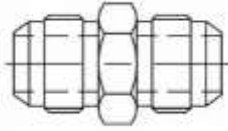


Section 4

Adaptors

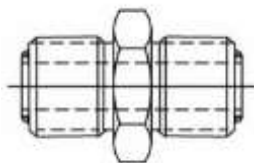


Nipple M/M JIC x JIC



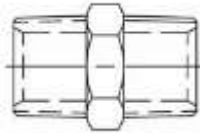
P/Number.....	Thread
C1-0707.....	7/16 x 7/16
C1-0808.....	1/2 x 1/2
C1-0907.....	9/16 x 7/16
C1-0909.....	9/16 x 9/16
C1-1207.....	3/4 x 7/16
C1-1209.....	3/4 x 9/16
C1-1212.....	3/4 x 3/4
C1-1412.....	7/8 x 3/4
C1-1414.....	7/8 x 7/8
C1-1709.....	1-1/16 x 9/16
C1-1712.....	1-1/16 x 3/4
C1-1714.....	1-1/16 x 7/8
C1-1717.....	1-1/16 x 1-1/16
C1-1917.....	1-3/16 x 1-1/16
C1-2114.....	1-5/16 x 7/8
C1-2117.....	1-5/16 x 1-1/16
C1-2119.....	1-5/16 x 1-3/16
C1-2121.....	1-5/16 x 1-5/16
C1-2621.....	1-5/8 x 1-5/16
C1-2626.....	1-5/8 x 1-5/8
C1-3026.....	1-7/8 x 1-5/8
C1-3030.....	1-7/8 x 1-7/8
C1-4040.....	2-1/2 x 2-1/2

Nipple M/M ORFS x ORFS



P/Number.....	Thread
F1-0909.....	9/16 x 9/16
F1-1111.....	11/16 x 11/16
F1-1313.....	13/16 x 13/16
F1-1616.....	1 x 1
F1-1916.....	1-3/16 x 1
F1-1919.....	1-3/16 x 1-3/16
F1-2323.....	1-7/16 x 1-7/16

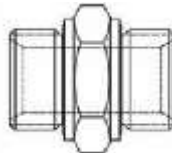
Nipple M/M BSPT x BSPT



P/Number.....	Thread
CB1-0202.....	1/8 x 1/8
CB1-0402.....	1/4 x 1/8
CB1-0402Z (1.6mm orifice) ..	1/4 x 1/8
CB1-0404.....	1/4 x 1/4
CB1-0604.....	3/8 x 1/4
CB1-0606.....	3/8 x 3/8
CB1-0804.....	1/2 x 1/4
CB1-0806.....	1/2 x 3/8
CB1-0808.....	1/2 x 1/2
CB1-1008.....	5/8 x 1/2
CB1-1010.....	5/8 x 5/8
CB1-1204.....	3/4 x 1/4
CB1-1206.....	3/4 x 3/8
CB1-1208.....	3/4 x 1/2
CB1-1212.....	3/4 x 3/4
CB1-1606.....	1 x 3/8
CB1-1608.....	1 x 1/2
CB1-1612.....	1 x 3/4
CB1-1616.....	1 x 1
CB1-2012.....	1-1/4 x 3/4
CB1-2016.....	1-1/4 x 1
CB1-2020.....	1-1/4 x 1-1/4
* CB1-2412.....	1-1/2 x 3/4
CB1-2416.....	1-1/2 x 1
CB1-2420.....	1-1/2 x 1-1/4
CB1-2424.....	1-1/2 x 1-1/2
* CB1-3220.....	2 x 1-1/4
CB1-3224.....	2 x 1-1/2
CB1-3232.....	2 x 2
CB1-4040.....	2-1/2 x 2-1/2

Nipple M/M BSPP x BSPP Encapsulated Seal

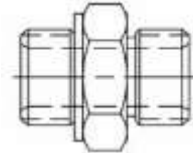
Included in the supply.



P/Number.....	Thread
CR1-0202.....	1/8 x 1/8
CR1-0404.....	1/4 x 1/4
CR1-0604.....	3/8 x 1/4
CR1-0606.....	3/8 x 3/8
CR1-0806.....	1/2 x 3/8
CR1-0808.....	1/2 x 1/2
CR1-1208.....	3/4 x 1/2
CR1-1212.....	3/4 x 3/4
CR1-1612.....	1 x 3/4
CR1-1616.....	1 x 1
CR1-2016.....	1-1/4 x 1
CR1-2020.....	1-1/4 x 1-1/4
CR1-2424.....	1-1/2 x 1-1/2

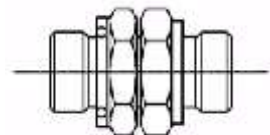
Nipple M/M BSPP x BSPP

Included in the supply is one 'O' Ring and Retainer Washer. Jump Threads are supplied with 'O' Ring & Retainer on large Thread only.



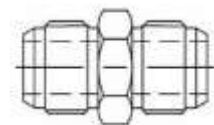
P/Number.....	Thread
CP1-0202.....	1/8 x 1/8
CP1-0404.....	1/4 x 1/4
CP1-0604.....	3/8 x 1/4
CP1-0606.....	3/8 x 3/8
CP1-0806.....	1/2 x 3/8
CP1-0808.....	1/2 x 1/2
CP1-1208.....	3/4 x 1/2
CP1-1212.....	3/4 x 3/4
CP1-1608.....	1 x 1/2
CP1-1612.....	1 x 3/4
CP1-1616.....	1 x 1
CP1-2016.....	1-1/4 x 1
CP1-2020.....	1-1/4 x 1-1/4
CP1-2420.....	1-1/2 x 1-1/4
CP1-2424.....	1-1/2 x 1-1/2
CP1-3232.....	2 x 2

Nipple M/M BSPP x BSPP Adjustable



P/Number.....	Thread
CR1-0606Z.....	3/8 x 3/8
CR1-0808Z.....	1/2 x 1/2

Nipple M/M JIS x JIS (BSPP x BSPP)



P/Number.....	Thread
CPJ1-0404.....	1/4 x 1/4
CPJ1-0606.....	3/8 x 3/8
CPJ1-0808.....	1/2 x 1/2
CPJ1-1212.....	3/4 x 3/4
CPJ1-1616.....	1 x 1



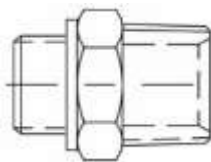
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*Manufactured To Order (minimum qtys may apply)

Section 4

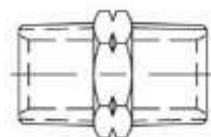
Adaptors

Nipple M/M BSPP x BSPT



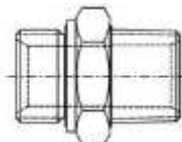
P/Number	Thread
CPB1-0204	1/8 x 1/4
CPB1-0404	1/4 x 1/4
CPB1-0406	1/4 x 3/8
CPB1-0604	3/8 x 1/4
CPB1-0606	3/8 x 3/8
CPB1-0608	3/8 x 1/2
CPB1-0804	1/2 x 1/4
CPB1-0806	1/2 x 3/8
CPB1-0808	1/2 x 1/2
CPB1-0812	1/2 x 3/4
CPB1-1208	3/4 x 1/2
CPB1-1212	3/4 x 3/4
CPB1-1216	3/4 x 1
CPB1-1608	1 x 1/2
CPB1-1612	1 x 3/4
CPB1-1616	1 x 1
CPB1-2016	1-1/4 x 1
CPB1-2020	1-1/4 x 1-1/4
CPB1-2420	1-1/2 x 1-1/4
CPB1-2424	1-1/2 x 1-1/2
CPB1-3220	2 x 1-1/4
* CPB1-3224	2 x 1-1/2
CPB1-3232	2 x 2

Nipple M/M NPTF x NPTF



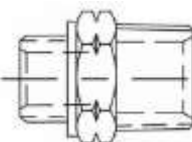
P/Number	Thread
CN1-0202	1/8 x 1/8
CN1-0402	1/4 x 1/8
CN1-0404	1/4 x 1/4
CN1-0604	3/8 x 1/4
CN1-0606	3/8 x 3/8
CN1-0806	1/2 x 3/8
CN1-0808	1/2 x 1/2
CN1-1204	3/4 x 1/4
* CN1-1206	3/4 x 3/8
CN1-1208	3/4 x 1/2
CN1-1212	3/4 x 3/4
CN1-1608	1 x 1/2
CN1-1612	1 x 3/4
CN1-1616	1 x 1
* CN1-2016	1-1/4 x 1
CN1-2020	1-1/4 x 1-1/4
CN1-2420	1-1/2 x 1-1/4
CN1-2424	1-1/2 x 1-1/2
CN1-3224	2 x 1-1/2
CN1-3232	2 x 2
* CN1-4040	2-1/2 x 2-1/2

Nipple M/M BSPP x BSPT Encapsulated Seal



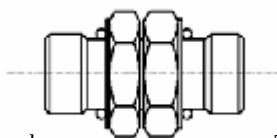
P/Number	Thread
CRB1-0604	3/8 x 1/4
CRB1-0606	3/8 x 3/8
* CRB1-0608	3/8 x 1/2
* CRB1-0806	1/2 x 3/8
CRB1-0808	1/2 x 1/2
CRB1-1212	3/4 x 3/4
CRB1-1616	1 x 1
* CRB1-2016	1-1/4 x 1
CRB1-2020	1-1/4 x 1-1/4

Nipple M/M BSPP x NPTF



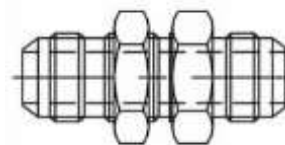
P/Number	Thread
CPN1-0404	1/4 x 1/4
* CPN1-0604	3/8 x 1/4
CPN1-0606	3/8 x 3/8
CPN1-0608	3/8 x 1/2
* CPN1-0806	1/2 x 3/8
CPN1-0808	1/2 x 1/2
* CPN1-0812	1/2 x 3/4
CPN1-1212	3/4 x 3/4
CPN1-1616	1 x 1
* CPN1-1620	1 x 1-1/4
* CPN1-2020	1-1/4 x 1-1/4
* CPN1-2024	1-1/4 x 1-1/2

Nipple M/M UNO x UNO Adjustable



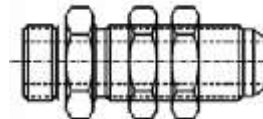
P/Number	Thread
CU1-0909	9/16 x 9/16
CU1-1212	3/4 x 3/4
CU1-1412	7/8 x 3/4
CU1-2121	1-5/16 x 1-5/16

Bulkhead Nipple M/M JIC x JIC



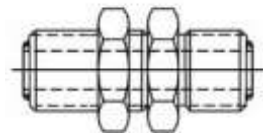
P/Number	Thread
C2-0707	7/16 x 7/16
C2-0707-E56	7/16 x 7/16
C2-0808	1/2 x 1/2
C2-0909	9/16 x 9/16
C2-0909-E59	9/16 x 9/16
C2-1212	3/4 x 3/4
C2-1212-E66	3/4 x 3/4
C2-1414	7/8 x 7/8
C2-1714	1-1/16 x 7/8
C2-1717	1-1/16 x 1-1/16
C2-1919	1-3/16 x 1-3/16
C2-2121	1-5/16 x 1-5/16
C2-2626	1-5/8 x 1-5/8
C2-3030	1-7/8 x 1-7/8
C2-4040	2-1/2 x 2-1/2

Bulkhead Nipple M/M UNO x JIC Extended



P/Number	Thread
* ZC2-1212	3/4 x 3/4
ZC2-1414	7/8 x 7/8
* ZC2-1717	1-1/16 x 1-1/16
* ZC2-2121	1-5/16 x 1-5/16

Bulkhead Nipple M/M ORFS x ORFS



P/Number	Thread
F2-0909	9/16 x 9/16
F2-1111	11/16 x 11/16
F2-1313	13/16 x 13/16
F2-1616	1 x 1
F2-1919	1-3/16 x 1-1/316
F2-2323	1-7/16 x 1-7/16
F2-2727	1-11/16 x 1-11/16

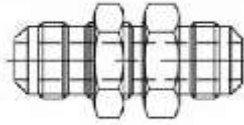
For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.

Section 4

Adaptors

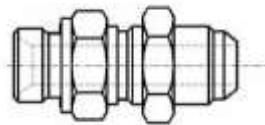


Bulkhead Nipple M/M SAE x SAE



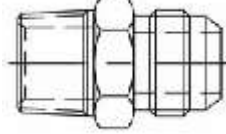
P/Number	Thread
CA2-1010	5/8 x 5/8
CA2-1212	3/4 x 3/4
CA2-1414	7/8 x 7/8
* CA2-1717	1-1/16 x 1-1/16

Bulkhead Nipple M/M BSPP x JIC



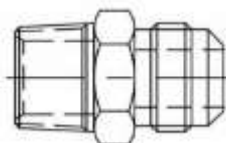
P/Number	Thread
* CR2-0609Z	3/8 x 9/16
CR2-0814Z	1/2 x 7/8

Nipple M/M BSPT x JIC



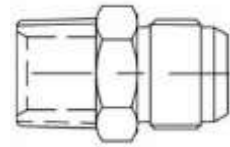
P/Number	Thread
CB2-0206	1/8 x 3/8
CB2-0207	1/8 x 7/16
CB2-0208	1/8 x 1/2
CB2-0209	1/8 x 9/16
CB2-0407	1/4 x 7/16
CB2-0408	1/4 x 1/2
CB2-0409	1/4 x 9/16
CB2-0412	1/4 x 3/4
CB2-0414	1/4 x 7/8
CB2-0607	3/8 x 7/16
CB2-0608	3/8 x 1/2
CB2-0609	3/8 x 9/16
CB2-0612	3/8 x 3/4
CB2-0614	3/8 x 7/8
CB2-0617	3/8 x 1-1/16
CB2-0807	1/2 x 7/16
CB2-0809	1/2 x 9/16
CB2-0812	1/2 x 3/4
CB2-0814	1/2 x 7/8
CB2-0817	1/2 x 1-1/16
CB2-0821	1/2 x 1-5/16
CB2-1208	3/4 x 1/2
CB2-1209	3/4 x 9/16
CB2-1212	3/4 x 3/4
CB2-1214	3/4 x 7/8
CB2-1217	3/4 x 1-1/16
* CB2-1219	3/4 x 1-3/16
CB2-1221	3/4 x 1-5/16
CB2-1612	1 x 3/4
CB2-1614	1 x 7/8
CB2-1617	1 x 1-1/16
CB2-1621	1 x 1-5/16
CB2-1626	1 x 1-5/8
CB2-2017	1-1/4 x 1-1/16
CB2-2021	1-1/4 x 1-5/16
CB2-2026	1-1/4 x 1-5/8
CB2-2030	1-1/4 x 1-7/8
* CB2-2040	1-1/4 x 2-1/2
CB2-2421	1-1/2 x 1-5/16
CB2-2426	1-1/2 x 1-5/8
CB2-2430	1-1/2 x 1-7/8
CB2-3230	2 x 1-7/8
CB2-3240	2 x 2-1/2

Nipple M/M BSPT x SAE



P/Number	Thread
CBA2-0410	1/4 x 5/8
CBA2-0610	3/8 x 5/8
CBA2-0810	1/2 x 5/8

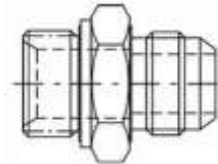
Nipple M/M BSPT x JIS



P/Number	Thread
CBJ2-0404	1/4 x 1/4
CBJ2-0606	3/8 x 3/8
CBJ2-0808	1/2 x 1/2
CBJ2-1212	3/4 x 3/4
CBJ2-1616	1 x 1

Nipple M/M BSPP x JIC Encapsulated Seal

Included in the supply



P/Number	Thread
CR2-0207	1/8 x 7/16
CR2-0209	1/8 x 9/16
CR2-0407	1/4 x 7/16
CR2-0408	1/4 x 1/2
CR2-0409	1/4 x 9/16
CR2-0412	1/4 x 3/4
CR2-0607	3/8 x 7/16
CR2-0609	3/8 x 9/16
CR2-0612	3/8 x 3/4
CR2-0614	3/8 x 7/8
CR2-0809	1/2 x 9/16
CR2-0812	1/2 x 3/4
CR2-0814	1/2 x 7/8
CR2-0817	1/2 x 1-1/16
CR2-1209	3/4 x 9/16
CR2-1212	3/4 x 3/4
CR2-1214	3/4 x 7/8
CR2-1217	3/4 x 1-1/16
CR2-1221	3/4 x 1-5/16
CR2-1612	1 x 3/4
CR2-1614	1 x 7/8
CR2-1617	1 x 1-1/16
CR2-1621	1 x 1-5/16
CR2-1626	1 x 1-5/8
CR2-2017	1-1/4 x 1-1/16
CR2-2021	1-1/4 x 1-5/16
CR2-2026	1-1/4 x 1-5/8
CR2-2030	1-1/4 x 1-7/8
CR2-2421	1-1/2 x 1-5/16
CR2-2426	1-1/2 x 1-5/8
CR2-2430	1-1/2 x 1-7/8



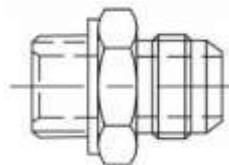
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*Manufactured To Order (minimum qtys may apply)

Section 4

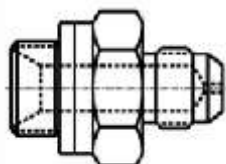
Adaptors

Nipple M/M BSPP x JIC



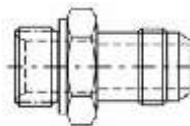
P/Number	Thread
CP2-0207	1/8 x 7/16
CP2-0209	1/8 x 9/16
CP2-0407	1/4 x 7/16
CP2-0408	1/4 x 1/2
CP2-0409	1/4 x 9/16
CP2-0412	1/4 x 3/4
CP2-0607	3/8 x 7/16
CP2-0609	3/8 x 9/16
CP2-0612	3/8 x 3/4
CP2-0614	3/8 x 7/8
CP2-0807	1/2 x 7/16
CP2-0809	1/2 x 9/16
CP2-0812	1/2 x 3/4
CP2-0814	1/2 x 7/8
CP2-0817	1/2 x 1-1/16
CP2-1209	3/4 x 9/16
CP2-1212	3/4 x 3/4
CP2-1214	3/4 x 7/8
CP2-1217	3/4 x 1-1/16
CP2-1221	3/4 x 1-5/16
CP2-1612	1 x 3/4
CP2-1614	1 x 7/8
CP2-1617	1 x 1-1/16
CP2-1621	1 x 1-5/16
CP2-1626	1 x 1-5/8
* CP2-2012	1-1/4 x 3/4
CP2-2017	1-1/4 x 1-1/16
CP2-2021	1-1/4 x 1-5/16
CP2-2026	1-1/4 x 1-5/8
CP2-2030	1-1/4 x 1-7/8
CP2-2040	1-1/4 x 2-1/2
CP2-2421	1-1/2 x 1-5/16
CP2-2426	1-1/2 x 1-5/8
CP2-2430	1-1/2 x 1-7/8
CP2-3226	2 x 1-5/8
CP2-3230	2 x 1-7/8
CP2-3240	2 x 2-1/2

Nipple M/M BSPP x JIC 1.5mm Orifice



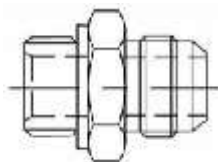
P/Number	Thread
ZCP2-0609 1.5MM.	3/8 x 9/16

Nipple M/M BSPP x JIC Extended



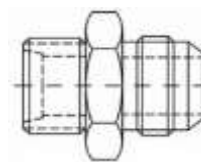
P/Number	Thread
* CP2-E90-0409	1/4 x 9/16
* CP2-E95-0409	1/4 x 9/16
* CP2-E160-0609	3/8 x 9/16
* CP2-E90-0609	3/8 x 9/16
* CP2-E70-0612	3/8 x 3/4
* CP2-E95-0612	3/8 x 3/4

Nipple M/M Metric Port Adaptor DIN x JIC



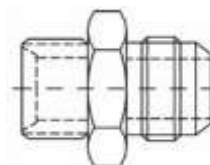
P/Number	Thread
CM2-0807	M8x1.0 x 7/16
CM2-0809	M8x1.0 x 9/16
CM2-1007	M10x1.0 x 7/16
CM2-1207	M12x1.5 x 7/16
CM2-1209	M12x1.5 x 9/16
CM2-1212	M12x1.5 x 3/4
CM2-1409	M14x1.5 x 9/16
CM2-1412	M14x1.5 x 3/4
CM2-1609	M16x1.5 x 9/16
CM2-1612	M16x1.5 x 3/4
CM2-1614	M16x1.5 x 7/8
CM2-1809	M18x1.5 x 9/16
CM2-1812	M18x1.5 x 3/4
CM2-1814	M18x1.5 x 7/8
CM2-1817	M18x1.5 x 1-1/16
ZCM2-2009	M20x1.5 x 9/16
CM2-2012	M20x1.5 x 1
CM2-2014	M20x1.5 x 7/8
CM2-2017	M20x1.5 x 1-1/16
CM2-2207	M22x1.5 x 7/16
CM2-2209	M22x1.5 x 9/16
CM2-2212	M22x1.5 x 3/4
CM2-2214	M22x1.5 x 7/8
CM2-2217	M22x1.5 x 1-1/16
CM2-2614	M26x1.5 x 7/8
CM2-2617	M26x1.5 x 1-1/16
CM2-2621	M26x1.5 x 1-5/16
CM2-2717	M27x2.0 x 1-1/16
CM2-2817	M28x2.0 x 1-1/16
CM2-2821	M28x2.0 x 1-5/16
CM2-3312	M33x2.0 x 3/4
CM2-3317	M33x2.0 x 1-1/16
CM2-3321	M33x2.0 x 1-5/16
CM2-3326	M33x2.0 x 1-5/8
CM2-4221	M42x2.0 x 1-5/16
CM2-4226	M42x2.0 x 1-5/8
CM2-4230	M42x2.0 x 1-7/8
CM2-4826	M48x2.0 x 1-5/8
CM2-4830	M48x2.0 x 1-7/8

Nipple M/M Metric Tube Adaptor Light Series DKL x JIC



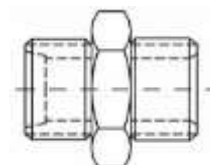
P/Number	Tube OD	Thread
* CM2L-1207	6L	M12x1.5 x 7/16
* CM2L-1209	6L	M12x1.5 x 9/16
CM2L-1409	8L	M14x1.5 x 9/16
* CM2L-1412	8L	M14x1.5 x 3/4
CM2L-1809	12L	M18x1.5 x 9/16
* CM2L-1812	12L	M18x1.5 x 3/4
CM2L-2212	15L	M22x1.5 x 3/4
* CM2L-2214	15L	M22x1.5 x 7/8

Nipple M/M Metric Tube Adaptor Strong Series DKS x JIC



P/Number	Tube OD	Thread
* CM2S-1809	10S	M18x1.5 x 9/16
* CM2S-2412	16S	M24x1.5 x 3/4
* CM2S-2417	16S	M24x1.5 x 1-1/16
* CM2S-3014	20S	M30x2.0 x 7/8
* CM2S-3617	25S	M36x2.0 x 1-1/16
* CM2S-4221	30S	M42x2.0 x 1-5/16

Nipple M/M Metric Tube Adaptor Light Series DKL x BSPP



P/Number	Tube OD	Thread
* CMP2L-1404	8L	M14x1.5 x 1/4
* CMP2L-1606	10L	M16x1.5 x 3/8
* CMP2L-1808	12L	M18x1.5 x 1/2
* CMP2L-2212	15L	M22x1.5 x 3/4
CMP2L-3012	22L	M30x2.0 x 3/4
CMP2L-3616	28L	M36x2.0 x 1

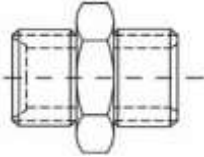
For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.

Section 4

Adaptors

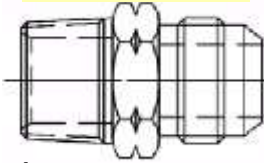


Nipple M/M Metric Tube Adaptor Strong Series DKS x BSPP



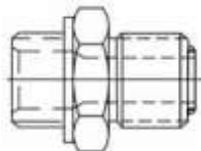
P/Number	Tube OD	Thread
* CMP2S-1604	8S	M16x1.5 x 1/4
* CMP2S-1804	10S	M18x1.5 x 1/4
* CMP2S-1806	10S	M18x1.5 x 3/8
* CMP2S-2006	12S	M20x1.5 x 3/8
* CMP2S-2208	14S	M22x1.5 x 1/2
* CMP2S-2406	16S	M24x1.5 x 3/8
* CMP2S-2408	16S	M24x1.5 x 1/2
* CMP2S-3012	20S	M30x2.0 x 3/4
* CMP2S-3612	25S	M36x2.0 x 3/4
* CMP2S-4220	30S	M42x2.0 x 1-1/4
* CMP2S-5224	38S	M52x2.0 x 1-1/2

Nipple M/M NPTF x JIC



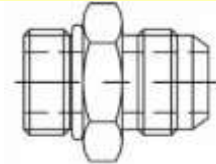
P/Number	Thread
CN2-0207	1/8 x 7/16
CN2-0208	1/8 x 1/2
CN2-0209	1/8 x 9/16
CN2-0407	1/4 x 7/16
CN2-0408	1/4 x 1/2
CN2-0409	1/4 x 9/16
CN2-0412	1/4 x 3/4
CN2-0607	3/8 x 7/16
* CN2-0608	3/8 x 1/2
CN2-0609	3/8 x 9/16
CN2-0612	3/8 x 3/4
CN2-0614	3/8 x 7/8
CN2-0617	3/8 x 1-1/16
CN2-0807	1/2 x 7/16
CN2-0809	1/2 x 9/16
CN2-0812	1/2 x 3/4
CN2-0814	1/2 x 7/8
CN2-0817	1/2 x 1-1/16
CN2-1207	3/4 x 7/16
CN2-1209	3/4 x 9/16
CN2-1212	3/4 x 3/4
CN2-1214	3/4 x 7/8
CN2-1217	3/4 x 1-1/16
* CN2-1219	3/4 x 1-3/16
CN2-1221	3/4 x 1-5/16
* CN2-1226	3/4 x 1-5/8
CN2-1614	1 x 7/8
CN2-1617	1 x 1-1/16
CN2-1621	1 x 1-5/16
CN2-1626	1 x 1-5/8
CN2-2017	1-1/4 x 1-1/16
CN2-2021	1-1/4 x 1-5/16
* CN2-2026	1-1/4 x 1-5/8
CN2-2030	1-1/4 x 1-7/8
CN2-2426	1-1/2 x 1-5/8
* CN2-2430	1-1/2 x 1-7/8
CN2-3230	2 x 1-7/8
CN2-3240	2 x 2-1/2

Nipple M/M BSPP x ORFS



P/Number	Thread
FP2-0409	1/4 x 9/16
FP2-0611	3/8 x 11/16
FP2-0811	1/2 x 11/16
FP2-0813	1/2 x 13/16
FP2-0816	1/2 x 1
FP2-0819	1/2 x 1-3/16
FP2-1216	3/4 x 1
FP2-1219	3/4 x 1-3/16
FP2-1623	1 x 1-7/16

Nipple M/M S.A.E. 'O' Ring Boss x JIC



P/Number	Thread
C3-0609	3/8 x 9/16
C3-0707	7/16 x 7/16
C3-0709	7/16 x 9/16
C3-0712	7/16 x 3/4
C3-0807	1/2 x 7/16
C3-0808	1/2 x 1/2
C3-0809	1/2 x 9/16
C3-0907	9/16 x 7/16
* C3-0908	9/16 x 1/2
C3-0909	9/16 x 9/16
C3-0912	9/16 x 3/4
C3-0914	9/16 x 7/8
C3-1207	3/4 x 7/16
C3-1208	3/4 x 1/2
C3-1209	3/4 x 9/16
C3-1212	3/4 x 3/4
C3-1214	3/4 x 7/8
C3-1217	3/4 x 1-1/16
C3-1221	3/4 x 1-5/16
C3-1409	7/8 x 9/16
C3-1412	7/8 x 3/4
C3-1414	7/8 x 7/8
C3-1417	7/8 x 1-1/16
C3-1421	7/8 x 1-5/16
C3-1707	1-1/16 x 7/16
C3-1709	1-1/16 x 9/16
C3-1712	1-1/16 x 3/4
C3-1714	1-1/16 x 7/8
C3-1717	1-1/16 x 1-1/16
C3-1721	1-1/16 x 1-5/16
C3-1917	1-3/16 x 1-1/16
C3-1919	1-3/16 x 1-3/16
C3-2112	1-5/16 x 3/4
C3-2114	1-5/16 x 7/8
C3-2117	1-5/16 x 1-1/16
C3-2119	1-5/16 x 1-3/16
C3-2121	1-5/16 x 1-5/16
C3-2126	1-5/16 x 1-5/8
C3-2617	1-5/8 x 1-1/16
C3-2621	1-5/8 x 1-5/16
C3-2626	1-5/8 x 1-5/8
C3-2630	1-5/8 x 1-7/8
C3-3021	1-7/8 x 1-5/16
C3-3026	1-7/8 x 1-5/8
C3-3030	1-7/8 x 1-7/8
* C3-3040	1-7/8 x 2-1/2
* C3-4030	2-1/2 x 1-7/8
* C3-4040	2-1/2 x 2-1/2



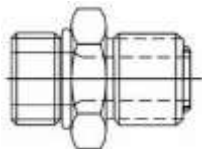
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*Manufactured To Order (minimum qtys may apply)

Section 4

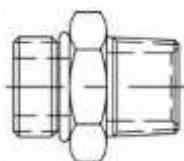
Adaptors

Nipple M/M S.A.E. 'O' Ring Boss x ORFS



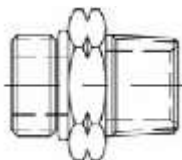
P/Number	Thread
F3-0709	7/16 x 9/16
F3-0711	7/16 x 11/16
F3-0909	9/16 x 9/16
F3-0911	9/16 x 11/16
* F3-1211	3/4 x 11/16
F3-1213	3/4 x 13/16
F3-1416	7/8 x 1
F3-1719	1-1/16 x 1-3/16
F3-1723	1-1/16 x 1-7/16
F3-2123	1-5/16 x 1-7/16

Nipple M/M S.A.E. 'O' Ring Boss x BSPT



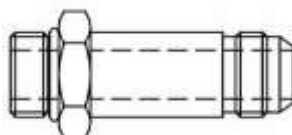
P/Number	Thread
CB3-0904	9/16 x 1/4
CB3-0906	9/16 x 3/8
CB3-0908	9/16 x 1/2
CB3-1204	3/4 x 1/4
CB3-1206	3/4 x 3/8
CB3-1208	3/4 x 1/2
CB3-1212	3/4 x 3/4
CB3-1404	7/8 x 1/4
CB3-1406	7/8 x 3/8
CB3-1408	7/8 x 1/2
CB3-1412	7/8 x 3/4
CB3-1708	1-1/16 x 1/2
CB3-1712	1-1/16 x 3/4
CB3-1716	1-1/16 x 1
CB3-1912	1-3/16 x 3/4
CB3-2108	1-5/16 x 1/2
CB3-2112	1-5/16 x 3/4
CB3-2116	1-5/16 x 1
CB3-2120	1-5/16 x 1-1/4
CB3-2616	1-5/8 x 1
CB3-2620	1-5/8 x 1-1/4
CB3-2624	1-5/8 x 1-1/2
CB3-3024	1-7/8 x 1-1/2

Nipple M/M S.A.E. 'O' Ring Boss x NPTF



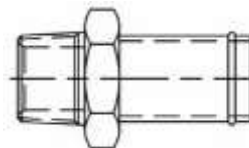
P/Number	Thread
CN3-0904	9/16 x 1/4
CN3-0906	9/16 x 3/8
* CN3-1204	3/4 x 1/4
CN3-1206	3/4 x 3/8
* CN3-1208	3/4 x 1/2
CN3-1404	7/8 x 1/4
CN3-1406	7/8 x 3/8
* CN3-1408	7/8 x 1/2
* CN3-1412	7/8 x 3/4
CN3-1708	1-1/16 x 1/2
* CN3-1712	1-1/16 x 3/4
CN3-1716	1-1/16 x 1
CN3-2112	1-5/16 x 3/4
* CN3-2116	1-5/16 x 1
CN3-2120	1-5/16 x 1-1/4
* CN3-2616	1-5/8 x 1
* CN3-2620	1-5/8 x 1-1/4
CN3-2624	1-5/8 x 1-1/2
* CN3-3024	1-7/8 x 1-1/2

Extended Nipple M/M S.A.E. 'O' Ring Boss x JIC



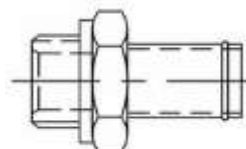
P/Number	Thread
* C4-0707	7/16 x 7/16
C4-0808	1/2 x 1/2
C4-0907	9/16 x 7/16
C4-0909	9/16 x 9/16
C4-1212	3/4 x 3/4
C4-1412	7/8 x 3/4
C4-1414	7/8 x 7/8
C4-1417	7/8 x 1-1/16
* C4-1714	1-1/16 x 7/8
C4-1717	1-1/16 x 1-1/16
* C4-2117	1-5/16 x 1-1/16
C4-2121	1-5/16 x 1-5/16
* C4-2626	1-5/8 x 1-5/8

Clamp-on Hosetail M/M BSPT x Tail



P/Number	Thread	Hose
CB4-0404	1/4	1/4
CB4-0406	1/4	3/8
CB4-0408	1/4	1/2
CB4-0604	3/8	1/4
CB4-0606	3/8	3/8
CB4-0608	3/8	1/2
CB4-0610	3/8	5/8
CB4-0806	1/2	3/8
CB4-0808	1/2	1/2
CB4-0810	1/2	5/8
CB4-0812	1/2	3/4
CB4-0816	1/2	1
CB4-1212	3/4	3/4
CB4-1216	3/4	1
CB4-1220	3/4	1-1/4
CB4-1612	1	3/4
CB4-1616	1	1
CB4-1620	1	1-1/4
CB4-1624	1	1-1/2
CB4-2016	1-1/4	1
CB4-2020	1-1/4	1-1/4
CB4-2024	1-1/4	1-1/2
CB4-2420	1-1/2	1-1/4
CB4-2424	1-1/2	1-1/2
CB4-2432	1-1/2	2
* CB4-2440	1-1/2	2-1/2
CB4-3232	2	2
* CB4-3240	2	2-1/2
* CB4-4040	2-1/2	2-1/2

Clamp-on Hosetail M/M Metric x Tail



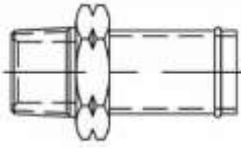
P/Number	Thread	Hose
CM4-3316	M33	1
CM4-3324	M33	1-1/2

Section 4

Adaptors

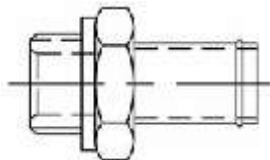


Clamp-on Hosetail M/M NPTF x Tail



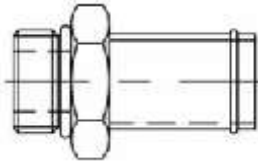
P/Number	Thread	Hose
* CN4-0404	1/4	1/4
CN4-0406	1/4	3/8
CN4-0606	3/8	3/8
CN4-0608	3/8	1/2
CN4-0610	3/8	5/8
* CN4-0808	1/2	1/2
* CN4-0810	1/2	5/8
CN4-1212	3/4	3/4
CN4-1216	3/4	1
CN4-1616	1	1
CN4-1620	1	1-1/4
CN4-1624	1	1-1/2
CN4-1626	1	1-5/8
CN4-2020	1-1/4	1-1/4
CN4-2024	1-1/4	1-1/2
CN4-2416	1-1/2	1
CN4-2420	1-1/2	1-1/4
CN4-2424	1-1/2	1-1/2
CN4-2432	1-1/2	2
CN4-3232	2	2

Clamp-on Hosetail M/M BSPP x Tail



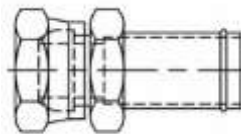
P/Number	Thread	Hose
CP4-0612	3/8	3/4
CP4-0812	1/2	3/4
CP4-0816	1/2	1
CP4-0820	1/2	1-1/4
CP4-1212	3/4	3/4
CP4-1216	3/4	1
CP4-1220	3/4	1-1/4
CP4-1224	3/4	1-1/2
CP4-1616	1	1
CP4-1620	1	1-1/4
CP4-1624	1	1-1/2
CP4-2016	1-1/4	1
CP4-2020	1-1/4	1-1/4
CP4-2024	1-1/4	1-1/2
* CP4-2032	1-1/4	2
CP4-2424	1-1/2	1-1/2
CP4-2432	1-1/2	2
CP4-3232	2	2

Clamp-on Hosetail M/M S.A.E. 'O' Ring Boss x Tail



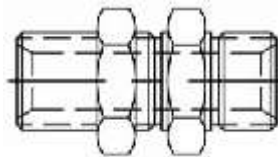
P/Number	Thread	Hose
C5-1208	3/4	1/2
C5-1212	3/4	3/4
C5-1408	7/8	1/2
C5-1412	7/8	3/4
C5-1420	7/8	1-1/4
* C5-1712	1-1/16	3/4
C5-1716	1-1/16	1
C5-1720	1-1/16	1-1/4
* C5-2112	1-5/16	3/4
C5-2116	1-5/16	1
C5-2120	1-5/16	1-1/4
C5-2124	1-5/16	1-1/2
C5-2620	1-5/8	1-1/4
C5-2624	1-5/8	1-1/2
C5-3024	1-7/8	1-1/2
* C5-3032	1-7/8	2

Clamp-on Hosetail F/M BSPT x Tail



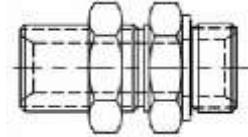
P/Number	Thread	Hose
CB5-1212	3/4	3/4
CB5-1616	1	1
CB5-2020	1-1/4	1-1/4

Bulkhead Nipple M/M BSPP x BSPP



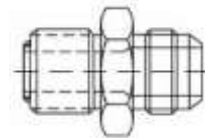
P/Number	Thread
CP6-0404	1/4 x 1/4
CP6-0606	3/8 x 3/8
CP6-0808	1/2 x 1/2
CP6-1212	3/4 x 3/4
CP6-1616	1 x 1
CP6-2020	1-1/4 x 1-1/4

Bulkhead Nipple M/M BSPP x BSPP Encapsulated Seal



P/number	Thread
* CR6-0404	1/4 x 1/4
CR6-0606	3/8 x 3/8
CR6-0808	1/2 x 1/2
CR6-1212	3/4 x 3/4
CR6-1616	1 x 1

Nipple M/M ORFS x JIC



P/Number	Thread
F7-0709	7/16 x 9/16
* F7-0907	9/16 x 7/16
F7-1109	11/16 x 9/16
F7-1312	13/16 x 3/4
F7-1314	13/16 x 7/8
F7-1614	1 x 7/8
F7-1917	1-3/16 x 1-1/16
F7-2321	1-7/16 x 1-5/16



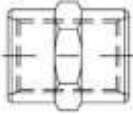
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*Manufactured To Order (minimum qtys may apply)

Section 4

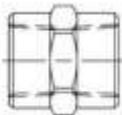
Adaptors

Socket F/F S.A.E. 'O' Ring



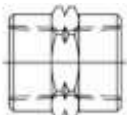
P/Number	Thread
C9-0707	7/16 x 7/16
C9-0909	9/16 x 9/16
C9-1212	3/4 x 3/4
C9-1414	7/8 x 7/8
C9-1717	1-1/16 x 1-1/16
C9-2121	1-5/16 x 1-5/16
* C9-2626	1-5/8 x 1-5/8

Socket F/F BSPT



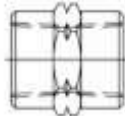
P/Number	Thread
CB9-0202	1/8 x 1/8
CB9-0402	1/4 x 1/8
CB9-0404	1/4 x 1/4
CB9-0602	3/8 x 1/8
CB9-0604	3/8 x 1/4
CB9-0606	3/8 x 3/8
CB9-0804	1/2 x 1/4
CB9-0806	1/2 x 3/8
CB9-0808	1/2 x 1/2
CB9-1208	3/4 x 1/2
CB9-1212	3/4 x 3/4
CB9-1612	1 x 3/4
CB9-1616	1 x 1
CB9-2020	1-1/4 x 1-1/4
CB9-2424	1-1/2 x 1-1/2
CB9-3232	2 x 2
CB9-4040	2-1/2 x 2-1/2
3 x 3	

Socket F/F NPTF



P/Number	Thread
CN9-0202	1/8 x 1/8
CN9-0404	1/4 x 1/4
CN9-0606	3/8 x 3/8
CN9-0808	1/2 x 1/2
CN9-1212	3/4 x 3/4
CN9-1616	1 x 1
CN9-2020	1-1/4 x 1-1/4
CN9-2424	1-1/2 x 1-1/2
CN9-3232	2 x 2
* CN9-4040	2-1/2 x 2-1/2
CN9-4848	3 x 3

Socket F/F BSPP



P/Number	Thread
CP9-0404	1/4 x 1/4
CP9-0606	3/8 x 3/8
CP9-0808	1/2 x 1/2
CP9-1212	3/4 x 3/4
CP9-1616	1 x 1
CP9-2020	1-1/4 x 1-1/4
CP9-2424	1-1/2 x 1-1/2
CP9-3232	2 x 2
3 x 3	

Half Socket F S.A.E. 'O' Ring



P/Number	Thread
C14-07	7/16
C14-08	1/2
C14-09	9/16
C14-12	3/4
C14-14	7/8
C14-17	1-1/16
C14-21	1-5/16
C14-26	1-5/8
1-7/8	

Half Socket F BSPT



P/Number	Thread
CB14-02	1/8
CB14-04	1/4
CB14-06	3/8
CB14-08	1/2
CB14-12	3/4
CB14-16	1
CB14-20	1-1/4
CB14-24	1-1/2
CB14-32	2

Half Socket F BSPP



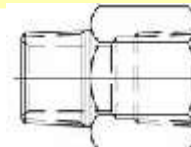
P/Number	Thread
* CP14-06	3/8
CP14-08	1/2
CP14-12	3/4
CP14-16	1
* CP14-20	1-1/4

Half Socket F NPTF



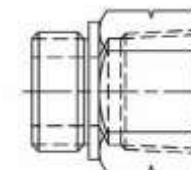
P/Number	Thread
CN14-02	1/8
CN14-04	1/4
CN14-06	3/8
CN14-08	1/2
CN14-12	3/4
CN14-16	1
* CN14-20	1-1/4
* CN14-24	1-1/2
CN14-32	2

Adaptor Fixed M/F BSPT x BSPT



P/Number	Thread
CB18-0202	1/8 x 1/8
CB18-0204	1/8 x 1/4
CB18-0404	1/4 x 1/4
CB18-0406	1/4 x 3/8
CB18-0606	3/8 x 3/8
CB18-0608	3/8 x 1/2
CB18-0808	1/2 x 1/2
CB18-0812	1/2 x 3/4
CB18-1212	3/4 x 3/4
CB18-1616	1 x 1

Adaptor Fixed M/F BSPP x NPTF



P/Number	Thread
CPN18-2016	1-1/4 x 1
CPN18-2024	1-1/4 x 1-1/2

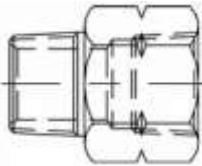
For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.

Section 4

Adaptors

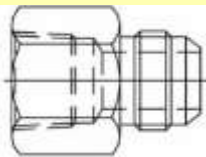


Adaptor Fixed M/F NPTF x NPTF



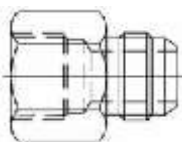
P/Number	Thread
CN18-0202	1/8 x 1/8
CN18-0204	1/8 x 1/4
CN18-0404	1/4 x 1/4
CN18-0406	1/4 x 3/8
CN18-0606	3/8 x 3/8
CN18-0608	3/8 x 1/2
CN18-0808	1/2 x 1/2
CN18-0812	1/2 x 3/4
CN18-1212	3/4 x 3/4
* CN18-1616	1 x 1
* CN18-2020	1-1/4 x 1-1/4
* CN18-2424	1-1/2 x 1-1/2

Adaptor Fixed F/M BSPT x JIC



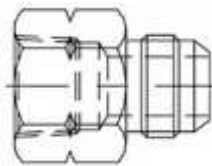
P/Number	Thread
CB20-0207	1/8 x 7/16
CB20-0209	1/8 x 9/16
CB20-0407	1/4 x 7/16
CB20-0408	1/4 x 1/2
CB20-0409	1/4 x 9/16
CB20-0609	3/8 x 9/16
CB20-0612	3/8 x 3/4
CB20-0809	1/2 x 9/16
CB20-0812	1/2 x 3/4
CB20-0814	1/2 x 7/8
CB20-0817	1/2 x 1-1/16
CB20-1217	3/4 x 1-1/16
CB20-1621	1 x 1-5/16

Gauge Adaptor Fixed F/M BSPP x JIC



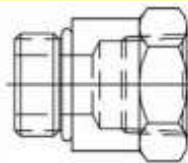
P/Number	Thread
CP20-0407G	1/4 x 7/16
CP20-0409G	1/4 x 9/16
CP20-0809G	1/2 x 9/16

Adaptor Fixed F/M NPTF x JIC



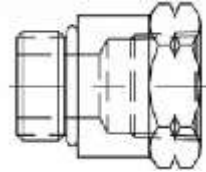
P/Number	Thread
CN20-0207	1/8 x 7/16
CN20-0208	1/8 x 1/2
CN20-0209	1/8 x 9/16
CN20-0407	1/4 x 7/16
CN20-0408	1/4 x 1/2
CN20-0409	1/4 x 9/16
CN20-0609	3/8 x 9/16
CN20-0612	3/8 x 3/4
CN20-0812	1/2 x 3/4
CN20-0814	1/2 x 7/8
CN20-1217	3/4 x 1-1/16
CN20-1621	1 x 1-5/16
* CN20-2026	1-1/4 x 1-5/8
* CN20-2430	1-1/2 x 1-7/8
CN20-3240	2 x 2-1/2

Adaptor Fixed M/F S.A.E. 'O' Ring Boss x BSPT



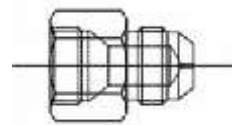
P/Number	Thread
CB21-0704	7/16 x 1/4
CB21-0904	9/16 x 1/4
CB21-0906	9/16 x 3/8
CB21-1206	3/4 x 3/8
CB21-1208	3/4 x 1/2
CB21-1406	7/8 x 3/8
CB21-1408	7/8 x 1/2
CB21-1708	1-1/16 x 1/2
CB21-1712	1-1/16 x 3/4

Adaptor Fixed M/F S.A.E. 'O' Ring Boss x NPTF



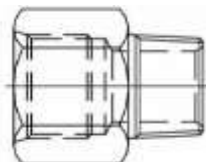
P/Number	Thread
* CN21-0704	7/16 x 1/4
* CN21-0904	9/16 x 1/4
* CN21-0906	9/16 x 3/8
* CN21-1206	3/4 x 3/8
* CN21-1208	3/4 x 1/2
CN21-1408	7/8 x 1/2
* CN21-1708	1-1/16 x 1/2
* CN21-1712	1-1/16 x 3/4
* CN21-1716	1-1/16 x 1
CN21-2112	1-5/16 x 3/4
* CN21-2116	1-5/16 x 1
* CN21-2616	1-5/8 x 1
* CN21-2620	1-5/8 x 1-1/4

Adaptor Fixed F/M JIC x JIC



P/Number	Thread
* C22-0707	7/16 x 7/16
* C22-0909	9/16 x 9/16
* C22-1212	3/4 x 3/4
* C22-1414	7/8 x 7/8
C22-1717	1-1/16 x 1-1/16
* C22-2121	1-5/16 x 1-5/16
C22-0707Z (0.6mm orifice)	7/16x7/16
C22-0909Z (0.9mm orifice)	9/16x9/16
C22-1212Z (0.9mm orifice)	3/4x3/4
C22-1414Z (1.2mm orifice)	7/8x7/8

Adaptor Fixed F/M S.A.E. 'O' Ring Boss x BSPT



P/Number	Thread
CB22-0906	9/16 x 3/8
CB22-1206	3/4 x 3/8
CB22-1208	3/4 x 1/2
CB22-1406	7/8 x 3/8
CB22-1408	7/8 x 1/2
CB22-1712	1-1/16 x 3/4
CB22-2116	1-5/16 x 1



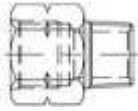
M.B. BUTTERFIELD
HYDRAULIC ENGINEERS

*Manufactured To Order (minimum qtls may apply)

Section 4

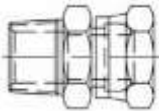
Adaptors

Adaptor F/M S.A.E. 'O' Ring Boss x NPTF



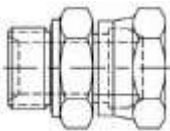
P/Number Thread
CN22-1712 1-1/16 x 3/4

Straight Union M/F BSPT x BSPP



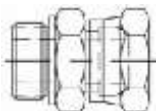
P/Number Thread
CB24-0202 1/8 x 1/8
CB24-0404 1/4 x 1/4
CB24-0606 3/8 x 3/8
CB24-0608 3/8 x 1/2
CB24-0806 1/2 x 3/8
CB24-0808 1/2 x 1/2
CB24-1212 3/4 x 3/4
CB24-1216 3/4 x 1
CB24-1616 1 x 1
CB24-1620 1 x 1-1/4
CB24-1624 1 x 1-1/2
CB24-2020 1-1/4 x 1-1/4
CB24-2424 1-1/2 x 1-1/2

Straight Union M/F BSPP x BSPP Encapsulated Seal



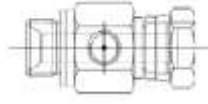
P/Number Thread
CR24-0404 1/4 x 1/4
CR24-0606 3/8 x 3/8
CR24-0608 3/8 x 1/2
CR24-0808 1/2 x 1/2
CR24-1212 3/4 x 3/4
CR24-1616 1 x 1
CR24-2020 1-1/4 x 1-1/4

Straight Union M/F BSPP x BSPP



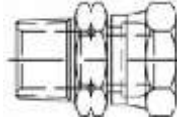
P/Number Thread
CP24-0404 1/4 x 1/4
CP24-0606 3/8 x 3/8
CP24-0608 3/8 x 1/2
CP24-0808 1/2 x 1/2
CP24-1212 3/4 x 3/4
CP24-1616 1 x 1
CP24-1620 1 x 1-1/4
CP24-2020 1-1/4 x 1-1/4

Straight Union M/F BSPP x BSPP with 7/16" UNO Gauge Point



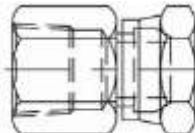
P/Number Thread
CP24G-040407 1/4 x 1/4 x 7/16
CP24G-060607 3/8 x 3/8 x 7/16
CP24G-080807 1/2 x 1/2 x 7/16
CP24G-121207 3/4 x 3/4 x 7/16
CP24G-161607 1 x 1 x 7/16
CP24G-202007 1-1/4 x 1-1/4 x 7/16

Straight Union M/F NPTF x NPSM



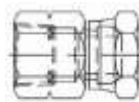
P/Number Thread
CN24-0202 1/8 x 1/8
CN24-0404 1/4 x 1/4
CN24-0606 3/8 x 3/8
* CN24-0608 3/8 x 1/2
CN24-0808 1/2 x 1/2
CN24-1212 3/4 x 3/4
CN24-1616 1 x 1
CN24-2020 1-1/4 x 1-1/4
CN24-2424 1-1/2 x 1-1/2

Straight Union F/F BSPT x BSPP



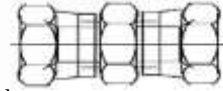
P/Number Thread
CB25-0404 1/4 x 1/4
CB25-0606 3/8 x 3/8
CB25-0808 1/2 x 1/2
CB25-1212 3/4 x 3/4
CB25-1616 1 x 1

Straight Union F/F NPTF x NPSM



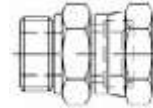
P/Number Thread
* CN25-0404 1/4 x 1/4
CN25-0606 3/8 x 3/8
CN25-0808 1/2 x 1/2
CN25-1212 3/4 x 3/4
CN25-1616 1 x 1

Straight Union F/F SWIVEL x JIC



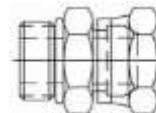
P/Number Thread
CS25-0707 7/16 x 7/16
CS25-0909 9/16 x 9/16
CS25-1212 3/4 x 3/4
CS25-1414 7/8 x 7/8
CS25-1717 1-1/16 x 1-1/16
CS25-2121 1-5/16 x 1-5/16

Straight Union M/F S.A.E. 'O' Ring Boss x JIC



P/Number Thread
C26-0707 7/16 x 7/16
C26-0909 9/16 x 9/16
C26-0912 9/16 x 3/4
C26-1209 3/4 x 9/16
C26-1212 3/4 x 3/4
C26-1414 7/8 x 7/8
C26-1417 7/8 x 1-1/16
C26-1717 1-1/16 x 1-1/16
C26-2121 1-5/16 x 1-5/16
C26-2626 1-5/8 x 1-5/8
* C26-3030 1-7/8 x 1-7/8

Straight Union M/F S.A.E. 'O' Ring Boss x BSPP

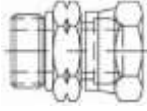


P/Number Thread
CB26-0704 7/16 x 1/4
CB26-0904 9/16 x 1/4
CB26-1206 3/4 x 3/8
CB26-1208 3/4 x 1/2
CB26-1406 7/8 x 3/8
CB26-1408 7/8 x 1/2
* CB26-1412 7/8 x 3/4
CB26-1712 1-1/16 x 3/4
CB26-2116 1-5/16 x 1
* CB26-2620 1-5/8 x 1-1/4

Section 4 Adaptors

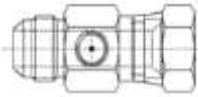


Straight Union M/F S.A.E. 'O' Ring Boss x NPSM



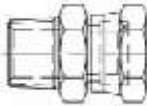
P/Number	Thread
* CN26-1206	3/4 x 3/8
CN26-1208	3/4 x 1/2
* CN26-1408	7/8 x 1/2
* CN26-1412	7/8 x 3/4
* CN26-1712	1-1/16 x 3/4
* CN26-2116	1-5/16 x 1
CN26-2620	1-5/8 x 1-1/4

Straight Union M/F JIC x JIC with 7/16" UNO Gauge Point



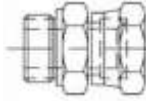
P/Number	Thread
C27G-070707	7/16 x 7/16 x 7/16
C27G-090907	9/16 x 9/16 x 7/16
C27G-121207	3/4 x 3/4 x 7/16
C27G-141407	7/8 x 7/8 x 7/16
C27G-171707	1-1/16 x 1-1/16 x 7/16
C27G-212107	1-5/16 x 1-5/16 x 7/16
C27G-262607	1-5/8 x 1-5/8 x 7/16

Straight Union M/F BSPT x JIC



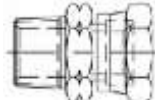
P/Number	Thread
CB27-0207	1/8 x 7/16
CB27-0407	1/4 x 7/16
CB27-0409	1/4 x 9/16
CB27-0609	3/8 x 9/16
CB27-0612	3/8 x 3/4
CB27-0614	3/8 x 7/8
CB27-0812	1/2 x 3/4
CB27-0814	1/2 x 7/8
CB27-0817	1/2 x 1-1/16
CB27-1217	3/4 x 1-1/16
CB27-1621	1 x 1-5/16
CB27-2026	1-1/4 x 1-5/8

Straight Union M/F BSPP x JIC



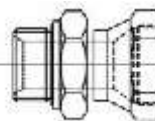
P/Number	Thread
CP27-0407	1/4 x 7/16
CP27-0409	1/4 x 9/16
CP27-0609	3/8 x 9/16
CP27-0612	3/8 x 3/4
CP27-0614	3/8 x 7/8
CP27-0812	1/2 x 3/4
CP27-0814	1/2 x 7/8
CP27-1214	3/4 x 7/8
CP27-1217	3/4 x 1-1/16
CP27-1617	1 x 1-1/16
CP27-1621	1 x 1-5/16
CP27-1626	1 x 1-5/8
CP27-2021	1-1/4 x 1-5/16
CP27-2026	1-1/4 x 1-5/8
CP27-2430	1-1/2 x 1-7/8

Straight Union M/F NPTF x JIC



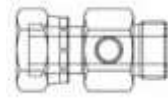
P/Number	Thread
CN27-0407	1/4 x 7/16
CN27-0409	1/4 x 9/16
CN27-0609	3/8 x 9/16
CN27-0612	3/8 x 3/4
CN27-0812	1/2 x 3/4
CN27-0814	1/2 x 7/8
CN27-1217	3/4 x 1-1/16
CN27-1621	1 x 1-5/16

Straight Union M/F BSPP x JIC Encapsulated Seal



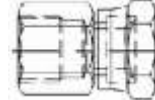
P/Number	Thread
CR27-0407	1/4 x 7/16
CR27-0409	1/4 x 9/16
CR27-0609	3/8 x 9/16
CR27-0612	3/8 x 3/4
CR27-0614	3/8 x 7/8
CR27-0812	1/2 x 3/4
CR27-0814	1/2 x 7/8
* CR27-1214	3/4 x 7/8
* CR27-1217	3/4 x 1-1/16
CR27-1617	1 x 1-1/16
CR27-1621	1 x 1-5/16
CR27-2026	1-1/4 x 1-5/8

Straight Union M/F ORFS x ORFS with 7/16" UNO Gauge Point



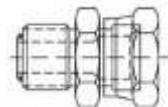
P/Number	Thread
F27G-111107	11/16 x 11/16 x 7/16
F27G-131307	13/16 x 13/16 x 7/16
F27G-161607	1 x 1 x 7/16
F27G-191907	1-3/16 x 1-3/16 x 7/16
F27G-232307	1-7/16 x 1-7/16 x 7/16
F27G-272707	1-11/16 x 1-11/16 x 7/16

Gauge Adaptor Union F/F BSPP x JIC Gauge



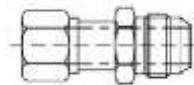
P/Number	Thread
CP28-0409G	1/4 x 9/16

Straight Union M/F ORFS x JIC



P/Number	Thread
F28-1109	11/16 x 9/16
F28-1312	13/16 x 3/4
F28-1614	1 x 7/8
* F28-1917	1-3/16 x 1-1/16
F28-2321	1-7/16 x 1-5/16

Straight Union F/M ORFS x JIC



P/Number	Thread
F29-0907	9/16 x 7/16
F29-1109	11/16 x 9/16
F29-1312	13/16 x 3/4
F29-1614	1 x 7/8
F29-1917	1-3/16 x 1-1/16
F29-2321	1-7/16 x 1-5/16
* F29-2726	1-11/16 x 1-5/8



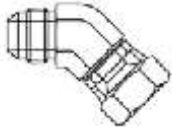
M.B. BUTTERFIELD
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*Manufactured To Order (minimum qtys may apply)

Section 4

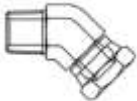
Adaptors

45 deg Union M/F JIC x JIC



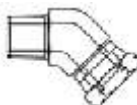
P/Number.....	Thread
C30-0707F.....	7/16 x 7/16
C30-0709F.....	7/16 x 9/16
C30-0808F.....	5/8 x 5/8
C30-0909F.....	9/16 x 9/16
C30-1212F.....	3/4 x 3/4
C30-1412F.....	7/8 x 3/4
C30-1414F.....	7/8 x 7/8
C30-1717F.....	1-1/16 x 1-1/16
C30-2121F.....	1-5/16 x 1-5/16
C30-2626F.....	1-5/8 x 1-5/8
C30-3030.....	1-7/8 x 1-7/8
C30-4040.....	2-1/2 x 2-1/2

45 deg Union M/F BSPT x BSPP



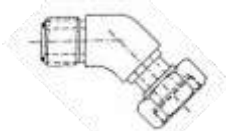
P/Number.....	Thread
CB30-0202F.....	1/8 x 1/8
CB30-0404F.....	1/4 x 1/4
CB30-0606F.....	3/8 x 3/8
CB30-0808F.....	1/2 x 1/2
CB30-1212F.....	3/4 x 3/4
CB30-1616F.....	1 x 1

45 deg Union M/F NPTF x NPSM



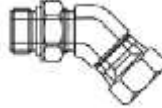
P/Number.....	Thread
CN30-0202.....	1/8 x 1/8
* CN30-0404.....	1/4 x 1/4
* CN30-0606.....	3/8 x 3/8
* CN30-0808.....	1/2 x 1/2
* CN30-1212.....	3/4 x 3/4
* CN30-1616.....	1 x 1

45 deg Union M/F ORFS x ORFS



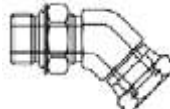
P/Number.....	Thread
F30-0909.....	9/16 x 9/16
F30-1111.....	11/16 x 11/16
F30-1313.....	13/16 x 13/16
F30-1616.....	1 x 1
F30-1919.....	1-3/16 x 1-3/16
F30-2323.....	1-7/16 x 1-7/16

45 deg Union M/F S.A.E. 'O' Ring Boss x JIC



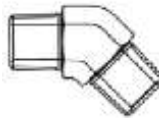
P/Number.....	Thread
C31-0909.....	9/16 x 9/16
C31-1212.....	3/4 x 3/4
C31-1414.....	7/8 x 7/8
* C31-1717.....	1-1/16 x 1-1/16
C31-2121.....	1-5/16 x 1-5/16

45 deg Union M/F S.A.E. 'O' Ring Boss x NPSM



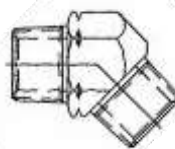
P/Number.....	Thread
CN31-1208.....	3/4 x 1/2
CN31-1408.....	7/8 x 1/2

45 deg Elbow M/M BSPT x BSPT



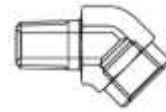
P/Number.....	Thread
CB36-0202F.....	1/8 x 1/8
CB36-0404F.....	1/4 x 1/4
CB36-0606F.....	3/8 x 3/8
CB36-0808F.....	1/2 x 1/2
CB36-1208F.....	3/4 x 1/2
CB36-1212F.....	3/4 x 3/4
CB36-1612F.....	1 x 3/4
CB36-1616F.....	1 x 1
* CB36-2424.....	1-1/2 x 1-1/2

Elbow 45 deg M/M NPTF x NPTF



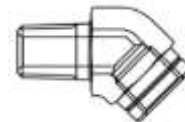
P/Number.....	Thread
CN36-0202.....	1/8 x 1/8
* CN36-0404F.....	1/4 x 1/4
* CN36-0606.....	3/8 x 3/8
* CN36-0808.....	1/2 x 1/2
* CN36-1212.....	3/4 x 3/4
* CN36-1616.....	1 x 1

45 deg Elbow M/F BSPT x BSPT



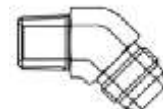
P/Number.....	Thread
CB37-0202F.....	1/8 x 1/8
CB37-0404F.....	1/4 x 1/4
CB37-0606F.....	3/8 x 3/8
CB37-0808F.....	1/2 x 1/2
CB37-1212F.....	3/4 x 3/4
CB37-1616F.....	1 x 1

45 deg Elbow M/F NPTF x NPTF



P/Number.....	Thread
CN37-0202F.....	1/8 x 1/8
CN37-0404F.....	1/4 x 1/4
CN37-0606F.....	3/8 x 3/8
CN37-0808F.....	1/2 x 1/2
CN37-1212F.....	3/4 x 3/4
CN37-1616F.....	1 x 1
CN37-2020.....	1-1/4 x 1-1/4

Elbow 45 deg M/M BSPT x JIC



P/Number.....	Thread
CB38-0207F.....	1/8 x 7/16
CB38-0407F.....	1/4 x 7/16
CB38-0408F.....	1/4 x 1/2
CB38-0409F.....	1/4 x 9/16
CB38-0412F.....	1/4 x 3/4
CB38-0609F.....	3/8 x 9/16
CB38-0612F.....	3/8 x 3/4
CB38-0614.....	3/8 x 7/8
CB38-0809F.....	1/2 x 9/16
CB38-0812F.....	1/2 x 3/4
CB38-0814F.....	1/2 x 7/8
CB38-0817F.....	1/2 x 1-1/16
CB38-1214F.....	3/4 x 7/8
CB38-1217F.....	3/4 x 1-1/16
CB38-1221F.....	3/4 x 1-5/16
CB38-1621F.....	1 x 1-5/16
CB38-1626F.....	1 x 1-1/2
CB38-2026F.....	1-1/4 x 1-1/2
CB38-2430.....	1-1/2 x 1-7/8
CB38-3240.....	2 x 2-1/2

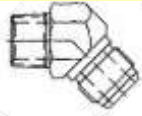
For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.

Section 4

Adaptors

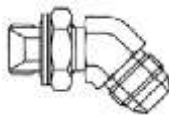


Elbow 45 deg M/M BSPT x JIS



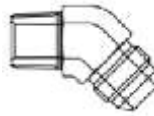
P/Number	Thread
* CBJ38-0404	1/4 x 1/4
CBJ38-0606	3/8 x 3/8
CBJ38-0808	1/2 x 1/2
CBJ38-1212	3/4 x 3/4
CBJ38-1616	1 x 1

45 deg Elbow. M/M BSPP x JIC



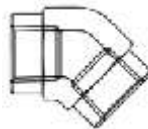
P/Number	Thread
CP38-0407F	1/4 x 7/16
CP38-0409F	1/4 x 9/16
CP38-0412F	1/4 x 3/4
CP38-0609F	3/8 x 9/16
CP38-0612F	3/8 x 3/4
CP38-0809F	1/2 x 9/16
CP38-0812F	1/2 x 3/4
CP38-0814F	1/2 x 7/8
CP38-0817F	1/2 x 1-1/16
CP38-1212F	3/4 x 3/4
CP38-1217F	3/4 x 1-1/16
CP38-1621	1 x 1-5/16
CP38-2026F	1-1/4 x 1-5/8
* CP38-2430	1-1/2 x 1-7/8

45 deg Elbow. M/M NPTF x JIC



P/Number	Thread
CN38-0207F	1/8 x 7/16
CN38-0407F	1/4 x 7/16
CN38-0409F	1/4 x 9/16
CN38-0412F	1/4 x 3/4
CN38-0609F	3/8 x 9/16
CN38-0612F	3/8 x 3/4
CN38-0614	3/8 x 7/8
CN38-0809F	1/2 x 9/16
CN38-0812F	1/2 x 3/4
CN38-0814F	1/2 x 7/8
CN38-1212	35.60
CN38-1214F	3/4 x 7/8
CN38-1217F	3/4 x 1-1/16
CN38-1221	52.00
CN38-1617F	1 x 1-1/16
CN38-1621F	1 x 1-5/16
CN38-1626	1 x 1-5/8
CN38-2021	1-1/4 x 1-5/16
CN38-2026F	1-1/4 x 1-5/8
CN38-2030	1-1/4 x 1-7/8
CN38-2430	1-1/2 x 1-7/8
CN38-3230	2 x 1-7/8
CN38-3240	2 x 2-1/2

45 deg Elbow. F/F BSPT x BSPT



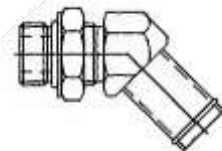
P/Number	Thread
CB39-0404F	1/4 x 1/4
CB39-0606F	3/8 x 3/8
CB39-0808F	1/2 x 1/2
CB39-1212F	3/4 x 3/4
CB39-1616F	1 x 1

45 deg Elbow. M/M S.A.E. 'O' Ring Boss x JIC



P/Number	Thread
C40-0707F	7/16 x 7/16
C40-0907F	9/16 x 7/16
C40-0909F	9/16 x 9/16
C40-0912F	9/16 x 3/4
C40-1209F	3/4 x 9/16
C40-1212F	3/4 x 3/4
C40-1214F	3/4 x 7/8
C40-1412F	7/8 x 3/4
C40-1414F	7/8 x 7/8
C40-1417F	7/8 x 1-1/16
C40-1712	1-1/16 x 3/4
C40-1714F	1-1/16 x 7/8
C40-1717F	1-1/16 x 1-1/16
C40-1721F	1-1/16 x 1-5/16
C40-2117F	1-5/16 x 1-1/16
C40-2121F	1-5/16 x 1-5/16
C40-2126F	1-5/16 x 1-5/8
C40-2621F	1-5/8 x 1-5/16
C40-2626F	1-5/8 x 1-5/8
C40-3030	1-7/8 x 1-7/8
* C40-4040	2-1/2 x 2-1/2

Clamp-on 45 deg Elbow. M/M S.A.E. 'O' Ring Boss x Tail



P/Number	Thread	Hose
C41-1212	3/4	3/4
* C41-1408	7/8	1/2
C41-1716	1-1/16	1
* C41-2116	1-5/16	1
* C41-2120	1-5/16	1-1/4
* C41-2124	1-5/16	1-1/2
* C41-2620	1-5/8	1-1/4
* C41-2624	1-5/8	1-1/2



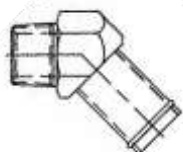
M.B. BUTTERFIELD
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*Manufactured To Order (minimum qtys may apply)

Section 4

Adaptors

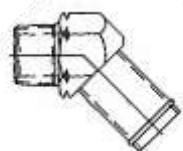
Clamp-on 45 deg Elbow. M/M BSPT x Tail



P/Number Thread Hose

CB41-0808.....	1/2	1/2
* CB41-0812.....	1/2	3/4
CB41-1212.....	3/4	3/4
CB41-1216.....	3/4	1
CB41-1616.....	1	1
CB41-1620.....	1	1-1/4
CB41-2020.....	1-1/4	1-1/4
CB41-2024.....	1-1/4	1-1/2

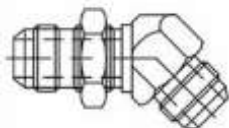
Clamp-on 45 deg Elbow. M/M NPTF x Tail



P/Number Thread Hose

* CN41-0608	3/8	1/2
* CN41-0812	1/2	3/4
CN41-1212	3/4	3/4
CN41-1216	3/4	1
CN41-1220	3/4	1-1/4
CN41-1616	1	1
CN41-1620	1	1-1/4
* CN41-2020	1-1/4	1-1/4

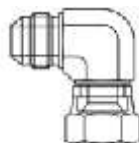
Bulkhead Elbow 45 deg. M/M JIC x JIC



P/Number Thread

C42-0707	7/16 x 7/16
C42-0909	9/16 x 9/16
C42-1212	3/4 x 3/4
C42-1414	7/8 x 7/8
C42-1717	1-1/16 x 1-1/16
C42-2121	1-5/16 x 1-5/16
* C42-2626	1-5/8 x 1-5/8

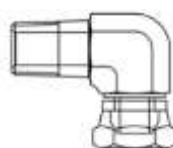
90 deg Union M/F JIC x JIC



P/Number Thread

C46-0707F	7/16 x 7/16
C46-0808F	1/2 x 1/2
C46-0909F	9/16 x 9/16
C46-1212F	3/4 x 3/4
C46-1214F	3/4 x 7/8
C46-1412F	7/8 x 3/4
C46-1414F	7/8 x 7/8
C46-1417F	7/8 x 1-1/16
C46-1714F	1-1/16 x 7/8
C46-1717F	1-1/16 x 1-1/16
C46-2121F	1-5/16 x 1-5/16
C46-2626F	1-5/8 x 1-5/8
C46-3030F	1-7/8 x 1-7/8
C46-4040.....	2-1/2 x 2-1/2

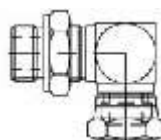
90 deg Union M/F BSPT x BSPP



P/Number Thread

CB46-0202F.....	1/8 x 1/8
CB46-0404F.....	1/4 x 1/4
CB46-0406F.....	1/4 x 3/8
CB46-0604F.....	3/8 x 1/4
CB46-0606F.....	3/8 x 3/8
CB46-0608F.....	3/8 x 1/2
CB46-0806F.....	1/2 x 3/8
CB46-0808F.....	1/2 x 1/2
CB46-1208F.....	3/4 x 1/2
CB46-1212F.....	3/4 x 3/4
CB46-1616F.....	1 x 1
CB46-2020.....	1-1/4 x 1-1/4
CB46-2424.....	1-1/2 x 1-1/2
CB46-3232.....	2 x 2

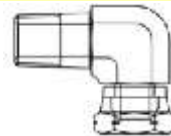
90 deg Union M/F BSPP x BSPP



P/Number Thread

CP46-0404F	1/4 x 1/4
CP46-0606F	3/8 x 3/8
CP46-0808F	1/2 x 1/2
CP46-1212F	3/4 x 3/4
CP46-1216F	3/4 x 1
CP46-1616F	1 x 1

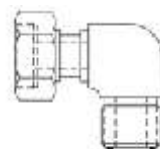
90 deg Union M/F NPTF x NPSM



P/Number Thread

CN46-0202	1/8 x 1/8
CN46-0404F.....	1/4 x 1/4
CN46-0606F.....	3/8 x 3/8
CN46-0808F.....	1/2 x 1/2
CN46-1212F.....	3/4 x 3/4
CN46-1616F.....	1 x 1

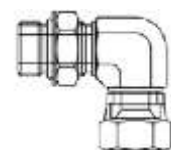
90 deg Union M/F ORFS x ORFS



P/Number Thread

F46-0909F	9/16 x 9/16
F46-1111F	11/16 x 11/16
F46-1313F	13/16 x 13/16
F46-1616F	1 x 1
F46-1919F.....	1-3/16 x 1-3/16
F46-2323F	1-7/16 x 1-7/16

90 deg Union M/F S.A.E. 'O' Ring Boss x JIC



P/Number Thread

C47-0707F.....	7/16 x 7/16
C47-0909F.....	9/16 x 9/16
C47-1209F.....	3/4 x 9/16
C47-1212F.....	3/4 x 3/4
C47-1412F.....	7/8 x 3/4
C47-1414F.....	7/8 x 7/8
C47-1717F.....	1-1/16 x 1-1/16
C47-2121F.....	1-5/16 x 1-5/16

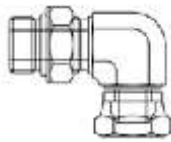
For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.

Section 4

Adaptors

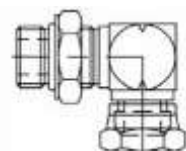


90 deg Union M/F S.A.E. 'O' Ring Boss x BSPP



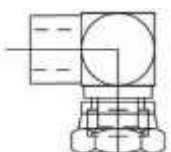
P/Number.....	Thread
CB47-0904F.....	9/16 x 1/4
CB47-0906F.....	9/16 x 3/8
CB47-1206F.....	3/4 x 3/8
CB47-1208F.....	3/4 x 1/2
CB47-1408F.....	7/8 x 1/2
CB47-1712F.....	1-1/16 x 3/4
CB47-2116F.....	1-5/16 x 1

90 deg Union M/F S.A.E. 'O' Ring Boss x NPSM



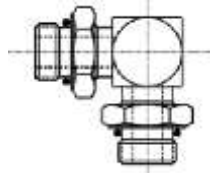
P/Number.....	Thread
* CN47-0904.....	9/16 x 1/4
* CN47-1206.....	3/4 x 3/8
* CN47-1208.....	3/4 x 1/2
* CN47-1408.....	7/8 x 1/2
* CN47-1712.....	1-1/16 x 3/4
* CN47-2116.....	1-5/16 x 1
* CN47-2620.....	1-5/8 x 1-1/4

90 deg Elbow F/F BSPT x JIC



P/Number.....	Thread
CB48-0209F.....	1/8 x 9/16
CB48-1217F.....	3/4 x 1-1/16

90 deg Elbow M/M SAE O-Ring Boss x SAE O-Ring Boss



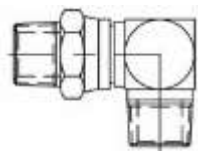
P/Number.....	Thread
ZC52-0909F.....	9/16 x 9/16
ZC52-1212.....	3/4 x 3/4
ZC52-1412.....	7/8 x 3/4
ZC52-1717.....	1-1/16 x 1-1/16

90 deg Elbow M/M BSPT x BSPT



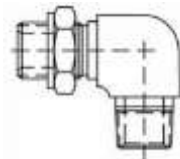
P/Number.....	Thread
CB53-0202F.....	1/8 x 1/8
CB53-0402F.....	1/4 x 1/8
CB53-0404F.....	1/4 x 1/4
CB53-0604F.....	3/8 x 1/4
CB53-0606F.....	3/8 x 3/8
CB53-0804F.....	1/2 x 1/4
CB53-0806F.....	1/2 x 3/8
CB53-0808F.....	1/2 x 1/2
CB53-1208F.....	3/4 x 1/2
CB53-1212F.....	3/4 x 3/4
CB53-1612F.....	1 x 3/4
CB53-1616F.....	1 x 1
CB53-2012F.....	1-1/4 x 3/4
CB53-2016F.....	1-1/4 x 1
CB53-2020F.....	1-1/4 x 1-1/4
CB53-2424F.....	1-1/2 x 1-1/2
CB53-3232.....	2 x 2

90 deg Elbow M/M BSPT Swivel x BSPT



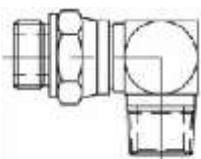
P/Number.....	Thread
CBS53-0606.....	3/8 x 3/8
CBS53-0808.....	1/2 x 1/2
CBS53-1208.....	3/4 x 1/2
* CBS53-1212.....	3/4 x 3/4

90 deg Elbow M/M BSPP x BSPT



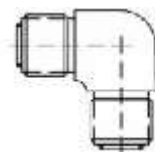
P/Number.....	Thread
CPB53-0404F.....	1/4 x 1/4
CPB53-0406F.....	1/4 x 3/8
CPB53-0604F.....	3/8 x 1/4
CPB53-0606F.....	3/8 x 3/8
CPB53-0608F.....	3/8 x 1/2
CPB53-0806F.....	1/2 x 3/8
CPB53-0808F.....	1/2 x 1/2
CPB53-0812F.....	1 2/ x 3/4
CPB53-1212F.....	3/4 x 3/4
CPB53-1612F.....	1 x 3/4
CPB53-1616F.....	1 x 1
CPB53-2020F.....	1-1/4 x 1-1/4
CPB53-2424F.....	1-1/2 x 1-1/2

90 deg Elbow M/M BSPP Swivel x BSPT



P/Number.....	Thread
CPBS53-0606.....	3/8 x 3/8
CPBS53-0808.....	1/2 x 1/2
CPBS53-1208.....	3/4 x 1/2

90 deg Elbow M/M ORFS x ORFS



P/Number.....	Thread
F53-0909.....	9/16 x 9/16
F53-1111.....	11/16 x 11/16
F53-1313.....	13/16 x 13/16
F53-1616.....	1 x 1
F53-1919.....	1-3/16 x 1-3/16
F53-2323.....	1-7/16 x 1-7/16



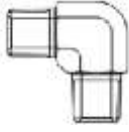
M.B. BUTTERFIELD
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*Manufactured To Order (minimum qtys may apply)

Section 4

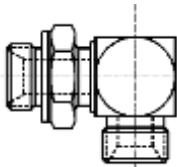
Adaptors

90 deg Elbow M/M NPTF x NPTF



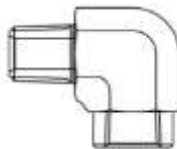
P/Number	Thread
CN53-0202F	1/8 x 1/8
CN53-0404F	1/4 x 1/4
CN53-0604	3/8 x 1/4
CN53-0606F	3/8 x 3/8
* CN53-0804	1/2 x 1/4
CN53-0806F	1/2 x 3/8
CN53-0808F	1/2 x 1/2
CN53-1208F	3/4 x 1/2
CN53-1212F	3/4 x 3/4
CN53-1612F	1 x 3/4
CN53-1616F	1 x 1
CN53-2020F	1-1/4 x 1-1/4
CN53-2424F	1-1/2 x 1-1/2
CN53-3232	2 x 2

90 deg Elbow M/M BSPP x BSPP



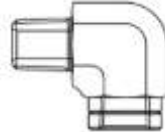
P/Number	Thread
* CP53-0404	1/4 x 1/4
CP53-0606	3/8 x 3/8
* CP53-0808	1/2 x 1/2

90 deg Elbow M/F BSPT x BSPT



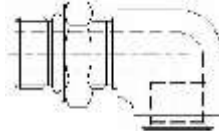
P/Number	Thread
CB54-0202F	1/8 x 1/8
CB54-0204F	1/8 x 1/4
CB54-0404F	1/4 x 1/4
CB54-0606F	3/8 x 3/8
CB54-0608F	3/8 x 1/2
CB54-0806F	1/2 x 3/8
CB54-0808F	1/2 x 1/2
CB54-0812F	1/2 x 3/4
CB54-1208F	3/4 x 1/2
CB54-1212F	3/4 x 3/4
CB54-1616F	1 x 1
CB54-2020F	1-1/4 x 1-1/4
CB54-2424	1-1/2 x 1-1/2
CB54-3232	2 x 2

90 deg Elbow M/F NPTF x NPTF



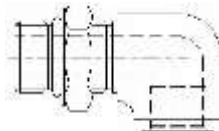
P/Number	Thread
CN54-0202F	1/8 x 1/8
CN54-0204F	1/8 x 1/4
CN54-0404F	1/4 x 1/4
CN54-0406F	1/4 x 3/8
CN54-0606F	3/8 x 3/8
CN54-0806F	1/2 x 3/8
CN54-0808F	1/2 x 1/2
CN54-1212F	3/4 x 3/4
* CN54-1216F	3/4 x 1
CN54-1616F	1 x 1
CN54-2020F	1-1/4 x 1-1/4
CN54-2424	1-1/2 x 1-1/2
CN54-3232	2 x 2

90 deg Elbow M/F BSPP x SAE 'O' Ring



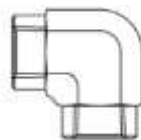
P/Number	Thread
CPU54-0609F	3/8 x 9/16

90 deg Elbow M/F SAE 'O' Ring Boss x SAE 'O' Ring



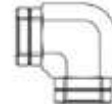
P/Number	Thread
CU54-0909F	9/16 x 9/16
CU54-1209F	3/4 x 9/16

90 deg Elbow F/F BSPT x BSPT



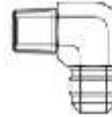
P/Number	Thread
CB55-0202F	1/8 x 1/8
CB55-0404F	1/4 x 1/4
CB55-0606F	3/8 x 3/8
CB55-0806F	1/2 x 3/8
CB55-0808F	1/2 x 1/2
CB55-1208F	3/4 x 1/2
CB55-1212F	3/4 x 3/4
CB55-1616F	1 x 1
CB55-2020F	1-1/4 x 1-1/4
CB55-2424	1-1/2 x 1-1/2

90 deg Elbow F/F NPTF x NPTF



P/Number	Thread
CN55-0202F	1/8 x 1/8
CN55-0404F	1/4 x 1/4
CN55-0606F	3/8 x 3/8
CN55-0806	1/2 x 3/8
CN55-0808F	1/2 x 1/2
CN55-1208	3/4 x 1/2
CN55-1212F	3/4 x 3/4
CN55-1616F	1 x 1
CN55-2020F	1-1/4 x 1-1/4
* CN55-2424	1-1/2 x 1-1/2

90 deg Elbow M/M BSPT x JIC



P/Number	Thread
* CB56-0206F	1/8 x 3/8
CB56-0207F	1/8 x 7/16
CB56-0208F	1/8 x 1/2
CB56-0209F	1/8 x 9/16
CB56-0407F	1/4 x 7/16
CB56-0408F	1/4 x 1/2
CB56-0409F	1/4 x 9/16
CB56-0412F	1/4 x 3/4
CB56-0607F	3/8 x 7/16
CB56-0609F	3/8 x 9/16
CB56-0612F	3/8 x 3/4
CB56-0614F	3/8 x 7/8
CB56-0807F	1/2 x 7/16
CB56-0809F	1/2 x 9/16
CB56-0812F	1/2 x 3/4
CB56-0814F	1/2 x 7/8
CB56-0817F	1/2 x 1-1/16
CB56-1209F	3/4 x 9/16
CB56-1212F	3/4 x 3/4
CB56-1214F	3/4 x 7/8
CB56-1217F	3/4 x 1-1/16
CB56-1221F	3/4 x 1-5/16
CB56-1612F	1 x 3/4
CB56-1614F	1 x 7/8
CB56-1617F	1 x 1-1/16
CB56-1621F	1 x 1-5/16
CB56-1626F	1 x 1-5/8
CB56-2017F	1-1/4 x 1-1/16
CB56-2021F	1-1/4 x 1-5/16
CB56-2026F	1-1/4 x 1-5/8
CB56-2030	1-1/4 x 1-7/8
CB56-2426F	1-1/2 x 1-5/8
CB56-2430F	1-1/2 x 1-7/8
* CB56-2440	1-1/2 x 2-1/2
* CB56-3230	2 x 1-7/8
CB56-3240	2 x 2-1/2

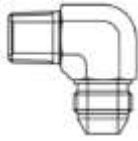
For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.

Section 4

Adaptors

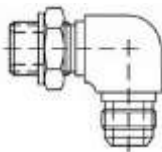


90 deg Elbow M/M BSPT x JIS



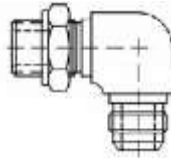
P/Number	Thread
CBJ56-0404F	1/4 x 1/4
CBJ56-0606	3/8 x 3/8
CBJ56-0808	1/2 x 1/2
CBJ56-1212	3/4 x 3/4
CBJ56-1616	1 x 1

90 deg Elbow M/M BSPP x JIC



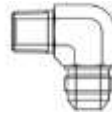
P/Number	Thread
CP56-0207F	1/8 x 7/16
CP56-0209F	1/8 x 9/16
CP56-0407F	1/4 x 7/16
CP56-0409F	1/4 x 9/16
CP56-0412F	1/4 x 3/4
CP56-0607F	3/8 x 7/16
CP56-0609F	3/8 x 9/16
CP56-0612F	3/8 x 3/4
CP56-0614F	3/8 x 7/8
CP56-0809F	1/2 x 9/16
CP56-0812F	1/2 x 3/4
CP56-0814F	1/2 x 7/8
CP56-0817F	1/2 x 1-1/16
CP56-0821F	1/2 x 1-5/16
CP56-1212F	3/4 x 3/4
CP56-1214F	3/4 x 7/8
CP56-1217F	3/4 x 1-1/16
CP56-1221F	3/4 x 1-5/16
CP56-1617F	1 x 1-1/16
CP56-1621F	1 x 1-5/16
CP56-1626F	1 x 1-5/8
CP56-2017F	1-1/4 x 1-1/16
CP56-2021F	1-1/4 x 1-5/16
CP56-2026F	1-1/4 x 1-5/8
CP56-2030F	1-1/4 x 1-7/8
CP56-2421F	1-1/2 x 1-5/16
CP56-2426F	1-1/2 x 1-5/8
CP56-2430F	1-1/2 x 1-7/8
CP56-3240	2 x 2-1/2

90 deg Elbow M/M Metric x JIC



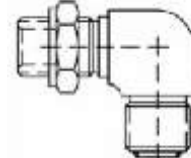
P/Number	Thread
CM56-1207F	M12x1.5 x 7/16
CM56-1409F	M14x1.5 x 9/16
CM56-1609F	M16x1.5 x 9/16
CM56-1809F	M18x1.5 x 9/16
CM56-1812F	M18x1.5 x 3/4
CM56-2212	M22x1.5 x 3/4

90 deg Elbow M/M NPTF x JIC



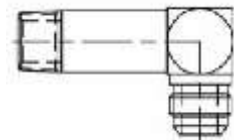
P/Number	Thread
CN56-0207F	1/8 x 7/16
CN56-0208F	1/8 x 1/2
CN56-0209F	1/8 x 9/16
CN56-0407F	1/4 x 7/16
CN56-0408	1/4 x 1/2
CN56-0409F	1/4 x 9/16
CN56-0412F	1/4 x 3/4
CN56-0607F	3/8 x 7/16
CN56-0609F	3/8 x 9/16
CN56-0612F	3/8 x 3/4
CN56-0614F	3/8 x 7/8
* CN56-0617	3/8 x 1-1/16
CN56-0807F	1/2 x 7/16
CN56-0809F	1/2 x 9/16
CN56-0812F	1/2 x 3/4
CN56-0814F	1/2 x 7/8
CN56-0817F	1/2 x 1-1/16
CN56-1207F	3/4 x 7/16
CN56-1209F	3/4 x 9/16
CN56-1212F	3/4 x 3/4
CN56-1214F	3/4 x 7/8
CN56-1217F	3/4 x 1-1/16
CN56-1221F	3/4 x 1-5/16
CN56-1617F	1 x 1-1/16
CN56-1621F	1 x 1-5/16
CN56-1626F	1 x 1-5/8
CN56-2017F	1-1/4 x 1-1/16
CN56-2021F	1-1/4 x 1-5/16
CN56-2026F	1-1/4 x 1-5/8
CN56-2030F	1-1/4 x 1-7/8
CN56-2426F	1-1/2 x 1-5/8
CN56-2430	1-1/2 x 1-7/8
CN56-3240	2 x 2-1/2

90 deg Elbow M/M BSPP x ORFS



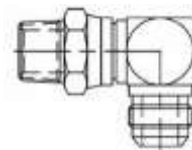
P/Number	Thread
FP56-0811F	1/2 x 11/16
FP56-0813F	1/2 x 13/16
FP56-0816F	1/2 x 1
FP56-0819F	1/2 x 1-3/16
FP56-1213F	3/4 x 13/16
FP56-1216F	3/4 x 1

90 deg Elbow M/M BSPT Extended x JIC



P/Number	Thread
CB57-0207	1/8 x 7/16
CB57-0407	1/4 x 7/16
CB57-0409	1/4 x 9/16
CB57-0609	3/8 x 9/16
CB57-0612	3/8 x 3/4
CB57-0812	1/2 x 3/4
CB57-0814	1/2 x 7/8
* CB57-1217	3/4 x 1-1/16
CB57-1621	1 x 1-5/16

90 deg Elbow M/M BSPT Swivel x JIC



P/Number	Thread
CBS57-0407	1/4 x 7/16
CBS57-0612	3/8 x 3/4
CBS57-0812	1/2 x 3/4
CBS57-0814	1/2 x 7/8
* CBS57-0817	1/2 x 1-1/16
CBS57-1217	3/4 x 1-1/16
CBS57-1221	3/4 x 1-5/16
* CBS57-1621	1 x 1-5/16



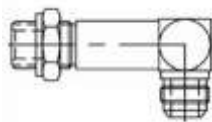
M.B. BUTTERFIELD
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*Manufactured To Order (minimum qtys may apply)

Section 4

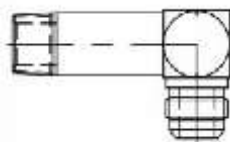
Adaptors

90 deg Elbow M/M BSPP Extended x JIC



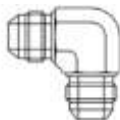
P/Number.....	Thread
CP57-0612.....	3/8 x 3/4
CP57-0814.....	1/2 x 7/8
* CP57-1217.....	3/4 x 1-1/16
* CP57-1221.....	3/4 x 1-5/16
* CP57-1621.....	1 x 1-5/16

90 deg Elbow M/M NPTF Extended x JIC



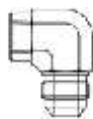
P/Number.....	Thread
CN57-0207.....	1/8 x 7/16
* CN57-0209.....	1/8 x 9/16
CN57-0407.....	1/4 x 7/16
* CN57-0409.....	1/4 x 9/16
CN57-0609.....	3/8 x 9/16
* CN57-0612.....	3/8 x 3/4
* CN57-0812.....	1/2 x 3/4
CN57-0814.....	1/2 x 7/8
* CN57-1212.....	3/4 x 3/4
* CN57-1217.....	3/4 x 1-1/16
* CN57-1621.....	1 x 1-5/16

90 deg Elbow M/M JIC x JIC



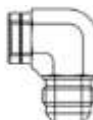
P/Number.....	Thread
C58-0606.....	3/8 x 3/8
C58-0707F.....	7/16 x 7/16
C58-0808F.....	1/2 x 1/2
C58-0908.....	9/16 x 1/2
C58-0909F.....	9/16 x 9/16
C58-1209F.....	3/4 x 9/16
C58-1212F.....	3/4 x 3/4
C58-1412F.....	7/8 x 3/4
C58-1414F.....	7/8 x 7/8
C58-1712F.....	1-1/16 x 3/4
C58-1714F.....	1-1/16 x 7/8
C58-1717F.....	1-1/16 x 1-1/16
C58-2117F.....	1-5/16 x 1-1/16
C58-2121F.....	1-5/16 x 1-5/16
C58-2626F.....	1-5/8 x 1-5/8
C58-3030F.....	1-7/8 x 1-7/8

90 deg Elbow F/M BSPT x JIC



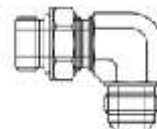
P/Number.....	Thread
CB58-0407F.....	1/4 x 7/16
CB58-0409F.....	1/4 x 9/16
CB58-0609F.....	3/8 x 9/16
CB58-0612F.....	3/8 x 3/4
CB58-0614F.....	3/8 x 7/8
CB58-0812F.....	1/2 x 3/4
CB58-0814F.....	1/2 x 7/8
CB58-1217F.....	3/4 x 1-1/16
CB58-1621F.....	1 x 1-5/16

90 deg Elbow F/M NPTF x JIC



P/Number.....	Thread
* CN58-0207F.....	1/8 x 7/16
CN58-0407F.....	1/4 x 7/16
CN58-0409F.....	1/4 x 9/16
* CN58-0612.....	3/8 x 3/4
CN58-0812F.....	1/2 x 3/4
* CN58-1217.....	3/4 x 1-1/16
* CN58-1621.....	1 x 1-5/16

90 deg Elbow M/M S.A.E. 'O' Ring Boss x JIC



P/Number	Thread
C59-0707F.....	7/16 x 7/16
C59-0708F.....	7/16 x 1/2
C59-0709F.....	7/16 x 9/16
C59-0712.....	7/16 x 3/4
C59-0807F.....	1/2 x 7/16
C59-0808F.....	1/2 x 1/2
C59-0809F.....	1/2 x 9/16
C59-0907F.....	9/16 x 7/16
C59-0908F.....	9/16 x 1/2
C59-0909F.....	9/16 x 9/16
C59-0912F.....	9/16 x 3/4
C59-1207F.....	3/4 x 7/16
C59-1208F.....	3/4 x 1/2
C59-1209F.....	3/4 x 9/16
C59-1212F.....	3/4 x 3/4
C59-1214F.....	3/4 x 7/8
C59-1217F.....	3/4 x 1-1/16
C59-1221.....	3/4 x 1-5/16
C59-1409F.....	7/8 x 9/16
C59-1412F.....	7/8 x 3/4
C59-1414F.....	7/8 x 7/8
C59-1417F.....	7/8 x 1-1/16
C59-1421F.....	7/8 x 1-5/16
C59-1709F.....	1-1/16 x 9/16
C59-1712F.....	1-1/16 x 3/4
C59-1714F.....	1-1/16 x 7/8
C59-1717F.....	1-1/16 x 1-1/16
C59-1721F.....	1-1/16 x 1-5/16
C59-2117F.....	1-5/16 x 1-1/16
C59-2121F.....	1-5/16 x 1-5/16
C59-2126F.....	1-5/16 x 1-5/8
C59-2621F.....	1-5/8 x 1-5/16
C59-2626F.....	1-5/8 x 1-5/8
C59-2630.....	1-5/8 x 1-7/8
C59-3021F.....	1-7/8 x 1-5/16
C59-3026.....	1-7/8 x 1-5/8
C59-3030.....	1-7/8 x 1-7/8
C59-4040.....	2-1/2 x 2-1/2

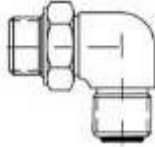
For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.

Section 4

Adaptors

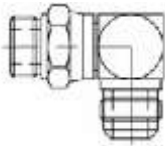


90 deg Elbow M/M S.A.E. 'O' Ring Boss x ORFS



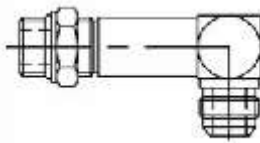
P/Number.....	Thread
F59-0709F.....	7/16 x 9/16
F59-0909F.....	9/16 x 9/16
F59-0911F.....	9/16 x 11/16
F59-1211F.....	3/4 x 11/16
F59-1213F.....	3/4 x 13/16
F59-1416F.....	7/8 x 1
F59-1719F.....	1-1/16 x 1-3/16
F59-2123F.....	1-5/16 x 1-7/16

90 deg Elbow M/M S.A.E. 'O' Ring Boss Swivel x JIC



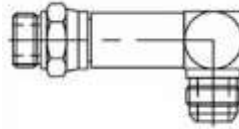
P/Number.....	Thread
CS59-1212.....	3/4 x 3/4
CS59-1214.....	3/4 x 7/8
CS59-1412.....	7/8 x 3/4
CS59-1414.....	7/8 x 7/8
* CS59-1417.....	7/8 x 1-1/16
CS59-1717.....	1-1/16 x 1-1/16

90 deg Elbow M/M S.A.E. 'O' Ring Boss Ext. x JIC



P/Number.....	Thread
CE59-0909.....	9/16 x 9/16
CE59-0912.....	9/16 x 3/4
CE59-1209.....	3/4 x 9/16
CE59-1212.....	3/4 x 3/4
CE59-1214.....	3/4 x 7/8
CE59-1409.....	7/8 x 9/16
CE59-1412.....	7/8 x 3/4
CE59-1414.....	7/8 x 7/8
CE59-1417.....	7/8 x 1-1/16
CE59-1717.....	1-1/16 x 1-1/16

90 deg Elbow M/M S.A.E. 'O' Ring Boss Ext. Swivel x JIC



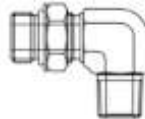
P/Number.....	Thread
CES59-1212.....	3/4 x 3/4
* CES59-1214.....	3/4 x 7/8
CES59-1412.....	7/8 x 3/4
* CES59-1414.....	7/8 x 7/8

90 deg Elbow M/M SAE O-Ring Boss x JIC Orifice Elbow 0.9mm



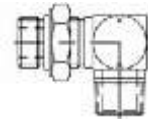
P/Number.....	Thread
ZC59-0909.....	9/16 x 9/16

90 deg Elbow M/M S.A.E. 'O' Ring Boss x BSPT



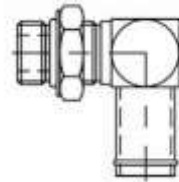
P/Number.....	Thread
CB59-0704F.....	7/16 x 1/4
CB59-0904F.....	9/16 x 1/4
CB59-0906F.....	9/16 x 3/8
CB59-1204F.....	3/4 x 1/4
CB59-1206F.....	3/4 x 3/8
CB59-1208F.....	3/4 x 1/2
CB59-1212F.....	3/4 x 3/4
CB59-1404F.....	7/8 x 1/4
CB59-1406F.....	7/8 x 3/8
CB59-1408F.....	7/8 x 1/2
CB59-1412F.....	7/8 x 3/4
CB59-1708F.....	1-1/16 x 1/2
CB59-1712F.....	1-1/16 x 3/4
CB59-1716.....	1-1/16 x 1
CB59-2112F.....	1-5/16 x 3/4
CB59-2116F.....	1-5/16 x 1

90 deg Elbow M/M S.A.E. 'O' Ring Boss x NPTF



P/Number.....	Thread
CN59-0904.....	9/16 x 1/4
CN59-0906.....	9/16 x 3/8
CN59-1206.....	3/4 x 3/8
* CN59-1208.....	3/4 x 1/2
* CN59-1212.....	3/4 x 3/4
* CN59-1408.....	7/8 x 1/2
CN59-1412.....	7/8 x 3/4

Clamp-on 90 deg Elbow M/M S.A.E. 'O' Ring Boss x Tail



P/Number.....	Thread	Hose
* C60-0905.....	9/16	5/16
* C60-0906.....	9/16	3/8
* C60-0908.....	9/16	1/2
C60-1208.....	3/4	1/2
* C60-1210.....	3/4	5/8
C60-1212.....	3/4	3/4
C60-1412.....	7/8	3/4
* C60-1416.....	7/8	1
C60-1420.....	7/8	1-1/4
* C60-1710.....	1-1/16	5/8
C60-1712.....	1-1/16	3/4
C60-1716.....	1-1/16	1
C60-1720.....	1-1/16	1-1/4
* C60-1724.....	1-1/16	1-1/2
C60-2112.....	1-5/16	3/4
C60-2116.....	1-5/16	1
C60-2120.....	1-5/16	1-1/4
C60-2124.....	1-5/16	1-1/2
C60-2620.....	1-5/8	1-1/4
C60-2624.....	1-5/8	1-1/2
C60-3024.....	1-7/8	1-1/2



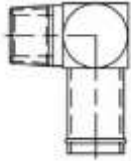
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*Manufactured To Order (minimum qtys may apply)

Section 4

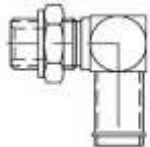
Adaptors

Clamp-on 90 deg Elbow M/M BSPT x Tail



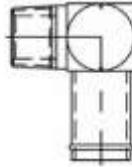
P/Number	Thread	Hose
CB60-0204	1/8	1/4
* CB60-0404	1/4	1/4
* CB60-0405	1/4	5/16
CB60-0406	1/4	3/8
* CB60-0606	3/8	3/8
* CB60-0608	3/8	1/2
CB60-0610	3/8	5/8
CB60-0612	3/8	3/4
CB60-0806	1/2	3/8
CB60-0808	1/2	1/2
* CB60-0810	1/2	5/8
CB60-0812	1/2	3/4
* CB60-1208	3/4	1/2
CB60-1212	3/4	3/4
CB60-1216	3/4	1
CB60-1220	3/4	1-1/4
CB60-1612	1	3/4
CB60-1616	1	1
CB60-1620	1	1-1/4
CB60-1624	1	1-1/2
* CB60-2012	1-1/4	3/4
CB60-2016	1-1/4	1
CB60-2020	1-1/4	1-1/4
CB60-2024	1-1/4	1-1/2
CB60-2032	1-1/4	2
CB60-2420	1-1/2	1-1/4
CB60-2424	1-1/2	1-1/2
CB60-2432	1-1/2	2
CB60-3232	2	2

Clamp-on 90 deg Elbow M/M BSPP x Tail



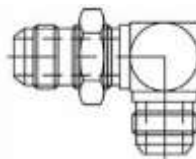
P/Number	Thread	Hose
CP60-0608	3/8	1/2
CP60-0612	3/8	1/2
CP60-0812	1/2	3/4
CP60-0816	1/2	1
CP60-1212	3/4	3/4
CP60-1216	3/4	1
CP60-1220	3/4	1-1/4
CP60-1612	1	3/4
CP60-1616	1	1
CP60-1620	1	1-1/4
CP60-1624	1	1-1/2
CP60-1632	1	2
CP60-2016	1-1/4	1
CP60-2020	1-1/4	1-1/4
CP60-2024	1-1/4	1-1/2
CP60-2032	1-1/4	2
CP60-2424	1-1/2	1-1/2
CP60-2432	1-1/2	2

Clamp-on 90 deg Elbow M/M NPTF x Tail



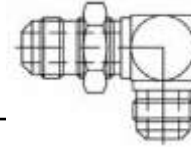
P/Number	Thread	Hose
CN60-0404	1/4	1/4
CN60-0406	1/4	3/8
* CN60-0408	1/4	1/2
CN60-0410	1/4	5/8
CN60-0606	3/8	3/8
CN60-0608	3/8	1/2
* CN60-0610	3/8	5/8
CN60-0612	3/8	3/4
* CN60-0808	1/2	1/2
CN60-0812	1/2	3/4
* CN60-1212	3/4	3/4
CN60-1216	3/4	113/4
CN60-1616	1	1
* CN60-1620	1	1-1/4
* CN60-1624	1	1-1/2
CN60-2020	1-1/4	1-1/4
CN60-2024	1-1/4	1-1/2
CN60-2424	1-1/2	1-1/2
* CN60-2432	1-1/2	2

90 deg Elbow M/M JIC x JIC Bulkhead



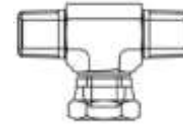
P/Number	Thread
C61-0707	7/16 x 7/16
* C61-0808	1/2 x 1/2
C61-0909	9/16 x 9/16
C61-1212	3/4 x 3/4
C61-1414	7/8 x 7/8
C61-1717	1-1/16 x 1-1/16
C61-2121	1-5/16 x 1-5/16
C61-2626	1-5/8 x 1-5/8
C61-3030	1-7/8 x 1-7/8

90 deg Elbow M/M SAE x SAE Bulkhead



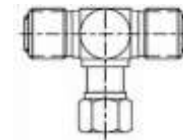
P/Number	Thread
CA61-1010	5/8 x 5/8
CA61-1212	3/4 x 3/4
CA61-1414	7/8 x 7/8

Tee M/M/F BSPT x BSPT x BSPP



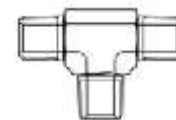
P/Number	Thread
CB61-040404F	1/4 x 1/4 x 1/4
CB61-060606F	3/8 x 3/8 x 3/8
CB61-080808F	1/2 x 1/2 x 1/2
CB61-121212F	3/4 x 3/4 x 3/4
CB61-161616F	1 x 1 x 1

Tee M/M/F ORFS x ORFS x ORFS



P/Number	Thread
* F61-090909F	9/16 x 9/16 x 9/16
* F61-111111F	11/16 x 11/16 x 11/16
* F61-131313F	13/16 x 13/16 x 13/16
* F61-161616F	1 x 1 x 1
* F61-191919F	1-3/16 x 1-3/16 x 1-3/16

Tee M/M/M BSPT x BSPT x BSPT



P/Number	Thread
CB62-020202F	1/8 x 1/8 x 1/8
CB62-040404F	1/4 x 1/4 x 1/4
CB62-060606F	3/8 x 3/8 x 3/8
CB62-080808F	1/2 x 1/2 x 1/2
CB62-121208F	3/4 X 3/4 X 1/2
CB62-121212F	3/4 x 3/4 x 3/4
CB62-161616F	1 x 1 x 1
CB62-202020	1-1/4 x 1-1/4 x 1-1/4
CB62-242424	1-1/2 x 1-1/2 x 1-1/2
CB62-323232	2 x 2 x 2

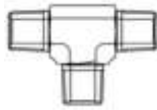
For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.

Section 4

Adaptors

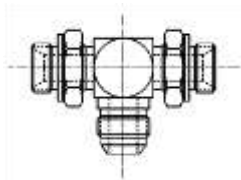


Tee M/M/M NPTF x NPTF x NPTF



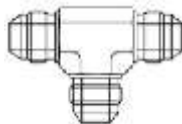
P/Number	Thread
CN62-020202	1/8 x 1/8 x 1/8
CN62-040404F	1/4 x 1/4 x 1/4
CN62-060606F	3/8 x 3/8 x 3/8
CN62-080808F	1/2 x 1/2 x 1/2
CN62-121212F	3/4 x 3/4 x 3/4
* CN62-161616	1 x 1 x 1

Tee M/M/M BSPP x BSPP x JIC



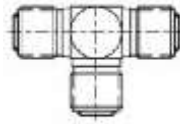
P/Number	Thread
* ZCP62-080814	1/2 x 1/2 x 7/8

Tee M/M/M JIC x JIC x JIC



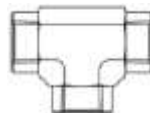
P/Number	Thread
C63-070707F	7/16 x 7/16 x 7/16
C63-080808F	1/2 x 1/2 x 1/2
C63-090909F	9/16 x 9/16 x 9/16
C63-121209F	3/4 X 3/4 X 9/16
C63-120912F	3/4 x 9/16 x 3/4
C63-121212F	3/4 x 3/4 x 3/4
C63-121214F	3/4 x 3/4 x 7/8
C63-121217F	3/4 x 3/4 x 1-1/16
C63-141214F	7/8 x 3/4 x 7/8
* C63-141412F	7/8 x 3/4 x 7/8
C63-141414F	7/8 x 7/8 x 7/8
C63-141417F	7/8 x 7/8 x 1-1/16
C63-171414F	1-1/16 x 7/8 x 7/8
C63-171417	1-1/16 x 7/8 x 1-1/16
C63-171712F	1-1/16 x 1-1/16 x 3/4
C63-171714F	1-1/16 x 1-1/16 x 7/8
C63-171717F	1-1/16 x 1-1/16 x 1-1/16
C63-212114F	1-5/16 x 1-5/16 x 7/8
C63-212117F	1-5/16 x 1-5/16 x 1-1/16
C63-212121F	1-5/16 x 1-5/16 x 1-5/16
C63-262626F	1-5/8 x 1-5/8 x 1-5/8
C63-303030	1-7/8 x 1-7/8 x 1-7/8
C63-404040	2-1/2 x 2-1/2 x 2-1/2

Tee M/M/M ORFS x ORFS x ORFS



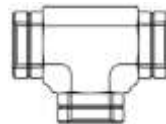
P/Number	Thread
F63-090909F	9/16 x 9/16 x 9/16
F63-111111F	11/16 x 11/16 x 11/16
F63-131313F	13/16 x 13/16 x 13/16
F63-161616F	1 x 1 x 1
F63-191919F	1-3/16 x 1-3/16 x 1-3/16
F63-232323	1-7/16 x 1-7/16 x 1-7/16

Tee F/F/F BSPT x BSPT x BSPT



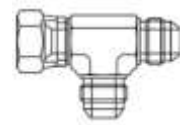
P/Number	Thread
CB63-020202F	1/8 x 1/8 x 1/8
CB63-040404F	1/4 x 1/4 x 1/4
CB63-060606F	3/8 x 3/8 x 3/8
CB63-080808F	1/2 x 1/2 x 1/2
CB63-121212F	3/4 x 3/4 x 3/4
CB63-161616	1 x 1 x 1
CB63-202020	1-1/4 x 1-1/4 x 1-1/4
CB63-242424	1-1/2 x 1-1/2 x 1-1/2
CB63-323232	2 x 2 x 2

Tee F/F/F NPTF x NPTF x NPTF



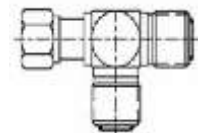
P/Number	Thread
CN63-020202F	1/8 x 1/8 x 1/8
CN63-040404F	1/4 x 1/4 x 1/4
CN63-060606F	3/8 x 3/8 x 3/8
CN63-080808F	1/2 x 1/2 x 1/2
CN63-121212F	3/4 x 3/4 x 3/4
CN63-161616	1 x 1 x 1
CN63-202020	1-1/4 x 1-1/4 x 1-1/4
CN63-242424	1-1/2 x 1-1/2 x 1-1/2
CN63-323232	2 x 2 x 2

Tee F/M/M JIC x JIC x JIC



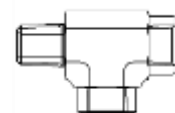
P/Number	Thread
C64-070707F	7/16 x 7/16 x 7/16
C64-080808F	1/2 x 1/2 x 1/2
C64-090909F	9/16 x 9/16 x 9/16
C64-121212F	3/4 x 3/4 x 3/4
C64-141414F	7/8 x 7/8 x 7/8
C64-171717F	1-1/16 x 1-1/16 x 1-1/16
C64-172117F	1-1/16 x 1-5/16 x 1-1/16
C64-212117F	1-5/16 x 1-5/16 x 1-1/16
C64-212121F	1-5/16 x 1-5/16 x 1-5/16
C64-262626	1-5/8 x 1-5/8 x 1-5/8
C64-303030	1-7/8 x 1-7/8 x 1-7/8
C64-404040	2-1/2 x 2-1/2 x 2-1/2

Tee F/M/M ORFS x ORFS x ORFS



P/Number	Thread
F64-090909F	9/16 x 9/16 x 9/16
F64-111111F	11/16 x 11/16 x 11/16
F64-131313F	13/16 x 13/16 x 13/16
F64-161616F	1 x 1 x 1
F64-191919F	1-3/16 x 1-3/16 x 1-3/16
F64-232323	1-7/16 x 1-7/16 x 1-7/16

Tee M/F/F BSPT x BSPT x BSPT



P/Number	Thread
CB64-020202F	1/8 x 1/8 x 1/8
CB64-040404F	1/4 x 1/4 x 1/4
CB64-060606F	3/8 x 3/8 x 3/8
CB64-080808F	1/2 x 1/2 x 1/2
CB64-121212F	3/4 x 3/4 x 3/4
CB64-161616	1 x 1 x 1
CB64-202020	1-1/4 x 1-1/4 x 1-1/4
CB64-242424	1-1/2 x 1-1/2 x 1-1/2



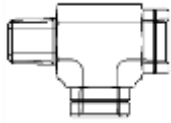
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*Manufactured To Order (minimum qties may apply)

Section 4

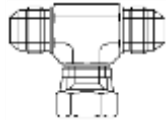
Adaptors

Tee M/F/F NPTF x NPTF x NPTF



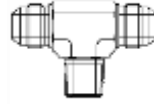
P/Number	Thread
CN64-020202F	1/8 x 1/8 x 1/8
CN64-040404F	1/4 x 1/4 x 1/4
CN64-060606F	3/8 x 3/8 x 3/8
CN64-080808F	1/2 x 1/2 x 1/2
CN64-121212F	3/4 x 3/4 x 3/4
CN64-161616	1 x 1 x 1
CN64-202020	1-1/4 x 1-1/4 x 1-1/4

Tee M/M/F JIC x JIC x JIC



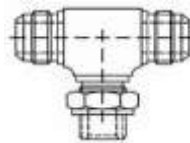
P/Number	Thread
C65-070707F	7/16 x 7/16 x 7/16
* C65-080808	1/2 x 1/2 x 1/2
C65-090909F	9/16 x 9/16 x 9/16
C65-121212F	3/4 x 3/4 x 3/4
C65-141414F	7/8 x 7/8 x 7/8
C65-171717F	1-1/16 x 1-1/16 x 1-1/16
C65-212121F	1-5/16 x 1-5/16 x 1-5/16
C65-262626	1-5/8 x 1-5/8 x 1-5/8
C65-303030	1-7/8 x 1-7/8 x 1-7/8
C65-404040	2-1/2 x 2-1/2 x 2-1/2

Tee M/M/M JIC x JIC x BSPT



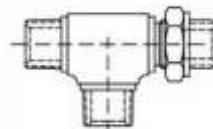
P/Number	Thread
CB65-070702F	7/16 x 7/16 x 1/8
CB65-070704F	7/16 x 7/16 x 1/4
CB65-090904F	9/16 x 9/16 x 1/4
CB65-090906F	9/16 x 9/16 x 3/8
CB65-121204F	3/4 x 3/4 x 1/4
CB65-121206F	3/4 x 3/4 x 3/8
CB65-121208F	3/4 x 3/4 x 1/2
CB65-121212F	3/4 x 3/4 x 3/4
CB65-141406F	7/8 x 7/8 x 3/8
CB65-141408F	7/8 x 7/8 x 1/2
CB65-141412F	7/8 x 7/8 x 3/4
CB65-171712F	1-1/16 x 1-1/16 x 3/4
CB65-212116F	1-5/16 x 1-5/16 x 1
CB65-262620	1-5/8 x 1-5/8 x 1-1/4
CB65-303024	1-7/8 x 1-7/8 x 1-1/2

Tee M/M/M JIC x JIC x BSPP



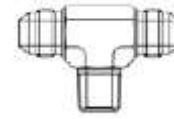
P/Number	Thread
CP65-070704F	9/16 x 9/16 x 1/4
CP65-090904F	9/16 x 9/16 x 1/4
CP65-090906F	9/16 x 9/16 x 3/8
CP65-090908F	9/16 x 9/16 x 1/2
CP65-121206F	3/4 x 3/4 x 3/8
CP65-121208F	3/4 x 3/4 x 1/2
CP65-141408F	7/8 x 7/8 x 1/2
CP65-141412F	7/8 x 7/8 x 3/4
CP65-171712F	1-1/16 x 1-1/16 x 3/4
CP65-212116F	1-5/16 x 1-5/16 x 1

Tee M/M/M BSPT x BSPP x BSPT



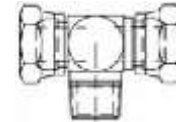
P/Number	Thread
* CBP65-040404F	1/4 x 1/4 x 1/4
* CBP65-121212F	3/4 x 3/4 x 3/4

Tee M/M/M JIC x JIC x NPTF



P/Number	Thread
CN65-070702F	7/16 x 7/16 x 1/8
CN65-070704F	7/16 x 7/16 x 1/4
CN65-080804	1/2 x 1/2 x 1/4
CN65-090904F	9/16 x 9/16 x 1/4
CN65-090906F	9/16 x 9/16 x 3/8
CN65-121206F	3/4 x 3/4 x 3/8
CN65-121208F	3/4 x 3/4 x 1/2
CN65-141408F	7/8 x 7/8 x 1/2
CN65-141412F	7/8 x 7/8 x 3/4
CN65-171708F	1-1/16 x 1-1/16 x 1/2
* CN65-171712	1-1/16 x 1-1/16 x 3/4
CN65-212116	1-5/16 x 1-5/16 x 1

Tee F/F/M BSPP x BSPP x BSPT



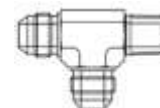
P/Number	Thread
CBS66-040404	1/4 x 1/4 x 1/4
CBS66-060606	3/8 x 3/8 x 3/8
CBS66-080808	1/2 x 1/2 x 1/2

Tee F/F/M NPTF x NPTF x NPTF



P/Number	Thread
CN66-020202F	1/8 x 1/8 x 1/8
CN66-040404F	1/4 x 1/4 x 1/4
CN66-060606F	3/8 x 3/8 x 3/8
CN66-080808F	1/2 x 1/2 x 1/2
CN66-121212F	3/4 x 3/4 x 3/4
* CN66-161616	1 x 1 x 1
* CN66-202020	1-1/4 x 1-1/4 x 1-1/4

Tee M/M/M JIC x BSPT x JIC



P/Number	Thread
CB67-070207F	7/16 x 1/8 x 7/16
CB67-070407F	7/16 x 1/4 x 7/16
CB67-090409F	9/16 x 1/4 x 9/16
CB67-090609F	9/16 x 3/8 x 9/16
CB67-120612F	3/4 x 3/8 x 3/4
CB67-120812F	3/4 x 1/2 x 3/4
CB67-140814F	7/8 x 1/2 x 7/8
CB67-171217F	1-1/16 x 3/4 x 1-1/16
CB67-211621F	1-5/16 x 1 x 1-5/16

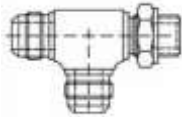
For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.

Section 4

Adaptors

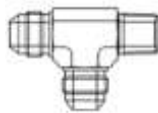


Tee M/M/M JIC x BSPP x JIC



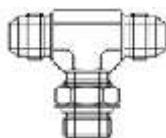
P/Number	Thread
CP67-070407F	7/16 x 1/4 x 7/16
CP67-090409F	9/16 x 1/4 x 9/16
CP67-090609F	9/16 x 3/8 x 9/16
CP67-120612F	3/4 x 3/8 x 3/4
CP67-120812F	3/4 x 1/2 x 3/4
CP67-140814F	7/8 x 1/2 x 7/8
* CP67-170817	1-1/16 x 1/2 x 1-1/16
CP67-171217F	1-1/16 x 3/4 x 1-1/16
CP67-211621F	1-5/16 x 1 x 1-5/16
* CP67-262026	1-5/8 x 1-1/4 x 1-5/8
* CP67-262426	1-5/8 x 1-1/2 x 1-5/8
* CP67-302430	1-7/8 x 1-1/2 x 1-7/8

Tee M/M/M JIC x NPT x JIC



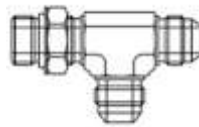
P/Number	Thread
CN67-070207F	7/16 x 1/8 x 7/16
* CN67-070407	7/16 x 1/4 x 7/16
CN67-080208	1/2 x 1/8 x 1/2
CN67-080408	1/2 x 1/4 x 1/2
CN67-090409F	9/16 x 1/4 x 9/16
* CN67-090609F	9/16 x 3/8 x 9/16
CN67-120612F	3/4 x 3/8 x 3/4
CN67-120812F	3/4 x 1/2 x 3/4
CN67-140814F	7/8 x 1/2 x 7/8
CN67-171217F	1-1/16 x 3/4 x 1-1/16
CN67-211621F	1-5/16 x 1 x 1-5/16

Tee M/M/M JIC x JIC x S.A.E. 'O' Ring Boss



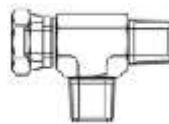
P/Number	Thread
C68-070707F	7/16 x 7/16 x 7/16
C68-090907F	9/16 x 9/16 x 7/16
C68-090909F	9/16 x 9/16 x 9/16
C68-090912F	9/16 x 9/16 x 3/4
C68-121209F	3/4 x 3/4 x 9/16
C68-121212F	3/4 x 3/4 x 3/4
C68-141214	7/8 x 3/4 x 7/8
C68-141412F	7/8 x 7/8 x 3/4
C68-141414F	7/8 x 7/8 x 7/8
C68-171717F	1-1/16 x 1-1/16 x 1-1/16
* C68-212117	1-5/16 x 1-5/16 x 1-1/16
C68-212121	1-5/16 x 1-5/16 x 1-5/16
* C68-262626	1-5/8 x 1-5/8 x 1-5/8

Tee M/M/M S.A.E. 'O' Ring Boss x JIC x JIC



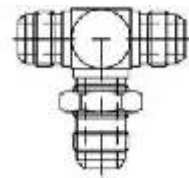
P/Number	Thread
C69-070707F	7/16 x 7/16 x 7/16
C69-080808F	1/2 x 1/2 x 1/2
C69-090909F	9/16 x 9/16 x 9/16
C69-120909F	3/4 x 9/16 x 9/16
C69-121212F	3/4 x 3/4 x 3/4
C69-141212F	7/8 x 3/4 x 3/4
C69-141414F	7/8 x 7/8 x 7/8
C69-141717F	7/8 x 1-1/16 x 1-1/16
C69-171414F	1-1/16 x 7/8 x 7/8
C69-171712	1-1/16 x 1-1/16 x 1-1/16
C69-171717F	1-1/16 x 1-1/16 x 1-1/16
* C69-211717	1-5/16 x 1-1/16 x 1-1/16
C69-212121F	1-5/16 x 1-5/16 x 1-5/16

Tee F/M/M BSPP x BSPT x BSPT



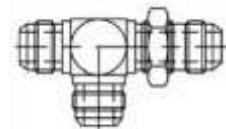
P/Number	Thread
CB69-040404F	1/4 x 1/4 x 1/4
CB69-060606F	3/8 x 3/8 x 3/8
CB69-080808F	1/2 x 1/2 x 1/2
CB69-121204F	3/4 x 3/4 x 1/4
CB69-121212F	3/4 x 3/4 x 3/4
CB69-161616F	1 x 1 x 1
CB69-202020	1-1/4 x 1-1/4 x 1-1/4

Tee M/M/M JIC x JIC x JIC Bulkhead



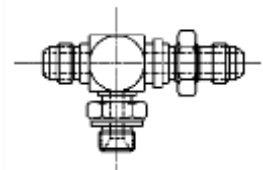
P/Number	Thread
C70-070707	7/16 x 7/16 x 7/16
C70-090909	9/16 x 9/16 x 9/16
C70-121212	3/4 x 3/4 x 3/4
C70-141414	7/8 x 7/8 x 7/8
C70-171717	1-1/16 x 1-1/16 x 1-1/16
C70-212121	1-5/16 x 1-5/16 x 1-5/16
* C70-262626	1-5/8 x 1-5/8 x 1-5/8

Tee M/M/M JIC x JIC Bulkhead x JIC



P/Number	Thread
C71-070707	7/16 x 7/16 x 7/16
C71-090909	9/16 x 9/16 x 9/16
C71-121212	3/4 x 3/4 x 3/4
C71-141414	7/8 x 7/8 x 7/8
C71-171717	1-1/16 x 1-1/16 x 1-1/16
C71-212121	1-5/16 x 1-5/16 x 1-5/16
* C71-262626	1-5/8 x 1-5/8 x 1-5/8

Tee M/M/M JIC x JIC Bulkhead x BSPP



P/Number	Thread
ZCP71-090904	9/16 x 9/16 x 1/4



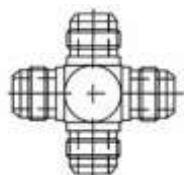
M.B. BUTTERFIELD
HYDRAULIC ENGINEERS

*Manufactured To Order (minimum qtls may apply)

Section 4

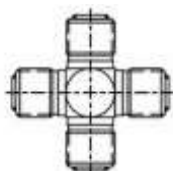
Adaptors

Cross M/M/M/M 4 x JIC



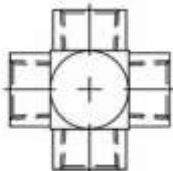
P/Number	Thread
C72-07X4	7/16
C72-09X4	9/16
C72-12X4	3/4
C72-14X4	7/8
C72-17X4	1-1/16
* C72-21X4	1-5/16

Cross M/M/M/M 4 x ORFX



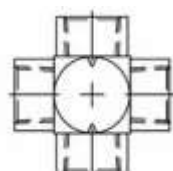
P/Number	Thread
F72-11X4	11/16

Cross F/F/F/F 4 x BSPT



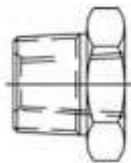
P/Number	Thread
CB72-04X4	1/4
CB72-06X4	3/8
CB72-08X4	1/2
CB72-12X4	3/4
CB72-16X4	1

Cross F/F/F/F 4 x NPTF



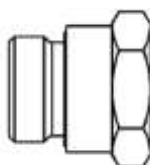
P/Number	Thread
* CN72-02X4	1/8
CN72-04X4	1/4
CN72-06X4	3/8
CN72-08X4	1/2
* CN72-12X4	3/4
* CN72-16X4	1

Reducing Bush M/F BSPT x BSPT



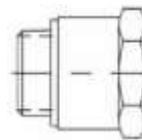
P/Number	Thread
CB73-0402	1/4 x 1/8
CB73-0602	3/8 x 1/8
CB73-0604	3/8 x 1/4
CB73-0802	1/2 x 1/8
CB73-0804	1/2 x 1/4
CB73-0806	1/2 x 3/8
CB73-1204	3/4 x 1/4
CB73-1206	3/4 x 3/8
CB73-1208	3/4 x 1/2
CB73-1606	1 x 3/8
CB73-1608	1 x 1/2
CB73-1612	1 x 3/4
CB73-2008	1-1/4 x 1/2
CB73-2012	1-1/4 x 3/4
CB73-2016	1-1/4 x 1
CB73-2412	1-1/2 x 3/4
CB73-2416	1-1/2 x 1
CB73-2420	1-1/2 x 1-1/4
CB73-3216	2 x 1
CB73-3220	2 x 1-1/4
CB73-3224	2 x 1-1/2

Reducing Bush M/F BSPP x BSPP Encapsulated Seal



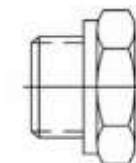
P/Number	Thread
CR73-0604	3/8 x 1/4
CR73-1608	1 x 1/2
CR73-1612	1 x 3/4
CR73-2016	1-1/4 x 1
CR73-2416	1-1/2 x 1
CR73-2420	1-1/2 x 1-1/4

Reducing Bush M/F BSPP x BSPP Style A



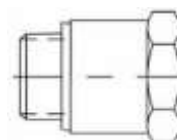
P/Number	Thread
CP73-0602	3/8 x 1/8
CP73-0604	3/8 x 1/4
CP73-0804	1/2 x 1/4
CP73-0806	1/2 x 3/8
CP73-1206	3/4 x 3/8
CP73-1208	3/4 x 1/2
CP73-1612	1 x 3/4
CP73-2016	1-1/4 x 1
CP73-2416	1-1/2 x 1
CP73-2420	1-1/2 x 1-1/4
CP73-3224	2 x 1-1/2

Reducing Bush M/F BSPP x BSPP Style B



P/Number	Thread
CP73-1204	3/4 x 1/4
CP73-1608	1 x 1/2
CP73-2012	1-1/4 x 3/4
* CP73-3212	2 x 3/4
* CP73-3216	2 x 1
CP73-3220	2 x 1-1/4

Reducing Bush M/F BSPP x BSPT Style A



P/Number	Thread
CPB73-2420	1-1/2 x 1-1/4

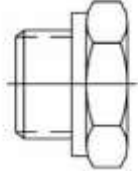
For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.

Section 4

Adaptors

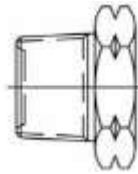


Reducing Bush M/F BSPP x BSPT Style B



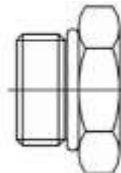
P/Number	Thread
* CPB73-0804.....	1/2 x 1/4
* CPB73-1206.....	3/4 x 3/8
* CPB73-2012.....	1-1/4 x 3/4
* CPB73-2412.....	1-1/2 x 3/4
* CPB73-2416.....	1-1/2 x 1
* CPB73-2420.....	1-1/2 x 1-1/4

Reducing Bush M/F NPTF x NPTF



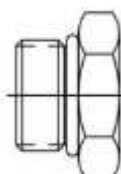
P/Number	Thread
CN73-0402.....	1/4 x 1/8
CN73-0602.....	3/8 x 1/8
CN73-0604.....	3/8 x 1/4
CN73-0802.....	1/2 x 1/8
CN73-0804.....	1/2 x 1/4
CN73-0806.....	1/2 x 3/8
CN73-1202.....	3/4 x 1/8
CN73-1204.....	3/4 x 1/4
CN73-1206.....	3/4 x 3/8
CN73-1208.....	3/4 x 1/2
* CN73-1606.....	1 x 3/8
CN73-1608.....	1 x 1/2
CN73-1612.....	1 x 3/4
* CN73-2008.....	1-1/4 x 1/2
CN73-2012.....	1-1/4 x 3/4
CN73-2016.....	1-1/4 x 1
CN73-2412.....	1-1/2 x 3/4
CN73-2416.....	1-1/2 x 1
CN73-2420.....	1-1/2 x 1-1/4
* CN73-3212.....	2 x 3/4
CN73-3216.....	2 x 1
CN73-3220.....	2 x 1-1/4
CN73-3224.....	2 x 1-1/2
2-1/2 x 1-1/4	

Reducing Bush M/F S.A.E. 'O' Ring Boss x S.A.E. 'O' Ring Boss



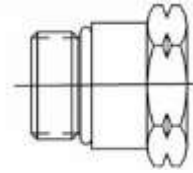
P/Number	Thread
C74-0908.....	9/16 x 1/2
C74-1209.....	3/4 x 9/16
C74-1409.....	7/8 x 9/16
C74-1709.....	1-1/16 x 9/16
C74-1712.....	1-1/16 x 3/4
C74-2112.....	1-5/16 x 3/4
C74-2114.....	1-5/16 x 7/8
C74-2117.....	1-5/16 x 1-1/16
* C74-2612.....	1-5/8 x 3/4
C74-2617.....	1-5/8 x 1-1/16
C74-2621.....	1-5/8 x 1-5/16
C74-3017.....	1-7/8 x 1-1/16
* C74-3021.....	1-7/8 x 1-5/16

Reducing Bush M/F S.A.E. 'O' Ring Boss x BSPT



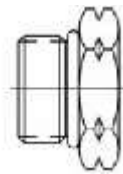
P/Number	Thread
* CB74-0902	3/4 x 1/8
CB74-1202	3/4 x 1/8
CB74-1204	3/4 x 1/4
CB74-1402	7/8 x 1/8
CB74-1404	7/8 x 1/4
* CB74-1406	7/8 x 3/8
CB74-1704	1-1/16 x 1/4
CB74-1706	1-1/16 x 3/8
* CB74-1708	1-1/16 x 1/2
CB74-2104	1-5/16 x 1/4
CB74-2106	1-5/16 x 3/8
CB74-2108	1-5/16 x 1/2
CB74-2112	1-5/16 x 3/4
* CB74-2612	1-5/8 x 3/4
* CB74-2616	1-5/8 x 1

Reducing Bush M/F S.A.E. 'O' Ring Boss x NPTF Style A



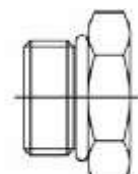
P/Number	Thread
* CN74-1708	1-1/16 x 1/2
* CN74-2108	1-5/16 x 1/2
* CN74-2112	1-5/16 x 3/4

Reducing Bush M/F S.A.E. 'O' Ring Boss x NPTF Style B



P/Number	Thread
* CN74-1202	3/4 x 1/8
CN74-1204	3/4 x 1/4
CN74-1402	7/8 x 1/8
* CN74-1404	7/8 x 1/4
* CN74-1704	1-1/16 x 1/4
CN74-1706	1-1/16 x 3/8
CN74-2108	1-5/16 x 1/2

Plug S.A.E. 'O' Ring Boss



P/Number	Thread
C77-06	3/8
C77-07	7/16
C77-08	1/2
C77-09	9/16
C77-12	3/4
C77-14	7/8
C77-17	1-1/16
C77-19	1-3/16
C77-21	1-5/16
C77-26	1-5/8
C77-30	1-7/8
C77-40	2-1/2



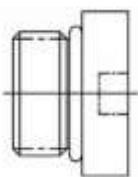
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*Manufactured To Order (minimum qtys may apply)

Section 4

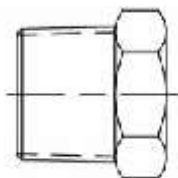
Adaptors

Plug S.A.E. 'O' Ring Boss Socket Head



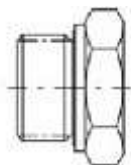
P/Number	Thread
C77S-05	5/16
C77S-06	3/8
C77S-07	7/16
C77S-08	1/2
C77S-09	9/16
C77S-12	3/4
C77S-14	7/8
C77S-17	1-1/16

Plug BSPT



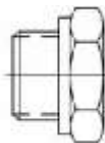
P/Number	Thread
CB77-02	1/8
CB77-04	1/4
CB77-06	3/8
CB77-08	1/2
CB77-12	3/4
CB77-16	1
CB77-20	1-1/4
CB77-24	1-1/2
CB77-32	2
* CB77-40	2-1/2

Plug BSPP Encapsulated Seal



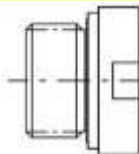
P/Number	Thread
CR77-02	1/8
CR77-04	1/4
CR77-06	3/8
CR77-08	1/2
CR77-12	3/4
CR77-16	1
CR77-20	1-1/4
CR77-24	1-1/2

Plug BSPP



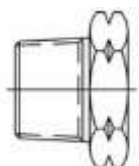
P/Number	Thread
CP77-02	1/8
CP77-04	1/4
CP77-06	3/8
CP77-08	1/2
CP77-12	3/4
CP77-16	1
CP77-20	1-1/4
CP77-24	1-1/2
CP77-32	2

Plug BSPP Socket Head



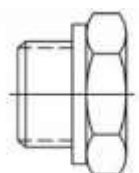
P/Number	Thread
CR77S-02	1/8
CR77S-04	1/4
CR77S-06	3/8
CR77S-08	1/2
CR77S-12	3/4
CR77S-16	1

Plug NPTF



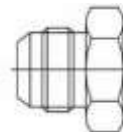
P/Number	Thread
CN77-02	1/8
CN77-04	1/4
CN77-06	3/8
CN77-08	1/2
CN77-12	3/4
CN77-16	1
CN77-20	1-1/4
CN77-24	1-1/2
CN77-32	2
2-1/2	

Plug Metric 1.5mm Pitch



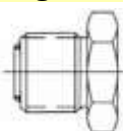
P/Number	Thread
CM77-12	12
CM77-14	14
CM77-16	16
CM77-18	18
CM77-20	20
CM77-22	22
CM77-24	24

Plug JIC



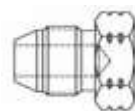
P/Number	Thread
C78-07	7/16
C78-08	1/2
C78-09	9/16
C78-12	3/4
C78-14	7/8
C78-17	1-1/16
C78-19	1-3/16
C78-21	1-5/16
C78-26	1-5/8
C78-30	1-7/8
C78-40	2-1/2

Plug ORFS



P/Number	Thread
F78-09	9/16
F78-11	11/16
F78-13	13/16
F78-16	1
F78-19	1-3/16
F78-23	1-7/16
F78-27	1-11/16

Plug Metric Komatsu 1.5mm Pitch



P/Number	Thread
CK78-12	12
CK78-14	14
CK78-16	16
CK78-18	18
CK78-20	20
CK78-22	22
CK78-24	12
CK78-30	14
CK78-33	16
CK78-36	18
CK78-42	24

Cap Nut JIC



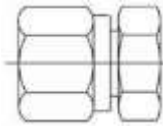
P/Number	Thread
C79-07	7/16
C79-08	1/2
C79-09	9/16
C79-12	3/4
C79-14	7/8
C79-17	1-1/16
C79-19	1-3/16
C79-21	1-5/16
C79-26	1-5/8
C79-30	1-7/8
C79-40	2-1/2

For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.

Section 4 Adaptors

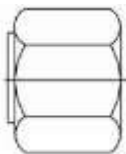


Cap Nut BSPP



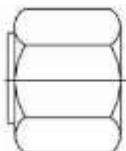
P/Number.....	Thread
CBS79-02.....	1/8
CBS79-04.....	1/4
CBS79-06.....	3/8
CBS79-08.....	1/2
* CBS79-10.....	5/8
CBS79-12.....	3/4
CBS79-16.....	1
CBS79-20.....	1-1/4
CBS79-24.....	1-1/2
CBS79-32.....	2

Cap Nut ORFS



P/Number.....	Thread
F79-09.....	9/16
F79-11.....	11/16
F79-13.....	13/16
F79-16.....	1
F79-19.....	1-3/16
F79-23.....	1-7/16
F79-27.....	1-11/16

Cap Nut Metric Komatsu 1.5mm Pitch



P/Number.....	Thread
CK79-12.....	9/16
CK79-14.....	11/16
CK79-16.....	13/16
CK79-18.....	1
CK79-20.....	1-3/16
CK79-22.....	1-7/16
CK79-24.....	1
CK79-30.....	1-3/16
CK79-33.....	1-7/16
CK79-36.....	1-11/16
CK79-42.....	1-11/16

Bulkhead Nut JIC



P/Number.....	Thread
C80-07.....	7/16
C80-08.....	1/2
C80-09.....	9/16
C80-12.....	3/4
C80-14.....	7/8
C80-17.....	1-1/16
C80-19.....	1-3/16
C80-21.....	1-5/16
C80-26.....	1-5/8
C80-30.....	1-7/8
C80-40.....	2-1/2

Bulkhead Nut BSPP



P/Number.....	Thread
CP80-02.....	1/8
CP80-04.....	1/4
CP80-06.....	3/8
CP80-08.....	1/2
CP80-12.....	3/4
CP80-16.....	1
CP80-20.....	1-1/4
CP80-24.....	1-1/2
CP80-32.....	2

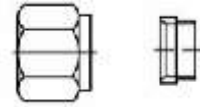
Bulkhead Nut ORFS



P/Number.....	Thread
F80-11.....	11/16
F80-13.....	13/16
F80-16.....	1
F80-19.....	1-3/16
F80-23.....	1-7/16
F80-27.....	1-11/16

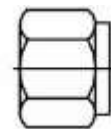
Tube Nut & Sleeve Assembly JIC

(Nut C83-**N. Sleeve C83-**S)



P/Number	(Tube)	Thread
C83-07.....	(1/4).....	7/16
C83-08.....	(5/16).....	1/2
C83-09.....	(3/8).....	9/16
C83-12.....	(1/2).....	3/4
C83-14.....	(5/8).....	7/8
C83-17.....	(3/4).....	1-1/16
C83-19.....	(7/8).....	1-3/16
C83-21.....	(1).....	1-5/16
C83-26.....	(1-1/4).....	1-5/8
C83-30.....	(1-1/2).....	1-7/8

Tube Nut JIC



P/Number	(Tube)	Thread
C83-07N.....	(1/4).....	7/16
C83-08N.....	(5/16).....	1/2
C83-09N.....	(3/8).....	9/16
C83-12N.....	(1/2).....	3/4
C83-14N.....	(5/8).....	7/8
C83-17N.....	(3/4).....	1-1/16
C83-19N.....	(7/8).....	1-3/16
C83-21N.....	(1).....	1-5/16
C83-26N.....	(1-1/4).....	1-5/8
C83-30N.....	(1-1/2).....	1-7/8
C83-40N.....	(2).....	2-1/2

Tube Sleeve JIC



P/Number	(Tube)	Thread
C83-07S.....	(1/4).....	7/16
C83-08S.....	(5/16).....	1/2
C83-09S.....	(3/8).....	9/16
C83-12S.....	(1/2).....	3/4
C83-14S.....	(5/8).....	7/8
C83-17S.....	(3/4).....	1-1/16
C83-19S.....	(7/8).....	1-3/16
C83-21S.....	(1).....	1-5/16
C83-26S.....	(1-1/4).....	1-5/8
C83-30S.....	(1-1/2).....	1-7/8
C83-40S.....	(2).....	2-1/2



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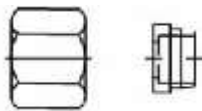
*Manufactured To Order (minimum qtys may apply)

Section 4

Adaptors

Tube Nut & Sleeve Assembly ORFS

(Nut =F83-**N, Sleeve =F83-**S)



P/Number.....	(Tube)	Thread
F83-09.....	(1/4).....	9/16
F83-11.....	(3/8).....	11/16
F83-13.....	(1/2).....	13/16
F83-16.....	(5/8).....	1
F83-19.....	(3/4).....	1-3/16
F83-23.....	(1).....	1-7/16
F83-27.....	(1 1/4)	1-11/16

Tube Nut ORFS



P/Number.....	(Tube)	Thread
F83-09N.....	(1/4).....	9/16
F83-11N.....	(3/8).....	11/16
F83-13N.....	(1/2).....	13/16
F83-16N.....	(5/8).....	1
F83-19N.....	(3/4).....	1-3/16
F83-23N.....	(1).....	1-7/16
F83-27N.....	(1 1/4)	1-11/16

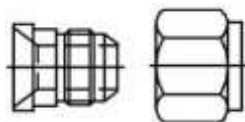
Tube Sleeve ORFS



P/Number.....	(Tube)	Thread
F83-09S.....	(1/4).....	9/16
F83-11S.....	(3/8).....	11/16
F83-13S.....	(1/2).....	13/16
F83-16S.....	(5/8).....	1
F83-19S.....	(3/4).....	1-3/16
F83-23S.....	(1).....	1-7/16

Tube Reducer Assembly F/M JIC x JIC Style A

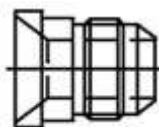
(Nut =C83-**N, Reducer =C84-****R)



P/Number	Thread
C84-0907.....	9/16 x 7/16
C84-1209.....	3/4 x 9/16
C84-1409.....	7/8 x 9/16
C84-1707.....	1-1/16 x 7/16
C84-1709.....	1-1/16 x 9/16
C84-1712.....	1-1/16 x 3/4
C84-2112.....	1-5/16 x 3/4
C84-2114.....	1-5/16 x 7/8
C84-2117.....	1-5/16 x 1-1/16
C84-2612.....	1-5/8 x 3/4
C84-2617.....	1-5/8 x 1-1/16
C84-2621.....	1-5/8 x 1-5/16
C84-3021.....	1-7/8 x 1-5/16
C84-3026.....	1-7/8 x 1-5/8
C84-4030.....	2-1/2 x 1-7/8

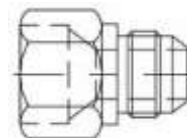
Tube Reducer JIC x JIC Style A

(Nut =C83-**N)



P/Number	Thread
C84-0907R.....	9/16 x 7/16
C84-1207R.....	3/4 x 7/16
C84-1209R.....	3/4 x 9/16
C84-1409R.....	7/8 x 9/16
C84-1707R.....	1-1/16 x 7/16
C84-1709R.....	1-1/16 x 9/16
C84-1712R.....	1-1/16 x 3/4
C84-2112R.....	1-5/16 x 3/4
C84-2114R.....	1-5/16 x 7/8
C84-2117R.....	1-5/16 x 1-1/16
C84-2612R.....	1-5/8 x 3/4
C84-2617R.....	1-5/8 x 1-1/16
C84-2621R.....	1-5/8 x 1-5/16
* C84-3017R.....	1-7/8 x 1-1/16
C84-3021R.....	1-7/8 x 1-5/16

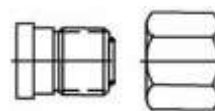
Tube Reducer Fixed F/M JIC x JIC Style B



P/Number	Thread
C84-1207B	3/4 x 7/16
C84-1412B	7/8 x 3/4
C84-1714B	1-1/16 x 7/8
C84-3026B	1-7/8 x 1-5/8
C84-4030B	2-1/2 x 1-7/8

Tube Reducer Assembly F/M ORFS x ORFS

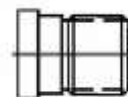
(Nut = F83-**N, Reducer = F84-****R)



P/Number	Thread
F84-1109	11/16 x 9/16
F84-1309	13/16 x 9/16
F84-1311	13/16 x 11/16
F84-1613	1 x 13/16
F84-1913	1-3/16 x 13/16

Tube Reducer F/M ORFS x ORFS

(Nut F83-**N)



P/Number	Thread
* F84-1109R.....	11/16 x 9/16
F84-1309R.....	13/16 x 9/16
* F84-1311R.....	13/16 x 11/16
F84-1613R.....	1 x 13/16
F84-1913R.....	1-3/16 x 13/16

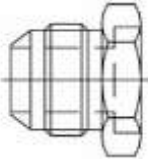
For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.

Section 4

Adaptors

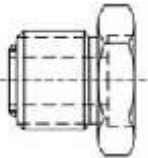


Tubeweld Nipple JIC Male



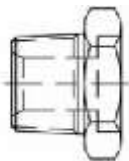
P/Number	Thread	Tube
C86-0704.....	7/16.....	1/4
C86-0906.....	9/16.....	3/8
C86-0908.....	9/16.....	1/2
C86-1206.....	3/4.....	3/8
C86-1208.....	3/4.....	1/2
C86-1210.....	3/4.....	5/8
C86-1212.....	3/4.....	3/4
C86-1410.....	7/8.....	5/8
C86-1412.....	7/8.....	3/4
C86-1712.....	1-1/16.....	3/4
C86-1714.....	1-1/16.....	7/8
C86-1716.....	1-1/16.....	1
C86-1720.....	1-1/16.....	1-1/4
* C86-1914.....	1-3/16.....	7/8
C86-2116.....	1-5/16.....	1
C86-2120.....	1-5/16.....	1-1/4
C86-2124.....	1-5/16.....	1-1/2
C86-2620.....	1-5/8.....	1-1/4
C86-2624.....	1-5/8.....	1-1/2
C86-3024.....	1-7/8.....	1-1/2
C86-4032.....	2-1/2.....	2

Tubeweld Nipple ORFS



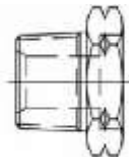
P/Number	Thread	Tube
* F86-0904.....	9/16.....	1/4
F86-0906.....	9/16.....	3/8
* F86-1106.....	11/16.....	3/8
* F86-1308.....	13/16.....	1/2
* F86-1610.....	1.....	5/8
* F86-1912.....	1-3/16.....	3/4
* F86-2316.....	1-7/16.....	1
* F86-2720.....	1-11/16.....	1-1/4

Tubeweld Nipple BSPT Male



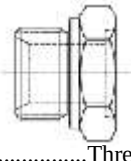
P/Number.....	Thread.....	Tube
CB86-0404.....	1/4.....	1/4
CB86-0406.....	1/4.....	3/8
* CB86-0604.....	3/8.....	1/4
CB86-0606.....	3/8.....	3/8
CB86-0608.....	3/8.....	1/2
CB86-0610.....	3/8.....	5/8
CB86-0806.....	1/2.....	3/8
CB86-0808.....	1/2.....	1/2
CB86-0810.....	1/2.....	5/8
CB86-0812.....	1/2.....	3/4
CB86-0816.....	1/2.....	1
CB86-1212.....	3/4.....	3/4
CB86-1216.....	3/4.....	1
* CB86-1220.....	3/4.....	1-1/4
CB86-1612.....	1.....	3/4
CB86-1616.....	1.....	1
CB86-1620.....	1.....	1-1/4
CB86-1624.....	1.....	1-1/2
CB86-2016.....	1-1/4.....	1
CB86-2020.....	1-1/4.....	1-1/4
CB86-2024.....	1-1/4.....	1-1/2
CB86-2420.....	1-1/2.....	1-1/4
CB86-2424.....	1-1/2.....	1-1/2
CB86-3232.....	2.....	2

Tubeweld Nipple NPTF Male



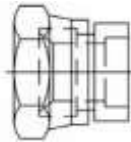
P/Number.....	Thread.....	Tube
* CN86-0406.....	1/4.....	3/8
CN86-0606.....	3/8.....	3/8
* CN86-0608.....	3/8.....	1/2
CN86-1212.....	3/4.....	3/4

Tubeweld Nipple BSPP Male



P/Number	Thread	Tube
CP86-0406.....	1/4.....	3/8
CP86-0608.....	3/8.....	1/2
CP86-0810.....	1/2.....	5/8
CP86-1216.....	3/4.....	1
CP86-1620.....	1.....	1-1/4
CP86-2024.....	1-1/4.....	1-1/2

Tubeweld Union JIC Female



P/Number	Thread	Tube
C87-0704.....	7/16.....	1/4
C87-0904.....	9/16.....	1/4
C87-0906.....	9/16.....	3/8
C87-1206.....	3/4.....	3/8
C87-1208.....	3/4.....	1/2
C87-1210.....	3/4.....	5/8
C87-1408.....	7/8.....	1/2
C87-1410.....	7/8.....	5/8
C87-1412.....	7/8.....	3/4
C87-1712.....	1-1/16.....	3/4
C87-1716.....	1-1/16.....	1
C87H-1716.....	1-1/16.....	1
C87-2116.....	1-5/16.....	1
C87-2120.....	1-5/16.....	1-1/4
C87-2620.....	1-5/8.....	1-1/4
C87-2624.....	1-5/8.....	1-1/2
C87-3024.....	1-7/8.....	1-1/2
C87-4032.....	2-1/2.....	2



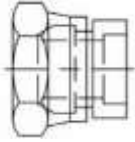
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*Manufactured To Order (minimum qtys may apply)

Section 4

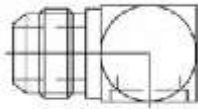
Adaptors

Tubeweld Union BSPP Female



P/Number	Thread	Tube
CB87-0404	1/4	1/4
CB87-0406	1/4	3/8
CB87-0606	3/8	3/8
CB87-0808	1/2	1/2
CB87-0810	1/2	5/8
CB87-0812	1/2	3/4
CB87-1212	3/4	3/4
CB87-1616	1	1
CB87-1620	1	1-1/4
CB87-2016	1-1/4	1
CB87-2020	1-1/4	1-1/4
CB87-2424	1-1/2	1-1/2

Tubeweld 90 deg Elbow JIC Male



P/Number	Thread	Tube
* C88-0704	7/16	1/4
C88-0906	9/16	3/8
C88-0908	9/16	1/2
* C88-1206	3/4	3/8
- C88-1208	3/4	1/2
C88-1210	3/4	5/8
* C88-1212	3/4	3/4
C88-1410	7/8	5/8
* C88-1712	1-1/16	3/4
C88-1714	1-1/16	7/8
C88-2116	1-5/16	1
* C88-2120	1-5/16	1-1/4
* C88-2620	1-5/8	1-1/4

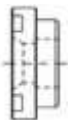
Tubeweld Flange SAE O'Ring Code 61 (3000 psi)



P/Number	Flange	Tube
C92-0808	1/2	1/2
C92-0810	1/2	5/8
C92-1208	3/4	1/2
* C92-1210	3/4	5/8
C92-1212	3/4	3/4
C92-1216	3/4	1
C92-1608	1	1/2
* C92-1610	1	5/8
C92-1612	1	3/4
C92-1616	1	1
C92-1620	1	1-1/4
C92-2012	1-1/4	3/4
C92-2016	1-1/4	1
C92-2020	1-1/4	1-1/4
C92-2024	1-1/4	1-1/2
C92-2416	1-1/2	1
C92-2420	1-1/2	1-1/4
C92-2424	1-1/2	1-1/2
* C92-2432	1-1/2	2
C92-3220	2	1-1/4
C92-3224	2	1-1/2
C92-3232	2	2
* C92-4032	2-1/2	2
C92-4040	2-1/2	2-1/2

90 Duro 'O' Ring supplied

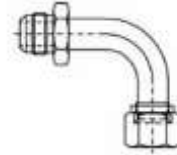
Tubeweld Flange SAE O'Ring Code 62 (6000 psi)



P/Number	Flange	Tube
C92H-0808	1/2	1/2
C92H-0812	1/2	3/4
C92H-1212	3/4	3/4
* C92H-1216	3/4	1
* C92H-1612	1	3/4
C92H-1616	1	1
C92H-1620	1	1-1/4
C92H-2016	1-1/4	1
C92H-2020	1-1/4	1-1/4
C92H-2024	1-1/4	1-1/2
C92H-2420	1-1/2	1-1/4
C92H-2424	1-1/2	1-1/2
C92H-3224	2	1-1/2
C92H-3232	2	2

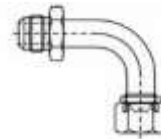
90 Duro 'O' Ring supplied

Short 90 deg. Tube JIC x JIC M/F SAE 100R2 Working Pressure



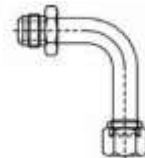
P/Number	Thread
C93-0707	7/16 x 7/16
C93-0808	1/2 x 1/2
C93-0909	9/16 x 9/16
C93-1212	3/4 x 3/4
C93-1414	7/8 x 7/8
C93-1717	1-1/16 x 1-1/16
C93-2121	1-5/16 x 1-5/16
C93-2626	1-5/8 x 1-5/8
C93-3030	1-7/8 x 1-7/8
C93-4040	2-1/2 x 2-1/2

Short 90 deg. Tube M/F JIC x JIC SAE 100R12 Working Pressure



P/Number	Thread
C93H-1212	3/4 x 3/4
C93H-1717	1-1/16 x 1-1/16
C93H-2121	1-5/16 x 1-5/16
C93H-2626	1-5/8 x 1-5/8
C93H-3030	1-7/8 x 1-7/8

Long 90 deg. Tube M/F JIC x JIC SAE 100R2 Working Pressure



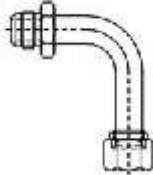
P/Number	Thread
C94-0707	7/16 x 7/16
C94-0808	1/2 x 1/2
C94-0909	9/16 x 9/16
C94-1212	3/4 x 3/4
C94-1414	7/8 x 7/8
C94-1717	1-1/16 x 1-1/16
C94-2121	1-5/16 x 1-5/16
C94-2626	1-5/8 x 1-5/8
C94-3030	1-7/8 x 1-7/8

For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.

Section 4 Adaptors

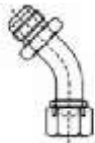


Long 90 deg. Tube M/F JIC x JIC SAE 100R12 Working Pressure



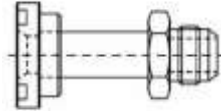
P/Number	Thread
C94H-1212	3/4 x 3/4
C94H-1717	1-1/16 x 1-1/16
C94H-2121	1-5/16 x 1-5/16
C94H-2626	1-5/8 x 1-5/8
C94H-3030	1-7/8 x 1-7/8

Short 45 deg. Tube M/F JIC x JIC SAE 100R2 Working Pressure



P/Number	Thread
C95-0707	7/16 x 7/16
* C95-0808	1/2 x 1/2
C95-0909	9/16 x 9/16
C95-1212	3/4 x 3/4
C95-1414	7/8 x 7/8
C95-1717	1-1/16 x 1-1/16
C95-2121	1-5/16 x 1-5/16
C95-2626	1-5/8 x 1-5/8

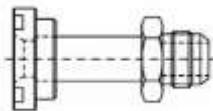
Straight Flangehead JIC Male x SAE (Code 61) SAE 100R2 Working Pressure



P/Number	Thread	Flange
C96-1208	3/4	1/2
C96-1212	3/4	3/4
C96-1412	7/8	3/4
C96-1712	1-1/16	3/4
C96-1716	1-1/16	1
C96-1720	1-1/16	1-1/4
C96-2116	1-5/16	1
C96-2120	1-5/16	1-1/4
C96-2124	1-5/16	1-1/2
C96-2620	1-5/8	1-1/4
C96-2624	1-5/8	1-1/2
C96-2632	1-5/8	2
C96-3024	1-7/8	1-1/2
C96-3032	1-7/8	2
C96-4032	2-1/2	2

90 Duro 'O' Ring supplied

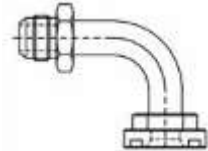
Straight Flangehead JIC Male x SAE (Code 62) SAE 100R12 Working Pressure



P/Number	Thread	Flange
C96H-1712	1-1/16	3/4
C96H-1716	1-1/16	1
C96H-2116	1-5/16	1
C96H-2120	1-5/16	1-1/4
C96H-2620	1-5/8	1-1/4
C96H-2624	1-5/8	1-1/2
C96H-3020	1-7/8	1-1/4
C96H-3024	1-7/8	1-1/2

90 Duro 'O' Ring supplied

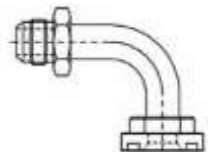
90 deg. Flangehead JIC Male x SAE (Code 61) SAE 100R2 Working Pressure



P/Number	Thread	Flange
C97-1208	3/4	1/2
C97-1212	3/4	3/4
C97-1412	7/8	3/4
C97-1416	7/8	1
C97-1712	1-1/16	3/4
C97-1716	1-1/16	1
C97-1720	1-1/16	1-1/4
* C97-1724	1-1/16	1-1/2
C97-2116	1-5/16	1
C97-2120	1-5/16	1-1/4
C97-2124	1-5/16	1-1/2
C97-2616	1-5/8	1
C97-2620	1-5/8	1-1/4
C97-2624	1-5/8	1-1/2
C97-2632	1-5/8	2
* C97-3020	1-7/8	1-1/4
C97-3024	1-7/8	1-1/2
C97-4032	2-1/2	2
C97-4040	2-1/2	2-1/2

90 Duro 'O' Ring supplied

90 deg. Flangehead JIC Male x SAE (Code 62) SAE 100R12 Working Pressure



P/Number	Thread	Flange
C97H-1712	1-1/16	3/4
C97H-1716	1-1/16	1
* C97H-1720	1-1/16	1-1/4
C97H-2112	1-5/16	3/4
C97H-2116	1-5/16	1
C97H-2120	1-5/16	1-1/4
C97H-2620	1-5/8	1-1/4
C97H-2624	1-5/8	1-1/2
* C97H-3020	1-7/8	1-1/4
C97H-3024	1-7/8	1-1/2
C97H-4024	2-1/2	1-1/2

90 Duro 'O' Ring supplied



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*Manufactured To Order (minimum qtys may apply)

Section 4

Adaptors

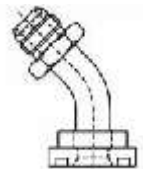
45 deg. Flangehead JIC Male x SAE (Code 61) SAE 100R2 Working Pressure



P/Number	Thread	Flange
C98-1208	3/4	1/2
C98-1212	3/4	3/4
C98-1712	1-1/16	3/4
C98-1716	1-1/16	1
C98-2116	1-5/16	1
C98-2120	1-5/16	1-1/4
C98-2124	1-5/16	1-1/2
C98-2620	1-5/8	1-1/4
C98-2624	1-5/8	1-1/2
* C98-3024	1-7/8	1-1/2

90 Duro 'O' Ring supplied

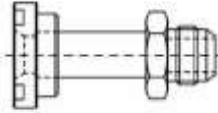
45 deg. Flangehead JIC Male x SAE (Code 62) SAE 100R12 Working Pressure



P/Number	Thread	Flange
C98H-1408	7/8	1/2
C98H-1712	1-1/16	3/4
C98H-2116	1-5/16	1
C98H-2620	1-5/8	1-1/4
C98H-2624	1-5/8	1-1/2

90 Duro 'O' Ring supplied

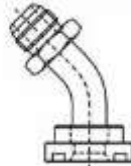
Straight Flangehead JIC Male x SAE (Code 62) 6000 psi Working Pressure



P/Number	Thread	Flange
12FLH6K-12MJ	1-1/16	3/4
16FLH6K-12MJ	1-1/16	1
16FLH6K-16MJ	1	1
16FLH6K-20MJ	1	1
20FLH6K-16MJ	1-1/4	1-1/4
20FLH6K-20MJ	1-1/4	1-1/4
24FLH6K-20MJ	1-1/2	1-1/2
24FLH6K-24MJ	1-1/2	1-1/2

90 Duro 'O' Ring NOT included

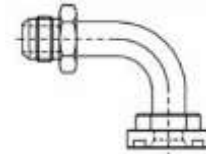
45-deg Flangehead JIC Male x SAE (Code 62) 6000 psi Working Pressure



P/Number	Thread	Flange
12FLH6K-12MJ45	1-1/16	3/4
16FLH6K-16MJ45	1-5/16	1
20FLH6K-20MJ45	1-5/8	1-1/4

90 Duro 'O' Ring NOT included

90-deg Flangehead JIC Male x SAE (Code 62) 6000 psi Working Pressure



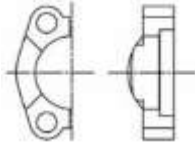
P/Number	Thread	Flange
12FLH6K-12MJ90	1-1/16	3/4
12FLH6K-16MJ90	1-1/16	3/4
16FLH6K-12MJ90	1-1/16	1
16FLH6K-16MJ90	1-5/16	1
16FLH6K-20MJ90	1-5/8	1
20FLH6K-16MJ90	1-5/16	1-1/4
20FLH6K-20MJ90	1-5/8	1-1/4
24FLH6K-20MJ90	1-5/8	1-1/2

90 Duro 'O' Ring NOT included

Section 4 Adaptors

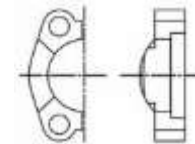


SAE Split Flange Clamp Code 61 UNC & Metric Set Screws Refer Page 4.44



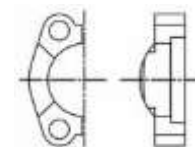
P/Number	Flange
FSC-08	1/2
FSC-12	3/4
FSC-16	1
FSC-20	1-1/4
FSC-24	1-1/2
FSC-32	2
FSC-40	2-1/2
FSC-48	3

SAE Split Flange Clamp Code 62 UNC & Metric Set Screws Refer Page 4.44



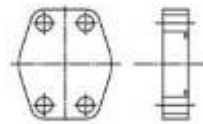
P/Number	Flange
FSCH-08	1/2
FSCH-12	3/4
FSCH-16	1
FSCH-20	1-1/4
FSCH-24	1-1/2
FSCH-32	2

SAE Split Flange CAT-style Clamp c/w UNC Bolt Kit



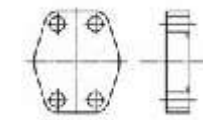
P/Number	Flange
12CATFHS	3/4
16CATFHS	1
20CATFHS	1-1/4
24CATFHS	1-1/2
32CATFHS	2

Four Bolt Flange Blank Code 61 (3000 psi) UNC & Metric Set Screws Refer Page 4.44



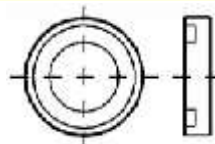
P/Number	Flange
FL-08	1/2
FL-12	3/4
FL-16	1
FL-20	1-1/4
FL-24	1-1/2
FL-32	2
FL-40	2-1/2
FL-48	3
90 Duro 'O' Ring supplied	

Four Bolt Flange Blank Code 62 (6000 psi) UNC & Metric Set Screws Refer Page 4.44



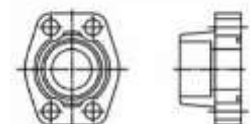
P/Number	Flange
FLH-08	1/2
FLH-12	3/4
FLH-16	1
FLH-20	1-1/4
FLH-24	1-1/2
FLH-32	2
90 Duro 'O' Ring supplied	

Flange Blank FP = Code 61 FPH = Code 62



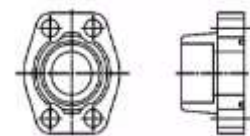
P/Number	Flange
FP-08	1/2
FP-12	3/4
FP-16	1
FP-20	1-1/4
FP-24	1-1/2
FP-32	2
FPH-08	1/2
FPH-12	3/4
FPH-16	1
FPH-20	1-1/4
FPH-24	1-1/2
FPH-32	2
90 Duro 'O' Ring supplied	

Four Bolt Flange BSPP Code 61 (3000 psi) UNC & Metric Set Screws Refer Page 4.44



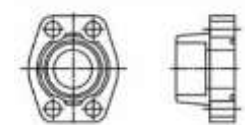
P/Number	Thread/Flange
FB-08	1/2
FB-12	3/4
FB-16	1
FB-20	1-1/4
FB-24	1-1/2
FB-32	2
FB-40	2-1/2
FB-48	3
90 Duro 'O' Ring supplied	

Four Bolt Flange NPT Code 61 (3000 psi) UNC & Metric Set Screws Refer Page 4.44



P/Number	Thread/Flange
FN-08	1/2
FN-12	3/4
FN-16	1
FN-20	1-1/4
FN-24	1-1/2
FN-32	2
90 Duro 'O' Ring supplied	

Four Bolt Flange BSPP Code 62 (6000 psi) UNC & Metric Set Screws Refer Page 4.44



P/Number	Thread/Flange
FBH-12	3/4
FBH-16	1
FBH-20	1-1/4
FBH-24	1-1/2
FBH-32	2
90 Duro 'O' Ring supplied	



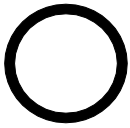
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*Manufactured To Order (minimum qtys may apply)

Section 4

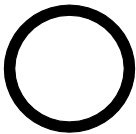
Adaptors

'O' Ring to suit SAE 'O' Ring Boss Thread



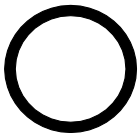
P/Number	Size
R01-06	3/8
R01-07	7/16
R01-08	1/2
R01-09	9/16
R01-12	3/4
R01-14	7/8
R01-17	1-1/16
R01-19	1-3/16
R01-21	1-5/16
R01-26	1-5/8
R01-30	1-7/8
R01-40	2-1/2

'O' Ring to Suit SAE Flange



P/Number	Size
R02-08	1/2
R02-12	3/4
R02-16	1
R02-20	1-1/4
R02-24	1-1/2
R02-32	2
R02-40	2-1/2
R02-48	3

'O' Ring to Suit BSPP Threads



P/Number	Size
R03-02	1/8
R03-04	1/4
R03-06	3/8
R03-08	1/2
R03-12	3/4
R03-16	1
R03-20	1-1/4
R03-24	1-1/2

Dowty Seal BSPP Thread DIN Std



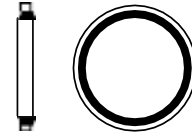
P/Number	Size
R04-02	1/8
R04-04	1/4
R04-06	3/8
R04-08	1/2
R04-12	3/4
R04-16	1
R04-20	1-1/4

Dowty Seal BSPP Thread B.S. Std



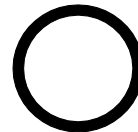
P/Number	Size
R04B-02	1/8
R04B-04	1/4
R04B-06	3/8
R04B-08	1/2
R04B-12	3/4
R04B-16	1
R04B-20	1-1/4
R04B-24	1-1/2
R04B-32	2
R04B-40	2-1/2

Dowty Seal Metric Thread



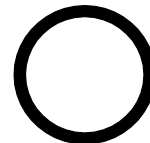
P/Number	Size
R04M-08	M8
R04M-10	M10
R04M-12	M12
R04M-14	M14
R04M-16	M16
R04M-18	M18
R04M-20	M20
R04M-22	M22
R04M-24	M24
R04M-26	M26
R04M-27	M27
R04M-33	M33
R04M-42	M42
R04M-48	M48

'O' Ring to Suit Male Swivel



P/Number	Size
R05-04	1/4
R05-06	3/8
R05-08	1/2

'O' Ring to Suit ORFS Fittings



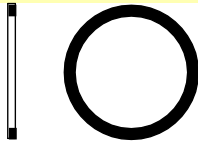
P/Number	Size
R06-09	9/16
R06-11	11/16
R06-13	13/16
R06-16	1
R06-19	1-3/16
R06-23	1-7/16
R06-27	1-11/16
R06-32	2

For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.

Section 4 Adaptors

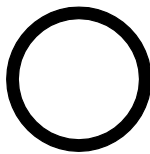


Retaining Ring For BSPP 'O' Ring



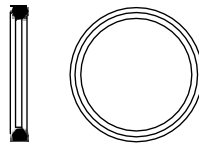
P/Number	Size
R13-02.....	1/8
R13-04.....	1/4
R13-06.....	3/8
R13-08.....	1/2
R13-12.....	3/4
R13-16.....	1
R13-20.....	1-1/4
R13-24.....	1-1/2

'O' Ring Encapsulated to Suit BSPP Threads



P/Number	Size
R19-02.....	1/8
R19-04.....	1/4
R19-06.....	3/8
R19-08.....	1/2
R19-12.....	3/4
R19-16.....	1
R19-20.....	1-1/4
R19-24.....	1-1/2

Metric & BSPP Seal Rings



P/Number.....	Size
DKR-1/4.....	1/4
DKR-3/8.....	3/8
DKR-1/2.....	1/2
DKR-3/4.....	3/4
DKR-1.....	1
DKR-1-1/4.....	1-1/4
DKR-1-1/2.....	1-1/2
DKR-M12.....	M12
DKR-M14.....	M14
DKR-M16.....	M16
DKR-M18.....	M18
DKR-M22.....	M22

Southcott O-ring Kit UNO, ORFS, C61 & C62



P/Number
SORKIT

Southcott O-ring Kit BSPP O-ring & retainer



P/Number.....
SORKIT-P BSPP O-ring & Ret.

Southcott Bonded Seal Kit Metric Seal



P/Number
SORKIT-DM

Southcott Bonded Seal Kit BSPP Seal



P/Number
SORKIT-DP



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*Manufactured To Order (minimum qtys may apply)

Section 4

Adaptors

BOLT KIT SELECTION CHART

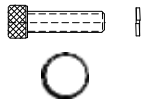
CODE 61 FLANGES							CODE 62 Flanges				
Split	Blank	Solid Flange Blocks			BOLT KITS		Split	Blank	Blocks	BOLT KITS	
Flanges	Flanges	BSPP	NPT	WELDON	Metric	UNC	Flanges	Flanges	BSPP	Metric	UNC
FSC-08	FL-08	FB-08	FN-08	FW-08	BKM-08	BKU-5/16	FSC-08	FLH-08	FBH-08	BKM-08	BKU-5/16
FSC-12	FL-12	FB-12	FN-12	FW-12	BKM-10	BKU-3/8	FSC-12	FLH-12	FBH-12	BKMH-10	BKU-3/8
FSC-16	FL-16	FB-16	FN-16	FW-16	BKM-10	BKU-3/8	FSC-16	FLH-16	FBH-16	BKMH-12	BKU-7/16
FSC-20	FL-20	FB-20	FN-20	FW-20	BKM-10	BKU-7/16	FSC-20	FLH-20	FBH-20	BKM-14	BKU-1/2
FSC-24	FL-24	FB-24	FN-24	FW-24	BKM-12	BKU-1/2	FSC-24	FLH-24	FBH-24	BKM-16	BKU-5/8
FSC-32	FL-32	FB-32	FN-32	FW-32	BKM-12	BKU-1/2	FSC-32	FLH-32	FBH-32	BKM-20	BKU-3/4
FSC-40	FL-40				BKM-12	BKU-1/2					
FSC-48	FL-48				BKM-16	BKU-5/8					

NB: Choose Cap Screws only for the Solid Flange Blocks

BOLT KIT UNC

includes four cap screws
four spring washers
one 90 Duro 'O' Ring

Suits split or solid type

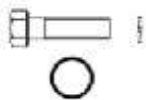


P/Number	Thread
BKU-5/16CAP	5/16 x 18tpi
BKU-3/8CAP	3/8 x 16tpi
BKU-7/16CAP	7/16 x 14tpi
BKU-1/2CAP	1/2 x 13tpi
BKU-5/8CAP	5/8 x 11tpi
BKU-3/4CAP	3/4 x 10tpi
BKU-3/8CAP	3/8 x 16tpi
BKU-7/16CAP	7/16 x 14tpi
BKU-1/2CAP	1/2 x 13tpi

BOLT KIT UNC

includes four hex head bolts
four spring washers
one 90 Duro 'O' Ring

Suits split type only

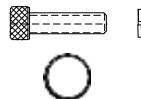


P/Number	Thread
BKU-5/16HEX	5/16 x 18tpi
BKU-3/8HEX	3/8 x 16tpi
BKU-7/16HEX	7/16 x 14tpi
BKU-1/2HEX	1/2 x 13tpi
BKU-5/8HEX	5/8 x 11tpi
BKU-3/4HEX	3/4 x 10tpi
BKU-3/8HEX	3/8 x 16tpi
BKU-7/16HEX	7/16 x 14tpi
BKU-1/2HEX	1/2 x 13tpi

BOLT KIT METRIC

includes four cap screws
four spring washers
one 90 Duro 'O' Ring

Suits split or solid type

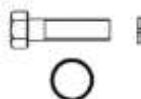


P/Number	Thread
BKM-08CAP	M8 x 1.25
BKM-10CAP	M10 x 1.5
BKM-12CAP	M12 x 1.75
BKM-14CAP	M14 x 2
BKM-16CAP	M16 x 2
BKM-20CAP	M20 x 2.5
BKMH-10CAP	M10 x 1.5
BKMH-12CAP	M12 x 1.75
BKMH-16CAP	M16 x 2

BOLT KIT METRIC

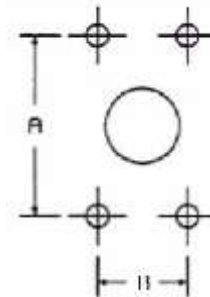
includes four hex head bolts
four spring washers
one 90 Duro 'O' Ring

Suits split type only



P/Number	Thread
BKM-08HEX	M8 x 1.25
BKM-10HEX	M10 x 1.5
BKM-12HEX	M12 x 1.75
BKM-14HEX	M14 x 2
BKM-16HEX	M16 x 2
BKM-20HEX	M20 x 2.5
BKMH-10HEX	M10 x 1.5
BKMH-12HEX	M12 x 1.75

FLANGE BOLT CENTRES



Code 61

Dash Size	Inch-Size	A	B	M.W. P. psi
-08	1/2"	38.1	17.5	5000
-12	3/4"	47.6	22.3	5000
-16	1"	52.4	26.2	5000
-20	1-1/4"	58.7	30.2	4000
-24	1-1/2"	69.8	35.7	3000
-32	2"	77.8	42.9	3000
-40	2-1/2"	88.9	50.8	2500
-48	3"	106.4	61.9	2000

Code 62

Dash Size	Inch-Size	A	B	M.W. P. psi
-08	1/2"	40.5	18.2	6000
-12	3/4"	50.8	23.8	6000
-16	1"	57.1	27.8	6000
-20	1-1/4"	66.7	31.8	6000
-24	1-1/2"	79.4	36.5	6000
-32	2"	96.8	44.5	6000

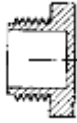
For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.

Section 4

Adaptors

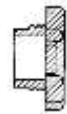


PLUG PLASTIC JIC/SAE/ORFS



P/Number	Thread
PPJ-07	7/16
PPJ-08	1/2
PPJ-09	9/16
PPJ-10	5/8
PPJ-11	11/16
PPJ-12	3/4
PPJ-13	13/16
PPJ-14	7/8
PPJ-16	1
PPJ-17	1-1/16
PPJ-19	1-3/16
PPJ-21	1-5/16
PPJ-23	1-7/16
PPJ-26	1-5/8
PPJ-30	1-7/8
PPJ-40	2-1/2

PLUG PLASTIC BSP/NPT



P/Number	Thread
PPB-02	1/8
PPB-04	1/4
PPB-06	3/8
PPB-08	1/2
PPB-10	5/8
PPB-12	3/4
PPB-16	1
PPB-20	1-1/4
PPB-24	1-1/2
PPB-32	2

PLUG PLASTIC METRIC



P/Number	Thread
PPM-12	M12 x 1.5
PPM-14	M14 x 1.5
PPM-16	M16 x 1.5
PPM-20	M20 x 1.5
PPM-22	M22 x 1.5
PPM-24	M24 x 1.5
PPM-26	M26 x 1.5
PPM-30	M30 x 2
PPM-33	M33 x 2
PPM-36	M36 x 2
PPM-42	M42 x 2
PPM-52	M52 x 2

CAP PLASTIC JIC/SAE/ORFS



P/Number	Thread
CPJ-07	7/16
CPJ-08	1/2
CPJ-09	9/16
CPJ-10	5/8
CPJ-11	11/16
CPJ-12	3/4
CPJ-13	13/16
CPJ-14	7/8
CPJ-16	1
CPJ-17	1-1/16
CPJ-19	1-3/16
CPJ-21	1-5/16
CPJ-23	1-7/16
CPJ-26	1-5/8
CPJ-30	1-7/8

CAP PLASTIC BSP/NPT



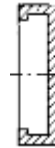
P/Number	Thread
CPB-02	1/8
CPB-04	1/4
CPB-06	3/8
CPB-08	1/2
CPB-10	5/8
CPB-12	3/4
CPB-16	1
CPB-20	1-1/4
CPB-24	1-1/2
CPB-32	2

CAP PLASTIC METRIC



P/Number	Thread
CPM-08	M8 x 1.0
CPM-10	M10 x 1.0
CPM-12	M12 x 1.5
CPM-14	M14 x 1.5
CPM-16	M16 x 1.5
CPM-20	M20 x 1.5
CPM-22	M22 x 1.5
CPM-24	M24 x 1.5
CPM-26	M26 x 1.5
CPM-30	M30 x 2
CPM-33	M33 x 2
CPM-36	M36 x 2
CPM-42	M42 x 2
CPM-52	M52 x 2

CAP PLASTIC FLANGE CODE 61



P/Number	Thread
CPF61-08	1/2
CPF61-12	3/4
CPF61-16	1
CPF61-20	1-1/4
CPF61-24	1-1/2
CPF61-32	2

CAP PLASTIC FLANGE CODE 62



P/Number	Thread
CPF62-08	1/2
CPF62-12	3/4
CPF62-16	1
CPF62-20	1-1/4
CPF62-24	1-1/2
CPF62-32	2



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HYDRAULIC ENGINEERS

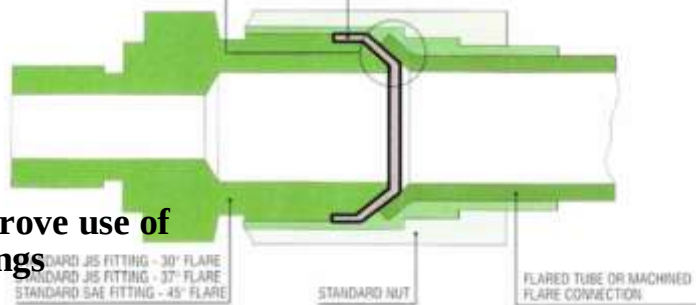
Section 4

Adaptors



flaretite development
COMBINATION OF *flaretite* SEAL,
LOCTITE SEALANT & LOCKING RIBS
CREATE A LEAK FREE JOINT

key design features
flaretite SEAL WITH LOCTITE SEALANT
AUST. REG. 137165
(GLOBALLY REGISTERED DESIGN)



NFPA and ISO Approve use of Seals in Flared Fittings

The most recent revision of the National Fluid Power Association's (NFPA) standard relating to "Hydraulic Fluid Power systems - Methods For Preventing External Leakage" now recommends the use of compliant seals to address the universal weeping problem of JIC flared fittings.

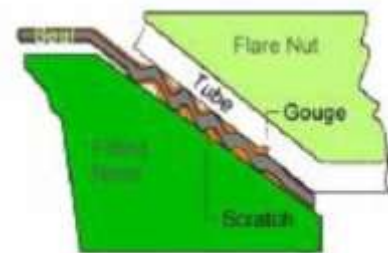
NFPA now joins the International Standards Organization (ISO) as the two leading standards organizations in the world both recommending seals be fitted to JIC type flared joints to address both environmental and OH&S issues.

Flaretite Seals have a proven history of positive leak-free performance on the most difficult and challenging global applications, such as the M1 Abrams Tanks and the latest M-777 Howitzer, where severe shock loads and vibration saw JIC flared fitting joints fail on commissioning.

In addition to these and other US Army and Navy applications Flaretite seals are fitted by manufacturers such as Wind Generator Drives and Kanga Loaders in Australia on their ride-on mini loaders to eliminate costly rework and customer compliant warranty issues.

Flaretite Seals are a metal stamping with multiple concentric rings. They are impregnated with a special Loctite coating and when inserted into a flared fitting joint the concentric rings form multiple seals down the face of the flare whilst the loctite coating fills minor fitting face imperfections providing a positive leak free seal solution.

Flaretite Seals are available in 304 stainless for 37 degree JIC standard Hydraulic system use and 316 stainless for marine applications. They are also available in 30 degree JIS, 45 degree (SAE J512 Automotive) and 45 degree (SAE J513) in copper for gas and refrigeration use.



For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.

Section 4

Adaptors



FLARETITE SEALS

Seals the mating faces of any standard JIC/SAE/JIS flare joint

Individual Seal Part No.	JIC Thread Size	Pack Qty.	
IP-37FT04-304-SOR	7/16"	1	
IP-37FT06-304-SOR	9/16"	1	
IP-37FT08-304-SOR	3/4"	1	
IP-37FT10-304-SOR	7/8"	1	
IP-37FT12-304-SOR	1-1/16"	1	
IP-37FT16-304-SOR	1-5/16"	1	
IP-37FT20-304-SOR	1-5/8"	1	
IP-37FT24-316-SGR	1-7/8"	1	
IP-37FT32-316-SGR	2-1/2"	1	

Standard Pack Part No.	JIC Thread Size	Pack Qty.		
BP-37FT04-304-SOR	7/16"	20		
BP-37FT06-304-SOR	9/16"	20		
BP-37FT08-304-SOR	3/4"	20		
BP-37FT10-304-SOR	7/8"	20		
BP-37FT12-304-SOR	1-1/16"	20		
BP-37FT16-304-SOR	1-5/16"	20		
BP-37FT20-304-SOR	1-5/8"	20		
BP-37FT24-316-SGR	1-7/8"	10		
BP-37FT32-316-SGR	2-1/2"	10		

Bulk Pack	JIC Thread Size	Pack Qty.		
QT-37FT04-304-SOR	7/16"	100		
QT-37FT06-304-SOR	9/16"	100		
QT-37FT08-304-SOR	3/4"	100		
QT-37FT10-304-SOR	7/8"	100		
QT-37FT12-304-SOR	1-1/16"	100		
QT-37FT16-304-SOR	1-5/16"	50		
QT-37FT20-304-SOR	1-5/8"	50		
QT-37FT24-316-SGR	1-7/8"	25		
QT-37FT32-316-SGR	2-1/2"	10		
FLARETITE GRAB PACK	7/16", 9/16", 3/4", 7/8", 1 1/16", 1 5/16", 1 5/8"	5, 5, 5, 5, 5, 5, 5		
Flaretite seals are available in 316 marine grade stainless steel in all sizes on request				

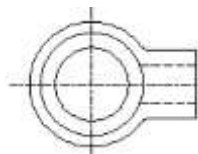
For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability.



Section 4 Adaptors

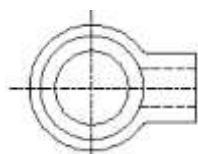
*Manufactured To Order (minimum qtys may apply)

Banjo Metric c/w Back Bore



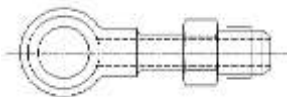
P/Number	Diam.	B/Bore
BJ1-08	8	5
BJ1-10	10	6
BJ1-12	12	8
BJ1-14	14	10

Banjo BSPP c/w Back Bore



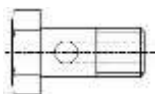
P/Number	Diam.	B/Bore
BJ2-02	1/8	1/8
BJ2-04	1/4	1/4
BJ2-06	3/8	3/8
BJ2-08	1/2	1/2

Banjo Metric to JIC-M



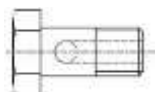
P/Number	Diam.	JIC
BJ3-0807	8	7/16
BJ3-0809	8	9/16
BJ3-1007	10	7/16
BJ3-1009	10	9/16
BJ3-1209	12	9/16
BJ3-1409	14	9/16

Banjo Bolt Metric



P/Number	Diam	Pitch
BJB-08Mx1.0	8	1.00
BJB-08Mx1.25	8	1.25
BJB-10Mx1.0	10	1.00
BJB-12Mx1.5	12	1.50
BJB-14Mx1.5	14	1.50

Banjo Bolt BSPP



P/Number	Size
BJB-02B	1/8
BJB-04B	1/4
BJB-06B	3/8
BJB-08B	1/2

Banjo Washer

P/Number	Type	Size
BJW-08M	Metric	8
BJW-10M	Metric	10
BJW-12M	Metric	12
BJW-14M	Metric	14
BJW-02B	BSPP	1/8
BJW-04B	BSPP	1/4
BJW-06B	BSPP	3/8
BJW-08B	BSPP	1/2

