



Section 13

PEAL[®] Hydraulic Fittings

(JIC, UNO, BSPT, NPT)

Edition 3

Specifications

Hydraulics

Hydraulic fittings are designed and manufactured to withstand much greater pressures than those experienced in general piping systems. Hydraulic Fittings come complete with a Zinc Chromium finish to increase corrosion resistance.

AAP stocks a variety of combinations using the following threads

British Standard Pipe (BSP) - AS1722, ISO 7, ISO228

Joint Industry Council (JIC) - SAE J514

Unified National O Ring (UNO) - SAE J514

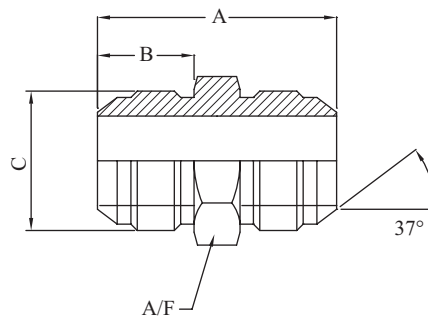
N.B For more detailed information please refer directly to the above standards

British Standard Threads (BSP)									
				Taper External Thread		Parallel External Thread		Taper & Parallel Internal Thread	
Nominal Tube Size	Dash Size	Nominal Thread Size	Pitch	MAX Working Pressure (BAR)	Thread OD	MAX Working Pressure (BAR)	Thread OD	MAX Working Pressure (BAR)	Thread ID
1/8	2	1/8	28	420	9.72	350	9.72	400	8.59
1/4	4	1/4	19	350	13.16	350	13.16	400	11.46
3/8	6	3/8	19	350	16.66	310	16.66	400	14.96
1/2	8	1/2	14	350	20.95	275	20.95	400	18.65
3/4	12	3/4	14	280	26.44	210	26.44	400	24.13
1	16	1	11	210	33.24	170	33.24	400	30.3
1 1/4	20	1 1/4	11	175	41.91	140	41.91	250	38.97
1 1/2	24	1 1/2	11	105	47.8	105.00	47.8	250	44.86
2	32	2	11	105	59.61	80	59.61	250	56.67

JIC/UNO - SAE J514							
				External Thread		Internal	
Nominal Tube Size	Dash Size	Nominal Thread Size	Pitch	MAX Working Pressure (BAR)	Thread OD	MAX Working Pressure (BAR)	Thread ID
1/8	05	5/16	24	350	7.87	350	6.9
3/16	06	3/8	24	350	9.65	350	8.6
1/4	07	7/16	20	350	11.07	310	10.0
5/16	08	1/2	20	350	12.7	275	11.6
3/8	09	9/16	18	350	14.25	275	13.0
1/2	12	3/4	16	310	19	275	17.6
5/8	14	7/8	14	240	22.17	210	20.5
3/4	17	1 1/16	12	240	26.95	170	25.0
1	21	1 5/16	12	210	33.3	170	31.3
1 1/4	26	1 5/8	12	170	41.22	140	39.2
1 1/2	30	1 7/8	12	140	47.57	105	45.6
2	40	2 1/2	12	105	63.45	80	61.5

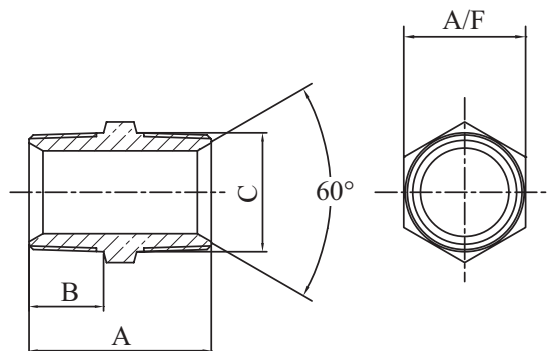
PEAL® Hydraulic Nipple JIC Male x JIC Male

Hydraulic Nipple JIC Male x JIC Male							
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	APPROX. KG/PC
HN0707J	7/16 x 7/16	07-07	16	35	14	7/16 - 20	0.06
HN0909J	9/16 x 9/16	09-09	16	36	14	9/16 - 18	0.06
HN1212J	3/4 x 3/4	12-12	22	41	17	3/4 - 16	0.06
HN1414J	7/8 x 7/8	14-14	27	48	19	7/8 - 14	0.09
HN1717J	1 1/16 x 1 1/16	17-17	29	55	22	1 1/16 - 12	0.14
HN2121J	1 5/16 x 1 5/16	21-21	35	57	23	1 5/16 - 12	0.19



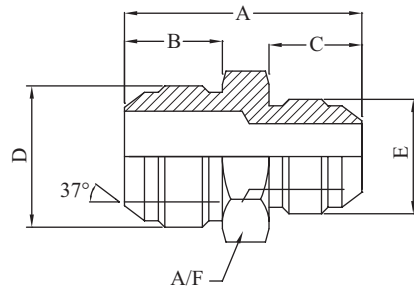
PEAL® Hydraulic Nipple BSPT X BSPT

Hydraulic Nipple BSPT X BSPT							
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	APPROX. KG/PC
HN02B	1/8	02	11	27	10	1/8 - 28	0.02
HN04B	1/4	04	16	35	14	1/4 - 19	0.02
HN06B	3/8	06	19	35	13	3/8 - 19	0.04
HN08B	1/2	08	22	46	18	1/2 - 14	0.07
HN12B	3/4	12	27	48	19	3/4 - 14	0.08
HN16B	1	16	35	52	21	1 - 11	0.16
HN20B	1 1/4	20	47	61	27	1 1/4 - 11	0.27
HN24B	1 1/2	24	52	65	27	1 1/2 - 11	0.31
HN32B	2	32	61	70	30	2 - 11	0.48



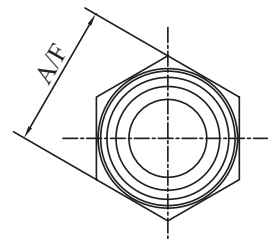
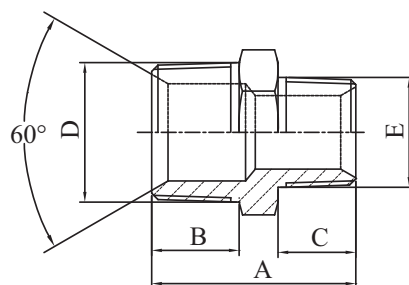
PEAL® Hydraulic Reducing Nipple JIC Male x JIC Male

Hydraulic Reducing Nipple JIC Male x JIC Male									
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	D	E	APPROX. KG/PC
HN1412J	7/8 x 3/4	14-12	27	45	19	17	7/8 - 14	3/4 - 16	0.09
HN1712J	1 1/16 x 3/4	17-12	29	50	22	17	1 1/16 - 12	3/4 - 16	0.14
HN1714J	1 1/16 x 7/8	17-14	29	52	22	19	1 1/16 - 12	7/8 - 14	0.14
HN2114J	1 5/16 x 7/8	21-14	35	53	23	19	1 5/16 - 12	7/8 - 14	0.19
HN2117J	1 5/16 x 1 1/16	21-17	35	56	23	22	1 5/16 - 12	1 1/16 - 12	0.19



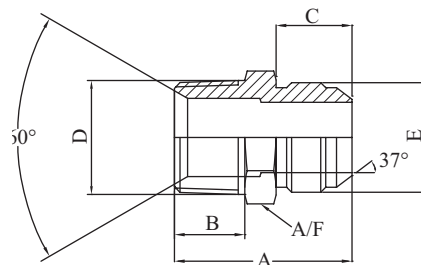
PEAL® Hydraulic Reducing Nipple BSPT X BSPT

Hydraulic Reducing Nipple BSPT X BSPT									
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	D	E	APPROX. KG/PC
HN0402B	1/4 x 1/8	04-02	16	30	13	10	1/4 - 19	1/8 - 28	0.02
HN0602B	3/8 x 1/8	06-02	19	31	13	10	3/8 - 19	1/8 - 28	0.03
HN0604B	3/8 x 1/4	06-04	19	35	13	13	3/8 - 19	1/4 - 19	0.04
HN0804B	1/2 x 1/4	08-04	22	40	19	13	1/2 - 14	1/4 - 19	0.05
HN0806B	1/2 x 3/8	08-06	22	40	19	13	1/2 - 14	3/8 - 19	0.06
HN1206B	3/4 x 3/8	12-06	27	42	19	13	3/4 - 14	3/8 - 19	0.07
HN1208B	3/4 x 1/2	12-08	27	48	19	19	3/4 - 14	1/2 - 14	0.09
HN1608B	1 x 1/2	16-08	35	50	21	19	1 - 11	1/2 - 14	0.13
HN1612B	1 x 3/4	16-12	35	50	21	19	1 - 11	3/4 - 14	0.13
HN2012B	1 1/4 x 3/4	20-12	47	55	27	19	1 1/4 - 11	3/4 - 14	0.25
HN2016B	1 1/4 x 1	20-16	47	57	27	21	1 1/4 - 11	1 - 11	0.24
HN2412B	1 1/2 x 3/4	24-12	52	57	27	19	1 1/2 - 11	3/4 - 14	0.32
HN2416B	1 1/2 x 1	24-16	52	59	27	21	1 1/2 - 11	1 - 11	0.30
HN2420B	1 1/2 x 1 1/4	24-20	52	63	27	27	1 1/2 - 11	1 1/4 - 11	0.34
HN3212B	2 x 3/4	32-12	61	60	30	19	2 - 11	3/4 - 14	0.41
HN3216B	2 x 1	32-16	61	62	30	21	2 - 11	1 - 11	0.52
HN3220B	2 x 1 1/4	32-20	61	66	30	27	2 - 11	1 1/4 - 11	0.51
HN3224B	2 x 1 1/2	32-24	61	66	30	27	2 - 11	1 1/2 - 11	0.49



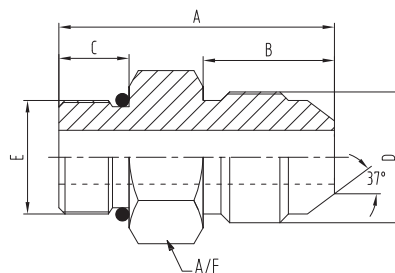
PEAL® Hydraulic Nipple BSPT x JIC Male

Hydraulic Nipple BSPT x JIC Male									
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	D	E	APPROX. KG/PC
HN04B07J	1/4 x 7/16	04-07	16	35	14	14	1/4 - 19	7/16 - 20	0.06
HN04B09J	1/4 x 9/16	04-09	16	36	14	14	1/4 - 19	9/16 - 18	0.06
HN06B07J	3/8 x 7/16	06-07	22	35	14	14	3/8 - 19	7/16 - 20	0.06
HN06B09J	3/8 x 9/16	06-09	22	36	14	14	3/8 - 19	9/16 - 18	0.06
HN06B12J	3/8 x 3/4	06-12	22	36	14	17	3/8 - 19	3/4 - 16	0.06
HN08B09J	1/2 x 9/16	08-09	22	41	19	14	1/2 - 14	9/16 - 18	0.09
HN08B12J	1/2 x 3/4	08-12	22	44	19	17	1/2 - 14	3/4 - 16	0.09
HN08B14J	1/2 x 7/8	08-14	27	46	19	19	1/2 - 14	7/8 - 14	0.09
HN12B12J	3/4 x 3/4	12-12	29	45	19	17	3/4 - 14	3/4 - 16	0.14
HN12B14J	3/4 x 7/8	12-14	29	48	19	19	3/4 - 14	7/8 - 14	0.14
HN12B17J	3/4 x 1 1/16	12-17	27	51	19	22	3/4 - 14	1 1/16 - 12	0.14
HN16B17J	1 x 1 1/16	16-17	35	53	21	22	1 - 11	1 1/16 - 12	0.19
HN16B21J	1 x 1 5/16	16-21	35	54	21	23	1 - 11	1 5/16 - 12	0.19



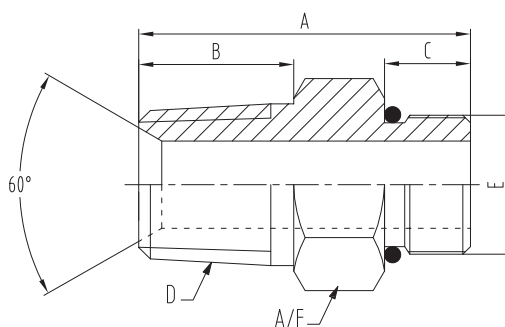
PEAL® Hydraulic Nipple UNO x JIC Male

Hydraulic Nipple UNO x JIC Male									
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	D	E	APPROX. KG/PC
HN09U09J	9/16 x 9/16	09 - 09	19	29.5	14	9.93	9/16 - 18	9/16 - 18	0.03
HN12U09J	3/4 x 9/16	12 - 09	22	33	14	11.13	9/16 - 18	3/4 - 16	0.05
HN12U12J	3/4 x 3/4	12 - 12	22	36	17	11.13	3/4 - 16	3/4 - 16	0.06
HN12U14J	3/4 x 7/8	12 - 14	27	38	19	11.13	7/8 - 14	3/4 - 16	0.07
HN14U09J	7/8 x 9/16	14 - 09	27	36.5	14	12.7	9/16 - 18	7/8 - 14	0.07
HN14U12J	7/8 x 3/4	14 - 12	27	39.5	17	12.7	3/4 - 16	7/8 - 14	0.08
HN14U14J	7/8 x 7/8	14 - 14	27	41.5	19	12.7	7/8 - 14	7/8 - 14	0.09
HN17U12J	1 1/16 x 3/4	17 - 12	35	43	17	15.09	3/4 - 16	1 1/16 - 12	0.13
HN17U14J	1 1/16 x 7/8	17 - 14	35	45	19	15.09	7/8 - 14	1 1/16 - 12	0.13
HN17U17J	1 1/16 x 1 1/16	17 - 17	35	48	22	15.09	1 1/16 - 12	1 1/16 - 12	0.15



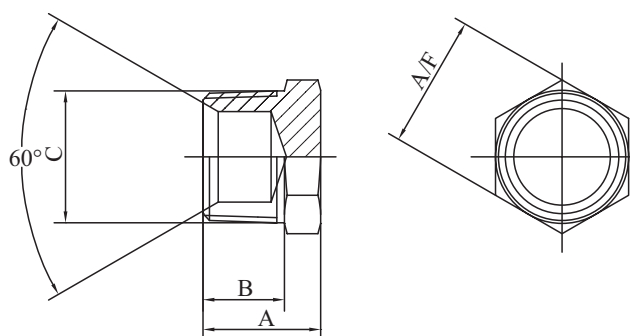
PEAL® Hydraulic Nipple BSPT x UNO Male

Hydraulic Nipple BSPT x UNO Male									
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	D	E	APPROX. KG/PC
HN04B09U	1/4 X 9/16	04-09	19	29	13.5	9.93	1/4 - 19	9/16 - 18	0.03
HN06B09U	3/8 X 9/16	06-09	19	29	13.5	9.93	3/8 - 19	9/16 - 18	0.03
HN06B12U	3/8 X 3/4	06-12	22	32.5	13.5	11.13	3/8 - 19	3/4 - 16	0.05
HN06B14U	3/8 X 7/8	06-14	27	36	13.5	12.7	3/8 - 19	7/8 - 14	0.06
HN08B12U	1/2 X 3/4	08-12	22	38	19	11.13	1/2 - 14	3/4 - 16	0.08
HN08B14U	1/2 X 7/8	08-14	27	41.5	19	12.7	1/2 - 14	7/8 - 14	0.09
HN08B17U	1/2 X 1 1/16	08-17	35	45	19	15.09	1/2 - 14	1 1/16 - 12	0.09
HN12B14U	3/4 X 7/8	12-14	27	41.5	19	12.7	3/4 - 14	7/8 - 14	0.13
HN12B17U	3/4 X 1 1/16	12-17	35	45	19	15.09	3/4 - 14	1 1/16 - 12	0.13
HN16B17U	1 X 1 1/16	16-17	35	47.5	21.5	15.09	1 - 11	1 1/16 - 12	0.14



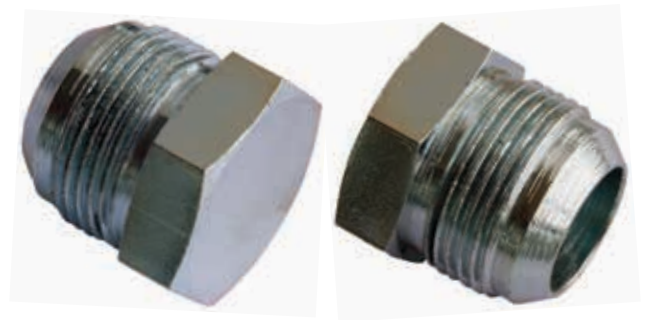
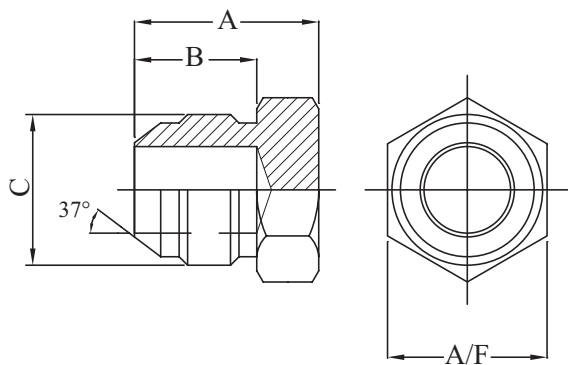
PEAL® Hydraulic Plug BSPT

Hydraulic Plug BSPT							
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	APPROX. KG/PC
HP02B	1/8	02	11	17	10	1/8 - 28	0.01
HP04B	1/4	04	16	20	13	1/4 - 19	0.02
HP06B	3/8	06	19	21	13	3/8 - 19	0.04
HP08B	1/2	08	22	27	19	1/2 - 14	0.07
HP12B	3/4	12	27	29	19	3/4 - 14	0.12
HP16B	1	16	35	31	21	1 - 11	0.26
HP20B	1 1/4	20	47	39	27	1 1/4 - 11	0.41
HP24B	1 1/2	24	52	42	27	1 1/2 - 11	0.55
HP32B	2	32	61	46	30	2 - 11	0.88



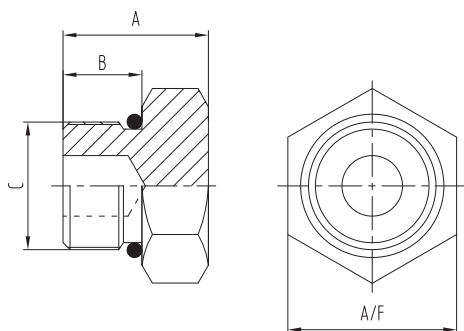
PEAL® Hydraulic Plug JIC

Hydraulic Plug JIC							
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	APPROX. KG/PC
HP07J	7/16	07	16	21	14	7/16 - 20	0.04
HP09J	9/16	09	16	22	14	9/16 - 18	0.04
HP12J	3/4	12	22	24	17	3/4 - 16	0.04
HP14J	7/8	14	27	29	19	7/8 - 14	0.05
HP17J	1 1/16	17	29	33	22	1 1/16 - 12	0.09
HP21J	1 5/16	21	35	34	23	1 5/16 - 12	0.1



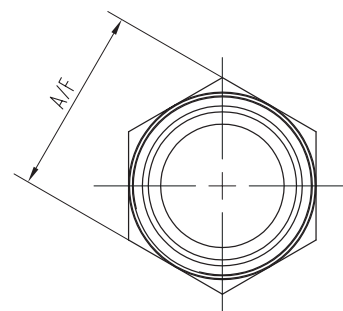
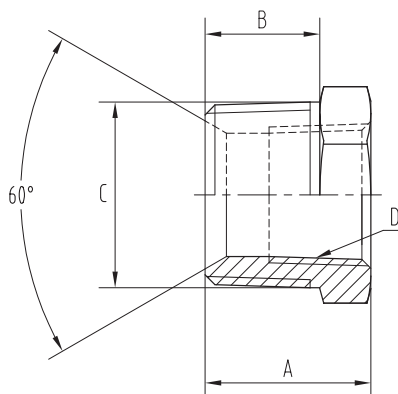
PEAL® Hydraulic Plug UNO

Hydraulic Plug UNO							
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	APPROX. KG/PC
HP09U	9/16	09	19	17.5	9.93	9/16 - 18	0.02
HP12U	3/4	12	22	19.5	11.13	3/4 - 16	0.05
HP14U	7/8	14	27	23	12.7	7/8 - 14	0.07
HP17U	1 1/16	17	35	26.5	15.09	1 1/16 - 12	0.11



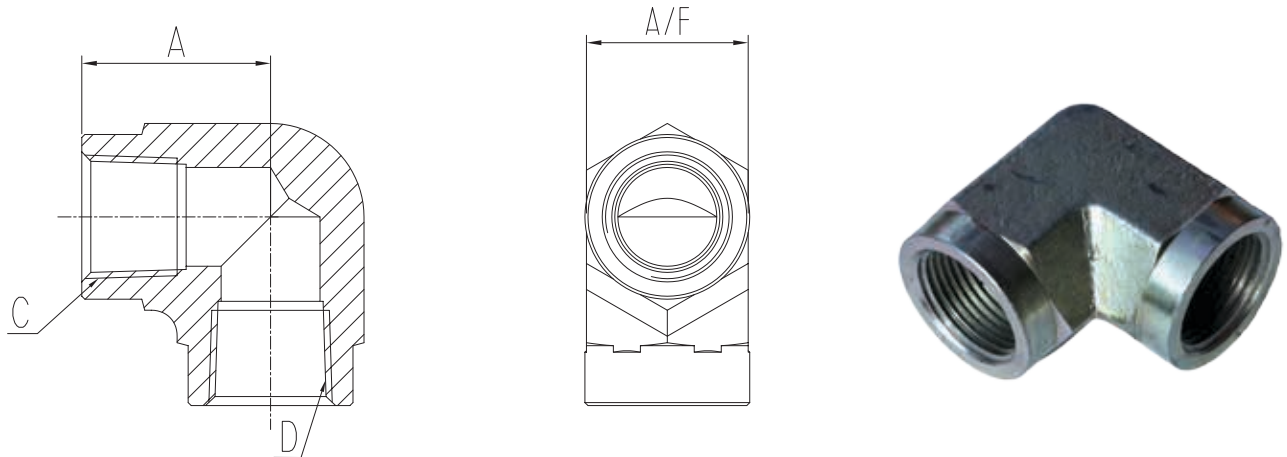
PEAL® Hydraulic Bush BSPT

Hydraulic Bush BSPT								
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	D	APPROX. KG/PC
HB0402B	1/4 x 1/8	04-02	16	20	14	1/4 - 19	1/8 - 28	0.01
HB0602B	3/8 x 1/8	06-02	19	21	13	3/8 - 19	1/8 - 28	0.02
HB0604B	3/8 x 1/4	06-04	19	21	13	3/8 - 19	1/4 - 19	0.02
HB0804B	1/2 x 1/4	08-04	22	27	19	1/2 - 14	1/4 - 19	0.04
HB0806B	1/2 x 3/8	08-06	22	27	19	1/2 - 14	3/8 - 19	0.03
HB1204B	3/4 x 1/4	12-04	27	29	19	3/4 - 14	1/4 - 19	0.07
HB1206B	3/4 x 3/8	12-06	27	29	19	3/4 - 14	3/8 - 19	0.06
HB1208B	3/4 x 1/2	12-08	27	29	19	3/4 - 14	1/2 - 14	0.05
HB1604B	1 x 1/4	16-04	35	31	21	1 - 11	1/4 - 19	0.13
HB1606B	1 x 3/8	16-06	35	31	21	1 - 11	3/8 - 19	0.12
HB1608B	1 x 1/2	16-08	35	31	21	1 - 11	1/2 - 14	0.11
HB1612B	1 x 3/4	16-12	35	31	21	1 - 11	3/4 - 14	0.10
HB2006B	1 1/4 x 3/8	20-06	47	39	27	1 1/4 - 11	3/8 - 19	0.26
HB2008B	1 1/4 x 1/2	20-08	47	39	27	1 1/4 - 11	1/2 - 14	0.25
HB2012B	1 1/4 x 3/4	20-12	47	39	27	1 1/4 - 11	3/4 - 14	0.24
HB2016B	1 1/4 x 1	20-16	47	39	27	1 1/4 - 11	1 - 11	0.19
HB2408B	1 1/2 x 1/2	24-08	52	42	27	1 1/2 - 11	1/2 - 14	0.33
HB2412B	1 1/2 x 3/4	24-12	52	42	27	1 1/2 - 11	3/4 - 14	0.30
HB2416B	1 1/2 x 1	24-16	52	42	27	1 1/2 - 11	1 - 11	0.25
HB2420B	1 1/2 x 1 1/4	24-20	52	42	27	1 1/2 - 11	1 1/4 - 11	0.17
HB3208B	2 x 1/2	32-08	61	46	30	2 - 11	1/2 - 14	0.50
HB3212B	2 x 3/4	32-12	61	46	30	2 - 11	3/4 - 14	0.50
HB3216B	2 x 1	32-16	61	46	30	2 - 11	1 - 11	0.43
HB3220B	2 x 1 1/4	32-20	61	46	30	2 - 11	1 1/4 - 11	0.41
HB3224B	2 x 1 1/2	32-24	61	46	30	2 - 11	1 1/2 - 11	0.35



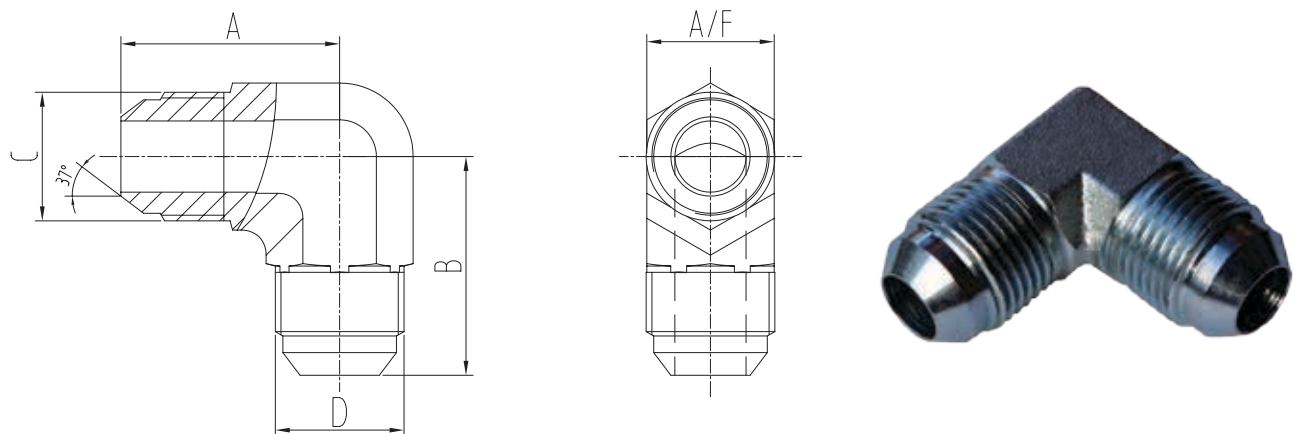
PEAL® Hydraulic Elbow BSPT

Hydraulic Elbow BSPT								
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	D	APPROX. KG/PC
HE04B	1/4	04	19	23.5	23.5	1/4 - 19	1/4 - 19	0.08
HE06B	3/8	06	22	26	26	3/8 - 19	3/8 - 19	0.10
HE08B	1/2	08	27	31.5	31.5	1/2 - 14	1/2 - 14	0.18
HE12B	3/4	12	33.5	35	35	3/4 - 14	3/4 - 14	0.28
HE16B	1	16	41	41.5	41.5	1 - 11	1 - 11	0.49



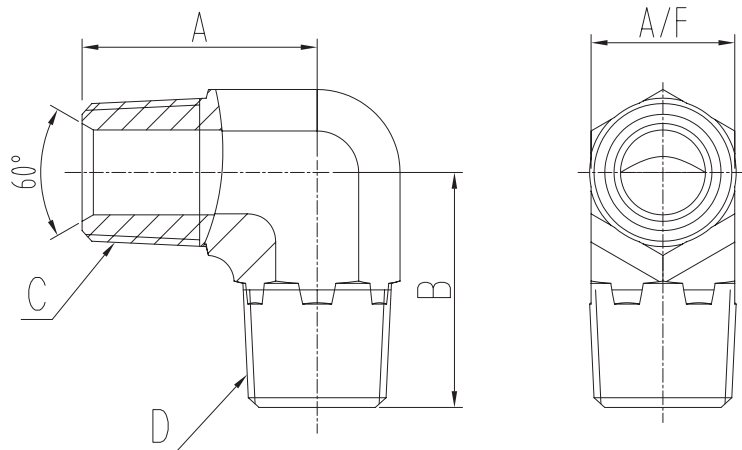
PEAL® Hydraulic Elbow JIC Male

Hydraulic Elbow JIC Male								
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	D	APPROX. KG/PC
HE09J	9/16	09	19	26.9	26.9	9/16 - 18	9/16 - 18	0.07
HE12J	3/4	12	19	32	32	3/4 - 16	3/4 - 16	0.10
HE14J	7/8	14	22	37.8	37.8	7/8 - 14	7/8 - 14	0.15
HE17J	1 1/16	17	27	44.2	44.2	1 1/16 - 12	1 1/16 - 12	0.26
HE21J	1 5/16	21	33	49	49	1 5/16 - 12	1 5/16 - 12	0.39



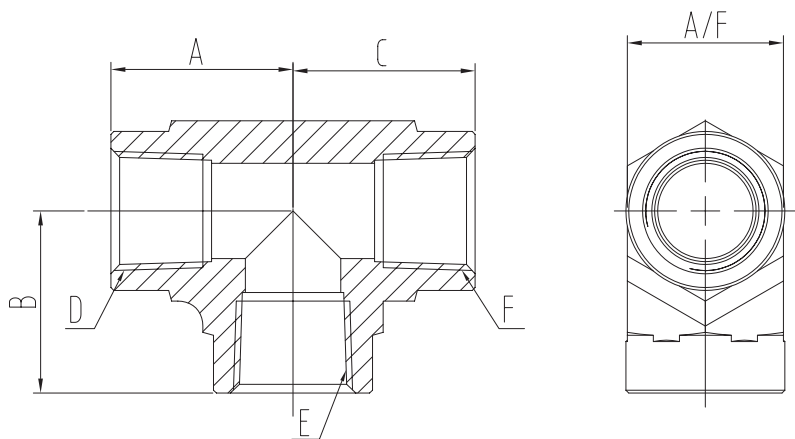
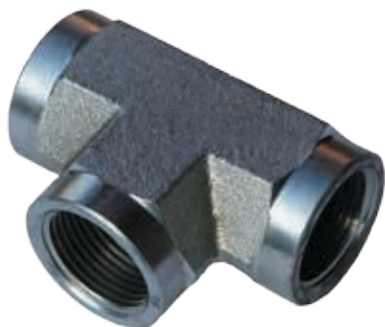
PEAL® Hydraulic Elbow BSPT Male

Hydraulic Elbow BSPT Male								
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	D	APPROX. KG/PC
HEM04B	1/4	04	19	25.5	25.5	1/4 - 19	1/4 - 19	0.07
HEM06B	3/8	06	19	28.5	28.5	3/8 - 19	3/8 - 19	0.09
HEM08B	1/2	08	22	36	36	1/2 - 14	1/2 - 14	0.14
HEM12B	3/4	12	27	43.5	43.5	3/4 - 14	3/4 - 14	0.24
HEM16B	1	16	33	50	50	1 - 11	1 - 11	0.37



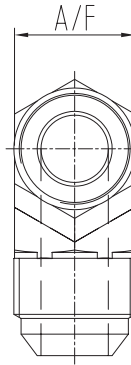
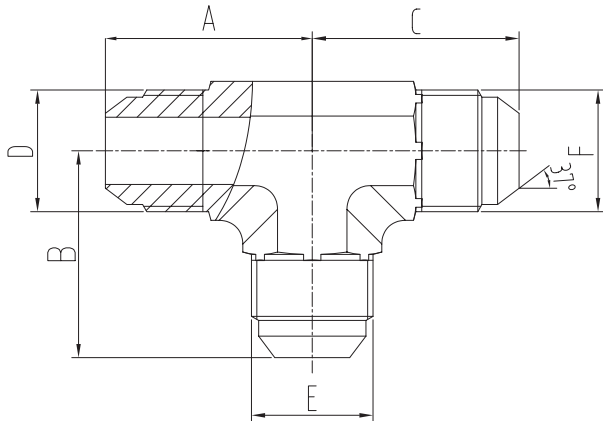
PEAL® Hydraulic Tee BSPT

Hydraulic Tee BSPT										
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	D	E	F	APPROX. KG/PC
HT04B	1/4	04	19	23.5	23.5	23.5	1/4 - 19	1/4 - 19	1/4 - 19	0.10
HT06B	3/8	06	22	26	26	26	3/8 - 19	3/8 - 19	3/8 - 19	0.12
HT08B	1/2	08	27	31.5	31.5	31.5	1/2 - 14	1/2 - 14	1/2 - 14	0.23
HT12B	3/4	12	33.5	35	35	35	3/4 - 14	3/4 - 14	3/4 - 14	0.35
HT16B	1	16	41	41.5	41.5	41.5	1 - 11	1 - 11	1 - 11	0.59



PEAL® Hydraulic Tee JIC Male

Hydraulic Tee JIC Male										
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	D	E	F	APPROX. KG/PC
HT09J	9/16	09	19	26.9	26.9	26.9	9/16 - 18	9/16 - 18	9/16 - 18	0.09
HT12J	3/4	12	19	32	32	32	3/4 - 16	3/4 - 16	3/4 - 16	0.13
HT14J	7/8	14	22	37.8	37.8	37.8	7/8 - 14	7/8 - 14	7/8 - 14	0.20
HT17J	1 1/16	17	27	44.2	44.2	44.2	1 1/16 - 12	1 1/16 - 12	1 1/16 - 12	0.34
HT21J	1 5/16	21	33	49	49	49	1 5/16 - 12	1 5/16 - 12	1 5/16 - 12	0.51



PEAL® Hydraulic Tee BSPT Male

Hydraulic Tee BSPT Male										
AAP CODE	IMPERIAL SIZE	DASH SIZE	A/F	A	B	C	D	E	F	APPROX. KG/PC
HTM04B	1/4	04	19	25.5	25.5	25.5	1/4 - 19	1/4 - 19	1/4 - 19	0.09
HTM06B	3/8	06	19	28.5	28.5	28.5	3/8 - 19	3/8 - 19	3/8 - 19	0.12
HTM08B	1/2	08	22	36	36	36	1/2 - 14	1/2 - 14	1/2 - 14	0.19
HTM12B	3/4	12	27	43.5	43.5	43.5	3/4 - 14	3/4 - 14	3/4 - 14	0.32
HTM16B	1	16	33	50	50	50	1 - 11	1 - 11	1 - 11	0.48

