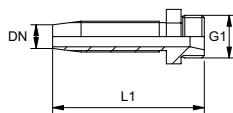
metric cylindrical outer thread
24° inner cone
CEL
ISO 8434-1
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	Series	G1	for external pipe Ø mm	L1 mm	S1
TRP 04 HL	5	3	3/16"	L	M 12 x 1.5	6	47,0	17
TRP 06 HL	6	4	1/4"	L	M 14 x 1.5	8	53,0	17
TRP 08 HL	8	5	5/16"	L	M 16 x 1.5	10	57,0	19
TRP 08 HL 10	8	5	5/16"	L	M 18 x 1.5	12	57,0	22
TRP 10 HL	10	6	3/8"	L	M 18 x 1.5	12	63,0	22
TRP 10 HL 13	10	6	3/8"	L	M 22 x 1.5	15	64,0	27
TRP 13 HL	12	8	1/2"	L	M 22 x 1.5	15	70,0	27

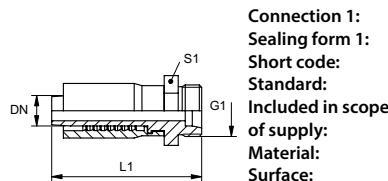
TRN HL**Screw nipple, CEL**

Connection 1: metric cylindrical outer thread
Sealing form 1: 24° inner cone
Short code: CEL
Standard: ISO 8434-1
Material: Steel
Surface: electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Series	G1	for external pipe Ø mm	L1 mm	S1
TRN 04 HL	5	3	3/16"	L	M 12 x 1.5	6	39,5	12
TRN 06 HL	6	4	1/4"	L	M 14 x 1.5	8	56,5	14
TRN 08 HL	8	5	5/16"	L	M 16 x 1.5	10	59,0	17
TRN 08 HL 10	8	5	5/16"	L	M 18 x 1.5	12	59,0	19
TRN 10 HL	10	6	3/8"	L	M 18 x 1.5	12	65,5	19
TRN 20 HL	19	12	3/4"	L	M 30 x 2	22	85,0	30

TRP HS**Swage fitting, CES**

Connection 1:
Sealing form 1:
Short code:
Standard:
Included in scope of supply:
Material:
Surface:

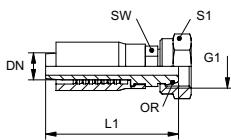
metric cylindrical outer thread
24° inner cone
CES
ISO 8434-1
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	Series	G1	for external pipe Ø mm	L1 mm	S1
TRP 04 HS 03	5	3	3/16"	S	M 14 x 1.5	6	49,0	17
TRP 04 HS	5	3	3/16"	S	M 16 x 1.5	8	49,0	19
TRP 06 HS	6	4	1/4"	S	M 18 x 1.5	10	55,0	22
TRP 06 HS 08	6	4	1/4"	S	M 20 x 1.5	12	55,0	24
TRP 08 HS	8	5	5/16"	S	M 20 x 1.5	12	64,0	24
TRP 10 HS 08	10	6	3/8"	S	M 20 x 1.5	12		
TRP 10 HS	10	6	3/8"	S	M 22 x 1.5	14	66,0	27
TRP 13 HS	12	8	1/2"	S	M 24 x 1.5	16	71,0	27

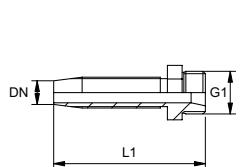
TRP AOS**Swage fitting, DKOS**

Connection 1: metric nut thread
Sealing form 1: 24° outer cone with O-ring
Short code: DKOS
Standard: ISO 8434-1
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	Series	G1	for external pipe Ø mm	L1 mm	SW mm	S1	OR
TRP 04 AOS	5	3	3/16"	S	M 16 x 1.5	8	55,0	14	22	6.0 x 1.5
TRP 06 AOS 04	6	4	1/4"	S	M 16 x 1.5	8	61,0	17	22	6.0 x 1.5
TRP 06 AOS	6	4	1/4"	S	M 18 x 1.5	10	61,0	17	22	7.5 x 1.5
TRP 08 AOS 06	8	5	5/16"	S	M 18 x 1.5	10	64,0	19	22	7.5 x 1.5
TRP 08 AOS	8	5	5/16"	S	M 20 x 1.5	12	64,0	19	24	9.0 x 1.5
TRP 10 AOS 08	10	6	3/8"	S	M 20 x 1.5	12	68,0	19	24	9.0 x 1.5
TRP 10 AOS	10	6	3/8"	S	M 22 x 1.5	14	68,0	22	27	10.0 x 2.0
TRP 13 AOS	12	8	1/2"	S	M 24 x 1.5	16	75,0	24	30	12.0 x 2.0

TRN HS**Screw nipple, CES****Connection 1:****Sealing form 1:** metric cylindrical outer thread

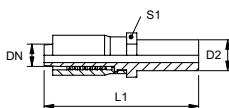
24° inner cone

Short code: CES**Standard:** ISO 8434-1**Material:** Steel**Surface:** electro galvanised**2****Note:** Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Series	G1	for external pipe Ø mm	L1 mm	S1
TRN 04 HS 03	5	3	3/16"	S	M 14 x 1.5	6	42,0	14
TRN 04 HS	5	3	3/16"	S	M 16 x 1.5	8	42,0	14
TRN 06 HS	6	4	1/4"	S	M 18 x 1.5	10	59,5	19
TRN 08 HS	8	5	5/16"	S	M 20 x 1.5	12	60,0	22

TRP FL**Swage fitting, BEL**

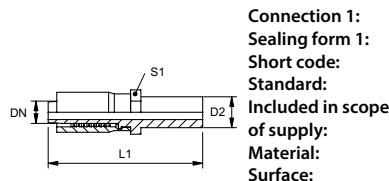
Connection 1:	Pipe sockets
Sealing form 1:	Cutting ring connection
Short code:	BEL
Standard:	ISO 8434-1
Included in scope of supply:	Swage nipple + swage ferrule
Material:	Steel
Surface:	electro galvanised



Note: Final cutting ring assembly must be carried out in the hardened pre-assembly socket (VOM...).

Identification	DN	Size	Inches	Series	D2 mm	L1 mm	SW mm
TRP 04 FL	5	3	3/16"	L	6,0	57,0	10
TRP 10 FL 13	10	6	3/8"	L	15,0	77,0	19
TRP 13 FL	12	8	1/2"	L	15,0	83,0	24
TRP 13 FL 16	12	8	1/2"	L	18,0	83,0	24

2

TRP FS**Swage fitting, BES**

Pipe sockets
Cutting ring connection
BES
ISO 8434-1

Swage nipple + swage ferrule
Steel
electro galvanised

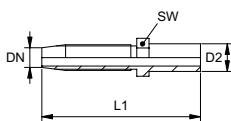
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Note: Final cutting ring assembly must be carried out in the hardened pre-assembly socket (VOM...).

Identification	DN	Size	Inches	Series	D2 mm	L1 mm	SW mm
TRP 04 FS	5	3	3/16"	S	8,0	59,0	14
TRP 06 FS	6	4	1/4"	S	10,0	67,0	14
TRP 06 FS 04	6	4	1/4"	S	8,0	65,0	14
TRP 06 FS 08	6	4	1/4"	S	12,0	68,0	17
TRP 08 FS	8	5	5/16"	S	12,0	71,0	17
TRP 08 FS 06	8	5	5/16"	S	10,0	70,0	17
TRP 10 FS	10	6	3/8"	S	14,0	79,0	19
TRP 10 FS 06	10	6	3/8"	S	10,0	75,0	19
TRP 10 FS 08	10	6	3/8"	S	12,0	77,0	19
TRP 13 FS	12	8	1/2"	S	16,0	87,0	24

TRN FL / TRN FS**Screw nipple, BEL / BES**

Connection 1: Pipe sockets
Sealing form 1: Cutting ring connection
Short code: BEL
Standard: ISO 8434-1
Material: Steel
Surface: electro galvanised

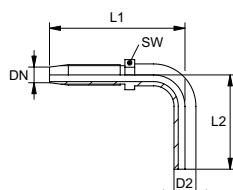


Note: Choose the appropriate ferrule based on the hose type. Final cutting ring assembly must be carried out in the hardened pre-assembly socket (VOM...).

Identification	DN	Size	Inches	Series	D2 mm	L1 mm	SW mm
TRN 04 FL	5	3	3/16"	L	6,0	49,5	10
TRN 06 FL	6	4	1/4"	L	8,0	67,5	12
TRN 08 FL	8	5	5/16"	L	10,0	72,0	12
TRN 10 FL	10	6	3/8"	L	12,0	79,5	14
TRN 10 FL 13	10	6	3/8"	L	15,0	79,5	17
TRN 13 FL	12	8	1/2"	L	15,0	86,0	17
TRN 13 FL 16	12	8	1/2"	L	18,0	86,0	19
TRN 20 FL	19	10	5/8"	L	22,0	96,0	27
TRN 04 FS	5	3	3/16"	S	8,0	51,5	10
TRN 06 FS 04	6	4	1/4"	S	8,0	67,5	12
TRN 06 FS	6	4	1/4"	S	10,0	69,5	12
TRN 06 FS 08	6	4	1/4"	S	12,0	69,5	14
TRN 08 FS	8	5	5/16"	S	12,0	72,0	14
TRN 20 FS	19	12	3/4"	S	25,0	105,0	27

TRN FL 90

Screw nipple, BEL angle 90°



Connection 1:
Sealing form 1:
Short code:
Standard:
Material:
Surface:

Pipe sockets
Cutting ring connection
BEL
ISO 8434-1
Steel
electro galvanised

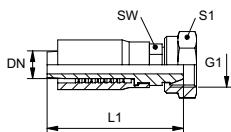
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Note: Choose the appropriate ferrule based on the hose type. Final cutting ring assembly must be carried out in the hardened pre-assembly socket (VOM...).

Identification	DN	Size	Inches	Series	D2 mm	L2 mm	L1 mm	SW mm
TRN 04 FL 90	5	3	3/16"	L	6,0	44,0	45,0	10

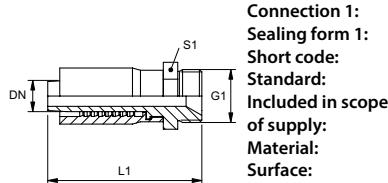
TRP AB**Swage fitting, DKR**

Connection 1: BSP nut thread
Sealing form 1: 60° outer cone
Short code: DKR
Standard: ISO 8434-6, BS 5200
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	SW mm	S1
TRP 04 AB 02	5	3	3/16"	G 1/8"-28	54,0	10	17
TRP 04 AB 06	5	3	3/16"	G 1/4"-19	54,0	14	19
TRP 06 AB	6	4	1/4"	G 1/4"-19	60,0	14	19
TRP 13 AB	12	8	3/8"	G 1/2"-14	74,0	24	27

TRP HB**Swage fitting, AGR**

BSP external thread, cylindrical

60° inner cone

AGR

ISO 8434-6, BS 5200

Swage nipple + swage ferrule

Steel

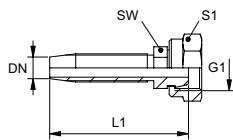
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	S1
TRP 04 HB 02	5	3	3/16"	G 1/8" -28	49,0	14
TRP 13 HB	12	8	1/2"	G 1/2" -14	73,0	24

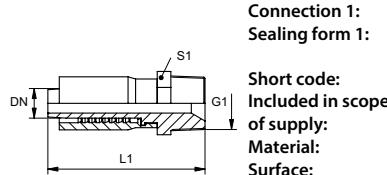
TRN AB**Screw nipple, DKR**

Connection 1: BSP nut thread
Sealing form 1: 60° outer cone
Short code: DKR
Standard: ISO 8434-6, BS 5200
Material: Steel
Surface: electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	L1 mm	SW mm	S1
TRN 04 AB 06	5	3	3/16"	G 1/4" -19	42,5	12	17
TRN 06 AB	6	4	1/4"	G 1/4" -19	58,5	12	17
TRN 10 AB	10	6	3/8"	G 3/8" -19	68,5	17	22

TRP HN**Swage fitting, AGN**

**Connection 1:
Sealing form 1:**

NPT external threads
thread seal, additional 60° inner
cone.

AGN

**Short code:
Included in scope
of supply:
Material:
Surface:**

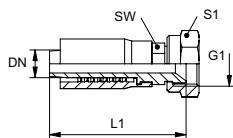
Swage nipple + swage ferrule
Steel
electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	S1
TRP 06 HN	6	4	1/4"	1/4" -18 NPT	58,0	17
TRP 10 HN	10	6	3/8"	3/8" -18 NPT	67,0	22
TRP 13 HN	12	8	1/2"	1/2" -14 NPT	76,0	24

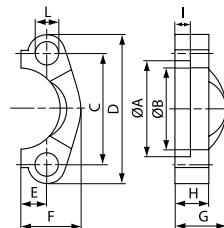
TRP AJ**Swage fitting, DKJ**

Connection 1: UN/UNF nut threads
Sealing form 1: 74° inner cone
Short code: DKJ
Standard: ISO 8434-2
Included in scope of supply: Swage nipple + swage ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	SW mm	S1
TRP 04 AJ 06	5	3	3/16"	7/16"-20 UNF	55,0	14	17
TRP 06 AJ	6	4	1/4"	7/16"-20 UNF	61,0	14	17
TRP 06 AJ 08	6	4	1/4"	1/2"-20 UNF	61,0	14	17
TRP 06 AJ 10	6	4	1/4"	9/16"-18 UNF	61,0	14	19
TRP 08 AJ 10	8	5	5/16"	9/16"-18 UNF	64,0	17	19
TRP 10 AJ	10	6	3/8"	9/16"-18 UNF	69,0	19	19

FH (3000 PSI)**SAE flange half**

Pressure series:
3000 psi
Design:
SAE flange half
Standard:
SAE J518, ISO 6162-1 /-2
Included in scope of supply:
flange only
Material:
Steel
Surface:
electro galvanised
Mounting:
Screw bore hole

Note: Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M metr.	M unc
FH 3001	350	1/2"	31,0	24,3	38,1	54	8,7	22,8	19	13	6,2	8,7	M 8 x 25	5/16" x 1.1/4"
FH 3002	350	3/4"	38,9	32,1	47,6	65	11,1	25,9	22	14	6,2	10,7	M 10 x 30	3/8" x 1.1/4"
FH 3003	315	1"	45,2	38,5	52,4	70	13,1	29,2	24	16	7,5	10,7	M 10 x 30	3/8" x 1.1/4"
FH 3004	250	1.1/4"	51,6	43,7	58,7	79	15,1	36,3	22	16	7,5	12,0	M 10 x 30	7/16" x 1.1/2"
FH 3005	200	1.1/2"	61,1	50,8	69,9	94	17,9	41,1	25	16	7,5	13,5	M 12 x 35	1/2" x 1.1/2"
FH 3006	200	2"	72,2	62,7	77,8	102	21,4	48,2	26	16	9,0	13,5	M 12 x 35	1/2" x 1.1/2"
FH 3007	160	2.1/2"	84,9	74,9	88,9	114	25,4	54,1	38	19	9,0	13,5	M 12 x 40	1/2" x 1.1/2"
FH 3008	160	3"	102,4	90,9	106,4	135	31,0	65,3	41	22	9,0	17,0	M 16 x 50	5/8" x 2"
FH 3009	35	3.1/2"	115,1	102,4	120,7	152	34,9	69,5	28	22	10,7	17,0	M 16 x 50	5/8" x 2"
FH 3010	35	4"	127,8	115,1	130,2	162	38,9	76,0	35	25	10,7	17,0	M 16 x 50	5/8" x 2"
FH 3011	35	5"	153,2	140,5	152,4	184	46,0	90,0	41	28	10,7	17,0	M 16 x 55	5/8" x 2"
FH 3014	250	1.1/4"	51,6	43,7	58,7	79	15,1	36,3	22	16	7,5	10,7	M 10 x 30	-
FH 3044	250	1.1/4"	51,6	43,7	58,7	79	15,1	36,3	22	16	7,5	12,7	M 12 x 35	-

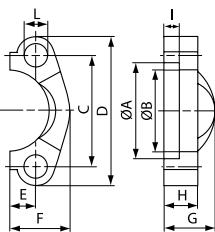
PN = Nominal pressure PB = Max. operating pressure Series: LL = Very light L = Light S = Heavy Ø = External pipe diameter

Product versions:

SFH (3000 PSI / 6000 PSI) VA - SAE flange half, Stainless steel

FH (6000 PSI)**SAE flange half**

Pressure series: 6000 psi
Design: SAE flange half
Standard: SAE J518, ISO 6162-1 /-2
Included in scope of supply: flange only
Material: Steel
Surface: electro galvanised
Mounting: Screw bore hole



Note: Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9	Size	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M metr.	M unc
	bar													
FH 6001	400	1/2"	32,5	24,6	40,5	56	9,1	23,6	22	16	7,2	8,7	M 8 x 30	5/16" x 1.1/4"
FH 6002	400	3/4"	42,1	32,5	50,8	71	11,9	30,0	28	19	8,3	10,7	M 10 x 35	3/8" x 1.1/2"
FH 6003	400	1"	48,4	38,9	57,2	81	13,9	34,8	33	24	9,0	13,0	M 12 x 45	-
FH 6004	400	1.1/4"	54,8	44,5	66,7	95	15,9	38,6	38	27	9,8	14,7	M 14 x 45	-
FH 6005	400	1.1/2"	64,3	51,6	79,4	113	18,3	47,5	43	30	12,1	17,0	M 16 x 55	5/8" x 2"
FH 6006	400	2"	80,2	67,6	96,8	133	22,2	56,9	52	37	12,1	21,0	M 20 x 70	3/4" x 2.1/2"
FH 6013	400	1"	48,4	38,9	57,2	81	13,9	34,8	33	24	9,0	12,0	-	7/16" x 1.3/4"
FH 6044	400	1.1/4"	54,8	44,5	66,7	95	15,9	38,6	38	27	9,8	13,5	-	1/2" x 1.3/4"

Ø = External pipe diameter

Series: LL = Very light

L = Light

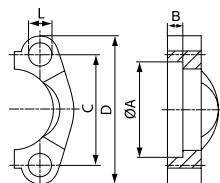
S = Heavy

PN = Nominal pressure

PB = Max. operating pressure

Product versions:

SFH (3000 PSI / 6000 PSI) VA - SAE flange half, Stainless steel

SFH (6000 PSI) CAT**Flange clamp 6000 PSI (CAT)**

suitable for:
Material:
Surface:

Caterpillar
 Steel
 electro galvanised

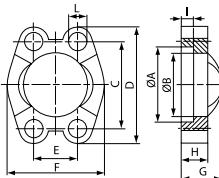
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Note: Recommended screws are listed in the columns M (metr) and M (unc).

Identification	Flange size	PB 10.9 bar	A mm	B mm	C mm	D mm	L mm	M metr.	M unc
SFH9 20	3/4"	400	42,1	13,3	50,8	71	10,7	M 10 x 35	3/8" x 1.1/2"
SFH9 25	1"	400	48,4	13,3	57,2	81	13,0	M 12 x 45	-
SFH9 32	1 1/4"	400	54,8	13,3	66,7	95	15,0	M 14 x 45	-
SFH9 40	1 1/2"	400	64,3	13,3	79,4	11	17,0	M 16 x 55	5/8" x 2"

VF (3000 PSI)**SAE full flange**

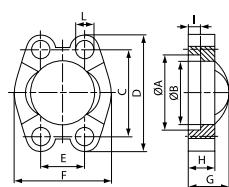
Pressure series:	3000 psi
Design:	SAE full flange
Standard:	SAE J518, ISO 6162-1 /-2
Mounting:	Screw bore hole
Included in scope of supply:	flange only
Material:	Steel
Surface:	electro galvanised



Note: Recommended screws are listed in the columns M (metr) and M (unc).

Identification	Flange size	PB 10.9 bar	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M metr.	M unc
VF 3001	1/2"	350	31,0	24,3	38,1	54	17,5	45,6	19	13	6,2	8,7	M 8 x 25	5/16" x 1 1/4"
VF 3002	3/4"	350	38,9	32,1	47,6	65	22,2	51,8	22	14	6,2	10,7	M 10 x 30	3/8" x 1 1/4"
VF 3003	1"	315	45,2	38,5	52,4	70	26,2	58,4	24	16	7,5	10,7	M 10 x 30	3/8" x 1 1/4"
VF 3003-6000	1"	400	45,2	38,5	52,4	71	26,2	60,0	26	26	7,5	10,5	M 10 x 45	-
VF 3004	1.1/4"	250	51,6	43,7	58,7	79	30,2	72,6	22	16	7,5	12,0	M 10 x 30	7/16" x 1 1/2"
VF 3004-6000	1.1/4"	400	51,6	43,7	58,7	80	30,2	73,0	33	24	7,5	12,5	M 12 x 45	-
VF 3005	1.1/2"	200	61,1	50,8	69,9	94	35,7	82,2	25	16	7,5	13,5	M 12 x 35	1/2" x 1 1/2"
VF 3005-6000	1.1/2"	400	61,1	50,8	69,9	95	35,7	83,0	37	27	7,5	13,5	M 12 x 50	-
VF 3006	2"	200	72,2	62,7	77,8	102	42,9	96,4	26	16	9,0	13,5	M 12 x 35	1/2" x 1 1/2"
VF 3006-6000	2"	400	72,2	62,7	77,8	103	42,9	97,0	43	30	9,0	13,5	M 12 x 50	-
VF 3007	2.1/2"	160	84,9	74,9	88,9	114	50,8	108,2	38	19	9,0	13,5	M 12 x 40	1/2" x 1 1/2"
VF 3007-6000	2.1/2"	400	84,9	74,9	88,9	114	50,8	108,2	49	30	9,0	15,0	M 14 x 50	-
VF 3008	3"	160	102,4	90,9	106,4	135	61,9	130,6	41	22	9,0	17,0	M 16 x 50	5/8" x 2"
VF 3009	3.1/2"	35	115,1	102,4	120,7	152	69,9	139,0	28	22	10,7	17,0	M 16 x 50	5/8" x 2"
VF 3010	4"	35	127,8	115,1	130,2	162	77,8	152,0	35	25	10,7	17,0	M 16 x 50	5/8" x 2"
VF 3011	5"	35	153,2	140,5	152,4	184	92,1	180,0	41	28	10,7	17,0	M 16 x 55	5/8" x 2"

Series: LL = Very light L = Light S = Heavy Ø = External pipe diameter PN = Nominal pressure PB = Max. operating pressure

VF (6000 PSI)**SAE full flange****Pressure series:**

6000 psi

Design: SAE full flange

SAE J518, ISO 6162-1 /-2

Standard: Screw bore hole**Mounting:****Included in scope****of supply:****Material:****Surface:**

flange only

Steel

electro galvanised

2

Note: Recommended screws are listed in the columns M (metr) and M (unc).

Identification	Flange size	PB 10.9	A bar	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M metr.	M unc
VF 6001	1/2"	400	32,5	24,6	40,5	56	18,2	47,2	22	16	7,2	8,7	M 8 x 30	5/16" x 1.1/4"
VF 6002	3/4"	400	42,1	32,5	50,8	71	23,8	60,0	28	19	8,3	10,7	M 10 x 35	3/8" x 1.1/2"
VF 6003	1"	400	48,4	38,9	57,2	81	27,8	69,9	33	24	9,0	13,0	M 12 x 45	-
VF 6003-12	1"	400	48,4	38,9	57,2	81	27,8	69,9	33	24	9,0	12,0	-	7/16" x 1.3/4"
VF 6004	1.1/4"	400	54,8	44,5	66,7	95	31,8	77,2	38	27	9,8	14,7	M 14 x 45	1/2" x 1.3/4"
VF 6005	1.1/2"	400	64,3	51,6	79,4	113	36,5	95,0	43	30	12,1	17,0	M 16 x 55	5/8" x 2"
VF 6006	2"	400	80,2	67,6	96,8	133	44,5	113,8	52	37	12,1	21,0	M 20 x 70	3/4" x 2.1/2"

PN = Nominal pressure

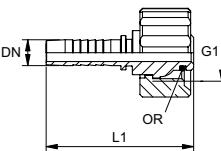
PB = Max. operating pressure

Series: LL = Very light L = Light S = Heavy

Ø = External pipe diameter

PN KAE**Swage nipple, KAE**

Application:	for HF/HW 100 and HF/HW 200 hoses
Connection 1:	metric nut thread
Sealing form 1:	Outer cone with O-ring
suitable for:	Kärcher high pressure cleaners (up to 12/1997)
Material:	Steel
Surface:	electro galvanised
Description:	Union nut with heat protection



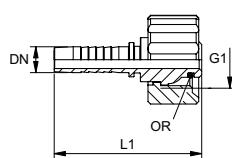
Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	OR
PN 06 KAE	6	4	1/4"	M 22 x 1.5	10.0 x 2.0
PN 08 KAE	8	5	5/16"	M 22 x 1.5	10.0 x 2.0
PN 10 KAE	10	6	3/8"	M 22 x 1.5	10.0 x 2.0

Product versions:

PN KAE VA - Swage nipple, KAE, Stainless steel

2

PN KAE 97**Swage nipple, KAE 97****Application:**

for HF/HW 100 and HF/HW 200 hoses

**Connection 1:
Sealing form 1:
suitable for:**

metric nut thread

Outer cone with O-ring

Kärcher high pressure cleaners (from 12/1997)

Steel

electro galvanised

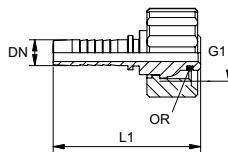
Union nut with heat protection

Material:**Surface:****Description:****2****Note:** Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	OR
PN 06 KAE 97	6	4	1/4"	M 22 x 1.5	11.0 x 1.5
PN 08 KAE 97	8	5	5/16"	M 22 x 1.5	11.0 x 1.5
PN 10 KAE 97	10	6	3/8"	M 22 x 1.5	11.0 x 1.5

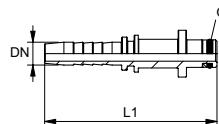
PN WAP**Swage nipple, WAP**

Application:	for HF/HW 100 and HF/HW 200 hoses
Connection 1:	metric nut thread
Sealing form 1:	Outer cone with O-ring
suitable for:	WAP high pressure cleaners
Material:	Steel
Surface:	electro galvanised
Description:	Union nut with heat protection



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	G1	OR
PN 08 WAP	8	5	5/16"	M 21 x 1.5	10.0 x 2.0
PN 10 WAP	10	6	3/8"	M 21 x 1.5	10.0 x 2.0

PN KAE ST**Swage nipple, KAE ST****Application:**

for HF/HW 100 and HF/HW 200 hoses

Plug connection

O-ring sealed pin

Kärcher high pressure cleaners

Steel

electro galvanised

Self-aligning to prevent torsional stress.

OR Connection 1:**Sealing form 1:**
suitable for:

Material:

Surface:

Description:

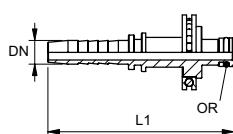
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	D1 mm	OR
PN 06 KAE ST	6	4	1/4"	10,0	6.75 x 1.78
PN 08 KAE ST	8	5	5/16"	10,0	6.75 x 1.78

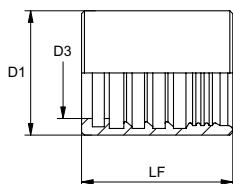
PN KAE STD**Swage nipple, KAE STD**

Application:	for HF/HW 100 and HF/HW 200 hoses
Connection 1:	Rotating plug-in connection with ball bearing
Sealing form 1:	O-ring sealed pin
suitable for:	Kärcher high pressure cleaners
Material:	Steel
Surface:	electro galvanised
Description:	Self-aligning to prevent torsional stress.



Note: Not suitable for use as rotary fitting. Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	D1 mm	OR
PN 08 KAE STD	8	5	5/16"	11,0	7,65 x 1,78

PHF 100**Swage ferrule, TF 100**

Ferrule type:
Material:
Surface:

Non-skive ferrule
Steel
electro galvanised

2

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PHF 104	5	3	3/16"	13	8,3	30
PHF 106	6	4	1/4"	15	10,6	32
PHF 108	8	5	5/16"	17	12,2	33
PHF 110	10	6	3/8"	19	13,7	33
PHF 113	12	8	1/2"	24	18,0	37
PHF 116	16	10	5/8"	27	21,5	37
PHF 120	19	12	3/4"	32	25,0	41
PHF 125	25	16	1"	38	31,0	41

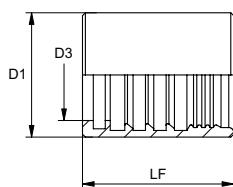
DN = Nominal diameter, nominal width

Product versions:

PHF 100 VA - Swage ferrule, TF 100, Stainless steel

PHF 200**Swage ferrule, TF 200**

Ferrule type: Non-skive ferrule
Material: Steel
Surface: electro galvanised



2

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PHF 206	6	4	1/4"	16	10,6	33
PHF 208	8	5	5/16"	19	12,3	33
PHF 210	10	6	3/8"	21	13,7	35
PHF 213	12	8	1/2"	26	18,5	37

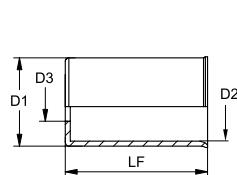
DN = Nominal diameter, nominal width



Hose fittings

Industry hose fittings

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SIH 100 - SIH 700**Swage ferrule for SI + textile hose**

Ferrule type:
Material:
Surface:

Non-skive ferrule
Steel
electro galvanised

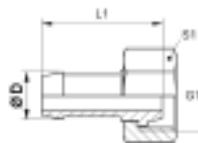
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Identification	DN*	Size	Inches	D1 mm	D2 mm	D3 mm	LF mm
SIH 103	3	2	-	11,3	10,0	6,5	17
SIH 104	4	3	3/16"	13,2	12,0	7,5	20
SIH 106	6	4	1/4"	14,8	13,5	10,0	20
SIH 108	8	5	5/16"	17,0	16,0	11,7	20
SIH 110	10	6	3/8"	20,6	19,0	13,8	26
SIH 113	12	8	1/2"	26,5	24,5	17,0	33
SIH 116	16	10	5/8"	30,0	28,0	20,5	34
SIH 204	4	3	3/16"	13,2	12,0	7,5	17
SIH 206	6	4	1/4"	14,8	13,5	10,0	20
SIH 304	4	3	3/16"	14,6	13,5	7,5	20
SIH 306	6	4	1/4"	16,3	15,0	10,0	20
SIH 308	8	5	5/16"	18,5	17,0	11,7	21
SIH 310	10	6	3/8"	23,9	22,0	15,6	32
SIH 404	4	3	3/16"	14,6	13,5	7,5	20
SIH 408	8	5	5/16"	19,6	18,0	13,8	21
SIH 413	12	8	1/2"	28,3	26,5	19,5	33
SIH 504	4	3	3/16"	10,3	10,3	5,5	17
SIH 510	10	6	3/8"	16,1	15,0	11,7	20
SIH 513	12	8	1/2"	19,6	18,0	13,8	21
SIH 605	4	3	3/16"	12,1	11,0	6,5	17
SIH 606	6	4	1/4"	14,6	13,5	7,5	20
SIH 706	6	4	1/4"	16,4	15,0	7,5	20
SIH 713	12	8	1/2"	25,0	23,0	17,0	32

DN = Nominal diameter, nominal width

SIN AFL**Swage nipple, DKL**

Connection 1: metric nut thread
Sealing form 1: 24°/60° Universal sealing head
Short code: DKL
Standard: similar to DIN 3863
Material: Steel
Surface: electro galvanised

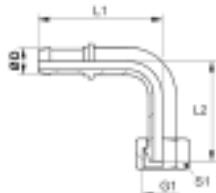


Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm	G1	L1 mm	S1
SIN 03 AFL 02	3	2	1/8"	5,0	M 10 x 1	27	12
SIN 04 AFL	4	3	3/16"	6,0	M 12 x 1.5	30	14
SIN 04 AFL 06	4	3	3/16"	6,0	M 14 x 1.5	31	17
SIN 04 AFL 08	4	3	3/16"	6,0	M 16 x 1.5	31	19
SIN 06 AFL	6	4	1/4"	8,0	M 14 x 1.5	32	17
SIN 06 AFL 08	6	4	1/4"	8,0	M 16 x 1.5	33	19
SIN 08 AFL	8	5	5/16"	10,0	M 16 x 1.5	33	19
SIN 08 AFL 10	8	5	5/16"	10,0	M 18 x 1.5	33	22
SIN 10 AFL	10	6	3/8"	12,0	M 18 x 1.5	35	22
SIN 13 AFL	12	8	1/2"	15,0	M 22 x 1.5	43	27
SIN 13 AFL 16	12	8	1/2"	15,0	M 26 x 1.5	41	32
SIN 16 AFL	16	10	5/8"	18,0	M 26 x 1.5	42	32

SIN AFL 90

Swage nipple, DKL angle 90°

**Connection 1:**

metric nut thread

Sealing form 1: 24°/60° Universal sealing head

DKL

Short code:

similar to DIN 3863

Standard:

Steel

Material:

electro galvanised

Surface:

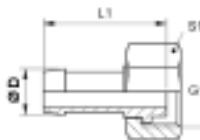
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm	G1	L1 mm	L2 mm	S1
SIN 03 AFL 02 90	3	2	1/8"	5,0	M 10 x 1	37	27	12
SIN 04 AFL 90	4	3	3/16"	6,0	M 12 x 1.5	51	31	14
SIN 06 AFL 90	6	4	1/4"	8,0	M 14 x 1.5	52	38	17
SIN 08 AFL 90	8	5	5/16"	10,0	M 16 x 1.5	58	45	19
SIN 10 AFL 90	10	6	3/8"	12,0	M 18 x 1.5	66	49	22
SIN 13 AFL 90	12	8	1/2"	15,0	M 22 x 1.5	79	62	27

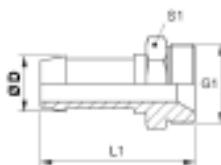
SIN AM**Swage nipple, DKM-Flat**

Connection 1: metric nut thread
Sealing form 1: flat sealing
Short code: DKM flat
Material: Steel
Surface: electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm	G1	S1
SIN 03 AM 02	3	2	1/8"	5,0	M 10 x 1	12
SIN 04 AM	4	3	3/16"	6,0	M 12 x 1.5	14
SIN 06 AM	6	4	1/4"	8,0	M 14 x 1.5	17
SIN 08 AM	8	5	5/16"	10,0	M 16 x 1.5	19
SIN 10 AM	10	6	3/8"	12,0	M 18 x 1.5	22
SIN 12 AM	12	8	1/2"	15,0	M 22 x 1.5	27
SIN 13 AM 16	12	8	1/2"	15,0	M 26 x 1.5	32
SIN 16 AM	16	10	5/8"	18,0	M 26 x 1.5	32

SIN H**Swage nipple, AGM****Connection 1:**

metric cylindrical outer thread

60° inner cone

Sealing form 1: AGM**Short code:** Steel**Material:** electro galvanised**Surface:**

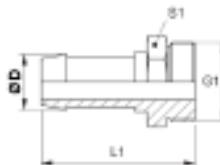
2

Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm	G1
SIN 03 H 02	3	2	1/8"	5,0	M 10 x 1
SIN 04 H	4	3	3/16"	6,0	M 12 x 1.5
SIN 06 H	6	4	1/4"	8,0	M 14 x 1.5
SIN 08 H	8	5	5/16"	10,0	M 16 x 1.5
SIN 10 H	10	6	3/8"	12,0	M 18 x 1.5
SIN 12 H	12	8	1/2"	15,0	M 22 x 1.5
SIN 13 H 16	12	8	1/2"	15,0	M 26 x 1.5
SIN 16 H	16	10	5/8"	18,0	M 26 x 1.5

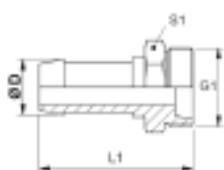
SIN HM**Swage nipple, AGM-Flat**

Connection 1: metric cylindrical outer thread
Sealing form 1: flat sealing
Short code: AGM
Standard: DIN 3852, ISO 724
Material: Steel
Surface: electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm	G1
SIN 13 HM	12	8	1/2"	15,0	M 22 x 1.5
SIN 13 HM 16	12	8	1/2"	15,0	M 26 x 1.5
SIN 16 HM	16	10	5/8"	18,0	M 26 x 1.5

SIN HL**Swage nipple, CEL****Connection 1:**

metric cylindrical outer thread

24° inner cone

CEL

Standard: DIN 3861, DIN ISO 12151-2

Material: Steel

Surface: electro galvanised

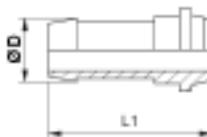
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm	G1	for external pipe Ø mm
SIN 03 HL	3	2	1/8"	5,0	M 10 x 1	5
SIN 04 HL	4	3	3/16"	6,0	M 12 x 1.5	6
SIN 06 HL	6	4	1/4"	8,0	M 14 x 1.5	8
SIN 08 HL	8	5	5/16"	10,0	M 16 x 1.5	10
SIN 10 HL	10	6	3/8"	12,0	M 18 x 1.5	12
SIN 13 HL	12	8	1/2"	15,0	M 22 x 1.5	15
SIN 13 HL 16	12	8	1/2"	15,0	M 26 x 1.5	18
SIN 16 HL	16	10	5/8"	18,0	M 26 x 1.5	18

SIN DK**Swage nipple, DK**

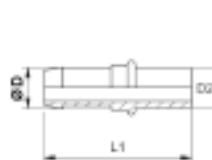
Sealing form 1: 24°/60° outer cone
Standard: similar to DIN 3863
Included in scope of supply: Nipple without union nut
Material: Steel
Surface: electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm	for metric union nut	for BSP union nut
SIN 03 DK	3	2	1/8"	5,0	SUEM02L	SUEM03R04
SIN 04 DK	4	3	3/16"	6,0	SUEM04L	SUEM04R06
SIN 04 DK 06	4	3	3/16"	6,0	SUEM06L	-
SIN 04 DK 08	4	3	3/16"	6,0	SUEM08L	-
SIN 06 DK	6	4	1/4"	8,0	SUEM06L	SUEM06R
SIN 06 DK 08	6	4	1/4"	8,0	SUEM08L	-
SIN 08 DK	8	5	5/16"	10,0	SUEM08L	SUEM08R10
SIN 08 DK 10	8	5	5/16"	10,0	SUEM10L	-
SIN 10 DK	10	6	3/8"	12,0	SUEM10L	-
SIN 13 DK	12	8	1/2"	15,0	SUEM13L	-
SIN 13 DK 16	12	8	1/2"	15,0	SUEM16L	-
SIN 16 DK	16	10	5/8"	18,0	SUEM16L	-

2

SIN FL**Swage nipple, BEL****Connection 1:**

Pipe sockets

Sealing form 1: Cutting ring connection

BEL

Short code:

ISO 8434-1

Standard:

Steel

Material:

electro galvanised

Surface:

2

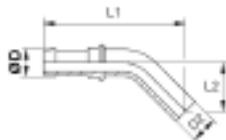
Note: Do not use for new designs; we recommend: SIN...AFL. Final cutting ring assembly must be carried out in the hardened pre-assembly socket (VOM...). Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm	Ø d2 mm	L1 mm
SIN 03 FL 02	3	2	1/8"	4	54	
SIN 04 FL 03	4	3	3/16"	6,0	5	48
SIN 04 FL	4	3	3/16"	6,0	6	54
SIN 06 FL	6	4	1/4"	8,0	8	51
SIN 08 FL	8	5	5/16"	10,0	10	51
SIN 10 FL	10	6	3/8"	12,0	12	57
SIN 13 FL	12	8	1/2"	15,0	15	61
SIN 16 FL	16	10	5/8"	18,0	18	76

SIN FL 45

Swage nipple, BEL angle 45°

Connection 1:	Pipe sockets
Sealing form 1:	Cutting ring connection
Short code:	BEL
Standard:	ISO 8434-1
Material:	Steel
Surface:	electro galvanised

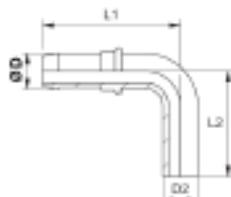


Note: Final cutting ring assembly must be carried out in the hardened pre-assembly socket (VOM...). Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm	Ø d2 mm	L1 mm	L2 mm
SIN 04 FL 45	4	3	3/16"	6,0	6	53	15
SIN 06 FL 45	6	4	1/4"	8,0	8	62	23
SIN 08 FL 45	8	5	5/16"	10,0	10	79	25
SIN 10 FL 45	10	6	3/8"	12,0	12	88	32
SIN 13 FL 45	12	8	1/2"	15,0	15		

SIN FL 90

Swage nipple, BEL angle 90°

**Connection 1:****Sealing form 1:****Short code:****Standard:****Material:****Surface:**

Pipe sockets

Cutting ring connection

BEL

ISO 8434-1

Steel

electro galvanised

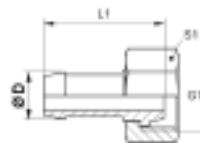
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Note: Do not use for new designs; we recommend: SIN...AFL...90. Choose the appropriate ferrule based on the hose type. Final cutting ring assembly must be carried out in the hardened pre-assembly socket (VOM...).

Identification	DN	Size	Inches	Ø D mm	Ø d2 mm	L1 mm	L2 mm
SIN 04 FL 90	4	3	3/16"	6,0	6	46	30
SIN 06 FL 90	6	4	1/4"	8,0	8	52	34
SIN 08 FL 90	8	5	5/16"	10,0	10	58	40
SIN 10 FL 90	10	6	3/8"	12,0	12	66	46
SIN 12 FL 90	12	8	1/2"	15,0	15	79	57
SIN 16 FL 90	16	10	5/8"	18,0	18	94	64

SIN AB**Swage nipple, DKR**

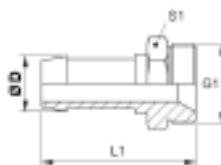
Connection 1:	BSP nut thread
Sealing form 1:	60° outer cone
Short code:	DKR
Standard:	ISO 228-1, ISO 8434-6, BS 5200
Material:	Steel
Surface:	electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm	G1
SIN 04 AB	4	3	3/16"	6,0	G 1/8" -28
SIN 04 AB 06	4	3	3/16"	6,0	G 1/4" -19
SIN 06 AB	6	4	1/4"	8,0	G 1/4" -19
SIN 08 AB 10	8	5	5/16"	10,0	G 3/8" -19
SIN 10 AB 13	10	6	3/8"	12,0	G 1/2" -14

2

SIN HB**Swage nipple, AGR****Connection 1:**

BSP external thread, cylindrical

60° inner cone

Sealing form 1: AGR**Short code:** ISO 228-1, ISO 8434-6, BS 5200**Standard:** Brass**Material:**

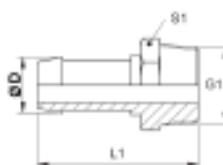
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm	G1
SIN 03 HB 04	3	2	1/8"	5,0	G 1/8" -28
SIN 04 HB 06	4	3	3/16"	6,0	G 1/4" -19
SIN 06 HB	6	4	1/4"	8,0	G 1/4" -19
SIN 06 HB 10	6	4	1/4"	8,0	G 3/8" -19
SIN 08 HB 10	8	5	5/16"	10,0	G 3/8" -19
SIN 10 HB 13	10	6	3/8"	12,0	G 1/2" -14
SIN 13 HB	12	8	1/2"	15,0	G 1/2" -14

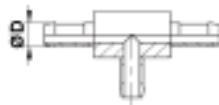
SIN HN**Swage nipple, AGN**

Connection 1: NPT external threads
Sealing form 1: thread seal
Short code: AGN
Standard: SAE J516, SAE J514
Material: Steel
Surface: electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm	G1
SIN 03 HN 04	3	2	1/8"	5,0	1/8" -27 NPT
SIN 04 HN	4	3	3/16"	6,0	1/8" -27 NPT
SIN 04 HN 06	4	3	3/16"	6,0	1/4" -18 NPT
SIN 06 HN	6	4	1/4"	8,0	1/4" -18 NPT
SIN 08 HN 10	8	5	5/16"	10,0	3/8" -18 NPT

SIN T VB**Swage nipple, VB, T shaped**

Connection 1 - 3: Hose connection
Material: Steel
Surface: electro galvanised

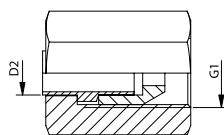
2

Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm
SIN 03 T VB	3	2	1/8"	5,0
SIN 04 T VB	4	3	3/16"	6,0
SIN 06 T VB	6	4	1/4"	8,0
SIN 08 T VB	8	5	5/16"	10,0
SIN 10 T VB	10	6	3/8"	12,0

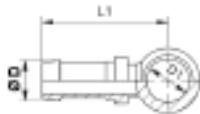
SIN DES**Swage nipple, DES**

Connection 1: metric cylindrical inner thread
suitable for: Diesel quick connector
Material: Steel
Surface: electro galvanised



2

Identification	G1	for external pipe Ø mm
SIN 12 DES	M 12 x 1.5	6
SIN 14 DES	M 14 x 1.5	6

SIN B**Swage nipple, RGN****Connection 1:**

Banjo for metric hollow screw

Sealed by copper ring

Short code: RGN

DIN 7642

Standard: DIN 7642

Steel

Material: Steel

electro galvanised

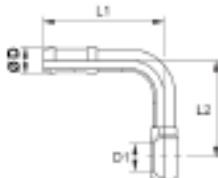
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm	D1 mm	for hollow screw
SIN 03 B 02	3	2	1/8"	5,0	8	M 8
SIN 04 B	4	3	3/16"	6,0	10	M 10
SIN 04 B 06	4	3	3/16"	6,0	12	M 12
SIN 04 B 08	4	3	3/16"	6,0	14	M 14
SIN 06 B 04	6	4	1/4"	8,0	10	M 10
SIN 06 B	6	4	1/4"	8,0	12	M 12
SIN 06 B 08	6	4	1/4"	8,0	14	M 14
SIN 08 B 06	8	5	5/16"	10,0	12	M 12
SIN 08 B	8	5	5/16"	10,0	14	M 14
SIN 08 B 10	8	5	5/16"	10,0	16	M 16
SIN 08 B 13	8	5	5/16"	10,0	18	M 18
SIN 10 B	10	6	3/8"	12,0	16	M 16
SIN 10 B 13	10	6	3/8"	12,0	18	M 18
SIN 13 B	12	8	1/2"	15,0	18	M 18
SIN 13 B 16	12	8	1/2"	15,0	22	M 22
SIN 13 B 20	12	8	1/2"	15,0	26	M 26
SIN 16 B	16	10	5/8"	18,0	22	M 22
SIN 16 B 20	16	10	5/8"	18,0	26	M 26

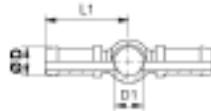
SIN B 90**Swage nipple, RGN angle 90°**

Connection 1: Banjo for metric hollow screw
Sealing form 1: Sealed by copper ring
Short code: RGN
Standard: DIN 7642
Material: Steel
Surface: electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm	D1 mm	for hollow screw	L1 mm	L2 mm
SIN 03 B 02 90	3	2	1/4"	5,0	8	M 8	45	27
SIN 04 B 90	4	3	3/16"	6,0	10	M 10	45	45
SIN 06 B 90	6	4	1/4"	8,0	12	M 12	52	42
SIN 08 B 90	8	5	5/16"	10,0	14	M 14	58	54

SIN BD**Swage nipple, RGN**

Connection 1:	Banjo for metric hollow screw
Connection 2 + 3:	Hose connection
Sealing form 1:	Sealed by copper ring
Design:	Double hose connection
Short code:	RGN
Standard:	DIN 7642
Material:	Steel
Surface:	electro galvanised

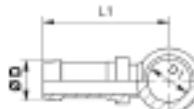
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Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm	D1 mm	for hollow screw
SIN 03 BD 02	3	2	1/8"	5,0	8	M 8
SIN 04 BD	4	3	3/16"	6,0	10	M 10
SIN 06 BD	6	4	1/4"	8,0	12	M 12
SIN 08 BD	8	5	5/16"	10,0	14	M 14

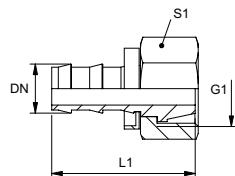
SIN BR**Swage nipple, RGN**

Connection 1: Banjo for imperial hollow screw
Sealing form 1: Sealed by copper ring
Short code: RNR
Standard: DIN 7642
Material: Steel
Surface: electro galvanised



Note: Choose the appropriate ferrule based on the hose type.

Identification	DN	Size	Inches	Ø D mm	D1 mm	for hollow screw
SIN 04 BR 06	4	3	3/16"	6,0	13,5	R 1/4"
SIN 06 BR 10	6	4	1/4"	8,0	16,8	R 3/8"

TRA**Drive type nipple, DKM**

Connection 1:
Sealing form 1:
Standard:
Material:
Surface:

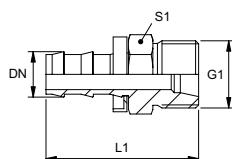
metric nut thread
 60° sealing head
 DIN 3863
 Steel
 electro galvanised

2

Identification	DN	Size	Inches	G1	L1 mm	S1
TR 04 A	5	3	3/16"	M 12 x 1.5	28	14
TR 06 A	6	4	1/4"	M 14 x 1.5	28	17
TR 06 A 08	6	4	1/4"	M 16 x 1.5	28	19
TR 08 A 06	8	5	5/16"	M 14 x 1.5	34	19
TR 08 A	8	5	5/16"	M 16 x 1.5	34	19
TR 10 A 08	10	6	3/8"	M 16 x 1.5	34	19
TR 10 A	10	6	3/8"	M 18 x 1.5	34	22
TR 13 A	12	8	1/2"	M 22 x 1.5	45	27

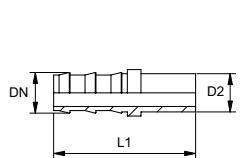
TR HL**Drive type nipple, CEL**

Connection 1: metric cylindrical outer thread
Sealing form 1: 24° inner cone
Standard: ISO 8434-1
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	G1	for external pipe Ø mm	L1 mm
TR 04 HL	5	3	3/16"	M 12 x 1.5	6	30
TR 06 HL	6	4	1/4"	M 14 x 1.5	8	31
TR 08 HL 06	8	5	5/16"	M 14 x 1.5	8	38
TR 08 HL	8	5	5/16"	M 16 x 1.5	10	38
TR 10 HL 08	10	6	3/8"	M 16 x 1.5	10	38
TR 10 HL	10	6	3/8"	M 18 x 1.5	12	39
TR 13 HL	12	8	1/2"	M 22 x 1.5	15	52

TR FL / TR FS**Drive type nipple, BEL / BES****Connection 1:****Sealing form 1:****Short code:****Standard:****Material:****Surface:**

Pipe sockets

Cutting ring connection

BEL / BES

ISO 8434-1

Steel

electro galvanised

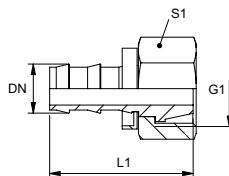
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Note: Final cutting ring assembly must be carried out in the hardened pre-assembly socket (VOM...).

Identification	DN	Size	Inches	Series	D2 mm	L1 mm
TR 04 FL	5	3	3/16"	L	6	36
TR 06 FL	6	4	1/4"	L	8	38
TR 08 FL 06	8	5	5/16"	L	8	45
TR 08 FL	8	5	5/16"	L	10	47
TR 10 FL 08	10	6	3/8"	L	10	48
TR 10 FL	10	6	3/8"	L	12	47
TR 13 FL	12	8	1/2"	L	15	57
TR 16 FL	16	10	5/8"	L	18	57
TR 06 FS	6	4	1/4"	S	10	41
TR 08 FS	8	5	5/16"	S	12	47

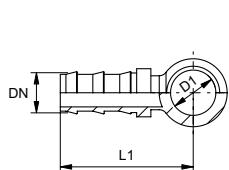
TR AB**Drive type nipple, DKR**

Connection 1: BSP nut thread
Sealing form 1: 60° outer cone
Short code: DKR
Standard: ISO 8434-6, BS 5200
Material: Steel
Surface: electro galvanised



2

Identification	DN	Size	Inches	G1	L1 mm	S1
TR 04 AB 06	5	3	3/16"	G 1/4"-19	28	17
TR 10 AB	10	6	3/8"	G 3/8"-19	34	20
TR 10 AB 13	10	6	3/8"	G 1/2"-14		

TR B**Drive type nipple, RGN**

Connection 1:
Sealing form 1:
Short code:
Standard:
Material:
Surface:

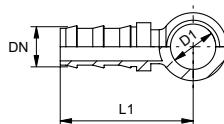
Metric banjos
Sealed by copper ring
RGN
DIN 7642
Steel
electro galvanised

2

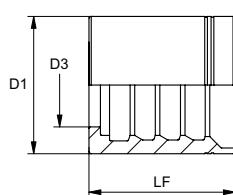
Identification	DN	Size	Inches	D1 mm	L1 mm
TR 04 B 02	5	3	3/16"	8	24
TR 04 B	5	3	3/16"	10	26
TR 06 B 04	6	4	1/4"	10	26
TR 06 B	6	4	1/4"	12	28
TR 06 B 08	6	4	1/4"	14	28
TR 06 B 10	6	4	1/4"	16	30
TR 08 B 06	8	5	5/16"	12	34
TR 08 B	8	5	5/16"	14	34
TR 08 B 10	8	5	5/16"	16	36
TR 10 B 08	10	6	3/8"	14	34
TR 10 B	10	6	3/8"	16	36

TR BR**Drive type nipple, RGN**

Connection 1: imperial banjo
Standard: DIN 7642
Material: Steel
Surface: electro galvanised

**2**

Identification	DN	Size	Inches	D1 mm
TR 08 BR 10	8	5	5/16"	17

PHD KANA**Pressed holder for channel rinsing hose**

Ferrule type:
Material:
Surface:

Non-skive ferrule
 Steel
 electro galvanised

2

Identification	DN*	Size	Inches	D1 mm	D3 mm	LF mm
PHD 13 KANA	13	8	1/2"	34,8	20,0	35,0
PHD 20 KANA	19	12	3/4"	41,1	26,5	46,5
PHD 25 KANA	25	16	1"	49,7	33,8	53,0
PHD 32 KANA	31	20	1.1/4"	59,5	41,8	63,0

DN = Nominal diameter, nominal width

KANA AB**Screw fitting for drain cleaning hose**

Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° outer cone
Short code:	DKR
Included in scope of supply:	Screw nipple + screw mount
Material:	Steel
Surface:	electro galvanised
Standard:	ISO 228-1, ISO 8434-6, BS 5200



2

Identification	DN*	Size	Inches	G1
KANA 13 AB	12	8	1/2"	G 1 1/2" -14
KANA 20 AB	19	12	3/4"	G 3/4" -14
KANA 20 AB 25	19	12	3/4"	G 1" -11
KANA 25 AB	25	16	1"	G 1" -11

DN = Nominal diameter, nominal width

KANA HB**Screw fitting for drain cleaning hose**

Connection 1:	BSP external thread, cylindrical
Sealing form 1:	60° inner cone
Short code:	AGR
Included in scope of supply:	Screw nipple + screw mount
Material:	Steel
Surface:	electro galvanised
Standard:	ISO 228-1, ISO 8434-6, BS 5200

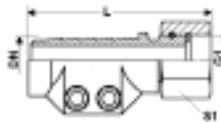
2

Identification	DN*	Size	Inches	G1
KANA 13 HB	12	8	1/2"	G 1/2"-14
KANA 20 HB	19	12	3/4"	G 3/4"-14
KANA 25 HB	25	16	1"	G 1"-11

DN = Nominal diameter, nominal width

DAMPF AR**Steam fittings AR, with steel clamping shell**

Application:	Hot water or saturated steam applications
Connection 1:	BSP nut thread
Sealing form 1:	flat sealing
Working pressure:	up to 18 bar
Short code:	DKR flat
Standard:	DIN EN 14423, thread standard ISO 228/DIN 2999
Included in scope of supply:	with clamping shells and seal
Temp. range:	saturated steam up to +210 °C, hot water up to +120 °C
Material:	Steel, Pressed brass clamping shells
Surface:	electro galvanised



Identification	DN	Size	Inches	G1	L mm	Clamping range (mm)	S1 mm
DAMPF 13 AR	12	8	1/2"	G 1/2"-14	88,0	24 - 26	27
DAMPF 19 AR	19	12	3/4"	G 3/4"-14	92,0	32 - 34	32
DAMPF 25 AR	25	16	1"	G 1"-11	93,0	39 - 41	41
DAMPF 32 AR	31	20	1.1/4"	G 1.1/4"-11	97,5	47 - 50	50
DAMPF 38 AR	38	24	1.1/2"	G 1.1/2"-11	120,0	53 - 56	55
DAMPF 50 AR	51	32	2"	G 2"-11	131,0	67 - 69	70

DN = Nominal diameter, nominal width

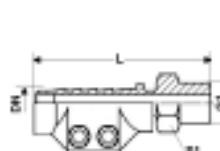
Product versions:

DAMPF AR MG - Steam fittings AR, with clamping brass shell, Brass

DAMPF AR VA - Steam fittings AR, with stainless steel clamping shell, Stainless steel

DAMPF HR

Steam fittings HR, with steel clamping shell


Application:

Hot water or saturated steam applica-

tions
BSP external thread, cylindrical
flat sealing
Connection 1:

up to 18 bar

Sealing form 1:

AGR-Flat

WorkingDIN EN 14423, thread standard ISO
228/DIN 2999
pressure:

228/DIN 2999

Short code:
Standard:
Included in scope
of supply:
Temp. range:
Material:
Surface:

electro galvanised

2

Identification	DN	Size	Inches	G1	L mm	Clamping range (mm)	S1 mm
DAMPF 13 HR	12	8	1/2"	G 1/2" -14	95,0	24 - 26	22
DAMPF 19 HR	19	12	3/4"	G 3/4" -14	95,0	32 - 34	27
DAMPF 25 HR	25	16	1"	G 1"-11	100,0	39 - 41	36
DAMPF 32 HR	31	20	1.1/4"	G 1.1/4"-11	105,0	47 - 50	46
DAMPF 38 HR	38	24	1.1/2"	G 1.1/2"-11	125,0	53 - 56	50
DAMPF 50 HR	51	32	2"	G 2"-11	140,0	67 - 69	60

DN = Nominal diameter, nominal width

Product versions:

DAMPF AR MG - Steam fittings AR, with clamping brass shell, Brass

DAMPF AR VA - Steam fittings AR, with stainless steel clamping shell, Stainless steel

MM TUELLE**Mortar coupling, female part with hose nozzle**

Application:	for mortar, concrete, screed supply on pumps, sprayers and plastering machines
Connection 1:	Hose connection
Connection 2:	Coupling female connection
Special features:	TÜV tested
Media:	Mortar, concrete, screed
Material:	Steel, Malleable cast iron
Surface:	electro galvanised



Note: Type size 25 has one lever, all other type sizes have 2 levers. Note: Parts must only replaced with parts of the same type sizes!

Identification	for hose ID mm	Type size	Ident dimension	Max. working pressure bar	System
MM TUELLE 25	25,0	25	35,5	50	22 / 23,5
MM TUELLE-X25	25,0	X25	42,0	50	22 / 23,5
MM TUELLE 35	35,0	35	51,0	50	22
MM TUELLE 38	38,0	35	51,0	50	22
MM TUELLE 42	42,0	42	54,0	50	22 / 23,5
MM TUELLE 50	50,0	50	64,0	50	22
MM TUELLE 65	65,0	65	74,0	25	22 / 23,5

Spare parts:

MDR - Seal for mortar coupling

MM AG**Mortar coupling, female part AGR**

Application:	for mortar, concrete, screed supply on pumps, sprayers and plastering machines
Connection 1:	BSP external thread, cylindrical
Connection 2:	Coupling female connection
Special features:	TÜV tested
Media:	Mortar, concrete, screed
Material:	Steel, Malleable cast iron
Surface:	electro galvanised

2

Note: Type size 25 has one lever, all other type sizes have 2 levers. Note: Parts must only replaced with parts of the same type sizes!

Identification	G1	Type size	Ident dimension	Max. working pressure bar	System
MM AG 10/25	G 1"-11	25	35,5	50	22 / 23,5
MM AG 10-X25	G 1"-11	X25	42,0	50	22 / 23,5
MM AG 54/35	G 1 1/4" -11	35	51,0	50	22
MM AG 15/42	G 1 1/2" -11	42	54,0	50	22 / 23,5
MM AG 20/50	G 2"-11	50	64,0	50	22
MM AG 25/50	G 2 1/2"-11	50	64,0	50	22

Spare parts:

MDR - Seal for mortar coupling

MM IG**Mortar coupling, female part IGR**

Application:	for mortar, concrete, screed supply on pumps, sprayers and plastering machines
Connection 1:	BSP cylindrical internal threads
Connection 2:	Coupling female connection
Special features:	TÜV tested
Media:	Mortar, concrete, screed
Material:	Steel, Malleable cast iron
Surface:	electro galvanised



Note: Type size 25 and MMIG10-MA have one lever, all other type sizes have 2 levers. Note: Parts must only replaced with parts of the same type sizes!

Identification	G1	Type size	Ident dimension	Max. working pressure bar	System
MM IG 10/25	G 1"-11	25	35,5	50	22 / 23,5
MM IG 10-MA	G 1"-11		38,0	50	May
MM IG 10-X25	G 1"-11	X25	42,0	50	22 / 23,5
MM IG 10/35	G 1"-11	35	51,0	50	22
MM IG 54/35	G 1.1/4"-11	35	51,0	50	22
MM IG 15/35	G 1.1/2"-11	35	51,0	50	22
MM IG 15/42	G 1.1/2"-11	42	54,0	50	22 / 23,5
MM IG 20/50	G 2"-11	50	64,0	50	22
MM IG 25/65	G 2.1/2"-11	65	74,0	25	22 / 23,5

Spare parts:

MDR - Seal for mortar coupling

2

MM V**Mortar coupling, female-male part reduction**

Application:	for mortar, concrete, screed supply on pumps, sprayers and plastering machines
Connection 1:	Coupling female connection
Connection 2:	Coupling male connection
Special features:	TÜV tested
Media:	Mortar, concrete, screed
Material:	Steel, Malleable cast iron
Surface:	electro galvanised

2

Note: Type size 25 has one lever, all other type sizes have 2 levers. Note: Parts must only replaced with parts of the same type sizes!

Identification	Type size	Ident dimension	Max. working pressure bar	System
MM V-X25/25	X25 / 25	42,0 / 35,5	50	22 / 23,5
MM V 35/X25	35 / X25	51,0 / 42,0	50	22
MM V 42/35	42 / 35	54,0 / 35,0	50	22
MM V 50/35	50 / 35	64,0 / 51,0	50	22
MM V 50/42	50 / 42	64,0 / 42,0	50	22

Spare parts:

MDR - Seal for mortar coupling

MV TUELLE**Mortar coupling, male part with hose nozzle**

Application:	for mortar, concrete, screed supply on pumps, sprayers and plastering machines
Connection 1:	Hose connection
Connection 2:	Coupling male connection
Special features:	TÜV tested
Media:	Mortar, concrete, screed
Material:	Steel, Malleable cast iron
Surface:	electro galvanised



Note: Type size 25 and MMIG10-MA have one lever, all other type sizes have 2 levers. Note: Parts must only replaced with parts of the same type sizes!

Identification	for hose ID mm	Type size	Ident dimension	Max. working pressure bar	System
MV TUELLE 25	25	25	35,0	50	22 / 23,5
MV TUELLE-X25	25	X25	41,0	50	22 / 23,5
MV TUELLE 35	35	35	49,5	50	22
MV TUELLE 38	38	35	49,5	50	22
MV TUELLE 42	42	42	53,0	50	22 / 23,5
MV TUELLE 50	50	50	63,0	50	22
MV TUELLE 65	65	65	73,0	25	22 / 23,5

MV AG**Mortar coupling, male part AGR**

Application:	for mortar, concrete, screed supply on pumps, sprayers and plastering machines
Connection 1:	BSP external thread, cylindrical
Connection 2:	Coupling male connection
Special features:	TÜV tested
Media:	Mortar, concrete, screed
Material:	Steel, Malleable cast iron
Surface:	electro galvanised

2

Note: Note: Parts must only replaced with parts of the same type sizes!

Identification	G1	Type size	Ident dimension	Max. working pressure bar	System
MV AG 10/25	G 1" -11	25	35,0	50	22 / 23,5
MV AG 10-X25	G 1" -11	X25	41,0	50	22 / 23,5
MV AG 54/35	G 1,1/4" -11	35	49,5	50	22
MV AG 15/42	G 1,1/2" -11	42	53,0	50	22 / 23,5
MV AG 20/50	G 2" -11	50	63,0	50	22

MV IG**Mortar coupling, male part IGR**

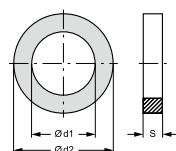
Application:	for mortar, concrete, screed supply on pumps, sprayers and plastering machines
Connection 1:	BSP cylindrical internal threads
Connection 2:	Coupling male connection
Special features:	TÜV tested
Media:	Mortar, concrete, screed
Material:	Steel, Malleable cast iron
Surface:	electro galvanised



Note: Type size 25 and MMIG10-MA have one lever, all other type sizes have 2 levers. Note: Parts must only replaced with parts of the same type sizes!

Identification	G1	Type size	Ident dimension	Max. working pressure bar	System
MV IG 10/25	G 1" -11	25	35,0	50	22 / 23,5
MV IG 10-MA	G 1" -11		37,5	50	May
MV IG 10-X25	G 1" -11	X25	41,0	50	22 / 23,5
MV IG 10/35	G 1" -11	35	49,5	50	22
MV IG 54-X25	G 1.1/4" -11	X25	41,0	50	22 / 23,5
MV IG 54/35	G 1.1/4" -11	35	49,5	50	22
MV IG 54/50	G 1.1/4" -11	50	63,0	50	22
MV IG 15/35	G 1.1/2" -11	35	49,5	50	22
MV IG 15/42	G 1.1/2" -11	42	53,0	50	22 / 23,5
MV IG 15/50	G 1.1/2" -11	50	63,0	50	22
MV IG 20/35	G 2" -11	35	49,5	50	22
MV IG 20/50	G 2" -11	50	63,0	50	22
MV IG 25/50	G 2.1/2" -11	50	63,0	50	22
MV IG 25/65	G 2.1/2" -11	65	73,0	25	22 / 23,5

2

MDR**Seal for mortar coupling****Material:**

Perbungan 55° Shore A

2

Identification	Type size	\varnothing d1 mm	\varnothing d2 mm	S mm
MDR 25	25	24,5	36,0	6,0
MDR -X25	X25	28,5	43,5	6,0
MDR 35	35	36,5	53,5	6,0
MDR 42	42	41,0	55,0	6,5
MDR 50	50	51,0	67,0	6,0
MDR 65	65	61,0	76,0	6,3

Spare part for following products:

MM AG - Mortar coupling, female part AGR

MM IG - Mortar coupling, female part IGR

MM TUELLE - Mortar coupling, female part with hose nozzle

MM V - Mortar coupling, female-male part reduction

BETON-VIC**Swage fitting Victaulic for concrete hose**

Application: for concrete transportation hoses
Connection 1: flange for Victaulic coupling
Material: Steel
Surface: electro galvanised



2

Identification	DN	for hose ID mm
BETON-VIC-2	51	50,0
BETON-VIC-3	76	75,0
BETON-VIC-3.1/4	80	80,0
BETON-VIC-4	100	100,0
BETON-VIC-4.1/2	110	
BETON-VIC-5	127	125,0
BETON-VIC-5.1/2		140,0
BETON-VIC-6	150	150,0

DN = Nominal diameter, nominal width

KML M AL**Kamlock coupling female part, aluminium nozzle****Connection 1:**

Hose connection

Connection 2:

Coupling female connection

Sealing form 2:

BUNA N rubber sealing ring

Material:

Aluminium, Stainless steel 304 lever

2

Identification	DN	Size	Inches	for hose ID mm
KML M DN 20 AL	19	12	3/4"	20
KML M DN 25 AL	25	16	1"	25
KML M DN 32 AL	31	20	1.1/4"	32
KML M DN 38 AL	38	24	1.1/2"	38
KML M DN 51 AL	51	32	2"	51
KML M DN 63 AL	63	40	2.1/2"	63
KML M DN 76 AL	76	48	3"	76
KML M DN 102 AL	100	64	4"	102

Product versions:

KML M VA - Kamlock coupling female part, stainless steel nozzle, Stainless steel

KML S AL**Kamlock coupling male part, aluminium nozzle**

Connection 1: Hose connection
Connection 2: Coupling male connection
Material: Aluminium



2

Identification	DN	Size	Inches	for hose ID mm
KML S DN 20 AL	19	12	3/4"	20
KML S DN 25 AL	25	16	1"	25
KML S DN 32 AL	31	20	1.1/4"	32
KML S DN 38 AL	38	24	1.1/2"	38
KML S DN 51 AL	51	32	2"	51
KML S DN 63 AL	63	40	2.1/2"	63
KML S DN 76 AL	76	48	3"	76
KML S DN 102 AL	100	64	4"	102

Product versions:

KML S VA - Kamlock coupling male part, stainless steel nozzle, Stainless steel

KML M HR AL

Kamlock coupling female part, aluminium HR



Connection 1: BSP external thread, cylindrical
Connection 2: Coupling female connection
Sealing form 2: BUNA N rubber sealing ring
Material: Aluminium, Stainless steel 304 lever

2

Identification	G1
KML M HR 3/4 AL	G 3/4" -14
KML M HR 1 AL	G 1" -11
KML M HR 1.1/4 AL	G 1.1/4" -11
KML M HR 1.1/2 AL	G 1.1/2" -11
KML M HR 2 AL	G 2" -11
KML M HR 2 1/2 AL	G 2.1/2" -11
KML M HR 3 AL	G 3" -11
KML M HR 4 AL	G 4" -11

Product versions:

KML M HR VA - Kamlock coupling female part, stainless steel HR, Stainless steel

KML S HR AL**Kamlock coupling male part, aluminium HR**

Connection 1: BSP external thread, cylindrical
Connection 2: Coupling male connection
Material: Aluminium



2

Identification	G1
KML S HR 3/4 AL	G 3/4"-14
KML S HR 1 AL	G 1"-11
KML S HR 1.1/4 AL	G 1.1/4"-11
KML S HR 1.1/2 AL	G 1.1/2"-11
KML S HR 2 AL	G 2"-11
KML S HR 2.1/2 AL	G 2.1/2"-11
KML S HR 3 AL	G 3"-11
KML S HR 4 AL	G 4"-11

Product versions:

KML S HR VA - Kamlock coupling male part, stainless steel HR, Stainless steel

KML M IR AL

Kamlock coupling female part, aluminium IR



Connection 1: BSP cylindrical internal threads
Connection 2: Coupling female connection
Sealing form 2: BUNA N rubber sealing ring
Material: Aluminium, Stainless steel 304 lever

2

Identification	G1
KML M IR 3/4 AL	G 3/4" -14
KML M IR 1 AL	G 1" -11
KML M IR 1.1/4 AL	G 1.1/4" -11
KML M IR 1.1/2 AL	G 1.1/2" -11
KML M IR 2 AL	G 2" -11
KML M IR 2.1/2 AL	G 2.1/2" -11
KML M IR 3 AL	G 3" -11
KML M IR 4 AL	G 4" -11

Product versions:

KML M IR VA - Kamlock coupling female part, stainless steel IR, Stainless steel

KML S IR AL**Kamlock coupling male part, aluminium IR**

Connection 1: BSP cylindrical internal threads
Connection 2: Coupling male connection
Material: Aluminium



2

Identification	G1
KML S IR 3/4 AL	G 3/4" -14
KML S IR 1 AL	G 1" -11
KML S IR 1.1/4 AL	G 1.1/4" -11
KML S IR 1.1/2 AL	G 1.1/2" -11
KML S IR 2 AL	G 2" -11
KML S IR 2.1/2 AL	G 2.1/2" -11
KML S IR 3 AL	G 3" -11
KML S IR 4 AL	G 4" -11

Product versions:

KML S IR VA - Kamlock coupling male part, stainless steel IR, Stainless steel

KML M SST MK

Locking pin with chain for kamlock female part

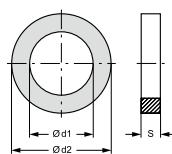


2

Identification	for coupling size
KML M SST MK 1.1/2-2	1.1/2" - 2"

KML M DISA EP**Seal for kamlock female part, EPDM**

Material: EPDM



2

Identification	for coupling size	Ø d1 mm	Ø d2 mm	S mm
KML M DISA 3/4 EP	3/4"	34,93	22,22	5,54
KML M DISA 1 EP	1"	39,69	29,99	6,35
KML M DISA 1.1/4 EP	1,1/4"	49,21	34,53	6,35
KML M DISA 1.1/2 EP	1.1/2"	55,56	41,27	6,35
KML M DISA 2 EP	2"	66,67	50,80	6,35
KML M DISA 2.1/2 EP	2.1/2"	79,37	60,32	6,35
KML M DISA 3 EP	3"	94,45	76,20	6,35
KML M DISA 4 EP	4"	123,82	101,60	6,35

Product versions:

KML M DISA NBR - Seal for kamlock female part, NBR, NBR

KML M DISA SIL - Seal for kamlock female part, silicone, Silicone

KML M DISA V - Seal for kamlock female part, FKM (FPM), FKM SH 90 (Viton)

KML M ZUB AL

Kamlock end cap, aluminium male part



Connection 1:
Material:

Coupling male connection
Aluminium

2

Identification	for coupling size
KML M ZUB 3/4 AL	3/4"
KML M ZUB 1 AL	1"
KML M ZUB 1.1/4 AL	1.1/4"
KML M ZUB 1.1/2 AL	1.1/2"
KML M ZUB 2 AL	2"
KML M ZUB 2.1/2 AL	2.1/2"
KML M ZUB 3 AL	3"
KML M ZUB 4 AL	4"

Product versions:

KML M ZUB VA - Kamlock end cap, stainless steel male part, Stainless steel

KML S ZUB AL**Kamlock end cap, aluminium female part**

Connection 1: Coupling female connection
Sealing form 1: BUNA N rubber sealing ring
Material: Aluminium, Stainless steel 304 lever



2

Identification	for coupling size
KML S ZUB 3/4 AL	3/4"
KML S ZUB 1 AL	1"
KML S ZUB 1.1/4 AL	1.1/4"
KML S ZUB 1.1/2 AL	1.1/2"
KML S ZUB 2 AL	2"
KML S ZUB 2.1/2 AL	2.1/2"
KML S ZUB 3 AL	3"
KML S ZUB 4 AL	4"

Product versions:

KML S ZUB VA - Kamlock end cap, stainless steel female part, Stainless steel

SSKK**Sandblasting coupling**

Application: for sandblasting systems and cabs (fixed / mobile)
Connection 1: Hose connection
Connection 2: Claw coupling
Material: Malleable cast iron
Surface: electro galvanised

2

Identification	DN	b mm	h mm	Cog space mm	Max. working pressure bar
SSKK NW 19	19	63	100	42	12
SSKK NW 25	25	87	93	58	12
SSKK NW 32	32	87	92	58	12
SSKK NW 32 N	32	87	135	58	12
SSKK NW 38	38	87	129	58	12
SSKK NW 40	40	87	150	58	12

SSKK IR**Sandblasting coupling IR**

Application: for sandblasting systems and cabs (fixed / mobile)
Connection 1: BSP cylindrical internal threads
Connection 2: Claw coupling
Material: Malleable cast iron
Surface: electro galvanised



2

Identification	G1	b mm	h mm	Cog space mm	Max. working pressure bar
SSKK NW 32 IR	G 1.1/4" -11	87	55	58	12
SSKK NW 32 IR-N	G 1.1/4" -11	87	62	58	12
SSKK NW 38 IR	G 1.1/2" -11	87	55	58	12
SSKK NW 38 IR-N	G 1.1/2" -11	87	62	58	12
SSKK NW 50 IR	G 2" -11	87	84	58	12

SSKK IM**Sandblasting coupling IGM coarse thread**

Application:	for sandblasting systems and cabs (fixed / mobile)
Connection 1:	metric cylindrical inner thread
Connection 2:	Claw coupling
Material:	Malleable cast iron
Surface:	electro galvanised

2

Identification	DN	G1	b mm	h mm	Cog space mm	Max. working pressure bar
SSKK NW 50 IM	50	Coarse thread 50 mm	87	55	58	12
SSKK NW 50 IM 50-N	50	Coarse thread 50 mm	87	62	58	12

SSKK DISA**Sandblasting sealing ring**

Application: for sandblasting couplings
Material: Perbunan 60° Shore A, black



2

Identification	a mm	h mm	i1 mm
SSKK DISA	48,5	10,5	31
SSKK DISA-N	44,0	27,0	31

PRT M DN**Perrot coupling female part, with hose connection**

Connection 1:	Coupling female connection
Sealing form 1:	O-ring sealed
Connection 2:	Hose connection
Material:	Steel
Surface:	hot galvanised

2

Identification	Working pressure bar	Coupling dimension mm	for hose ID mm
PRT M 50 DN 50	12	50	50
PRT M 70 DN 63	12	70	63
PRT M 70 DN 70	12	70	70
PRT M 70 DN 75	12	70	75
PRT M 89 DN 75	12	89	75
PRT M 89 DN 80	12	89	80
PRT M 89 DN 89	12	89	89
PRT M 108 DN 75	12	108	75
PRT M 108 DN 90	12	108	90
PRT M 108 DN 102	12	108	102
PRT M 108 DN 110	12	108	110
PRT M 108 DN 127	12	108	127
PRT M 108 DN 152	12	108	152
PRT M 133 DN 50	12	133	50
PRT M 133 DN 76	12	133	76
PRT M 133 DN 102	12	133	102
PRT M 133 DN 110	12	133	110
PRT M 133 DN 127	12	133	127
PRT M 133 DN 133	12	133	133
PRT M 133 DN 152	12	133	152
PRT M 159 DN 50	12	159	50
PRT M 159 DN 76	12	159	76
PRT M 159 DN 102	12	159	102
PRT M 159 DN 127	12	159	127
PRT M 159 DN 133	12	159	133
PRT M 159 DN 152	12	159	152
PRT M 159 DN 159	12	159	159
PRT M 216 DN 200	12	216	200

PRT M**Perrot coupling female part, assembled**

Connection 1: Coupling female connection
Sealing form 1: O-ring sealed
Included in scope of supply: fitted with O-ring
Material: Steel
Surface: black



2

Identification	Working pressure bar	Coupling dimension mm
PRT M 50	12	50
PRT M 70	12	70
PRT M 89	12	89
PRT M 108	12	108
PRT M 133	12	133
PRT M 159	12	159
PRT M 216	12	216

PRT M IR**Perrot coupling female part, internal thread**

Connection 1: Coupling female connection
Sealing form 1: O-ring seal
Connection 2: BSP cylindrical internal threads
Material: Steel
Surface: hot galvanised

2

Identification	Working pressure bar	Coupling dimension mm	G1
PRT M 50 IR 2	12	50	G 2"-11

PRT M HR**Perrot coupling female part, external thread**

Connection 1: Coupling female connection
Sealing form 1: O-ring seal
Connection 2: BSP cylindrical external threads
Material: Steel
Surface: hot galvanised



2

Identification	Working pressure bar	Coupling dimension mm	G1
PRT M 50 HR 1.1/2	12	50	G 1.1/2"-11
PRT M 50 HR 2	12	50	G 2"
PRT M 50 HR 2.1/2	12	50	G 2.1/2"-11
PRT M 70 HR 2	12	70	G 2"
PRT M 70 HR 2.1/2	12	70	G 2.1/2"-11
PRT M 70 HR 3	12	70	G 3"-11
PRT M 89 HR 2.1/2	12	89	G 2.1/2"-11
PRT M 89 HR 3	12	89	G 3"-11
PRT M 108 HR 2.1/2	12	108	G 2.1/2"-11
PRT M 108 HR 3	12	108	G 3"-11
PRT M 108 HR 4	12	108	G 4"-11
PRT M 133 HR 2.1/2	12	133	G 2.1/2"-11
PRT M 133 HR 4	12	133	G 4"-11
PRT M 133 HR 5	12	133	G 5"-11
PRT M 159 HR 2.1/2	12	159	G 2.1/2"-11
PRT M 159 HR 4	12	159	G 4"-11
PRT M 159 HR 6	12	159	G 6"-11

PRT S DN**Perrot coupling male part, with hose connection**

Connection 1: Coupling male connection
Material: Steel
Surface: black

2

Identification	Working pressure bar	Coupling dimension mm	for hose ID mm
PRT S 50 DN 50	12	50	50
PRT S 70 DN 63	12	70	63
PRT S 70 DN 70	12	70	70
PRT S 70 DN 75	12	70	75
PRT S 89 DN 75	12	89	75
PRT S 89 DN 80	12	89	80
PRT S 89 DN 89	12	89	89
PRT S 108 DN 75	12	108	75
PRT S 108 DN 90	12	108	90
PRT S 108 DN 102	12	108	102
PRT S 108 DN 152	12	108	152
PRT S 108 DN 110	12	108	110
PRT S 108 DN 127	12	108	127
PRT S 133 DN 50	12	133	50
PRT S 133 DN 76	12	133	76
PRT S 133 DN 102	12	133	102
PRT S 133 DN 110	12	133	110
PRT S 133 DN 127	12	133	127
PRT S 133 DN 133	12	133	133
PRT S 133 DN 152	12	133	152
PRT S 159 DN 50	12	159	50
PRT S 159 DN 76	12	159	76
PRT S 159 DN 102	12	159	102
PRT S 159 DN 127	12	159	127
PRT S 159 DN 133	12	159	133
PRT S 159 DN 152	12	159	152
PRT S 159 DN 159	12	159	159
PRT S 216 DN 200	12	216	200

PRT S**Perrot coupling male part**

Connection 1: Coupling male connection
Material: Steel
Surface: black



2

Identification	Working pressure bar	Coupling dimension mm
PRT S 50	12	50
PRT S 70	12	70
PRT S 89	12	89
PRT S 108	12	108
PRT S 133	12	133
PRT S 159	12	159
PRT S 216	12	216

PRT S IR

Perrot coupling male part, internal thread



Connection 1:

Coupling male connection

Connection 2:

BSP cylindrical internal threads

Material:

Steel

Surface:

hot galvanised

2

Identification	Working pressure bar	Coupling dimension mm	G1
PRT S 50 IR 2	12	50	G 2" -11

PRT S HR**Perrot coupling male part, external thread**

Connection 1: Coupling male connection
Connection 2: BSP cylindrical external threads
Material: Steel
Surface: hot galvanised



2

Identification	Working pressure bar	Coupling dimension mm	G1
PRT S 50 HR 1.1/2	25	50	G 1.1/2"-11
PRT S 50 HR 2	25	50	G 2"-11
PRT S 50 HR 2.1/2	25	50	G 2.1/2"-11
PRT S 70 HR 2	25	70	G 2"-11
PRT S 70 HR 2.1/2	25	70	G 2.1/2"-11
PRT S 70 HR 3	25	70	G 3"-11
PRT S 89 HR 2.1/2	25	89	G 2.1/2"-11
PRT S 89 HR 3	25	89	G 3"-11
PRT S 108 HR 2.1/2	25	108	G 2.1/2"-11
PRT S 108 HR 3	25	108	G 3"-11
PRT S 108 HR 4	25	108	G 4"-11
PRT S 133 HR 2.1/2	25	133	G 2.1/2"-11
PRT S 133 HR 4	25	133	G 4"-11
PRT S 133 HR 5	25	133	G 5"-11
PRT S 159 HR 2.1/2	25	159	G 2.1/2"-11
PRT S 159 HR 4	25	159	G 4"-11
PRT S 159 HR 6	25	159	G 6"-11

PRT RED M VB

Perrot coupling reduction, female part



Connection 1: Coupling female connection
Sealing form 1: O-ring seal
Connection 2: Coupling female connection
Material: Steel
Surface: hot galvanised

2

Identification	Working pressure bar	Coupling dimension mm
PRT RED M VB 108-50	12	50/108
PRT RED M VB 108-133	12	108/133
PRT RED M VB 108-159	12	108/159

PRT RED S M**Perrot coupling reduction for male to female part**

Connection 1: Coupling male connection
Connection 2: Coupling female connection
Material: Steel
Surface: hot galvanised



2

Identification	Working pressure bar	Coupling dimension mm
PRT RED S70-M50	12	70/50
PRT RED S89-M70	12	89/70
PRT RED S108-M50	12	108/50
PRT RED S108-M70	12	108/70
PRT RED S108-M89	12	108/89
PRT RED S133-M89	12	133/89
PRT RED S133-M108	12	133/108
PRT RED S159-M133	12	159/133

PRT RED M S**Perrot coupling female-male part reduction**

Connection 1: Coupling female connection
Sealing form 1: O-ring seal
Connection 2: Coupling male connection
Surface: hot galvanised

2

Identification	Working pressure bar	Coupling dimension mm
PRT RED M70-S50	12	70/50
PRT RED M89-S70	12	89/70
PRT RED M108-S70	12	108/70
PRT RED M108-S89	12	108/89
PRT RED M133-S89	12	133/89
PRT RED M133-S108	12	133/108
PRT RED M159-S108	12	159/108
PRT RED M159-S133	12	159/133
PRT RED M216-S159	12	216/159

PRT M VB**Perrot coupling connector, female part****Connection 1 + 2:** Coupling female connection**Sealing form 1 + 2:** O-ring seal**Material:** Steel**Surface:** hot galvanised

2

Identification	Working pressure bar	Coupling dimension mm
PRT M VB 50	12	50
PRT M VB 70	12	70
PRT M VB 89	12	89
PRT M VB 108	12	108
PRT M VB 133	12	133
PRT M VB 159	12	159

PRT S ZUB

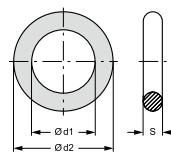
Perrot coupling female part, end plug



Connection 1: Coupling female connection
Sealing form 1: O-ring seal
Material: Steel
Surface: hot galvanised

2

Identification	Coupling dimension mm
PRT S ZUB 50	50
PRT S ZUB 70	70
PRT S ZUB 89	89
PRT S ZUB 108	108
PRT S ZUB 133	133
PRT S ZUB 159	159
PRT S ZUB 216	216

PRT ORING**O-Ring for Perrot coupling**

2

Identification	Coupling dimension mm	Ø d1 mm	Ø d2 mm
PRT ORING 50	50	64	86
PRT ORING 70	70	87	110
PRT ORING 89	89	112	140
PRT ORING 108	108	124	160
PRT ORING 133	133	146	190
PRT ORING 159	159	180	224
PRT ORING 216	216		

PRT M ZUB

Perrot coupling male part, end plug



Connection 1: Coupling male connection
Material: Steel
Surface: hot galvanised

2

Identification	Working pressure bar	Coupling dimension mm
PRT M ZUB 50	12	50
PRT M ZUB 70	12	70
PRT M ZUB 89	12	89
PRT M ZUB 108	12	108
PRT M ZUB 133	12	133
PRT M ZUB 159	12	159
PRT M ZUB 216	12	216

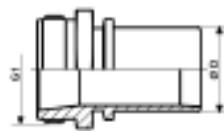
POLY SM H**Screwed socket**

Application:	for POLY H
Connection 1:	Hose connection
Connection 2:	Pipe connection
Properties:	electrically conductive, Surface resistance RO ≤ 104 Ohm, abrasion resistant, impact resistant, easy to assemble, screwed
Colour:	black
Material:	Polyurethane



2

Identification	DN*	L mm	for external pipe Ø mm
POLY SM DN 38 H	38	80	38
POLY SM DN 40 H	40	85	40
POLY SM DN 50 H	50	89	50
POLY SM DN 60 H	60	90	60
POLY SM DN 70 H	70	94	70

TW-TG MG**Tanker fitting, brass**

Application:
Connection 1:
Connection 2:
Design:
Standard:
Material:

Tankers
Hose connection
BSP cylindrical external threads
with safety collar
DIN EN 14 420-5
Brass

2

Identification	DN*	Ø D mm	G1	Max. working pressure bar
TW-TG 12 13 MG	13	13,4	G 1/2" -14	16
TW-TG 34 19 MG	19	19,4	G 3/4" -14	16
TW-TG 10 19 MG	19	19,4	G 1" -11	16
TW-TG 10 25 MG	25	25,4	G 1" -11	16
TW-TG 114 32 MG	31	32,4	G 1.1/4" -11	16
TW-TG 112 35 MG	35	35,0	G 1.1/2" -11	16
TW-TG 112 38 MG	38	38,4	G 1.1/2" -11	16
TW-TG 20 38 MG	38	38,4	G 2" -11	16
TW-TG 20 50 MG	50	50,4	G 2" -11	16
TW-TG 212 63 MG	63	63,4	G 2.1/2" -11	16
TW-TG 30 75 MG	75	75,4	G 3" -11	16
TW-TG 30 80 MG	80	80,4	G 3" -11	16
TW-TG 40 100 MG	100	100,4	G 4" -11	16

DN = Nominal diameter, nominal width

Product versions:

TW-TG VA - Tanker fitting, stainless steel, Stainless steel

TW-T MG**Tanker fitting, brass**

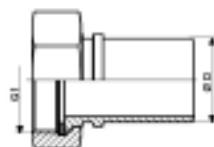
Application:	Tankers
Connection 1:	Hose connection
Connection 2:	BSP cylindrical external threads
Design:	with safety collar
Standard:	DIN EN 14 420-5
Material:	Brass



2

Identification	DN*	Ø D mm	G1	Max. working pressure bar
TW-T 12 13 MG	13	13,4	G 1/2" -14	16
TW-T 34 19 MG	19	19,4	G 3/4" -14	16
TW-T 10 25 MG	25	25,4	G 1" -11	16
TW-T 114 32 MG	31	32,4	G 1.1/4" -11	16
TW-T 112 38 MG	38	38,4	G 1.1/2" -11	16
TW-T 20 50 MG	50	50,4	G 2" -11	16
TW-T 212 63 MG	63	63,4	G 2.1/2" -11	16
TW-T 30 75 MG	75	75,4	G 3" -11	16
TW-T 40 100 MG	100	100,4	G 4" -11	16

DN = Nominal diameter, nominal width

TW-TUEG MG**Tanker fitting, brass**

Application:
Connection 1:
Connection 2:
Sealing form 2:
Design:
Standard:
Included in scope of supply:
Material:

Tankers
Hose connection
BSP nut thread
Flat seal
with safety collar
DIN EN 14 420-5
with PUR flat seal
Brass

2

Identification	DN*	Ø D mm	G1	Max. working pressure bar
TW-TUEG 12 13 MG	13	13,4	G 1 1/2" -14	16
TW-TUEG 34 19 MG	19	19,4	G 3/4" -14	16
TW-TUEG 10 25 MG	25	25,4	G 1" -11	16
TW-TUEG 114 32 MG	32	32,4	G 1 1/4" -11	16
TW-TUEG 112 35 MG	35	35,0	G 1 1/2"	16
TW-TUEG 112 38 MG	38	38,4	G 1 1/2"	16
TW-TUEG 20 38 MG	38	38,4	G 2" -11	16
TW-TUEG 20 50 MG	50	50,4	G 2" -11	16
TW-TUEG 212 63 MG	63	63,4	G 2 1/2" -11	16
TW-TUEG 30 75 MG	75	75,4	G 3" -11	16
TW-TUEG 40 100 MG	100	100,4	G 4" -11	16

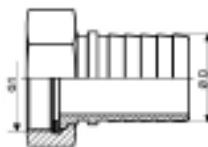
DN = Nominal diameter, nominal width

Product versions:

TW-TUEG VA - Tanker fitting, stainless steel, Stainless steel

TW-TUE MG**Tanker fitting, brass**

Application:	Tankers
Connection 1:	Hose connection
Connection 2:	BSP nut thread
Sealing form 2:	Flat seal
Design:	with safety collar
Standard:	DIN EN 14 420-5
Included in scope of supply:	with PUR flat seal
Material:	Brass



2

Identification	DN*	Ø D mm	G1	Max. working pressure bar
TW-TUE 12 13 MG	13	13,4	G 1/2"-14	16
TW-TUE 34 19 MG	19	19,4	G 3/4"-14	16
TW-TUE 10 25 MG	25	25,4	G 1"-11	16
TW-TUE 114 32 MG	32	32,4	G 1 1/4"-11	16
TW-TUE 112 38 MG	35	38,4	G 1 1/2"	16
TW-TUE 20 50 MG	50	50,4	G 2"-11	16
TW-TUE 212 63 MG	63	60,4	G 2 1/2"-11	16
TW-TUE 30 75 MG	75	75,4	G 3"-11	16
TW-TUE 40 100 MG	100	100,4	G 4"-11	16

DN = Nominal diameter, nominal width

TW-MK IG MS

Tanker fitting, brass



Connection 1:
**Included in scope
of supply:**

Coupling female connection

Sealing ring assembly with sealing ring and threaded sealing
ring, Clamping ring with lever

Material:

Brass

2

Identification	DN*	G1
TW-MK 050 IG MS	50	G 2"
TW-MK 080 IG MS	80	G 3" -11
TW-MK 100 IG MS	100	G 4" -11

DN = Nominal diameter, nominal width

Product versions:

TW-MK IG VA - Tanker fitting, stainless steel, Stainless steel

TW-VK IG MS**Tanker fitting, brass**

Connection 1: BSP cylindrical internal threads
Material: Brass



2

Identification	DN*	G1
TW-VK 050 IG MS	50	G 2" -11
TW-VK 080 IG MS	80	G 3" -11
TW-VK 100 IG MS	100	G 4" -11

DN = Nominal diameter, nominal width

Product versions:

TW-VK IG VA - Tanker fitting, stainless steel, Stainless steel

TW-VB AL

Tanker fitting, aluminium



Application:

Tankers

Connection 1:

Coupling male connection

Design:

Cap fire hose coupling

Material:

Aluminium

2

Identification	DN*
TW-VB 050 AL	50
TW-VB 080 AL	80
TW-VB 100 AL	100

DN = Nominal diameter, nominal width

Product versions:

TW-VB MS - Tanker fitting, brass, Brass

TW-VB VA - Tanker fitting, stainless steel, Stainless steel

TW-MB AL**Blind cap for tanker connection, aluminium**

Connection 1: Coupling female connection
Sealing form 1: Edge sealing ring
Design: Blank coupling cap
Material: Brass, Gasket: NBR



2

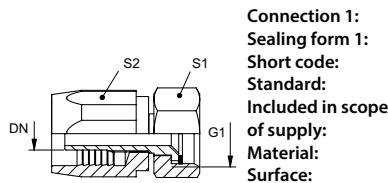
Identification	DN*
TW-MB 050 AL	50
TW-MB 080 AL	80
TW-MB 100 AL	100

DN = Nominal diameter, nominal width

Product versions:

TW-MB MS - Blind cap for tanker connection, brass, Brass

TW-MB VA - Blind cap for tanker connection, stainless steel, Stainless steel

TWA AR**Screw fitting for hose ZSSOW**

Connection 1:
Sealing form 1:
Short code:
Standard:
Included in scope of supply:
Material:
Surface:

BSP nut thread
flat sealing
DKR flat
DIN EN 14424 and VG 95951
Screw nipple + screw mount
Hot pressed brass
bright chromium plated

2

Note: PU seal

Identification	DN*	Size	Inches	G1	S1	S2
TWA 20 AR 25	19	12	3/4"	G 1" -11	36	36

DN = Nominal diameter, nominal width

KS AL**Clamp ring fitting, aluminium**

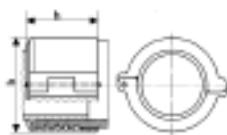
Application:	Integrating clamp ring fittings with hose
Design:	Clamping shells
Included in scope of supply:	Clamping halves, loose, incl. screws and nuts
Material:	Aluminium, forged



2

Identification	for hose	Clamping range (mm)	Max. working pressure bar	DN*	b mm	h mm	Screws
KS 22-24 AL	13 x 5	22 - 24	16		51	50	
KS 30-33 AL	19 x 6	30 - 33	16	20	63	50	(4 x) M 6 x 20
KS 36-39 AL	25 x 6	36 - 39	16	25	69	50	(4 x) M 6 x 20
KS 40-43 AL	25 x 8	40 - 43	16		73	50	
KS 43-46 AL	32 x 6	43 - 46	16	32	76	50	(4 x) M 6 x 20
KS 47-51 AL	38 x 5	47 - 51	16		79	50	
KS 50-53 AL	38 x 6.5	50 - 53	16	40	83	50	(4 x) M 6 x 20
KS 53-56 AL	38 x 8	53 - 56	16		85	50	
KS 60-64 AL	50 x 5.5	60 - 64	16			56	
KS 63-67 AL	50 x 8	63 - 67	16	50	56		(4 x) M 8 x 25
KS 74-77 AL	63 x 6	74 - 77	16		120	74	
KS 78-82 AL	63 x 8	78 - 82	16	65	120	74	(4 x) M 8 x 25
KS 89-93 AL	75 x 8	89 - 93	16	76	132	76	(4 x) M 8 x 25
KS 94-97 AL	75 x 10	94 - 97	16	80	140	76	(4 x) M 8 x 25
KS 111-115 AL	100 x 6.5	111 - 115	16			120	
KS 114-119 AL	100 x 8	114 - 119	16		166	120	
KS 118-122 AL	100 x 10	118 - 122	16		170	120	

DN = Nominal diameter, nominal width

KS FIX AL**Clamping shell for pinning, aluminium****Application:**Integrating clamp ring fittings with
hose
Clamping shells**Design:**

Supplementary

design informa-

tion:

Material:

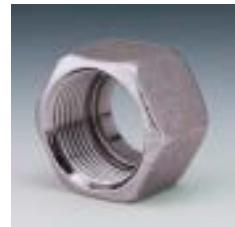
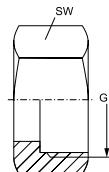
for pinning
Aluminium

2

Identification	for hose	Clamping range (mm)	Max. working pressure bar	b mm	h mm
KS 36-39 FIX AL	25 x 6	36 - 39	16	58	46
KS 43-46 FIX AL	32 x 6	43 - 46	16	66	48
KS 50-53 FIX AL	38 x 6.5	50 - 53	16	73	52
KS 63-67 FIX AL	50 x 8	63 - 67	16	89	56
KS 89-94 FIX AL	75 x 8	89 - 94	16	118	76

SUEM R**Union nut for SI nipple**

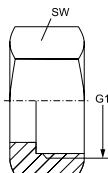
Connection 1: BSP nut thread
Material: Steel
Surface: electro galvanised



2

Identification	DN*	G1	SW mm
SUEM 03 R 04	3	G 1/8" -28	14
SUEM 04 R 06	5	G 1/4" -19	17
SUEM 06 R	6	G 1/4" -19	17
SUEM 08 R 10	8	G 3/8" -19	19
SUEM 10 R 13	10	G 1/2" -14	24

DN = Nominal diameter, nominal width

SUEM L**Union nut for SI nipple****Connection 1:****Material:****Surface:****Series:**

metric nut thread

Steel

electro galvanised

light

2

Identification	DN*	G1	SW mm
SUEM 02 L	3	M 10 x 1	12
SUEM 04 L	5	M 12 x 1.5	14
SUEM 06 L	6	M 14 x 1.5	17
SUEM 08 L	8	M 16 x 1.5	19
SUEM 10 L	10	M 18 x 1.5	22
SUEM 13 L	12	M 22 x 1.5	27
SUEM 16 L	16	M 26 x 1.5	32

DN = Nominal diameter, nominal width

