



Flanges

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Pump flanges (angle 90°)

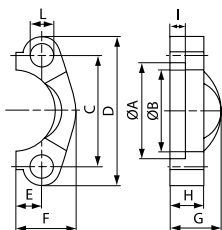
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FH (3000 PSI)**SAE flange half**

Pressure series: 3000 psi
Standard: SAE J518, ISO 6162-1 /-2
Construction: straight
Design: SAE flange half
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: electro galvanised

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 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	-
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"

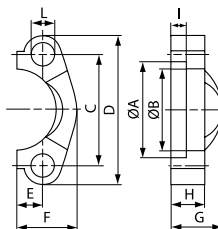
PN = Nominal pressure PB = Max. operating pressure Series: LL = Very light L = Light S = Heavy Ø = External pipe diameter

Product versions:

SFH (3000 PSI / 6000 PSI) VA - SAE flange half, Stainless steel

FH (6000 PSI)**SAE flange half**

Pressure series: 6000 psi
Standard: SAE J518, ISO 6162-1 /-2
Construction: straight
Design: SAE flange half
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: electro galvanised



Note: Recommended screws are listed in the columns M (metr) and M (unc).

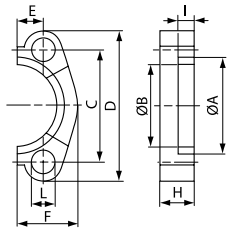
Identification	PB 10.9 bar	Size	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M metr.	M unc
FH 6001	400	1/2"	32,5	24,6	40,5	56	9,1	23,6	22	16	7,2	8,7	M 8 x 30	5/16" x 1.1/4"
FH 6002	400	3/4"	42,1	32,5	50,8	71	11,9	30,0	28	19	8,3	10,7	M 10 x 35	3/8" x 1.1/2"
FH 6003	400	1"	48,4	38,9	57,2	81	13,9	34,8	33	24	9,0	13,0	M 12 x 45	-
FH 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 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 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"
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"
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

HF (3000 PSI)

SAE flange half, flat



- Pressure series: 3000 psi
- Standard: SAE J 518 C, ISO 6162
- Supplementary design information: Flat
- Construction: straight
- Design: SAE flange half
- Mounting: Screw bore hole
- Included in scope of supply: flange only
- Material: Steel C 60
- Surface: electro galvanised

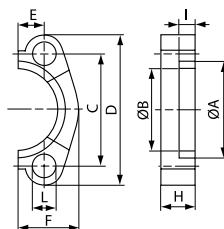
Note: Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A mm	B mm	C mm	D mm	E mm	F mm	H mm	I mm	L mm	M metr.	M unc
HF 3001	350	1/2"	31,0	24,3	38,1	54	8,7	22,8	13	6,2	9	M 8 x 25	5/16" x 1.1/4"
HF 3002	350	3/4"	38,9	32,1	47,6	65	11,1	25,9	14	6,2	11	M 10 x 30	3/8" x 1.1/4"
HF 3003	315	1"	45,2	38,5	52,4	70	13,1	29,2	16	7,5	11	M 10 x 30	3/8" x 1.1/4"
HF 3004	250	1.1/4"	51,6	43,7	58,7	79	15,1	36,6	16	7,5	11	M 10 x 35	
HF 3005	200	1.1/2"	61,1	50,8	69,9	94	17,9	41,1	16	7,5	13	M 12 x 35	1/2" x 1.1/2"
HF 3006	200	2"	72,2	62,7	77,8	102	21,4	48,2	16	9,0	13	M 12 x 35	1/2" x 1.1/2"

PN = Nominal pressure PB = Max. operating pressure

HF (6000 PSI)**SAE flange half, flat**

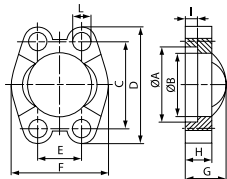
Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Supplementary design information: Flat
Construction: straight
Design: SAE flange half
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: Steel C 60
Surface: electro galvanised



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	H mm	I mm	L mm	M metr.	M unc
HF 6001	400	1/2"	32,5	24,6	40,5	56	9,1	23,6	16	7,2	9	M 8 x 30	5/16" x 1.1/4"
HF 6002	400	3/4"	42,1	32,5	50,8	71	11,9	30,0	20	8,3	11	M 10 x 35	3/8" x 1.1/2"
HF 6003	400	1"	48,4	38,9	57,2	81	13,9	34,8	25	9,0	13	M 12 x 45	7/16" x 1.3/4"
HF 6004	400	1.1/4"	54,8	44,5	66,7	95	15,9	38,6	27	9,8	15	M 14 x 45	1/2" x 1.3/4"
HF 6005	400	1.1/2"	64,3	51,6	79,4	113	18,3	47,5	30	12,1	17	M 16 x 50	5/8" x 2"

PN = Nominal pressure PB = Max. operating pressure

VF (3000 PSI)**SAE full flange**

Pressure series: 3000 psi
Standard: SAE J518, ISO 6162-1 /-2
Construction: straight
Design: SAE full flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: electro galvanised

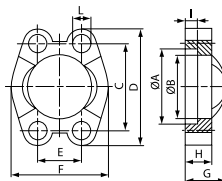
Note: Recommended screws are listed in the columns M (metr) and M (unc).

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
VF 3001	350	1/2"	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	350	3/4"	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	315	1"	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 3004	250	1.1/4"	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	400	1.1/4"	51,6	43,7	58,7	80	30,2	73,0	33	24	7,5	12,5	M 12 x 45	-
VF 3005	200	1.1/2"	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 3006	200	2"	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	400	2"	72,2	62,7	77,8	103	42,9	97,0	43	30	9,0	13,5	M 12 x 50	-
VF 3007	160	2.1/2"	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 3008	160	3"	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	35	3.1/2"	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	35	4"	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	35	5"	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"

PN = Nominal pressure PB = Max. operating pressure

VF (6000 PSI)**SAE full flange**

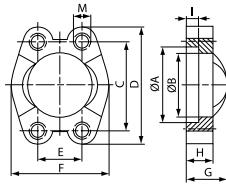
Pressure series: 6000 psi
Standard: SAE J518, ISO 6162-1 /-2
Construction: straight
Design: SAE full flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: electro galvanised



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
VF 6001	400	1/2"	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	400	3/4"	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	400	1"	48,4	38,9	57,2	81	27,8	69,9	33	24	9,0	13,0	M 12 x 45	-
VF 6003-12	400	1"	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	400	1.1/4"	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	400	1.1/2"	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	400	2"	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

VFG (3000 / 6000 PSI)**SAE full flange with thread**

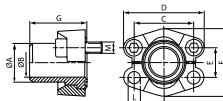
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE full flange
Mounting: Inner thread for metric screws
Material: S355J2G3 (ST52.3)
Surface: electro galvanised

Identification	Pressure series	PB 10.9 bar	Size	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	M metr.
VFG 3001	3000 PSI	350	1/2"	31,0	24,3	38,1	54	17,5	45,6	19	13	6,2	M 8
VFG 3002	3000 PSI	350	3/4"	38,9	32,1	47,6	65	22,3	51,8	22	14	6,2	M 10
VFG 3003	3000 PSI	315	1"	45,2	38,5	52,4	70	26,2	58,4	24	16	7,5	M 10
VFG 3004	3000 PSI	250	1.1/4"	51,6	43,7	58,7	79	30,2	72,6	22	14	7,5	M 10
VFG 3005	3000 PSI	200	1.1/2"	61,1	50,8	69,9	94	35,7	82,2	25	16	7,5	M 12
VFG 3006	3000 PSI	200	2"	72,2	62,7	77,8	102	42,9	96,4	26	16	9,0	M 12
VFG 3007	3000 PSI	160	2.1/2"	84,9	74,9	88,9	114	50,8	108,2	38	19	9,0	M 12
VFG 3008	3000 PSI	160	3"	102,4	90,9	106,4	135	61,9	130,6	41	22	9,0	M 16
VFG 3009	3000 PSI	35	3.1/2"	115,1	102,4	120,7	152	69,9	139,0	28	22	10,7	M 16
VFG 3010	3000 PSI	35	4"	127,8	115,1	130,2	162	77,8	152,0	35	25	10,7	M 16
VFG 3011	3000 PSI	35	5"	153,2	140,5	152,4	184	92,1	180,0	41	28	10,7	M 16
VFG 6001	6000 PSI	400	1/2"	32,5	24,6	40,5	56	18,2	47,2	22	16	7,2	M 8
VFG 6002	6000 PSI	400	3/4"	42,1	32,5	50,8	71	23,8	60,0	28	19	8,3	M 10
VFG 6003	6000 PSI	400	1"	48,4	38,9	57,2	81	27,8	69,9	33	24	9,0	M 12
VFG 6004	6000 PSI	400	1.1/4"	54,8	44,5	66,7	95	31,8	77,2	38	27	9,8	M 14
VFG 6005	6000 PSI	400	1.1/2"	64,3	51,6	79,4	113	36,5	95,0	43	30	12,1	M 16
VFG 6006	6000 PSI	400	2"	80,2	67,6	96,8	133	44,5	113,8	52	37	12,1	M 20

PN = Nominal pressure PB = Max. operating pressure

SFS (3000 PSI)**SAE stub end**

Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE stub end
Included in scope of supply: short stub end only
Material: S355J2G3 (ST52.3)



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	Pipe	A mm	Ø B mm	C mm	D mm	E mm	F mm	G mm	L mm	M metr.	M unc
SFS 3001 S 16	350	1/2"	16 x 2	16,0	12,0	38,1	54	17,5	45,6	41	8,5	M 8 x 30	5/16" x 1.1/4"
SFS 3001-21.3	350	1/2"	21.3 x 4.7	22,0	15,5	38,1	54	17,5	45,6	41	8,5	M 8 x 30	5/16" x 1.1/4"
SFS 3002-25	350	3/4"	25 x 3	27,0	18,9	47,6	65	22,2	51,8	50	10,5	M 10 x 30	3/8" x 1.1/4"
SFS 3002-26.9	350	3/4"	26.9 x 3.9	27,0	18,9	47,6	65	22,2	51,8	50	10,5	M 10 x 30	3/8" x 1.1/4"
SFS 3003-28	315	1"	28 x 3	28,0	22,0	52,4	70	26,2	58,4	50	10,5	M 10 x 35	3/8" x 1.1/4"
SFS 3003-30	315	1"	30 x 4	30,0	22,0	52,4	70	26,2	58,4	50	10,5	M 10 x 35	3/8" x 1.1/4"
SFS 3003-33.7	315	1"	33.7 x 4.5	35,0	24,7	52,4	70	26,2	58,4	50	10,5	M 10 x 35	3/8" x 1.1/4"
SFS 3003-38	315	1"	38 x 5	38,0	28,0	52,4	70	26,2	58,4	50	10,5	M 10 x 35	3/8" x 1.1/4"
SFS 3004-38	250	1.1/4"	38 x 5	38,0	28,0	58,7	79	30,2	72,6	55	*1	*2	7/16" x 1.1/2"
SFS 3004-42.4	250	1.1/4"	42.4 x 6.3	43,0	29,7	58,7	79	30,2	72,6	55	*1	*2	7/16" x 1.1/2"
SFS 3005-38	200	1.1/2"	38 x 4	38,0	30,0	69,9	94	35,7	82,2	57	13,5	M 12 x 35	1/2" x 1.1/2"
SFS 3005-42	200	1.1/2"	42 x 5	42,0	32,0	69,9	94	35,7	82,2	57	13,5	M 12 x 35	1/2" x 1.1/2"
SFS 3005-45	200	1.1/2"	45 x 5	45,0	35,0	69,9	94	35,7	82,2	57	13,5	M 12 x 35	1/2" x 1.1/2"
SFS 3005-48.3	200	1.1/2"	48.3 x 7.1	49,0	34,0	69,9	94	35,7	82,2	57	13,5	M 12 x 35	1/2" x 1.1/2"
SFS 3006-55	200	2"	55 x 5	55,0	45,0	77,8	102	42,9	96,4	57	13,5	M 12 x 35	1/2" x 1.1/2"
SFS 3006-60.3	200	2"	60.3 x 8	60,3	44,0	77,8	102	42,9	96,4	57	13,5	M 12 x 35	1/2" x 1.1/2"
SFS 3007-65	160	2.1/2"	65 x 6	65,0	53,0	88,9	114	50,8	108,2	58	13,5	M 12 x 40	1/2" x 1.3/4"
SFS 3007-70	160	2.1/2"	70 x 7.5	70,0	55,0	88,9	114	50,8	108,2	58	13,5	M 12 x 40	1/2" x 1.3/4"
SFS 3007-76.1	160	2.1/2"	76.1 x 7.1	74,0	62,0	88,9	114	50,8	108,2	58	13,5	M 12 x 40	1/2" x 1.3/4"
SFS 3008-80	138	3"	80 x 6	80,0	68,0	106,4	135	61,9	130,6	60	16,7	M 16 x 45	5/8" x 2"
SFS 3008-88.9	138	3"	88.9 x 8	90,0	73,0	106,4	135	61,9	130,6	60	16,7	M 16 x 45	5/8" x 2"
SFS 3009-100	35	3.1/2"	100 x 6	100,0	88,0	120,7	152	69,9	139,0	60	17,0	M 16 x 45	5/8" x 2"
SFS 3009-88.9	35	3.1/2"	88.9 x 8	90,0	73,0	120,7	152	69,9	139,0	60	17,0	M 16 x 45	5/8" x 2"
SFS 3010-110	35	4"	110 x 6	110,0	98,0	130,2	162	77,8	152,0	60	17,0	M 16 x 50	5/8" x 2"
SFS 3010-114.3	35	4"	114.3 x 8.8	115,0	96,7	130,2	162	77,8	152,0	60	17,0	M 16 x 50	5/8" x 2"
SFS 3011-133	35	5"	133 x 6.5	133,0	120,0	152,4	184	92,1	180,0	60	17,0	M 16 x 50	5/8" x 2"
SFS 3011-139.7	35	5"	139.7 x 10	140,0	120,0	152,4	184	92,1	180,0	60	17,0	M 16 x 50	5/8" x 2"

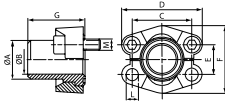
PN = Nominal pressure PB = Max. operating pressure

*1) = Choice of 10.5 or 12.5

Product versions:

SFS M (3000 PSI) - SAE stub end, with 2 flange halves, screw set and O-ring

SFS U (3000 PSI) - SAE stub end, with 2 flange halves, screw set and O-ring

SFS (6000 PSI)**SAE stub end**

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE stub end
Included in scope of supply: short stub end only
Material: S355J2G3 (ST52.3)

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	Pipe	A mm	Ø B mm	C mm	D mm	E mm	F mm	G mm	L mm	M metr.	M unc
SFS 6001-16	400	1/2"	16 x 2	16,0	12,0	40,5	56	18,2	47,2	34	8,5	M 8 x 30	5/16" x 1.1/4"
SFS 6001-21.3	400	1/2"	21.3 x 4.5	21,3	11,9	40,5	56	18,2	47,2	34	8,5	M 8 x 30	5/16" x 1.1/4"
SFS 6002-20	400	3/4"	20 x 2.5	20,0	15,0	50,8	71	23,8	60,0	38	10,5	M 10 x 35	3/8" x 1.1/2"
SFS 6002-25	400	3/4"	25 x 3.5	25,0	18,0	50,8	71	23,8	60,0	38	10,5	M 10 x 35	3/8" x 1.1/2"
SFS 6002-26.9	400	3/4"	26.9 x 5.6	26,9	15,7	50,8	71	23,8	60,0	38	10,5	M 10 x 35	3/8" x 1.1/2"
SFS 6003-30	400	1"	30 x 4	30,0	22,0	57,2	81	27,8	69,6	40	*1	M 12 x 45	7/16" x 1.3/4"
SFS 6003-33.7	400	1"	33.7 x 7.1	35,0	19,0	57,2	81	27,8	69,6	40	*1	M 12 x 45	7/16" x 1.3/4"
SFS 6003-38	400	1"	38 x 5	38,0	28,0	57,2	81	27,8	69,6	40	*1	M 12 x 45	7/16" x 1.3/4"
SFS 6004-38	400	1.1/4"	38 x 5.5	38,0	27,0	66,7	95	31,8	77,2	45	*2	M 14 x 50	1/2" x 1.3/4"
SFS 6004-42.4	400	1.1/4"	42.4 x 6.3	42,4	35,8	66,7	95	31,8	77,2	45	14,5	M 14 x 50	1/2" x 1.3/4"
SFS 6005-45	400	1.1/2"	45 x 6.5	45,0	32,0	79,4	113	36,5	95,0	50	16,7	M 16 x 55	5/8" x 2"
SFS 6005-48.3	400	1.1/2"	48.3 x 8.8	48,3	30,7	79,4	113	36,5	95,0	50	17,0	M 16 x 55	5/8" x 2"
SFS 6006-65	400	2"	65 x 8	65,0	46,0	96,8	133	44,5	113,8	58	21,0	M 20 x 65	3/4" x 2.1/2"

PN = Nominal pressure PB = Max. operating pressure

*1) = Choice of 12.0 or 12.5

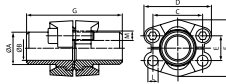
Product versions:

SFS M (6000 PSI) - SAE stub end, with 2 flange halves, screw set and O-ring

SFS U (6000 PSI) - SAE stub end, with 2 flange halves, screw set and O-ring

DSFS (3000 PSI)**SAE stub end flange connector**

Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE stub end flange connector
Mounting: with metric screw set
Included in scope of supply: with 2 flange halves, screw set and O-ring
Material: S355J2G3 (ST52.3)
Surface: electro galvanised

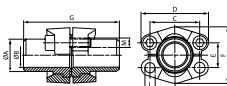


Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	PB 10.9 bar	Size	Pipe	A mm	Ø B mm	C mm	D mm	E mm	F mm	G mm	L mm	M metr.	M unc
DSFS 3001-16	350	1/2"	16 x 2	16,0	12,0	38,1	54	17,5	45,6	82	8,5	M 8 x 30	5/16" x 1.1/4"
DSFS 3001-21.3	350	1/2"	21.3 x 4.7	22,0	15,5	38,1	54	17,5	45,6	82	8,5	M 8 x 30	5/16" x 1.1/4"
DSFS 3002-25	350	3/4"	25 x 3	27,0	18,9	47,6	65	22,2	51,8	100	10,5	M 10 x 30	3/8" x 1.1/4"
DSFS 3002-26.9	350	3/4"	26.9 x 3.9	27,0	18,9	47,6	65	22,2	51,8	100	10,5	M 10 x 30	3/8" x 1.1/4"
DSFS 3003-28	315	1"	28 x 3	28,0	22,0	52,4	70	26,2	58,4	100	10,5	M 10 x 35	3/8" x 1.1/4"
DSFS 3003-30	315	1"	30 x 4	30,0	22,0	52,4	70	26,2	58,4	100	10,5	M 10 x 35	3/8" x 1.1/4"
DSFS 3003-33.7	315	1"	33.7 x 4.5	34,0	24,7	52,4	70	26,2	58,4	100	10,5	M 10 x 35	3/8" x 1.1/4"
DSFS 3003-38	315	1"	38 x 5	38,0	28,0	52,4	70	26,2	58,4	100	10,5	M 10 x 35	3/8" x 1.1/4"
DSFS 3004-38	250	1.1/4"	38 x 5	38,0	28,0	58,7	79	30,2	72,6	110	11,0	*1	7/16" x 1.1/2"
DSFS 3004-42.4	250	1.1/4"	42.4 x 6.3	43,0	29,7	58,7	79	30,2	72,6	110	11,0	*1	7/16" x 1.1/2"
DSFS 3005-38	200	1.1/2"	38 x 4	38,0	30,0	69,9	94	35,7	82,2	114	13,5	M 12 x 35	1/2" x 1.1/2"
DSFS 3005-42	200	1.1/2"	42 x 5	42,0	32,0	69,9	94	35,7	82,2	114	13,5	M 12 x 35	1/2" x 1.1/2"
DSFS 3005-45	200	1.1/2"	45 x 5	45,0	35,0	69,9	94	35,7	82,2	114	13,5	M 12 x 35	1/2" x 1.1/2"
DSFS 3005-48.3	200	1.1/2"	48.3 x 7.1	49,0	34,0	69,9	94	35,7	82,2	114	13,5	M 12 x 35	1/2" x 1.1/2"
DSFS 3006-55	200	2"	55 x 5	55,0	45,0	77,8	102	42,9	96,4	114	13,5	M 12 x 35	1/2" x 1.1/2"
DSFS 3006-60.3	200	2"	60.3 x 8	60,3	44,0	77,8	102	42,9	96,4	114	13,5	M 12 x 35	1/2" x 1.1/2"
DSFS 3007-65	160	2"	65 x 6	65,0	53,0	88,9	114	50,8	108,2	116	13,5	M 12 x 40	1/2" x 1.3/4"
DSFS 3007-70	160	2.1/2"	70 x 7.5	70,0	55,0	88,9	114	50,8	108,2	116	13,5	M 12 x 40	1/2" x 1.3/4"
DSFS 3007-76.1	160	2.1/2"	76.1 x 7.1	74,0	62,0	88,9	114	50,8	108,2	116	13,5	M 12 x 40	1/2" x 1.3/4"
DSFS 3008-80	138	2.1/2"	80 x 6	80,0	68,0	106,4	135	61,9	130,6	120	16,7	M 16 x 45	5/8" x 2"
DSFS 3008-88.9	138	3"	88.9 x 8	90,0	73,0	106,4	135	61,9	130,6	120	16,7	M 16 x 45	5/8" x 2"
DSFS 3009-100	35	3.1/2"	100 x 6	100,0	88,0	120,7	152	69,9	139,0	120	17,0	M 16 x 45	5/8" x 2"
DSFS 3009-88.9	35	3"	88.9 x 8	90,0	73,0	120,7	152	69,9	139,0	120	17,0	M 16 x 45	5/8" x 2"
DSFS 3010-110	35	3.1/2"	110 x 6	110,0	98,0	130,2	162	77,8	152,0	120	17,0	M 16 x 50	5/8" x 2"
DSFS 3010-114.3	35	4"	114.3 x 8.8	115,0	96,7	130,2	162	77,8	152,0	120	17,0	M 16 x 50	5/8" x 2"
DSFS 3011-133	35	5"	133 x 6.5	133,0	120,0	152,4	184	92,1	180,0	120	17,0	M 16 x 50	5/8" x 2"
DSFS 3011-139.7	35	5"	139.7 x 10	140,0	120,0	152,4	184	92,1	180,0	120	17,0	M 16 x 50	5/8" x 2"

PN = Nominal pressure PB = Max. operating pressure

*1) = Choice of M 10 x 30 or M 12 x 35

DSFS (6000 PSI)**SAE stub end flange connector**

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE stub end flange connector
Mounting: with metric screw set
Included in scope of supply: with 2 flange halves, screw set and O-ring
Material: S355J2G3 (ST52.3)
Surface: black oiled

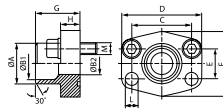
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	PB 10.9 bar	Size	Pipe	A mm	Ø B mm	C mm	D mm	E mm	F mm	G mm	L mm	M metr.	M unc
DSFS 6001-16	400	1/2"	16 x 2	16,0	12,0	40,5	56	18,2	47,2	68	8,5	M 8 x 30	5/16" x 1.1/4"
DSFS 6001-21.3	400	1/2"	21.3 x 4.5	21,3	11,9	40,5	56	18,2	47,2	68	8,5	M 8 x 30	5/16" x 1.1/4"
DSFS 6002-25	400	3/4"	25 x 3.5	25,0	18,0	50,8	71	23,8	60,0	76	10,5	M 10 x 35	3/8" x 1.1/2"
DSFS 6002-26.9	400	3/4"	26.9 x 5.6	26,9	15,7	50,8	71	23,8	60,0	76	10,5	M 10 x 35	3/8" x 1.1/2"
DSFS 6003-30	400	1"	30 x 4	30,0	22,0	57,2	81	27,8	69,6	80	13,5	M 12 x 45	7/16" x 1.3/4"
DSFS 6003-33.7	400	1"	33.7 x 7.1	34,0	19,0	57,2	81	27,8	69,6	80	13,5	M 12 x 45	7/16" x 1.3/4"
DSFS 6003-38	400	1"	38 x 5	38,0	28,0	57,2	81	27,8	69,6	80	13,5	M 12 x 45	7/16" x 1.3/4"
DSFS 6004-30	400	1.1/4"	30 x 4	30,0	22,0	66,7	95	31,8	77,2	90	14,5	M 14 x 50	1/2" x 1.3/4"
DSFS 6004-38	400	1.1/4"	38 x 5.5	38,0	27,0	66,7	95	31,8	77,2	90	14,5	M 14 x 50	1/2" x 1.3/4"
DSFS 6004-42.4	400	1.1/4"	42.4 x 6.3	42,4	29,8	66,7	95	31,8	77,2	90	14,5	M 14 x 50	1/2" x 1.3/4"
DSFS 6005-45	400	1.1/2"	45 x 6.5	45,0	32,0	79,4	113	36,5	95,0	100	16,7	M 16 x 55	5/8" x 2"
DSFS 6005-48.3	400	1.1/2"	48.3 x 8.8	50,0	30,7	79,4	113	36,5	95,0	100	16,7	M 16 x 55	5/8" x 2"
DSFS 6006-60.3	400	2"	60.3 x 13.4	60,3	33,7	96,8	133	44,5	113,8	116	21,0	M 20 x 65	3/4" x 2.1/2"
DSFS 6006-65	400	2"	65 x 8	65,0	46,0	96,8	133	44,5	113,8	116	21,0	M 20 x 65	3/4" x 2.1/2"

PN = Nominal pressure PB = Max. operating pressure

AFS SRE (3000 PSI)**SAE stub end**

Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE stub end
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	Pipe	A mm	B1 mm	B2 mm	G mm	C mm	E mm	H mm	L mm	M metr.	M unc
AFS 80 SRE 20	350	1/2"	20 x 3	20	14,0	14	35,0	38,1	17,5	16,0	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 80 SRE 22	350	1/2"	22 x 3	22	16,0	13	35,0	38,1	17,5	16,0	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 100 SRE 25	350	3/4"	25 x 3	25	19,0	19	36,0	47,6	22,2	18,0	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 100 SRE 28	350	3/4"	28 x 3	28	21,5	19	36,0	47,6	22,2	18,0	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 102 SRE 30	315	1"	30 x 4	30	22,0	22	38,0	52,4	26,2	18,0	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 102 SRE 35	315	1"	35 x 4	35	27,0	25	38,0	52,4	26,2	18,0	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 104 SRE 38	250	1.1/4"	38 x 4	38	30,0	30	41,0	58,7	30,2	21,0	11,5	M 10 x 40	7/16" x 1.1/2"
AFS 104 SRE 42	250	1.1/4"	42 x 3	43	36,0	31	41,0	58,7	30,2	21,0	11,5	M 10 x 40	7/16" x 1.1/2"
AFS 106 SRE 38	200	1.1/2"	38 x 4	38	30,0	30	44,5	69,9	35,7	24,5	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 106 SRE 42	200	1.1/2"	42 x 3	42	36,0	36	44,5	69,9	35,7	24,5	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 106 SRE 48.3	200	1.1/2"	48.3 x 4.5	49	38,0	38	44,5	69,9	35,7	24,5	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 108 SRE 60	200	2"	60.3 x 5.6	61	49,0	49	45,0	77,8	42,9	25,0	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 110 SRE 76	160	2.1/2"	76.1 x 7.1	77	62,0	62	50,0	88,9	50,8	25,0	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 112 SRE 76	160	3"	76.1 x 7.1	77	62,0	62	51,0	106,4	61,9	26,0	17,5	M 16 x 50	5/8" x 2"

PN = Nominal pressure PB = Max. operating pressure

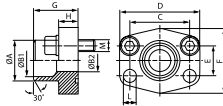
Product versions:

AFS SRE M (3000 / 6000 PSI) - SAE stub end, with metric screw set and O-ring

AFS SRE U (3000 / 6000 PSI) - SAE stub end, with UNC screw set and O-ring

AFS SRE (6000 PSI)

SAE stub end



Pressure series:	6000 psi
Standard:	SAE J 518 C, ISO 6162
Construction:	straight
Design:	SAE stub end
Mounting:	Screw bore hole
Included in scope of supply:	flange only
Material:	S355J2G3 (ST52.3)
Surface:	black oiled

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	Pipe	A mm	B1 mm	B2 mm	G mm	C mm	E mm	H mm	L mm	M metr.	M unc
AFS 401 SRE 20	400	1/2"	20 x 3	20	14,0	14	34,0	40,5	18,2	16,0	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 402 SRE 20	400	3/4"	20 x 3	20	14,0	14	35,0	50,8	23,8	21,0	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 402 SRE 25	400	3/4"	25 x 4	25	17,0	17	35,0	50,8	23,8	21,0	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 403 SRE 25	400	1"	25 x 4	25	17,0	17	42,0	57,2	27,8	25,0	13,0	M 12 x 45	7/16" x 1.1/2"
AFS 403 SRE 30	400	1"	30 x 4	30	22,0	22	42,0	57,2	27,8	25,0	13,0	M 12 x 45	7/16" x 1.1/2"
AFS 404 SRE 30	400	1.1/4"	30 x 4	30	22,0	22	44,0	66,7	31,8	25,0	15,0	M 14 x 50	1/2" x 1.3/4"
AFS 404 SRE 38	400	1.1/4"	38 x 6	38	26,0	26	44,0	66,7	31,8	25,0	15,0	M 14 x 50	1/2" x 1.3/4"
AFS 405 SRE 38	400	1.1/2"	38 x 6	38	26,0	26	56,0	49,4	36,5	28,0	17,0	M 16 x 50	5/8" x 2"
AFS 405 SRE 48	400	1.1/2"	48.3 x 8	49	32,0	32	56,0	79,4	36,5	28,0	17,0	M 16 x 50	5/8" x 2"
AFS 405 SRE 60	400	1.1/2"	60.3 x 10	61	40,0	40	56,0	79,4	36,5	27,0	17,0	M 16 x 50	5/8" x 2"
AFS 406 SRE 60	400	2"	60.3 x 10	61	40,0	40	65,0	96,8	44,5	37,0	21,0	M 20 x 70	3/4" x 2.1/2"
AFS 406 SRE 76	400	2"	76.1 x 12.5	76	50,0	48	80,0	96,8	44,5	33,0	21,0	M 20 x 65	3/4" x 2.1/2"

PN = Nominal pressure PB = Max. operating pressure

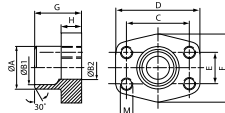
Product versions:

AFS SRE M (3000 / 6000 PSI) - SAE stub end, with metric screw set and O-ring

AFS SRE U (3000 / 6000 PSI) - SAE stub end, with UNC screw set and O-ring

GFS SRE (3000 / 6000 PSI)**SAE welded on counter flange**

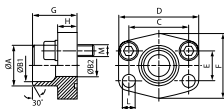
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE welded on counter flange
Mounting: Inner thread for metric screws
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	PB 10.9 bar	Size	Pipe	A mm	B1 mm	B2 mm	G mm	C mm	D mm	E mm	F mm	H mm	M metr.
GFS 80 SRE 20	350	1/2"	20 x 3	20	14,0	14	35,0	38,1	54	17,5	46	16,0	M 8
GFS 80 SRE 22	350	1/2"	22 x 3	22	16,0	13	35,0	38,1	54	17,5	46	16,0	M 8
GFS 100 SRE 25	350	3/4"	25 x 3	25	19,0	19	36,0	47,6	65	22,2	50	18,0	M 10
GFS 100 SRE 28	350	3/4"	28 x 3	28	21,5	19	36,0	47,6	65	22,2	50	18,0	M 10
GFS 102 SRE 30	315	1"	30 x 4	30	22,0	22	38,0	52,4	70	26,2	55	18,0	M 10
GFS 102 SRE 35	315	1"	35 x 4	35	27,0	25	38,0	52,4	70	26,2	55	18,0	M 10
GFS 104 SRE 38	250	1.1/4"	38 x 4	38	30,0	30	41,0	58,7	79	30,2	68	21,0	M 10
GFS 104 SRE 42	250	1.1/4"	42 x 3	43	36,0	31	41,0	58,7	79	30,2	68	21,0	M 10
GFS 106 SRE 38	200	1.1/2"	38 x 4	38	30,0	30	44,5	69,9	93	35,7	78	24,5	M 12
GFS 106 SRE 42	200	1.1/2"	42 x 3	42	36,0	36	44,5	69,9	93	35,7	78	24,5	M 12
GFS 106 SRE 48	200	1.1/2"	48.3 x 4.5	49	38,0	38	44,5	69,9	93	35,7	78	24,5	M 12
GFS 108 SRE 60	200	2"	60.3 x 5.6	61	49,0	49	45,0	77,8	102	42,9	90	25,0	M 12
GFS 110 SRE 76	160	2.1/2"	76.1 x 7.1	77	62,0	62	50,0	88,9	114	50,8	105	25,0	M 12
GFS 112 SRE 76	138	3"	76.1 x 7.1	77	62,0	62	51,0	106,4	134	61,9	125	26,0	M 16
GFS 401 SRE 20	400	1/2"	20 x 3	20	14,0	14	34,0	40,5	54	18,2	46	16,0	M 8
GFS 402 SRE 20	400	3/4"	20 x 3	20	14,0	14	35,0	50,8	71	23,8	55	21,0	M 10
GFS 402 SRE 25	400	3/4"	25 x 4	25	17,0	17	35,0	50,8	71	23,8	55	21,0	M 10
GFS 403 SRE 25	400	1"	25 x 4	25	17,0	17	42,0	57,2	81	27,8	65	25,0	M 12
GFS 403 SRE 30	400	1"	30 x 4	30	22,0	22	42,0	57,2	81	27,8	65	25,0	M 12
GFS 404 SRE 30	400	1.1/4"	30 x 4	30	22,0	22	44,0	66,7	95	31,8	78	25,0	M 14
GFS 404 SRE 38	400	1.1/4"	38 x 6	38	26,0	26	44,0	66,7	95	31,8	78	25,0	M 14
GFS 405 SRE 38	400	1.1/2"	38 x 6	38	26,0	26	56,0	79,4	112	36,5	94	28,0	M 16
GFS 405 SRE 48	400	1.1/2"	48.3 x 8	49	32,0	32	56,0	79,4	112	36,5	94	28,0	M 16
GFS 405 SRE 60	400	1.1/2"	60.3 x 10	61	40,0	40	56,0	79,4	112	36,5	94	28,0	M 16
GFS 406 SRE 60	400	2"	60.3 x 10	61	40,0	40	65,0	96,8	134	44,5	114	33,0	M 20
GFS 406 SRE 76	400	2"	76.1 x 12.5	76	48,0	48	80,0	96,8	134	44,5	114	33,0	M 20

PN = Nominal pressure PB = Max. operating pressure

AFS STRE (3000 PSI)**SAE stub end**

Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Supplementary design information: ND 40
Construction: straight
Design: SAE stub end
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	Pipe	A mm	B1 mm	B2 mm	G mm	C mm	E mm	H mm	L mm	M metr.	M unc
AFS 80 STRE 21.3	350	1/2"	21.3 x 2.6	22	16,0	13	35,0	38,1	17,5	16,0	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 100 STRE 26.9	350	3/4"	26.9 x 2.6	28	21,5	19	36,0	47,6	50,0	18,0	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 102 STRE 33.7	315	1"	33.7 x 3.2	35	27,0	25	38,0	52,4	26,2	18,0	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 104 STRE 42.2	250	1.1/4"	42.4 x 3.2	43	36,0	31	41,0	58,7	30,2	21,0	11,5	M 10 x 40	7/16" x 1.1/2"
AFS 106 STRE 48.3	200	1.1/2"	48.3 x 3.2	49	42,0	38	44,5	69,9	35,7	24,5	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 108 STRE 48.3	200	2"	48.3 x 3.2	49	42,0	42	45,0	77,8	42,9	25,0	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 108 STRE 60.3	200	2"	60.3 x 3.6	61	53,0	49	45,0	77,8	42,9	25,0	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 110 STRE 60.3	160	2.1/2"	60.3 x 3.6	61	53,0	53	50,0	88,9	50,8	25,0	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 110 STRE 76.1	160	2.1/2"	76.1 x 3.6	77	70,0	62	50,0	88,9	50,8	25,0	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 112 STRE 88.9	138	3"	88.9 x 3.6	90	82,0	74	51,0	106,4	61,9	26,0	17,5	M 16 x 50	5/8" x 2"
AFS 114 STRE 76.1	35	3.1/2"	76.1 x 3.6	77	70,0	70	48,0	120,7	69,9	26,0	17,5	M 16 x 50	5/8" x 2"
AFS 114 STRE 88.9	35	3.1/2"	88.9 x 3.6	90	82,0	82	48,0	120,7	69,9	26,0	17,5	M 16 x 50	5/8" x 2"
AFS 116 STRE 114.3	35	4"	114 x 3.6	115	107,0	102	48,0	130,2	77,8	26,0	17,5	M 16 x 50	5/8" x 2"
AFS 116 STRE 88.9	35	4"	88.9 x 3.6	90	82,0	82	48,0	130,2	77,8	26,0	17,5	M 16 x 50	5/8" x 2"
AFS 118 STRE 139.7 *	35	5"	139.7 x 4	131	120,0	131	28,0	152,4	92,1	28,0	17,5	M 16 x 55	5/8" x 2"

PN = Nominal pressure PB = Max. operating pressure *) AFS 118 STRE 139.7: Design as socket weld flat flange.

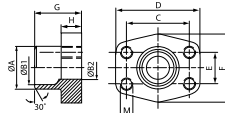
Product versions:

AFS STRE M (3000 PSI) - SAE stub end, with metric screw set and O-ring

AFS STRE U (3000 PSI) - SAE stub end, with UNC screw set and O-ring

GFS STRE (3000 PSI)**SAE welded on counter flange**

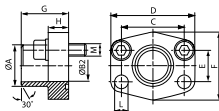
Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Supplementary design information: ND 40
Construction: straight
Design: SAE welded on counter flange
Mounting: Inner thread for metric screws
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	PB 10.9 bar	Size	Pipe	A mm	B1 mm	B2 mm	G mm	C mm	D mm	E mm	F mm	H mm	M metr.
GFS 80 STRE 21.3	350	1/2"	21.3 x 2.6	22,0	16,0	13	35,0	38,1	54	17,5	46	16,0	M 8
GFS 100 STRE 26.9	350	3/4"	26.9 x 2.6	28,0	21,5	19	35,0	47,6	65	22,2	50	18,0	M 10
GFS 102 STRE 33.7	315	1"	33.7 x 3.2	35,0	27,0	25	38,0	52,4	70	26,2	55	18,0	M 10
GFS 104 STRE 42.4	250	1.1/4"	42.4 x 3.2	43,0	36,0	31	41,0	58,7	79	30,2	68	21,0	M 10
GFS 106 STRE 48.3	200	1.1/2"	48.3 x 3.2	49,0	42,0	38	44,5	69,9	93	35,7	78	24,5	M 12
GFS 108 STRE 48.3	200	2"	48.3 x 3.2	49,0	42,0	42	45,0	77,8	102	42,9	90	25,0	M 12
GFS 108 STRE 60.3	200	2"	60.3 x 3.6	61,0	53,0	49	45,0	77,8	102	42,9	90	25,0	M 12
GFS 110 STRE 60.3	160	2.1/2"	60.3 x 3.6	61,0	53,0	53	50,0	88,9	114	50,8	105	25,0	M 12
GFS 110 STRE 76.1	160	2.1/2"	76.1 x 3.6	77,0	70,0	62	50,0	88,9	114	50,8	105	25,0	M 12
GFS 112 STRE 88.9	138	3"	88.9 x 3.6	90,0	82,0	74	51,0	106,4	134	61,9	124	26,0	M 16
GFS 114 STRE 76.1	35	3.1/2"	76.1 x 3.6	77,0	70,0	70	48,0	120,7	152	69,9	136	26,0	M 16
GFS 114 STRE 88.9	35	3.1/2"	88.9 x 3.6	90,0	82,0	82	48,0	120,7	152	69,9	136	26,0	M 16
GFS 116 STRE 114	35	4"	114.3 x 3.6	115,0	107,0	102	48,0	130,2	162	77,8	146	26,0	M 16
GFS 116 STRE 88.9	35	4"	88.9 x 3.6	90,0	82,0	82	48,0	130,2	162	77,8	146	26,0	M 16
GFS 118 STRE 139	35	5"	139.7 x 4	140,2	131,0	120	50,0	152,4	184	92,1	180	28,0	M 16

PN = Nominal pressure PB = Max. operating pressure

AFS ST (3000 PSI)**SAE welded on flange - imperial**

Pressure series:	3000 psi
Standard:	SAE J 518 C, ISO 6162
Construction:	straight
Design:	SAE welded on flange - imperial
Mounting:	Screw bore hole
Included in scope of supply:	flange only
Material:	S355J2G3 (ST52.3)
Surface:	black oiled

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A mm	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M metr.	M unc
AFS 80 ST	350	1/2"	21,6	13	38,1	54	17,5	46	36	16	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 80 ST 038	350	1/2"	17,5	13	38,1	54	17,5	46	36	16	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 100 ST	350	3/4"	28,0	19	47,6	65	22,2	50	36	18	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 102 ST	315	1"	34,0	25	52,4	70	26,2	55	38	18	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 104 ST	250	1.1/4"	42,8	32	58,7	79	30,2	68	41	21	11,5	M 10 x 40	7/16" x 1.1/2"
AFS 106 ST	200	1.1/2"	48,6	38	69,9	93	35,7	78	44	25	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 108 ST	200	2"	61,0	51	77,8	102	42,9	90	45	25	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 110 ST	160	2.1/2"	77,0	63	88,9	114	50,8	105	50	25	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 112 ST	138	3"	92,0	73	106,4	134	61,9	124	50	27	17,5	M 16 x 50	5/8" x 2"
AFS 114 ST	35	3.1/2"	103,0	89	120,7	152	69,9	136	48	27	17,5	M 16 x 50	5/8" x 2"
AFS 116 ST	35	4"	115,1	99	130,2	162	77,8	146	48	27	17,5	M 16 x 50	5/8" x 2"

PN = Nominal pressure PB = Max. operating pressure

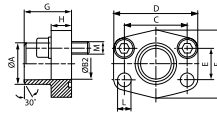
Product versions:

AFS ST M (3000 / 6000 PSI) - SAE welded on flange - imperial, with metric screw set and O-ring

AFS ST U (3000 / 6000 PSI) - SAE welded on flange - imperial, with UNC screw set and O-ring

AFS ST (6000 PSI)

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE welded on flange - imperial
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

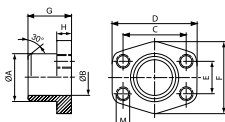
Identification	PB 10.9 bar	Size	A mm	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M metr.	M unc
AFS 401 ST 012	400	1/2"	21,5	13	40,5	54	18,2	46	36	16	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 401 ST 038	400	1/2"	17,5	13	40,5	54	18,2	46	36	16	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 402 ST	400	3/4"	28,0	19	50,8	71	23,8	55	35	21	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 403 ST	400	1"	34,0	25	57,2	79	27,8	68	41	21	13,0	M 12 x 45	7/16" x 1.3/4"
AFS 404 ST	375	1.1/4"	42,8	32	66,7	93	31,8	78	44	25	15,0	M 14 x 45	1/2" x 1.3/4"
AFS 405 ST	250	1.1/2"	48,6	38	79,4	112	36,5	94	55	30	17,0	M 16 x 50	5/8" x 2"
AFS 406 ST	250	2"	61,0	51	96,8	134	44,5	114	65	37	21,0	M 20 x 65	3/4" x 2.1/2"

PN = Nominal pressure PB = Max. operating pressure

Product versions:

AFS ST M (3000 / 6000 PSI) - SAE welded on flange - imperial, with metric screw set and O-ring

AFS ST U (3000 / 6000 PSI) - SAE welded on flange - imperial, with UNC screw set and O-ring

GFS ST M (3000 / 6000 PSI)**SAE welded on counter flange**

Standard:
Supplementary design information:

SAE J 518 C, ISO 6162

Construction:

for imperial pipes

Design:

straight

Mounting:

SAE welded on counter flange

Material:

Inner thread for metric screws
S355J2G3 (ST52.3)

Surface:

black oiled

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure series	PB 10.9 bar	Size	A mm	ØB mm	C mm	D mm	E mm	F mm	G mm	H mm	M metr.
GFS 80 ST M	3000 PSI	350	1/2"	21,5	13	38,1	54	17,5	46	36	16	M 8
GFS 80 ST 038 M	3000 PSI	350	1/2"	17,5	13	38,1	54	17,5	46	36	16	M 8
GFS 100 ST M	3000 PSI	350	3/4"	28,0	19	47,6	65	22,2	50	36	18	M 10
GFS 102 ST M	3000 PSI	315	1"	35,0	25	52,4	70	26,2	55	38	18	M 10
GFS 104 ST M	3000 PSI	250	1.1/4"	42,8	32	58,7	79	30,2	68	41	21	M 10
GFS 106 ST M	3000 PSI	200	1.1/2"	48,6	38	69,9	93	35,7	78	44	25	M 12
GFS 108 ST M	3000 PSI	200	2"	61,0	51	77,8	102	42,9	90	45	25	M 12
GFS 110 ST M	3000 PSI	160	2.1/2"	77,0	63	88,9	114	50,8	105	50	25	M 12
GFS 112 ST M	3000 PSI	138	3"	92,0	73	106,4	134	61,9	124	50	27	M 16
GFS 114 ST M	3000 PSI	35	3.1/2"	103,0	89	120,7	152	69,9	136	48	27	M 16
GFS 116 ST M	3000 PSI	35	4"	115,1	99	130,2	162	77,8	146	48	27	M 16
GFS 401 ST 012 M	6000 PSI	400	1/2"	21,5	13	40,5	54	18,2	46	36	16	M 8
GFS 401 ST 038 M	6000 PSI	400	1/2"	17,5	13	40,5	54	18,2	46	36	16	M 8
GFS 402 ST M	6000 PSI	400	3/4"	28,0	19	50,8	71	23,8	55	35	21	M 10
GFS 403 ST M	6000 PSI	400	1"	35,0	25	57,2	79	27,8	68	41	21	M 12
GFS 404 ST M	6000 PSI	375	1.1/4"	42,8	32	66,7	93	31,8	78	44	25	M 14
GFS 405 ST M	6000 PSI	250	1.1/2"	48,6	38	79,4	112	36,5	94	55	30	M 16
GFS 406 ST M	6000 PSI	250	2"	61,0	51	96,8	134	44,5	114	65	37	M 20

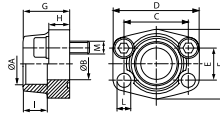
PN = Nominal pressure PB = Max. operating pressure

Product versions:

GFS ST U (3000 / 6000 PSI) - SAE welded on counter flange,

AFS S (3000 PSI)**SAE socket weld flange**

Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE socket weld flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

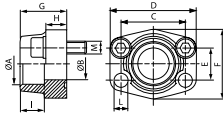
Identification	PB 10.9 bar	Size	A mm	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M metr.	M unc
AFS 80 S	350	1/2"	21,6	13	38,1	54	17,5	46	36	16	19	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 80 S 3/8	350	1/2"	17,5	13	38,1	54	17,5	46	36	16	19	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 80 S A20	350	1/2"	20,3	13	38,1	54	17,5	46	36	16	19	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 100 S	350	3/4"	27,2	19	47,6	65	22,2	50	36	18	19	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 100 S A25	350	3/4"	25,3	19	47,6	65	22,2	50	36	18	19	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 102 S	315	1"	34,0	25	52,4	70	26,2	55	38	18	19	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 102 S A30	315	1"	30,3	25	52,4	70	26,2	55	38	18	19	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 104 S	250	1.1/4"	42,8	32	58,7	79	30,2	68	41	21	22	11,5	M 10 x 40	7/16" x 1.1/2"
AFS 104 S A38	250	1.1/4"	38,3	32	58,7	79	30,2	68	41	21	22	11,5	M 10 x 40	7/16" x 1.1/2"
AFS 106 S	200	1.1/2"	48,6	38	69,9	93	35,7	78	45	25	24	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 106 S A50	200	1.1/2"	50,5	38	69,9	93	35,7	78	45	25	24	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 108 S	200	2"	61,0	51	77,8	102	42,9	90	45	25	26	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 110 S	160	2.1/2"	76,6	63	88,9	114	50,8	105	50	25	30	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 112 S	138	3"	90,5	73	106,4	134	61,9	124	50	27	34	17,5	M 16 x 50	5/8" x 2"
AFS 114 S	35	3.1/2"	103,0	89	120,7	152	69,9	136	48	27	34	17,5	M 16 x 50	5/8" x 2"
AFS 116 S	35	4"	115,1	99	130,2	162	77,8	146	48	27	34	17,5	M 16 x 50	5/8" x 2"

PN = Nominal pressure PB = Max. operating pressure

Product versions:

AFS S M (3000 / 6000 PSI) - SAE socket weld flange, with metric screw set and O-ring

AFS S U (3000 / 6000 PSI) - SAE socket weld flange, with UNC screw set and O-ring

AFS S (6000 PSI)**SAE socket weld flange**

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE socket weld flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A mm	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M metr.	M unc
AFS 401 S	400	1/2"	21,6	13	40,5	54	18,2	46	36	16	19	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 401 S 3/8	400	1/2"	17,5	13	40,5	54	18,2	46	36	16	19	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 401 S A20	400	1/2"	20,3	13	40,5	54	18,2	46	36	16	19	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 402 S	400	3/4"	27,2	19	50,8	71	23,8	55	35	21	22	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 402 S A25	400	3/4"	25,3	19	50,8	71	23,8	55	35	21	22	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 403 S	400	1"	34,0	25	57,2	81	27,8	65	42	25	22	13,0	M 12 x 45	7/16" x 1.3/4"
AFS 403 S A30	400	1"	30,3	25	57,2	81	27,8	65	42	25	22	13,0	M 12 x 45	7/16" x 1.3/4"
AFS 404 S	400	1.1/4"	42,8	32	66,7	95	31,8	78	45	27	25	*1	M 14 x 45	1/2" x 1.3/4"
AFS 404 S A38	400	1.1/4"	38,3	32	66,7	95	31,8	78	45	27	25	*1	M 14 x 45	1/2" x 1.3/4"
AFS 405 S	400	1.1/2"	48,6	38	79,4	112	36,5	94	50	30	28	17,5	M 16 x 50	5/8" x 2"
AFS 405 S A50	400	1.1/2"	50,5	38	79,4	112	36,5	94	50	30	28	17,5	M 16 x 50	5/8" x 2"
AFS 406 S	400	2"	61,0	51	96,8	134	44,5	114	65	37	24	21,0	M 20 x 65	3/4" x 2.1/2"

PN = Nominal pressure PB = Max. operating pressure

*1) = 15.0 for metric screws; 13.5 for UNC screws

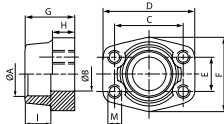
Product versions:

AFS S M (3000 / 6000 PSI) - SAE socket weld flange, with metric screw set and O-ring

AFS S U (3000 / 6000 PSI) - SAE socket weld flange, with UNC screw set and O-ring

GFS S M (3000 / 6000 PSI)**SAE socket weld counter flange**

Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE socket weld counter flange
Mounting: Inner thread for metric screws
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



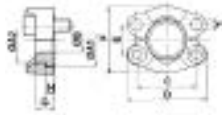
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure series	PB 10.9 bar	Size	A mm	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	M metr.
GFS 80 S	3000 PSI	350	1/2"	21,6	13	38,1	54	17,5	46	36	16	19	M 8
GFS 80 S 3/8	3000 PSI	350	1/2"	17,5	13	38,1	54	17,5	46	36	16	19	M 8
GFS 80 S A20	3000 PSI	350	1/2"	20,3	13	38,1	54	17,5	46	36	16	19	M 8
GFS 100 S	3000 PSI	350	3/4"	27,2	19	47,6	65	22,2	50	36	18	19	M 10
GFS 100 S A25	3000 PSI	350	3/4"	25,3	19	47,6	65	22,2	50	36	18	19	M 10
GFS 102 S	3000 PSI	315	1"	35,0	25	52,4	70	26,2	55	38	18	19	M 10
GFS 102 S A30	3000 PSI	315	1"	30,3	25	52,4	70	26,2	55	38	18	19	M 10
GFS 104 S	3000 PSI	250	1.1/4"	42,8	32	58,7	79	30,2	68	41	21	22	M 10
GFS 104 S A38	3000 PSI	250	1.1/4"	38,3	32	58,7	79	30,2	68	41	21	22	M 10
GFS 106 S	3000 PSI	200	1.1/2"	48,6	38	69,9	93	35,7	78	45	25	24	M 12
GFS 106 S A50	3000 PSI	200	1.1/2"	50,5	38	69,9	93	35,7	78	45	25	24	M 12
GFS 108 S	3000 PSI	200	2"	61,0	51	77,8	102	42,9	90	45	25	26	M 12
GFS 110 S	3000 PSI	160	2.1/2"	76,6	63	88,9	114	50,8	105	50	25	30	M 12
GFS 112 S	3000 PSI	138	3"	90,5	73	106,4	134	61,9	124	50	27	34	M 16
GFS 114 S	3000 PSI	35	3.1/2"	103,0	89	120,7	152	69,9	136	48	27	34	M 16
GFS 116 S	3000 PSI	35	4"	115,1	99	130,2	162	77,8	146	48	27	34	M 16
GFS 401 S	6000 PSI	400	1/2"	21,6	13	40,5	54	18,2	46	36	16	19	M 8
GFS 401 S 3/8	6000 PSI	400	1/2"	17,5	13	40,5	54	18,2	46	36	16	19	M 8
GFS 401 S A20	6000 PSI	400	1/2"	20,3	13	40,5	54	18,2	46	36	16	19	M 8
GFS 402 S	6000 PSI	400	3/4"	27,2	19	50,8	71	23,8	55	35	21	22	M 10
GFS 402 S A25	6000 PSI	400	3/4"	25,3	19	50,8	71	23,8	55	35	21	22	M 10
GFS 403 S	6000 PSI	400	1"	35,0	25	57,2	81	27,8	65	42	25	22	M 12
GFS 403 S A30	6000 PSI	400	1"	30,3	25	57,2	81	27,8	65	42	25	22	M 12
GFS 404 S	6000 PSI	400	1.1/4"	42,8	32	66,7	95	31,8	78	45	27	25	M 14
GFS 404 S A38	6000 PSI	400	1.1/4"	38,3	32	66,7	95	31,8	78	45	27	25	M 14
GFS 405 S	6000 PSI	400	1.1/2"	48,6	38	79,4	112	36,5	94	50	30	28	M 16
GFS 405 S A50	6000 PSI	400	1.1/2"	50,5	38	79,4	112	36,5	94	50	30	28	M 16
GFS 406 S	6000 PSI	400	2"	61,0	51	96,8	134	44,5	114	65	37	24	M 20

PN = Nominal pressure PB = Max. operating pressure

Product versions:

GFS S U (3000 / 6000 PSI) - SAE socket weld counter flange, flange only

FT (3000 PSI / 6000 PSI)**SAE flange heads**

Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE flange heads
Included in scope of supply: flange head only
Material: S355J2G3 (ST52.3)
Surface: black oiled

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure series	PB 10.9 bar	Size	A1 mm	A2 mm	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm
FT 3001	3000 PSI	350	1/2"	30,2	23,9	10	38,1	54	17,5	45,6	16	6,9	8,7
FT 3002	3000 PSI	350	3/4"	38,1	31,7	15	47,6	65	22,2	51,8	17	6,9	10,7
FT 3003	3000 PSI	315	1"	44,4	38,1	20	52,4	70	26,2	58,4	17	8,1	10,7
FT 3004	3000 PSI	250	1.1/4"	50,8	43,2	27	58,7	79	30,2	72,6	17	8,1	*1
FT 3005	3000 PSI	200	1.1/2"	60,3	50,3	32	69,9	94	35,7	82,2	19	8,1	13,5
FT 3006	3000 PSI	200	2"	71,4	62,2	40	77,8	102	42,9	96,4	19	9,7	13,5
FT 3007	3000 PSI	160	2.1/2"	84,1	74,0	50	88,9	114	50,8	108,2	30	9,7	13,5
FT 6001	6000 PSI	400	1/2"	31,7	23,9	10	40,5	56	18,2	47,2	16	7,9	8,7
FT 6002	6000 PSI	400	3/4"	41,3	31,7	15	50,8	71	23,8	60,0	20	8,9	10,7
FT 6003	6000 PSI	400	1"	47,6	38,1	20	57,2	81	27,8	69,6	22	9,7	*2
FT 6004	6000 PSI	400	1.1/4"	54,0	43,7	27	66,7	95	31,8	77,2	27	10,4	*3
FT 6005	6000 PSI	400	1.1/2"	63,5	50,8	32	79,4	113	36,5	95,0	32	12,7	17,0
FT 6006	6000 PSI	400	2"	79,4	66,5	40	96,8	133	44,5	113,8	40	12,7	21,0

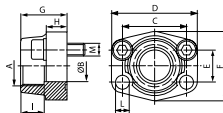
PN = Nominal pressure PB = Max. operating pressure

*1) = Choice of 10.75 or 12.0 or 12.75

AFS G (3000 PSI)

SAE screw-in flange, BSP

Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE screw-in flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

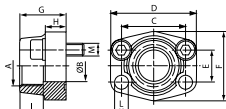
Identification	PB 10.9 bar	Size	A	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M metr.	M unc
AFS 80 G 3/8	350	1/2"	G 3/8" -19	13	38,1	54	17,5	46	36	16	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 80 G 1/2	350	1/2"	G 1/2" -14	13	38,1	54	17,5	46	36	16	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 100 G 1/2	350	3/4"	G 1/2" -14	13	47,6	65	22,2	50	36	18	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 100 G 3/4	350	3/4"	G 3/4" -14	19	47,6	65	22,2	50	36	18	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 102 G 1/2	315	1"	G 1/2" -14	13	52,4	70	26,2	55	38	18	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 102 G 3/4	315	1"	G 3/4" -14	19	52,4	70	26,2	55	35	21	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 102 G 1	315	1"	G 1" -11	25	52,4	70	26,2	55	38	18	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 104 G 3/4	250	1.1/4"	G 3/4" -14	19	58,7	79	30,2	68	41	21	11,5	M 10 x 40	7/16" x 1.1/2"
AFS 104 G 1 M10	250	1.1/4"	G 1" -11	25	58,7	81	30,2	65	42	25	11,5	M 10 x 40	
AFS 104 G 1 M12	250	1.1/4"	G 1" -11	25	58,7	81	30,2	65	42	25	13,0	M 12 x 40	
AFS 104 G1 1/4 M10	250	1.1/4"	G 1.1/4" -11	32	58,7	79	30,2	68	41	21	11,5	M 10 x 40	
AFS 104 G1 1/4 M12	250	1.1/4"	G 1.1/4" -11	32	58,7	79	30,2	68	41	21	13,0	M 12 x 40	
AFS 106 G 3/4	200	1.1/2"	G 3/4" -14	19	69,9	93	35,7	78	45	25	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 106 G 1	200	1.1/2"	G 1" -11	25	69,9	93	35,7	78	45	25	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 106 G 1 1/4	200	1.1/2"	G 1.1/4" -11	32	69,9	95	35,7	78	45	27	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 106 G 1 1/2	200	1.1/2"	G 1.1/2" -11	38	69,9	93	35,7	78	45	25	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 108 G 1	200	2"	G 1" -11	25	77,8	102	42,9	90	45	25	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 108 G 1 1/4	200	2"	G 1.1/4" -11	32	77,8	102	42,9	90	45	25	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 108 G 1 1/2	200	2"	G 1.1/2" -11	38	77,8	102	42,9	90	45	25	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 108 G 2	200	2"	G 2" -11	51	77,8	102	42,9	90	45	25	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 110 G 1 1/2	160	2.1/2"	G 1.1/2" -11	38	88,9	114	50,8	105	50	25	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 110 G 2	160	2.1/2"	G 2" -11	51	88,9	114	50,8	105	50	25	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 110 G 2 1/2	160	2.1/2"	G 2.1/2" -11	63	88,9	114	50,8	105	50	25	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 112 G 2 1/2	138	3"	G 2.1/2" -11	63	106,4	134	61,9	124	50	27	17,5	M 16 x 50	5/8" x 2"
AFS 112 G 3	138	3"	G 3" -11	73	106,4	134	61,9	124	50	27	17,5	M 16 x 50	5/8" x 2"
AFS 114 G 3	35	3.1/2"	G 3" -11	73	120,7	152	69,9	136	48	27	17,5	M 16 x 50	5/8" x 2"
AFS 114 G 3 1/2	35	3.1/2"	G 3.1/2" -11	89	120,7	152	69,9	136	48	27	17,5	M 16 x 50	5/8" x 2"
AFS 116 G 3 1/2	35	4"	G 3.1/2" -11	89	130,2	162	77,8	146	48	27	17,5	M 16 x 50	5/8" x 2"
AFS 116 G 4	35	4"	G 4" -11	99	130,2	162	77,8	146	48	27	17,5	M 16 x 50	5/8" x 2"

PN = Nominal pressure PB = Max. operating pressure

Product versions:

AFS G M (3000 PSI) - SAE screw-in flange, BSP, with metric screw set and O-ring

AFS G U (3000 PSI) - SAE screw-in flange, BSP, with UNC screw set and O-ring

AFS G (6000 PSI)**SAE screw-in flange, BSP**

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE screw-in flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M metr.	M unc
AFS 401 G 1/2	400	1/2"	G 1/2" -14	13	40,5	54	18,2	46	36	16	9	M 8 x 30	5/16" x 1.1/4"
AFS 401 G 3/8	400	1/2"	G 3/8" -19	13	40,5	54	18,2	46	36	16	9	M 8 x 30	5/16" x 1.1/4"
AFS 402 G 1/2	400	3/4"	G 1/2" -14	13	50,8	71	23,8	55	35	21	11	M 10 x 35	3/8" x 1.1/2"
AFS 402 G 3/4	400	3/4"	G 3/4" -14	19	50,8	71	23,8	55	35	21	11	M 10 x 35	3/8" x 1.1/2"
AFS 403 G 3/4	400	1"	G 3/4" -14	19	57,2	81	27,8	65	42	25	13	M 12 x 45	7/16" x 1.3/4"
AFS 403 G 1	400	1"	G 1" -11	25	57,2	81	27,8	65	42	25	13	M 12 x 45	7/16" x 1.3/4"
AFS 404 G 1	400	1.1/4"	G 1" -11	25	66,7	95	31,8	78	45	27	*1	M 14 x 45	1/2" x 1.3/4"
AFS 404 G 1 1/4	400	1.1/4"	G 1.1/4" -11	32	66,7	95	31,8	78	45	27	*1	M 14 x 45	1/2" x 1.3/4"
AFS 405 G 1 1/4	400	1.1/2"	G 1.1/4" -11	32	79,4	112	36,5	94	50	30	17	M 16 x 50	5/8" x 2"
AFS 405 G 1 1/2	400	1.1/2"	G 1.1/2" -11	38	79,4	112	36,5	94	50	30	17	M 16 x 50	5/8" x 2"
AFS 406 G 1 1/2	400	2"	G 1.1/2" -11	38	96,8	134	44,5	114	65	37	21	M 20 x 65	3/4" x 2.1/2"
AFS 406 G 2	400	2"	G 2" -11	51	96,8	134	44,5	114	65	37	21	M 20 x 65	3/4" x 2.1/2"

PN = Nominal pressure PB = Max. operating pressure

*1) = 15.0 for metric screws; 13.5 for UNC screws

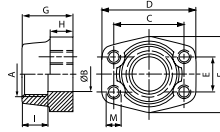
Product versions:

AFS G M (6000 PSI) - SAE screw-in flange, BSP, with metric screw set and O-ring

AFS G U (6000 PSI) - SAE screw-in flange, BSP, with UNC screw set and O-ring

GFS G M (3000 / 6000 PSI)**SAE screw-in counter flange, BSP**

Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE screw-in counter flange
Mounting: Inner thread for metric screws
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure series	PB 10.9 bar	Size	A	Ø B	C	D	E	F	G	H	I	M metr.
GFS 80 G	3000 PSI	350	1/2"	G 1/2" -14	13	38,1	54	17,5	46	36	16	19	M 8
GFS 80 G 3/8	3000 PSI	350	1/2"	G 3/8" -19	13	38,1	54	17,5	46	36	16	19	M 8
GFS 100 G	3000 PSI	350	3/4"	G 3/4" -14	19	47,6	65	22,2	50	36	18	19	M 10
GFS 100 G 1/2	3000 PSI	350	3/4"	G 1/2" -14	13	47,6	65	22,2	50	36	18	19	M 10
GFS 102 G	3000 PSI	315	1"	G 1" -11	25	52,4	70	26,2	55	38	18	22	M 10
GFS 102 G 3/4	3000 PSI	315	1"	G 3/4" -14	19	52,4	70	26,2	55	35	21	19	M 10
GFS 104 G	3000 PSI	250	1.1/4"	G 1.1/4" -11	32	58,7	79	30,2	68	41	21	22	M 10
GFS 104 G 1	3000 PSI	250	1.1/4"	G 1" -11	25	58,7	81	30,2	65	42	25	22	M 10
GFS 106 G	3000 PSI	200	1.1/2"	G 1.1/2" -11	38	69,9	93	35,7	78	45	25	24	M 12
GFS 106 G 1 1/4	3000 PSI	200	1.1/2"	G 1.1/4" -11	32	69,9	95	35,7	78	45	27	24	M 12
GFS 108 G	3000 PSI	200	2"	G 2" -11	51	77,8	102	42,9	90	45	25	30	M 12
GFS 108 G 1 1/2	3000 PSI	200	2"	G 1.1/2" -11	38	77,8	102	42,9	90	45	25	26	M 12
GFS 110 G	3000 PSI	160	2.1/2"	G 2.1/2" -11	63	88,9	114	50,8	105	50	25	30	M 12
GFS 110 G 2	3000 PSI	160	2.1/2"	G 2" -11	51	88,9	114	50,8	105	50	25	30	M 12
GFS 112 G	3000 PSI	138	3"	G 3" -11	73	106,4	134	61,9	124	50	27	34	M 16
GFS 112 G 2 1/2	3000 PSI	138	3"	G 2.1/2" -11	63	106,4	134	61,9	124	50	27	30	M 16
GFS 114 G	3000 PSI	35	3.1/2"	G 3.1/2" -11	89	120,7	152	69,9	136	48	27	34	M 16
GFS 114 G 3	3000 PSI	35	3.1/2"	G 3" -11	73	120,7	152	69,9	136	48	27	34	M 16
GFS 116 G	3000 PSI	35	4"	G 4" -11	99	130,2	162	77,8	146	48	27	34	M 16
GFS 116 G 3 1/2	3000 PSI	35	4"	G 3.1/2" -11	89	130,2	162	77,8	146	48	27	34	M 16
GFS 401 G	6000 PSI	400	1/2"	G 1/2" -14	13	40,5	54	18,2	46	36	16	19	M 8
GFS 401 G 3/8	6000 PSI	400	1/2"	G 3/8" -19	13	40,5	54	18,2	46	36	16	19	M 8
GFS 402 G	6000 PSI	400	3/4"	G 3/4" -14	19	50,8	71	23,8	55	35	21	22	M 10
GFS 402 G 1/2	6000 PSI	400	3/4"	G 1/2" -14	13	50,8	71	23,8	55	35	21	22	M 10
GFS 403 G	6000 PSI	400	1"	G 1" -11	25	57,2	81	27,8	65	42	25	24	M 12
GFS 403 G 3/4	6000 PSI	400	1"	G 3/4" -14	19	57,2	81	27,8	65	42	25	24	M 12
GFS 404 G	6000 PSI	400	1.1/4"	G 1.1/4" -11	32	66,7	95	31,8	78	45	27	25	M 14
GFS 404 G 1	6000 PSI	400	1.1/4"	G 1" -11	25	66,7	95	31,8	78	45	27	25	M 14
GFS 405 G	6000 PSI	400	1.1/2"	G 1.1/2" -11	38	79,4	112	36,5	94	50	30	28	M 16
GFS 405 G 1 1/4	6000 PSI	400	1.1/2"	G 1.1/4" -11	32	79,4	112	36,5	94	50	30	28	M 16
GFS 406 G	6000 PSI	400	2"	G 2" -11	51	96,8	134	44,5	114	65	37	30	M 20
GFS 406 G 1 1/2	6000 PSI	400	2"	G 1.1/2" -11	38	96,8	134	44,5	114	65	37	30	M 20

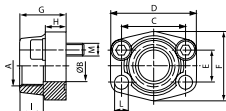
PN = Nominal pressure PB = Max. operating pressure

Product versions:

GFS G U (3000 / 6000 PSI) - SAE screw-in counter flange, BSP, flange only

AFS N (3000 PSI)

SAE screw-in flange, NPT



Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE screw-in flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M metr.	M unc
AFS 80 N 1/2	350	1/2"	NPT 1/2" -14	13	38,1	54	17,5	46	36	16	19	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 80 N 3/8	350	1/2"	NPT 3/8" -18	13	38,1	54	17,5	46	36	16	19	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 100 N 1/2	350	3/4"	NPT 1/2" -14	13	47,6	65	22,2	50	36	18	19	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 100 N 3/4	350	3/4"	NPT 3/4" -14	19	47,6	65	22,2	50	36	18	19	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 102 N 3/4	315	1"	NPT 3/4" -14	19	52,4	70	26,2	55	35	21	19	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 102 N 1	315	1"	NPT 1" -11.5	25	52,4	70	26,2	55	38	18	22	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 104 N 1	250	1.1/4"	NPT 1" -11.5	25	58,7	81	30,2	65	42	25	22	11,5	M 10 x 40	7/16" x 1.1/2"
AFS 104 N1 1/4	250	1.1/4"	NPT 1.1/4" -11.5	32	58,7	79	30,2	68	41	21	22	11,5	M 10 x 40	7/16" x 1.1/2"
AFS 106 N1 1/4	200	1.1/2"	NPT 1.1/4" -11.5	32	69,9	95	35,7	78	45	27	24	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 106 N1 1/2	200	1.1/2"	NPT 1.1/2" -11.5	38	69,9	93	35,7	78	45	25	24	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 108 N1 1/2	200	2"	NPT 1.1/2" -11.5	38	77,8	102	42,9	90	45	25	26	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 108 N 2	200	2"	NPT 2" -11.5	51	77,8	102	42,9	90	45	25	30	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 110 N2 1/2	160	2.1/2"	NPT 2.1/2" -11.5	63	88,9	114	50,8	105	50	25	30	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 112 N	138	3"	NPT 3" -11.5	73	106,4	134	61,9	124	50	27	34	17,5	M 16 x 50	5/8" x 2"
AFS 114 N	35	3.1/2"	NPT 3.1/2" -11.5	89	120,7	152	69,9	136	48	27	34	17,5	M 16 x 50	5/8" x 2"
AFS 116 N	35	4"	NPT 4" -11.5	99	130,2	162	77,8	146	48	27	34	17,5	M 16 x 50	5/8" x 2"

PN = Nominal pressure PB = Max. operating pressure

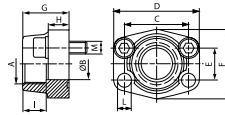
Product versions:

AFS N M (3000 / 6000 PSI) - SAE screw-in flange, NPT, with metric screw set and O-ring

AFS N U (3000 / 6000 PSI) - SAE screw-in flange, NPT, with UNC screw set and O-ring

AFS N (6000 PSI)**SAE screw-in flange, NPT**

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE screw-in flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	M metr.	M unc
AFS 401 N	400	1/2"	NPT 1/2" -14	13	40,5	54	18,2	46	36	16	19	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 401 N 3/8	400	1/2"	NPT 3/8" -18	13	40,5	54	18,2	46	36	16	19	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 402 N	400	3/4"	NPT 3/4" -14	19	50,8	71	23,8	55	35	21	22	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 402 N 1/2	400	3/4"	NPT 1/2" -14	13	50,8	71	23,8	55	35	21	22	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 403 N	400	1"	NPT 1" -11.5	25	57,2	81	27,8	65	42	25	24	13,0	M 12 x 45	7/16" x 1.3/4"
AFS 403 N 3/4	400	1"	NPT 3/4" -14	19	57,2	81	27,8	65	42	25	24	13,0	M 12 x 45	7/16" x 1.3/4"
AFS 404 N	400	1.1/4"	NPT 1.1/4" -11.5	32	66,7	95	31,8	78	45	27	25	*1	M 14 x 45	1/2" x 1.3/4"
AFS 404 N 1	400	1.1/4"	NPT 1" -11.5	25	66,7	95	31,8	78	45	27	25	*1	M 14 x 45	1/2" x 1.3/4"
AFS 405 N	400	1.1/2"	NPT 1.1/2" -11.5	38	79,4	112	36,5	94	50	30	28	17,0	M 16 x 50	5/8" x 2"
AFS 405 N 1 1/4	400	1.1/2"	NPT 1.1/4" -11.5	32	79,4	112	36,5	94	50	30	28	17,0	M 16 x 50	5/8" x 2"
AFS 406 N	400	2"	NPT 2" -11.5	51	96,8	134	44,5	114	65	37	30	21,0	M 20 x 65	3/4" x 2.1/2"
AFS 406 N 1 1/2	400	2"	NPT 1.1/2" -11.5	38	96,8	134	44,5	114	65	37	30	21,0	M 20 x 65	3/4" x 2.1/2"

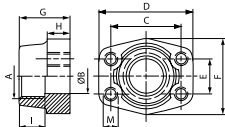
PN = Nominal pressure PB = Max. operating pressure

*1) = 15.0 for metric screws; 13.5 for UNC screws

Product versions:

AFS N M (3000 / 6000 PSI) - SAE screw-in flange, NPT, with metric screw set and O-ring

AFS N U (3000 / 6000 PSI) - SAE screw-in flange, NPT, with UNC screw set and O-ring

GFS N M (3000 / 6000 PSI)**SAE screw-in counter flange, NPT**

Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE screw-in counter flange
Mounting: Inner thread for metric screws
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure series	PB 10.9 bar	Size	A	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	M metr.
GFS 80 N	3000 PSI	350	1/2"	NPT 1/2" -14	13	38,1	54	17,5	46	36	16	19	M 8
GFS 80 N 3/8	3000 PSI	350	1/2"	NPT 3/8" -18	13	38,1	54	17,5	46	36	16	19	M 8
GFS 100 N	3000 PSI	350	3/4"	NPT 3/4" -14	19	47,6	65	22,2	50	36	18	19	M 10
GFS 100 N 1/2	3000 PSI	350	3/4"	NPT 1/2" -14	13	47,6	65	22,2	50	36	18	19	M 10
GFS 102 N	3000 PSI	315	1"	NPT 1" -11.5	25	52,4	70	26,2	55	38	18	22	M 10
GFS 102 N 3/4	3000 PSI	315	1"	NPT 3/4" -14	19	52,4	70	26,2	55	35	21	19	M 10
GFS 104 N	3000 PSI	250	1.1/4"	NPT 1.1/4" -11.5	32	58,7	79	30,2	68	41	21	22	M 10
GFS 104 N 1	3000 PSI	250	1.1/4"	NPT 1" -11.5	25	58,7	81	30,2	65	42	25	22	M 10
GFS 106 N	3000 PSI	200	1.1/2"	NPT 1.1/2" -11.5	38	69,9	93	35,7	78	45	25	24	M 12
GFS 106 N 1 1/4	3000 PSI	200	1.1/2"	NPT 1.1/4" -11.5	32	69,9	95	35,7	78	45	27	24	M 12
GFS 108 N	3000 PSI	200	2"	NPT 2" -11.5	51	77,8	102	42,9	90	45	25	30	M 12
GFS 108 N 1 1/2	3000 PSI	200	2"	NPT 1.1/2" -11.5	38	77,8	102	42,9	90	45	25	26	M 12
GFS 110 N	3000 PSI	160	2.1/2"	NPT 2.1/2" -11.5	63	88,9	114	50,8	105	50	25	30	M 12
GFS 112 N	3000 PSI	138	3"	NPT 3" -11.5	73	106,4	134	61,9	124	50	27	34	M 16
GFS 114 N	3000 PSI	35	3.1/2"	NPT 3.1/2" -11.5	89	120,7	152	69,9	136	48	27	34	M 16
GFS 116 N	3000 PSI	35	4"	NPT 4" -11.5	99	130,2	162	77,8	146	48	27	34	M 16
GFS 401 N	6000 PSI	400	1/2"	NPT 1/2" -14	13	40,5	54	18,2	46	36	16	19	M 8
GFS 401 N 3/8	6000 PSI	400	1/2"	NPT 3/8" -18	13	40,5	54	18,2	46	36	16	19	M 8
GFS 402 N	6000 PSI	400	3/4"	NPT 3/4" -14	19	50,8	71	23,8	55	35	21	22	M 10
GFS 402 N 1/2	6000 PSI	400	3/4"	NPT 1/2" -14	13	50,8	71	23,8	55	35	21	22	M 10
GFS 403 N	6000 PSI	400	1"	NPT 1" -11.5	25	57,2	81	27,8	65	42	25	24	M 12
GFS 403 N 3/4	6000 PSI	400	1"	NPT 3/4" -14	19	57,2	81	27,8	65	42	25	24	M 12
GFS 404 N	6000 PSI	400	1.1/4"	NPT 1.1/4" -11.5	32	66,7	95	31,8	78	45	27	25	M 14
GFS 404 N 1	6000 PSI	400	1.1/4"	NPT 1" -11.5	25	66,7	95	31,8	78	45	27	25	M 14
GFS 405 N	6000 PSI	400	1.1/2"	NPT 1.1/2" -11.5	38	79,4	112	36,5	94	50	30	28	M 16
GFS 405 N 1 1/4	6000 PSI	400	1.1/2"	NPT 1.1/4" -11.5	32	79,4	112	36,5	94	50	30	28	M 16
GFS 406 N	6000 PSI	400	2"	NPT 2" -11.5	51	96,8	134	44,5	114	65	37	30	M 20
GFS 406 N 1 1/2	6000 PSI	400	2"	NPT 1.1/2" -11.5	38	96,8	134	44,5	114	65	37	30	M 20

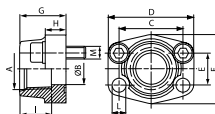
PN = Nominal pressure PB = Max. operating pressure

Product versions:

GFS N U (3000 / 6000 PSI) - SAE screw-in counter flange, NPT, flange only

AFS T (3000 / 6000 PSI)**SAE screw-in flange, UN/UNF**

Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE screw-in flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure series	PB 10.9 bar	Size	A	ØB mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm
AFS 80 T	3000 PSI	350	1/2"	UNF 3/4" -16	13	38,1	54	17,5	46	36	16	17	9,0
AFS 100 T	3000 PSI	350	3/4"	UNF 1 1/16" -12	19	47,6	65	22,3	50	36	18	23	11,0
AFS 102 T	3000 PSI	315	1"	UN 1.5/16" -12	25	52,4	70	26,2	55	38	18	23	11,0
AFS 104 T	3000 PSI	250	1.1/4"	UN 1.5/8" -12	32	58,7	79	30,2	68	41	21	23	11,5
AFS 106 T	3000 PSI	200	1.1/2"	UN 1.7/8" -12	38	69,9	93	35,7	78	45	25	23	13,5
AFS 401 T	6000 PSI	400	1/2"	UNF 3/4" -16	13	40,5	54	18,2	46	36	16	17	9,0
AFS 402 T	6000 PSI	400	3/4"	UNF 1 1/16" -12	19	50,8	71	23,8	55	35	21	23	11,0
AFS 403 T	6000 PSI	400	1"	UN 1.5/16" -12	25	57,2	81	27,8	65	42	25	23	13,0
AFS 404 T	6000 PSI	400	1.1/4"	UN 1.5/8" -12	32	66,7	95	31,8	78	45	27	23	*1
AFS 405 T	6000 PSI	400	1.1/2"	UN 1.7/8" -12	38	79,4	112	36,5	94	50	30	23	17,0

PN = Nominal pressure PB = Max. operating pressure

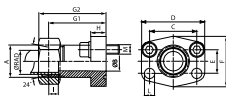
*1) = 15,0 for metric screws; 13,5 for UNC screws

Product versions:

AFS T M (3000 / 6000 PSI) - SAE screw-in flange, UN/UNF, with metric screw set and O-ring

AFS T U (3000 / 6000 PSI) - SAE screw-in flange, UN/UNF, with UNC screw set and O-ring

SAE external thread flange



Note: In accordance with SAE J 518 C, the specified nominal pressure is defined by the flange or based on the pipe to be welded on. Recommended screws are listed in the columns M (metr) and M (unc).

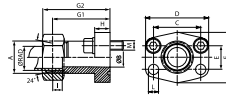
Identification	Series	Ø RAD mm	PB 10.9 bar	Size	A	Ø B mm	C mm	E mm	G1 mm	I mm	L mm	M metr.	M unc.
AFG 80 M/L15	L	15	315	1/2"	M22x1,5	12	38,1	17,5	52	7,0	9,0	M 8 x 30	5/16" x 1.1/4"
AFG 100 M/L22	L	22	160	3/4"	M30x2	19	47,6	22,2	60	7,5	11,5	M 10 x 30	3/8" x 1.1/4"
AFG 100 M/S20	S	20	345	3/4"	M30x2	16	47,6	22,2	60	10,5	11,5	M 10 x 30	3/8" x 1.1/4"
AFG 102 M/L22	L	22	160	1"	M30x2	19	52,4	26,2	63	7,5	11,5	M 10 x 30	3/8" x 1.1/4"
AFG 102 M/L28	L	28	160	1"	M36x2	24	52,4	26,2	63	7,5	11,5	M 10 x 30	3/8" x 1.1/4"
AFG 102 M/S20	S	20	315	1"	M30x2	16	52,4	26,2	63	10,5	11,5	M 10 x 30	3/8" x 1.1/4"
AFG 102 M/S25	S	25	315	1"	M36x2	20	52,4	26,2	63	12,0	11,5	M 10 x 30	3/8" x 1.1/4"
AFG 104 M/L28	L	28	160	1.1/4"	M36x2	24	58,7	30,2	65	7,5	11,5	M 10 x 35	7/16" x 1.1/2"
AFG 104 M/L35	L	35	160	1.1/4"	M45x2	29	58,7	30,2	65	10,5	11,5	M 10 x 35	7/16" x 1.1/2"
AFG 104 M/S30	S	30	250	1.1/4"	M42x2	25	58,7	30,2	65	13,5	11,5	M 10 x 35	7/16" x 1.1/2"
AFG 106 M/L42	L	42	160	1.1/2"	M52x2	36	69,9	35,7	70	11,0	13,5	M 12 x 35	1 1/2" x 1.1/2"
AFG 106 M/S38	S	38	200	1.1/2"	M52x2	32	69,9	35,7	70	16,0	13,5	M 12 x 35	1 1/2" x 1.1/2"

PN = Nominal pressure PB = Max. operating pressure Ø = External pipe diameter Series: LL = Very light L = Light S = Heavy

AFG M U (3000 / 6000 PSI) - SAE external thread flange, with UNC screw set and O-ring

AFG M (6000 PSI)**SAE external thread flange**

Pressure series: 6000 psi
Standard: DIN 3901/3902
Construction: straight
Design: SAE external thread flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: In accordance with SAE J 518 C, the specified nominal pressure is defined by the flange or based on the pipe to be welded on. Recommended screws are listed in the columns M (metr) and M (unc).

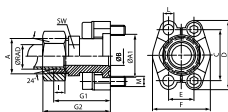
Identification	Series	Ø RAD mm	PB 10.9 bar	Size	A	Ø B mm	C mm	E mm	G1 mm	I mm	L mm	M metr.	M unc
AFG 401 M/S16	S	16	400	1/2"	M24x1,5	12	40,5	18,2	60	8,5	9,0	M 8 x 30	5/16" x 1.1/4"
AFG 402 M/S25	S	25	400	3/4"	M36x2	19	50,8	23,8	73	12,0	11,5	M 10 x 35	3/8" x 1.1/2"
AFG 403 M/S30	S	30	400	1"	M42x2	25	57,2	27,8	82	13,5	13,0	M 12 x 45	7/16" x 1.3/4"
AFG 404 M/S30	S	30	400	1.1/4"	M42x2	25	66,7	31,8	92	13,5	*1	M 14 x 50	1/2" x 1.3/4"
AFG 404 M/S38	S	38	400	1.1/4"	M52x2	29	66,7	31,8	92	16,0	*1	M 14 x 50	1/2" x 1.3/4"
AFG 405 M/S38	S	38	400	1.1/2"	M52x2	32	79,4	36,5	96	16,0	17,5	M 16 x 50	5/8" x 2"

PN = Nominal pressure PB = Max. operating pressure Ø = External pipe diameter Series: LL = Very light L = Light S = Heavy
 *1) = 15.0 for metric screws; 13.5 for UNC screws

Product versions:

AFG M M (3000 / 6000 PSI) - SAE external thread flange, with metric screw set and O-ring

AFG M U (3000 / 6000 PSI) - SAE external thread flange, with UNC screw set and O-ring

SFCE (3000 PSI)**SAE external thread flange**

Pressure series: 3000 psi
Standard: DIN 3901/3902
Construction: straight
Design: SAE external thread flange
Included in scope of supply: connecting piece only
Material: S355J2G3 (C22)
Surface: electro galvanised

Note: In accordance with SAE J 518 C, the specified nominal pressure is defined by the flange or based on the pipe to be welded on. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	Series	Ø RAD mm	PB 10.9 bar	Size	A	A1 mm	Ø B mm	C mm	E mm	G1 mm	I mm	L mm	M metr.	M unc
SFCE 3001 L15	L	15	315	1/2"	M22x1,5	30,2	16/20	38,1	17,5	48,2	7,0	8,7	M 8 x 30	5/16" x 1.1/4"
SFCE 3002 L18	L	18	315	3/4"	M26x1,5	38,1	15/20	47,6	22,2	53,2	7,5	10,7	M 10 x 35	3/8" x 1.1/2"
SFCE 3002 L22	L	22	160	3/4"	M30x2	38,1	19	47,6	22,2	53,2	7,5	10,7	M 10 x 35	3/8" x 1.1/2"
SFCE 3002 L28	L	28	160	3/4"	M36x2	38,1	19	47,6	22,2	53,2	7,5	10,7	M 10 x 35	3/8" x 1.1/2"
SFCE 3003 L28	L	28	160	1"	M36x2	44,4	24	52,4	26,2	54,2	7,5	10,7	M 10 x 35	3/8" x 1.1/2"
SFCE 3004 L28	L	28	160	1.1/4"	M36x2	50,8	22	58,7	30,2	58,6	7,5	*1	*2	7/16" x 1.1/2"
SFCE 3004 L35	L	35	160	1.1/4"	M45x2	50,8	30/32	58,7	30,2	58,2	10,5	*1	*2	7/16" x 1.1/2"
SFCE 3005 L42	L	42	160	1.1/2"	M52x2	60,3	36	69,9	35,7	64,2	11,0	13,5	M 12 x 40	1/2" x 1.1/2"
SFCE 3001 S16	S	16	350	1/2"	M24x1,5	30,2	13	38,1	17,5	50,2	8,5	8,7	M 8 x 30	5/16" x 1.1/4"
SFCE 3002 S20	S	20	350	3/4"	M30x2	38,1	16/20	47,6	22,2	57,2	10,5	10,7	M 10 x 35	3/8" x 1.1/2"
SFCE 3002 S25	S	25	350	3/4"	M36x2	38,1	17	47,6	22,2	57,2	12,0	10,7	M 10 x 35	3/8" x 1.1/2"
SFCE 3003 S25	S	25	315	1"	M36x2	44,4	20	52,4	26,2	58,2	12,0	10,7	M 10 x 35	3/8" x 1.1/2"
SFCE 3003 S30	S	30	315	1"	M42x2	44,4	24	52,4	26,2	63,2	13,5	10,7	M 10 x 35	3/8" x 1.1/2"
SFCE 3004 S25	S	25	250	1.1/4"	M36x2	50,8	20/27	58,7	30,2	60,2	12,0	*1	*2	7/16" x 1.1/2"
SFCE 3004 S30	S	30	250	1.1/4"	M42x2	50,8	25/28	58,7	30,2	62,2	13,5	*1	*2	7/16" x 1.1/2"
SFCE 3004 S38	S	38	250	1.1/4"	M52x2	50,8	28	58,7	30,2	66,6	16,0	*1	*2	7/16" x 1.1/2"
SFCE 3005 S38	S	38	200	1.1/2"	M52x2	60,3	32	69,9	35,7	70,2	16,0	13,5	M 12 x 40	1/2" x 1.1/2"

Series: LL = Very light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø RAD = External pipe diameter

*1) = Choice of 10,5, 12,0 or 12,5

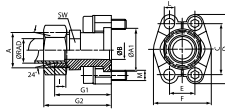
Product versions:

SFCE M (3000 / 6000 PSI) - SAE external thread flange, with 2 flange halves, screw set, O-ring, nut and cutting ring

SFCE U (3000 / 6000 PSI) - SAE external thread flange, with 2 flange halves, screw set, O-ring, nut and cutting ring

SFCE (6000 PSI)**SAE external thread flange**

Pressure series: 6000 psi
Standard: DIN 3901/3902
Construction: straight
Design: SAE external thread flange
Included in scope of supply: connecting piece only
Material: S355J2G3 (C22)
Surface: electro galvanised



Note: In accordance with SAE J 518 C, the specified nominal pressure is defined by the flange or based on the pipe to be welded on. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	Series	Ø RAD mm	PB 10.9 bar	Size	A	A1 mm	Ø B mm	G1 mm	G2 mm	I mm	L mm	M metr.	M unc
SFCE 6001 S16	S	16	400	1/2"	M24x1,5	31,7	12	53,2	63	8,5	8,5	M 8 x 30	5/16" x 1.1/4"
SFCE 6002 S16	S	16	400	3/4"	M24x1,5	41,3	12	59,2	69	8,5	10,5	M 10 x 35	3/8" x 1.1/2"
SFCE 6002 S20	S	20	400	3/4"	M30x2	41,3	16	61,2	72	10,5	10,5	M 10 x 35	3/8" x 1.1/2"
SFCE 6002 S25	S	25	400	3/4"	M36x2	41,3	17	63,2	75	12,0	10,5	M 10 x 35	3/8" x 1.1/2"
SFCE 6002 S30	S	30	400	3/4"	M42x2	41,3	18	64,0	77	13,5	10,5	M 10 x 35	3/8" x 1.1/2"
SFCE 6003 S25	S	25	400	1"	M36x2	47,6	20	72,2	84	12,0	*1	M 12 x 45	7/16" x 1.3/4"
SFCE 6003 S30	S	30	400	1"	M42x2	47,6	24	74,0	87	13,5	*1	M 12 x 45	7/16" x 1.3/4"
SFCE 6004 S30	S	30	400	1.1/4"	M42x2	54,0	25/30	79,2	92	13,5	*2	M 14 x 50	1/2" x 1.3/4"
SFCE 6004 S38	S	38	350	1.1/4"	M52x2	54,0	30	83,2	98	16,0	*2	M 14 x 50	1/2" x 1.3/4"
SFCE 6005 S38	S	38	350	1.1/2"	M52x2	63,5	30	89,2	104	16,0	16,7	M 16 x 55	1/2" x 1.3/4"

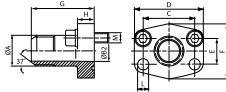
PN = Nominal pressure PB = Max. operating pressure Series: LL = Very light L = Light S = Heavy

*1) = Choice of 12.0 or 12.5

Product versions:

SFCE M (3000 / 6000 PSI) - SAE external thread flange, with 2 flange halves, screw set, O-ring, nut and cutting ring

SFCE U (3000 / 6000 PSI) - SAE external thread flange, with 2 flange halves, screw set, O-ring, nut and cutting ring

AFG JIC (3000 PSI)**SAE external thread flange**

Pressure series:	3000 psi
Standard:	SAE J 518 C, ISO 6162
Construction:	straight
Design:	SAE external thread flange
Mounting:	Screw bore hole
Included in scope of supply:	flange only
Material:	S355J2G3 (ST52.3)
Surface:	black oiled

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M metr.	M unc
AFG 80 JIC 3/4	350	1/2"	UNF 3/4" -16	9,9	38,1	54	17,5	46	52	13	9,0	M 8 x 30	5/16" x 1.1/4"
AFG 80 JIC 7/8	350	1/2"	UNF 7/8" -14	12,3	38,1	54	17,5	46	52	13	9,0	M 8 x 30	3/8" x 1.1/4"
AFG 100 JIC 1 1/16	350	3/4"	UNF 1 1/16" -12	15,5	47,6	65	22,2	50	60	14	11,5	M 10 x 30	3/8" x 1.1/4"
AFG 102 JIC 1 5/16	315	1"	UN 1.5/16" -12	21,5	52,4	70	26,2	55	63	16	11,5	M 10 x 30	3/8" x 1.1/4"
AFG 104 JIC 1 5/16	250	1.1/4"	UN 1.5/16" -12	21,5	58,7	79	30,2	68	65	14	11,5	M 10 x 30	7/16" x 1.1/2"
AFG 104 JIC 1 5/8	250	1.1/4"	UN 1.5/8" -12	27,5	58,7	79	30,2	68	65	14	11,5	M 10 x 30	7/16" x 1.1/2"
AFG 106 JIC 1 7/8	200	1.1/2"	UN 1.7/8" -12	33,0	69,9	94	35,7	78	70	16	13,5	M 12 x 35	1/2" x 1.1/2"
PN = Nominal pressure PB = Max. operating pressure Series: LL = Very light L = Light S = Heavy Ø = External pipe diameter													

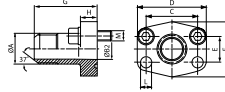
Product versions:

AFG JIC U (3000 / 6000 PSI) - SAE external thread flange, with UNC screw set and O-ring

AFG JIC M (3000 / 6000 PSI) - SAE external thread flange, with metric screw set and O-ring

AFG JIC (6000 PSI)**SAE external thread flange**

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE external thread flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	Ø B mm	C mm	D mm	E mm	F mm	G mm	H mm	L mm	M metr.	M unc
AFG 401 JIC 3/4	400	1/2"	UNF 3/4" -16	9,9	40,5	56	18,2	48	60	16	9,0	M 8 x 30	5/16" x 1.1/4"
AFG 401 JIC 7/8	400	1/2"	UNF 7/8" -14	12,3	40,5	56	18,2	48	60	16	9,0	M 8 x 30	5/16" x 1.1/4"
AFG 402 JIC 1 1/16	400	3/4"	UNF 1 1/16" -12	15,5	50,8	71	23,8	60	73	19	11,5	M 10 x 35	3/8" x 1.1/2"
AFG 403 JIC 1 5/16	400	1"	UN 1.5/16" -12	21,5	57,2	81	27,8	70	82	24	13,0	M 12 x 45	7/16" x 1.3/4"
AFG 404 JIC 1 5/8	400	1.1/4"	UN 1.5/8" -12	27,5	66,7	95	31,8	78	92	27	*1	M 14 x 50	1/2" x 1.3/4"
AFG 404 JIC 1 5/16	400	1.1/4"	UN 1.5/16" -12	21,5	66,7	95	31,8	78	92	27	*1	M 14 x 50	1/2" x 1.3/4"
AFG 405 JIC 1 7/8	400	1.1/2"	UN 1.7/8" -12	33,0	79,4	113	36,5	95	96	30	17,5	M 16 x 50	5/8" x 2"
Series: LL = Very light L = Light S = Heavy Ø = External pipe diameter PN = Nominal pressure PB = Max. operating pressure *1) = 15.0 for metric screws; 13.5 for UNC screws													

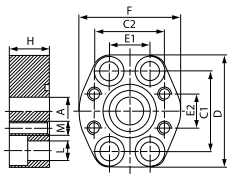
Product versions:

AFG JIC U (3000 / 6000 PSI) - SAE external thread flange, with UNC screw set and O-ring

AFG JIC M (3000 / 6000 PSI) - SAE external thread flange, with metric screw set and O-ring

GAF (6000 PSI)

SAE reduction



Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE reduction
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled

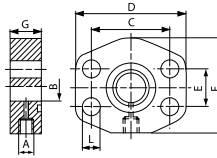
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A mm	C1 mm	C2 mm	D mm	E1 mm	E2 mm	F mm	H mm	L mm	M metr.	Screws
GAF 602-602	400	3/4" x 3/4"	19	50,8	50,8	70	23,8	23,8	70	28	11	M 10	M 10 x 35
GAF 603-602	400	1" x 3/4"	19	57,2	50,8	80	27,8	23,8	70	30	13	M 10	M 12 x 40
GAF 603-603	400	1" x 1"	25	57,2	57,2	80	27,8	27,8	75	36	13	M 12	M 12 x 45
GAF 604-603	400	1.1/4" x 1"	23	68,7	57,2	100	31,8	27,8	83	25	15	M 12	M 14 x 40
GAF 604-604	400	1.1/4" x 1.1/4"	31	68,7	68,7	100	31,8	31,8	90	35	15	M 14	M 14 x 50
GAF 605-604	400	1.1/2" x 1.1/4"	32	79,4	68,7	113	36,5	31,8	95	48	17	M 14	M 16 x 55
GAF 605-605	400	1.1/2" x 1.1/2"	38	79,4	79,4	113	36,5	36,5	105	50	17	M 16	M 16 x 55

PN = Nominal pressure PB = Max. operating pressure

AGL (3000 PSI / 6000 PSI)**SAE adapter flange with measuring connection**

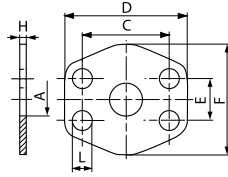
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE adapter flange with measuring connection
Mounting: Screw bore hole
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure series	PB 10.9 bar	Size	A	G mm	ØB mm	C mm	D mm	E mm	F mm	L mm
AGL 80	3000 PSI	350	1/2"	G 1/4" -19	24	12	38,1	55	17,5	38	9,0
AGL 100	3000 PSI	350	3/4"	G 1/4" -19	24	19	47,6	65	22,3	50	11,0
AGL 102	3000 PSI	315	1"	G 1/4" -19	24	24	52,4	70	26,2	50	11,0
AGL 104	3000 PSI	250	1.1/4"	G 1/4" -19	23	32	58,7	81	30,2	70	12,5
AGL 106	3000 PSI	200	1.1/2"	G 1/4" -19	24	38	69,9	95	35,7	78	13,5
AGL 108	3000 PSI	200	2"	G 1/4" -19	24	50	77,8	102	42,9	90	13,5
AGL 401	6000 PSI	400	1/2"	G 1/4" -19	24	12	40,5	55	18,2	38	9,0
AGL 402	6000 PSI	400	3/4"	G 1/4" -19	24	19	50,8	70	23,8	50	11,0
AGL 403	6000 PSI	400	1"	G 1/4" -19	23	24	57,2	81	27,8	70	13,0
AGL 404	6000 PSI	400	1.1/4"	G 1/4" -19	24	32	66,7	95	31,8	78	15,0
AGL 405	6000 PSI	400	1.1/2"	G 1/4" -19	24	38	79,4	112	36,5	94	17,0
AGL 406	6000 PSI	400	2"	G 1/4" -19	24	51	96,8	134	44,5	114	21,0

PN = Nominal pressure PB = Max. operating pressure

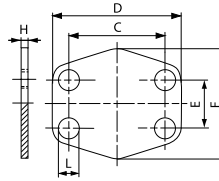
ZP (3000 PSI / 6000 PSI)**SAE shim**

Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE shim
Mounting: Screw bore hole
Material: Steel ST 35
Surface: black oiled

Identification	Pressure series	Size	A mm	C mm	D mm	E mm	F mm	H mm	L mm
ZP 80	3000 PSI	1/2"	13	38,1	54	17,5	45,6	3	9
ZP 100	3000 PSI	3/4"	19	47,6	65	22,2	51,8	3	11
ZP 102	3000 PSI	1"	25	52,4	70	26,2	58,4	3	11
ZP 104	3000 PSI	1.1/4"	32	58,7	79	30,2	72,6	3	11
ZP 106	3000 PSI	1.1/2"	38	69,9	94	35,7	82,2	3	13
ZP 108	3000 PSI	2"	51	77,8	102	42,9	90,0	3	13
ZP 110	3000 PSI	2.1/2"	63	88,9	114	50,8	108,0	3	13
ZP 112	3000 PSI	3"	73	106,4	135	61,9	130,6	4	17
ZP 114	3000 PSI	3.1/2"	89	120,7	152	69,9	139,0	4	17
ZP 116	3000 PSI	4"	99	130,2	162	77,8	152,0	4	17
ZP 118	3000 PSI	5"	120	152,4	184	92,1	180,0	4	17
ZP 401	6000 PSI	1/2"	13	40,5	56	18,2	47,2	4	9
ZP 402	6000 PSI	3/4"	17	50,8	71	23,8	60,0	4	11
ZP 403	6000 PSI	1"	24	57,2	81	27,8	69,6	4	13
ZP 404	6000 PSI	1.1/4"	31	66,7	95	31,8	77,2	4	15
ZP 405	6000 PSI	1.1/2"	38	79,4	113	36,5	95,0	4	17
ZP 406	6000 PSI	2"	51	96,8	133	44,5	113,8	4	21

AP (3000 / 6000 PSI)**SAE end plate**

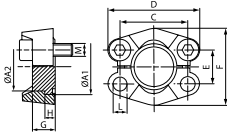
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE end plate
Mounting: Screw bore hole
Material: Steel ST 35
Surface: black oiled



Identification	Pressure series	Size	C mm	D mm	E mm	F mm	H mm	L mm
AP 80	3000 PSI	1/2"	38,1	54	17,5	45,6	3	9
AP 100	3000 PSI	3/4"	47,6	65	22,3	51,8	3	11
AP 102	3000 PSI	1"	52,4	70	26,2	58,4	3	11
AP 104	3000 PSI	1.1/4"	58,7	79	30,2	72,6	3	11
AP 106	3000 PSI	1.1/2"	69,9	94	35,7	82,2	3	13
AP 108	3000 PSI	2"	77,8	102	42,9	90,0	3	13
AP 110	3000 PSI	2.1/2"	88,9	114	50,8	108,1	3	13
AP 112	3000 PSI	3"	106,4	135	61,9	130,6	4	17
AP 114	3000 PSI	3.1/2"	120,7	152	69,9	139,0	4	17
AP 116	3000 PSI	4"	130,2	162	77,8	152,0	4	17
AP 118	3000 PSI	5"	152,4	184	92,1	180,0	4	17
AP 401	6000 PSI	1/2"	40,5	56	18,2	47,2	4	9
AP 402	6000 PSI	3/4"	50,8	71	23,8	60,0	4	11
AP 403	6000 PSI	1"	57,2	81	27,8	69,6	4	13
AP 404	6000 PSI	1.1/4"	66,7	95	31,8	77,2	4	15
AP 405	6000 PSI	1.1/2"	79,4	113	36,5	95,0	4	17
AP 406	6000 PSI	2"	96,8	133	44,5	113,8	4	21

BL (3000 PSI)

SAE blind plate



Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE blind plate
Included in scope of supply: blind plate only
Material: S355J2G3 (C22)
Surface: electro galvanised

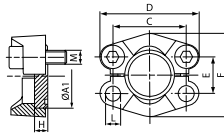
Identification	PB 10.9 bar	Size	A1 mm	A2 mm	G mm	C mm	D mm	E mm	F mm	H mm	L mm	M metr.	M unc
BL 3001	350	1/2"	30,2	24,0	16	38,1	54	17,5	46	6,8	8,7	M 8 x 25	5/16" x 1.1/4"
BL 3002	350	3/4"	38,1	31,8	17	47,6	65	22,3	52	6,8	10,7	M 10 x 30	3/8" x 1.1/4"
BL 3003	315	1"	44,5	38,0	17	52,4	70	26,2	59	8,0	10,7	M 10 x 30	3/8" x 1.1/4"
BL 3004	250	1.1/4"	50,8	43,0	17	58,7	79	30,2	73	8,0	*1	*2	7/16" x 1.1/2"
BL 3005	200	1.1/2"	60,3	50,0	19	69,9	94	35,7	83	8,0	13,5	M 12 x 35	1/2" x 1.1/2"
BL 3006	200	2"	71,4	62,0	19	77,8	102	42,9	97	9,6	13,5	M 12 x 35	1/2" x 1.1/2"

PN = Nominal pressure PB = Max. operating pressure

*1) = Choice of 10.75 or 12.0 or 12.75

BL (6000 PSI)**SAE blind plate**

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE blind plate
Included in scope of supply: blind plate only
Material: S355J2G3 (C22)
Surface: electro galvanised



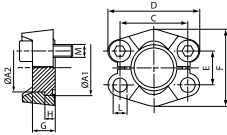
Identification	PB 10.9 bar	Size	A1 mm	G mm	C mm	D mm	E mm	F mm	H mm	L mm	M metr.	M unc
BL 6001	250	1/2"	31,8	14	40,5	56	18,2	48	7,8	8,7	M 8 x 30	5/16" x 1.1/4"
BL 6002	250	3/4"	41,3	15	50,8	71	23,8	60	8,8	10,5	M 10 x 35	3/8" x 1.1/2"
BL 6003	250	1"	47,6	16	57,2	81	27,8	70	9,5	*1	M 12 x 45	7/16" x 1.3/4"
BL 6004	250	1.1/4"	54,0	16	66,6	95	31,8	78	10,4	*2	M 14 x 45	1/2" x 1.3/4"
BL 6005	250	1.1/2"	63,5	19	79,3	113	36,5	95	12,6	17,0	M 16 x 55	5/8" x 2"
BL 6006	250	2"	79,4	30	96,8	133	44,5	114	12,6	21,0	M 20 x 70	3/4" x 2.1/2"

PN = Nominal pressure PB = Max. operating pressure

*1) = Choice of 12.0 or 12.5

BS (6000 PSI)

SAE blind plate



Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE blind plate
Included in scope of supply: blind plate only
Material: Steel 9SMnPb28K / C15
Surface: electro galvanised

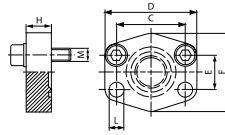
Identification	PB 10.9 bar	Size	A1 mm	A2 mm	G mm	C mm	D mm	E mm	F mm	H mm	L mm
BS 6001	400	1/2"	31,8	24,0	14	40,5	56	18,2	48	7,8	8,7
BS 6002	400	3/4"	41,3	31,8	15	50,8	71	23,8	60	8,8	10,7
BS 6003	400	1"	47,6	38,0	16	57,2	81	27,8	70	9,5	*1
BS 6004	400	1.1/4"	54,0	44,0	16	66,6	95	31,8	78	10,3	*2
BS 6005	400	1.1/2"	63,5	50,8	19	79,3	113	36,5	95	12,6	17,0
BS 6006	400	2"	79,4	67,0	30	96,8	133	44,5	114	12,6	21,0

PN = Nominal pressure PB = Max. operating pressure

*1) = Choice of 12.0 or 12.5

AFC (3000 / 6000 PSI)**SAE sealing flange**

Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE sealing flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	Pressure series	PB 10.9 bar	Size	C mm	D mm	E mm	F mm	H mm	L mm	M metr.	M unc
AFC 80	3000 PSI	350	1/2"	38,1	56	17,5	48	16	9,0	M 8 x 30	5/16" x 1.1/4"
AFC 100	3000 PSI	350	3/4"	47,6	65	22,2	50	16	11,0	M 10 x 35	3/8" x 1.1/2"
AFC 102	3000 PSI	315	1"	52,4	70	26,2	60	19	11,0	M 10 x 35	3/8" x 1.1/2"
AFC 104	3000 PSI	250	1.1/4"	58,7	79	30,2	68	18	11,5	M 10 x 40	7/16" x 1.1/2"
AFC 106	3000 PSI	200	1.1/2"	69,9	93	35,7	78	20	13,5	M 12 x 45	7/16" x 1.1/2"
AFC 108	3000 PSI	200	2"	77,8	102	42,9	90	20	13,5	M 12 x 45	7/16" x 1.1/2"
AFC 110	3000 PSI	160	2.1/2"	88,9	114	50,8	105	20	13,5	M 12 x 45	7/16" x 1.1/2"
AFC 112	3000 PSI	138	3"	106,4	134	61,9	124	24	17,5	M 16 x 50	5/8" x 2"
AFC 114	3000 PSI	35	3.1/2"	120,7	152	69,9	136	22	17,5	M 16 x 50	5/8" x 2"
AFC 116	3000 PSI	35	4"	130,2	162	77,8	146	25	17,5	M 16 x 50	5/8" x 2"
AFC 118	3000 PSI	35	5"	152,4	190	92,1	170	28	17,5	M 16 x 50	5/8" x 2"
AFC 401	6000 PSI	400	1/2"	40,5	56	18,2	48	16	9,0	M 8 x 30	5/16" x 1.1/4"
AFC 402	6000 PSI	400	3/4"	50,8	71	23,8	60	19	11,0	M 10 x 35	3/8" x 1.1/2"
AFC 403	6000 PSI	400	1"	57,2	81	27,8	70	24	13,0	M 12 x 45	7/16" x 1.1/2"
AFC 404	6000 PSI	400	1.1/4"	66,7	95	31,8	78	27	*1	M 14 x 45	1/2" x 1.3/4"
AFC 405	6000 PSI	400	1.1/2"	79,4	112	36,5	94	30	17,0	M 16 x 50	5/8" x 2"
AFC 406	6000 PSI	400	2"	96,8	134	44,5	114	28	21,0	M 20 x 65	3/4" x 2.1/2"

PN = Nominal pressure PB = Max. operating pressure

*1) = 15.0 for metric screws; 13.5 for UNC screws

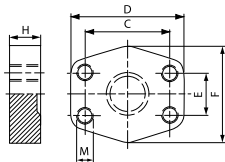
Product versions:

AFC U (3000 / 6000 PSI) - SAE sealing flange, with UNC screw set and O-ring

AFC M (3000 / 6000 PSI) - SAE sealing flange, with metric screw set and O-ring

GFC (3000 / 6000 PSI)

SAE sealing counter flange



- Standard:

Construction:

Design:

Mounting:

Material:

Surface:
- SAE J 518 C, ISO 6162

straight

SAE sealing counter flange

Inner thread for metric screws

S355J2G3 (ST52.3)

black oiled

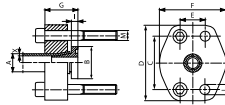
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure series	PB 10.9 bar	Size	C mm	D mm	E mm	F mm	H mm	M metr.
GFC 80	3000 PSI	350	1/2"	38,1	56	17,5	48	16	M 8
GFC 100	3000 PSI	350	3/4"	47,6	65	22,2	50	16	M 10
GFC 102	3000 PSI	315	1"	52,4	70	26,2	60	19	M 10
GFC 104	3000 PSI	250	1.1/4"	58,7	79	30,2	68	18	M 10
GFC 106	3000 PSI	200	1.1/2"	69,9	93	35,7	78	20	M 12
GFC 108	3000 PSI	200	2"	77,8	102	42,9	90	20	M 12
GFC 110	3000 PSI	160	2.1/2"	88,9	114	50,8	105	20	M 12
GFC 112	3000 PSI	138	3"	106,4	134	61,9	124	24	M 16
GFC 114	3000 PSI	35	3.1/2"	120,7	152	69,9	136	22	M 16
GFC 116	3000 PSI	35	4"	130,2	162	77,8	146	25	M 16
GFC 118	3000 PSI	35	5"	152,4	190	92,1	170	28	M 16
GFC 401	6000 PSI	400	1/2"	40,5	56	18,2	48	16	M 8
GFC 402	6000 PSI	400	3/4"	50,8	71	23,8	60	19	M 10
GFC 403	6000 PSI	400	1"	57,2	81	27,8	70	24	M 12
GFC 404	6000 PSI	400	1.1/4"	66,7	95	31,8	78	27	M 14
GFC 405	6000 PSI	400	1.1/2"	79,4	112	36,5	94	30	M 16
GFC 406	6000 PSI	400	2"	96,8	134	44,5	114	28	M 20

PN = Nominal pressure PB = Max. operating pressure

BF (6000 PSI)**SAE flare flange**

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: straight
Design: SAE flare flange
Mounting: with metric screw set
Included in scope of supply: with metric screw set and O-ring
Material: Flange: Steel C 45, flared part: 42CrMo4V
Surface: black oiled

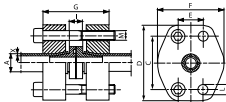


Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	PB 10.9 bar	Size	Ø B mm	C mm	D mm	E mm	F mm	G mm	I mm	L mm	Screws
BF 402-25-3	400	3/4"	38,1	50,8	71	23,8	60	37,5	8,3	11	(4 x) M 10 x 40
BF 402-25-4	400	3/4"	38,1	50,8	71	23,8	60	37,5	8,3	11	(4 x) M 10 x 40
BF 403-30-4	400	1"	47,6	57,2	81	27,8	71	42,5	8,7	13	(4 x) M 12 x 40
BF 403-30-5	400	1"	47,6	57,2	81	27,8	71	42,5	8,7	13	(4 x) M 12 x 40
BF 404-38-5	400	1.1/4"	53,9	66,7	95	31,8	81	44,0	9,2	15	(4 x) M 14 x 45
BF 404-38-6	400	1.1/4"	53,9	66,7	95	31,8	81	44,0	9,2	15	(4 x) M 14 x 45
BF 405-50-6	400	1.1/2"	63,5	79,4	114	36,5	96	57,0	10,3	17	(4 x) M 16 x 60
BF 405-50-8	400	1.1/2"	63,5	79,4	114	36,5	96	57,0	10,3	17	(4 x) M 16 x 60
BF 406-65-8	400	2"	75,2	96,8	134	44,5	114	65,0	11,2	21	(4 x) M 20 x 90
PN = Nominal pressure PB = Max. operating pressure											

BFK (6000 PSI)

SAE flare flange connector



- Pressure series:

Standard:

Construction:

Design:

Mounting:

Included in scope of supply:

Material:

Surface:
- 6000 psi

SAE J 518 C, ISO 6162

straight

SAE flare flange connector with metric screw set

with screw set, flare coupling and O-ring

Flange: Steel C 45, flared part: 42CrMo4V

black oiled

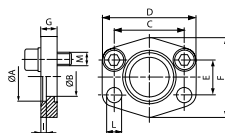
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	PB 10.9 bar	Size	C mm	D mm	E mm	F mm	G mm	I mm	L mm	Screws
BFK 402-25-3	400	3/4"	50,8	71	23,8	60	75	16,5	11	(4 x) M 10 x 60
BFK 402-25-4	400	3/4"	50,8	71	23,8	60	75	16,5	11	(4 x) M 10 x 60
BFK 403-30-4	400	1"	57,2	81	27,8	71	85	17,4	13	(4 x) M 12 x 70
BFK 403-30-5	400	1"	57,2	81	27,8	71	85	17,4	13	(4 x) M 12 x 70
BFK 404-38-5	400	1.1/4"	66,7	95	31,8	81	88	18,4	15	(4 x) M 14 x 80
BFK 404-38-6	400	1.1/4"	66,7	95	31,8	81	88	18,4	15	(4 x) M 14 x 80
BFK 405-50-6	400	1.1/2"	79,4	114	36,5	96	114	20,6	17	(4 x) M 16 x 90
BFK 405-50-8	400	1.1/2"	79,4	114	36,5	96	114	20,6	17	(4 x) M 16 x 90
BFK 406-65-8	400	2"	96,8	134	44,5	114	130	22,4	21	(4 x) M 20 x 120

PN = Nominal pressure PB = Max. operating pressure

AFC S (3000 PSI)**SAE socket weld flange, ND 40**

Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Supplementary design information: ND 40
Construction: straight
Design: SAE socket weld flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



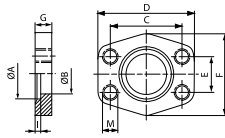
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	Pipe	A mm	Ø B mm	C mm	D mm	E mm	F mm	G mm	I mm	L mm	M metr.
AFC 80 S	40	1/2"	22 x 2	22,5	15	38,1	56	17,5	46	10	3	9,0	M 8 x 25
AFC 100 S	40	3/4"	28 x 2	28,5	20	47,6	65	22,2	50	12	4	11,0	M 10 x 30
AFC 102 S	40	1"	35 x 2	35,5	29	52,4	70	26,2	55	12	4	11,0	M 10 x 30
AFC 104 S	40	1.1/4"	42 x 2	42,5	34	58,7	79	30,2	68	12	4	11,5	M 10 x 30
AFC 106 S	40	1.1/2"	48.3 x 3.25	49,0	42	69,9	93	35,7	78	15	4	13,5	M 12 x 35
AFC 108 S	40	2"	60.3 x 3.65	61,0	53	77,8	102	42,9	90	15	4	13,5	M 12 x 35
AFC 110 S	40	2.1/2"	76.1 x 3.65	77,0	64	88,9	114	50,8	105	15	4	13,5	M 12 x 35
AFC 112 S	40	3"	88.9 x 4.05	90,0	80	106,4	134	61,9	124	20	5	17,5	M 16 x 40
AFC 114 S	35	3.1/2"	101.6 x 4.5	103,0	93	120,7	152	69,9	136	20	5	17,5	M 16 x 40
AFC 116 S	35	4"	114.3 x 4.5	116,0	105	130,2	162	77,8	146	25	6	17,5	M 16 x 45
AFC 118 S	35	5"	139.7 x 4.85	141,0	126	152,4	190	92,1	170	28	8	17,5	M 16 x 45

PN = Nominal pressure PB = Max. operating pressure

Product versions:

AFC S M (3000 PSI) - SAE socket weld flange, ND 40, with metric screw set and O-ring

GFC S (3000 PSI)**SAE socket weld counter flange, ND 40**

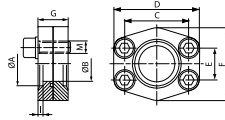
Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Supplementary design information:
Design: ND 40
Construction: straight
Design: SAE socket weld counter flange
Mounting: Inner thread for metric screws
Material: S355J2G3 (ST52.3)
Surface: black oiled

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	PB 10.9 bar	Size	Pipe	A mm	Ø B mm	C mm	D mm	E mm	F mm	G mm	I mm	M metr.
GFC 80 S	40	1/2"	22 x 2	22,5	15	38,1	56	17,5	46	10	3	M 8
GFC 100 S	40	3/4"	28 x 2	28,5	20	47,6	65	22,2	50	12	4	M 10
GFC 102 S	40	1"	35 x 2	35,5	29	52,4	70	26,2	55	12	4	M 10
GFC 104 S	40	1.1/4"	42 x 2	42,5	34	58,7	79	30,2	68	12	4	M 10
GFC 106 S	40	1.1/2"	48.3 x 3.25	42,0	42	69,9	93	35,7	78	15	4	M 12
GFC 108 S	40	2"	60.3 x 3.65	61,0	53	77,8	102	42,9	90	15	4	M 12
GFC 110 S	40	2.1/2"	76.1 x 3.65	77,0	64	88,9	114	50,8	105	15	4	M 12
GFC 112 S	40	3"	88.9 x 4.05	90,0	80	106,4	134	61,9	124	20	5	M 16
GFC 114 S	35	3.1/2"	101.6 x 4.5	103,0	93	120,7	152	69,9	136	20	5	M 16
GFC 116 S	35	4"	114.3 x 4.5	116,0	105	130,2	162	77,8	146	25	6	M 16
GFC 118 S	35	5"	139.7 x 4.85	141,0	126	152,4	190	92,1	170	28	8	M 16
PN = Nominal pressure PB = Max. operating pressure												

DFC S M (3000 PSI)**SAE socket weld flange connector, ND 40**

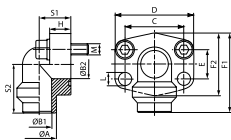
Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Supplementary design information: ND 40
Construction: straight
Design: SAE socket weld flange connector
Mounting: with metric screw set
Included in scope of supply: with metric screw set and O-ring
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	PB 10.9 bar	Size	Pipe	A mm	Ø B mm	C mm	D mm	E mm	F mm	G mm	I mm	M metr.
DFC 100 S M	40	3/4"	28 x 2	28,5	20	47,6	65	22,2	50	24	4	M 10 x 30
DFC 102 S M	40	1"	35 x 2	35,5	29	52,4	70	26,2	55	24	4	M 10 x 30
DFC 104 S M	40	1.1/4"	42 x 2	42,5	34	58,7	79	30,2	68	24	4	M 10 x 30
DFC 106 S M	40	1.1/2"	48.3 x 3.25	49,0	42	69,9	93	35,7	78	30	4	M 12 x 35
DFC 108 S M	40	2"	60.3 x 3.65	61,0	53	77,8	102	42,9	90	30	4	M 12 x 35
DFC 110 S M	40	2.1/2"	76.1 x 3.65	77,0	64	88,9	114	50,8	105	30	4	M 12 x 35
DFC 112 S M	40	3"	88.9 x 4.05	90,0	80	106,4	134	61,9	124	40	5	M 16 x 40
DFC 114 S M	35	3.1/2"	101.6 x 4.5	103,0	93	120,7	152	69,9	136	40	5	M 16 x 40
DFC 116 S M	35	4"	114.3 x 4.5	116,0	105	130,2	162	77,8	146	50	6	M 16 x 45
DFC 118 S M	35	5"	139.7 x 4.85	141,0	126	152,4	190	92,1	170	56	8	M 16 x 45

PN = Nominal pressure PB = Max. operating pressure

AFS 90 SRE (3000 PSI)**SAE welded on flange, angle 90°**

Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Construction: Angle 90°
Design: SAE welded on flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	PB 10.9 bar	Size	Pipe	A mm	B1 mm	B2 mm	C mm	E mm	F1 mm	S1 mm	S2 mm	L mm
AFS 80/90 SRE 20	250	1/2"	20 x 3	20	14	13	38,1	17,5	60	20	37	9,0
AFS 80/90 SRE 22	160	1/2"	22 x 2	22	18	13	38,1	17,5	60	20	37	9,0
AFS 80/90 SRE 25	250	1/2"	25 x 3	25	19	13	38,1	17,5	60	20	37	9,0
AFS 80/90 SRE 28	160	1/2"	28 x 3	28	22	13	38,1	17,5	60	20	37	9,0
AFS 100/90 SRE 25	250	3/4"	25 x 3	25	19	19	47,6	22,3	63	24	38	11,0
AFS 100/90 SRE 28	160	3/4"	28 x 3	28	22	19	47,6	22,3	63	24	38	11,0
AFS 100/90 SRE 30	250	3/4"	30 x 4	30	22	19	47,6	22,3	63	24	38	11,0
AFS 100/90 SRE 35	160	3/4"	35 x 4	35	27	19	47,6	22,3	63	24	38	11,0
AFS 102/90 SRE 30	250	1"	30 x 4	30	22	25	52,4	26,2	70	28	43	11,0
AFS 102/90 SRE 35	160	1"	35 x 4	35	27	25	52,4	26,2	70	28	43	11,0
AFS 102/90 SRE 38	250	1"	38 x 4	38	30	25	52,4	26,2	70	28	43	11,0
AFS 102/90 SRE 42	160	1"	42 x 3	42	36	25	52,4	26,2	70	28	43	11,0
AFS 104/90 SRE 38	250	1.1/4"	38 x 4	38	30	32	58,7	30,2	85	34	51	11,5
AFS 104/90 SRE 42	160	1.1/4"	42 x 3	42	36	32	58,7	30,2	85	34	51	11,5
AFS 104/90 SRE 48	160	1.1/4"	48.3 x 4.5	49	39	32	58,7	30,2	85	34	51	11,5
AFS 106/90 SRE 38	210	1.1/2"	38 x 4	38	30	38	69,9	35,7	95	38	56	13,5
AFS 106/90 SRE 42	160	1.1/2"	42 x 3	42	36	38	69,9	35,7	95	38	56	13,5
AFS 106/90 SRE 48	160	1.1/2"	48.3 x 4.5	49	39	38	69,9	35,7	95	38	56	13,5
AFS 108/90 SRE 60	200	2"	60.3 x 5.6	61	49	51	77,8	42,9	110	42	65	13,5
AFS 108/90 SRE 76	200	2"	76.1 x 7.1	77	62	51	77,8	42,9	110	42	65	13,5

PN = Nominal pressure PB = Max. operating pressure

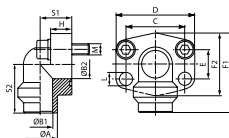
Product versions:

AFS 90 SRE M (3000 / 6000 PSI) - SAE welded on flange, angle 90°, with metric screw set and O-ring

AFS 90 SRE U (3000 / 6000 PSI) - SAE welded on flange, angle 90°, with UNC screw set and O-ring

AFS 90 SRE (6000 PSI)**SAE welded on flange, angle 90°**

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: Angle 90°
Design: SAE welded on flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	PB 10.9 bar	Size	Pipe	A mm	B1 mm	B2 mm	C mm	E mm	F1 mm	S1 mm	S2 mm	L mm
AFS 401/90 SRE 20	315	1/2"	20 x 3	20	14	13	40,5	18,2	60	20	37	9,0
AFS 401/90 SRE 25	315	1/2"	25 x 4	25	17	13	40,5	18,2	60	20	37	9,0
AFS 402/90 SRE 25	315	3/4"	25 x 4	25	17	19	50,8	23,8	70	28	43	11,0
AFS 402/90 SRE 30	315	3/4"	30 x 4	30	22	19	50,8	23,8	70	28	43	11,0
AFS 403/90 SRE 30	315	1"	30 x 4	30	22	25	57,2	27,8	85	34	51	13,0
AFS 403/90 SRE 38	315	1"	38 x 5	38	28	25	57,2	27,8	85	34	51	13,0
AFS 404/90 SRE 38	315	1.1/4"	38 x 5	38	28	32	66,6	31,8	95	38	56	*1
AFS 404/90 SRE 48	315	1.1/4"	48.3 x 8	49	32	32	66,6	31,8	95	38	56	*1
AFS 405/90 SRE 38	315	1.1/2"	38 x 5	38	28	38	79,3	36,5	110	42	65	17,0
AFS 405/90 SRE 48	315	1.1/2"	48.3 x 8	49	32	38	79,3	36,5	110	42	65	17,0
AFS 405/90 SRE 60	315	1.1/2"	60.3 x 10	61	40	38	79,3	36,5	110	42	65	17,0
AFS 406/90 SRE 60	315	2"	60.3 x 10	61	40	51	96,8	44,5	133	45	75	21,0
AFS 406/90 SRE 76	315	2"	76.1 x 12.5	74	50	51	96,8	44,5	150	45	92	21,0

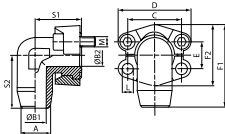
PN = Nominal pressure PB = Max. operating pressure

*1) = 14.5 for metric screws; 13.5 for UNC screws

Product versions:

AFS 90 SRE M (3000 / 6000 PSI) - SAE welded on flange, angle 90°, with metric screw set and O-ring

AFS 90 SRE U (3000 / 6000 PSI) - SAE welded on flange, angle 90°, with UNC screw set and O-ring

WFS (3000 PSI)**SAE flange adapter, welded on, angle 90°**

Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Construction: Angle 90°
Design: SAE flange adapter welded on connecting piece

Included in scope of supply:
Material:
Surface:

flange only
 S355J2G3 (ST52.3)
 black oiled

Note: In accordance with SAE J 518 C, the specified nominal pressure is defined by the flange or based on the pipe to be welded on.

Identification	PB 10.9 bar	Size	A mm	B1 mm	B2 mm	C mm	D mm	E mm	F1 mm	F2 mm	S1 mm	S2 mm	L mm
WFS 3001-15	350	1/2"	15	11	11	38,1	54,0	17,5	60,8	45,6	39	38	8,7
WFS 3001-16	350	1/2"	16	10	10	38,1	54,0	17,5	60,8	45,6	39	38	8,7
WFS 3002-18	350	3/4"	18	15	19	47,6	64,9	22,2	70,9	51,8	42	45	10,7
WFS 3002-20	350	3/4"	20	14	17	47,6	64,9	22,2	70,9	51,8	42	45	10,7
WFS 3002-22	350	3/4"	22	18	19	47,6	64,9	22,2	70,9	51,8	42	45	10,7
WFS 3002-25	350	3/4"	25	17	17	47,6	64,3	22,2	70,9	51,8	42	45	10,7
WFS 3003-25	315	1"	25	19	21	52,4	69,9	26,2	79,2	58,4	45	50	10,7
WFS 3003-28	315	1"	28	24	25	52,4	69,9	26,2	79,2	58,4	45	50	10,7
WFS 3003-30	315	1"	30	21	21	52,4	69,9	26,2	79,2	58,4	45	50	10,7
WFS 3004-25	250	1.1/4"	25	19	27	58,7	79,4	30,2	85,3	72,6	50	59	*1
WFS 3004-30	250	1.1/4"	30	22	27	58,7	79,4	30,2	85,3	72,6	50	50	*1
WFS 3004-35	250	1.1/4"	35	31	32	58,7	79,4	30,2	85,3	72,6	50	59	*1
WFS 3004-38	250	1.1/4"	38	28	27	56,7	79,4	30,2	85,3	72,6	50	59	*1
WFS 3005-38	200	1.1/2"	38	30	32	69,9	93,8	35,7	117,1	82,2	76	76	13,5
WFS 3005-42	200	1.1/2"	42	36	36	69,9	93,8	35,7	117,1	82,2	76	76	13,5

PN = Nominal pressure PB = Max. operating pressure

*1) = Choice of 10.5, 12.0 or 12.5

Product versions:

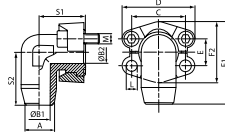
WFS M (3000 / 6000 PSI) - SAE flange adapter, welded on, angle 90°, with 2 flange halves, screw set and O-ring

WFS U (3000 / 6000 PSI) - SAE flange adapter, welded on, angle 90°, with 2 flange halves, screw set and O-ring

WFS (6000 PSI)**SAE flange adapter, welded on, angle 90°**

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: Angle 90°
Design: SAE flange adapter welded on connecting piece

Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: In accordance with SAE J 518 C, the specified nominal pressure is defined by the flange or based on the pipe to be welded on.

Identification	PB 10.9 bar	Size	A mm	B1 mm	B2 mm	C mm	D mm	E mm	F1 mm	F2 mm	S1 mm	S2 mm	L mm
WFS 6001-16	400	1/2"	16	10	10	40,5	56,0	18,2	61,6	47,2	39	38	8,7
WFS 6002-16	400	3/4"	16	10	17	50,8	71,0	23,8	78,0	60,0	48	48	10,7
WFS 6002-20	400	3/4"	20	12	17	50,8	71,0	23,8	78,0	60,0	48	48	10,7
WFS 6002-25	400	3/4"	25	15	17	50,8	71,0	23,8	78,0	60,0	48	48	10,7
WFS 6003-25	400	1"	25	15	20	57,2	81,0	27,8	94,0	69,6	60	60	*1
WFS 6003-30	400	1"	30	22	25	57,2	81,0	27,8	94,0	69,6	60	60	*1
WFS 6004-30	315	1.1/4"	30	22	27	66,7	95,0	31,8	106,6	77,2	68	68	*2
WFS 6004-38	315	1.1/4"	38	28	30	66,7	95,0	31,8	106,6	77,2	68	68	*2
WFS 6005-38	315	1.1/2"	38	28	32	79,4	113,0	36,5	123,5	95,0	76	76	17,0

PN = Nominal pressure PB = Max. operating pressure

*1) = Choice of 12.0 or 12.5

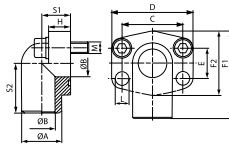
Product versions:

WFS M (3000 / 6000 PSI) - SAE flange adapter, welded on, angle 90°, with 2 flange halves, screw set and O-ring

WFS U (3000 / 6000 PSI) - SAE flange adapter, welded on, angle 90°, with 2 flange halves, screw set and O-ring

AFS 90 ST (3000 PSI)

SAE welded on flange, angle 90°



Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Construction: Angle 90°
Design: SAE welded on flange
Mounting: with metric screw set
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	Ø A mm	Ø B mm	C mm	D mm	E mm	F1 mm	F2 mm	H mm	S1 mm	S2 mm	L mm	M metr.
AFS 200/90 ST	350	3/4"	27,0	19	47,6	70	22,2	63	50	21,0	23,0	41	11,0	M 10 x 40
AFS 202/90 ST	315	1"	34,5	23	52,4	75	26,2	72	60	24,0	25,0	48	11,0	M 10 x 45
AFS 204/90 ST	250	1.1/4"	43,0	31	58,7	86	30,2	82	68	25,0	27,0	54	11,5	M 10 x 45
AFS 206/90 ST	200	1.1/2"	50,0	35	69,9	97	35,7	92	78	29,0	31,5	57	14,0	M 12 x 50
AFS 208/90 ST	200	2"	65,0	48	77,8	100	42,9	99	90	50,0	37,5	63	14,0	M 12 x 70

PN = Nominal pressure PB = Max. operating pressure

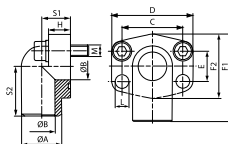
Product versions:

AFS 90 ST M (3000 / 6000 PSI) - SAE welded on flange, angle 90°, with metric screw set and O-ring

AFS 90 ST (6000 PSI)

SAE welded on flange, angle 90°

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: Angle 90°
Design: SAE welded on flange
Mounting: with metric screw set
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



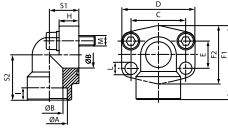
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	Ø A mm	Ø B mm	C mm	D mm	E mm	F1 mm	F2 mm	H mm	S1 mm	S2 mm	L mm	M metr.
AFS 700/90 ST	400	3/4"	28,0	19	50,8	71	23,8	70	60	19,0	22,0	40	11,0	M 10 x 35
AFS 702/90 ST	400	1"	35,0	25	57,2	81	27,8	82	70	24,0	27,0	47	13,0	M 10 x 45
AFS 704/90 ST	375	1.1/4"	42,0	32	66,7	95	31,8	95	78	27,0	32,0	56	15,0	M 14 x 50
AFS 706/90 ST	320	1.1/2"	48,0	38	79,4	113	36,5	115	94	30,0	40,0	68	17,0	M 16 x 60

PN = Nominal pressure PB = Max. operating pressure

Product versions:

AFS 90 ST M (3000 / 6000 PSI) - SAE welded on flange, angle 90°, with metric screw set and O-ring

AFS 90 S (3000 PSI)**SAE socket weld flange, angle 90**

Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Construction: Angle 90°
Design: SAE socket weld flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	Ø A mm	Ø B mm	C mm	E mm	F1 mm	I mm	S1 mm	S2 mm	L mm	M metr.	M unc
AFS 80/90 S	350	1/2"	21,6	13	38,1	17,5	60	10	20	37	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 80/90 S 038	350	1/2"	17,5	13	38,1	17,5	60	10	20	37	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 100/90 S	350	3/4"	27,2	19	47,6	22,2	63	10	24	38	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 102/90 S	315	1"	35,0	25	52,4	26,2	70	12	28	43	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 104/90 S	250	1.1/4"	42,8	32	58,7	30,2	85	14	34	51	11,5	M 10 x 40	7/16" x 1.1/2"
AFS 106/90 S	200	1.1/2"	48,6	38	69,9	35,7	95	16	38	56	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 108/90 S	200	2"	61,0	51	77,8	42,9	110	18	42	65	13,5	M 12 x 45	5/8" x 2"
PN = Nominal pressure PB = Max. operating pressure													

Product versions:

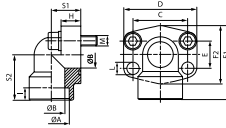
AFS 90 S M (3000 / 6000 PSI) - SAE socket weld flange, angle 90, with metric screw set and O-ring

AFS 90 S U (3000 / 6000 PSI) - SAE socket weld flange, angle 90, with UNC screw set and O-ring

AFS 90 S (6000 PSI)

SAE socket weld flange, angle 90

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: Angle 90°
Design: SAE socket weld flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	Ø A mm	Ø B mm	C mm	E mm	F1 mm	I mm	S1 mm	S2 mm	L mm	M metr.	M unc
AFS 401/90 S	400	1/2"	21,6	13	40,5	18,2	60	10	20	37	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 401/90 S 038	400	1/2"	17,5	13	40,5	18,2	60	10	20	37	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 402/90 S	400	3/4"	27,2	19	50,8	23,8	70	12	28	43	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 403/90 S	400	1"	35,0	25	57,2	27,8	85	14	34	51	13,0	M 12 x 45	7/16" x 1.3/4"
AFS 404/90 S	400	1.1/4"	42,8	32	66,7	31,8	95	16	38	56	*1	M 14 x 50	1/2" x 1.3/4"
AFS 405/90 S	400	1.1/2"	48,6	38	79,4	36,5	110	18	42	65	17,5	M 16 x 50	5/8" x 2"
AFS 406/90 S	400	2"	61,0	51	96,8	44,5	150	18	60	92	21,0	M 20 x 110	

PN = Nominal pressure PB = Max. operating pressure

*1) = 15.0 for metric screws; 13.5 for UNC screws

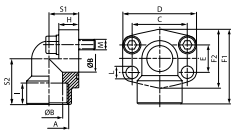
Product versions:

AFS 90 S M (3000 / 6000 PSI) - SAE socket weld flange, angle 90, with metric screw set and O-ring

AFS 90 S U (3000 / 6000 PSI) - SAE socket weld flange, angle 90, with UNC screw set and O-ring

AFS 90 G (3000 PSI)

SAE screw-in flange, BSP, angle 90°



- Pressure series: 3000 psi
- Standard: SAE J 518 C, ISO 6162
- Construction: Angle 90°
- Design: SAE screw-in flange
- Mounting: Screw bore hole
- Included in scope of supply: flange only
- Material: S355J2G3 (ST52.3)
- Surface: black oiled

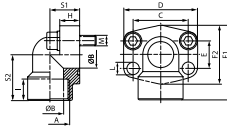
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	ØB mm	C mm	E mm	F1 mm	I mm	S1 mm	S2 mm	L mm	M metr.	M unc
AFS 80/90 G	350	1/2"	G 1/2" -14	13	38,1	17,5	60	19	20	37	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 80/90 G 038	350	1/2"	G 3/8" -19	13	38,1	17,5	60	19	20	37	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 100/90 G	350	3/4"	G 3/4" -14	19	47,6	22,2	63	19	24	38	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 102/90 G	315	1"	G 1" -11	25	52,4	26,2	70	20	28	43	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 104/90 G	250	1.1/4"	G 1.1/4" -11	32	58,7	30,2	85	22	34	51	11,5	M 10 x 40	7/16" x 1.1/2"
AFS 106/90 G	200	1.1/2"	G 1.1/2" -11	38	69,9	35,7	95	25	38	56	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 108/90 G	200	2"	G 2" -11	51	77,8	42,9	110	28	42	65	13,5	M 12 x 45	5/8" x 2"
PN = Nominal pressure PB = Max. operating pressure													

- Product versions:**
- AFS 90 G M (3000 / 6000 PSI) - SAE screw-in flange, BSP, angle 90°, with metric screw set and O-ring
 - AFS 90 G U (3000 / 6000 PSI) - SAE screw-in flange, BSP, angle 90°, with UNC screw set and O-ring

AFS 90 G (6000 PSI)**SAE screw-in flange, BSP, angle 90°**

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: Angle 90°
Design: SAE screw-in flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	Ø B mm	C mm	E mm	F1 mm	I mm	S1 mm	S2 mm	L mm	M metr.	M unc
AFS 401/90 G 012	400	1/2"	G 1/2" -14	13	40,5	18,2	60	19	20	37	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 401/90 G 038	400	1/2"	G 3/8" -19	13	40,5	18,2	60	19	20	37	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 402/90 G	400	3/4"	G 3/4" -14	19	50,8	23,8	70	20	28	43	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 403/90 G	400	1"	G 1" -11	25	57,2	27,8	85	22	34	51	13,0	M 12 x 45	7/16" x 1.3/4"
AFS 404/90 G	400	1.1/4"	G 1.1/4" -11	32	66,7	31,8	95	25	38	56	*1	M 14 x 50	1/2" x 1.3/4"
AFS 405/90 G	400	1.1/2"	G 1.1/2" -11	38	79,4	36,5	110	28	42	65	17,0	M 16 x 50	5/8" x 2"
AFS 406/90 G	400	2"	G 2" -11	51	96,8	44,5	132	33	45	75	21,0	M 20 x 70	

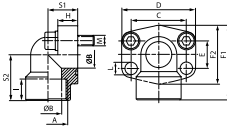
PN = Nominal pressure PB = Max. operating pressure

*1) = 15.0 for metric screws; 13.5 for UNC screws

Product versions:

AFS 90 G M (3000 / 6000 PSI) - SAE screw-in flange, BSP, angle 90°, with metric screw set and O-ring

AFS 90 G U (3000 / 6000 PSI) - SAE screw-in flange, BSP, angle 90°, with UNC screw set and O-ring

AFS 90 N (3000 PSI)**SAE screw-in flange, NPT, angle 90°**

Pressure series: 3000 psi
Standard: SAE J 518 C, ISO 6162
Construction: Angle 90°
Design: SAE screw-in flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	Ø B mm	C mm	E mm	F1 mm	H mm	I mm	S1 mm	S2 mm	L mm	M metr.	M unc
AFS 80/90 N	350	1/2"	NPT 1/2" -14	13	38,1	17,5	60	16	19	20	37	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 80/90 N 038	350	1/2"	NPT 3/8" -18	13	38,1	17,5	60	16	19	20	37	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 100/90 N	350	3/4"	NPT 3/4" -14	19	47,6	22,2	63	18	19	24	38	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 102/90 N	315	1"	NPT 1" -11.5	25	52,4	26,2	70	19	20	28	43	11,0	M 10 x 35	5/16" x 1.1/4"
AFS 104/90 N	250	1.1/4"	NPT 1.1/4" -11.5	32	58,7	30,2	85	21	22	34	51	11,5	M 10 x 40	7/16" x 1.1/2"
AFS 106/90 N	200	1.1/2"	NPT 1.1/2" -11.5	38	69,9	35,7	95	25	25	38	56	13,5	M 12 x 45	1/2" x 1.3/4"
AFS 108/90 N	200	2"	NPT 2" -11.5	51	77,8	42,9	110	25	28	42	65	13,5	M 12 x 45	5/8" x 2"
PN = Nominal pressure PB = Max. operating pressure														

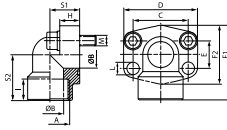
Product versions:

AFS 90 N M (3000 / 6000 PSI) - SAE screw-in flange, NPT, angle 90°, with metric screw set and O-ring

AFS 90 N U (3000 / 6000 PSI) - SAE screw-in flange, NPT, angle 90°, with UNC screw set and O-ring

AFS 90 N (6000 PSI)**SAE screw-in flange, NPT, angle 90°**

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: Angle 90°
Design: SAE screw-in flange
Mounting: Screw bore hole
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: black oiled



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	Ø B mm	C mm	E mm	F1 mm	H mm	I mm	S1 mm	S2 mm	L mm	M metr.	M unc
AFS 401/90 N	400	1/2"	NPT 1/2" -14	13	40,5	18,2	60	16	19	20	37	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 401/90 N 038	400	1/2"	NPT 3/8" -18	13	40,5	18,2	60	16	19	20	37	9,0	M 8 x 30	5/16" x 1.1/4"
AFS 402/90 N	400	3/4"	NPT 3/4" -14	19	50,8	23,8	70	19	20	28	43	11,0	M 10 x 35	3/8" x 1.1/2"
AFS 403/90 N	400	1"	NPT 1" -11.5	25	57,2	27,8	85	21	22	34	51	13,0	M 12 x 45	7/16" x 1.3/4"
AFS 404/90 N	400	1.1/4"	NPT 1.1/4" -11.5	32	66,7	31,8	95	25	25	38	56	*1	M 14 x 45	1/2" x 1.3/4"
AFS 405/90 N	400	1.1/2"	NPT 1.1/2" -11.5	38	79,4	36,5	110	25	28	42	65	17,0	M 16 x 50	5/8" x 2"

PN = Nominal pressure PB = Max. operating pressure

*1) = 15.0 for metric screws; 13.5 for UNC screws

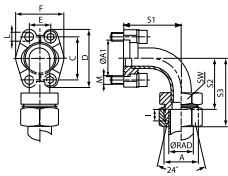
Product versions:

AFS 90 N M (3000 / 6000 PSI) - SAE screw-in flange, NPT, angle 90°, with metric screw set and O-ring

AFS 90 N U (3000 / 6000 PSI) - SAE screw-in flange, NPT, angle 90°, with UNC screw set and O-ring

SFCE 90 (3000 PSI)

SAE flange adapter, soldered



Pressure series: 3000 psi
Standard: DIN 3901/3902
Supplementary design information: soldered
Construction: Angle 90°
Design: SAE flange adapter
Included in scope of supply: connecting piece only
Material: S355J2G3 (C22)
Surface: electro galvanised

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

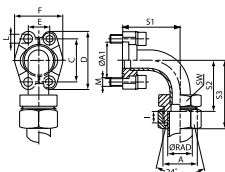
Identification	Series	Ø RAD mm	PB 10.9 bar	Size	A	A1 mm	I mm	S1 mm	S2 mm	S3 mm	SW mm	L mm	M metr.	M unc
SFCE 3001-90 L15	L	15	315	1/2"	M22x1,5	30,2	7,0	40	43,0	58	22	8,7	M 8 x 30	5/16" x 1.1/4"
SFCE 3001-90 S16	L	16	350	1/2"	M24x1,5	30,2	7,5	40	42,5	60	24	8,7	M 8 x 30	5/16" x 1.1/4"
SFCE 3002-90 L22	L	22	160	3/4"	M30x2	38,1	7,5	59	63,5	80	30	10,7	M 10 x 35	3/8" x 1.1/2"
SFCE 3003-90 L28	L	28	160	1"	M36x2	44,4	7,5	68	75,5	80	36	10,7	M 10 x 35	3/8" x 1.1/2"
SFCE 3003-90 S25	L	25	315	1"	M36x2	44,4	12,0	68	71,0	95	36	10,7	M 10 x 35	3/8" x 1.1/2"
SFCE 3003-90 S30	L	30	315	1"	M42x2	44,4	13,5	68	69,5	96	46	10,7	M 10 x 35	3/8" x 1.1/2"
SFCE 3004-90 L35	L	35	160	1.1/4"	M45x2	50,8	10,5	86	94,5	116	46	*1	*2	7/16" x 1.1/2"
SFCE 3005-90 L42	L	42	160	1.1/2"	M52x2	60,3	11,0	98	104,0	127	55	13,5	M 12 x 35	1/2" x 1.1/2"
SFCE 3005-90 S38	L	38	210	1.1/2"	M52x2	60,3	16,0	98	99,0	130	55	13,5	M 12 x 35	1/2" x 1.1/2"
Series: LL = Very light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø RAD = External pipe diameter														
*1) = Choice of 10,5, 12,0 or 12,5														

Product versions:
SFCE 90 M (3000 / 6000 PSI) - SAE flange adapter, soldered, with 2 flange halves, screw set and O-ring
SFCE 90 U (3000 / 6000 PSI) - SAE flange adapter, soldered, with 2 flange halves, screw set and O-ring

SFCE 90 (6000 PSI)

SAE flange adapter, soldered

Pressure series: 6000 psi
Standard: DIN 3901/3902
Supplementary design information: soldered
Construction: Angle 90°
Design: SAE flange adapter
Included in scope of supply: connecting piece only
Material: S355J2G3 (C22)
Surface: electro galvanised



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	Series	Ø RAD mm	PB 10.9 bar	Size	A	A1 mm	I mm	S1 mm	S2 mm	S3 mm	SW mm	L mm	M metr.	M unc
SFCE 6002-90 S25	S	25	400	3/4"	M36x2	41,3	12,0	62	59,0	83	36	10,7	M 10 x 35	3/8" x 1.1/2"
SFCE 6002-90 S30	S	30	400	3/4"	M42x2	41,3	13,5	62	57,5	84	46	10,7	M 10 x 35	3/8" x 1.1/2"
SFCE 6003-90 S25	S	25	400	1"	M36x2	47,6	12,0	74	73,0	97	36	*1	M 12 x 45	7/16" x 1.3/4"
SFCE 6003-90 S30	S	30	400	1"	M42x2	47,6	13,5	74	71,5	98	46	*1	M 12 x 45	7/16" x 1.3/4"
SFCE 6004-90 S38	S	38	315	1.1/4"	M52x2	54,0	16,0	96	91,0	122	55	*2	M 14 x 50	1/2" x 1.3/4"
SFCE 6005-90 S38	S	38	315	1.1/2"	M52x2	63,5	16,0	111	91,0	122	55	17,0	M 16 x 55	5/8" x 2"

Series: LL = Very light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø RAD = External pipe diameter

*1) = Choice of 12.0 or 12.5

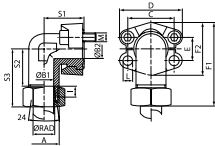
Product versions:

SFCE 90 M (3000 / 6000 PSI) - SAE flange adapter, soldered, with 2 flange halves, screw set and O-ring

SFCE 90 U (3000 / 6000 PSI) - SAE flange adapter, soldered, with 2 flange halves, screw set and O-ring

WFG (6000 PSI)

SAE flange adapter, forged



Pressure series: 6000 psi
Standard: DIN 3901/3902
Supplementary design information: forged
Construction: Angle 90°
Design: SAE flange adapter
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: electro galvanised

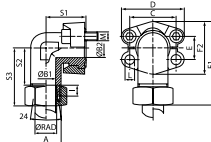
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	Series	Ø RAD mm	PB 10.9 bar	Size	A	B1 mm	B2 mm	F1 mm	I mm	S1 mm	S2 mm	S3 mm	L mm	M metr.
WFG 6001/S 16	S	16	400	1/2"	M24x1,5	12	12	71,6	8,5	39	29,4	48	8,7	M 8 x 30
WFG 6002/S 16	S	16	400	3/4"	M24x1,5	12	17	85,0	8,5	48	36,5	55	10,7	M 10 x 35
WFG 6002/S 20	S	20	400	3/4"	M30x2	16	17	87,0	10,5	48	35,5	57	10,7	M 10 x 35
WFG 6002/S 25	S	25	400	3/4"	M36x2	17	17	90,0	12,0	48	36,0	60	10,7	M 10 x 35
WFG 6003/S 25	S	25	400	1"	M36x2	20	24	99,8	12,0	60	41,0	65	13,0	M 12 x 45
WFG 6003/S 30	S	30	400	1"	M42x2	24	24	102,9	13,5	60	41,5	68	13,0	M 12 x 45
WFG 6004/S 30	S	30	400	1.1/4"	M42x2	25	31	109,6	13,5	68	44,5	71	14,7	M 14 x 50
WFG 6004/S 38	S	38	350	1.1/4"	M52x2	28	31	114,6	16,0	68	45,0	76	14,7	M 14 x 50
WFG 6005/S 38	S	38	350	1.1/2"	M52x2	30	36	134,5	16,0	76	56,0	87	17,0	M 16 x 55
Series: LL = Very light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø RAD = External pipe diameter														

Product versions:
WFG M (3000 / 6000 PSI) - SAE flange adapter, forged, with 2 flange halves, screw set and O-ring

WFG (3000 PSI)**SAE flange adapter, forged**

Pressure series: 3000 psi
Standard: DIN 3901/3902
Supplementary design information: forged
Construction: Angle 90°
Design: SAE flange adapter
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: electro galvanised



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

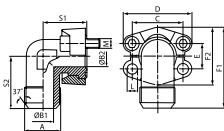
Identification	Series	Ø RAD mm	PB 10.9 bar	Size	A	B1 mm	B2 mm	F1 mm	I mm	S1 mm	S2 mm	S3 mm	L mm	M metr.
WFG 3001/L 15	L	15	315	1/2"	M22x1,5	12	11	66,8	7,0	39	29,0	44	8,7	M 8 x 25
WFG 3002/L 18	L	18	315	3/4"	M26x1,5	15	19	73,9	7,5	42	31,5	48	10,7	M 10 x 35
WFG 3002/L 22	L	22	160	3/4"	M30x2	19	19	75,9	7,5	42	33,5	50	10,7	M 10 x 35
WFG 3003/L 28	L	28	160	1"	M36x2	24	25	82,2	7,5	45	36,5	53	10,7	M 10 x 35
WFG 3004/L 35	L	35	160	1.1/4"	M45x2	30	27	104,3	10,5	50	46,5	68	*1	*2
WFG 3005/L 42	L	42	160	1.1/2"	M52x2	36	36	118,2	11,0	55	47,0	57	13,5	M 12 x 40
WFG 3001/S 16	S	16	350	1/2"	M24x1,5	12	11	70,8	8,5	39	29,5	48	8,7	M 8 x 25
WFG 3002/S 20	S	20	350	3/4"	M30x2	16	19	79,9	10,5	42	32,5	54	10,7	M 10 x 35
WFG 3002/S 25	S	25	350	3/4"	M36x2	17	19	82,9	12,0	42	33,0	57	10,7	M 10 x 35
WFG 3003/S 25	S	25	315	1"	M36x2	20	25	91,2	12,0	45	38,0	62	10,7	M 10 x 35
WFG 3003/S 30	S	30	315	1"	M42x2	24	25	92,2	13,5	45	36,5	63	10,7	M 10 x 35
WFG 3004/S 25	S	25	250	1.1/4"	M36x2	20	27	103,3	12,0	50	43,0	67	*1	*2
WFG 3004/S 30	S	30	250	1.1/4"	M42x2	25	27	106,3	13,5	50	43,5	70	*1	*2
WFG 3004/S 38	S	38	250	1.1/4"	M52x2	28	27	110,3	16,0	50	43,0	74	*1	*2
WFG 3005/S 38	S	38	200	1.1/2"	M52x2	32	36	128,2	16,0	55	48,0	58	13,5	M 12 x 40

Series: LL = Very light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø RAD = External pipe diameter

*1) = Choice of 10.5 or 12.5

Product versions:

WFG M (3000 / 6000 PSI) - SAE flange adapter, forged, with 2 flange halves, screw set and O-ring

WFG JIC (3000 PSI)**SAE flange adapter, forged**

Pressure series:	3000 psi
Standard:	SAE J 518 C, ISO 6162
Supplementary design information:	forged
Construction:	Angle 90°
Design:	SAE flange adapter
Included in scope of supply:	flange only
Material:	S355J2G3 (ST52.3)
Surface:	electro galvanised

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	B1 mm	B2 mm	E mm	F1 mm	S1 mm	S2 mm	L mm	M metr.	M unc
WFG 3001 JIC 3/4	350	1/2"	UNF 3/4" -16	9,9	13	17,5	60,8	38	38	8,7	M 8 x 25	5/16" x 1.1/4"
WFG 3001 JIC 7/8	350	1/2"	UNF 7/8" -14	12,3	13	17,5	60,8	38	38	8,7	M 8 x 25	5/16" x 1.1/4"
WFG 3002 JIC 1 1/16	350	3/4"	UNF 1 1/16" -12	15,5	19	22,2	70,9	42	45	10,7	M 10 x 30	3/8" x 1.1/2"
WFG 3002 JIC 1 5/16	350	3/4"	UN 1.5/16" -12	21,5	19	22,2	70,9	42	45	10,7	M 10 x 30	3/8" x 1.1/2"
WFG 3002 JIC 7/8	350	3/4"	UNF 7/8" -14	12,3	19	22,2	70,9	42	45	10,7	M 10 x 30	3/8" x 1.1/2"
WFG 3003 JIC 1 1/16	315	1"	UNF 1 1/16" -12	15,5	24	26,2	79,2	45	50	10,7	M 10 x 30	3/8" x 1.1/2"
WFG 3003 JIC 1 5/16	315	1"	UN 1.5/16" -12	21,5	24	26,2	79,2	45	50	10,7	M 10 x 30	3/8" x 1.1/2"
WFG 3003 JIC 1 5/8	315	1"	UN 1.5/8" -12	27,5	24	26,2	79,2	45	50	10,7	M 10 x 30	3/8" x 1.1/2"
WFG 3004 JIC 1 5/16	250	1.1/4"	UN 1.5/16" -12	21,5	31	30,2	85,3	50	59	*1	*2	7/16" x 1.1/2"
WFG 3004 JIC 1 5/8	250	1.1/4"	UN 1.5/8" -12	27,5	31	30,2	85,3	50	59	*1	*2	7/16" x 1.1/2"
WFG 3005 JIC 1 5/8	200	1.1/2"	UN 1.5/8" -12	27,5	38	35,7	117,1	76	76	13,5	M 12 x 35	1/2" x 1.1/2"
WFG 3005 JIC 1 7/8	200	1.1/2"	UN 1.7/8" -12	33,0	38	35,7	117,1	76	76	13,5	M 12 x 35	1/2" x 1.1/2"

PN = Nominal pressure PB = Max. operating pressure

*1) = Choice of 10.5, 12.0 or 12.5

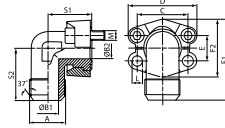
Product versions:

WFG JIC U (3000 / 6000 PSI) - SAE flange adapter, forged, with 2 flange halves, screw set and O-ring

WFG JIC M (3000 / 6000 PSI) - SAE flange adapter, forged, with 2 flange halves, screw set and O-ring

WFG JIC (6000 PSI)**SAE flange adapter, forged**

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Supplementary design information:
Construction: forged
Design: Angle 90°
Included in scope of supply: flange only
Material: S355J2G3 (ST52.3)
Surface: electro galvanised



Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	PB 10.9 bar	Size	A	B1 mm	B2 mm	E mm	F1 mm	S1 mm	S2 mm	L mm	M metr.	M unc
WFG 6001 JIC 3/4	400	1/2"	UNF 3/4" -16	9,9	13	18,2	61,6	39	38	8,7	M 8 x 30	5/16" x 1.1/4"
WFG 6001 JIC 7/8	400	1/2"	UNF 7/8" -14	12,3	13	18,2	61,6	39	38	8,7	M 8 x 35	5/16" x 1.1/4"
WFG 6002 JIC 1 1/16	400	3/4"	UNF 1 1/16" -12	15,5	17	23,8	78,0	48	48	10,7	M 10 x 35	3/8" x 1.1/2"
WFG 6002 JIC 1 5/16	400	3/4"	UN 1.5/16" -12	21,5	17	23,8	78,0	48	48	10,7	M 10 x 35	3/8" x 1.1/2"
WFG 6002 JIC 7/8	400	3/4"	UNF 7/8" -14	12,3	17	23,8	78,0	48	48	10,7	M 10 x 35	3/8" x 1.1/2"
WFG 6003 JIC 1 1/16	400	1"	UNF 1 1/16" -12	15,5	24	27,8	99,0	60	60	*1	M 12 x 45	7/16" x 1.3/4"
WFG 6003 JIC 1 5/16	400	1"	UN 1.5/16" -12	21,5	24	27,8	99,0	60	60	*1	M 12 x 45	7/16" x 1.3/4"
WFG 6003 JIC 1 5/8	400	1"	UN 1.5/8" -12	27,5	24	27,8	99,0	60	60	*1	M 12 x 45	7/16" x 1.1/2"
WFG 6004 JIC 1 5/16	400	1.1/4"	UN 1.5/16" -12	21,5	30	31,8	115,5	68	68	*2	M 14 x 50	1/2" x 1.3/4"
WFG 6004 JIC 1 5/8	400	1.1/4"	UN 1.5/8" -12	27,5	30	31,8	115,5	68	68	*2	M 14 x 50	1/2" x 1.3/4"
WFG 6004 JIC 1 7/8	400	1.1/4"	UN 1.7/8" -12	33,0	30	31,8	115,5	68	68	*2	M 14 x 50	1/2" x 1.3/4"
WFG 6005 JIC 1 5/8	400	1.1/2"	UN 1.5/8" -12	27,5	32	36,5	133,0	76	76	17,0	M 16 x 55	5/8" x 2"
WFG 6005 JIC 1 7/8	400	1.1/2"	UN 1.7/8" -12	33,0	32	36,5	133,0	76	76	17,0	M 16 x 55	5/8" x 2"

PN = Nominal pressure PB = Max. operating pressure

*1) = Choice of 12.0 or 12.5

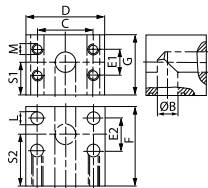
Product versions:

WFG JIC U (3000 / 6000 PSI) - SAE flange adapter, forged, with 2 flange halves, screw set and O-ring

WFG JIC M (3000 / 6000 PSI) - SAE flange adapter, forged, with 2 flange halves, screw set and O-ring

GD (3000 / 6000 PSI)

SAE block flange, angle 90°



- Standard: SAE J 518 C, ISO 6162
- Construction: Angle 90°
- Design: SAE block flange
- Mounting: Inner thread for metric screws
- Material: S355J2G3 (ST52.3)
- Surface: black oiled

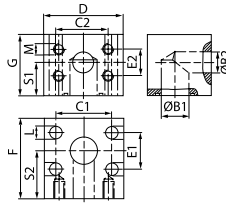
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure series	PB 10.9 bar	Size	Ø B mm	C mm	D mm	E1 mm	E2 mm	F mm	G mm	L mm	S1 mm	S2 mm	M metr.
GD 304	3000 PSI	250	1.1/4"	32	58,7	82	30,2	30,2	82	80	13,0	39	38	M 10
GD 305	3000 PSI	200	1.1/2"	38	69,9	98	35,7	35,7	92	92	13,5	51	59	M 12
GD 306	3000 PSI	200	2"	46	77,8	102	42,9	42,9	85	87	14,0	51	48	M 12
GD 602	6000 PSI	400	3/4"	19	50,8	72	23,8	23,8	60	55	11,0	32	36	M 10
GD 603	6000 PSI	400	1"	23	57,2	82	27,8	27,8	68	64	14,0	37	40	M 12
GD 604	6000 PSI	400	1.1/4"	30	66,7	96	31,8	31,8	76	72	16,0	41	46	M 14
GD 605	6000 PSI	400	1.1/2"	38	79,4	114	36,5	36,5	86	89	18,0	50	52	M 16
GD 606	6000 PSI	400	2"	50	96,8	133	44,5	44,5	110	105	21,0	59	70	M 20

PN = Nominal pressure PB = Max. operating pressure

SAE block flange reduction, angle 90°

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: Angle 90°
Design: SAE block flange reduction
Mounting: Inner thread for metric screws
Material: S355J2G3 (ST52.3)
Surface: electro galvanised



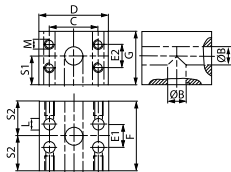
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	PB 10.9 bar	Size	B1 mm	B2 mm	C1 mm	C2 mm	D mm	E1 mm	E2 mm	F mm	G mm	L mm	S1 mm	S2 mm	M metr.
RED GD 603-602	400	1"	23	19	57,2	50,8	82	27,8	23,8	68	64	14	37	40	M 10
RED GD 604-602	400	1.1/4"	30	19	66,7	50,8	96	31,8	23,8	76	72	16	41	46	M 10
RED GD 604-603	400	1.1/4"	30	23	66,7	57,2	96	31,8	27,8	76	72	16	41	46	M 12
RED GD 605-604	400	1.1/2"	38	30	79,4	66,7	114	36,5	31,8	86	89	19	50	52	M 14
RED GD 606-605	400	2"	50	38	96,8	79,4	133	44,5	36,5	110	110	22	59	70	M 16

PN = Nominal pressure PB = Max. operating pressure

T-GD

SAE block flange, T shaped



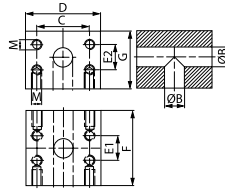
- Pressure series: 6000 psi
- Standard: SAE J 518 C, ISO 6162
- Construction: T shaped
- Design: SAE block flange
- Mounting: Inner thread for metric screws
- Material: S355J2G3 (ST52.3)
- Surface: electro galvanised

Identification	PB 10.9 bar	Size	Ø B mm	C mm	D mm	E1 mm	E2 mm	F mm	G mm	S1 mm	S2 mm	L mm	M metr.
T GD 602-602	400	3/4"	19	50,8	72	23,8	23,8	72	55	32	36	11	M 10
T GD 603-603	400	1"	23	57,2	82	27,8	27,8	80	64	37	40	14	M 12
T GD 604-604	400	1.1/4"	30	66,7	100	31,8	31,8	92	72	41	46	16	M 14
T GD 605-605	400	1.1/2"	38	79,4	114	36,5	36,5	104	89	50	52	18	M 16
T GD 606-606	400	2"	50	96,8	133	44,5	44,5	140	105	59	70	22	M 20

PN = Nominal pressure PB = Max. operating pressure

T BL**SAE block flange, T shaped**

Pressure series: 6000 psi
Standard: SAE J 518 C, ISO 6162
Construction: T shaped
Design: SAE block flange
Mounting: Inner thread for metric screws
Material: S355J2G3 (ST52.3)

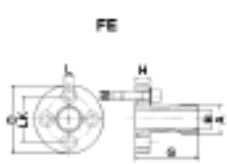


Identification	PB 10.9 bar	Size	Ø B mm	C mm	D mm	E1 mm	E2 mm	F mm	G mm	M metr.
T BL 602-602	400	3/4"	19	50,8	72	23,8	23,8	72	55	M 10
T BL 603-603	400	1"	23	57,2	82	27,8	27,8	82	64	M 12
T BL 604-604	400	1.1/4"	30	66,7	100	31,8	31,8	92	72	M 14
T BL 605-605	400	1.1/2"	38	79,4	110	36,5	36,5	98	98	M 16
T BL 606-606	400	2"	50	96,8	133	44,5	44,5	140	105	M 20

PN = Nominal pressure PB = Max. operating pressure

FE

Pump connection (4 hole)



Design: Pump connection (4 hole)
Construction: straight
Mounting: with metric screw set
Included in scope of supply: with screw set and O-ring
Material: Steel ST 42.3
Surface: electro galvanised

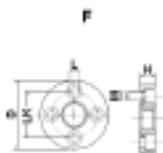
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure PB bar	LK mm	A	Ø B mm	D mm	G mm	H mm	L mm	Screws	OR
FE 1	250	30	G 1/2" -14	14	45	55	10	6,5	(4 x) M 6 x 20	18.77 x 1.78
FE 2	250	40	G 3/4" -14	19	58	60	12	8,5	(4 x) M 8 x 25	25.12 x 1.78
FE 3 A	250	51	G 1" -11	24	76	72	16	10,5	(4 x) M 10 x 30	31.42 x 2.62
FE 3 B	250	56	G 1" -11	24	76	72	16	10,5	(4 x) M 10 x 30	31.42 x 2.62

PN = Nominal pressure PB = Max. operating pressure

Pump connection (4 hole)

Design: Pump connection (4 hole)
Construction: straight
Mounting: with metric screw set
Included in scope of supply: with screw set and O-ring
Material: Steel ST 42.3
Surface: electro galvanised



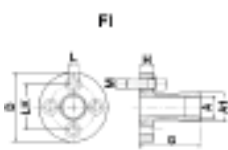
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure PB bar	LK mm	A	D mm	H mm	L mm	Screws	OR
F 1	250	30,0	G 3/8" -19	45	11,5	6,5	(4 x) M 6 x 20	18.77 x 1.78
F 2	250	40,0	G 1/2" -14	58	14,0	8,5	(4 x) M 8 x 25	25.12 x 1.78
F 3 A	250	51,0	G 3/4" -14	76	16,0	10,5	(4 x) M 10 x 30	31.42 x 2.62
F 3 B	250	56,0	G 3/4" -14	76	16,0	10,5	(4 x) M 10 x 30	31.42 x 2.62
F 3.5 A	180	62,0	G 1" -11	88	20,0	10,5	(4 x) M 10 x 35	39.70 x 3.53
F 3.5 B	180	62,0	G 1" -11	88	20,0	12,5	(4 x) M 12 x 35	39.70 x 3.53
F 4	180	72,5	G 1.1/4" -11	98	20,0	12,5	(4 x) M 12 x 35	47.22 x 3.53

PN = Nominal pressure PB = Max. operating pressure

FI (Flansche)

Pump connection (4 hole)



Design: Pump connection (4 hole)
Construction: straight
Mounting: with metric screw set
Included in scope of supply: with screw set and O-ring
Material: Steel ST 42.3
Surface: electro galvanised

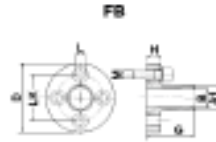
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure PB bar	LK mm	A	A1 mm	D mm	G mm	H mm	L mm	Screws	OR
FI 1	250	30	G 3/8" -19	21,0	45	55	10	6,5	(4 x) M 6 x 20	18.77 x 1.78
FI 2	250	40	G 1/2" -14	26,5	58	60	12	8,5	(4 x) M 8 x 25	25.12 x 1.78
FI 3 A	250	51	G 3/4" -14	33,5	76	72	16	10,5	(4 x) M 10 x 30	31.42 x 2.62
FI 3 B	250	56	G 3/4" -14	33,5	76	72	16	10,5	(4 x) M 10 x 30	31.42 x 2.62

PN = Nominal pressure PB = Max. operating pressure

FB**Pump connection (4 hole)**

Design: Pump connection (4 hole)
Construction: straight
Mounting: with metric screw set
Included in scope of supply: with metric screw set and O-ring
Material: Steel ST 42.3
Surface: electro galvanised



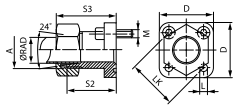
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure PB bar	LK mm	A1 mm	Ø B mm	D mm	G mm	H mm	L mm	Screws	OR
FB 1	250	30	19,0	14,0	45	55	10	6,5	(4 x) M 6 x 20	18.77 x 1.78
FB 2	250	40	25,4	19,0	58	60	12	8,5	(4 x) M 8 x 25	25.12 x 1.78
FB 3 B	250	56	32,0	24,5	76	72	16	10,5	(4 x) M 10 x 35	31.42 x 2.62

PN = Nominal pressure PB = Max. operating pressure

GF LK

Pump connection (4 hole)



Design: Pump connection (4 hole)
Construction: straight
Standard: ISO/DIS 6164
Mounting: with metric screw set
Included in scope of supply: with metric screw set and O-ring
Material: A 105
Surface: electro galvanised

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Series	Ø RAD mm	Pressure PB bar	LK mm	A	Ø B mm	D mm	L mm	S2 mm	S3 mm	Screws	OR
GF 35 LK L 10 315	L	10	315	35	M16x1,5	11	39	6,4	30	39,0	(4 x) M 6 x 22	20.0 x 2.5
GF 35 LK L 12 315	L	12	315	35	M18x1,5	11	39	6,4	30	39,0	(4 x) M 6 x 22	20.0 x 2.5
GF 35 LK L 15 250	L	15	250	35	M22x1,5	12	39	6,4	30	38,0	(4 x) M 6 x 22	20.0 x 2.5
GF 40 LK L 15 100	L	15	100	40	M22x1,5	13	42	6,4	35	43,0	(4 x) M 6 x 22	26.0 x 2.5
GF 40 LK L 18 100	L	18	100	40	M26x1,5	16	42	6,4	35	44,0	(4 x) M 6 x 22	26.0 x 2.5
GF 40 LK L 22 100	L	22	100	40	M30x2	20	42	6,4	35	44,5	(4 x) M 6 x 22	26.0 x 2.5
GF 40 LK L 28 100	L	28	100	40	M36x2	20	42	6,4	35	44,5	(4 x) M 6 x 22	26.0 x 2.5
GF 35 LK S 16 315	S	16	315	35	M24x1,5	12	39	6,4	30	39,5	(4 x) M 6 x 22	20.0 x 2.5
GF 55 LK S 20 250	S	20	250	55	M30x2	14	55	8,4	35	51,0	(4 x) M 8 x 25	32.0 x 2.5

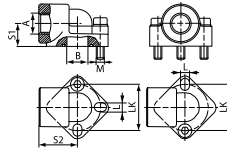
Series: LL = Very light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø RAD = External pipe diameter

Product versions:

GF LK M - Pump connection (4 hole), with screw set, O-ring, nut and cutting ring, A 105

WA**Pump connection (2 hole), angle 90°**

Design: Pump connection (2 hole)
Construction: Angle 90°
Mounting: with metric screw set
Included in scope of supply: with metric screw set and O-ring
Material: Aluminium



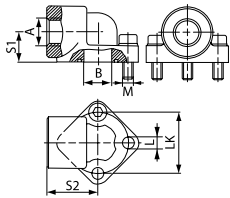
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure PB bar	LK mm	A	Ø B mm	S1 mm	S2 mm	L mm	Screws	OR
WA 3.5 114	120	62,0	G 1.1/4" - 11	32	33,5	57	13	(2 x) M 12 x 35	35.80 x 3.53

PN = Nominal pressure PB = Max. operating pressure

WDS

Pump connection (3 hole), angle 90°



Design: Pump connection (3 hole)
Construction: Angle 90°
Mounting: with metric screw set
Included in scope of supply: with metric screw set and O-ring
Material: Steel ST 42.3
Surface: electro galvanised

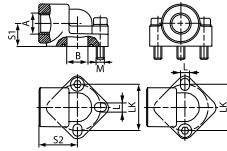
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure PB bar	LK mm	A	B mm	S1 mm	S2 mm	L mm	Screws	OR
WDS 3 B 100	315	56	G 1" -11	26,0	26	45	10,5	(3 x) M 10 x 30	31.42 x 2.62

PN = Nominal pressure PB = Max. operating pressure

WDA**Pump connection (3 hole), angle 90°**

Design: Pump connection (3 hole)
Construction: Angle 90°
Mounting: with metric screw set
Included in scope of supply: with metric screw set and O-ring
Material: Aluminium



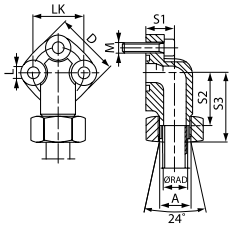
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure PB bar	LK mm	A	B mm	S1 mm	S2 mm	L mm	Screws	OR
WDA 0.5 12	180	26	G 1/2" -14	10,0	18	31	5,3	(3 x) M 5 x 35	14.00 x 1.78
WDA 0.5 38	180	26	G 3/8" -19	10,0	18	31	5,3	(3 x) M 5 x 35	14.00 x 1.78
WDA 1 12	180	30	G 1/2" -14	12,5	18	30	6,5	(3 x) M 6 x 35	15.88 x 2.62
WDA 1 38	180	30	G 3/8" -19	12,5	18	30	6,5	(3 x) M 6 x 35	15.88 x 2.62
WDA 2 12	180	40	G 1/2" -14	18,5	20	40	8,5	(3 x) M 8 x 45	22.22 x 2.62
WDA 2 34	180	40	G 3/4" -14	18,5	20	40	8,5	(3 x) M 8 x 45	22.22 x 2.62
WDA 3 34	180	51	G 3/4" -14	25,0	26	46	10,5	(3 x) M 10 x 60	29.74 x 3.53
WDA 3 100	180	56	G 1" -11	25,0	26	46	10,5	(3 x) M 10 x 60	29.74 x 3.53

PN = Nominal pressure PB = Max. operating pressure

WF LK 3

Pump connection (3 hole), angle 90°



- Design:

Construction:

Mounting:

Included in scope of supply:

Material:

Surface:
- Pump connection (3 hole)

Angle 90°

with metric screw set

with metric screw set and O-ring

Malleable cast iron GTW 40

electro galvanised

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

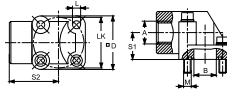
Identification	Series	Ø RAD mm	Pressure PB bar	LK mm	A	D mm	S1 mm	S2 mm	S3 mm	L mm	Screws	OR
WF 30 LK L 12-3	L	12	250	30	M18x1,5	38	19	30,0	46,5	6,4	(3 x) M 6 x 25	16.0 x 2.5
WF 30 LK L 15-3	L	15	250	30	M22x1,5	38	19	30,0	46,0	6,4	(3 x) M 6 x 25	16.0 x 2.5
WF 40 LK L 22-3	L	22	160	40	M30x2	48	25	35,5	52,5	8,4	(3 x) M 8 x 30	24.0 x 2.5
WF 40 LK L 28-3	L	28	160	40	M36x2	48	25	35,5	52,5	8,4	(3 x) M 8 x 30	24.0 x 2.5
Series: LL = Very light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø RAD = External pipe diameter												

Product versions:

WF LK 3 M - Pump connection (3 hole), angle 90°, with screw set, O-ring, nut and cutting ring, Malleable cast iron GTW 40

WVA**Pump connection (4 hole), aluminium, angle 90°**

Design: Pump connection (4 hole)
Construction: Angle 90°
Mounting: with metric screw set
Included in scope of supply: with metric screw set and O-ring
Material: Aluminium

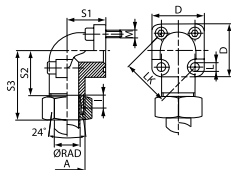


Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure PB bar	A	B mm	LK mm	S1 mm	S2 mm	L mm	Screws 1	Screws 2	OR
WVA 100 55	120	G 1" -11	25,0	55	29	54,0	8,5	(2x) M 8 x 45	(2x) M 8 x 60	29.74 x 3.53
WVA 12 30	180	G 1/2" -14	11,5	30	18	40,0	6,5	(2x) M 6 x 30	(2x) M 6 x 45	15.88 x 2.62
WVA 12 35	180	G 1/2" -14	14,0	35	18	42,5	6,5	(2x) M 6 x 30	(2x) M 6 x 45	18.72 x 2.62
WVA 12 40	180	G 1/2" -14	17,0	40	24	47,5	6,5	(2x) M 6 x 35	(2x) M 6 x 55	22.22 x 2.62
WVA 34 40	180	G 3/4" -14	17,0	40	24	47,5	6,5	(2x) M 6 x 35	(2x) M 6 x 55	22.22 x 2.62
WVA 34 55	180	G 3/4" -14	25,0	55	29	54,0	8,5	(2x) M 8 x 45	(2x) M 8 x 60	29.74 x 3.53
WVA 38 30	180	G 3/8" -19	11,5	30	18	40,0	6,5	(2x) M 6 x 30	(2x) M 6 x 45	15.88 x 2.62
WVA 38 35	180	G 3/8" -19	14,0	35	18	42,5	6,5	(2x) M 6 x 30	(2x) M 6 x 45	18.72 x 2.62

PN = Nominal pressure PB = Max. operating pressure

4

WF LK**Pump connection (4 hole), angle 90°**

Design: Pump connection (4 hole)
Construction: Angle 90°
Standard: DIN 3901/3902
Mounting: with metric screw set
Included in scope of supply: with metric screw set and O-ring
Material: Malleable cast iron GTW 40
Surface: electro galvanised

Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Series	I mm	Ø RAD mm	Pressure PB bar	A	LK mm	D mm	S1 mm	S2 mm	L mm	Screws 1	Screws 2	OR
WF 35 LK L 10 315	L	14,0	10	315	M16x1,5	35	39	16,5	30,5	6,4	(2x) M 6 x 22	(2x) M 6 x 35	20,0 x 2,5
WF 35 LK L 12 315	L	14,0	12	315	M18x1,5	35	39	16,5	30,5	6,4	(2x) M 6 x 22	(2x) M 6 x 35	20,0 x 2,5
WF 35 LK L 15 250	L	14,0	15	250	M22x1,5	35	39	16,5	30,0	6,4	(2x) M 6 x 22	(2x) M 6 x 35	20,0 x 2,5
WF 35 LK L 18 250	L	15,0	18	250	M26x1,5	35	39	20,0	30,0	6,4	(2x) M 6 x 22	(2x) M 6 x 40	20,0 x 2,5
WF 40 LK L 15 100	L	20,0	15	100	M22x1,5	40	42	22,5	30,0	6,4	(2x) M 6 x 22	(2x) M 6 x 45	26,0 x 2,5
WF 40 LK L 18 100	L	20,0	18	100	M26x1,5	40	42	22,5	30,5	6,4	(2x) M 6 x 22	(2x) M 6 x 45	26,0 x 2,5
WF 40 LK L 22 100	L	20,0	22	100	M30x2	40	42	22,5	30,5	6,4	(2x) M 6 x 22	(2x) M 6 x 45	26,0 x 2,5
WF 40 LK L 28 100	L	20,0	28	100	M36x2	40	42	28,0	32,5	6,4	(2x) M 6 x 22	(2x) M 6 x 50	26,0 x 2,5
WF 40 LK L 35 100	L	20,0	35	100	M45x2	40	42	34,0	30,5	6,4	(2x) M 6 x 22	(2x) M 6 x 60	26,0 x 2,5
WF 55 LK L 35 100	L	26,0	35	100	M45x2	55	58	32,0	38,5	8,4	(2x) M 8 x 25	(2x) M 8 x 60	32,0 x 2,5
WF 55 LK L 42 100	L	26,0	42	100	M52x2	55	58	40,0	38,0	8,4	(2x) M 8 x 25	(2x) M 8 x 70	32,0 x 2,5
WF 35 LK S 16 315	S	15,0	16	315	M24x1,5	35	39	20,0	29,5	6,4	(2x) M 6 x 22	(2x) M 6 x 40	20,0 x 2,5
WF 35 LK S 20 315	S	15,0	20	315	M30x2	35	39	25,0	34,5	6,4	(2x) M 6 x 22	(2x) M 6 x 45	20,0 x 2,5
WF 40 LK S 20 250	S	20,0	20	250	M30x2	40	42	22,5	29,5	6,4	(2x) M 6 x 22	(2x) M 6 x 45	26,0 x 2,5
WF 55 LK S 20 250	S	18,0	20	250	M30x2	55	58	30,0	34,5	8,4	(2x) M 8 x 25	(2x) M 8 x 55	32,0 x 2,5
WF 55 LK S 25 250	S	20,0	25	250	M36x2	55	58	30,0	37,0	8,4	(2x) M 8 x 25	(2x) M 8 x 55	32,0 x 2,5
WF 55 LK S 30 250	S	26,0	30	250	M42x2	55	58	32,0	35,5	8,4	(2x) M 8 x 25	(2x) M 8 x 50	32,0 x 2,5

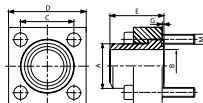
Series: LL = Very light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure Ø RAD = External pipe diameter

Product versions:

WF LK M - Pump connection (4 hole), angle 90°, with screw set, O-ring, nut and cutting ring, Malleable cast iron GTW 40

CET ST 250**Cetop square flange, welded on flanges**

Design: Cetop square flange
Construction: straight
Standard: CETOP RP 63H, ISO 6164
Mounting: with metric screw set
Included in scope of supply: with metric screw set and O-ring
Material: S355J2G3 (ST52.3)
Surface: black oiled



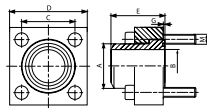
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure PB bar	Size	A mm	Ø B mm	C mm	D mm	E mm	G mm	M metr.
CET 38 ST 250	250	3/8"	18	12,5	24,7	40	30	1,0	M 6 x 25
CET 12 ST 250	250	1/2"	22	15,0	29,7	45	30	1,0	M 8 x 30
CET 34 ST 250	250	3/4"	28	20,0	35,3	50	35	1,0	M 8 x 30
CET 1 ST 250	250	1"	35	25,0	43,8	65	40	1,0	M 10 x 35
CET 114 ST 250	250	1.1/4"	43	32,0	51,6	75	45	1,0	M 12 x 40
CET 112 ST 250	250	1.1/2"	50	38,0	60,0	85	50	1,0	M 14 x 45
CET 2 ST 250	250	2"	62	47,0	69,4	100	60	1,5	M 16 x 55
CET 212 ST 250	250	2.1/2"	76	58,0	83,4	120	70	1,5	M 20 x 65
CET 3 ST 250	250	3"	90	70,0	102,5	140	80	1,5	M 20 x 75
CET 312 ST 250	250	3.1/2"	102	80,0	102,5	140	90	1,5	M 20 x 90
CET 4 ST 250	250	4"	114	90,0	113,2	160	105	1,5	M 24 x 100

PN = Nominal pressure PB = Max. operating pressure

CET ST 400

Cetop square flange, welded on flanges



- Design:**

Construction:

Standard:

Mounting:

Included in scope of supply:

Material:

Surface:
- Cetop square flange straight

CETOP RP 63H, ISO 6164 with metric screw set

with metric screw set and O-ring

S355J2G3 (ST52.3)

black oiled

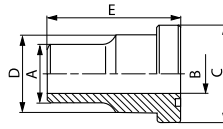
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe.

Identification	Pressure PB bar	Size	A mm	Ø B mm	C mm	D mm	E mm	G mm	M metr.
CET 38 ST 400	400	3/8"	18	11,0	24,7	40	35	1,0	M 6 x 25
CET 12 ST 400	400	1/2"	22	14,0	29,7	45	40	1,0	M 8 x 30
CET 34 ST 400	400	3/4"	28	18,0	35,3	50	45	1,0	M 8 x 35
CET 1 ST 400	400	1"	35	22,0	43,8	65	50	1,0	M 10 x 40
CET 114 ST 400	400	1.1/4"	44	29,0	51,6	75	55	1,0	M 12 x 45
CET 112 ST 400	400	1.1/2"	51	35,0	60,0	85	60	1,0	M 14 x 55
CET 2 ST 400	400	2"	61	43,0	69,4	100	70	1,5	M 16 x 65
CET 212 ST 400	400	2.1/2"	80	53,0	83,4	120	80	1,5	M 20 x 75
CET 3 ST 400	400	3"	90	58,0	102,5	140	90	1,5	M 20 x 90
CET 312 ST 400	400	3.1/2"	102	63,0	102,5	140	95	1,5	M 20 x 90
CET 4 ST 400	400	4"	114	74,0	113,2	160	105	1,5	M 24 x 100

PN = Nominal pressure PB = Max. operating pressure

VKS ST 250**Cetop square flange, short stub end**

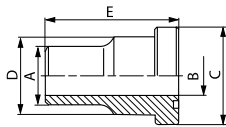
Design: Cetop square flange
Construction: straight
Standard: CETOP RP 63H, ISO 6164
Material: S355J2G3 (ST52.3)
Surface: black oiled



Identification	Pressure PB bar	Size	A mm	Ø B mm	C mm	D mm	E mm
VKS 114 ST 250	250	1.1/4"	43	32	50,8	43	45
VKS 2 ST 250	250	2"	62	47	71,4	62	60
PN = Nominal pressure PB = Max. operating pressure Series: LL = Very light L = Light S = Heavy							

VKS ST 400

Cetop square flange, short stub end



Design:
Construction:
Standard:
Material:
Surface:

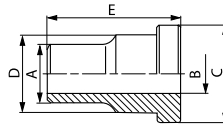
Cetop square flange
straight
CETOP RP 63H, ISO 6164
S355J2G3 (ST52.3)
black oiled

Identification	Pressure PB bar	Size	A mm	Ø B mm	C mm	D mm	E mm
VKS 34 ST 400	400	3/4"	28	18	39,5	32	45
VKS 114 ST 400	400	1.1/4"	44	29	54,0	44	55
VKS 2 ST 400	400	2"	61	43	79,4	67	70
VKS 212 ST 400	400	2.1/2"	80	53	94,2	60	80
VKS 3 ST 400	400	3"	90	58	104,0	90	90

Series: LL = Very light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure

G VKS ST 250**Cetop square flange, short stub end**

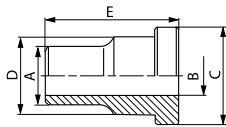
Design: Cetop square flange
Construction: straight
Standard: CETOP RP 63H, ISO 6164
Material: S355J2G3 (ST52.3)
Surface: black oiled



Identification	Pressure PB bar	Size	A mm	Ø B mm	C mm	D mm	E mm
G VKS 38 ST 250	250	3/8"	18	12,5	24,5	18,0	30
G VKS 12 ST 250	250	1/2"	22	15,0	30,2	24,0	30
G VKS 34 ST 250	250	3/4"	28	20,0	38,1	31,5	35
G VKS 1 ST 250	250	1"	35	25,0	44,4	38,0	40
G VKS 114 ST 250	250	1.1/4"	43	32,0	50,8	43,0	45
G VKS 112 ST 250	250	1.1/2"	50	38,0	60,3	50,0	50
G VKS 2 ST 250	250	2"	62	47,0	71,4	62,0	60
G VKS 212 ST 250	250	2.1/2"	76	58,0	87,2	76,0	70
G VKS 3 ST 250	250	3"	90	70,0	101,6	90,0	80
G VKS 312 ST 250	250	3.1/2"	102	80,0	119,0	102,0	90
G VKS 4 ST 250	250	4"	114	90,0	131,0	114,0	105
PN = Nominal pressure PB = Max. operating pressure Series: LL = Very light L = Light S = Heavy							

G VKS ST 400

Cetop square flange, short stub end



Design:
Construction:
Standard:
Material:
Surface:

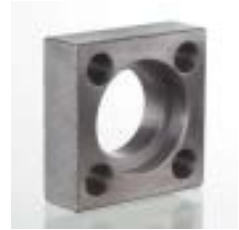
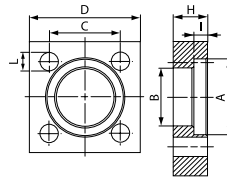
Cetop square flange
straight
CETOP RP 63H, ISO 6164
S355J2G3 (ST52.3)
black oiled

Identification	Pressure PB bar	Size	A mm	Ø B mm	C mm	D mm	E mm
G VKS 38 ST 400	400	3/8"	18	11,0	26,0	18	35
G VKS 12 ST 400	400	1/2"	22	14,0	31,8	24	40
G VKS 34 ST 400	400	3/4"	28	18,0	39,5	32	45
G VKS 1 ST 400	400	1"	35	22,0	47,6	38	50
G VKS 114 ST 400	400	1.1/4"	44	29,0	54,0	44	55
G VKS 112 ST 400	400	1.1/2"	51	35,0	63,5	51	60
G VKS 2 ST 400	400	2"	61	43,0	79,4	67	70
G VKS 212 ST 400	400	2.1/2"	80	53,0	94,2	60	80
G VKS 3 ST 400	400	3"	90	58,0	104,0	90	90
G VKS 312 ST 400	400	3.1/2"	102	63,0	119,0	102	90
G VKS 4 ST 400	400	4"	114	74,0	131,0	114	105

Series: LL = Very light L = Light S = Heavy PN = Nominal pressure PB = Max. operating pressure

VK ST 250**Cetop square flange**

Pressure series: 3000 psi
Design: Cetop square flange
Construction: straight
Standard: CETOP RP 63H, ISO 6164
Mounting: Screw bore hole
Material: S355J2G3 (C45)
Surface: black oiled



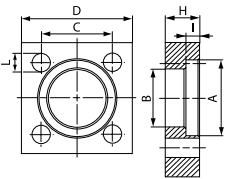
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	Pressure PB bar	Size	A mm	H mm	I mm	Ø B mm	C mm	D mm	L mm	M metr.
VK 38 ST 250	250	3/8"	25,1	14	6,3	18,5	24,7	40	6,5	M 6 x 25
VK 12 ST 250	250	1/2"	31,0	15	6,3	24,3	29,7	45	8,5	M 8 x 30
VK 34 ST 250	250	3/4"	38,9	16	6,3	32,1	35,3	50	8,5	M 8 x 30
VK 1 ST 250	250	1"	45,3	18	7,6	38,5	43,8	65	11,0	M 10 x 35
VK 112 ST 250	250	1.1/2"	61,1	25	7,6	50,8	60,0	85	15,0	M 14 x 45
VK 114 ST 250	250	1.1/4"	51,6	22	7,6	43,7	51,6	75	13,0	M 12 x 40
VK 2 ST 250	250	2"	72,2	30	9,1	62,7	69,4	100	17,0	M 16 x 55
VK 212 ST 250	250	2.1/2"	88,0	35	9,1	76,6	83,4	120	21,0	M 20 x 65
VK 3 ST 250	250	3"	102,3	40	9,1	90,8	102,5	140	21,0	M 20 x 75

PN = Nominal pressure PB = Max. operating pressure

VK ST 400

Cetop square flange



- Pressure series:** 6000 psi
Design: Cetop square flange
Construction: straight
Standard: CETOP RP 63H, ISO 6164
Mounting: Screw bore hole
Material: S355J2G3 (C45)
Surface: black oiled

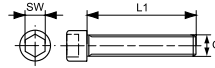
Note: The stated maximum working pressure relates to the flange. The actual working pressure is determined by the pipe (wall thickness) and the quality of the pipe. Recommended screws are listed in the columns M (metr) and M (unc).

Identification	Pressure PB bar	Size	A mm	H mm	I mm	Ø B mm	C mm	D mm	L mm	M metr.
VK 12 ST 400	400	1/2"	32,5	17	7,4	24,6	29,7	45	8,5	M 8 x 30
VK 1 ST 400	400	1"	48,4	24	9,1	38,5	43,8	65	11,0	M 10 x 40
VK 112 ST 400	400	1.1/2"	64,3	32	12,2	51,6	60,0	85	15,0	M 14 x 55
VK 114 ST 400	400	1.1/4"	54,8	28	9,9	44,5	51,6	75	13,0	M 12 x 50
VK 2 ST 400	400	2"	80,2	40	12,2	67,6	69,4	100	17,0	M 16 x 65
VK 212 ST 400	400	2.1/2"	95,0	45	16,1	80,5	83,4	120	21,0	M 20 x 75
VK 312 ST 400	400	3.1/2"	120,0	52	17,5	102,5	102,5	140	21,0	M 20 x 90

PN = Nominal pressure PB = Max. operating pressure

AFS SCHR M**Metric screw set, hexagon socket**

Design: Screw set
Standard: DIN 912 (ISO 4762)
Included in scope of supply: 4 screws + 4 lock washers
Material: Steel 10.9
Surface: black oiled

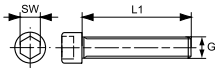


Identification	G1	L1 mm	SW mm
AFS 80 SCHR M	M 8 x 1.25	30	6
AFS 100 SCHR M	M 10 x 1.5	35	8
AFS 104 SCHR M	M 10 x 1.5	40	8
AFS 106 SCHR M	M 12 x 1.75	45	10
AFS 112 SCHR M	M 16 x 2	50	14
AFS 404 SCHR M	M 14 x 2	45	12
AFS 406 SCHR M	M 20 x 2.5	70	17

SW = Width across flats

AFS SCHR U

UNC screw set, hexagon socket



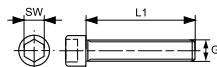
Design: Screw set
Standard: ASA B 18.3
Included in scope of supply: 4 screws + 4 lock washers
Material: Steel 10.9
Surface: black oiled

Identification	G1	L1 mm	SW
AFS 80 SCHR U	5/16" x 1.1/4" UNC	31,8	7/32"
AFS 100 SCHR U	3/8" x 1.1/2" UNC	38,1	5/16"
AFS 104 SCHR U	7/16" x 1.1/2" UNC	38,1	5/16"
AFS 106 SCHR U	1/2" x 1.3/4" UNC	44,5	3/8"
AFS 112 SCHR U	5/8" x 2" UNC	50,8	1/2"
AFS 403 SCHR U	7/16" x 1.3/4" UNC	44,5	5/16"
AFS 406 SCHR U	3/4" x 2.1/2" UNC	63,5	9/16"

SW = Width across flats

AFS SCHRAUBE**Hexagon socket screw**

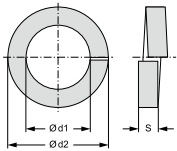
Design: Hexagon socket screw
Standard: DIN 912 (ISO 4762)
Material: Steel 10.9
Surface: black oiled



Identification	G1	L1 mm	SW mm
AFS SCHRAUBE 1	M 8 x 1.25	25	6
AFS SCHRAUBE 2	M 8 x 1.25	30	6
AFS SCHRAUBE 3	M 10 x 1.5	35	8
AFS SCHRAUBE 4	M 10 x 1.5	40	8
AFS SCHRAUBE 5	M 12 x 1.75	45	10
AFS SCHRAUBE 6	M 14 x 2	45	12
AFS SCHRAUBE 7	M 16 x 2	50	14
AFS SCHRAUBE 8	M 20 x 2.5	65	17
SW = Width across flats			

FEDERRING

Lock washer



Design:
Standard:
Material:

Lock washer
DIN 127 Shape B
Spring steel

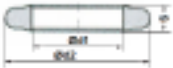
Identification	Ø d1 mm	Ø d2 mm	S mm
FEDERRING M8	8,1	14,8	2,0
FEDERRING M10	10,2	18,1	2,2
FEDERRING M12	12,2	21,1	2,5
FEDERRING M14	14,2	24,1	3,0
FEDERRING M16	16,2	27,4	3,5
FEDERRING M20	20,2	33,6	4,0

FS-Box

Seal box for SAE and ISO flanges, SET

Working pressure: up to 500 bar
Temp. min.: -40 °C
Temp. max.: 120 °C
Media: Mineral oils
Material: Polyurethane 93 Shore A

	Ød1	Ød2	3	Range/Quantity
FS-08	18.43	19.45	5,53	6
FS-12	24.89	27.80	5,53	6
FS-16	32.78	38.70	5,53	6
FS-20	37.50	44.50	5,53	6
FS-24	46.80	53.80	5,53	6
FS-32	56.43	63.40	5,53	6



Identification

Flange size

FS-BOX

FS

Seal for SAE and ISO flanges

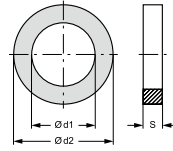


Working pressure: up to 500 bar
Temp. min.: -40 °C
Temp. max.: 120 °C
Media: Mineral oils
Material: Polyurethane 93 Shore A

Identification	Flange size	d1 mm	d2 mm	S mm
FS-08	1/2"	18,40	25,40	3,53
FS-12	3/4"	24,80	31,80	3,53
FS-16	1"	32,70	39,70	3,53
FS-20	1.1/4"	37,50	44,50	3,53
FS-24	1.1/2"	46,80	53,80	3,53
FS-32	2"	56,40	63,40	3,53
FS-40	2.1/2"	69,40	76,20	3,53
FS-48	3"	85,30	91,90	3,53

SF O-RING**O-ring for SAE flange connection**

Temp. min.: -20 °C
Temp. max.: 100 °C
Material: NBR 90 Shore A



Note: The SFORING75 is made from the material NBR 70 Shore A.

Identification	DN*	Size	Inches	Ø d1 mm	Ø d2 mm	S mm
SF ORING 13	12	8	1/2"	18,66	25,72	3,53
SF ORING 20	19	12	3/4"	24,99	32,05	3,53
SF ORING 25	25	16	1"	32,92	39,98	3,53
SF ORING 32	31	20	1.1/4"	37,70	44,76	3,53
SF ORING 40	38	24	1.1/2"	47,22	54,28	3,53
SF ORING 50	51	32	2"	56,74	63,80	3,53
SF ORING 75	76	48	3"	85,32	92,38	3,53

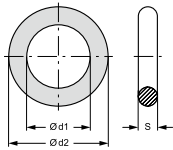
Product versions:

SF O-RING PU - O-ring for SAE flange connection, Polyurethane 93 Shore A

SF O-RING V - O-ring, 90SH FKM (FPM), FKM SH 90 (Viton)

SAE O-RING

SAE O-ring



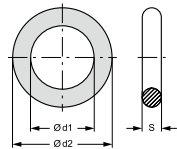
Design: SAE O-ring
Standard: SAE J518
Material: NBR SH 90

Identification	Ø d1 mm	Ø d2 mm	S mm
SAE O-RING 1/2	18,66	25,72	3,53
SAE O-RING 3/4	25,00	32,06	3,53
SAE O-RING 1	32,92	39,98	3,53
SAE O-RING 1 1/4	37,70	44,76	3,53
SAE O-RING 1 1/2	47,22	54,28	3,53
SAE O-RING 2	56,75	63,81	3,53
SAE O-RING 2 1/2	69,45	76,51	3,53
SAE O-RING 3	85,32	92,38	3,53
SAE O-RING 3 1/2	98,02	105,08	3,53
SAE O-RING 4	110,72	117,78	3,53

Product versions:
SAE O-RING V - , FKM SH 90 (Viton)

SAE O-RING V

Temp. min.: -15 °C
 Temp. max.: 200 °C
 Material: FKM SH 90 (Viton)



Identification	Flange size	Ø d1 mm	S mm
SAE O-RING 1/2 V	1/2"	18,64	3,53
SAE O-RING 3/4 V	3/4"	24,99	3,53
SAE O-RING 1 V	1"	32,92	3,53
SAE O-RING 1 1/4 V	1.1/4"	37,69	3,53
SAE O-RING 1 1/2 V	1.1/2"	47,22	3,53
SAE O-RING 2 V	2"	56,74	3,53
SAE O-RING 2 1/2 V	2.1/2"	69,44	3,53
SAE O-RING 3 V	3"	85,32	3,53
SAE O-RING 3 1/2 V	3.1/2"	98,02	3,53
SAE O-RING 4 V	4"	110,72	3,53

Product versions:
 SAE O-RING - SAE O-ring, NBR SH 90

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