



Fittings, Valves,
Air Brake Fittings, Pipes
Stainless steel Fittings

2021

LEGINES INDUSTRIAL MACHINERY INC



egines
浙江勤焊流体科技有限公司

LEGINES FACTORY



FACTORY FOREGROUND



WORKSHOP



WORKSHOP



WORKSHOP



WORKSHOP



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WORKSHOP



WORKSHOP



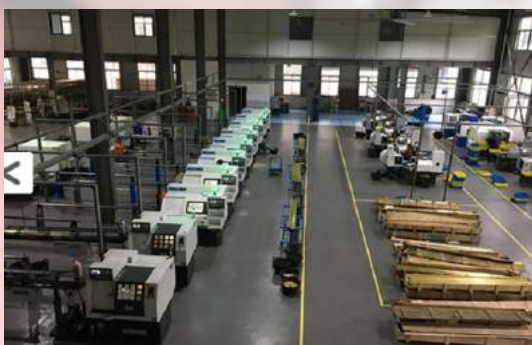
LEGINES FACTORY

Legines China factory is located in Zhuji City, Zhejiang Province, China. The factory covers an area of 3,600 square meters. It mainly produces standard brass fittings, stainless steel fittings, materials, processing dimensions, thread specifications, pressure grades in full compliance with the United States (ASTM, SAE, FMVSS106), EU (ISO) .), and the Chinese Standard (GB) standard,



CUSTOM SOLUTIONS

Custom Solutions Division wants to create value for customers by taking on significant aspects of your engineering and fabrication opportunities. We will be responsible for coordination of engineering, quality control, quotations and process development. We will ensure proper application of engineering practices, procedures and criteria while making certain the project goals of cost, quality and timeliness are met



PRODUCTION INSPECTION



Legines Zhejiang Factory has 45 CNC automatic machine tools, 36 CNC semi-automatic machine tools, 3 machining centers, one test set, one high-pressure hydraulic test set, one projector, and various calipers micrometers, and a full set of thread gauges (including NPTF, ANP, NPT, BSPT, BSP, etc.).









	SAE PIPE FITTINGS	01~14
	SAE 45° FLARE	15~26
	HOSE BARB	27~34
	PUSH ON	35~40
	SAE COMPRESSION	41~49
	D.O.T PUSH-IN	50~56
	PTC DOT PUSH-IN	57~64
	METRIC D.O.T PUSH-IN	65~70
	D.O.T AIR BRAKE NYLON TUBING	71~77
	D.O.T AIR BRAKE COPPER TUBING	78~83
	D.O.T AIR BRAKE HOSES/ENDS	84~88
	TRANSMISSION FITTINGS	89~91
	AIR BRAKE HOSE ASSEMBLIES	92~96
	GARDEN HOSE	97~102
	INVERTED FLARE	103~107
	POL (BOTTLED GAS)	108~109
	DRAIN COCKS	110~113
	BSPT/BSPP FITTINGS	114~122
	STAINLESS STEEL FITTINGS	123~132
	Hydraulic Quick Couplings	133~136
	ASSEMBLY GUIDES	137~150

S.A.E PIPE FITTINGS

3129  P4	3150  P4	3151  P4	3153  P4
3152  P4	3200  P3	3220  P3	3300  P5
3325  P6	3250  P5	3326  P6	33**  P7
3350  P8	3400  P8	3500  P8	3600  P8
3700  P9	3750  P9	3950  P9	3550  P9
3800  P9	3000  P7	1300  P6	1340*  P7





LEGINES PIPE FITTINGS

BP  P12	BCN  P13	BCF  P12	BFM  P12
BBU  P14	BTF  P13	BLF  P14	BLFM  P14


SAE 45 FLARE

440  P17	440S  P17	441  P17	441S  P18
U440  P18	40  P18	39  P18	42  P19
46  P21	48  P20	49  P22	50  P23
54  P23	55  P19	44  P24	45  P24
51  P25	432  P26	433  P26	447  P25
2GF  P24	3GF  P25		





HOSE BARB

121  P29	122  P29	123  P29	125  P30
125S  P30	126  P31	127  P31	128SV  P32
129  P33	139  P32	146  P32	168  P33
20  P34	22  P34	24  P34	25  P34
26  P34	28  P34	29  P34	

PUSH-ON

272  P37	274  P37	280  P38	282  P38
284  P38	287  P39	288  P39	294  P39
296  P40	290  P40	273  P40	


COMPRSSION

60  P43	61  P43	1611  P43	62  P44
74  P44	65  P44	68  P45	66  P46
70  P46	69  P47	79  P47	64  P48
71  P48	72  P49	2030  P49	

D.O.T PUSH-IN

1562  P52	1564  P52	1565  P52	1566  P52
1568  P53	15688  P39	1582  P53	1583  P53
1586  P53	1569  P54	1569S  P54	1570  P55
1571  P56	1571S  P56	1572  P56	1572S  P56
1554  P55	1554S  P55		

METRIC D.O.T PUSH-IN

1668M  P59	1668R  P59	1669M  P60	1669R  P60
1665  P61	1664  P61	1662  P62	1654  P62
1664B  P61	1664F  P61	1664FM  P61	16F2  P61

PTC D.O.T PUSH-IN

32PTC  P60	364PTC  P60	365PTC  P60	362PTC  P60
368PTC  P61	369PTC  P61	369PTSP  P61	371PTC  P62
372PTC  P62	379PTC  P63	24M  P63	PMTCE  P63

D.O.T AIR BRAKE NYLON TUBING

1460  P73	1461  P73	1462  P73	1474  P73
1465  P74	1468  P73	1466  P73	1469  P75
1470  P75	1464  P75	1471  P76	1472  P76
1480  P76	1495  P77	1462BF  P77	1484  P77
1484S  P77			

D.O.T AIR BRAKE COPPER

1360  P72	1361  P72	1362  P72	1374  P72
1365  P73	1368  P73	1366  P73	1369  P74
1370  P74	1364  P74	1371  P75	1472  P75
1380  P75			

D.O.T AIR BRAKE HOSE/ENDS

60RB  P78	61RB  P78	61RBSG  P78	67RBSG  P78
62RB  P79	68RB  P79	68RBN  P79	68RBSG  P80
66RBSV  P80	76RB  P80		

TRANSMISSION

60TF  P91	61TF  P91	62TF  P91	68TF  P91
69TF  P91			

GARDEN HOSE

69GH  P99	82GH  P99	75GH  P99	78GH  P99
99GH  P100	98GHSV  P100	101GHSV  P100	94GH  P100
53GH  P101	90GH  P101	K90GH  P101	PSN76  P102

POL(BOTTLED GAS)

2001  P109	2002  P109	2004  P109	2005  P109
2006  P109			

INVERTED FLARE

100  P105	105  P105	131  P105	105L  P105
302  P106	202  P106	252  P106	352  P107
402  P107	702  P107	752  P108	602  P108

TRUCK PARTS

LE-BH  P93	LE  P94	LENL  P95	LE-FITTINGS  P96
LE-S  P96	LE-SV  P96	LE-B  P96	

DRAIN COCKS

DC-100  P112	DC-101  P112	DC-103  P112	DC-104  P112
DC-105  P112	DC-106  P113	DC-107  P113	DC-108  P113
DC-109  P113	DC-110  P113		

Stainless Steel pipe fittings

S3129  P125	S3326  P125	S33**  P126	S3200  P127
S3220  P128	S3300  P128	S3153  P129	S3129  P129
S3152  P129	S3350  P130	S3420  P130	S3520  P131
S3800  P131	S3750  P131	S3600  P132	S3700  P132
S3950  P132			

BSP & BSPT FITTINGS

2500  P116	2501  P116	2510  P116	2511  P116
2520  P117	2521  P117	2530  P117	2531  P118
2543  P118	2553  P118	2611  P118	2601  P119
2013  P119	2010  P119	2020  P120	2060  P120
2080  P120	2070  P120	2080  P121	2090  P121
2040  P121	2043  P121	2033  P122	

Straight bodies: Barstock CA 360 or CA345 or C3604

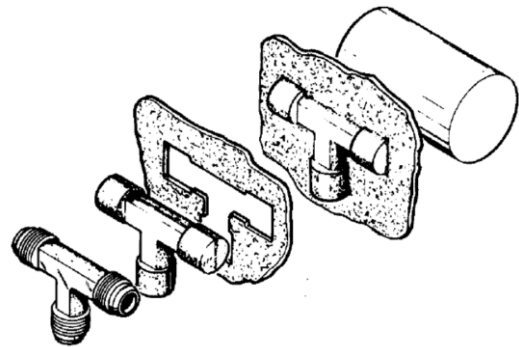
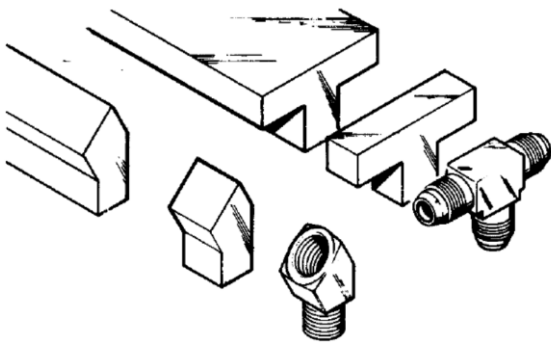
Shape bodies: Extruded barstock CA 360

or Forged CA377

Nuts: Barstock CA 360 or Forged CA377

MATERIAL COMPOSITION

ASTM B16-92				ASTM B124.283			
Ca360 Barstock Brass				Ca377 Forged Brass			
Elements	Nominal	Min	Max	Elements	Nominal	Min	Max
Copper	61.5	60.0	63.0	Copper	59.5	58.0	61.0
Lead	3.1	2.5	3.7	Lead	2	1.5	2.5
Iron			0.35	Iron			0.3
Other			0.5	Zinc	38.0		
Zinc	35.4	Balance					

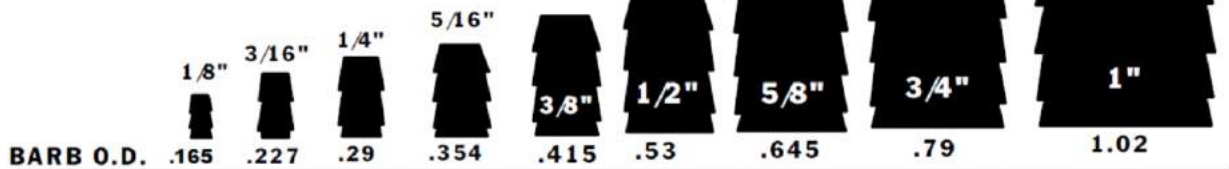


TYPE FITTINGS	THREAD CHART									
	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1"
Inverted		5/16-24	3/8-24	7/16-24	1/2-20	5/8-18	3/4-18	7/8-18	1'1/16-16	
45° Flair	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18	3/4-16	7/8-14	1'1/16-14	1'1/4-12	1'3/8-12
Compression	5/16-24	3/8-24	7/16-24		9/16-24	11/16-20	13/16-18	1'-18	1'1/16-16	
Air Brake			7/16-24		17/32-18	11/16-20	13/16-18	1'-18		
Hose brab	1/8-27		1/4-18		3/8-18	1/2-14		3/4-14		1'-11.5
Threaded	5/16-24	3/8-24	7/16-24	9/16-20						
pipe	1/8-27		1/4-18		3/8-18	1/2-14		3/4-14		1'-11.5

1/8"-27



Hose Barb Fittings



Push On Fittings

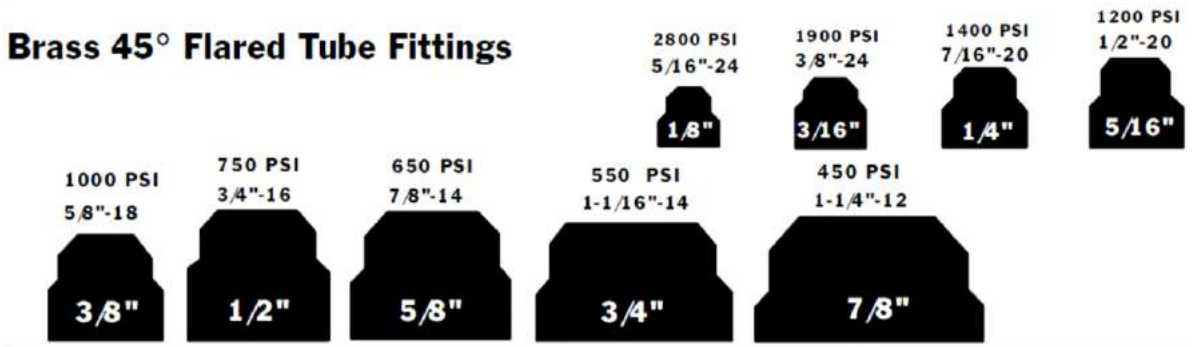


Garden Hose Fittings

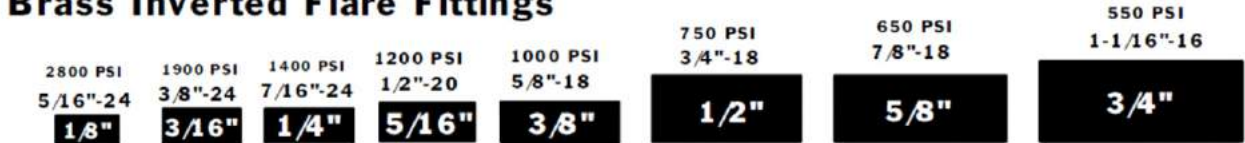
Male Garden Hose Threads are 3/4" with O.D. of 1.0625 and 11-1/2 threads per inch



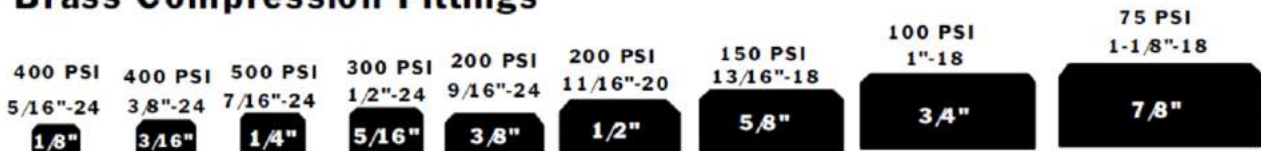
Brass 45° Flared Tube Fittings



Brass Inverted Flare Fittings



Brass Compression Fittings



Tubing O.D. Size





Legines

S.A.E PIPE FITTINGS

Pipe Fittings

SAE Standards
Dryseal Threads
Forgings & Extruded

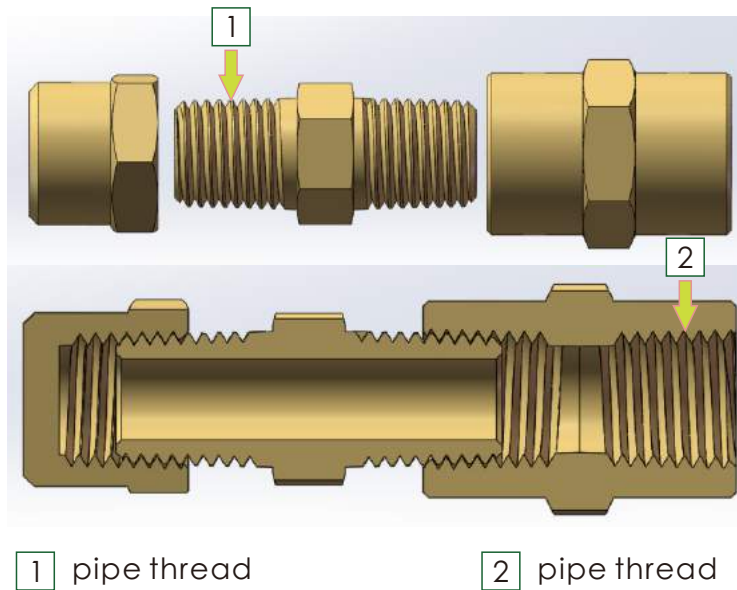


Fittings meet the requirements of the specific SAE standard called out in the product sections



European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)

1



1 pipe thread

2 pipe thread

PIPE SIZE	1/16	1/8	1/4	3/8	1/2	3/4	1"
THREAD SIZE	1/16-27	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1"-1.1/2

Typical cation:

Grease, refrigeration, instrumentation and hydraulic systems. Fuel, LP and natural gas available on special order

Pressure:

Operating pressure up to 1200 psi

Vibration:

Fair resistance.

Temperature Range:

-65° F to +250° F (-53° C to +121° C)

Material:

CA 360 Brass for Barstock fittings., CA377 Brass for forged fittings

Used With:

Brass, bronze and iron pipe.

Advantages:

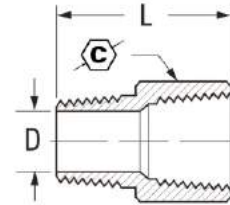
Dryseal pipe threads (NPTF). Large range of sizes and configurations.



S.A.E PIPE FITTINGS

PART#	Thread size	C	D	L	W.G	Price
3200L-AA	F1/8×M1/8	1/2	.219	.83		
3200-AA	F1/8×M1/8	9/16	.219	.88		
3200L-BA	F1/4×M1/8	5/8	.219	.94		
3200-BA	F1/4×M1/8	3/4	.219	1.06		
3200L-BB	F1/4×M1/4	5/8	.312	1.00		
3200-BB	F1/4×M1/4	3/4	.312	1.25		
3200L-CA	F3/8×M1/8	3/4	.219	1.00		
3200-CA	F3/8×M1/8	7/8	.219	1.00		
3200L-CB	F3/8×M1/4	13/16	.312	1.12		
3200-CB	F3/8×M1/4	7/8	.312	1.25		
3200L-CC	F3/8×M3/8	13/16	.438	1.12		
3200-CC	F3/8×M3/8	7/8	.438	1.25		
3200L-DB	F1/2×M1/4	15/16	.312	1.19		
3200-DB	F1/2×M1/4	1-1/16	.312	1.46		
3200L-DC	F1/2×M3/8	15/16	.438	1.19		
3200-DC	F1/2×M3/8	1-1/16	.438	1.47		
3200L-DD	F1/2×M1/2	15/16	.562	1.31		
3200-DD	F1/2×M1/2	1-1/16	.562	1.66		
3200-EC	F3/4×M3/8	1-1/4	.438	1.59		
3200-ED	F3/4×M1/2	1-1/4	.563	1.69		
3200-EE	F3/4×M3/4	1-1/4	.750	1.69		

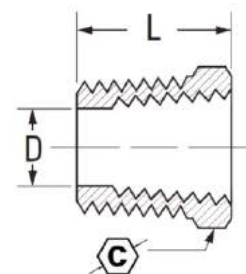
Adapter
(Ref.SAENO.130139)



L:Light

PART#	Thread size	C	D	L	W.G	Price
3220L-BA	M1/4×F1/8	9/16	.32	.62		
3220-BA	M1/4×F1/8	9/16	.32	.75		
3220-CA	M3/8×F1/8	11/16	.337	.75		
3220L-CB	M3/8×F1/4	11/16	.435	.69		
3220-CB	M3/8×F1/4	3/4	.435	.75		
3220-DA	M1/2×F1/8	7/8	.56	.87		
3220L-DB	M1/2×F1/4	7/8	.56	.87		
3220-DB	M1/2×F1/4	7/8	.56	1.0		
3220L-DC	M1/2×F3/8	7/8	.56	.87		
3220-DC	M1/2×F3/8	7/8	.56	1.0		
3220-EA	M3/4×F1/8	1-1/8	.74	.94		
3220-EB	M3/4×F1/4	1-1/8	.708	.94		
3220-EC	M3/4×F3/8	1-1/8	.708	.94		
3220-ED	M3/4×F1/2	1-1/8	.708	.94		
3220-HB	M1"×F1/4	1-3/8	.95	1.12		
3220-HC	M1"×F3/8	1-3/8	.95	1.12		
3220-HD	M1"×F1/2	1-3/8	.95	1.12		
3220-HE	M1"×F3/4	1-3/8	.95	1.31		

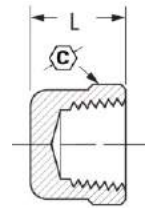
Bushing
(Ref.SAENO.130140)



S.A.E PIPE FITTINGS

PART#	Thread size	C	L	W.G	Price
*3129-A	1/8	9/16	.50		
*3129-B	1/4	11/16	.59		
*3129-C	3/8	13/16	.68		
*3129-D	1/2	1-1/8	.79		
*3129-E	3/4	1-1/4	.94		

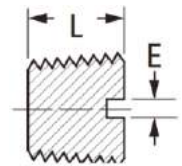
CAP



*PTF Short Thread

PART#	Thread size	E	L	W.G	Price
*3150-A	1/8	.05	.31		
*3150-B	1/4	.08	.42		
*3150-C	3/8	.09	.45		

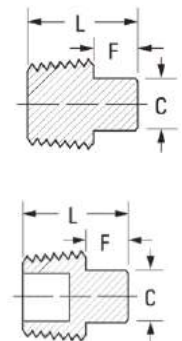
Slotted Plug



*PTF Short Thread

PART#	Thread size	C	F	L	W.G	Price
3151-A	1/8	.28	.24	.59		
3151-B	1/8	.37	.29	.79		
*3151L-B	1/4	.37	.29	.80		
3151-C	3/8	.43	.32	.80		
3151L-C	3/8	.43	.32	.80		
3151-D	1/2	.56	.39	1.06		
*3151L-D	1/2	.56	.39	1.06		
3151-E	3/4	.62	.43	1.11		
*3151L-E	3/4	.62	.43	1.11		

Square Head Plug



*Hollow

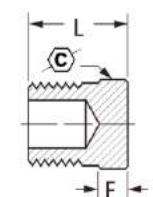
PART#	Thread size	Socket Hex	L	W.G	Price
3153-A	1/8	3/16	.30		
3153-B	1/4	1/4	.45		
3153-C	3/8	15/16	.47		
3153-D	1/2	3/8	.61		
3153-E	3/4	9/16	.62		

Hex Socket Plug



PART#	Thread size	C	F	L	W.G	Price
3152-A	1/8	7/16	.19	.55		
3152-B	1/4	9/16	.18	.62		
3152-C	3/8	11/16	.22	.72		
3152-D	1/2	7/8	.39	.87		
3152-E	3/4	1-1/16	.56	.94		

Hex Head Plug

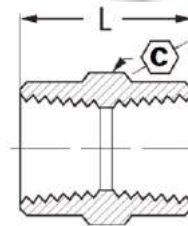


S.A.E PIPE FITTINGS

PART#	Thread size	C	L	W.G	Price
3300L-A	1/8×1/8	1/2	.75		
3300-A	1/8×1/8	15/16	.75		
3300L-B	1/4×1/4	5/8	.88		
3300-B	1/4×1/4	3/4	1.12		
3300L-C	3/8×3/8	13/16	1.00		
3300-C	3/8×3/8	7/8	1.12		
3300L-D	1/2×1/2	15/16	1.19		
3300-D	1/2×1/2	1-1/16	1.50		
3300L-E	3/4×3/4	1-1/4	1.19		
3300-E	3/4×3/4	1-1/4	1.53		
3300-H	1"×1"	1-1/2	1.89		

L:Light

Coupling
(Ref.SAE.NO.130138)

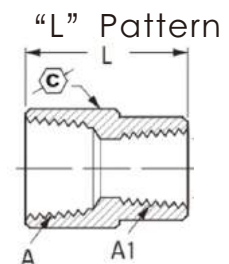


PART#	Thread size	C	L	W.G	Price
3300L-BA	1/4×1/8	5/8	.83		
3300-BA	1/4×1/8	3/4	.97		
3300-CA	3/8×1/8	7/8	.94		
3300L-CB	3/8×1/4	13/16	1.00		
3300-CB	3/8×1/4	7/8	1.16		
3300L-DA	1/2×1/8	15/16	1.19		
3300L-DB	1/2×1/4	1"	1.11		
3300-DB	1/2×1/4	1-1/16	1.28		
3300L-DC	1/2×3/8	15/16	1.19		
3300-DC	1/2×3/8	1-1/16	1.38		
*3300-EC	3/4×3/8	1-3/8	1.32		
*3300-ED	3/4×1/2	1-3/16	1.19		

*Not to SAE specs

L:Light

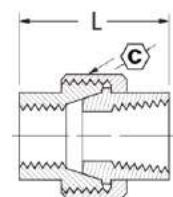
Reducer coupling
(Ref.SAE.NO.130138)



PART#	Thread size	C	L	W.G	Price
3250-A	1/8	15/16	1.19		
3250-B	1/4	1-1/16	1.31		
3250-C	3/8	1-1/4	1.75		
3250-D	1/2	1-9/16	1.79		

L:Light

Union



PART#	Thread size	C	D	D1	L	W.G	Price
3325L-AA	1/8×1/8	7/16	.219	.219	.91		
3325-AA	1/8×1/8	7/16	.219	.219	.97		
3325L-BA	1/4×1/8	9/16	.219	.219	1.00		
3325-BA	1/4×1/8	9/16	.312	.219	1.19		
3325L-BB	1/4×1/4	9/16	.312	.312	1.12		
3325-BB	1/4×1/4	9/16	.312	.312	1.38		
3325L-CA	3/8×1/8	11/16	.438	.219	1.11		
3325-CA	3/8×1/8	11/16	.438	.219	1.22		
3325L-CB	3/8×1/4	11/16	.438	.312	1.19		
3325-CB	3/8×1/4	11/16	.438	.312	1.41		
3325L-CC	3/8×3/8	11/16	.438	.438	1.25		
3325-CC	3/8×3/8	11/16	.438	.438	1.41		
3325L-DB	1/2×1/4	7/8	.562	.319	1.34		
3325-DB	1/2×1/4	7/8	.562	.319	1.62		
3325L-DC	1/2×3/8	7/8	.562	.438	1.41		
3325-DC	1/2×3/8	7/8	.562	.438	1.62		
3325L-DD	1/2×1/2	7/8	.662	.662	1.50		
3325-DD	1/2×1/2	7/8	.562	.562	1.81		
3325-ED	3/4×1/2	1-1/16	.750	.562	1.50		
3325-EE	3/4×3/4	1-1/16	.750	.750	1.96		
3325-HH	1"×1"	1-3/8	.960	.960	2.30		

L:Light

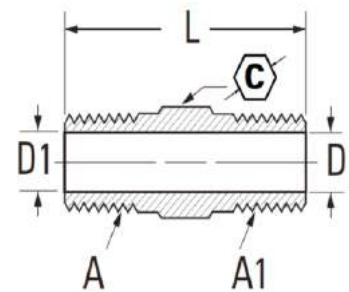
PART#	Thread size	D	L	W.G	Price
3326-A	1/8	.281	.75		
*3326-B	1/4	.375	.88		
3326-C	3/8	.500	1.00		
3326-D	1/2	.625	1.12		
3326-E	3/4	.750	1.38		

* PTF Short Thread

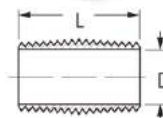
PART#	Thread size	C	L	W.G	Price
1300-A	1/8	11/16	.19		
1300-B	1/4	7/8	.25		
1300-C	3/8	1"	.25		
1300-D	1/2	1-1/8	.25		

.Jam Nuts
.Straight pipe thread

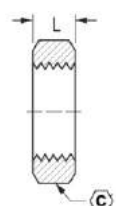
Nipple
Reducing Hex Nipple
(Ref.SAE No.130137)



Close Nipple



Locknut



S.A.E PIPE FITTINGS

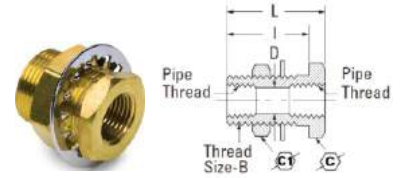
PART#	Pipe size	C	C1	Size-B	L	W.G	Price
3000-A	1/8	7/8	15/16	5/8-18	.96		
3000L-A	1/8	7/8	15/16	5/8-18	1.50		
3000-B	1/4	1"	1"	3/4-16	.94		
3000L-B	1/4	1"	1"-1/8	3/4-16	1.50		
3000-C	3/8	1"-1/8	1"-1/4	1"-14	1.31		
3000-D	1/2	1"-1/4	1"-3/8	1"-1/8	1.50		

L:Light

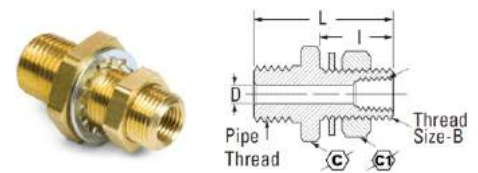
PART#	F×M	C	C1	Size-B	I	L	Price
1340	1/2×1/4	1"-1/4	15/16	3/4-16	1.13	2.16	
1341	1/2×1/4	1"-1/4	15/16	3/4-16	1.53	2.53	
1342	1/2×1/4	1"-1/4	1-3/8	1-14	1.88	2.94	
1343	1/2×1/4	1"-1/4	1-3/8	1-14	2.88	3.94	

PART#	Thread size	D	L	W.G	Price
3327-A	1/8	.281	1.50		
3328-A	1/8	.281	2.00		
3329-A	1/8	.281	2.50		
3330-A	1/8	.281	3.00		
3327-B	1/4	.375	1.50		
3328-B	1/4	.375	2.00		
3329-B	1/4	.375	2.50		
3330-B	1/4	.375	3.00		
3327-C	3/8	.500	1.50		
3328-C	3/8	.500	2.00		
3329-C	3/8	.500	2.50		
3330-C	3/8	.500	3.00		
3327-D	1/2	.625	1.50		
3328-D	1/2	.625	2.00		
3329-D	1/2	.625	2.50		
3330-D	1/2	.625	3.00		
3327-E	3/4	.750	1.50		
3328-E	3/4	.750	2.00		
3329-E	3/4	.750	2.50		
3330-E	3/4	.750	3.00		

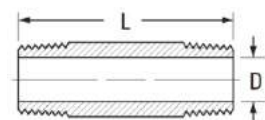
Bulkhead Coupling



Bulkhead Coupling



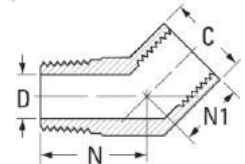
Long Nipple



S.A.E PIPE FITTINGS

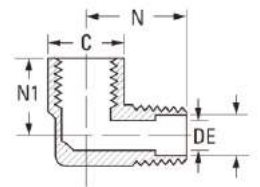
PART#	Thread size	C	D	N	N1	W.G	Price
3350-A	1/8×1/8	9/16	.219	.50	.38		
3350-B	1/4×1/4	11/16	.315	.74	.56		
3350-C	3/8×3/8	13/16	.438	.78	.56		
3350-D	1/2×1/2	1"	.562	1.00	.76		
3350-E	3/4×3/4	1"-1/4	.750	1.06	.75		

45° Street Elbow
(Ref.SAE No.130339)



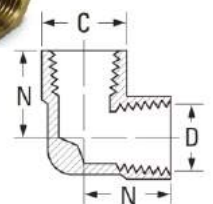
PART#	Thread size	C	D	N	N1	W.G	Price
3400-A	1/8×1/8	9/16	.219	.66	.47		
3400-B	1/4×1/4	11/16	.315	.91	.72		
3400-C	3/8×3/8	13/16	.438	.97	.78		
3400-D	1/2×1/2	1"	.562	1.25	1.03		
3400-E	3/4×3/4	1"-1/4	.750	1.38	1.12		

90° Street Elbow
(Ref.SAE No.130239)



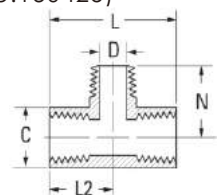
PART#	Thread size	C	D	N	W.G	Price
3500-A	1/8×1/8	9/16	.219	.55		
3500-B	1/4×1/4	11/16	.315	.78		
3500-C	3/8×3/8	13/16	.438	.84		
3500-D	1/2×1/2	1"	.562	1.09		
3500-E	3/4×3/4	1"-1/4	.750	1.16		

90° Street Elbow
(Ref.SAE No.130238)



PART#	Thread size	C	D	L2	N	W.G	Price
3600-A	F1/8×M1/8	9/16	.219	1.10	.66		
3600-B	F1/4×M1/4	11/16	.315	1.56	.91		
3600-C	F3/8×M3/8	13/16	.438	1.68	.97		
3600-D	F1/2×M1/2	1"	.562	2.18	1.25		
3600-E	F3/4×M3/4	1"-1/4	.750	2.31	1.38		

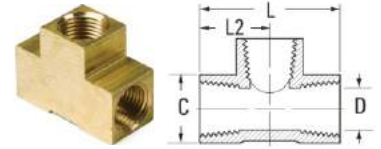
Male Branch Tee
(Ref.SAE No.130425)



S.A.E PIPE FITTINGS

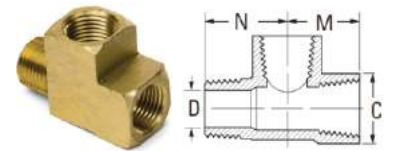
PART#	Thread size	C	D	L2	L	W.G	Price
3700-A	1/8	9/16	.339	.55	1.10		
3700-B	1/4	11/16	.438	.78	1.56		
3700-C	3/8	13/16	.516	.84	1.68		
3700-D	1/2	1"	.703	1.09	2.18		
3700-E	3/4	1"-1/4	.906	1.38	2.31		

Tee
(Ref.SAE.No.130438)



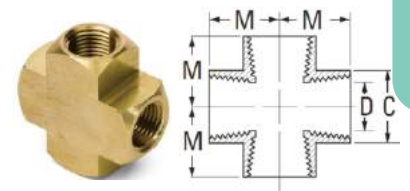
PART#	Thread size	C	D	M	N	W.G	Price
3750-A	1/8	9/16	.219	.55	.66		
3750-B	1/4	11/16	.312	.78	.90		
3750-C	3/8	13/16	.438	.84	.97		
3750-D	1/2	1"	.562	1.09	1.25		
3750-E	3/4	1"-1/4	.750	1.38	1.38		

Male Run Tee
(Ref.SAE.No.130424)



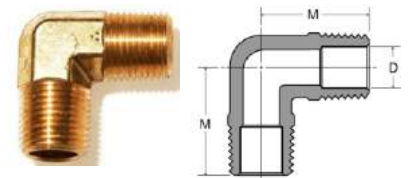
PART#	Thread size	C	D	M	W.G	Price
3950-A	1/8	1/2	.219	.50		
3950-B	1/4	11/16	.312	.75		
3950-C	3/8	13/16	.438	.81		
3950-D	1/2	1"	.562	1.09		

Cross



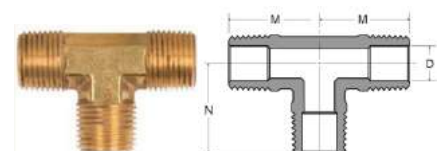
PART#	Thread size	D	M	N	W.G	Price
3550-A	1/8	.219	.79			
3550-B	1/4	.312	.87			
3550-C	3/8	.438	1.00			
3550-D	1/2	.562	1.38			
3550-BA	1/4x1/8	.219/.312	.87	.87		
3550-CB	3/8x1/4	.438/.312	1.00	.90		
3550-DC	1/2x3/8	.562/.438	1.38	1.00		

Forged 90 Male Elbow



PART#	Thread size	D	M	N	W.G	Price
3800-A	1/8	.219	.75	.75		
3800-B	1/4	.312	.86	.86		
3800-C	3/8	.438	1.09	1.09		
3800-D	1/2	.562	1.22	1.22		

Forged all Male Tee





Legines

Legines[®] PIPE FITTINGS

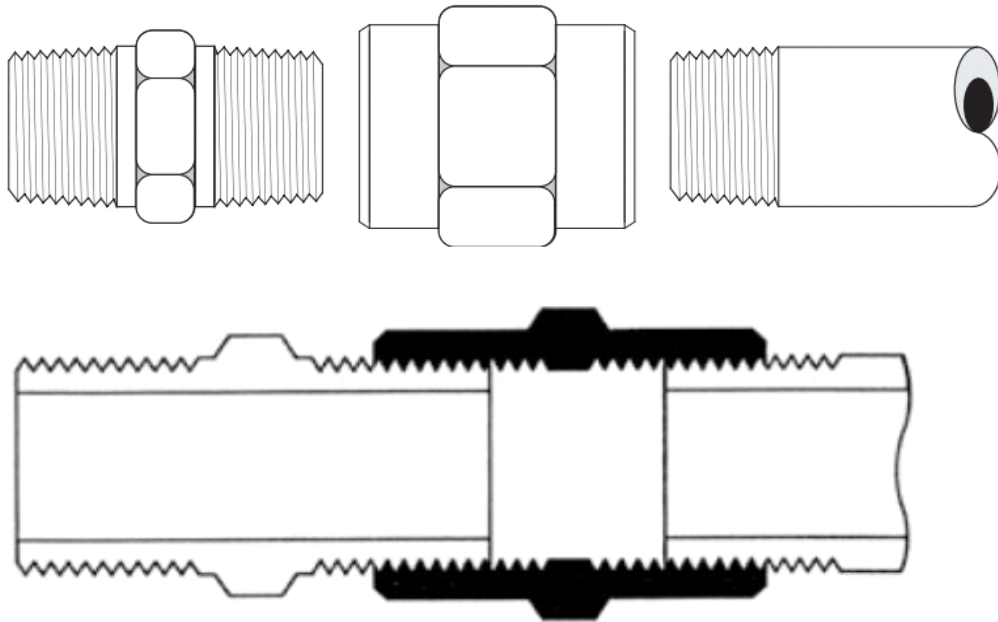
Pipe Fittings

Legines Standards
Dryseal Threads
Forgings & Extruded

Material:

JIS3604 and Hpb59-1 Brass for Barstock fittings
JIS3771 and Hpb58-3 Brass for forged fittings





PIPE SIZE	1/16	1/8	1/4	3/8	1/2	3/4	1"
BSPT (R) THREAD SIZE	1/16-28	1/8-28	1/4-19	3/8-19	1/2-14	3/4-14	1"-1.1/2
NPT THREAD SIZE	1/16-27	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1"-1.1/2

Typical cation:

Grease, refrigeration, instrumentation and hydraulic systems. Fuel, LP and natural gas available on special order

Pressure:

Operating pressure up to 1000 psi

Vibration:

Fair resistance.

Temperature Range:

-41° F to +212° F (-5° C to +100° C)

Material:

JIS3604 and Hpb59-1 Brass for Barstock fittings., JIS3771 and Hpb58-3 Brass for forged fittings

Used With:

Brass, bronze and iron pipe.

Advantages:

Pipe threads (BSPT(R)&NPT). Large range of sizes and configurations.

Actual Male Thread Profiles



PIPE FITTINGS

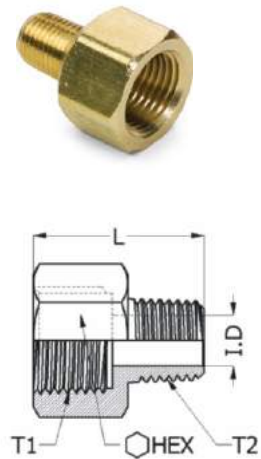
PART#	Thread size	HEX	L	W.G
BCF-201	1/4×1/8	S14	26	
BCF-302	3/8×1/8	S17	26	
BCF-302	3/8×1/4	S17	29	
BCF-401	1/2×1/8	S24	29.5	
BCF-402	1/2×1/4	S24	32.5	
BCF-403	1/2×3/8	S24	32.5	
BCF-602	3/4×1/4	S30	34	
BCF-603	3/4×3/8	S30	34	

Coupling



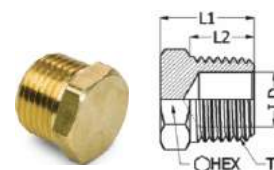
PART#	Thread size	HEX	L	I.D	W.G
BFM-101	F1/8×M1/8	S12	21	.88	
BFM-201	F1/4×M1/8	S17	24	1.06	
BFM-202	F1/4×M1/4	S17	27	1.25	
BFM-301	F3/8×M1/8	S21	24	1.00	
BFM-302	F3/8×M1/4	S21	27	1.25	
BFM-303	F3/8×M3/8	S21	27	1.25	
BFM-402	F1/2×M1/4	S24	30	1.46	
BFM-403	F1/2×M3/8	S24	30	1.47	
BFM-404	F1/2×M1/2	S24	32.5	1.66	
BFM-603	F3/4×M3/8	S30	40	1.59	
BFM-604	F3/4×M1/2	S30	42	1.69	
BFM-606	F3/4×M3/4	S30	42	1.69	

Adapter



PART#	Thread size	HEX	L1	L2	I.D	W.G
BP-01	1/8	S10	14	9	5.5	
BP-02	1/4	S14	17	12	8.0	
BP-03	3/8	S17	17	12	10.5	
BP-04	1/2	S21	21	15	13	
BP-06	3/4	S27	22	15	19.5	
BP-08	1"	S34	25.5	17.5	26	

Hex Head Plug



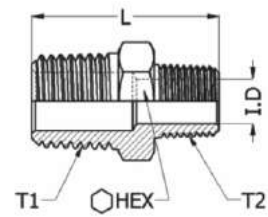
PIPE FITTINGS

PART#	Thread size	HEX	I.D	L	W.G
BCN-101	1/8×1/8	S10	6.0	23	
BCN-201	1/4×1/8	S14	5.5	26	
BCN-202	1/4×1/4	S14	8.0	29	
BCN-301	3/8×1/8	S17	5.5	26	
BCN-302	3/8×1/4	S17	8.0	29	
BCN-303	3/8×3/8	S17	11.0	29	
BCN-402	1/2×1/4	S21	8.0	32.5	
BCN-403	1/2×3/8	S21	11.0	32.5	
BCN-404	1/2×1/2	S21	14.0	35	
BCN-604	3/4×1/2	S27	14.0	36.5	
BCN-606	3/4×3/4	S27	19.0	37	
BCN-804	1"×1/2"	S34	14.0	40	
BCN-806	1"×3/4"	S34	19.0	40.5	
BCN-808	1"×1"	S34	19.0	43	

PART#	Thread size	C	L	W.G
BCF-101	1/8×1/8	S14	20	
BCF-202	1/4×1/4	S17	25	
BCF-303	3/8×3/8	S21	25	
BCF-404	1/2×1/2	S24	24	
BCF-606	3/4×3/4	S33	30	

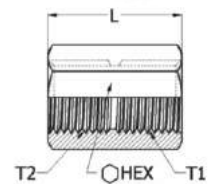
PART#	Thread size	HEX	L	W.G
BTF-01	1/8	12.5	13.5	
BTF-02	1/4	17	17	
BTF-03	3/8	20	18.5	
BTF-04	1/2	25	24.5	

Nipple Reducing Hex Nipple



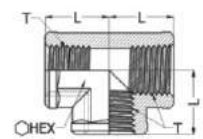
T1 HEX T2

Coupling



T2 HEX T1

Union Tee

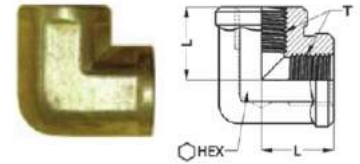


HEX T T1

PIPE FITTINGS

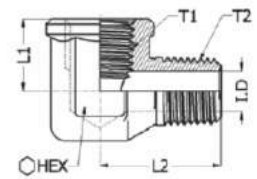
PART#	Thread size	HEX	L	W.G
BLF-01	1/8	12.5	14.5	
BLF-02	1/4	17	17	
BLF-03	3/8	20	20	
BLF-04	1/2	25	24.5	

Union Elbow



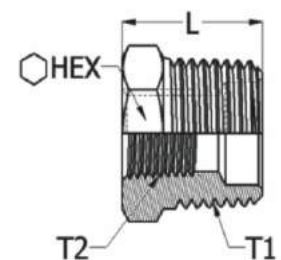
PART#	T1	T2	L1	L2	I.D	W.G
BLFM-101	1/8	1/8	15.5	19.5	5.5	
BLFM-102	1/8	1/4	13.5	23.5	8	
BLFM-201	1/4	1/8	14.5	21	5.5	
BLFM-202	1/4	1/4	14.5	24	8	
BLFM-203	1/4	3/8	15.5	27.5	11	
BLFM-301	3/8	1/8	15.5	24	5.5	
BLFM-302	3/8	1/4	15.5	27	8	
BLFM-303	3/8	3/8	15.5	27.5	11	
BLFM-304	3/8	1/2	16.5	33	14	
BLFM-403	1/2	3/8	18.5	28.5	11	
BLFM-404	1/2	1/2	18.5	33	14	

Street Elbow



PART#	Thread size	HEX	L	W.G
BBU-201	M1/4×F1/8	S14	14	
BBU-301	M3/8×F1/8	S17	17	
BBU-302	M3/8×F1/4	S17	17	
BBU-401	M1/2×F1/8	S21	21	
BBU-402	M1/2×F1/4	S21	21	
BBU-403	M1/2×F3/8	S21	21	
BBU-602	M3/4×F1/4	S27	22	
BBU-603	M3/4×F3/8	S27	22	
BBU-604	M3/4×F1/2	S27	22	
BBU-802	M1"×F1/4	S34	26	
BBU-803	M1"×F3/8	S34	26	
BBU-804	M1"×F1/2	S34	26	
BBU-806	M1"×F3/4	S34	26	

Bushing





Legines

SAE 45° Flare

SAE 45° Flare
 Resists Mechanical Pull-out
 Meets SAE Functional
 Requirements
 Resists Vibration
 UL listed



15

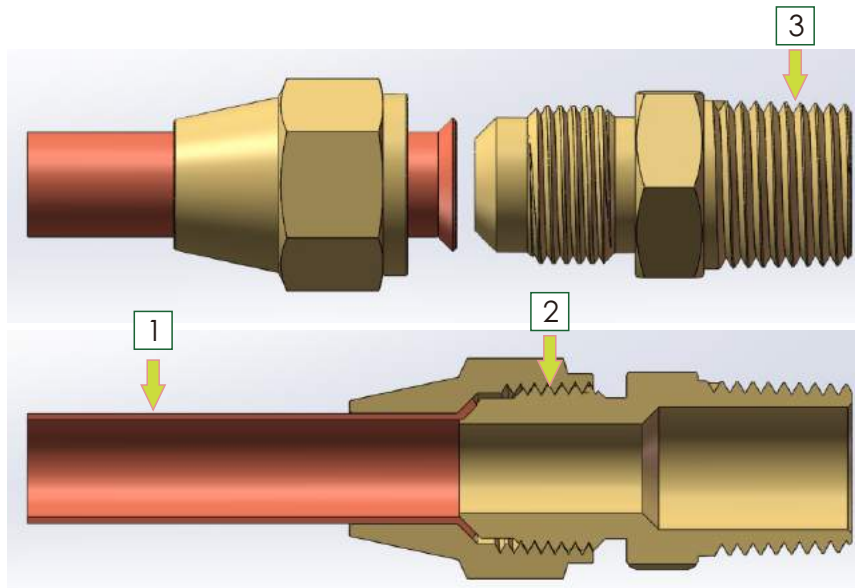


Fittings meet the requirements of the specific SAE standard called out in the product sections



European ROHS directives:2011/65/EC
 Relating to the limitation of the use of 6
 hazardous substances in electrical and
 electronic equipment (mercury,lead,cadmium,
 hexavalent chromium,PBB and PBDE)





1 Tube 2 Thread Size 3 pipe thread

Flare Flare O.D	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
Thread Size-B	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18	3/4-16	7/8-14	1-1/6-14

Typical Application:

LP and natural gas, flammable liquids (special order), instrumentation, refrigeration, power steering, hydraulic and pneumatic systems.

Pressure:

Working pressure up to 2000 psi depending on TUBE size. depending on size. Will withstand burst pressure of standard tubing - up to 5000 psi with Bundy-weld (double flared) and 3500 psi with copper tubing,

Vibration:

Good resistance - use long nut when greater vibration resistance is required.

Temperature Range:

-65° F to +250° F (-53° C to +121° C) range at maximum operating pressures.

Material:

CA 360 Brass for Barstock fittings., CA377 Brass for forged fittings

Used With:

Copper, brass, aluminum and steel hydraulic tubing that can be flared.

Advantages:

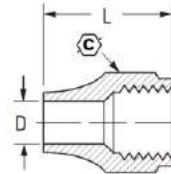
Low cost and reusability, long or short nut. Good resistance to vibration.



SAE 45° FLARE

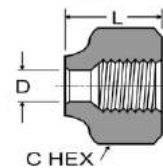
PART#	Flare O.D	C	D	L	W.G	Price
440-2	1/8	3/8	.133	.50		
440-3	3/16	7/16	.195	.62		
440-4	1/4	9/16	.258	.75		
440L-4	1/4	1/2	.258	.75		
440-5	5/16	5/8	.320	.88		
440-6	3/8	3/4	.383	1.00		
440L-6	3/8	3/4	.383	.88		
440-7	7/16	13/16	.445	1.06		
440-8	1/2	7/8	.508	1.12		
440L-8	1/2	7/8	.508	.93		
440-10	5/8	1-1/16	.633	1.31		
440-12	3/4	1-1/4	.758	1.50		

Short Rod Nut
(Ref.SAE.No.010110)



PART#	Flare O.D	C	D	L	W.G	Price
440S-4	1/4	5/8	.258	.60		
440S-5	5/16	11/16	.320	.66		
440S-6	3/8	13/16	.383	.70		
440S-8	1/2	15/16	.508	.82		
440S-10	5/8	1-1/16	.633	.95		
440S-12	3/4	1-5/16	.758	1.16		

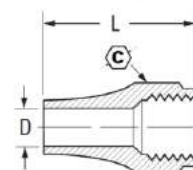
Short Froged Nut
(Ref.SAE.No.010110)



17

PART#	Flare O.D	C	D	L	W.G	Price
441-3	3/16	7/16	.195	.81		
441-4	1/4	9/16	.258	.94		
441-5	5/16	5/8	.320	1.12		
441-6	3/8	3/4	.383	1.31		
441-8	1/2	7/8	.508	1.62		
441-10	5/8	1-1/16	.633	1.88		

Long Rod Nut
(Ref.SAE.No.010111)



SAE 45° FLARE

PART#	Flare O.D	C	D	L	W.G	Price
441S-4	1/4	9/16	.258	.94		
441S-5	5/16	5/8	.320	1.12		
441S-6	3/8	3/4	.383	1.31		
441S-8	1/2	7/8	.508	1.62		
441S-10	5/8	1-1/16	.633	1.88		
*441S-12	3/4	1-1/4	.758	1.90		

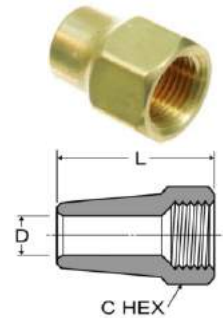
* Made to order

PART#	Flare O.D	C	W.G	Price
U44O-4	1/4	9/16		
U44O-5	5/16	5/8		
U44O-6	3/8	3/4		
U44O-8	1/2	7/8		
U44O-10	5/8	1-1/16		
U44O-12	3/4	1-1/4		

PART#	Flare O.D	C	L	W.G	Price
40-2	1/8	7/16	.40		
40-3	3/16	1/2	.47		
40-4	1/4	9/16	.53		
40-5	5/16	5/8	.62		
40-6	3/8	3/4	.69		
40-8	1/2	7/8	.84		
40-10	5/8	1-1/16	.97		
40-12	3/4	1-1/4	1.09		

PART#	Flare O.D	C	D1	L	W.G	Price
39-2	1/8	7/16	.079	.47		
39-3	3/16	1/2	.126	.58		
39-4	1/4	9/16	.189	.69		
39-5	5/16	5/8	.220	.78		
39-6	3/8	3/4	.282	.88		
39-8	1/2	7/8	.408	1.06		
39-10	5/8	1-1/16	.502	1.19		
39-12	3/4	1-1/4	.627	1.31		

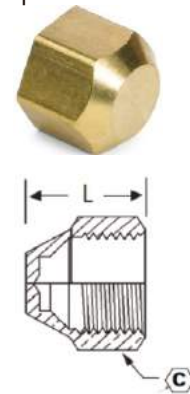
Long Forged Nut
(Ref.SAE.No.010167)



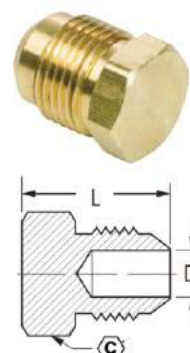
Swivel Nut Connector



Cap



Plug
(Ref.SAE.No.010109)



SAE 45° FLARE

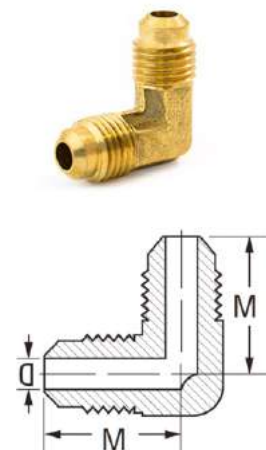
PART#	Flare O.D	C	D	L	W.G	Price
42-2	1/8	7/16	.079	.91		
42-3	3/16	1/2	.126	1.06		
42-4	1/4	9/16	.189	1.19		
42-5	5/16	5/8	.220	1.34		
42-6	3/8	3/4	.282	1.50		
42-8	1/2	7/8	.408	1.81		
42L-8	1/2	7/8	.408	1.67		
42-10	5/8	1-1/16	.502	2.12		
42L-10	5/8	1-1/16	.502	2.00		
42-12	3/4	1-5/16	.627	1.31		
42-5X4	5/16X1/4	5/8		1.28		
42-6X4	3/8X1/4	3/4		1.38		
42-6X5	3/8X5/16	3/4		1.44		
42-8X4	1/2X1/4	7/8		1.53		
42-8X6	1/2X3/8	7/8		1.69		
42-10X6	5/8X3/8	1-1/16		1.88		
42-10X8	5/8X1/2	1-1/16		1.87		

Union
(Ref.SAE.No.010101)



PART#	Flare O.D	C	D	M	W.G	Price
55-2	1/8	3/8	.079	.64		
55-3	3/16	3/8	.126	.73		
55-4	1/4	3/8	.189	.81		
55-5	5/16	7/16	.220	.92		
55-6	3/8	7/16	.282	1.04		
55-8	1/2	9/16	.408	1.31		
55-10	5/8	11/16	.502	1.39		
5512	3/4	7/8	.627	1.53		
55-6X4	3/8X1/4	7/16				
55-8X6	1/2X3/8	7/16				
55-10X8	5/8X1/2	11/16				

Forged 90° Flare Elbow
(Ref.SAE.No.010201)

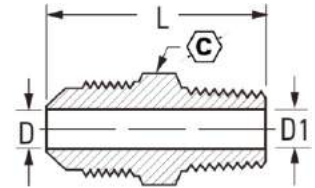


*DIMENSION DATA CAN CHANGE WITHOUT NOTICE

SAE 45° FLARE

PART#	Flare O.D × Thread	C	D	D1	L	W.G	Price
48-2A	1/8×1/8	7/16	.079	.219	.92		
48-3A	3/16×1/8	7/16	.126	.219	1.00		
48-4A	1/4×1/8	7/16	.189	.219	1.06		
48-4B	1/4×1/4	9/16	.189	.312	1.25		
48L-4B	1/4×1/4	9/16	.189	.330	1.15		
48-4C	1/4×3/8	11/16	.189	.438	1.31		
48L-4C	1/4×3/8	11/16	.189	.438	1.21		
48-4D	1/4×1/2	7/8	.189	.562	1.44		
48L-4D	1/4×1/2	7/8	.189	.562	1.37		
48-5A	5/16×1/8	1/2	.219	.219	1.16		
48-5B	5/16×1/4	9/16	.219	.312	1.34		
48L-5B	5/16×1/4	9/16	.219	.330	1.22		
48-5C	5/16×3/8	9/16	.219	.438	1.36		
48-6A	3/8×1/8	5/8	.282	.219	1.25		
48-6B	3/8×1/4	5/8	.282	.312	1.44		
48L-6B	3/8×1/4	5/8	.282	.330	1.31		
48-6C	3/8×3/8	11/16	.282	.438	1.44		
48L-6C	3/8×3/8	11/16	.282	.438	1.32		
48-6D	3/8×1/2	7/8	.282	.562	1.62		
48L-6D	3/8×1/2	7/8	.282	.562	1.44		
48-6E	3/8×3/4	1-1/8	.282	.750	1.59		
48-8B	1/2×1/4	3/4	.408	.312	1.60		
48-8C	1/2×3/8	3/4	.408	.438	1.62		
48L-8C	1/2×3/8	3/4	.408	.438	1.46		
48-8D	1/2×1/2	7/8	.408	.562	1.79		
48L-8D	1/2×1/2	7/8	.408	.562	1.56		
48-8E	1/2×3/4	1-1/16	.408	.750	1.75		
48L-8E	1/2×3/4	1-1/16	.408	.750	1.68		
48-10B	5/8×1/4	7/8	.500	.312	1.81		
48-10C	5/8×3/8	7/8	.500	.438	1.81		
48L-10C	5/8×3/8	7/8	.500	.438	1.67		
48-10D	5/8×1/2	7/8	.500	.562	2.00		
48L-10D	5/8×1/2	7/8	.500	.562	1.75		
48-10E	5/8×3/4	1-1/16	.500	.750	1.85		
48-12D	3/4×1/2	1-1/16	.625	.562	2.00		
48-12E	3/4×3/4	1-1/16	.625	.750	2.06		

MALE ADAPTER
(Ref.SAE.No.010102)



"L" means light pattern.

These fittings are completely interchangeable with full pattern fittings, but have been modified in some way.

This modification is usually in the length of the pipe threads.

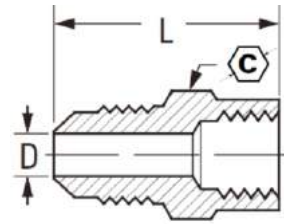
Used in plumbing and light industrial applications

*DIMENSION DATA CAN CHANGE WITHOUT NOTICE

SAE 45° FLARE

PART#	Flare O.D x Thread	C	D	L	W.G	Price
46-2A	1/8x1/8	9/16	0.09	.91		
46-3A	3/16x1/8	9/16	.126	.97		
46-4A	1/4x1/8	9/16	.189	1.03		
46-4B	1/4x1/4	11/16	.189	1.23		
46L-4B	1/4x1/4	11/16	.189	1.06		
46-4C	1/4x3/8	13/16	.189	1.18		
46-4D	1/4x1/2	15/16	.189	1.31		
46-5A	5/16x1/8	5/8	.219	1.06		
46-5B	5/16x1/4	11/16	.219	1.28		
46-5C	5/16x3/8	13/16	.219	1.69		
46-6A	3/8x1/8	5/8	.282	1.09		
46-6B	3/8x1/4	11/16	.282	1.31		
46L-6B	3/8x1/4	11/16	.282	1.25		
46-6C	3/8x3/8	13/16	.282	1.25		
46-6D	3/8x1/2	1"	.282	1.60		
46L-6D	3/8x1/2	15/16	.282	1.31		
46-6E	3/8x3/4	1-1/16	.282	1.41		
46-8B	1/2x1/4	3/4	.408	1.37		
46-8C	1/2x3/8	13/16	.408	1.50		
46L-8C	1/2x3/8	13/16	.408	1.38		
46-8D	1/2x1/2	1"	.408	1.75		
46L-8D	1/2x1/2	7/8	.408	1.42		
46-8E	1/2x3/4	1-3/16	.408	1.60		
46-10C	5/8x3/8	7/8	.500	1.24		
46-10D	5/8x1/2	1"	.500	1.62		
46-12D	3/4x1/2	1-3/16	.625	1.74		
46-12E	3/4x3/4	1-3/16	.625	1.75		

Female Connector
(Ref.SAE No.010103)



"L" means light pattern.

These fittings are completely

interchangeable with full

pattern fittings, but have been

modified in some way.

This modification is usually in

the length of the pipe threads,

Used in plumbing and light

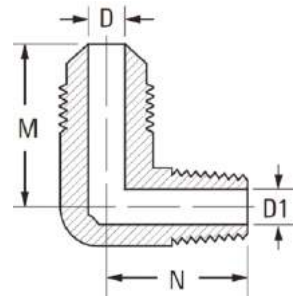
industrial applications

***DIMENSION DATA CAN CHANGE WITHOUT NOTICE**

SAE 45° FLARE

PART#	Flare O.D x Thread	D1	D	M	N	W.G	Price
49-2A	18x1/8	.219	.126	.63	.73		
49-3A	3/16x1/8	.219	.126	.75	.75		
49-4A	1/4x1/8	.219	.189	.82	.76		
49-4B	1/4x1/4	.312	.189	.82	.87		
49-4C	1/4x3/8	.438	.189	.92	.98		
49-4D	1/4x1/2	.562	.189	1.02	1.09		
49-5A	5/16x1/8	.219	.219	.95	.78		
49-5B	5/16x1/4	.312	.219	.95	.88		
49-5C	5/16x3/8	.438	.219	.98	1.01		
49-6A	3/8x1/8	.219	.282	1.05	.88		
49-6B	3/8x1/4	.438	.282	1.05	.91		
49-6C	3/8x3/8	.438	.282	1.05	1.06		
49-6D	3/8x1/2	.562	.282	1.10	1.09		
49-6E	3/8x3/4	.750	.282	1.26	1.32		
49-8B	1/2x1/4	.312	.408	1.17	1.00		
49-8C	1/2x3/8	.438	.408	1.17	1.00		
49-8D	1/2x1/2	.562	.408	1.16	1.13		
49-8E	1/2x3/4	.750	.408	1.35	1.32		
49-10B	5/8x1/4	.312	.500	1.34	1.22		
49-10C	5/8x3/8	.438	.500	1.34	1.16		
49-10D	5/8x1/2	.562	.500	1.35	1.22		
49-10E	5/8x3/4	.750	.500	1.44	1.38		
49-12D	3/4x1/2	.562	.625	1.66	1.48		
49-12E	3/4x3/4	.750	.625	1.66	1.50		

Forged 90° Male Elbow
(Ref.SAENo.010202)



*DIMENSION DATA CAN CHANGE WITHOUT NOTICE

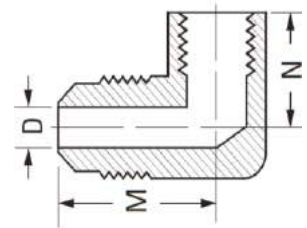
SAE 45° FLARE

PART#	Flare O.D×Thread	D	M	N	W.G	Price
50-3A	3/16×1/8	.126	.81	.48		
50-4A	1/4×1/8	.189	.90	.48		
50-4B	1/4×1/4	.189	.97	.65		
50-4C	1/4×3/8	.189	1.03	.60		
50-4D	1/4×1/2	.189	1.08	.66		
50-5A	5/16×1/8	.219	.94	.88		
50-5B	5/16×1/4	.219	1.03	.60		
50-5C	5/16×3/8	.219	1.05	.60		
50-6A	3/8×1/8	.282	1.00	.88		
50-6B	3/8×1/4	.282	1.06	.60		
50-6C	3/8×3/8	.282	1.06	.60		
50-6D	3/8×1/2	.282	1.23	.78		
50-8B	1/2×1/4	.408	1.25	.70		
50-8C	1/2×3/8	.408	1.25	.70		
50-8D	1/2×1/2	.408	1.36	.80		
50-8E	1/2×3/4	.408	1.51	.92		
50-10D	5/8×1/2	.500	1.42	.82		
50-10E	5/8×3/4	.500	1.64	.95		

*DIMENSION DATA CAN CHANGE WITHOUT NOTICE

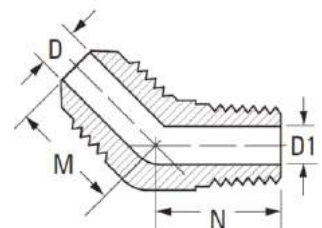
PART#	Flare O.D×Thread	D	D1	M	N	W.G	Price
54-4A	1/4×1/8	.189	.219	.67	.64		
54-4B	1/4×1/4	.189	.312	.75	.86		
54-5A	5/16×1/8	.219	.219	.78	.64		
54-5B	5/16×1/4	.219	.312	.81	.86		
54-6B	3/8×1/4	.282	.312	.91	.86		
54-6C	3/8×3/8	.282	.438	.93	.94		
54-6D	3/8×1/2	.282	.562	.99	1.17		
54-8C	1/2×3/8	.408	.438	1.07	.88		
54-8D	1/2×1/2	.408	.562	1.12	1.17		
54-10C	5/8×3/8	.500	.438	1.13	.95		
54-10D	5/8×1/2	.500	.562	1.13	1.17		
54-12D	3/4×1/2	.625	.750	1.28	1.17		
54-12E	3/4×3/4	.625	.750	1.41	1.20		

Forged 90° Female Elbow
(Ref.SAE No.010203)



23

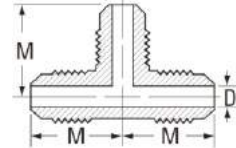
Forged 45° Male Elbow
(Ref.SAE No.010302)



SAE 45° FLARE

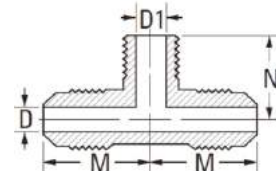
PART#	Flare O.D	D	M	W.G	Price
44-2	1/8	.079	.67		
44-3	3/16	.126	.75		
44-4	1/4	.189	.78		
44-5	5/16	.219	.91		
44-6	3/8	.282	1.00		
44-8	1/2	.408	1.16		
44-10	5/8	.500	1.41		
44-12	3/4	.625	1.64		

Forged Union Tee
(Ref.SAE No.010401)



PART#	Flare O.D × Thread	D	M	N	W.G	Price
45-3A	3/16 × 1/8	.126	.75	.75		
45-4A	1/4 × 1/8	.189	.78	.78		
45-4B	1/4 × 1/4	.189	.88	.88		
45-5A	5/16 × 1/8	.219	.88	.80		
45-5B	5/16 × 1/4	.219	1.00	.94		
45-6B	3/8 × 1/4	.282	1.00	.94		
45-6C	3/8 × 3/8	.282	1.00	1.00		
45-6D	3/8 × 1/2	.282	1.12	1.12		
45-8C	1/2 × 3/8	.408	1.16	1.09		
45-8D	1/2 × 1/2	.408	1.22	1.22		
45-10D	5/8 × 1/2	.500	1.41	1.31		
45-12D	3/4 × 1/2	.625	1.63	1.59		
45-12E	3/4 × 3/4	.625	1.63	1.44		

Forged Male Branch Tee
(Ref.SAE No.010425)



24

PART#	Flare O.D	A	W.G	Price
2GF-3	3/16	.32		
2GF-4	1/4	.36		
2GF-5	5/16	.43		
2GF-6	3/8	.56		
2GF-8	1/2	.67		
2GF-10	5/8	.78		
2GF-12	3/4	.97		

Copper Flare Gasket

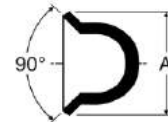
(Ref.SAE No.010113)



SAE 45° FLARE

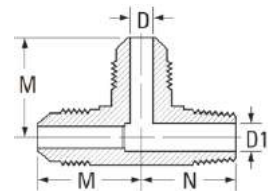
PART#	Flare O.D	A	W.G	Price
3GF-3	3/16	.32		
3GF-4	1/4	.36		
3GF-5	5/16	.43		
3GF-6	3/8	.56		
3GF-8	1/2	.67		
3GF-10	5/8	.78		
3GF-12	3/4	.97		

Seal Bonnet
(Ref.SAE No.010114)



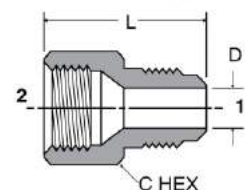
PART#	Flare O.D x NPTF	D	M	N	W.G	Price
51-3A	3/16 x 1/8	.126	.75	.75		
51-4A	1/4 x 1/8	.189	.78	.75		
51-4B	1/4 x 1/4	.189	.88	.88		
51-5A	5/16 x 1/8	.219	.88	.80		
51-5B	5/16 x 1/4	.219	1.00	.94		
51-6B	3/8 x 1/4	.282	1.00	.94		
51-6C	3/8 x 3/8	.282	1.00	1.00		
51-6D	3/8 x 1/2	.282	1.12	1.22		
51-8C	1/2 x 3/8	.408	1.16	1.09		
51-8D	1/2 x 1/2	.408	1.22	1.22		
51-10D	5/8 x 1/2	.500	1.41	1.31		
51-12D	3/4 x 1/2	.625	1.63	1.59		
51-12E	3/4 x 3/4	.625	1.63	1.44		

Forged Male
Run Tee
(Ref.SAE No.010424)



PART#	Flare x 2 Flare	C	D	L	W.G	Price
446-4x6	1/4 x 3/8	13/16	.189	1.20		
446-4x8	1/4 x 1/2	15/16	.189	1.36		
446-6x4	3/8 x 1/4	5/8	.281	1.10		
446-6x8	3/8 x 1/2	15/16	.281	1.42		
446-8x6	1/2 x 3/8	13/16	.406	1.39		
446-8x10	1/2 x 5/8	1-1/16	.406	1.67		
446-10x8	5/8 x 1/2	15/16	.502	1.60		
446-10x12	5/8 x 3/4	1-5/16	.502	1.95		
446-12x10	3/4 x 5/8	1-5/16	.626	1.86		

Flare Reducing Union
(Ref.SAE No.010105)

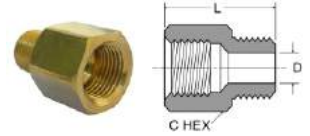


25

SAE 45° FLARE

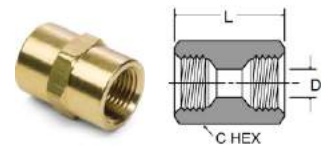
PART#	Flare O.D×Thread	C	D	L	W.G	Price
433-4A	1/4×1/8	5/8	.219	.91		
433-4B	1/4×1/4	5/8	.250	1.01		
433-6B	3/8×1/4	13/16	.344	1.28		
433-8C	1/2×3/8	13/16	.405	1.36		

Female Flare Adapter
(Ref.SAENo.010106)



PART#	Flare O.D	C	D	L	W.G	Price
432-4	1/4	5/8	.250	1.03		
432-6	3/8	13/16	.375	1.26		
432-8	1/2	15/16	.500	1.43		
432-10	5/8	1-1/16	.625	1.69		

Union Flare
(Ref.SAENo.010107)





Legines

HOSE BARB

Mini Hose Barb Fittings

- Use with Polyethylene Tubing
- Economical
- One-piece
- Compact
- Reusable



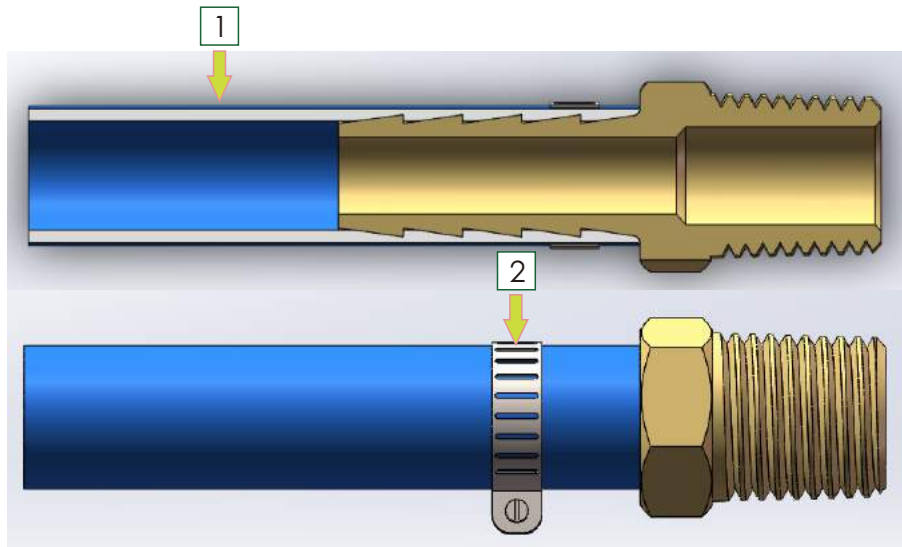
27



European ROHS directives:2011/65/EC
 Relating to the limitation of the use of 6
 hazardous substances in electrical and
 electronic equipment (mercury,lead,cadmium,
 hexavalent chromium,PBB and PBDE)



HOSE BARB



1 Tube

2 Hose Clamps

Typical Application:

Temperature control circuits, pneumatic circuits, vacuum and fluid systems test apparatus, lubricant, coolant lines,

Pressure:

Will withstand burst pressures of plastic tubing

Vibration:

Excellent resistance

Temperature Range:

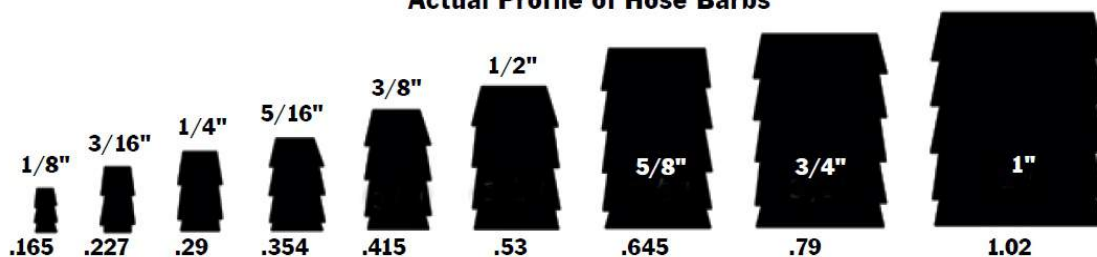
From -40° F to 160° F.

Material:

CA 360 Brass for Barstock fittings., CA377 Brass for forged fittings

28

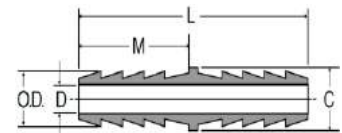
Actual Profile of Hose Barbs



HOSE BARB

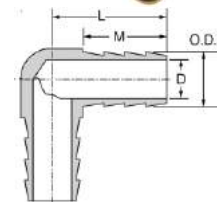
PART#	HOSE I.D	C	D	M	L	W.G	Price
121-2	1/8	5/16	.09	.45	.98		
121-3	3/16	5/16	.13	.77	1.62		
121-4	1/4	3/8	.195	.95	2.00		
121-5	5/16	7/16	.250	.95	2.00		
121-6	3/8	1/2	.280	.97	2.00		
121-8	1/2	5/8	.380	.96	2.00		
121-10	5/8	3/4	.530	.97	2.00		
121-12	3/4	7/8	.560	.97	2.00		

Hose Mnder/Splicer



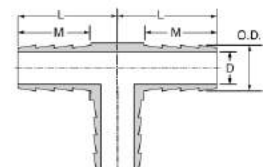
PART#	HOSE I.D	D	M	L	W.G	Price
122-3	3/16	.125	.63	1.00		
122-4	1/4	.187	.63	1.00		
122-5	5/16	.250	.63	1.00		
122-6	3/8	.281	.63	1.01		
122-8	1/2	.375	.65	1.02		
122-10	5/8	.530	.87	1.26		
122-12	3/4	.790	.87	1.45		

90° Hose Barb Elbow



PART#	HOSE I.D	D	M	L	W.G	Price
123-3	3/16	.125	.63	1.00		
123-4	1/4	.187	.63	1.00		
123-5	5/16	.250	.63	1.00		
123-6	3/8	.281	.63	1.01		
123-8	1/2	.375	.65	1.02		
123-10	5/8	.530	.87	1.26		
123-12	3/4	.790	.87	1.45		

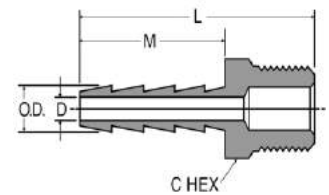
Hose Barb Tees



HOSE BARB

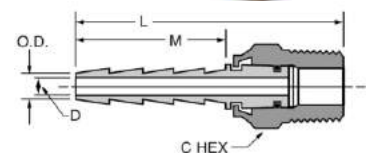
PART#	HOSE×NPTF	C	D	M	L	W.G	Price
125-2A	1/8×1/8	7/16	.093	.50	1.01		
125-2B	1/8×1/4	9/16	.093	.50	1.17		
125-3A	3/16×1/8	7/16	.125	.70	1.21		
125-3B	3/16×1/4	9/16	.125	.70	1.41		
125-4A	1/4×1/8	7/16	.187	.97	1.54		
125-4B	1/4×1/4	9/16	.187	.97	1.72		
125-4C	1/4×3/8	11/16	.187	.97	1.71		
125-4D	1/4×1/2	7/8	.187	.87	1.72		
125-5A	5/16×1/8	7/16	.250	.97	1.47		
125-5B	5/16×1/4	9/16	.250	.97	1.72		
125-4C	5/16×3/8	11/16	.250	.97	1.76		
125-4D	5/16×1/2	7/8	.250	.97	1.86		
125-6A	3/8×1/8	7/16	.281	.97	1.53		
125-6B	3/8×1/4	9/16	.281	.97	1.75		
125-6C	3/8×3/8	11/16	.281	.97	1.71		
125-6D	3/8×1/2	7/8	.281	.97	1.87		
125-8B	1/2×1/4	9/16	.375	.97	1.72		
125-8C	1/2×3/8	11/16	.375	.97	1.72		
125-8D	1/2×1/2	7/8	.375	.97	1.86		
125-8E	1/2×3/4	1-1/16	.375	.97	1.94		
125-10C	5/8×3/8	11/16	.468	.97	1.76		
125-10D	5/8×1/2	7/8	.468	.97	1.86		
125-10E	5/8×3/4	1-1/16	.468	.97	1.87		
125-12D	3/4×1/2	7/8	.562	.97	1.79		
125-12E	3/4×3/4	1-1/16	.562	.97	1.87		
125-16E	1"×3/4	1-1/16	.875	1.18	2.08		
125-16H	1"×1"	1-3/8	.875	1.18	2.34		

Male Adapter



PART#	HOSE×NPTF	C	D	M	L	W.G	Price
125S-4A	1/4×1/8	9/16	.281	.97	2.12		
125S-4B	1/4×1/4	9/16	.281	.97	2.12		
125S-6A	3/8×1/8	9/16	.375	.97	2.12		
125S-6B	3/8×1/4	9/16	.375	.97	2.12		
125S-6C	3/8×3/8	11/16	.375	.97	2.12		
125S-8C	1/2×3/8	11/16	.406	.97	2.14		
125S-8D	1/2×1/2	7/8	.406	.97	2.33		
125S-12E	3/4×3/4	1-1/16	.562	.97	2.33		

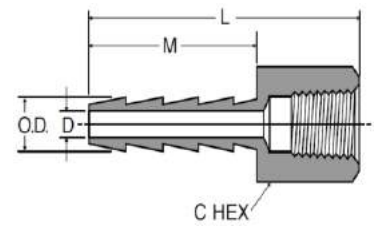
Swiver Male Adapter



HOSE BARB

PART#	HOSE×NPTF	C	D	M	L	W.G	Price
126-2A	1/8×1/8	1/2	.093	.46	.96		
126-4A	1/8×1/4	5/8	.093	.46	1.15		
126-3A	3/16×1/8	1/2	.125	.68	1.10		
126-3B	3/16×1/4	5/8	.125	.75	1.44		
126-4A	1/4×1/8	1/2	.187	.97	1.35		
126-4B	1/4×1/4	5/8	.187	.97	1.58		
126-4C	1/4×3/8	3/4	.187	.97	1.59		
126-4D	1/4×1/2	15/16	.187	.97	1.66		
126-5A	5/16×1/8	9/16	.250	.97	1.47		
126-5B	5/16×1/4	5/8	.250	.97	1.66		
126-4C	5/16×3/8	3/4	.250	.97	1.66		
126-6A	3/8×1/8	9/16	.281	.97	1.47		
126-6B	3/8×1/4	5/8	.281	.97	1.61		
126-6C	3/8×3/8	13/16	.281	.97	1.63		
126-6D	3/8×1/2	15/16	.281	.97	1.76		
126-8B	1/2×1/4	5/8	.375	.97	1.66		
126-8C	1/2×3/8	13/16	.375	.97	1.66		
126-8D	1/2×1/2	1"	.375	.97	1.76		

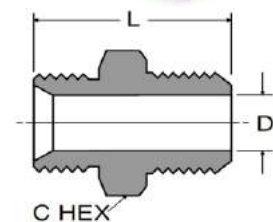
Female Adapter



PART#	NPSM×NPTF	C	D	L	W.G	Price
127-4A	1/4×1/8	9/16	.219	.91		
127-4B	1/4×1/4	9/16	.281	1.02		
127-6B	3/8×1/4	11/16	.312	1.02		
127-6C	3/8×3/8	11/16	.406	1.09		
127-8C	1/2×3/8	7/8	.406	1.19		
127-8D	1/2×1/2	7/8	.531	1.39		

(For use with 128SV)

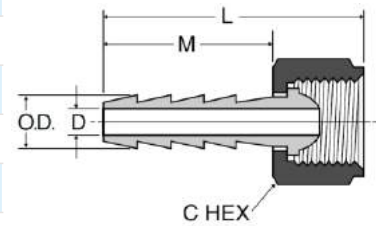
Ball-end joint Adapter To Male Pipe



HOSE BARB

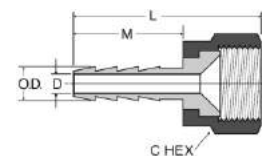
PART#	HOSE×NPSM	C	D	M	L	W.G	Price
128SV-3A	3/16×1/8	1/2	.187	.75	1.18		
128SV-4A	1/4×1/8	1/2	.187	.97	1.40		
128SV-4B	1/4×1/4	5/8	.187	.97	1.50		
128SV-4C	1/4×3/8	3/4	.187	.97	1.58		
128SV-5B	5/16×1/4	5/8	.250	.97	1.50		
128SV-5C	5/16×3/8	3/4	.250	.97	1.58		
128SV-6B	3/8×1/4	5/8	.281	.97	1.63		
128SV-6C	3/8×3/8	3/4	.281	.97	1.50		
128SV-6D	3/8×1/2	15/16	.281	.97	1.65		
128SV-8C	1/2×3/8	3/4	.375	.97	1.55		
128SV-8D	1/2×1/2	15/16	.375	.97	1.65		

Hose Barb to Swivel Female Ball-End



PART#	HOSE×Flare	C	D	M	L	W.G	Price
*146SV-4-4	1/4×7/16-20	9/16	.187	.97	1.55		
*146SV-4-6	1/4×5/8-18	3/4	.187	.97	1.65		
*146SV-6-6	3/8×5/8-18	3/4	.281	.97	1.65		
*146SV-8-8	1/2×3/4-16	7/8	.375	.97	1.70		
**1146SV-4-4	1/4×7/16-20	9/16	.187	.97	1.55		
**1146SV-6-6	3/8×5/8-18	3/4	.281	.97	1.65		

Hose Barb to Swivel 45° Female Flare

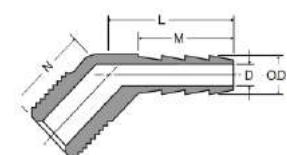


*Female 45° SAE Flare Swivel

**Female 37° JIC Flare Swivel

PART#	HOSE×Flare	D	N	M	L	W.G	Price
139-4A	1/4×1/8	.187	.55	.63	.91		
139-4B	1/4×1/4	.187	.62	.76	1.04		
139-5A	5/16×1/8	.250	.60	.83	.83		
139-6A	3/8×1/8	.281	.66	.63	.83		
139-6B	3/8×1/4	.281	.84	.63	.82		
139-6C	3/8×3/8	.281	.87	.63	.93		
139-8B	1/2×1/4	.375	.84	.63	1.00		
139-8C	1/2×3/8	.375	.87	.68	1.00		
139-8D	1/2×1/2	.375	.94	.68	1.15		

Hose Barb 45° Elbow

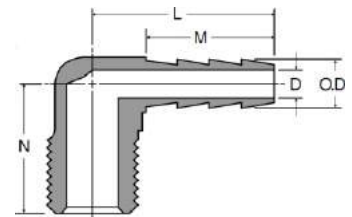


HOSE BARB

PART#	HOSE×NPTF	D	N	M	L	W.G	Price
129-3A	3/16×1/8	.125	.84	.84	1.18		
*129-4A	1/4×1/8	.187	.66	.76	1.04		
*129-4B	1/4×1/4	.187	.86	.76	1.10		
129-4C	1/4×3/8	.187	.97	.97	1.58		
129-5A	5/16×1/8	.250	.81	.76	1.01		
*129-5B	5/16×1/4	.250	.86	.76	1.04		
*129-5C	5/16×3/8	.250	.94	.97	1.58		
129-6A	3/8×1/8	.281	.81	.78	1.12		
*129-6B	3/8×1/4	.281	.84	.78	1.13		
*129-6C	3/8×3/8	.281	.95	.78	1.25		
*129-6D	3/8×1/2	.281	1.13	.78	1.35		
129-8B	1/2×1/4	.415	1.00	.78	1.17		
129-8C	1/2×3/8	.415	1.00	.78	1.17		
*129-8D	1/2×1/2	.415	1.13	.79	1.36		
129-10C	5/8×3/8	.530		.87	1.31		
129-10D	5/8×1/2	.530		.87	1.36		
129-12D	3/4×1/2	.790		.87	1.36		
129-12E	3/4×3/4	.790		.91	1.46		

* PTF Short Thread

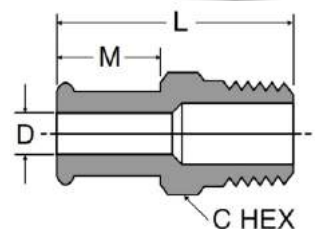
Forged Hose Barb 90° Elbow



33

PART#	HOSE×NPTF	C	D	M	L	W.G	Price
168-6C	3/8×3/8	11/16	.281	.78	1.53		
168-8B	1/2×1/4	5/8	.375	.78	1.56		
168-8C	1/2×3/8	11/16	.406	.78	1.53		
168-8D	1/2×1/2	7/8	.406	.79	1.73		
168-10C	5/8×3/8	3/4	.501	.88	1.62		
168-10D	5/8×1/2	7/8	.501	.88	1.92		
168-12D	3/4×1/2	7/8	.564	.88	1.98		
168-12E	3/4×3/4	1-1/16	.564	.97	2.04		
168-16E	1"×3/4	1-1/8	.750	1.00	2.12		
168-16H	1"×1"	1-3/8	.812	1.00	2.31		

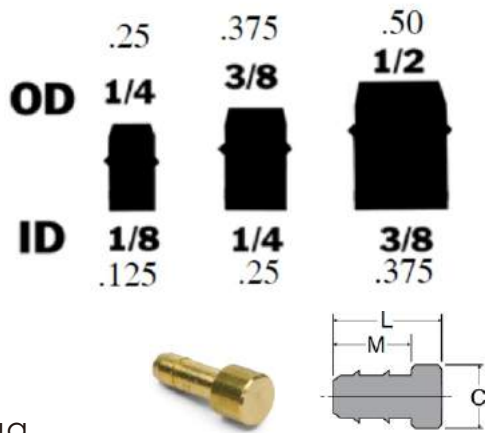
Beaded Hose Barb To Male Pipe



HOSE BARB

*Quick connecting fittings that do not require tube preparations handassembly.
Inexpensive with excellent resistance to vibration

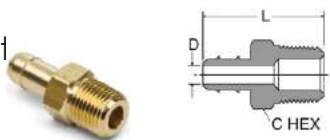
* All sizes are tube O.D. (HOSE)



Plug

PART#	TUBE I.D	C	L	M	W.G	Price
20-4	1/4	.290	.56	.41		
20-6	3/8	.390	.68	.44		
20-8	1/2	.577	.81	.56		

Male Adapt



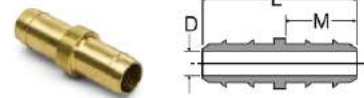
PART#	I.DxNPT	D	L	C	W.G	Price
28-5/32A	5/32x1/8	.062	.84	7/16		
28-4-1	1/4x1/16	.120	.93	3/8		
28-4A	1/4x1/8	.120	.97	7/16		
28-4B	1/4x1/4	.120	1.09	9/16		
28-6A	3/8x1/8	.187	1.00	7/16		
28-6B	3/8x1/4	.187	1.13	9/16		
28-8B	1/2x1/4	.312	1.25	9/16		
28-8C	1/2x3/8	.312	1.28	11/16		
28-8D	1/2x1/2	.312	1.44	7/8		

Female Adapter



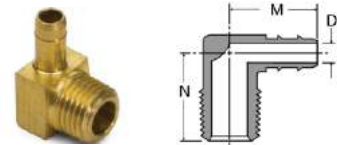
PART#	I.DxNPT	D	L	C	W.G	Price
26-4A	1/4x1/8	.120	.91	1/2		
26-4B	1/4x1/4	.120	.93	11/16		
26-6A	3/8x1/8	.187	.93	1/2		
26-6B	3/8x1/4	.187	1.06	11/16		

Union



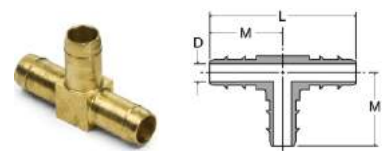
PART#	TUBE I.D	D	L	M	W.G	Price
22-5/32	5/32	.062	.59	.28		
22-4	1/4	.120	.84	.41		
22-6	3/8	.187	.94	.44		
22-8	1/2	.312	1.19	.56		
22-4-5/32	1/4x5/32	.062	.72			
22-4-6	1/4x3/8	.120	.88			
22-4-8	1/4x1/2	.120	1.06			
22-6-8	3/8x1/2	.187	1.06			

Male Elbow



PART#	I.DxNPT	D	M	N	W.G	Price
29-5/32A	5/32x1/8	.062	.56	.63		
29-4-1	1/4x1/16	.120	.62	.60		
29-4A	1/4x1/8	.120	.69	.63		
29-4B	1/4x1/4	.120	.72	.72		
29-6A	3/8x1/8	.187	.69	.69		
29-6B	3/8x1/4	.187	.75	.75		
28-8B	1/2x1/4	.312	.94	.74		
28-8C	1/2x3/8	.312	.94	.81		

Union Tee



PART#	TUBE I.D	D	M	W.G	Price
24-5/32	5/32	.062	.50		
24-4-4	1/4	.290	.63		
24-6-6	3/8	.390	.63		
24-8-8	1/2	.577	.81		

Union Elbow



PART#	TUBE I.D	D	M	W.G	Price
25-5/32	5/32	.062	.50		
25-4-4	1/4	.290	.63		
25-6-6	3/8	.390	.63		
25-8-8	1/2	.577	.81		



Legines

PUSH-ON

PUSH-ON FITTINGS

Braided Hose
Use with Hose Clamp
Reusable



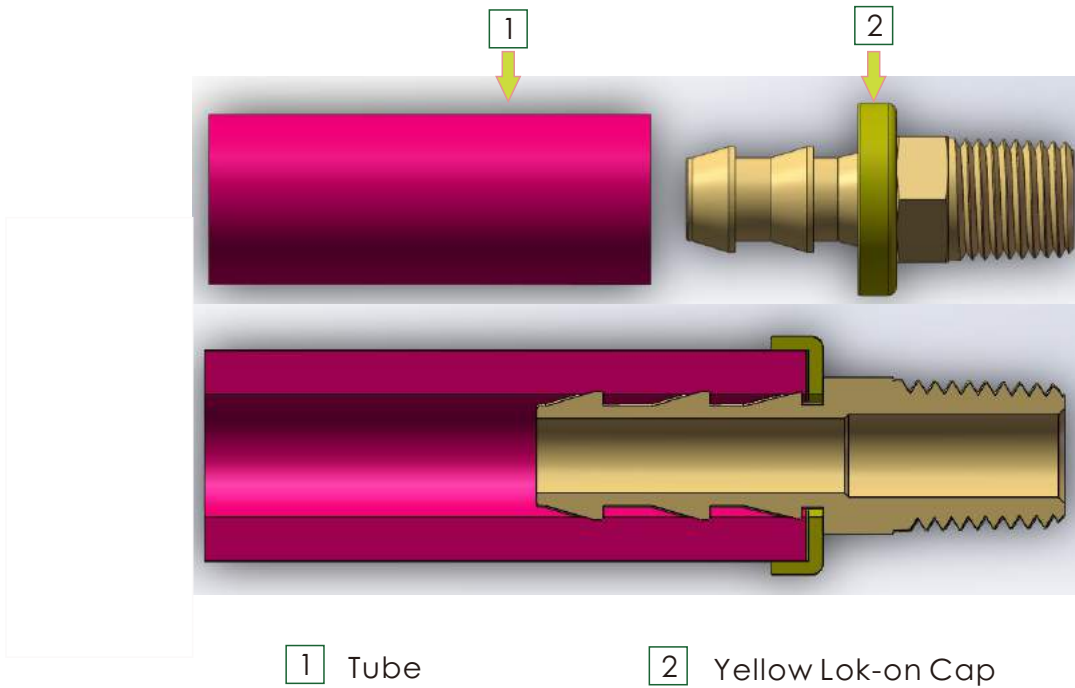
Fittings meet the requirements of the specific SAE standard called out in the product sections



European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)



35



Advantages

Push-on hose fittings are machined from the highest quality brass or stainless steel, ensuring a tight connection. The barbs are specifically engineered to work in conjunction with I.D and braid angle of Push-on Hose.

Typical Application:

Low pressure Air, Fuel, Lube, and Oil Lines

Pressure:

150Psi

Vibration:

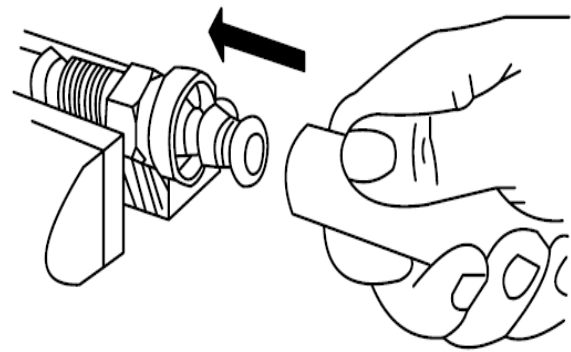
Excellent resistance

Temperature Range:

-40° F to 180° F. (-40° C to 82° C)

Material:

CA 360 Brass for Barstock fittings., CA377 Brass for forged fittings



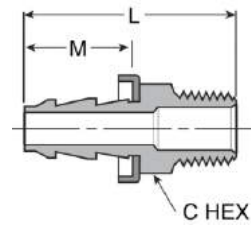
Actual Profile of push on Barbs



PUSH ON

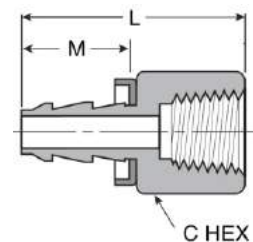
PART#	I.D×NPTF	C	M	L	W.G	Price
272-4A	1/4×1/8	7/16	.82	1.42		
272-4B	1/4×1/4	9/16	.82	1.66		
272-4C	1/4×3/8	11/16	.82	1.66		
272-5A	5/16×1/8	7/16	.77	1.43		
272-5B	5/16×1/4	9/16	.87	1.66		
272-6A	3/8×1/8	7/16	.97	1.56		
272-6B	3/8×1/4	9/16	.97	1.76		
272-6C	3/8×3/8	11/16	.97	1.76		
272-6D	3/8×1/2	7/8	.97	1.97		
272-8B	1/2×1/4	9/16	.97	1.76		
272-8C	1/2×3/8	11/16	.97	1.76		
272-8D	1/2×1/2	7/8	.97	1.97		
272-8E	1/2×3/4	1-1/16	.97	2.41		
272-10C	5/8×3/8	11/16	1.50	2.34		
272-10D	5/8×1/2	7/8	1.50	2.45		
272-12D	3/4×1/2	7/8	1.50	2.47		
272-12E	3/4×3/4	1-1/16	1.50	2.45		

Push-on Hose Barb to Male Pipe



PART#	I.D×NPTF	C	M	L	W.G	Price
274-4A	1/4×1/8	1/2	.82	1.35		
274-4B	1/4×1/4	5/8	.82	1.51		
274-4C	1/4×3/8	3/4	.82	1.51		
274-5A	5/16×1/8	1/2	.82	1.32		
274-5B	5/16×1/4	5/8	.87	1.51		
274-6A	3/8×1/8	7/16	.92	1.47		
274-6B	3/8×1/4	5/8	.97	1.61		
274-6C	3/8×3/8	3/4	.97	1.63		
274-6D	3/8×1/2	15/16	.97	1.66		
274-8B	1/2×1/4	9/16	.97	1.76		
274-8C	1/2×3/8	3/4	.97	1.63		
274-8D	1/2×1/2	15/16	.97	1.76		
274-8E	1/2×3/4	1-3/16	1.02	2.07		
274-10C	5/8×3/8	3/4	1.50	2.24		
274-10D	5/8×1/2	15/16	1.50	2.24		
274-12D	3/4×1/2	15/16	1.50	2.24		
274-12E	3/4×3/4	1-3/16	1.50	2.55		

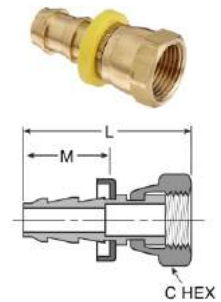
Hose Barb to Female Pipe



PUSH ON

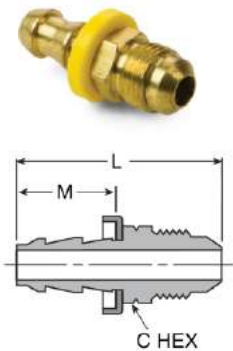
PART#	I.D×NPSM	C	M	L	W.G	Price
280-4B	1/4×1/4	11/16	.75	1.55		
280-6B	3/8×1/4	11/16	.90	1.70		
280-6C	3/8×3/8	7/8	.90	1.75		
280-8D	1/2×1/2	1"	1.05	2.07		
280-10D	5/8×1/2	1"	1.45	2.47		
280-12E	3/4×3/4	1"-1/4	1.45	2.54		

Female Pipe (NPSM)



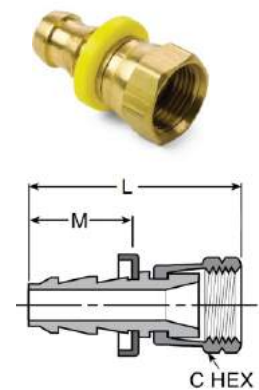
PART#	I.D×FLARE	C	M	L	W.G	Price
282-4-4	1/4×7/16-20	7/16	.82	1.45		
282-4-5	1/4×1/2-20	1/2	.82	1.59		
282-5-4	5/16×1/2-20	1/2	.87	1.60		
282-5-5	5/16×1/2-20	1/2	.87	1.60		
282-6-4	3/8×7/16-20	1/2	.87	1.64		
282-6-6	3/8×5/8-18	5/8	.96	1.83		
282-8-8	1/2×3/4-16	3/4	1.02	2.04		
282-10-10	5/8×7/8-14	7/8	1.50	2.73		
282-12-12	3/4×1"-1/16-14	1"-1/16	1.50	2.79		

Hose Barb to Male SAE 45°



PART#	I.D×FLARE	C	M	L	W.G	Price
284-4-4	1/4×1/4	7/16	.82	1.45		
284-4-5	1/4×5/16	5/8	.82	1.59		
284-4-6	1/4×3/8	3/4	.82	1.60		
284-5-5	5/16×5/16	5/8	.87	1.60		
284-5-6	5/16×3/8	3/4	.87	1.60		
284-6-6	3/8×3/8	3/4	.97	1.75		
284-6-8	3/8×1/2	7/8	.97	1.85		
284-8-6	1/2×3/8	3/4	.97	1.85		
284-8-8	1/2×1/2	7/8	.97	1.77		
284-10-10	5/8×5/8	1"	1.50	2.35		
284-12-12	3/4×3/4	1"-1/4	1.50	2.42		

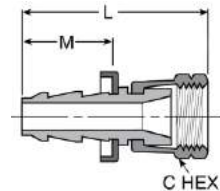
Female SAE 45° Swivel



PUSH ON

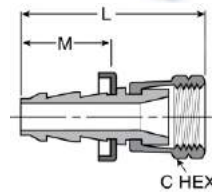
PART#	I.D×FLARE	C	M	L	W.G	Price
288-4-4	1/4×7/16-20	7/16	.82	1.45		
288-4-6	1/4×9/16-18	9/16	.82	1.60		
288-5-6	5/16×9/16-18	3/4	.87	1.60		
288-6-6	3/8×9/16-18	3/4	.97	1.75		
288-8-8	1/2×3/4-16	7/8	.97	1.77		
288-10-10	5/8×7/8-14	1"	1.50	2.35		
288-12-12	3/4×1"1/16-14	1"-1/4	1.50	2.40		

Female JIC 37° Swivel



PART#	I.D×FLARE	C	M	L	W.G	Price
287-4-4	1/4×7/16-20	7/16	.82	1.45		
287-4-5	1/4×1/2-20	5/8	.82	1.59		
287-5-6	3/8×1/2-20	5/8	.92	1.75		
287-6-8	3/8×3/4-16	7/8	.92	1.82		
287-8-8	1/2×3/4-16	7/8	.97	1.78		
287-8-10	1/2×7/8-14	7/8	1.02	1.97		
287-10-10	5/8×7/8-14	1"	1.50	2.47		

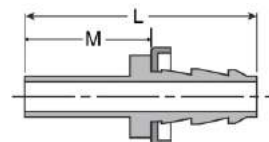
SAE/JIC 45° /37° Female Swivel



39

PART#	I.D×O.D	M	L	W.G	Price
294-4-3	1/4×3/16	.86	1.68		
294-4-4	1/4×1/4	1.06	1.88		
294-4-5	1/4×5/16	1.06	1.88		
294-5-5	5/16×5/16	1.06	1.91		
294-6-6	3/8×3/8	1.06	2.03		
294-8-8	1/2×1/2	1.06	2.13		
294-10-10	1/2×5/8	1.06	2.61		
294-12-12	3/4×3/4	1.06	2.61		

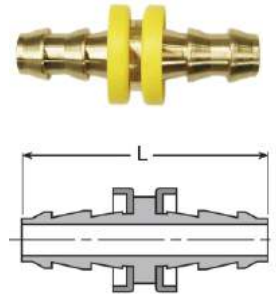
Rigid Tube Adapter



PUSH ON

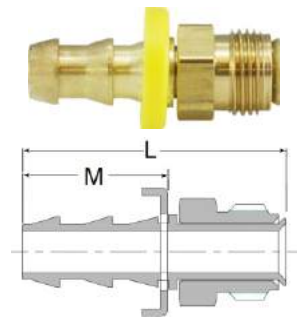
PART#	HOSE I.D	L	W.G	Price
296-4	1/4	1.87		
296-5	5/16	1.80		
296-6	3/8	2.00		
296-8	1/2	2.01		
296-10	5/8	3.03		
296-12	3/4	3.03		
296-16	1"	3.21		

Push-on Union



PART#	HOSE I.D	Thread	L	M	W.G	Price
290-4-3	1/4	3/8-24	1.52	.77		
290-4-4	1/4	7/16-24	1.52	.77		
290-4-5	1/4	1/2-20	1.58	.77		
290-5-5	5/16	1/2-20	1.58	.77		
290-5-6	5/16	5/8-18	1.63	.77		
290-6-5	3/8	1/2-20	1.73	.92		
290-6-6	3/8	5/8-18	1.78	.92		
290-8-8	1/2	3/4-18	1.96	1.02		
290-10-10	5/8	7/8-18	2.50	1.50		

Inverted Flare Male Swivel

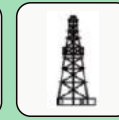


PART#	I.D×NPTF	M	L	W.G	Price
273-4A	1/4×1/8	.75	.98		
273-4B	1/4×1/4	.82	1.04		
273-5A	5/15×1/8	.85	1.02		
273-5B	5/16×1/4	.94	1.09		
273-6A	3/8×1/8	.75	1.11		
273-6B	3/8×1/4	.90	1.13		
273-6C	3/8×3/8	.92	1.21		
273-6D	3/8×1/2	1.19	1.30		
273-8C	1/2×3/8	1.02	1.54		
273-8D	1/2×1/2	1.02	1.50		
273-10D	5/8×1/2	1.19	1.98		
273-10E	5/8×3/4	1.28	2.07		
273-12E	3/4×3/4	1.28	2.15		

Male Elbow



40



Legines

COMPRESSION

Compression

Copper

Brass

Aluminum

Thermoplastic tubing



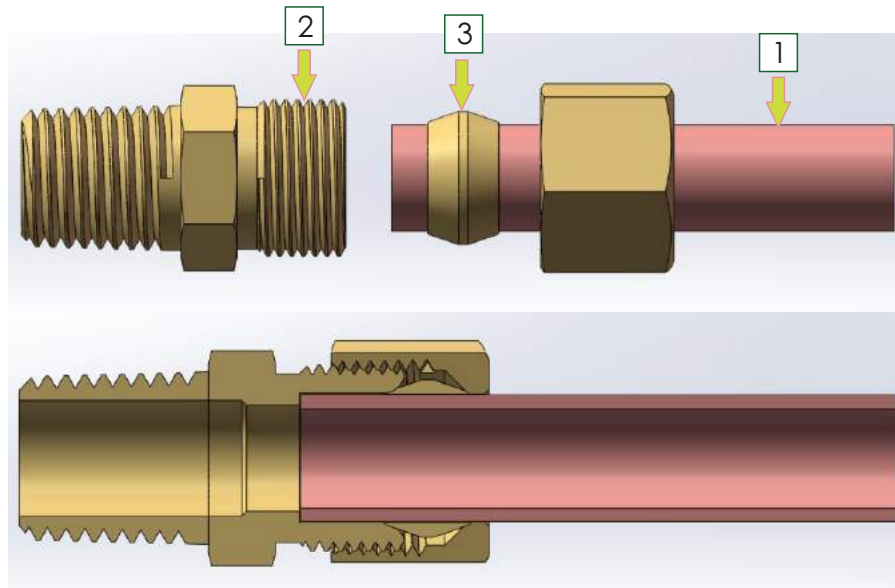
Fittings meet the requirements of the specific SAE standard called out in the product sections



European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6 hazardous substances in electrical and electronic equipment (mercury,lead,cadmium, hexavalent chromium,PBB and PBDE)



41



1 Tube 2 Thread size-B 3 sleeve

TUBE O.D	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
Thread size-B	5/16-24	3/8-24	7/16-24	1/2-24	9/16-24	11/16-20	13/16-18	1"-18

Typical Application:

Instrumentation, hydraulic and pneumatic systems.

Pressure:

Working pressure up to 2000 psi with a 4:1 safety factor depending on TUBE size.

When using plastic tubing, use the working pressure for type used.

Vibration:

Fair resistance - use long nut when greater vibration resistance is needed.

Temperature Range:

65° F to +250° F (-53° C to +121° C) with metal tubing. When using compatible plastic tubing do not exceed the tubing temperature range. (Refer to tubing temperature range.)

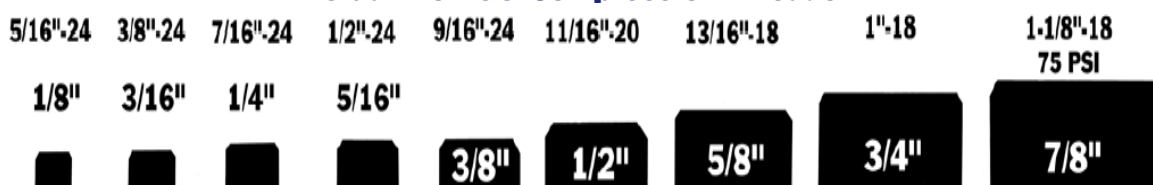
Material:

CA 360 Brass for Barstock fittings.,CA377 Brass for forged fittings

Used With:

Aluminum, copper and plastic tubing

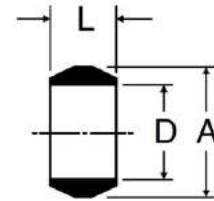
Actual Profile of Compression Threads



PART #	TUBE SIZE	A	D	L	W.G	Price
60-2	1/8	.187	.130	.19		
60-3	3/16	.266	.192	.22		
60-4	1/4	.344	.255	.25		
60-5	5/16	.406	.318	.25		
60-6	3/8	.469	.382	.25		
60-7	7/16	.531	.444	.31		
60-8	1/2	.594	.507	.38		
60-10	5/8	.719	.632	.38		
60-12	3/4	.875	.758	.44		

Sleeve

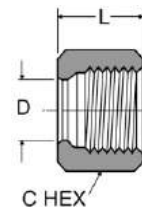
(Ref.SAE No.060115)



PART#	TUBE SIZE	C	D	L	W.G	Price
61-2	1/8	3/8	.130	.38		
61-3	3/16	7/16	.192	.41		
61-4	1/4	1/2	.255	.44		
61-5	5/16	9/16	.318	.44		
61-6	3/8	5/8	.382	.47		
61-7	7/16	11/16	.444	.50		
61-8	1/2	13/16	.507	.62		
61-10	5/8	15/16	.632	.62		
61-12	3/4	1-3/16	.758	.69		

Nut

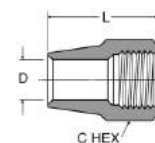
(Ref.SAE No.060110)



PART#	TUBE SIZE	C	D	L	W.G	Price
1611-3	3/16	7/16	.192	.62		
1611-4	1/4	1/2	.255	.75		
1611-5	5/16	9/16	.318	.84		
1611-6	3/8	5/8	.382	.88		
1611-8	1/2	13/16	.507	1.06		
1611-10	5/8	15/16	.632	1.08		
1611-12	3/4	1-3/16	.758	1.38		

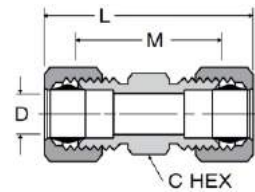
Long Nut

(Ref.SAE No.060111)



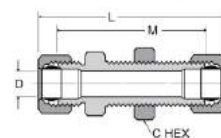
PART#	TUBE SIZE	C	M	D	W.G	Price
62-2	1/8	5/16	.64	.94		
62-3	3/16	3/8	.72	.125		
62-4	1/4	7/16	.79	.188		
62-5	5/16	1/2	.85	.250		
62-6	3/8	9/16	.97	.312		
62-7	7/16	5/8	1.02	.312		
62-8	1/2	11/16	1.08	.406		
62-10	5/8	13/16	1.23	.500		
62-12	3/4	1"	1.41	.562		
62-4-3	1/4×3/16	7/16	.78	.125		
62-5-4	5/16×1/4	1/2	.81	.188		
62-6-4	3/8×1/4	9/16	.90	.125		
62-6-5	3/8×5/16	9/16	.94	.188		
62-8-6	1/2×3/8	11/16	1.03	.312		
62-10-6	5/8×3/8	13/16	1.03	.312		
62-10-8	5/8×1/2	13/16	1.10	.406		

Union
(Ref.SAE No.060101 BA)



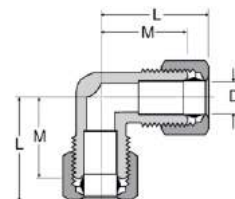
PART#	TUBE SIZE	C	M	D	W.G	Price
74-4	1/4	7/16	1.75	.188		
74-6	3/8	11/16	1.88	.312		

Bulkhead Union



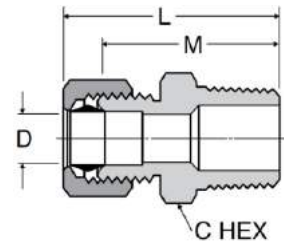
PART#	TUBE SIZE	M	D	W.G	Price
65-3	3/16	.61	.125		
65-4	1/4	.66	.188		
65-5	5/16	.69	.250		
65-6	3/8	.72	.312		
65-8	1/2	.94	.406		
65-10	5/8	1.06	.500		
65-12	3/4	1.19	.562		
65-6-4	3/8×1/4	.75/.69	.125		
65-8-6	1/2×3/8	.94/.88	.312		

Union Elbow
(Ref.SAE No.060201 BA)



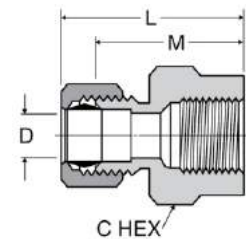
PART#	TUBE×NPTF	C	M	D	W.G	Price
68-2A	1/8×1/8	3/8	.78	.940		
68-3A	3/16×1/8	7/16	.84	.125		
68-3B	3/16×1/4	9/16	.94	.125		
68-4A	1/4×1/8	7/16	.88	.188		
68-4B	1/4×1/4	9/16	.97	.188		
68-4C	1/4×3/8	11/16	1.03	.188		
68-4D	1/4×1/2	7/8	1.09	.188		
68-5A	5/16×1/8	1/2	.89	.234		
68-5B	5/16×1/4	9/16	1.09	.250		
68L-5B	5/16×1/4	9/16	1.01	.250		
68-5C	5/16×3/8	11/16	1.06	.250		
68-6A	3/8×1/8	9/16	.94	.312		
68-6B	3/8×1/4	9/16	1.14	.312		
68L-6B	3/8×1/4	9/16	1.03	.312		
68-6C	3/8×3/8	11/16	1.14	.312		
68L-6C	3/8×3/8	11/16	1.09	.312		
68L-6D	3/8×1/2	7/8	1.19	.312		
68-8B	1/2×1/4	11/16	1.22	.312		
68L-8B	1/2×1/4	11/16	1.09	.312		
68-8C	1/2×3/8	11/16	1.16	.406		
68-8D	1/2×1/2	7/8	1.40	.406		
68L-8D	1/2×1/2	7/8	1.23	.406		
68-8E	1/2×3/4	1-1/16	1.38	.656		
68-10B	5/8×1/4	13/16	1.22	.406		
68-10C	5/8×3/8	13/16	1.22	.406		
68-10D	5/8×1/2	7/8	1.28	.500		
68-12D	3/4×1/2	1"	1.44	.562		
68-12E	3/4×3/4	1-1/16	1.50	.656		

Male Connector
(Ref.SAE No.060102BA)



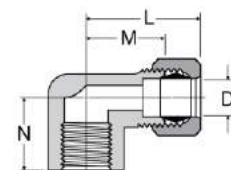
PART#	TUBE×NPTF	C	M	D	W.G	Price
66-2A	1/8×1/8	9/16	.75	.940		
66-3A	3/16×1/8	9/16	.78	.125		
66-4A	1/4×1/8	11/16	.78	.188		
66L-4B	1/4×1/4	11/16	.88	.188		
66-4C	1/4×3/8	13/16	1.00	.312		
66-5A	5/16×1/8	9/16	.88	.234		
66L-5B	5/16×1/4	11/16	.91	.250		
66-6A	3/8×1/8	9/16	.84	.312		
66-6B	3/8×1/4	11/16	.94	.312		
66-6C	3/8×3/8	13/16	1.00	.312		
66-6D	3/8×1/2	1"	1.03	.312		
66-8B	1/2×1/4	11/16	1.09	.312		
66-8C	1/2×3/8	13/16	1.06	.406		
66-8D	1/2×1/2	1"	1.31	.406		
66L-8D	1/2×1/2	1"	1.05	.406		
66-8E	1/2×3/4	1-3/16	1.25	.656		
66-10C	5/8×3/8	13/16	1.03	.406		
66-10D	5/8×1/2	1"	1.38	.500		
66L-10D	5/8×1/2	1"	1.20	.500		
66-12D	3/4×1/2	1-1/8	1.25	.562		
66-12E	3/4×3/4	1-1/16	1.28	.656		

Female Connector
(Ref.SAE.No 060103BA)



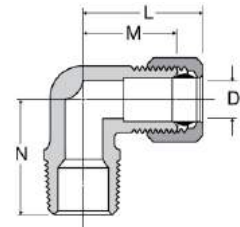
PART#	TUBE×NPTF	N	M	D	W.G	Price
70-3A	3/16×1/8	.470	.69	.125		
70-4A	1/4×1/8	.470	.69	.188		
70-4B	1/4×1/4	.562	.75	.188		
70-5A	5/16×1/8	.600	.78	.234		
70-5B	5/16×1/4	.562	.78	.250		
70-6B	3/8×1/4	.580	.81	.312		
70-6C	3/8×3/8	.580	.88	.312		
70-8B	1/2×1/4	.700	1.00	.312		
70-8C	1/2×3/8	.700	1.00	.406		
70-8D	1/2×1/2	.880	1.00	.406		

90° Female Elbow
(Ref.SAE NO.060203BA)



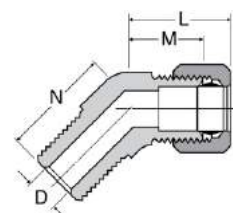
PART#	TUBE×NPTF	N	M	D	W.G	Price
69-2A	1/8×1/8	.68	.59	.940		
69-3A	3/16×1/8	.68	.62	.125		
69-3B	3/16×1/4	.85	.61	.189		
69-4A	1/4×1/8	.75	.62	.189		
69-4B	1/4×1/4	.91	.65	.189		
69-4C	1/4×3/8	.93	.72	.189		
69-4D	1/4×1/2	1.11	.82	.189		
69-5A	5/16×1/8	.71	.66	.234		
69-5B	5/16×1/4	.82	.67	.250		
69-5C	5/16×3/8	.93	.75	.250		
69-5D	5/16×1/2	1.12	.82	.250		
69-6A	3/8×1/8	.72	.72	.312		
69-6B	3/8×1/4	.88	.75	.312		
69-6C	3/8×3/8	.93	.81	.312		
69-6D	3/8×1/2	1.18	.87	.312		
69-8B	1/2×1/4	.97	.88	.312		
69-8C	1/2×3/8	1.06	.88	.406		
69-8D	1/2×1/2	1.13	.94	.406		
69-8E	1/2×3/4	1.25	1.16	.656		
69-10C	5/8×3/8	1.25	1.06	.406		
69-10D	5/8×1/2	1.31	1.06	.500		
69-12D	3/4×1/2	1.31	1.19	.562		
69-12E	3/4×3/4	1.38	1.19	.656		

90° Male Elbow
(Ref.SAE No.060202BA)



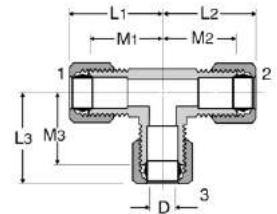
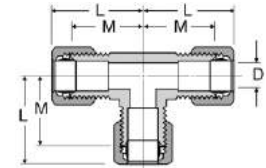
PART#	TUBE×NPTF	N	M	D	W.G	Price
79-3A	3/16×1/8	.61	.43	.125		
79-4A	1/4×1/8	.61	.43	.189		
79-4B	1/4×1/4	.83	.59	.189		
79-5A	5/16×1/8	.66	.66	.234		
79-5B	5/16×1/4	.83	.66	.250		
79-6A	3/8×1/8	.66	.62	.312		
79-6B	3/8×1/4	.83	.62	.312		
79-6C	3/8×3/8	.88	.75	.312		
79-8C	1/2×3/8	.94	.75	.406		
79-8D	1/2×1/2	1.13	.94	.406		

45° Male Elbow
(Ref.SAE No.060302BA)



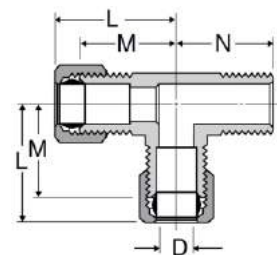
PART#	TUBE SIZE	M	M	D	W.G	Price
64-2	1/8		.53	.94		
64-3	3/16		.59	.125		
64-4	1/4		.627	.188		
64-5	5/16		.65	.250		
64-6	3/8		.73	.312		
64-8	1/2		.94	.406		
64-10	5/8		1.06	.500		
PART#	TUBE SIZE	M1	M2	M3		
64-4-4-6	1/4×1/4×3/8	.69	.69	.75		
64-4-6-4	1/4×3/8×1/4	.69	.75	.69		
64-6-6-4	3/8×3/8×1/4	.75	.75	.69		
64-8-8-6	1/2×1/2×3/8	.94	.94	.81		
64-10-10-8	5/8×5/8×1/2	1.06	1.06	1.06		

Union Tee
(Ref.SAENo.060401 BA)



PART#	O.D×NPTF	M	N	D	W.G	Price
71-3A	3/16×1/8	.63	.69	.125		
71-4A	1/4×1/8	.63	.70	.188		
71-4B	1/4×1/4	.69	.88	.188		
71-5A	5/16×1/8	.72	.75	.250		
71-5B	5/16×1/4	.75	.88	.250		
71-6A	3/8×1/8	.75	.75	.312		
71-6B	3/8×1/4	.78	.87	.312		
71-6C	3/8×3/8	.88	1.00	.330		
71-8C	1/2×3/8	.94	1.09	.406		
71-8D	1/2×1/2	.97	1.19	.406		
71-10D	5/8×1/2	1.06	1.31	.500		

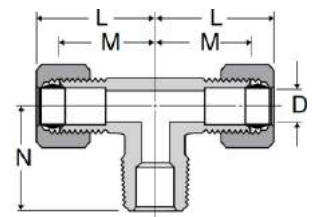
Male Run Tee
(Ref.SAENo.060424 BA)



COMPRESSION

PART#	O.D×NPTF	M	N	D	W.G	Price
72-3A	3/16×1/8	.63	.69	.125		
72-4A	1/4×1/8	.63	.70	.188		
72-4B	1/4×1/4	.68	.86	.188		
72-5A	5/16×1/8	.72	.75	.250		
72-5B	5/16×1/4	.75	.88	.250		
72-6A	3/8×1/8	.75	.75	.312		
72-6B	3/8×1/4	.78	.88	.312		
72-6C	3/8×3/8	.88	1.00	.330		
72-8C	1/2×3/8	.94	1.09	.406		
72-8D	1/2×1/2	.97	1.19	.406		
72-10D	5/8×1/2	1.06	1.31	.500		

Male Branch Tee
(Ref.SAE No.060425 BA)



PART#	O.D	L	W.G	Price
2030-2	1/8	.42		
2030-3	3/16	.45		
2030-4	1/4	.50		
2030-5	5/16	.52		
2030-6	3/8	.56		
2030-8	1/2	.70		
2030-10	5/8	.72		
2030-12	3/4	1.02		

BRASS INSERT



49



Legines

D.O.T PUSH IN

D.O.T PUSH-IN

Meets D.O.T.FMVSS 57.106
Meets SAE J246 & J1131
Staked in Tube Support



European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)



D.O.T.FMVSS 571.106

Fittings comply with the performance requirements



50



How to Use Legines DOT series fittings

Push-In Fittings

Legines -DOT push-in fittings are designed for easy use and fast installation

Legines DOT push-in fittings are designed for easy use and fast installation.

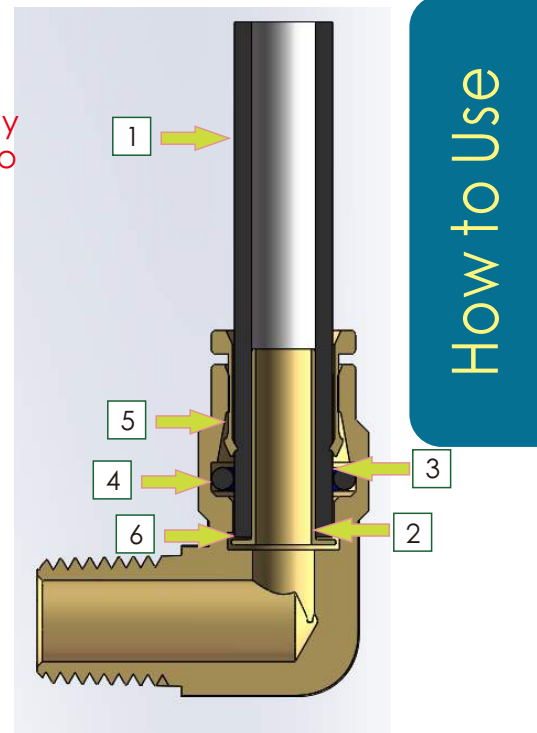


To connect tube:
Cut the plastic tubing as squarely as possible. Insert the tube into the fitting until you feel the friction as the tube slides past the O-ring. (Using a slight twisting motion while inserting the tube often helps.) Once you feel this friction, continue to push the tube inward until it bottoms firmly against the internal tube stop.

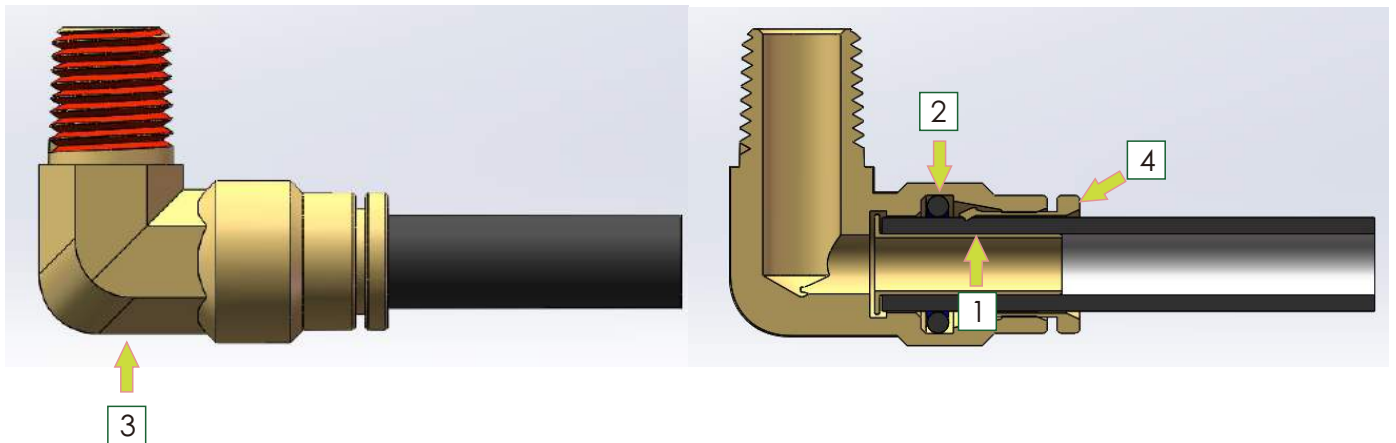
NOTS: Apply silicone oil to the end of the pipe appropriately to increase lubrication and avoid damage to o-ring due to uneven pipe



To disconnect tube:
With middle finger and fore finger, hold the top of the insert down against the fitting body and, with the other hand, pull out the tubing. No tools are needed



When tubing (1) is inserted into the fitting, the inside diameter passes over the brass tube support (2). This, combined with the action of the gripper, insures that the air brake hose assembly will safely exceed the tensile requirements of FMVSS-106. The tubing then passes through the gripping teeth (3). The tubing continues beyond the gripping teeth through the inside diameter of the lubricated "O" ring (4) which seals on the outside diameter of the tubing. The gripping teeth grab the tube. Pulling back on the tube only tightens the grip on the tubing as the insert moves onto the camming surface (5). Pressure through the tube also serves to tighten the grip. The tube bottoms against a positive tube stop (6) in a cavity which keeps tube round to prevent leakage.



- 1 Tube support/Insert 2 'O' -ring 3 Body 4 Pipe clamp

Typical Application:

Air systems.

Pressure:

Working pressure from vacuum to 250 psi

Vibration:

Fair resistance.

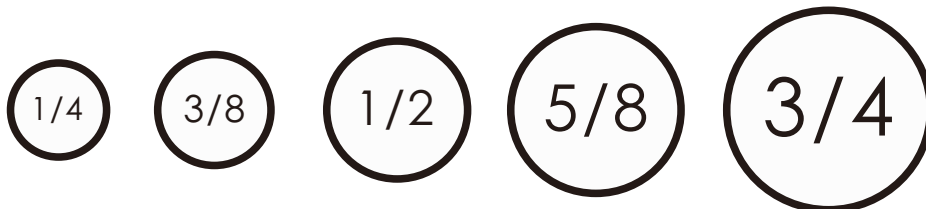
Temperature Range:

Working temperature from -40° F to +200° F (Note: see tubing manufacturer' s recommendations for pressure and temperature limitations)

Material:

CA 360 Brass for Barstock fittings. CA377 Brass for forged fittings

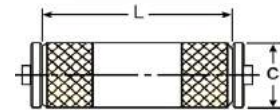
TUBE O.D SIZE



D.O.T PUSH IN

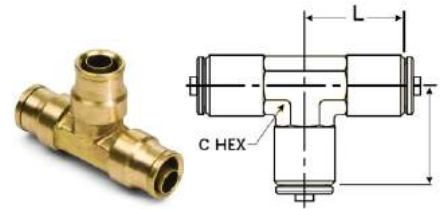
PART#	TUBE SIZE	C	L	W.G	Price
1562-DOT-4	1/4	.44	1.82	25	
1562-DOT-6	3/8	.66	1.82	30	
1562-DOT-8	1/2	.78	2.02	47	
1562-DOT-10	5/8	.91	2.04	87	
1562-DOT-12	3/4	1.06	2.20	135	

Union



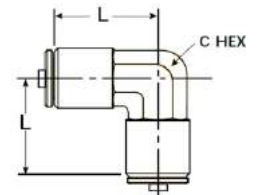
PART#	TUBE SIZE	C	L	W.G	Price
1564-DOT-4	1/4	3/8	.92		
1564-DOT-6	3/8	1/2	.96		
1564-DOT-8	1/2	5/8	1.16		
1564-DOT-10	5/8	11/16	1.19		
1564-DOT-12	3/4	15/16	1.40		

Union Tee



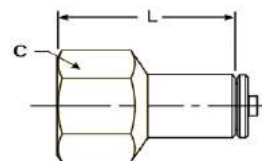
PART#	TUBE SIZE	C	L	W.G	Price
1565-DOT-4	1/4	3/8	.92		
1565-DOT-6	3/8	1/2	.96		
1565-DOT-8	1/2	5/8	1.16		
1565-DOT-10	5/8	11/16	1.19		
1565-DOT-12	3/4	15/16	1.40		

Union Elbow



PART#	O.D×NPTF	C	L	W.G	Price
1566-DOT-4A	1/4×1/8	9/16	1.23		
1566-DOT-4B	1/4×1/4	3/4	1.42		
1566-DOT-6B	3/8×1/4	3/4	1.30		
1566-DOT-6C	3/8×3/8	7/8	1.41		
1566-DOT-8C	1/2×3/8	7/8	1.51		
1566-DOT-8D	1/2×1/2	1-1/8	1.73		

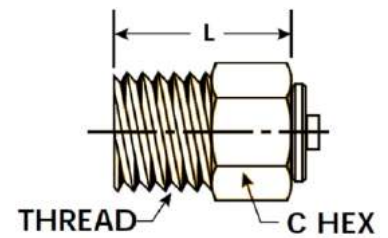
Female Connector



D.O.T PUSH IN

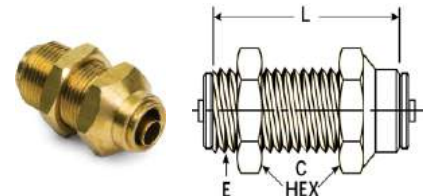
PART#	TUBE×NPTF	C	L	W.G	Price
1568-DOT-4-1	1/4×1/16	7/16	.92		
1568-DOT-4A	1/4×1/8	7/16	.92		
1568-DOT-4B	1/4×1/4	9/16	.96		
1568-DOT-4C	1/4×3/8	11/16	1.02		
1568-DOT-6A	3/8×1/8	11/16	1.18		
1568-DOT-6B	3/8×1/4	11/16	1.11		
1568-DOT-6C	3/8×3/8	11/16	1.02		
1568-DOT-6D	3/8×1/2	7/8	1.02		
1568-DOT-8B	1/2×1/4	13/16	1.36		
1568-DOT-8C	1/2×3/8	13/16	1.18		
1568-DOT-8D	1/2×1/2	7/8	1.02		
1568-DOT-10C	5/8×3/8	15/16	1.34		
1568-DOT-10D	5/8×1/2	15/16	1.58		
1568-DOT-12D	3/4×1/2	1-1/16	1.65		
1568-DOT-12E	3/4×3/4	1-1/16	1.37		

Male Connector



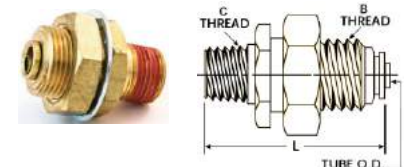
PART#	TUBE SIZE	C	E	L	W.G	Price
1582-DOT-4	1/4	11/16	1/2-20	1.69		
1582-DOT-6	3/8	15/16	5/8-18	1.70		
1582-DOT-8	1/2	15/16	3/4-16	1.88		
1582-DOT-10	5/8	1-1/8	15/16-16	1.88		

Bulkhead Union



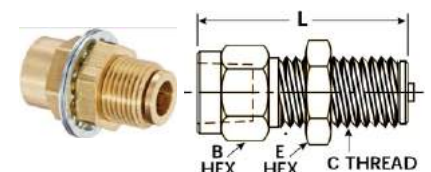
PART#	TUBE×NPTF	C	B	E	L	W.G	Price
1583-DOT-6D	3/8×1/2	1-3/8	1"-14	1-1/4	1.99		
1583-DOT-8D	1/2×1/2	1-3/8	1"-14	1-1/4	1.99		

Gladhand Bulkhead Connector



PART#	TUBE×NPTF	C	B	E	L	W.G	Price
1586-DOT-4A	1/4×1/8	1/2-20	11/16	11/16	1.30		
1586-DOT-4B	1/4×1/4	1/2-20	3/4	11/16	1.56		
1586-DOT-6B	3/8×1/4	5/8-18	3/4	13/16	1.87		
1586-DOT-6C	3/8×3/8	5/8-18	7/8	13/16	1.93		

Gladhand Bulkhead Connector

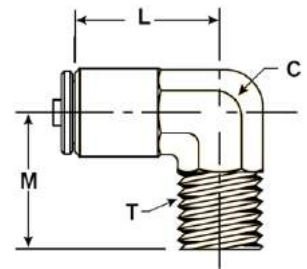


53

D.O.T PUSH IN

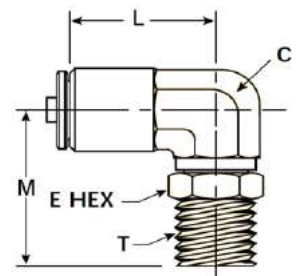
PART#	TUBE×NPTF	C	M	L	W.G	Price
1569-DOT-4A	1/4×1/8	3/8	.75	.91		
1569-DOT-4B	1/4×1/4	3/8	.96	.94		
1569-DOT-4C	1/4×3/8	1/2	.98	1.00		
1569-DOT-6A	3/8×1/8	1/2	.80	.98		
1569-DOT-6B	3/8×1/4	1/2	.94	.98		
1569-DOT-6C	3/8×3/8	1/2	.98	.98		
1569-DOT-6D	3/8×1/2	5/8	1.19	1.04		
1569-DOT-8B	1/2×1/4	5/8	1.05	1.15		
1569-DOT-8C	1/2×3/8	5/8	1.05	1.15		
1569-DOT-8D	1/2×1/2	5/8	1.20	1.16		
1569-DOT-10C	5/8×3/8	3/4	1.13	1.16		
1569-DOT-10D	5/8×1/2	11/16	1.28	1.18		
1569-DOT-12D	3/4×1/2	15/16	1.36	1.32		
1569-DOT-12E	3/4×3/4	15/16	1.36	1.32		

90° Male Elbow



PART#	O.D×NPTF	C	M	L	E	W.G	Price
1569S-DOT-4A	1/4×1/8	3/8	.75	.91	7/16		
1569S-DOT-4B	1/4×1/4	3/8	.96	.94	9/16		
1569S-DOT-4C	1/4×3/8	1/2	.98	1.00	11/16		
1569S-DOT-6A	3/8×1/8	1/2	.80	.98	7/16		
1569S-DOT-6B	3/8×1/4	1/2	.94	.98	9/16		
1569S-DOT-6C	3/8×3/8	1/2	.98	.98	11/16		
1569S-DOT-6D	3/8×1/2	5/8	1.19	1.04	7/8		
1569S-DOT-8B	1/2×1/4	5/8	1.05	1.15	9/16		
1569S-DOT-8C	1/2×3/8	5/8	1.05	1.15	11/16		
1569S-DOT-8D	1/2×1/2	5/8	1.20	1.16	7/8		
1569S-DOT-10C	5/8×3/8	3/4	1.13	1.16	11/16		
1569S-DOT-10D	5/8×1/2	11/16	1.28	1.18	7/8		
1569S-DOT-12D	3/4×1/2	15/16	1.36	1.32	1-1/16		
1569S-DOT-12E	3/4×3/4	15/16	1.36	1.32	1-1/16		

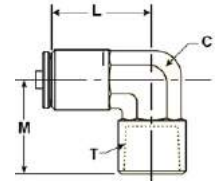
Swivel 90° Male Elbow



D.O.T PUSH IN

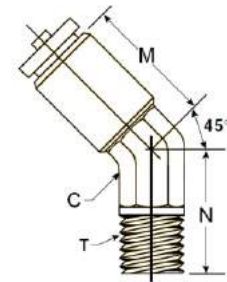
PART#	TUBE SIZE	C	M	L	W.G	Price
1570-DOT-4A	1/4×1/8	3/8	.82	.92		
1570-DOT-4B	1/4×1/4	1/2	.94	.102		
1570-DOT-4C	1/4×3/8	5/8	.98	1.11		
1570-DOT-6B	3/8×1/4	1/2	.94	.96		
1570-DOT-6C	3/8×3/8	5/8	.91	.98		
1570-DOT-8D	1/2×1/2	5/8	1.21	1.14		

Female Elbow



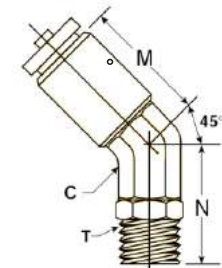
PART#	O.D×NPTF	C	M	N	W.G	Price
1554-DOT-4A	1/4×1/8	3/8	.89	.83		
1554-DOT-4B	1/4×1/4	3/8	.89	.91		
1554-DOT-6A	3/8×1/8	1/2	.98	.75		
1554-DOT-6B	3/8×1/4	1/2	.98	.95		
1554-DOT-6C	3/8×3/8	1/2	.98	.89		
1554-DOT-6D	3/8×1/2	5/8	1.04	1.10		
1554-DOT-8B	1/2×1/4	5/8	1.15	.98		
1554-DOT-8C	1/2×3/8	5/8	1.15	1.05		
1554-DOT-8D	1/2×1/2	5/8	1.16	1.10		
1554-DOT-10C	5/8×3/8	11/16	1.21	1.05		
1554-DOT-10D	5/8×1/2	11/16	1.21	1.12		

45° Male Elbow



PART#	O.D×NPTF	C	M	N	W.G	Price
1554S-DOT-4A	1/4×1/8	3/8	.89	.83		
1554S-DOT-4B	1/4×1/4	3/8	.89	1.10		
1554S-DOT-6A	3/8×1/8	1/2	.98	1.07		
1554S-DOT-6B	3/8×1/4	1/2	.98	1.07		
1554S-DOT-6C	3/8×3/8	1/2	.98	1.23		
1554S-DOT-8B	1/2×1/4	5/8	1.15	1.22		
1554S-DOT-8C	1/2×3/8	5/8	1.15	1.32		
1554S-DOT-8D	1/2×1/2	5/8	1.16	1.61		
1554S-DOT-10D	5/8×1/2	11/16	1.21	1.63		

Swivel 45° Male Elbow



55

D.O.T PUSH IN

PART#	O.D×NPTF	C	M	N	W.G	Price
1571-DOT-4A	1/4×1/8	3/8	.89	.89		
1571-DOT-4B	1/4×1/4	3/8	.89	1.10		
1571-DOT-6B	3/8×1/4	1/2	.98	1.07		
1571-DOT-6C	3/8×3/8	1/2	.98	1.23		
1571-DOT-8C	1/2×3/8	5/8	1.15	1.32		

Male Run Tee



PART#	O.D×NPTF	C	E	M	N	W.G	Price
1571S-DOT-4A	1/4×1/8	3/8	7/16	.92	1.05		
1571S-DOT-4B	1/4×1/4	3/8	9/16	.92	1.24		
1571S-DOT-6B	3/8×1/4	1/2	9/16	.98	1.14		
1571S-DOT-6C	3/8×3/8	1/2	11/16	1.14	1.18		
1571S-DOT-8C	1/2×3/8	5/8	11/16	1.14	1.31		

Swicel Male Run Tee



PART#	O.D×NPTF	C	M	N	W.G	Price
1572-DOT-4A	1/4×1/8	3/8	.92	.74		
1572-DOT-4B	1/4×1/4	3/8	.92	.92		
1572-DOT-6B	3/8×1/4	1/2	.98	1.00		
1572-DOT-6C	3/8×3/8	1/2	.98	.98		
1572-DOT-8B	1/2×1/4	5/8	1.10	1.05		
1572-DOT-8C	1/2×3/8	5/8	1.14	1.05		

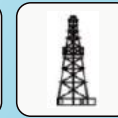
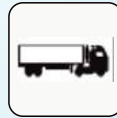
Male Branch Tee



PART#	O.D×NPTF	C	E	M	N	W.G	Price
1572S-DOT-4A	1/4×1/8	3/8	7/16	.92	1.04		
1572S-DOT-4B	1/4×1/4	3/8	9/16	.92	1.16		
1572S-DOT-6A	3/8×1/8	1/2	7/16	.98	1.06		
1572S-DOT-6B	3/8×1/4	1/2	9/16	.98	1.16		
1572S-DOT-6C	3/8×3/8	1/2	11/16	.98	1.21		
1572S-DOT-8B	1/2×1/4	5/8	9/16	1.14	1.26		
1572S-DOT-8C	1/2×3/8	5/8	11/16	1.14	1.31		
1572S-DOT-8D	1/2×1/2	5/8	7/8	1.14	1.31		

Swicel Male Branch Tee





Legines PTC Composite

Product Features

- Brass Collet
- Buna N o-ring
- Stainless Steel Tube Support
- Meets D.O.T.FMVSS 57.106
- Meets SAE J2494-3
- Composite Body-Strong,Lightweight
- Compact and Impact Resistant
- Plug-in congurations



57

D.O.T.FMVSS 571.106

Fittings comply with the performance requirements



How to Use Legines DOT series fittings

Transportation Push-to-Connect Fittings
Legines -DOT push-in fittings are designed for easy use and fast installation, Lightweight



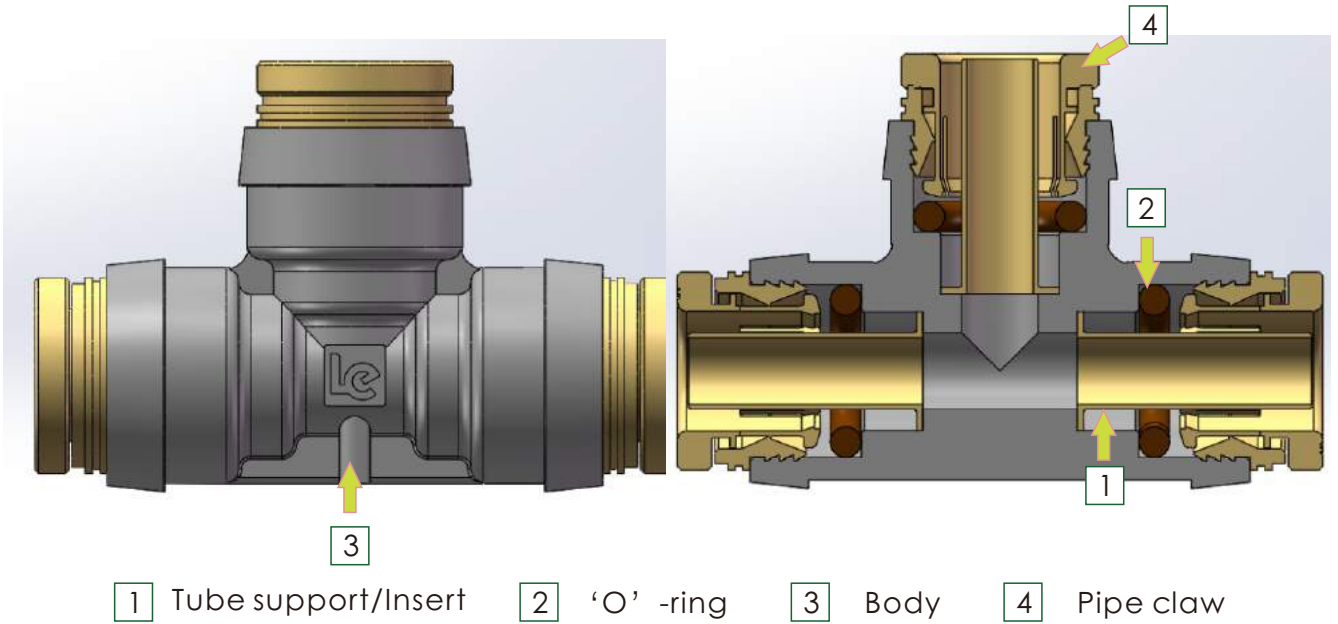
To connect tube:
Cut the plastic tubing as squarely as possible. Insert the tube into the fitting until you feel the friction as the tube slides past the O-ring. (Using a slight twisting motion while inserting the tube often helps.) Once you feel this friction, continue to push the tube inward until it bottoms firmly against the internal tube stop.

NOTS: Apply silicone oil to the end of the pipe appropriately to increase lubrication and avoid damage to o-ring due to uneven pipe



To disconnect tube:
With middle finger and fore finger, hold the top of the insert down against the fitting body and, with the other hand, pull out the tubing. No tools are needed

When tubing (1) is inserted into the fitting, the inside diameter passes over the brass tube support (2). This, combined with the action of the gripper, insures that the air brake hose assembly will safely exceed the tensile requirements of FMVSS-106. The tubing then passes through the gripping teeth (3). The tubing continues beyond the gripping teeth through the inside diameter of the lubricated "O" ring (4) which seals on the outside diameter of the tubing. The gripping teeth grab the tube. Pulling back on the tube only tightens the grip on the tubing as the insert moves onto the camming surface (5). Pressure through the tube also serves to tighten the grip. The tube bottoms against a positive tube stop (6) in a cavity which keeps tube round to prevent leakage.



Typical Application:

Air systems.

Pressure:

Working pressure from vacuum to 250 psi

Vibration:

Fair resistance.

Temperature Range:

Working temperature from -40° F to +200° F (Note: see tubing manufacturer' s recommendations for pressure and temperature limitations)

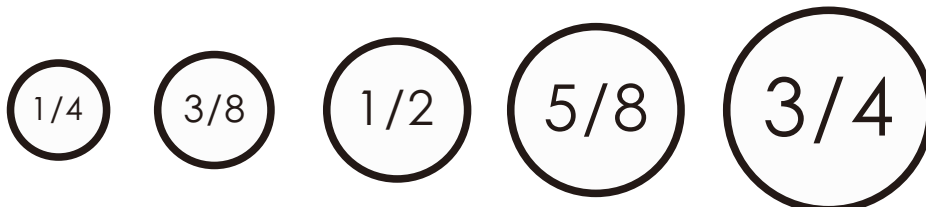
Material:

CA 360 Brass for Barstock fittings. Composite Nylon.

Compatible Tubing:

SAE J844 Type A&B Nylon Tubing

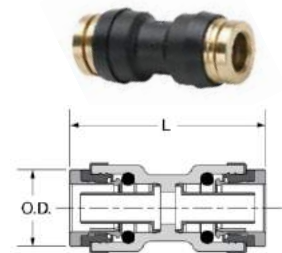
TUBE O.D SIZE



PTC Composite

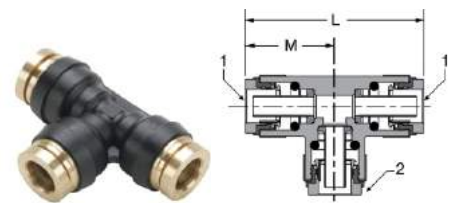
PART#	Tube Size	L	O.D	W.G	Price
32PTC-4	1/4	1.33	.53	25	
32PTC-6	3/8	1.61	.73	30	
32PTC-8	1/2	1.75	.88	47	
32PTC-10	5/8	2.15	1.02	87	
32PTC-12	3/4	2.50	1.17	135	

Union 32PTC



PART#	Tube Size	M	L	W.G	Price
364PTC-4	1/4	.71	1.42		
364PTC-6	3/8	.99	1.99		
364PTC-8	1/2	1.13	2.25		
364PTC-10	5/8	1.44	2.88		
364PTC-6-4-6	3/8×1/4×3/8 ②	1.01	2.03		

Union Tee 364PTC



PART#	Tube Size	L	W.G	Price
365PTC-4	1/4	.69		
365PTC-6	3/8	.99		
365PTC-8	1/2	1.10		

Union Elbow 365PTC



PART#	Tube Size	L	N	N1	W.G	Price
362PTC-4	1/4	9/16	1.06	.50		
362PTC-6	3/8	3/4	1.43	.68		
362PTC-8	1/2	3/4	1.74	.84		

Union Y 362PTC

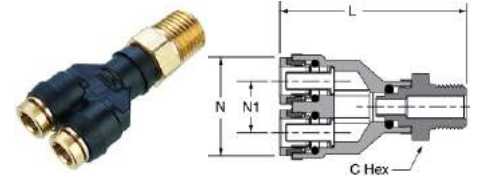


60

PTC Composite

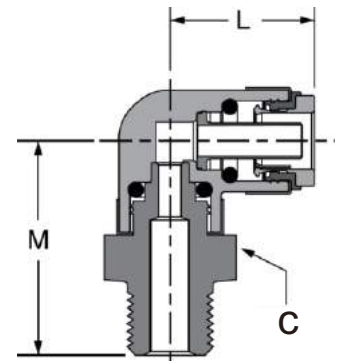
PART#	Tube x Thread	C	N	N1	L	Price
368PTC-4A	1/4 x 1/8	9/16	1.03	.50	1.96	
368PTC-4B	1/4 x 1/4	9/16	1.03	.50	2.12	
368PTC-6B	3/8 x 1/4	3/4	1.41	.68	2.56	
368PTC-8C	1/2 x 3/8	15/16	1.59	.85	2.75	
368PTC-8D	1/2 x 1/2	15/16	1.59	.85	2.95	

Union Y Male Connector
368PTC



PART#	Tube x Thread	C	M	L	W.G	Price
369PTC-4A	1/4 x 1/8	9/16	.69	.69		
369PTC-4B	1/4 x 1/4	9/16	.69	1.20		
369PTC-4C	1/4 x 3/8	9/16	.69	1.20		
369PTC-6A	3/8 x 1/8	3/4	.99	1.13		
369PTC-6B	3/8 x 1/4	3/4	.99	1.28		
369PTC-6C	3/8 x 3/8	3/4	.99	1.28		
369PTC-6D	3/8 x 1/2	3/4	.99	1.47		
369PTC-8B	1/2 x 1/4	15/16	1.11	1.39		
369PTC-6C	1/2 x 3/8	15/16	1.11	1.39		
369PTC-6D	1/2 x 1/2	15/16	1.11	1.58		
369PTC-10C	5/8 x 3/8	1-1/16	1.33	1.60		
369PTC-10D	5/8 x 1/2	1-1/16	1.33	1.79		
369PTC-12D	3/4 x 1/2	1-3/16	1.52	1.89		
369PTC-12E	3/4 x 3/4	1-3/16	1.52	1.89		

Male Elbow Swivel 90°
369PTC



61

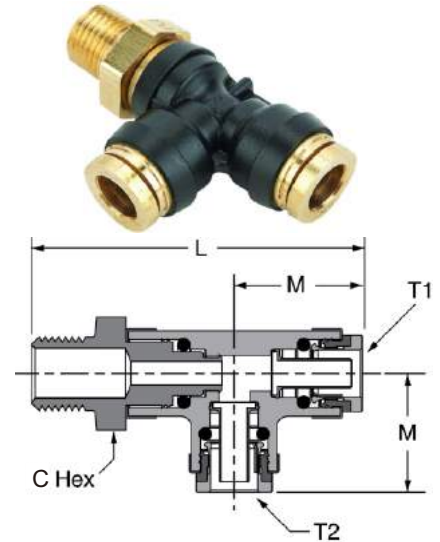
PART#	Tube 1	Tube 2	H	L	W.G	Price
369PTCSP-4-4	1/4	1/4	1.06	.74		
369PTCSP-4-6	1/4	3/8	1.20	.74		
369PTCSP-6-4	3/8	1/4	1.18	.96		
369PTCSP-6-6	3/8	3/8	1.32	.96		
369PTCSP-8-4	1/2	1/4	1.16	1.12		

Plug-In Elbow 369PTCSP



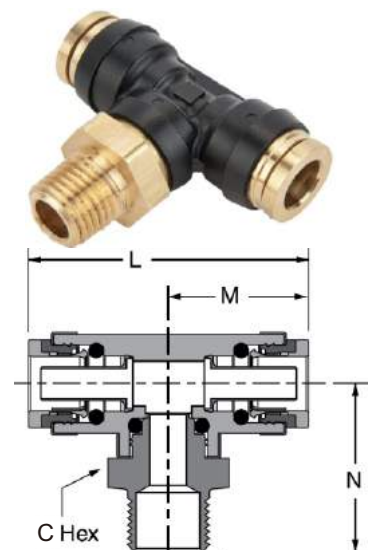
PART#	Tube T1&T2	Thread	C	M	L	Price
371PTC-4A	1/4	1/8	9/16	.71	1.93	
371PTC-4B	1/4	1/4	9/16	.71	2.08	
371PTC-4C	1/4	3/8	3/4	.71	2.08	
371PTC-6B	3/8	1/4	3/4	.99	2.27	
371PTC-6-4-B	3/8×1/4	1/4	3/4	.99	2.27	
371PTC-6-6	3/8	3/8	3/4	.99	2.27	
371PTC-6D	3/8	1/2	15/16	.99	2.37	
371PTC-8B	1/2	1/4	15/16	1.13	2.55	
371PTC-8C	1/2	3/8	15/16	1.13	2.74	
371PTC-8D	1/2	1/2	15/16	1.13	2.74	
371PTC-10D	5/8	1/2	1-1/6	1.44	3.24	

Male Run Tee Swivel
371PTC



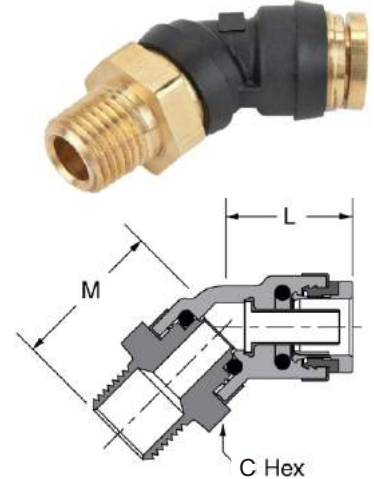
PART#	Tube T1&T2	Thread	C	L	M	N	Price
372PTC-4A	1/4	1/8	9/16	1.42	.71	1.22	
372PTC-4B	1/4	1/4	9/16	1.42	.71	1.37	
372PTC-4C	1/4	3/8	3/4	1.42	.71	1.37	
372PTC-6A	3/8	1/8	3/4	1.99	.99	1.17	
372PTC-6B	3/8	1/4	3/4	1.99	.99	1.32	
372PTC-6C	3/8	3/8	3/4	1.99	.99	1.32	
372PTC-8B	1/2	1/4	15/16	2.25	1.13	1.39	
372PTC-8C	1/2	3/8	15/16	2.25	1.13	1.39	
372PTC-8D	1/2	1/2	15/16	2.25	1.13	1.58	
372PTC-10D	5/8	1/2	1.16	2.82	1.41	1.80	

Male Branch Tee Swivel
372PTC



PART#	Tube x Thread	C	M	L	W.G	Price
379PTC-4A	1/4 x 1/8	9/16	.97	.60		
379PTC-4B	1/4 x 1/4	9/16	1.12	.64		
379PTC-4C	1/4 x 3/8	3/4	1.12	.64		
379PTC-6A	3/8 x 1/8	3/4	1.01	.85		
379PTC-6B	3/8 x 1/4	3/4	1.16	.87		
379PTC-6C	3/8 x 3/8	3/4	1.16	.87		
379PTC-6D	3/8 x 1/2	15/16	1.40	.89		
379PTC-8B	1/2 x 1/4	15/16	1.20	1.01		
379PTC-8C	1/2 x 3/8	15/16	1.20	1.01		
379PTC-8D	1/2 x 1/2	15/16	1.39	1.01		
379PTC-10C	5/8 x 3/8	1-1/16	1.41	1.18		
379PTC-10D	5/8 x 1/2	1-1/16	1.61	1.18		

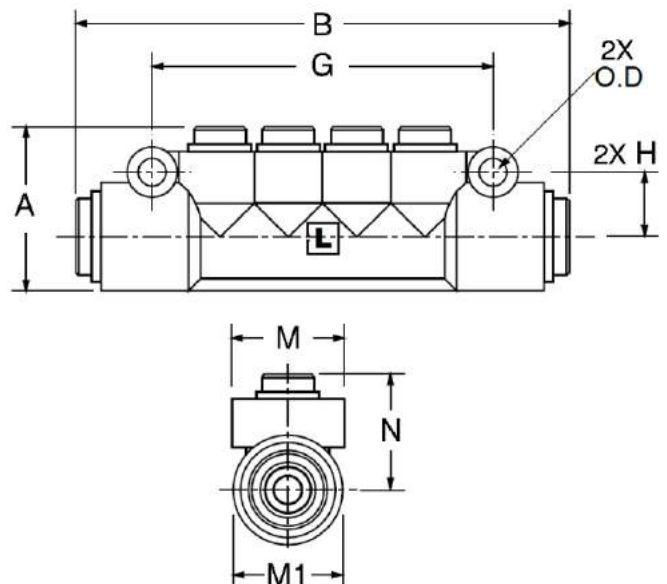
Male Elbow Swivel 45°
379PTC



Cartridges & Manifolds

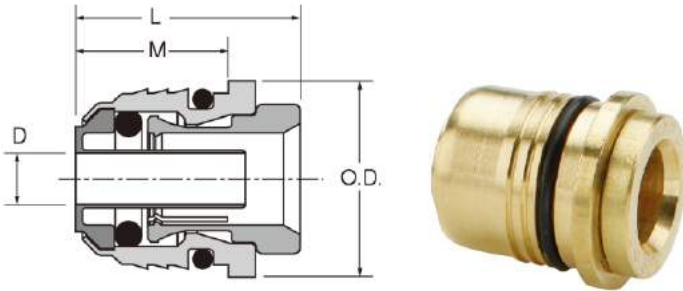
PART No.	Tube O.D Inlet	Tube O.D Outlet	A	B	D	G	H	M	M1	N
24M-4-4	1/4	1/4	1.33	3.98	.21	2.75	.53	.90	.88	.89
24M-6-4	3/8	1/4	1.33	4.00	.21	2.75	.53	.90	.88	.89
24M-6-6	3/8	3/8	1.65	6.49	.22	4.55	.60	1.02	1.02	1.33
24M-8-8	1/2	1/2	1.65	6.49	.22	4.55	.60	1.02	1.02	1.33
24M-8-6-4-4-6-8	1/2	3/8 & 1/4	1.65	6.49	.22	4.55	.60	1.02	1.02	1.17

Presto Manifold 24M



Cartridges & Manifolds

Prestomatic SAE Encapsulated Cartridge PMTCE



PART NO	Tube Size	Cavity Size	L	M	O.D	Flow DIA .D
PM4CE-4	1/4	.504	.64	.44	.56	.140
PMTCE-4-8	1/4	.775	.66	.42	.87	.140
PMTCE-6	3/8	.650	.84	.64	.75	.217
PMTCE-6-8	3/8	.775	.84	.64	.87	.217
PMTCE-8	1/2	.775	.98	.77	.87	.338
PMCE-5/32	5/32	.346	.57	.43	.44	.125



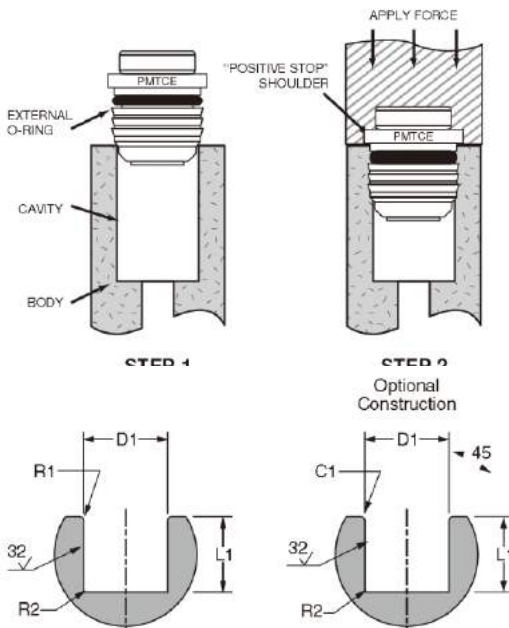
The SAE Encapsulated cartridge allows the user to eliminate the space and labor required to install and assemble a conventional pipe thread fitting connection. The cartridge is retained in the cavity by 3 bars versus the normal 2 bars for better performance over a wider diameter tolerance range.

Cavity Specifications

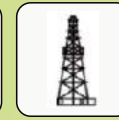
Dimensions are per the proposed SAE Standard J2494-4. The SAE Encapsulated Cartridge is thoroughly tested to meet or exceed the performance requirements of D.O.T. FMVSS 571.106 and SAE J2231 and the proposed dimensional standards of SAE J2494-4 in 6061-T6 aluminum. Cavity dimensions specified by SAE J2494-4 need to be adjusted slightly for optimum performance in material other than 6061-T6.

Installation

Apply force evenly over the top surface of the cartridge body until the cartridge shoulder bottoms out on the top of the cavity. The amount of force required will vary depending on the cartridge size and the material of the cavity.



NOMINAL TUBE OD (IN)	D1 (MM) ±.05	D1 (IN) ±.002	L1 (MM) MIN	L1 (IN) MIN	R1 (MM) ±.05	R1 (IN) ±.002	R2 (MM) ±.05	R2 (IN) ±.002	C1 (MM) ±.05	C1 (IN) ±.002
5/32	8.8	0.346	11.4	0.45	0.5	0.02	0.5	0.02	0.5	0.02
1/4	12.8	0.504	12.7	0.5	0.5	0.02	0.5	0.02	0.5	0.02
3/8	16.5	0.65	16.5	0.65	0.5	0.02	0.5	0.02	0.5	0.02
1/2	19.7	0.775	19.8	0.78	0.5	0.02	0.5	0.02	0.5	0.02
5/8	23.5	0.925	22.4	0.88	0.8	0.03	0.5	0.02	0.8	0.03
3/4	27.1	1.067	23.9	0.94	0.8	0.03	0.5	0.02	0.8	0.03



Legines METRIC DOT PUSH IN

D.O.T PUSH-IN
Meets ISO9001-2000
ISO/TS16949-2000



European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)

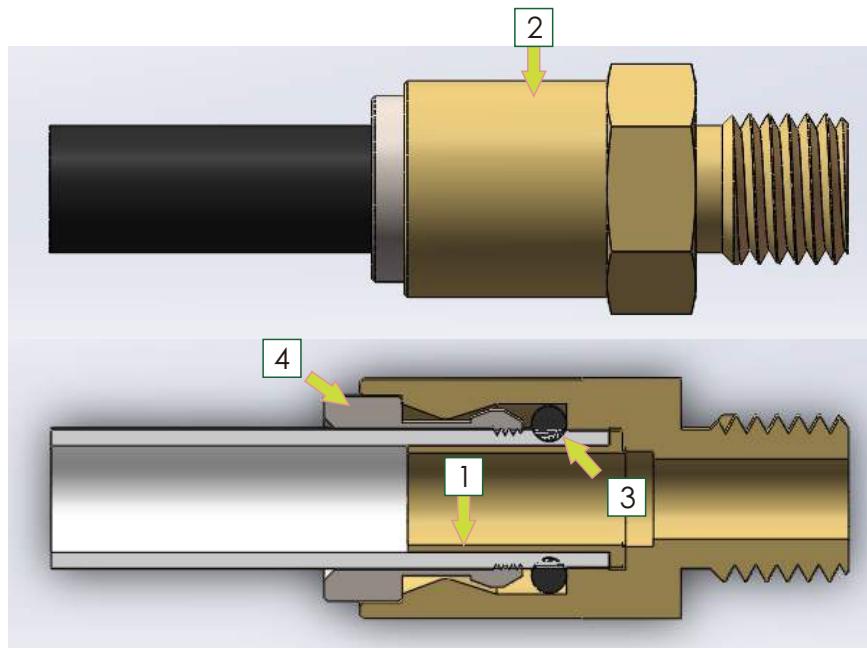


DIN 74324 (metric tube and fittings)



65





- 1 Tube support/Insert 2 'O' -ring 3 Body 4 Pipe clamp

Typical Application:

Air systems.

Pressure:

Working pressure Max 140 psi

Vibration:

Fair resistance.

Temperature Range:

Working temperature from -40° F to +200° F (Note: see tubing manufacturer' s recommendations for pressure and temperature limitations)

Tubing:

Tube should be to DIN 74324

Material:

Body (straights), tube support, collet: brass BS 2874 CZ 121 or Hpb 59-1

Body (elbows, tees): brass BS 2874 CZ 122 or Hpb58-2

TUBE O.D SIZE

6

8

10

12

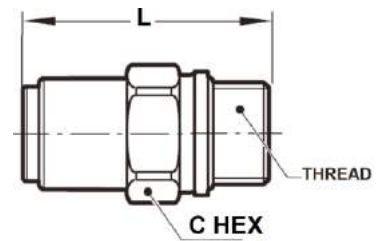
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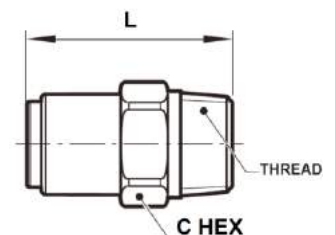
PART#	TUBE	THREAD	C	L	W.G	Price
1668-6M10*1	6mm	M10*1.5	S14	28.5		
1668-6M12*1.5	6mm	M12*1.5	S17	30.5		
1668-6M14*1.5	6mm	M14*1.5	S19	31.5		
1668-6M16*1.5	6mm	M16*1.5	S22	27.5		
1668-6M22*1.5	6mm	M22*1.5	S27	30.5		
1668-8M10*1	8mm	M10*1	S17	29.5		
1668-8M12*1.5	8mm	M12*1.5	S17	31.5		
1668-8M14*1.5	8mm	M14*1.5	S19	31.5		
1668-8M16*1.5	8mm	M16*1.5	S22	31.5		
1668-8M22*1.5	8mm	M22*1.5	S27	30.5		
1668-10M10*1	10mm	M10*1	S17	33.0		
1668-10M12*1.5	10mm	M12*1.5	S17	35.0		
1668-10M14*1.5	10mm	M14*1.5	S19	35.0		
1668-10M16*1.5	10mm	M16*1.5	S22	35.0		
1668-10M22*1.5	10mm	M22*1.5	S27	31.0		
1668-12M12*1.5	12mm	M12*1.5	S22	38.5		
1668-12M14*1.5	12mm	M14*1.5	S22	38.5		
1668-12M16*1.5	12mm	M16*1.5	S22	39.0		
1668-12M22*1.5	12mm	M22*1.5	S27	35.0		
1668-15M22*1.5	15mm	M22*1.5	S27	45.0		
1668-16M16*1.5	16mm	M16*1.5	S27	42.5		
1688-16M22*.15	16mm	M22*1.5	S27	44.5		
1668-18M22*1.5	18mm	M22*1.5	S30	44.5		

Male Connector



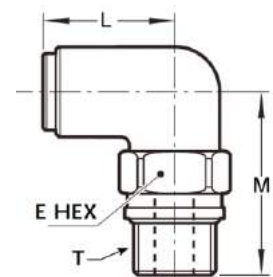
PART#	TUBE	THREAD	C	L	W.G	Price
1668-06A	6mm	R1/8	S14	26.5		
1668-06B	6mm	R1/4	S14	27.0		
1668-08A	8mm	R1/8	S15	30.0		
1668-08B	8mm	R1/4	S15	30.0		
1668-010B	6mm	R1/4	S17	34.5		
1668-010C	10mm	R3/8	S17	34.5		
1668-012B	12mm	R1/4	S22	39.5		

Male Connector



PART#	TUBE	THREAD	E	M	L	W.G	Price
1669-6M10*1	6mm	M10*1.0	S15	26.0	23.5		
1669-6M12*1.5	6mm	M12*1.5	S17	29.0	23.5		
1669-6M16*1.5	6mm	M16*1.5	S24	34.0	24.5		
1669-6M22*1.5	6mm	M22*1.5	S30	41.5	28.5		
1669-8M12*1.5	8mm	M12*1.5	S17	31.5	25.5		
1669-8M16*1.5	8mm	M16*1.5	S24	34.0	25.5		
1669-8M22*1.5	8mm	M22*1.5	S30	41.5	28.5		
1669-10M10*1	10mm	M10*1	S15	28.0	27.0		
1669-10M12*1.5	10mm	M12*1.5	S17	31.0	29.0		
1669-10M14*1.5	10mm	M14*1.5	S19	31.5	28.0		
1669-10M16*1.5	10mm	M16*1.5	S24	33.5	29.0		
1669-10M22*1.5	10mm	M22*1.5	S30	40.5	32.0		
1669-12M16*1.5	12mm	M16*1.5	S24	35.5	32.0		
1669-12M22*1.5	12mm	M22*1.5	S30	40.5	34.5		
1669-16M16*1.5	16mm	M16*1.5	S24	38.5	38.0		
1689-16M22*.15	16mm	M22*1.5	S30	40.5	38.0		
1669-18M22*1.5	18mm	M22*1.5	S30	43.0	39.5		

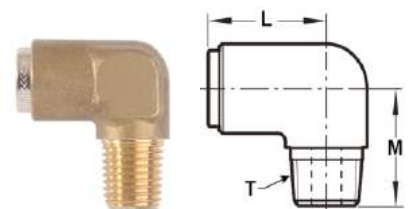
90° Universal hobbs elbow adaptor metric thread



68

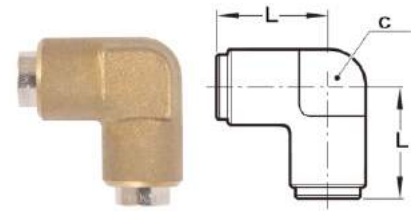
PART#	TUBE	THREAD	E	L	W.G	Price
1669-06A	6mm	R1/8	20.0	20.5		
1669-06B	6mm	R1/4	22.0	22.0		
1669-08B	8mm	R1/4	22.0	23.0		
1669-010B	10mm	R1/4	24.0	25.0		
1669-012B	12mm	R1/4	27.0	30.0		
1669-012D	12mm	R1/2	31.0	30.5		

90° Male Elbow BSPT thread



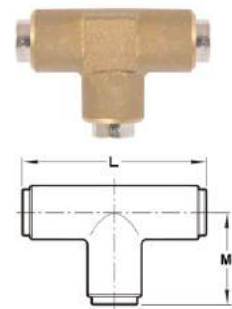
PART#	TUBE	C	L	W.G	Price
1665-060	6mm	10.0	21.0		
1665-080	8mm	11.0	23.0		
1665-010	10mm	14.0	27.0		
1665-012	12mm	16.0	32.0		
1665-015	15mm	27.0	38.5		
1665-016	16mm	27.0	39.0		

Elbow Union



PART#	TUBE	L	M	W.G	Price
1664-060	6mm	42.0	21.0		
1664-080	8mm	45.5	23.0		
1664-010	10mm	54.0	27.0		
1664-012	12mm	64.0	32.0		
1664-015	15mm	77.0	38.5		
1664-016	16mm	78.0	39.0		

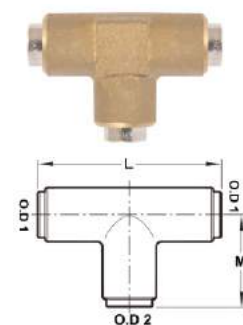
Tee Union



69

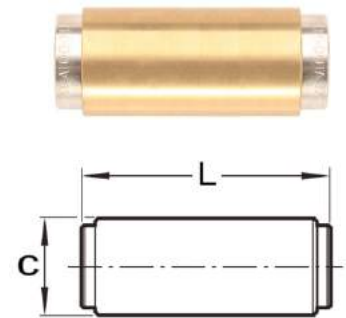
PART#	TUBE O.D 1	TUBE O.D 2	L	M	W.G	Price
1664-1006	10mm	6mm	54.0	23.5		
1664-1206	12mm	6mm	64.0	25.5		
1664-1208	12mm	8mm	64.0	27.5		

Reducing Tee connector



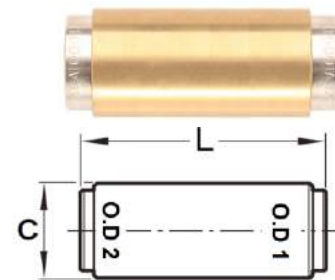
PART#	TUBE	C	L	W.G	Price
1662-060	6mm	13.0	37.0		
1662-080	8mm	15.0	37.6		
1662-010	10mm	17.0	44.5		
1662-011	11mm	19.0	46.2		
1662-012	12mm	20.5	51.5		
1662-014	14mm	22.0	50.2		
1662-015	15mm	27.0	62.0		
1662-016	16mm	27.0	62.0		

Union



PART#	TUBE O.D 1	TUBE O.D 2	C	L	W.G	Price
1662-0806	8mm	6mm	15.0	38.5		
1664-1006	10mm	6mm	17.0	43.5		

Reducing Union Connector



70

★ Depending on the truck model, we offer other custom accessories such as: 45° Male Elbow, Swivel 45° Male elbow, Female elbow, Male Run Tee, Swivel Male Run Tee, Male Branch Tee, Swivel Male branch Tee and Bulkhead Union.





Legines

D.O.T AIR BRAKE NYLON TUBING

D.O.T AIR BAREK NYLON TUBING

Meets D.O.T.FMVSS 571.106
Meets SAE J246 & J1131
Staked in Tube Support
Pre-applied Sealant



Fittings meet the requirements of the specific SAE standard called out in the product sections



European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)

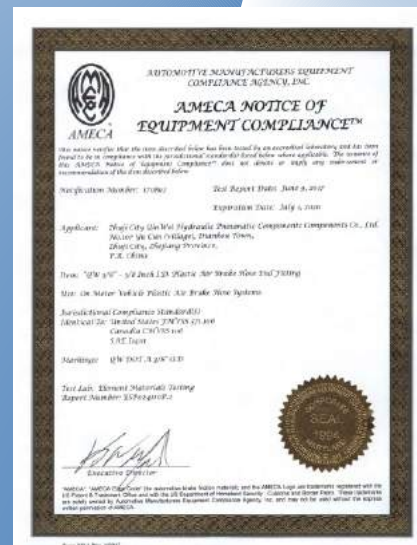


71

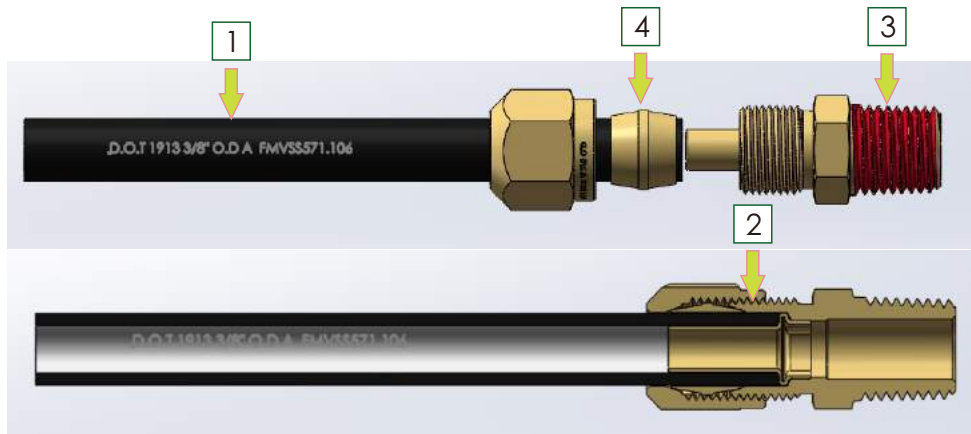


D.O.T.FMVSS 571.106

Fittings comply with the performance requirements



D.O.T AIR BRAKE NYLON TUBING



- 1 Nylon Tube 2 Thread size-B 3 Thread pre-coating glue 4 sleeve

TUBE O.D	1/4"	3/8"	1/2"	5/8"	3/4"
Thread size-B	7/16-24	17/32-24	11/16-20	13/16-18	1"-18

Typical Application:

Air brake systems except where temperatures exceed +200° F tubing.
or where battery acid can drip on

Pressure:

Maximum operating pressure of 150 psi.

Vibration:

Fair resistance.

Temperature Range:

-40° F to +200° F (-40° C to +93° C)

Material:

CA360 Brass.

Used With:

NT100 Nylon Tubing - SAE J844 Type A and B. See page 27 for NT100 ylon Tubing data.

Advantages:

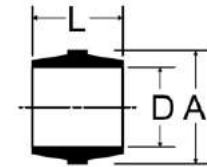
Easy to assemble (no TUBE preparation or flaring required.) Built in TUBE support.

May be used with copper tubing by replacing nut, sleeve and insert with long nut
and spherical sleeve. Insert should be remc

D.O.T AIR BRAKE NYLON TUBING

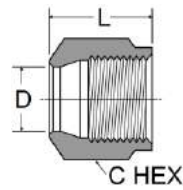
PART#	TUBE SIZE	A	D	L	W.G	Price
1460-4	1/4	.359	.256	.30		
1460-6	3/8	.479	.386	.39		
1460-8	1/2	.625	.509	.438		
1460-10	5/8	.745	.635	.48		
1460-12	3/4	.922	.760	.53		

Sleeve
(Ref.SAE No.100115 BA)



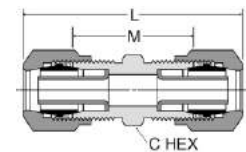
PART#	TUBE SIZE	C	D	L	W.G	Price
1461-4	1/4	9/16	.256	.45		
1461-6	3/8	5/8	.384	.63		
1461-8	1/2	13/16	.509	.72		
1461-10	5/8	15/16	.635	.77		
1461-12	3/4	1-1/8	.760	.81		

Nut
(Ref.SAE No.100110 BA)



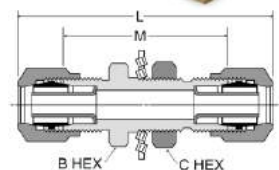
PART#	TUBE SIZE	C	M	W.G	Price
1462-4	1/4	7/16	.85		
1462-6	3/8	9/16	1.10		
1462-8	1/2	11/16	1.31		
1462-10	5/8	13/16	1.43		
1462-12	3/4	1"	1.60		

Union
(Ref.SAE No.100101 BA)



PART#	TUBE SIZE	C	B	M	W.G	Price
1474-4	1/4	9/16	9/16	1.38		
1474-6	3/8	3/4	11/16	1.62		
1474-8	1/2	1"	13/16	1.88		
1474-10	5/8	1"	15/16	2.02		

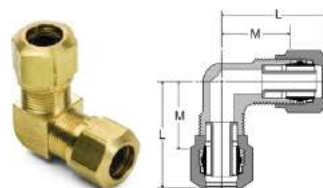
Bulkhead Union



D.O.T AIR BRAKE NYLON TUBING

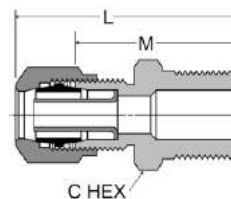
PART#	TUBE SIZE	M	W.G	Price
1465-4	1/4	.62		
1465-6	3/8	.70		
1465-8	1/2	.93		
1465-10	5/8	1.02		

Union Elbow
(Ref.SAE No.100201 BA)



PART#	TUBE×NPTF	C	M	W.G	Price
1468-4A	1/4×1/8	7/16	.88		
1468-4B	1/4×1/4	9/16	1.09		
1468-4C	1/4×3/8	11/16	1.12		
1468-6A	3/8×1/8	9/16	1.02		
1468-6B	3/8×1/4	9/16	1.20		
1468-6C	3/8×3/8	11/16	1.23		
1468-6D	3/8×1/2	7/8	1.42		
1468-8B	1/2×1/4	11/16	1.32		
1468-8C	1/2×3/8	11/16	1.32		
1468-8D	1/2×1/2	7/8	1.51		
1468-10C	5/8×3/8	13/16	1.38		
1468-10D	5/8×1/2	7/8	1.57		
1468-10E	5/8×3/4	1-1/16	1.63		
1468-12D	3/4×1/2	1"	1.67		
1468-12E	1/2×3/4	1-1/16	1.70		

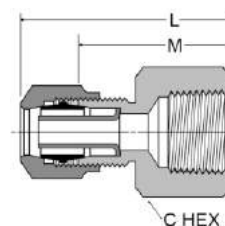
Male Connector
(Ref.SAE No.100102 BA)



74

PART#	TUBE×NPTF	C	M	W.G	Price
1466-4A	1/4×1/8	9/16	.84		
1466-4B	1/4×1/4	11/16	1.07		
1466-6A	3/8×1/8	9/16	1.00		
1466-6B	3/8×1/4	11/16	1.18		
1466-6C	3/8×3/8	7/8	1.18		
1466-8C	1/2×3/8	7/8	1.27		
1466-8D	1/2×1/2	1-1/16	1.44		
1466-10C	5/8×3/8	7/8	1.31		
1466-10D	5/8×1/2	1-1/16	1.50		

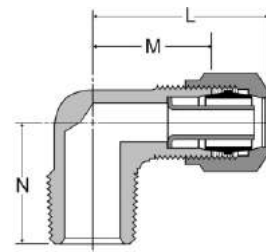
Female Connector
(Ref.SAE No.100103 BA)



D.O.T AIR BRAKE NYLON TUBING

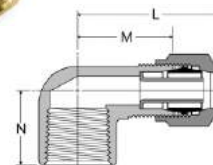
PART#	TUBE×NPTF	M	N	W.G	Price
1469-4A	1/4×1/8	.61	.67		
1469-4B	1/4×1/4	.65	.81		
1469-4C	1/4×3/8	.72	.86		
1469-6A	3/8×1/8	.72	.73		
1469-6B	3/8×1/4	.80	.84		
1469-6C	3/8×3/8	.83	.91		
1469-6D	3/8×1/2	.94	1.09		
1469-8B	1/2×1/4	.85	.98		
1469-8C	1/2×3/8	.92	.98		
1469-8D	1/2×1/2	1.02	1.09		
1469-10C	5/8×3/8	1.00	1.02		
1469-10D	5/8×1/2	1.09	1.25		
1469-10E	5/8×3/4	1.09	1.25		
1469-12D	3/4×1/2	1.16	1.30		
1469-12E	3/4×3/4	1.26	1.32		

90° Male Elbow
(Ref.SAE No.100202 BA)



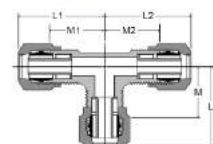
PART#	TUBE×NPTF	M	N	W.G	Price
1470-4A	1/4×1/8	.59	.64		
1470-4B	1/4×1/4	.68	.87		
1470-6A	3/8×1/8	.73	.75		
1470-6B	3/8×1/4	.73	.87		
1470-6C	3/8×3/8	.74	.87		
1470-8C	1/2×3/8	.92	.95		
1470-8D	1/2×1/2	1.03	1.18		

90° Female Elbow
(Ref.SAE No.100203 BA)



PART#	TUBE SIZE	M1×M2	M3	W.G	Price
1464-4	1/4	.62	.62		
1464-6-6-4	3/8×3/8×1/4	.72	.69		
1464-6	3/8	.78	.78		
1464-8-8-6	1/2×1/2×3/8	.92	.85		
1464-8	1/2	.92	.92		
1464-10	5/8	1.09	1.09		

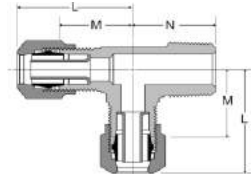
Union Tee
(Ref.SAE No.100301 BA)



D.O.T AIR BRAKE NYLON TUBING

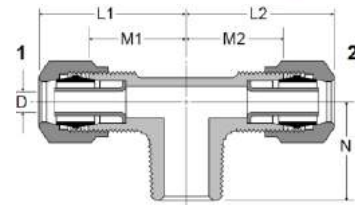
PART#	TUBE×NPTF	M	N	W.G	Price
1471-4A	1/4×1/8	.61	.66		
1471-4B	1/4×1/4	.68	.87		
1471-6×4B	3/8×1/4×1/4	.72×.68	.69		
1471-6B	3/8×1/4	.78	.90		
1471-6C	3/8×3/8	.81	.90		
1471-8C	1/2×3/8	.92	.96		
1471-8D	1/2×1/2	.92	1.07		
1471-10D	5/8×1/2	1.04	1.19		

Male Run Tee
(Ref.SAE.No 100424 BA)



PART#	TUBE×NPTF	M	N	W.G	Price
1472-4A	1/4×1/8	.61	.62		
1472-4B	1/4×1/4	.68	.82		
1472-6A	3/8×1/8	.72	.75		
1472-6×4B	3/8×1/4×1/4	.72×.67	.91		
1472-6B	3/8×1/4	.78	.91		
1472-6C	3/8×3/8	.83	.91		
1472-8B	1/2×1/4	.87	.92		
1472-8C	1/2×3/8	.92	.99		
1472-8D	1/2×1/2	1.02	1.02		
1472-10D	5/8×1/2	1.09	1.20		

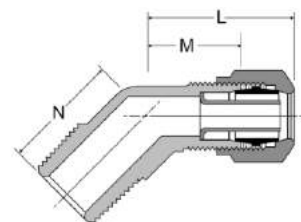
Male Branch Tee
(Ref.SAE.No 100425 BA)



76

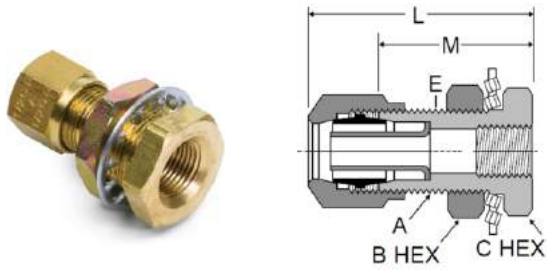
PART#	TUBE×NPTF	M	N	W.G	Price
1480-4A	1/4×1/8	.49	.63		
1480-4B	1/4×1/4	.60	.85		
1480-4C	1/4×3/8	.63	.89		
1480-6A	3/8×1/8	.71	.68		
1480-6B	3/8×1/4	.72	.84		
1480-6C	3/8×3/8	.76	.95		
1480-6D	3/8×1/2	.78	1.16		
1480-8B	1/2×1/4	.84	.94		
1480-8C	1/2×3/8	.84	.94		
1480-8D	1/2×1/2	.87	1.16		
1480-10C	5/8×3/8	.93	.98		
1480-10D	5/8×1/2	.93	1.16		

45° Male Elbow
(Ref.SAENO.100302 BA)



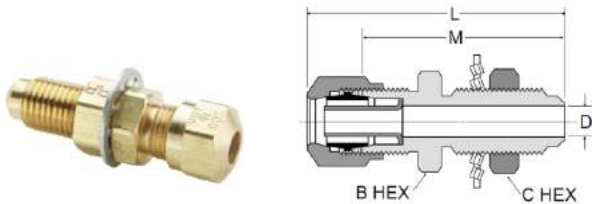
D.O.T AIR BRAKE NYLON TUBING

Bulkhead Union



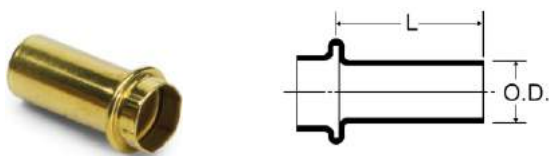
PART#	TUBE×NPTF	C	E	A	M	W.G
1495-6C	3/8×3/8	1-1/16	7/8-14	17/32-24	1.42	
1495-8C	1/2×3/8	1-1/16	7/8-14	11/16-20	1.57	

Bulkhead Union



PART#	TUBE×THREAD	B	C	M	D	W.G
1462BF-4	1/4×7/16-24	9/16	9/16	1.38	.137	
1462BF-6	3/8×17/32-24	11/16	3/4	1.62	.217	
1462BF-8	1/2×11/16-20	13/16	1"	1.88	.338	
1462BF-10	5/8×13/16-18	15/16	1"	2.02	.398	

Insert



PART#	TUBE O.D	L	O.D	W.G	Price
1484-4	1/4	.53	.163		
1484-6	3/8	.64	.245		
1484-8	1/2	.81	.370		
1484-10	5/8	.86	.434		
1484-12	3/4	1.04	.559		



Legines

D.O.T AIR BRAKE COPPER TUBING

D.O.T AIR BRAKE NYLON TUBING

Meets D.O.T.FMVSS 571.106
Meets SAE J246 & J1131
Use with Copper Tubing
Reusable



Fittings meet the requirements of the specific SAE standard called out in the product sections



European ROHS directives: 2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury, lead, cadmium,
hexavalent chromium, PBB and PBDE)



78

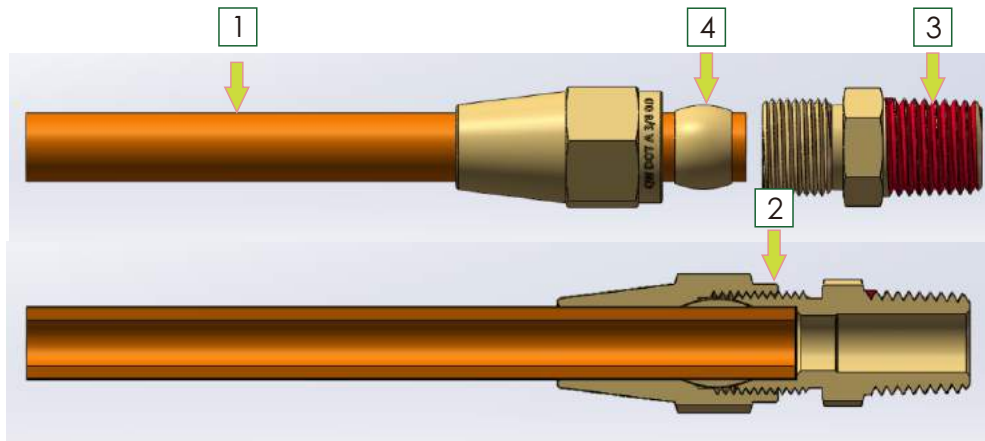


D.O.T.FMVSS 571.106

Fittings comply with the performance requirements



D.O.T AIR BRAKE COPPER TUBING



1 Tube 2 Thread size-B 3 Thread pre-coating glue 4 sleeve

TUBE O.D	1/4"	3/8"	1/2"	5/8"	3/4"
Thread size-B	7/16-24	17/32-24	11/16-20	13/16-18	1"-18

Typical Application:
Air brake systems.

Pressure:
Maximum operating pressure of 150 psi.

Vibration:
Fair resistance.

Temperature Range:
-65° F to +250° F (-53° C to +121° C) with copper tubing.

Material:
CA360 Brass.

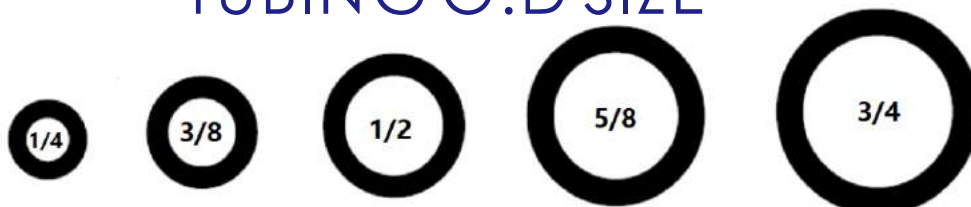
Used With:
Copper tubing in air brake systems.

Advantages:
Easy to assemble (no flaring). May be used with nylon tubing by replacing long nut and spherical sleeve with insert, rigid sleeve and nut.

Conformance:
Meets specifications and standards of SAE and DOT.

79

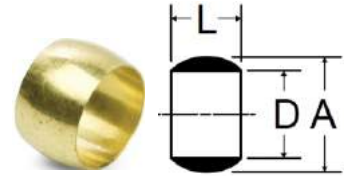
TUBING O.D SIZE



D.O.T AIR BRAKE COPPER TUBING

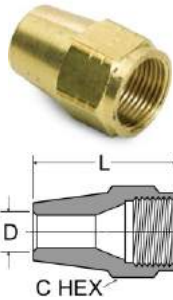
PART#	TUBE SIZE	A	D	L	W.G	Price
1360-4	1/4	.322	.255	.250		
1360-6	3/8	.461	.382	.310		
1360-8	1/2	.594	.507	.380		
1360-10	5/8	.734	.632	.440		
1360-12	3/4	.874	.758	.500		

Sleeve
(Ref.SAE No.120115 BA)



PART#	TUBE SIZE	C	D	L	W.G	Price
1361-4	1/4	9/16	.256	.75		
1361-6	3/8	5/8	.384	1.13		
1361-8	1/2	13/16	.509	1.25		
1361-10	5/8	15/16	.635	1.38		
1361-12	3/4	1-1/8	.760	1.56		

Nut
(Ref.SAE No.120111 BA)



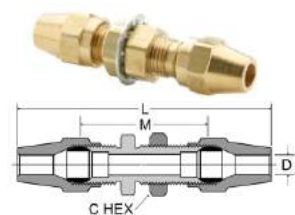
PART#	TUBE SIZE	C	D	M	W.G	Price
1362-4	1/4	7/16	.189	.83		
1362-6	3/8	9/16	.314	1.08		
1362-8	1/2	11/16	.405	1.29		
1362-10	5/8	13/16	.531	1.41		
1362-12	3/4	1"	.656	1.59		

Union
(Ref.SAE No.120101BA)



PART#	TUBE SIZE	C	D	M	W.G	Price
1374-4	1/4	9/16	.188	1.38		
1374-6	3/8	3/4	.314	1.62		
1374-8	1/2	1"	.408	1.88		

Bulkhead Union

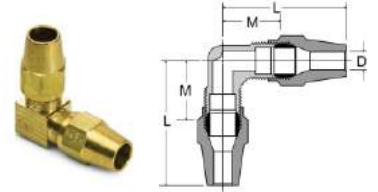


08

D.O.T AIR BRAKE COPPER TUBING

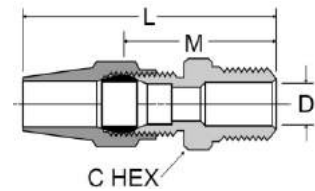
PART#	TUBE SIZE	M	W.G	Price
1365-4	1/4	.62		
1365-6	3/8	.70		
1365-8	1/2	.93		
1365-10	5/8	1.02		

Union Elbow
(Ref.SAE No.120201 BA)



PART#	TUBE×NPTF	C	D	M	W.G	Price
1368-4A	1/4×1/8	7/16	.219	.88		
1368-4B	1/4×1/4	9/16	.312	1.09		
1368-4C	1/4×3/8	11/16	.438	1.12		
1368-6A	3/8×1/8	9/16	.219	1.02		
1368-6B	3/8×1/4	9/16	.312	1.20		
1368-6C	3/8×3/8	11/16	.438	1.23		
1368-6D	3/8×1/2	7/8	.562	1.42		
1368-8B	1/2×1/4	11/16	.312	1.32		
1368-8C	1/2×3/8	11/16	.438	1.32		
1368-8D	1/2×1/2	7/8	.562	1.51		
1368-10C	5/8×3/8	13/16	.438	1.38		
1368-10D	5/8×1/2	7/8	.562	1.57		
1368-10E	5/8×3/4	1-1/16	.750	1.63		
1368-12D	3/4×1/2	1"	.562	1.67		
1368-12E	1/2×3/4	1-1/16	.750	1.70		

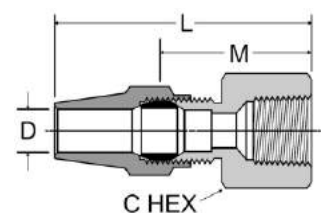
Male Connector
(Ref.SAE No.120102 BA)



81

PART#	TUBE×NPTF	C	D	M	W.G	Price
1366-4A	1/4×1/8	9/16	.188	.84		
1366-4B	1/4×1/4	11/16	.188	1.07		
1366-6A	3/8×1/8	9/16	.312	1.00		
1366-6B	3/8×1/4	11/16	.312	1.18		
1366-6C	3/8×3/8	7/8	.312	1.18		
1366-8C	1/2×3/8	7/8	.406	1.27		
1366-8D	1/2×1/2	1-1/16	.406	1.44		
1366-10C	5/8×3/8	7/8	.531	1.31		
1366-10D	5/8×1/2	1-1/16	.531	1.50		

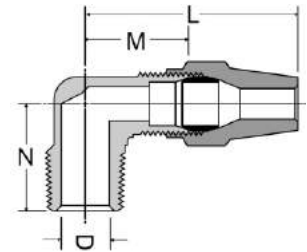
Female Connector
(Ref.SAE No.120103 BA)



D.O.T AIR BRAKE COPPER TUBING

PART#	TUBE×NPTF	M	N	D	W.G	Price
1369-4A	1/4×1/8	.62	.66	.219		
1369-4B	1/4×1/4	.68	.87	.312		
1369-4C	1/4×3/8	.73	.86	.438		
1369-6A	3/8×1/8	.73	.75	.562		
1369-6B	3/8×1/4	.79	.92	.312		
1369-6C	3/8×3/8	.84	.91	.438		
1369-6D	3/8×1/2	.94	1.10	.562		
1369-8B	1/2×1/4	.86	.99	.312		
1369-8C	1/2×3/8	.93	.99	.438		
1369-8D	1/2×1/2	1.03	1.18	.562		
1369-10C	5/8×3/8	1.00	1.05	.438		
1369-10D	5/8×1/2	1.09	1.24	.562		
1369-12D	3/4×1/2	1.19	1.32	.562		
1369-12E	3/4×3/4	1.26	1.32	.760		

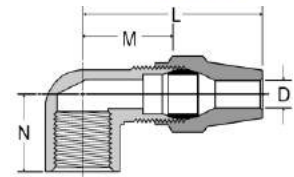
90° Male Elbow
(Ref.SAE No.120202 BA)



82

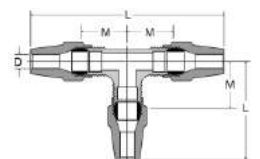
PART#	TUBE×NPTF	M	N	D	W.G	Price
1370-4A	1/4×1/8	.69	.52	.189		
1370-4B	1/4×1/4	.78	.71	.189		
1370-6A	3/8×1/8	.83	.59	.314		
1370-6B	3/8×1/4	.89	.77	.314		
1370-6C	3/8×3/8	.93	.77	.314		
1370-8C	1/2×3/8	1.03	.82	.408		
1370-8D	1/2×1/2	1.13	1.01	.408		

90° Female Elbow
(Ref.SAE No.120203 BA)



PART#	TUBE SIZE	M	D	W.G	Price
1364-4	1/4	.62	.189		
1364-6	3/8	.78	.314		
1364-8	1/2	.90	.408		
1364-10	5/8	1.09	.533		

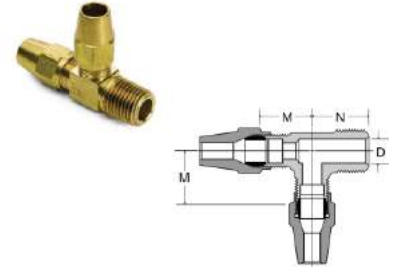
Union Tee
(Ref.SAE No.120401 BA)



D.O.T AIR BRAKE COPPER TUBING

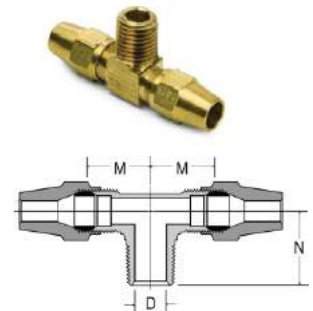
PART#	TUBE×NPTF	M	N	D	W.G	Price
1371-4A	1/4×1/8	.62	.66	.219		
1371-4B	1/4×1/4	.68	.87	.312		
1371-6B	3/8×1/4	.703	.86	.312		
1371-6C	3/8×3/8	.71	.89	.438		
1371-8C	1/2×3/8	.93	.89	.438		
1371-8D	1/2×1/2	1.03	1.18	.562		

Male Run Tee
(Ref.SAE.No 120424 BA)



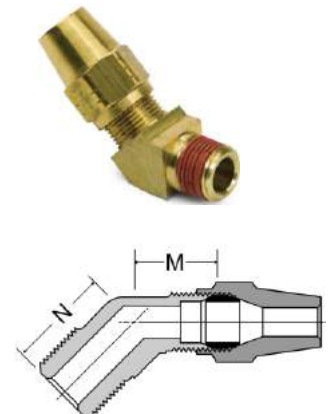
PART#	TUBE×NPTF	M	N	D	W.G	Price
1372-4A	1/4×1/8	.62	.66	.219		
1372-4B	1/4×1/4	.68	.87	.312		
1372-8A	3/8×1/8	.72	.75	.219		
1372-6B	3/8×1/4	.79	.92	.312		
1372-6C	3/8×3/8	.84	.91	.438		
1372-8C	1/2×3/8	.93	.99	.438		
1372-8D	1/2×1/2	1.03	1.18	.562		

Male Branch Tee
(Ref.SAE.No 120425 BA)



PART#	TUBE×NPTF	M	N	W.G	Price
1380-4A	1/4×1/8	.49	.63		
1380-4B	1/4×1/4	.60	.85		
1380-6A	3/8×1/8	.71	.68		
1380-6B	3/8×1/4	.71	.85		
1380-6C	3/8×3/8	.75	.94		
1380-6D	3/8×1/2	.76	1.20		
1380-8C	1/2×3/8	.84	.94		
1380-8D	1/2×1/2	.87	1.16		
1380-10C	5/8×3/8	.93	.98		
1380-10D	5/8×1/2	.93	1.16		

45° Male Elbow
(Ref.SAE NO.120302 BA)





Legines

D.O.T AIR BRAKE HOSE/ENDS

D.O.T AIR BRAKE HOSE/ENDS

Meets D.O.T.FMVSS 571.106
Meets SAE Air Brake
Hose



European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)

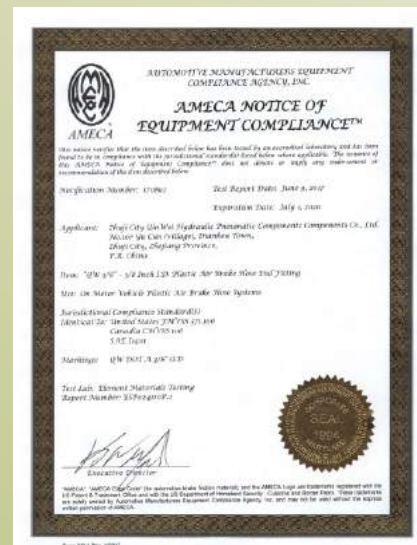


D.O.T.FMVSS 571.106

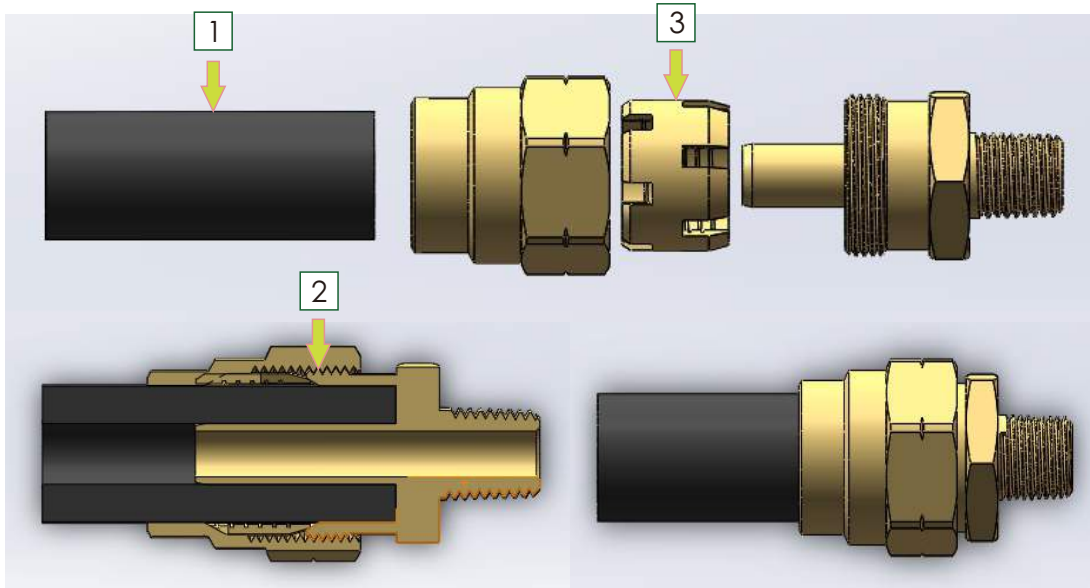
Fittings comply with the performance requirements



84



D.O.T AIR BRAKE HOSE/ENDS



1 Rubber Tube

2 Thread size-B

3 sleeve

TUBE I.D	3/8"	1/2"
Thread size-B	17/32-24	11/16-20

58

Typical Application:

Air brake hose connections

Pressure:

Maximum operating pressure of 125 psi.

Vibration:

Fair resistance.

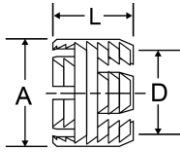
Temperature Range:

-40° F to +120° F ,with copper tubing.

Material:

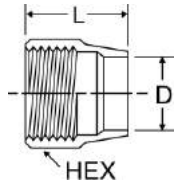
CA360 Brass.

Sleeve



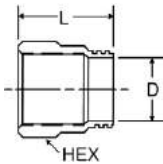
PART#	TUBE SIZE	A	D	L	W.G	Price
60RB-6	3/8I.D	.90	.78	.69		
60RB-8	1/2I.D	1.03	.92	.69		

Nut



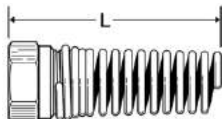
PART#	TUBE SIZE	C	D	L	W.G	Price
61RB-6	3/8I.D	1-1/16	.80	1.19		
61RB-8	1/2I.D	1-1/4	.92	1.20		

Spring Guard Nut



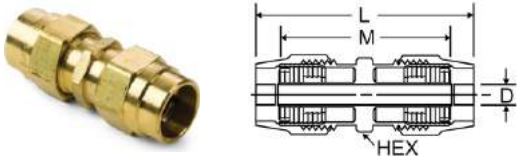
PART#	TUBE SIZE	C	D	L	W.G	Price
61RBSG-6	3/8I.D	1-1/16	.80	1.19		
61RBSG-8	1/2I.D	1-1/4	.92	1.20		

Air Brake Hose Nut & Attached Spring



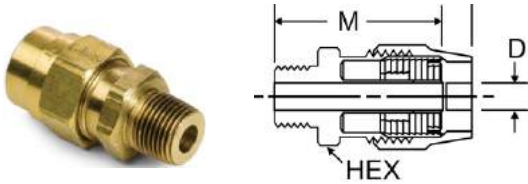
PART#	TUBE SIZE	L	W.G	Price
67RBSG-6	3/8I.D	3.65		
67RBSG-8	1/2I.D	3.75		

Union



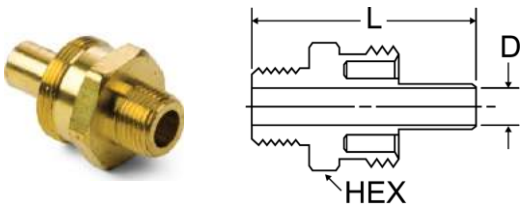
PART#	TUBE SIZE	C	D	M	W.G	Price
62RB-6	3/8	1-1/16	.281	2.55		
62RB-8	1/2	1-1/4	.390	2.55		

Male Connector



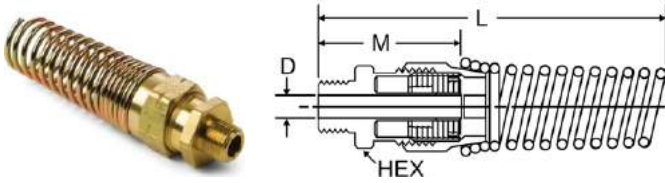
PART#	TUBE×NPTF	C	D	M	W.G	Price
68RB-6B	3/8×1/4	31/32	.281	1.91		
68RB-6C	3/8×3/8	31/32	.281	1.91		
68RB-6D	3/8×1/2	31/32	.281	2.06		
68RB-8C	1/2×3/8	1-1/8	.390	1.91		
68RB-8D	1/2×1/2	1-1/8	.390	2.07		

Male Connector BODY



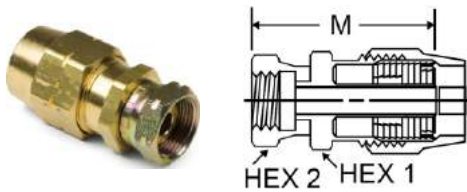
PART#	TUBE×NPTF	C	D	M	W.G	Price
68RBN-6B	3/8×1/4	31/32	.281	1.91		
68RBN-6C	3/8×3/8	31/32	.281	1.91		
68RBN-6D	3/8×1/2	31/32	.281	2.02		
68RBN-8C	1/2×3/8	1-1/8	.390	1.91		
68RBN-8D	1/2×1/2	1-1/8	.390	2.07		

Male Connector & Attached Spring



PART#	TUBE×NPTF	C	D	M	W.G	Price
68RBSG-6B	3/8×1/4	31/32	.312	1.91		
68RBSG-6C	3/8×3/8	31/32	.438	1.91		
68RBSG-6D	3/8×1/2	31/32	.562	2.06		
68RBSG-8C	1/2×3/8	1-1/8	.438	1.91		
68RBSG-8D	1/2×1/2	1-1/8	.562	2.07		

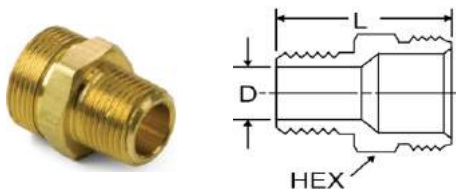
Female Swivel connector



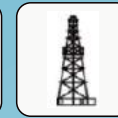
PART#	TUBE×UNF	C	C2	M	W.G	Price
66RBSV-6	3/8×3/4-20	31/32	7/8	1.96		
66RBSV-8	1/2×7/8-20	1-1/8	1"	2.10		



Adapter



PART#	TUBE×NPTF	C	D	L	W.G	Price
76RB-6B	3/8×1/4	3/4	.312	1.14		
76RB-6C	3/8×3/8	3/4	.438	1.14		
76RB-6D	3/8×1/2	3/4	.562	1.37		
76RB-8C	1/2×3/8	7/8	.438	1.26		
76RB-8D	1/2×1/2	7/8	.562	1.38		



Legines

Transmission Fittings

Transmission Fittings

Brass Body
D.O.T Approved with Staked in Tube Support
3/16" & 5/32" Tube Size

Markets

Heavy Duty Truck

Applications

Air Shift Transmissions
Seat Controls
Dash Controls

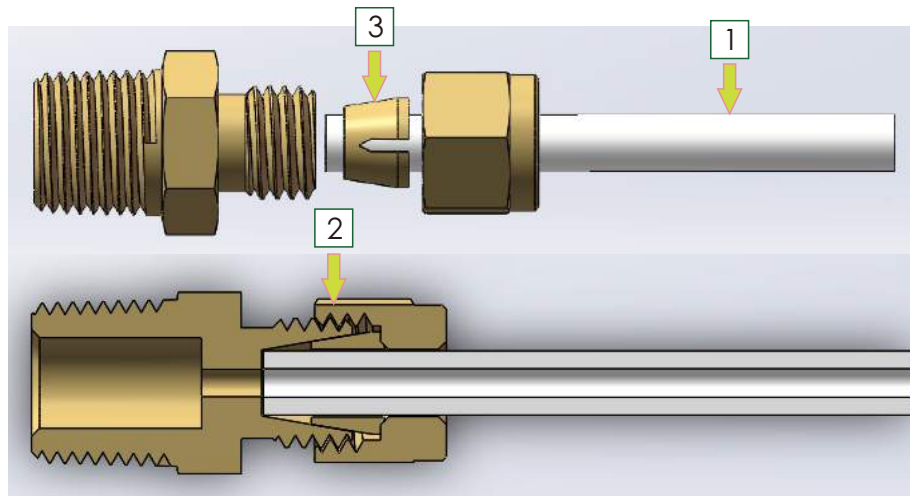


D.O.T.FMVSS 571.106

Fittings comply with the performance requirements



69



1 Tube 2 Thread size-B 3 sleeve

TUBE I.D	1/8"	5/32"
Thread size-B	5/16-24	5/16-24

Typical Application:

Air Shift Transmissions Seat Controls Dash Controls

Pressure:

Max imum operating pressure of 150psi.

Vibration:

Fair resistance.

Temperature Range:

-40° F to +200° F ,with copper tubing.

Compatible Tubing:

S A E J844 Type A & B nylon tubing

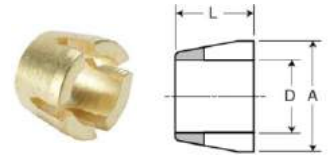
Material:

CA360 Brass.

Transmission Fittings

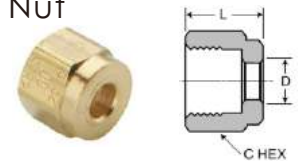
PART#	Tube Size	A	D	L	W.G	Price
60TF-2	1/8	.235	.130	.17		
60TF-5/32	5/32	.251	.165	.18		

Sleeve



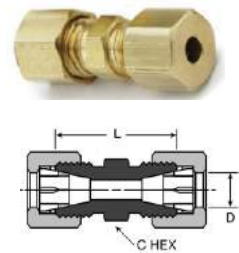
PART#	Tube Size	C	D	L	W.G	Price
61TF-2	1/8	3/8	.133	.32		
61TF-5/32	5/32	3/8	.163	.32		

Nut



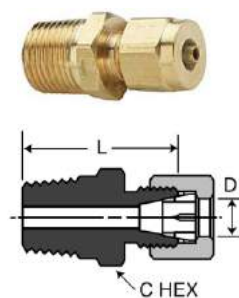
PART#	Tube Size	C	D	L	W.G	Price
62TF-2	1/8	5/16	.133	.68		
62TF-5/32	5/32	5/16	.163	.68		

Union



PART#	Tube Size x Thread	C	D	L	W.G	Price
68TF-2-1	1/8 x 1/16	11/32	.133	.66		
68TF-2-2	1/8 x 1/8	7/16	.133	.78		
68TF-5/32-1	5/32 x 1/16	11/32	.163	.66		
68TF-5/32-2	5/32 x 1/8	7/16	.163	.78		

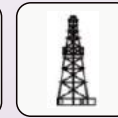
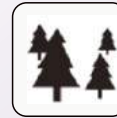
Male Connector



PART#	Tube Size x Thread	M	N	D	W.G	Price
69TF-2-2	1/8 x 1/8	.66	.61	.133		
69TF-5/32-2	5/32 x 1/8	.66	.61	.163		

Male Elbow





Legines

D.O.T Air Brake Hose Assemblies

Air Brake Hose Assemblies

Meets or exceeds SAE J1402-Type A
Meets or exceeds DOT FMVSS NO.106-Brake hose,
49DFR 571.106



Air Brake Hose Assemblies Fittings



92

Slider Hose Assemblies



- SAE J1402-Type A rubber air brake hose
- Factory crimped swivel hose fittings with adapters
- Detachable frame fittings with 7/8"-20 mounting threads
- Integral NT air brake fittings for nylon tubing
- Available with or without spring guards
- All assemblies meet or exceed DOT FMVSS NO.106,49CFR 571-106

Slider Hose Assemblies

Part Number	Fittings	Hose I.D	Length
LE-38108	3/8"O.D Tube Fittings with spring Guard	3/8"	108"
LE-38120	3/8"O.D Tube Fittings with spring Guard	3/8"	120"
LE-38126	3/8"O.D Tube Fittings with spring Guard	3/8"	126"
LE-38088	3/8"O.D Tube Fittings with spring Guard	3/8"	98"
LE-38112	3/8"O.D Tube Fittings with spring Guard	3/8"	112"

Single Swivel End Air Brake Hose Assemblies & Air Brake Hose Assemblies

- Factory tested to ensure quality
- Meets or exceeds SAE J1402-TypeA
- Meets or exceeds DOT FMVSS NO.106-Brake hose,49DFR 571.106



Air Brake Hose Assemblies

Length	3/8"HoseX 1/4NPTF	3/8"HoseX 3/8NPTF	1/2"HoseX 3/8NPTF
12"	LE-381412		
14"	LE-381414	LE-383814	LE-123814
18"	LE-381418	LE-383818	LE-123818
20"	LE-381420	LE-383820	LE-123820
22"	LE-381422	LE-383822	LE-123822
24"	LE-381424	LE-383824	LE-123824
26"	LE-381426	LE-383826	LE-123826
28"	LE-381428	LE-383828	LE-123828
30"	LE-381430	LE-383830	LE-123830
32"	LE-381432	LE-383832	LE-123832
34"	LE-381434	LE-383834	LE-123834
36"	LE-381436	LE-383836	LE-123836
40"	LE-381440	LE-383840	LE-123840
42"	LE-381442	LE-383842	LE-123842
44"	LE-381444	LE-383844	LE-123844
46"	LE-381446	LE-383846	LE-123846
48"	LE-381448	LE-383848	LE-123848
54"	LE-381454	LE-383854	LE-123854
60"	LE-381460	LE-383860	LE-123860
66"	LE-381466	LE-383866	LE-123866
72"	LE-381472	LE-383872	LE-123872
84"			LE-123884

HEAVY DUTY COILED AIR ASSEMBLIES



- Applications: Tractor to trailer
- Tube: Coiled Nylon Air Brake Tubing
- Temperature Range: -70 F +200 F (-57 C to +93 C)
- Meets SAE J844 and J1131 specifications
- Meets FMVSS 571.106 specifications

96

Heavy Duty Couled Air Assemblies

Part Number	Tube O.D		Length
LENL-121212	1/2"	BLUD	12"
LENL-121212	1/2"	RED	12"
LENL-121215	1/2"	BLUD	15"
LENL-121215	1/2"	RED	15"
LENL-121220	1/2"	BLUD	20"
LENL-121220	1/2"	RED	20"

*Blue for Service, Red for Emergency

Air Brake Hose Assemblies Fittings

*Select any part assembly as required Air Brake Hose Assemblies

Prar Number	Hose I.D	Pipe Thread
LE-3814	3/8"	1/4NPTF
LE-3838	3/8"	3/8NPTF
LE-1238	1/2"	3/8NPTF
LE-1212	1/2"	1/2NPTF



Prar Number	Hose I.D	Thread
LE-S3834	3/8"	3/4NPTF
LE-S1234	1/2"	3/4NPTF



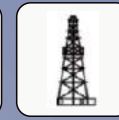
*For use with -76RB

Prar Number	Hose I.D	Pipe Thread
LE-SV3814	3/8"	1/4NPTF
LE-SV3838	3/8"	3/8NPTF
LE-SV1238	1/2"	3/8NPTF
LE-SV1212	1/2"	1/2NPTF



Prar Number	Hose I.D	Tube O.D
LE-B3834	3/8"	3/8"





Legines

GARDEN HOSE

Garden Hose Fittings

Heavy Duty Construction
Use with Hose Clamp
Coupler option



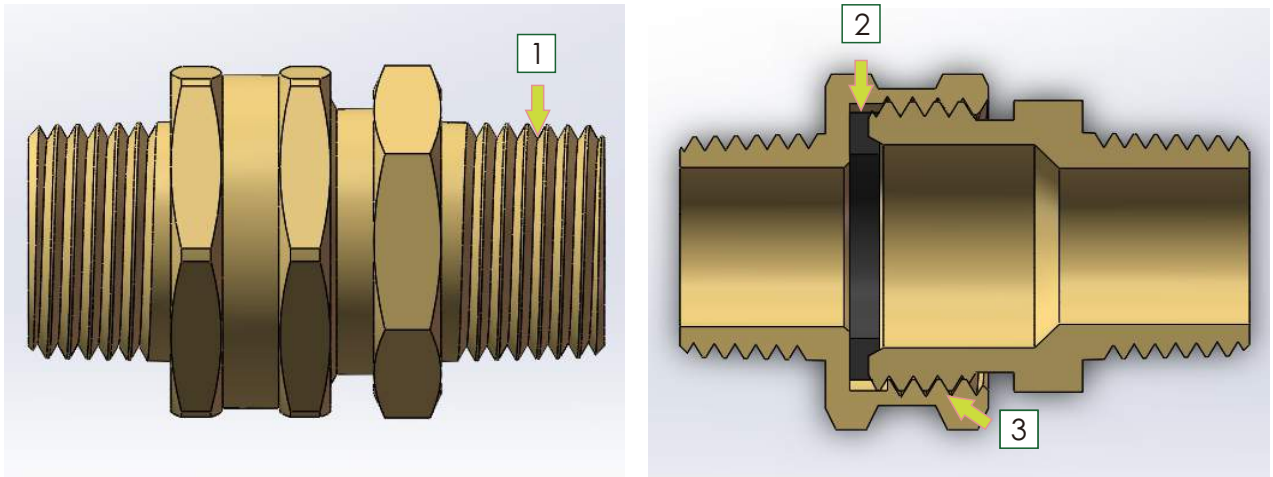
Fittings meet the requirements of the specific SAE standard called out in the product sections



European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)



GARDEN HOSE FITTINGS



1 pipe thread 2 'O' -ring 3 outside diameter of 1.0625 and 11-1/2"threads per inch

Typical Application:

Connect garden hose to other garden.

Pressure:

UP to 150PSI

Vibration:

Fair resistance.

Temperature Range:

Working temperature from +35° F TO +100° F AT 75PSI

Material:

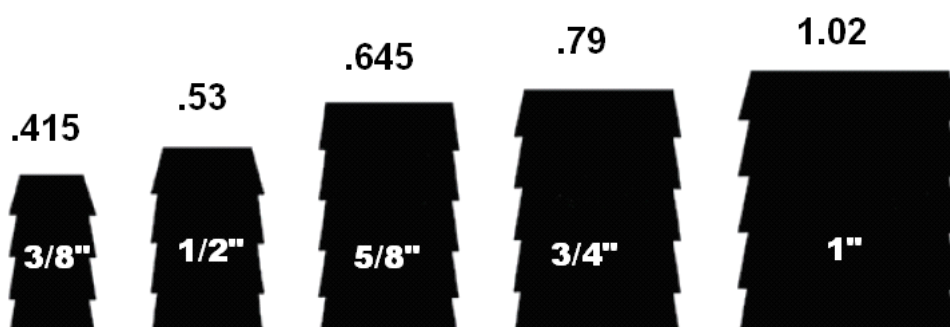
CA 360 Brass for Barstock fittings.CA377 Brass for forged fittings

NOTE:

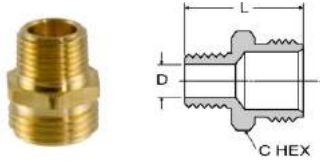
1:All female connector ends should have rubber washer inserted prior to usage

2:For AB1953 Compliant Fitting(Lead Free)

Actual Profile of Garde Hose Barbs

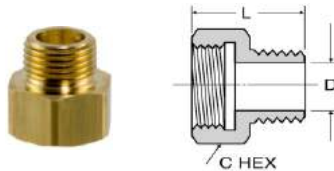


Male Garden Hose Adapters



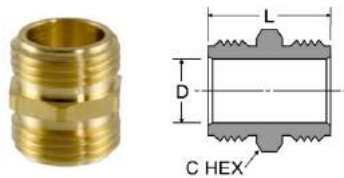
PART#	MGH×MALE NPTF	C	D	L	W.G	Price
69GH-12-4	3/4×1/4	1-1/16	.410	1.25		
69GH-12-6	3/4×3/8	1-1/16	.438	1.25		
70GH-12-8	3/4×1/2	1-1/16	.562	1.32		
71GH-12-12	3/4×3/4	1-1/16	.750	1.35		

Female Garden Hose Adapters



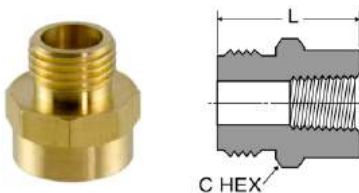
PART#	FGH×MALE NPTF	C	D	L	W.G	Price
82GH-12-8	3/4×1/2	1-3/16	.562	1.20		
83GH-12-12	3/4×3/4	1-3/16	.750	1.22		

Male Garden Hose Adapters



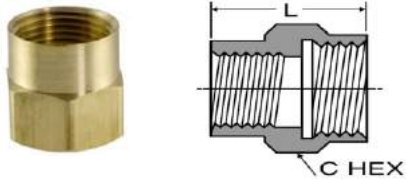
PART#	HOSE THREAD	C	D	L	W.G	Price
75GH-12-12	3/4	1-1/16	.750	1.25		

Female Garden Hose Adapters



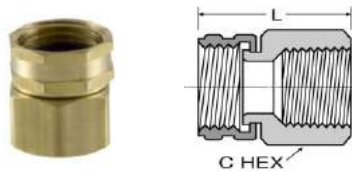
PART#	MGH×Female NPTF	C	L	W.G	Price
78GH-12-4	3/4×1/4	1-1/16	0.75		
79GH-12-6	3/4×3/8	1-1/16	0.75		
80GH-12-8	3/4×1/2	1-1/16	0.75		
81GH-12-12	3/4×3/4	1-1/8	1.12		

Female Garden Hose Adapters



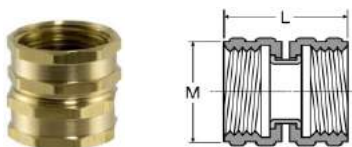
PART#	MGH×Female NPTF	C	L	W.G	Price
98GH-12-8	3/4×1/2	1-1/16	1.14		
99GH-12-12	3/4×3/4	1-1/8	1.17		

Female Garden Hose Swivel Adapters



PART#	FGH×Female NPTF	C	L	W.G	Price
98GHSV-12-8	3/4×1/2	1"	1.20		
99GHSV-12-12	3/4×3/4	1-1/8	1.20		

Female Garden Hose Swivel Adapters



PART#	FGH×FGH	C	L	W.G	Price
101GHSV-12	3/4×3/4	1-1/8	1.10		

Garden Hose Octagon Nuts



PART#	HOSE SIZE	C	D	L	W.G	Price
94GH-12	3/4	HEX:1-1/8	.808	.63		
95GH-12	3/4	Knurled:1-1/8	.808	.57		

HOSE BARB

PART#	I.D HOSE×NPSM	C	D	L	W.G	Price
**53GH-8-12	1/2×3/4	1-1/16	.403	1.56		
53GHL-8-12	1/2×3/4	1-1/16	.403	1.88		
*53GHLL-8-12	1/2×3/4	1-1/16	.403	2.72		
**54GH-10-12	5/8×3/4	1-1/16	.500	1.56		
54GHL-10-12	5/8×3/4	1-1/16	.500	1.88		
*54GHLL-10-12	5/8×3/4	1-1/16	.500	2.72		
**55GH-12-12	3/4×3/4	1-1/16	.625	1.56		
55GHL-12-12	3/4×3/4	1-1/16	.625	1.88		
*55GHLL-12-12	3/4×3/4	1-1/16	.625	2.72		

*LONG-2"SHANK
**LIGHT

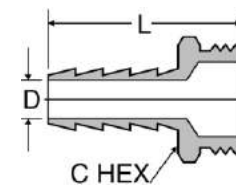
PART#	I.D HOSE×NPSM	C	D	L	W.G	Price
**90GH-8-12	1/2×3/4	1-1/8	.403	1.47		
90GHL-8-12	1/2×3/4	1-1/8	.403	1.82		
*90GHLL-8-12	1/2×3/4	1-1/8	.403	2.55		
**90GH-10-12	5/8×3/4	1-1/8	.500	1.47		
90GHL-10-12	5/8×3/4	1-1/8	.500	1.82		
*90GHLL-10-12	5/8×3/4	1-1/8	.500	2.55		
**90GH-12-12	3/4×3/4	1-1/8	.625	1.47		
90GHL-12-12	3/4×3/4	1-1/8	.625	1.82		
*90GHLL-12-12	3/4×3/4	1-1/8	.625	2.55		

*LONG-2"SHANK
**LIGHT

Garden Hose Male End Only



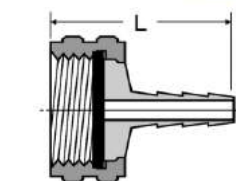
*2"SHANK



Garden Hose Female End Only

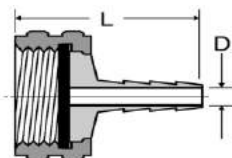


*2"SHANK



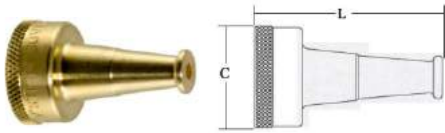
101

Garden Hose Female End Only Short Shank Knurled NUT

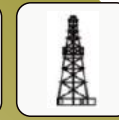


PART#	I.D HOSE×NPSM	C	D	L	W.G	Price
K90GH-8-12	1/2×3/4	1-1/8	.403	1.47		
K90GH-10-12	5/8×3/4	1-1/8	.500	1.47		
K90GH-12-12	3/4×3/4	1-1/8	.625	1.47		

Garden Hose Spray Nozzles, Sweepe



PART#	NPSM	C	L	W.G	Price
PSN76	3/4	1-1/8	1.47		



Legines

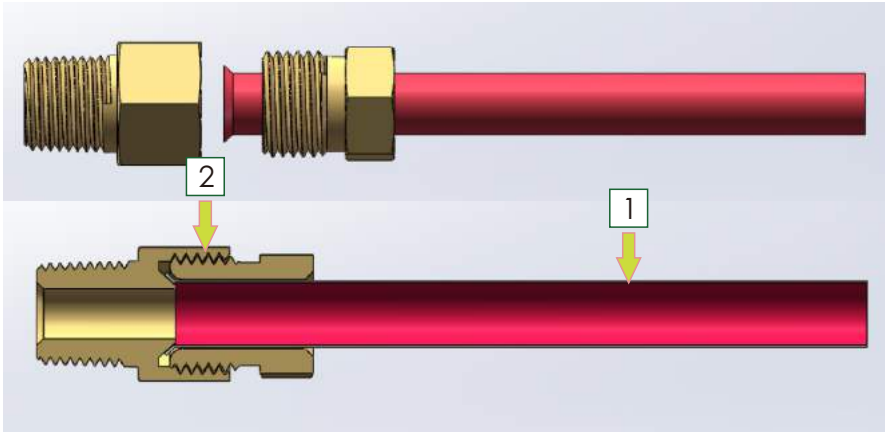
INVERTED FLARE

INVERTED FLARE

Typical Application
Hydraulic brake, power steering, fuel lines and transmission cooler lines, LP and natural gas



Inverted Flare



1 Tube

2 Thread size-B

TUBE O.D	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
Thread size-B	5/16-28	3/8-24	7/16-24	1/2-20	5/8-24	3/4-18	7/8-18	1"-1/16-18

PRESSURE RANGE		
PSI	TUBE O.D.(IN)	TUBE WALL(IN)
2800	1/8	.030
1900	3/16	.030
1400	1/4	.030
1200	5/16	.032
1000	3/8	.032
750	1/2	.032
650	5/8	.035
550	3/4	.035

MATERIALS OF CONSTRUCTION	
FITTINGS:	BRASS CA3600
NUTS:	BRASS AND ZINC CHROMATE STEEL

SPECIFICATIONS	
TEMPERATURE RANGE	FROM -65° TO +250°
OPERATING FLUID	WATER, AIR INERT AND NON-COMBUSTIBLE GASSES COMPATIBLE WITH MATERIALS OF CONSTRUCTION
NOTE:	FOR OTHER TYPES OF FLUIDS OR GASSES, PLEASE CONSULT FACTORY

104

Built to resist mechanical pullout this fitting can be assembled and disassembled repeatedly. Listed with Underwriter’s Laboratories for flammable liquid and gas. Meets functional requirements of SAE J512.

Assembly Instructions

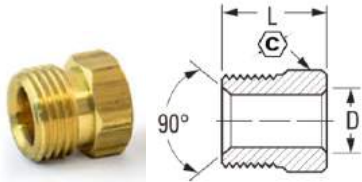
1. Cut tubing squarely and clean tube end thoroughly to remove burrs.
2. Place nut onto tube. Place threaded end of nut toward end of tube.
3. On thin wall copper, welded or brazed tubing, use double flare to prevent pinch-off or cracked flares.
4. Clamp tube flare between nut and flare seat of body by screwing nut on finger-tight. Tighten with a wrench an additional 1/4 turn for a metal-to-metal seal.

Note: The seat dimensions are predicated on practical threading limitations and use of these fittings with double flared tubing.

Inverted Flare

PART#	O.D	C	D	L	W.G	Price
100-3	3/16	3/8	.196	.56		
100-4	1/4	7/16	.259	.56		
100-5	5/16	1/2	.321	.62		
100-6	3/8	5/8	.384	.66		
100-8	1/2	3/4	.508	.74		

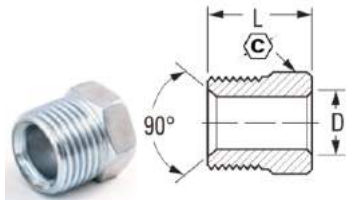
Tube Nut



{BRASS}
{Ref.SAE No.040110}

PART#	O.D	C	D	L	W.G	Price
105-3	3/16	5/16	.196	.56		
105-4	1/4	3/8	.259	.56		
105-5	5/16	7/16	.321	.62		
105-6	3/8	5/8	.384	.66		
105-8	1/2	3/4	.508	.74		
105-10	5/8	7/8	.632	.80		
105-12	3/4	1-1/16	.757	.88		

Tube Nut

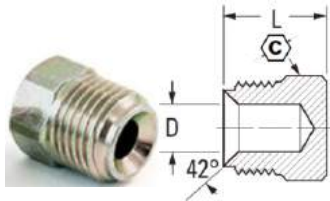


{STEEL}
{Ref.SAE No.040110}

105

PART#	O.D	C	D	L	W.G	Price
131-3	3/16	3/8	.188	.53		
131-4	1/4	7/16	.188	.54		
131-5	5/16	1/2	.250	.59		
131-6	3/8	5/8	.312	.66		

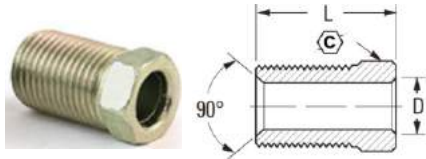
Pulg



{STEEL}
{Ref.SAE No.040109}

PART#	O.D	C	D	L	W.G	Price
105L-3	3/16	3/8	.196	.844		
105L-4	1/4	7/16	.257	.812		

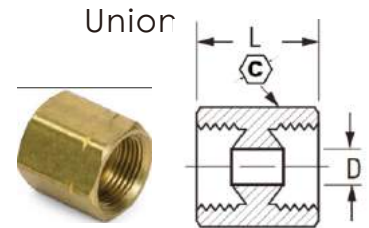
Tube Long Nut



{STEEL}

Inverted Flare

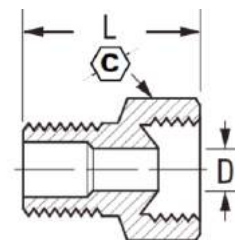
PART#	O.D	C	D	L	W.G	Price
302-2	1/8	13/32	0.78	.59		
302-3	3/16	15/32	.125	.62		
302-4	1/4	17/32	.188	.62		
302-5	5/16	19/32	.219	.70		
302-6	3/8	3/4	.281	.80		
302-8	1/2	29/32	.406	.91		



{Ref.SAE No.040101}

PART#	O.D×THREAD	C	D	L	W.G	Price
202-2A	1/8×1/8	13/32	.078	.62		
202-3A	3/16×1/8	15/32	.125	.70		
202-4A	1/4×1/8	17/32	.188	.74		
202-4B	1/4×1/4	9/16	.188	.89		
202-5A	5/16×1/8	19/32	.219	.79		
202-5B	5/16×1/4	19/32	.220	.98		
202-6A	3/8×1/8	3/4	.281	.89		
202-6B	3/8×1/4	3/4	.281	1.03		
202-6C	3/8×3/8	3/4	.281	1.01		
202-8B	1/2×1/4	29/32	.406	1.08		
202-8C	1/2×3/8	29/32	.406	1.07		
202-8D	1/2×1/2	29/32	.406	1.26		
202-10D	5/8×1/2	1-1/16	.531	1.32		
202-12E	3/4×3/4	1-1/4	.625	1.39		

Male Connector

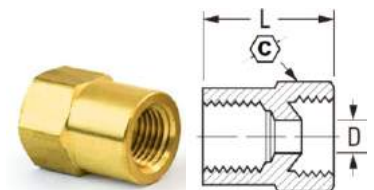


{Ref.SAE No.040102}

106

PART#	O.D×THREAD	C	D	L	W.G	Price
252-3A	3/16×1/8	15/32	.125	.62		
252-4A	1/4×1/8	17/32	.188	.62		
252-5A	5/16×1/8	15	.219	.70		
252-6B	3/8×1/4	3/4	.281	.80		
252-8C	1/2×3/8	29/32	.406	.91		

Female Connector

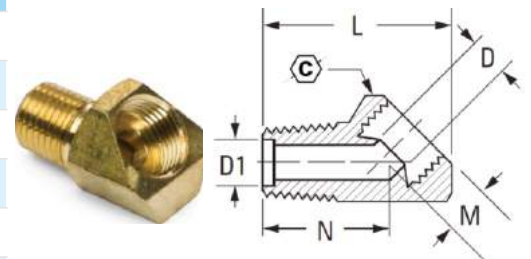


{Ref.SAE No.040103}

Inverted Flare

PART#	O.D×THREAD	C	D	L	W.G	Price
352-3A	3/16×1/8	17/32	.125	.88		
352-4A	1/4×1/8	9/16	.188	.94		
352-5A	5/16×1/8	5/8	.219	1.00		
352-5B	5/16×1/4	5/8	.219	1.16		
352-6B	3/8×3/8	25/32	.281	1.34		
352-8C	1/2×3/8	7/8	.406	1.44		

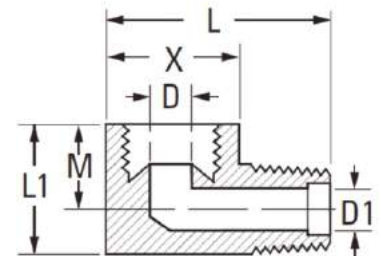
45° Male Elbow



{Ref.SAE No.040302}

PART#	O.D×THREAD	X	D	L	W.G	Price
402-2A	1/8×1/8	.42	.078	.80		
402-3A	3/16×1/8	.47	.125	.70		
402-4A	1/4×1/8	.53	.188	.74		
402-4B	1/4×1/4	.56	.188	.89		
402-5A	5/16×1/8	.59	.219	.79		
402-5B	5/16×1/4	.59	.220	.98		
402-6A	3/8×1/8	.76	.281	.89		
402-6B	3/8×1/4	.76	.281	1.03		
402-6C	3/8×3/8	.75	.281	1.01		
402-8B	1/2×1/4	.91	.406	1.08		
402-8C	1/2×3/8	.92	.406	1.07		
402-8D	1/2×1/2	.91	.406	1.26		
402-10D	5/8×1/2	1.06	.531	1.32		

90° Male Elbow

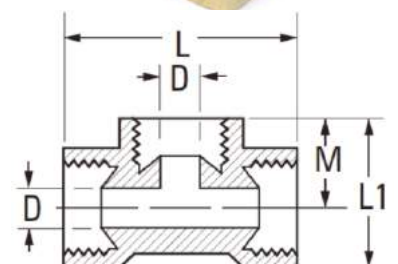


{Ref.SAE No.040202}

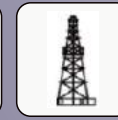
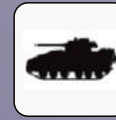
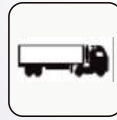
107

PART#	O.D	D	L	M	W.G	Price
702-2	1/8	.078	.94	.330		
702-3	3/16	.125	1.09	.390		
702-4	1/4	.188	1.13	.420		
702-5	5/16	.219	1.25	.450		
702-6	3/8	.281	1.48	.560		
702-8	1/2	.406	1.76	.937		

Union Tee



{Ref.SAE No.040401}



Legines

POL BOTTLEGAS

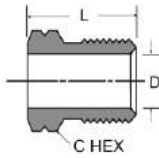
POL (Bottle Gas)

- Use with Polyethylene Tubing
- Economical
- One-piece
- Compact
- Reusable



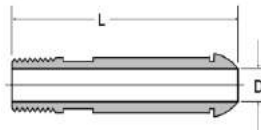
Used for making connections in LP gas systems
POL Thread 880-14LH

POL Nut



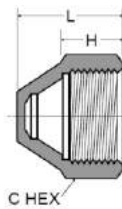
PART#	THREAD	C	D	L	W.G	Price
2001	7/8-14	7/8	.567	.996		

POL Tailpiece



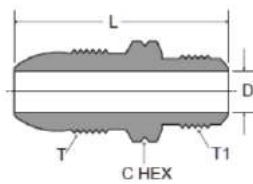
PART#	THREAD	D	L	W.G	Price
2002	7/8-14	.25	2.54		

POL CAP



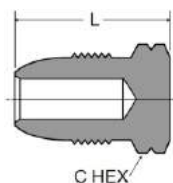
PART#	THREAD	C	H	L	W.G	Price
2004	.880-14LH	1-1/8	.63	1.12		

CONNECTORS

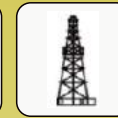


PART#	T	T1	C	L	D	W.G	Price
2005	.880-14LH	5/8-18	7/8	1.97	.281		
2006	.880-14LH	3/4-16	7/8	2.09	.281		
2007	.880-14LH	7/8-14	7/8	2.22	.281		

POL PLUG



PART#	THREAD	C	L	W.G	Price
2014	.880-14LH	7/8	1.34		



Legines

DRAIN COCKS

Garden Hose Fittings
Heavy Duty Construction
Use with Hose Clamp
Coupler option

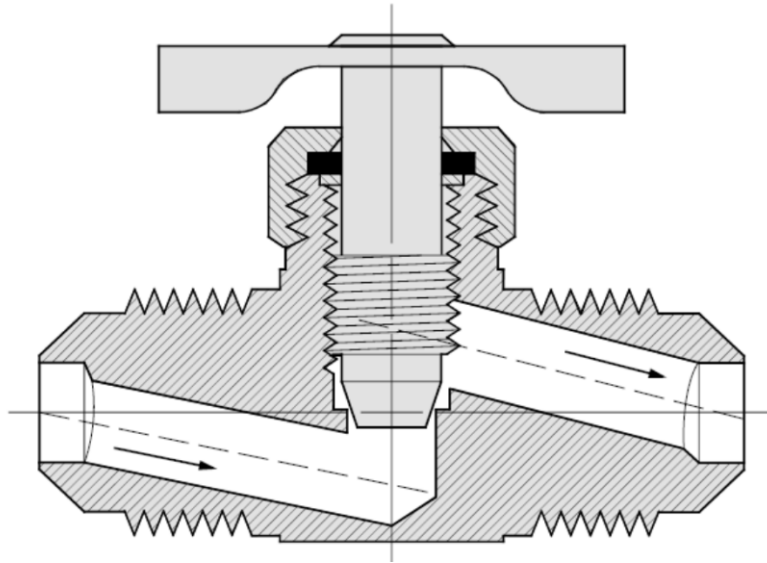


European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)



110

Drain Cocks/ Ground Plug Shutoff

**Typical Application:**

Instrumentation, hydraulic and pneumatic systems.

Pressure:

150psi maximum. (Does not include plastic tubing)

Temperature Range:

-65° F to +250° F (-53° C to +121° C) with metal tubing For valves using compatible tubing ,refer to tubing temperature range

Material:

Brass bodies, steel handles except where noted.

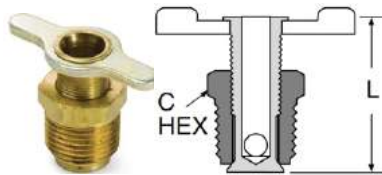
Polyline valves have brass bodies and brass handles

Used With:

copper, aluminum, steel and plastic tubing where applicable.

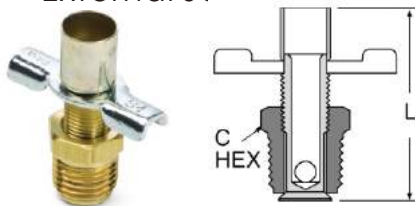
DRAIN COCKS

External Seal Drain Cock



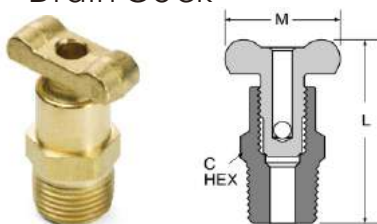
PART#	PIPE THREAD	C	L	W.G	Price
DC-100A	1/8	7/16	.85		
DC-100B	1/4	9/16	1.00		
DC-100C	3/8	11/16	1.22		

External Seal Drain Cock



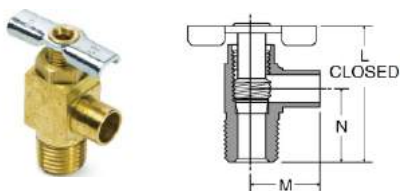
PART#	PIPE THREAD	C	L	W.G	Price
DC-101A	1/8	7/16	1.50		
DC-101B	1/4	9/16	1.70		

Drain Cock



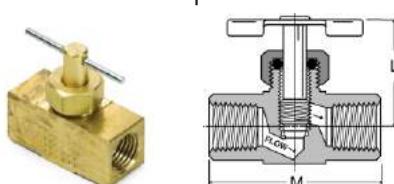
PART#	PIPE THREAD	C	M	L	W.G	Price
DC-103A	1/8	5/8	1.0	1.41		
DC-103B	1/4	5/8	1.16	1.54		
DC-103C	3/8	11/16	1.16	1.63		

Bib Drain Valve



PART#	PIPE THREAD	M	N	L	W.G	Price
DC-104B	1/4	.67	.71	1.32		

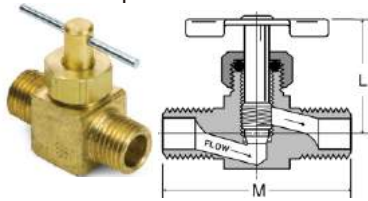
Female Pipe



PART#	PIPE THREAD	M	L	W.G	Price
DC-105A	1/8	1.12	.50		
DC-105B	1/4	1.62	.69		

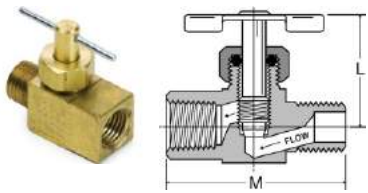
DRAIN COCKS

Male Pipe



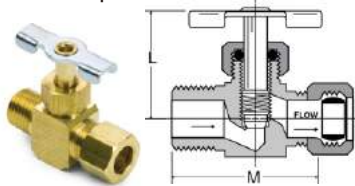
PART#	PIPETHREAD	M	L	W.G	Price
DC-106A	1/8	1.38	.66		
DC-106B	1/4	1.62	1.08		

Male to Female Pipe



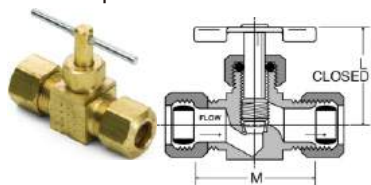
PART#	PIPETHREAD	M	L	W.G	Price
DC-107A	1/8	1.18	.88		
DC-107B	1/4	1.88	1.09		

Compression Straightway



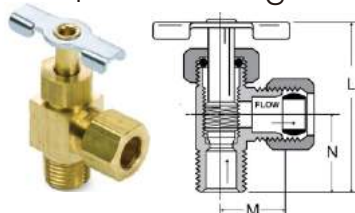
PART#	O.DxTHREAD	M	L	W.G	Price
DC-108-4A	1/4x1/8	1.19	.88		
DC-108-4B	1/4x1/4	1.26	.91		
DC-108-6B	3/8x1/4	1.82	1.31		

Compression Double



PART#	HOSE O.D	M	L	W.G	Price
DC-109-4	1/4	1.13	.88		
DC-109-6	3/8	1.50	1.11		

Compression Angle



PART#	O.DxNPTF	M	N	L	W.G	Price
DC-110-4A	1/4x1/8	.53	.70	1.53		
DC-110-4B	1/4x1/4	.69	.75	1.76		
DC-110-6B	3/8x1/4	.78	.81	1.76		



Legines

Nickel-Plated BRASS FITTINGS

NICKEL-PLATED BRASS FITTINGS

GAS conical ISO 7 (BSPT)
GAS Cylindrical ISO 228 (BSP)

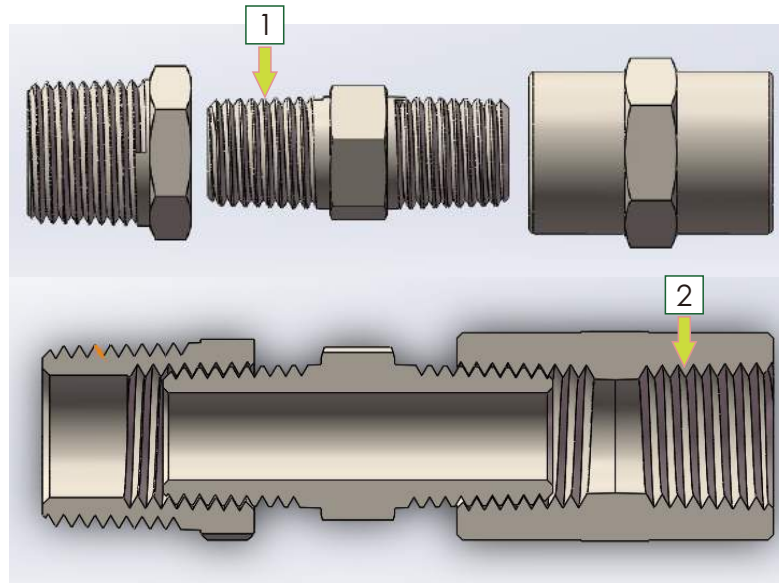


European ROHS directives:2011/65/EC
Relating to the limitation of the use of 6
hazardous substances in electrical and
electronic equipment (mercury,lead,cadmium,
hexavalent chromium,PBB and PBDE)



114

Nickel-Plated PIPE FITTINGS



1 pipe thread

2 pipe thread

PIPE SIZE	M5	1/8	1/4	3/8	1/2	3/4	1"
THREAD SIZE	M5	1/8-28	1/4-19	3/8-19	1/2-14	3/4-14	1"-11

Typical cation:

Grease, refrigeration, instrumentation and hydraulic systems. Fuel, LP and natural gas available on special order

Pressure:

Operating pressure up to 40bai

Vibration:

Fair resistance.

Temperature Range:

-104° F to +250° F (-40° C to +120° C

Material:

Hpb59-1 Brass for Barstock fittings.,CA3771 Brass for forged fittings

Used With:

Brass, bronze and iron pipe.

Advantages:

Dryseal pipe threads (**BSPT/BSP**). Large range of sizes and configurations.

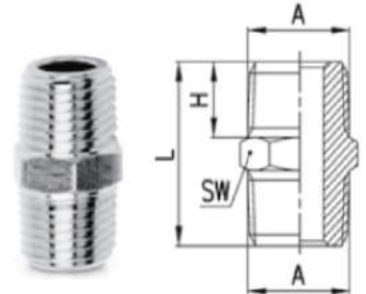
Actual Male Thread Profiles



Nickel-Plated PIPE FITTINGS

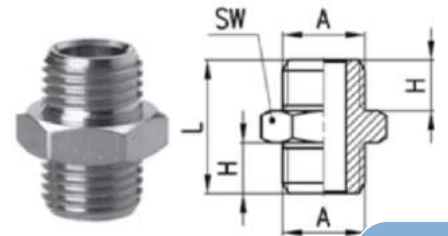
PART#	A	S.W	L	H	Weight	Price
2500-A	R1/8	12	19.5	7.5	9	
2500-B	R1/4	14	27	11	16	
2500-C	R3/8	17	28	11.5	21	
2500-D	R1/2	22	33.5	14	41	
2500-E	R3/4	27	40	16.5	80	
2500-F	R1	34	45.5	19	125	

R NIPPLE



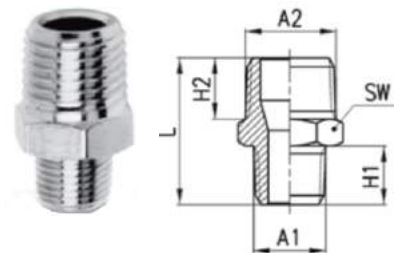
PART#	A	S.W	L	H	Weight	Price
2501-M5	M5	8	11.5	4	3	
2501-A	G1/8	13	16.5	6	9	
2501-B	G1/4	17	21	8	16	
2501-C	G3/8	19	23	9	21	
2501-D	G1/2	24	25.5	10	35	

G NIPPLE



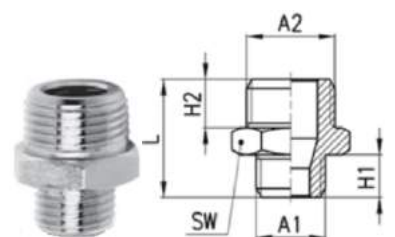
PART#	A1×A2	S.W	L	H	Weight	Price
2510-AB	R1/8×R1/4	14	23.5	7.5	14	
2510-AC	R1/8×R3/8	17	24	7.5	18	
2510-BC	R1/4×R3/8	17	27.5	11	20	
2510-BD	R1/4×R1/2	22	30.5	11	34	
2510-CD	R3/8×R1/2	22	31	11.5	34	
2510-DE	R1/2×R3/4	27	37.5	14	67	

REDUCING NIPPLE



PART#	A1×A2	S.W	L	H	Weight	Price
2511-M5A	M5×G1/8	13	14.5	4	8	
2511-AB	G1/8×G1/4	17	19	6	15	
2511-AC	G1/8×G3/8	19	20	6	19	
2511-BC	G1/4×G3/8	19	22	8	20	
2511-BD	G1/4×G1/2	24	23.5	10	32	
2511-CD	G3/8×G1/2	24	24.5	10	34	

REDUCING NIPPLE

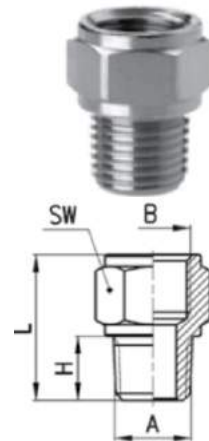


116

Nickel-Plated PIPE FITTINGS

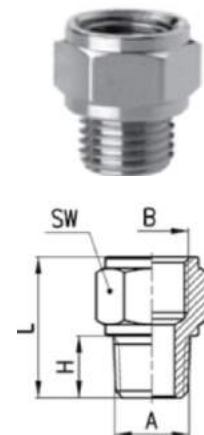
PART#	A×B	S.W	L	H	Weight	Price
2520-AA	R1/8×G1/8	13	17.5	7.5	9	
2520-AB	R1/8×G1/4	17	19	7.5	15	
2520-AC	R1/8×G3/8	20	20	7.5	19	
2520-BB	R1/4×G1/4	17	22.5	11	17	
2520-BC	R1/4×G3/8	20	23.5	11	21	
2520-BD	R1/4×G1/2	24	27.5	11	35	
2520-CC	R3/8×G1/2	20	24	11.5	23	
2520-CD	R3/8×G1/2	24	28	11.5	37	
2520-DD	R1/2×G1/2	24	30.5	14	41	

R EXTENDER ADAPTER



PART#	A×B	S.W	L	H	Weight	Price
2521-M5A	M5×G1/8	13	14	4	9	
2521-AA	G1/8×G1/8	13	16	6	10	
2521-AB	G1/8×G1/4	17	17.5	6	14	
2521-AC	G1/4×G3/8	20	18.5	6	30	
2521-BB	G1/4×G1/4	17	19.5	8	16	
2521-BC	G1/4×G3/8	20	20.5	8	20	
2521-BD	G1/4×G1/2	24	24.5	8	33	
2521-CC	G3/8×G3/8	20	21.5	9	22	
2521-CD	G3/8×G1/2	24	25.5	9	35	
2521-DD	G1/2×G1/2	24	26.5	10	40	

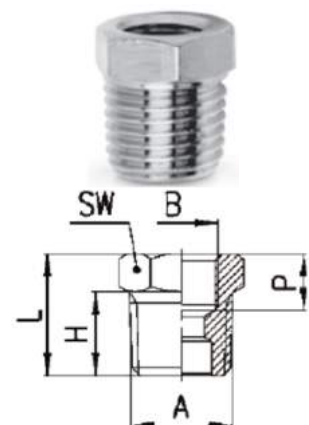
G EXTENDER ADAPTER



117

PART#	A×B	S.W	L	H	Weight	Price
2530-BA	R1/4×G1/8	14	16	11	9	
2530-CA	R3/8×G1/8	17	16.5	11.5	17	
2530-CB	R3/8×G1/4	17	19.5	11.5	13	
2530-DB	R1/2×G1/4	22	19.5	14	30	
2530-DC	R1/2×G3/8	22	19.5	15	24	
2530-EC	R3/4×G3/8	22	23	16.5	67	
2530-ED	R3/4×G1/2	27	23.5	16.5	48	
2530-HD	R3/8×G1/2	34	27	19	131	

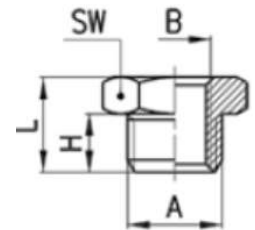
BUSHING



Nickel-Plated PIPE FITTINGS

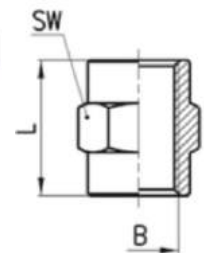
PART#	A×B	S.W	L	H	Weight	Price
2531-M5A	G1/8×M5	13	10.5	6	8	
2531-BA	G1/4×G1/8	17	13	8	11	
2531-CA	G3/8×G1/8	19	14	9	17	
2531-CB	G3/8×G1/4	19	14	9	12	
2531-DA	G1/2×G1/8	24	15.5	10	32	
2531-DB	G1/2×G1/4	24	15.5	10	29	
2531-DC	G1/2×G3/8	24	15.5	10	22	

BUSHING



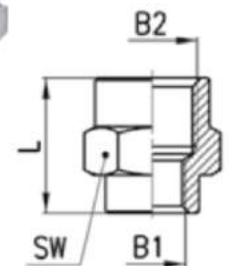
PART#	B	S.W	L	Weight	Price
2543-M5	M5	8	11	5	
2543-A	G1/8	13	15	9	
2543-B	G1/4	17	22	19	
2543-C	G3/8	20	23	25	
2543-D	G1/2	24	28	29	

COUPLING



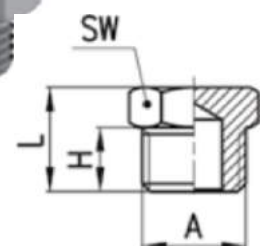
PART#	B1×B2	S.W	L	Weight	Price
2553-M5A	M5×G1/8	13	13.5	7	
2553-AB	G1/8×G1/4	17	17	18	
2553-AC	G1/8×G3/8	20	18	22	
2553-AD	G1/8×G1/2	24	21.5	28	
2553-BC	G1/4×G3/8	20	19.5	26	
2553-BD	G1/4×G1/2	24	23	32	
2553-CD	G3/8×G1/2	24	24	31	

REDUCING COUPLING



PART#	A	S.W	L	Weight	Price
2611-M5	M5	8	7.5	3	
2611-A	G1/8	13	10.5	8	
2611-B	G1/4	17	13	13	
2611-C	G3/8	19	14	18	
2611-D	G1/2	24	15.5	31	
2611-E	G3/4	30	17	55	
2611-H	G1"	38	19	76	

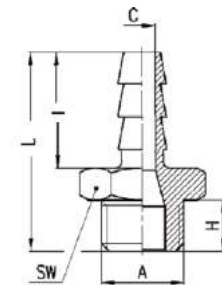
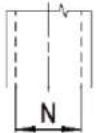
PULG



Nickel-Plated PIPE FITTINGS

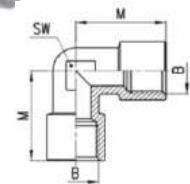
PART#	A	S.W	L	C	H	I	Weight	Price
2601 2-M5	M5	8	16	1.2	6	8	8	
2601 4.5-M5	M5	8	23	2.5	8	15	8	
2601 7-1/8	G1/8	12	30	4	9	20	12	
2601 7-1/4	G1/4	17	33	4	9	20	17	
2601 8-1/8	G1/8	12	33	5	10	20	12	
2601 9-1/8	G1/8	12	30	5.5	10	20	12	
2601 9-1/4	G1/4	17	30	6	10	20	17	
2601 9-3/8	G3/8	19	34	6	9	20	21	
2601 12-1/4	G1/4	17	33	8.5	8	20	20	
2601 12-3/8	G3/8	19	34	9	9	20	23	
2601 12-1/2	G1/2	24	35.5	9	10	20	34	
2601 17-3/8	G3/8	19	38	12	9	24	31	
2601 17-1/2	G1/2	24	39.5	13	10	24	41	

HOSE BARR



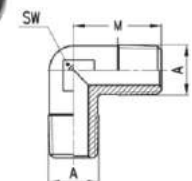
PART#	B	S.W	M	Weight	Price
2013-A	G1/8	11	18	27	
2013-B	G1/4	12	22	34	
2013-C	G3/8	15	24	59	
2013-D	G1/2	20	30	98	
2013-E	G3/4	24	32	135	

FEMALE ELBOW



PART#	A	S.W	M	Weight	Price
2010-A	R1/8	11	19	15	
2010-B	R1/4	12	23	25	
2010-C	R3/8	15	25	36	
2010-D	R1/2	20	31	65	
2010-E	R3/4	22	35	127	

MALE ELBOW

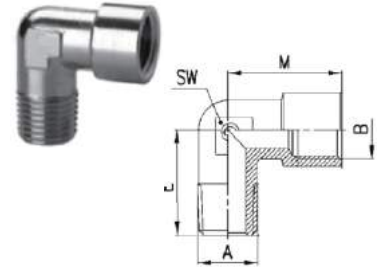


119

Nickel-Plated PIPE FITTINGS

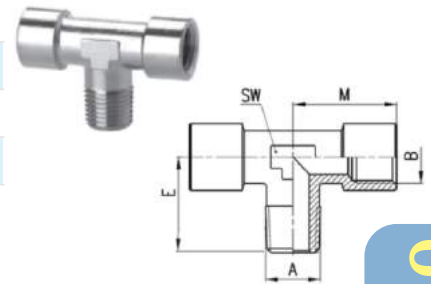
PART#	AxB	S.W	M	E	Weight	Price
2020-A	R1/8xG1/8	11	19	16	17	
2020-B	R1/4xG1/4	12	23	20	27	
2020-C	R3/8xG3/8	15	25	22	33	
2020-D	R1/2xG1/2	20	31	28	63	
2020-E	R3/4xG3/4	24	36.5	30	126	

STREET ELBOW



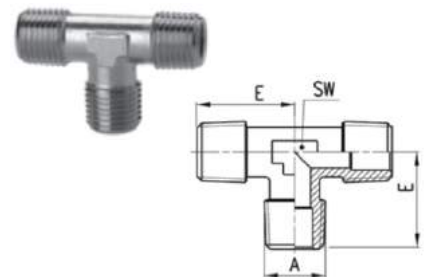
PART#	AxB	S.W	M	E	Weight	Price
2060-A	R1/8xG1/8	11.6	19	15	22	
2060-B	R1/4xG1/4	16	23	20	38	
2060-C	R3/8xG3/8	20	25	20.5	49	
2060-D	R1/2xG1/2	23	31.5	24.5	89	

MALE BRANCH TEE



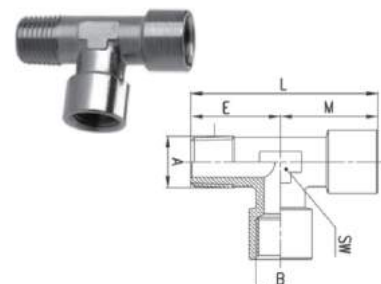
PART#	AxB	S.W	E	Weight	Price
2080-A	R1/8	11.6	19	14	
2080-B	R1/4	16	23	25	
2080-C	R3/8	20	25	39	
2080-D	R1/2	23	31.5	82	
2080-E	r3/4	24	36.5	135	

MALE TEE



PART#	AxB	S.W	M	E	Weight	Price
2070-A	R1/8xG1/8	11.6	19	15	22	
2070-B	R1/4xG1/4	16	23	20	37	
2070-C	R3/8xG3/8	20	25	20.5	49	
2070-D	R1/2xG1/2	23	31.5	24.5	89	

STREET TEE

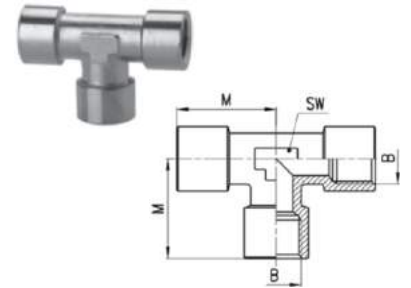


120

Nickel-Plated PIPE FITTINGS

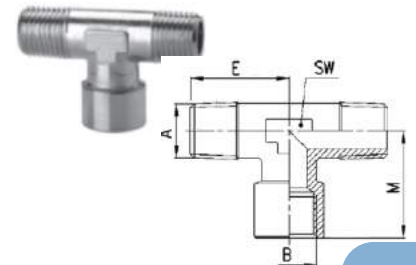
PART#	A	S.W	M	M	Weight	Price
2003-A	R1/8	11.6	19	19	23	
2003-B	R1/4	16	23	23	39	
2003-C	R3/8	20	25	25	54	
2003-D	R1/2	23	31.5	31.5	97	

FEMALE TEE



PART#	AxB	S.W	M	E	Weight	Price
2090-A	R1/8xG1/8	11.6	15.5	19	22	
2090-B	R1/4xG1/4	16	20.5	23	37	
2090-C	R3/8xG3/8	20	20.5	25	44	
2090-D	R1/2xG1/2	23	24.5	31.5	83	
2090-E	R3/4xG3/4	25	36.5	27	156	

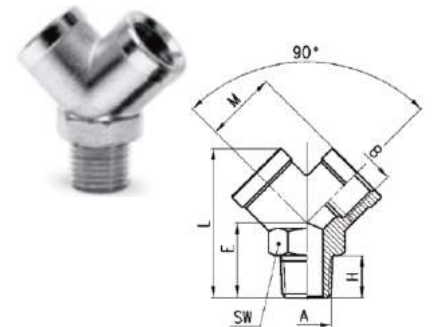
STREET TEE



121

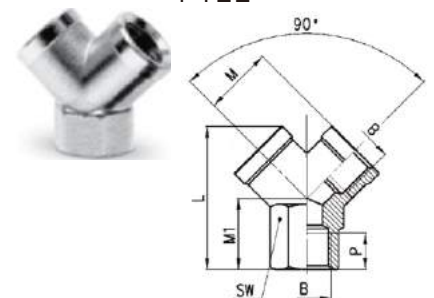
PART#	AxB	S.W	L	H	E	Weight	Price
2040-A	R1/8xG1/8	13	32	8	13.5	22	
2040-B	R1/4xG1/4	17	38	11	17.5	37	
2040-C	R3/8xG3/8	20	42.5	11.5	19.5	44	
2040-D	R1/2xG1/2	24	53	14	22.5	83	

Y TEE



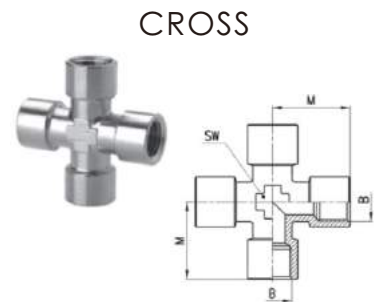
PART#	B	S.W	L	P	M1	Weight	Price
2043-A	G1/8xG1/8	13	32	8	12	18	
2043-B	G1/4xG1/4	17	38	11	14	32	
2043-C	G3/8xG3/8	20	42.5	11.5	16	44	
2043-D	G1/2xG1/2	24	53	14	19	84	

Y TEE



Nickel-Plated PIPE FITTINGS

PART#	B	S.W	M	M	Weight	Price
2033-A	G1/8	12	19	19	27	
2033-B	G1/4	14	23	23	51	
2033-C	G3/8	16	25	25	70	





Legines

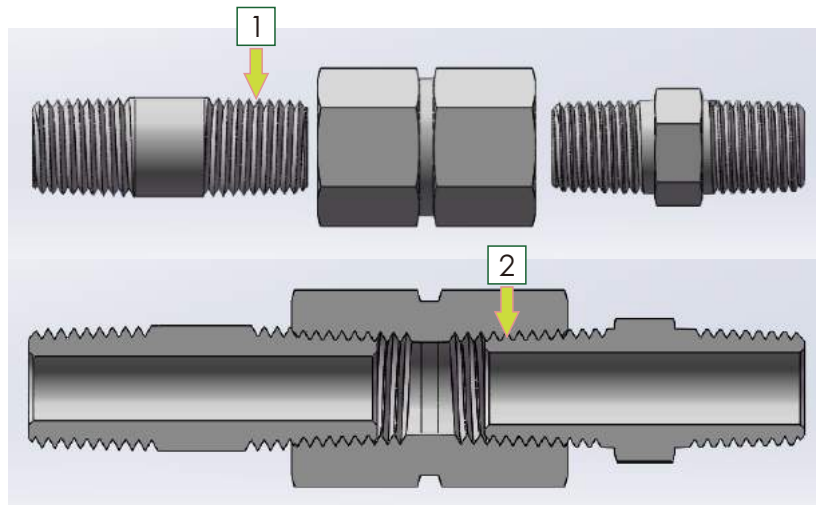
Stainless steel PIPE FITTINGS

Pipe Fittings

1/16" to 1in. sizes
316 stainless steel and 304 stainless steel
NPT, ISO/BSP, and SAE threads



123



1 pipe thread

2 pipe thread

PIPE SIZE	1/16	1/8	1/4	3/8	1/2	3/4	1"
THREAD SIZE	1/16-27	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1"-1.1/2

Typical cation:

Grease, refrigeration, instrumentation and hydraulic systems. Fuel, LP and natural gas available on special order

Pressure:

Max working pressure up to 10000 psi (316 Materials)

Vibration:

Fair resistance.

Temperature Range:

-250° F to + 800° F (-121° C to +426° C), O-ring fittings excluded. (316 Materials)

Material:

316 Stainless steel ,and Optional 304 Stainless steel

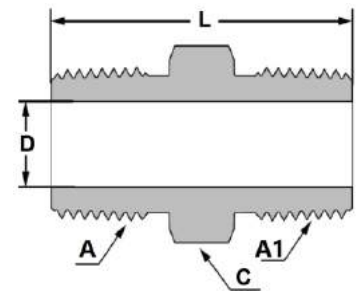
Actual Male Thread Profiles



S.S PIPE FITTINGS

PART#	Thread size	C	D	D1	L	W.G	Price
S3325-11	1/16×1/16	5/16	.120	.120	1.00		
S3325-A1	1/8×1/16	7/16	.120	.120	1.00		
S3325-AA	1/8×1/8	7/16	.190	.190	1.00		
S3325-BA	1/4×1/8	9/16	.190	.190	1.22		
S3325-BB	1/4×1/4	9/16	.280	.280	1.40		
S3325-CA	3/8×1/8	11/16	.190	.190	1.25		
S3325-CB	3/8×1/4	11/16	.280	.280	1.43		
S3325-CC	3/8×3/8	11/16	.380	.380	1.43		
S3325-DA	1/2×1/8	7/8	.470	.190	1.47		
S3325-DB	1/2×1/4	7/8	.470	.280	1.62		
S3325-DC	1/2×3/8	7/8	.380	.380	1.62		
S3325-DD	1/2×1/2	7/8	.470	.470	1.84		
S3325-EB	3/4×1/4	1-1/16	.620	.280	1.65		
S3325-EC	3/4×3/8	1-1/16	.620	.380	1.78		
S3325-ED	3/4×1/2	1-1/16	.620	.470	1.84		
SS3325-EE	3/4×3/4	1-1/16	.620	.620	1.84		
S3325-HB	1"×1/4	1-3/8	.880	.280	1.94		
S3325-HC	1"×3/8	1-3/8	.880	.380	1.97		
S3325-HD	1"×1/2	1-3/8	.880	.470	2.13		
S3325-HE	1"×3/4	1-3/8	.880	.620	2.13		
S3325-HH	1"×1"	1-3/8	.880	.880	2.32		

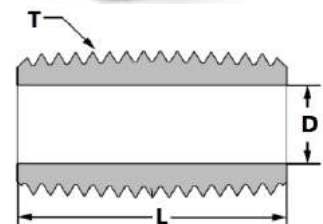
Nipple
Reducing Hex Nipple



125

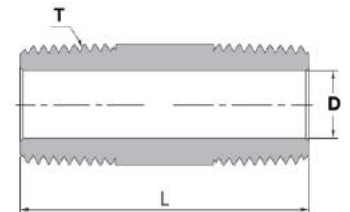
PART#	Thread size	D	L	W.G	Price
S3326-1	1/16	.120	.75		
S3326-A	1/8	.190	.75		
S3326-B	1/4	.280	1.12		
S3326-C	3/8	.380	1.12		
S3326-D	1/2	.470	1.50		
S3326-E	3/4	.620	1.50		
S3326-H	1"	.880	.188		

Nipple
Close Nipple



PART#	Thread size	D	L	W.G	Price
S3327-A	1/8	.190	1.50		
S3328-A	1/8	.190	2.00		
S3329-A	1/8	.190	2.50		
S3330-A	1/8	.190	3.00		
S3327-B	1/4	.280	1.50		
S3328-B	1/4	.280	2.00		
S3329-B	1/4	.280	2.50		
S3330-B	1/4	.280	3.00		
S3327-C	3/8	.380	1.50		
S3328-C	3/8	.380	2.00		
S3329-C	3/8	.380	2.50		
S3330-C	3/8	.380	3.00		
S3328-D	1/2	.470	2.00		
S3330-D	1/2	.470	3.00		
S3331-D	1/2	.470	4.00		
S3328-E	3/4	.620	2.00		
S3330-E	3/4	.620	3.00		
S3331-E	3/4	.620	4.00		
S3330-H	1"	.880	3.00		
S3331-H	1"	.880	4.00		

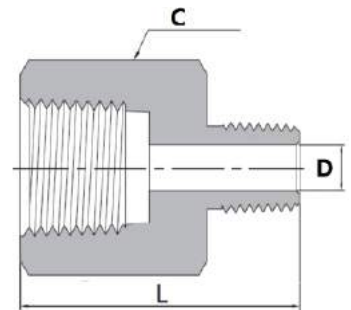
Long Nipple



S.S PIPE FITTINGS

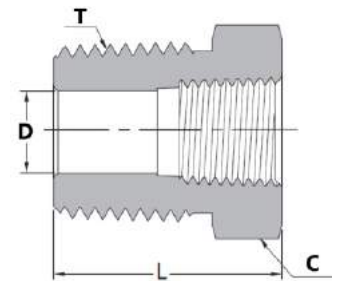
PART#	Thread size	C	D	L	W.G	Price
S3200-A1	F1/8×M1/16	9/16	.120	1.09		
S3200-AA	F1/8×M1/8	9/16	.190	1.10		
S3200-B1	F1/4×M1/16	3/4	.120	1.20		
S3200-BA	F1/4×M1/8	3/4	.190	1.26		
S3200-BB	F1/4×M1/4	3/4	.280	1.25		
S3200-C1	F3/8×M1/16	7/8	.120	1.25		
S3200-CA	F3/8×M1/8	7/8	.190	1.33		
S3200-CB	F3/8×M1/4	7/8	.280	1.50		
S3200-CC	F3/8×M3/8	7/8	.380	1.51		
S3200-DA	F1/2×M1/8	1-1/16	.190	1.58		
S3200-DB	F1/2×M1/4	1-1/16	.280	1.76		
S3200-DC	F1/2×M3/8	1-1/16	.380	1.75		
S3200-DD	F1/2×M1/2	1-1/16	.470	1.94		
S3200-EA	F3/4×M1/8	1-1/4	.190	1.56		
S3200-EB	F3/4×M1/4	1-1/4	.280	1.85		
S3200-EC	F3/4×M3/8	1-1/4	.380	1.82		
S3200-ED	F3/4×M1/2	1-1/4	.470	2.02		
S3200-EE	F3/4×M3/4	1-1/4	.620	2.02		
S3200-HB	F1"×M1/4	1-5/8	.280	1.96		
S3200-HC	F1"×M3/8	1-5/8	.380	2.00		
S3200-HD	F1"×M1/2	1-5/8	.470	2.16		
S3200-HE	F1"×M3/4	1-5/8	.620	2.17		
S3300-HH	F1"×M1"	1-5/8	.880	2.28		

Adapter
(Ref.SAENO.130139)



PART#	Thread siz	C	D	L	W.G	Price
S3220-A1	M1/8×F1/16	7/16	.19	1.03		
S3220-B1	M1/4×F1/16	9/16	.19	.86		
S3220-BA	M1/4×F1/8	9/16	.28	1.06		
S3220-C1	M3/8×F1/16	11/16	.19	.86		
S3220-CA	M3/8×F1/8	11/16	.34	.86		
S3220-CB	M3/8×F1/4	3/4	.38	1.19		
S3220-DA	M1/2×F1/8	7/8	.34	1.08		
S3220-DB	M1/2×F1/4	7/8	.45	1.08		
S3220-DC	M1/2×F3/8	7/8	.47	1.41		
S3220-EB	M3/4×F1/4	1-1/8	.45	1.08		
S3220-EC	M3/4×F3/8	1-1/8	.59	1.08		
S3220-ED	M3/4×F1/2	1-1/8	.62	1.63		
S3220-HB	M1"×F1/4	1-3/8	.45	1.37		
S3220-HC	M1"×F3/8	1-3/8	.59	1.37		
S3220-HD	M1"×F1/2	1-3/8	.73	1.37		
S3220-HE	M1"×F3/4	1-3/8	.88	1.85		

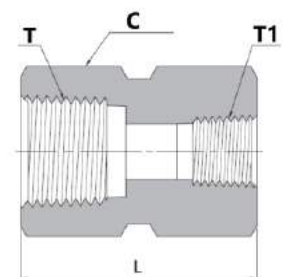
Bushing



128

PART#	T×T1	C	L	W.G	Price
S3300L-11	1/16×1/16	7/16	.78		
S3300-AA	1/8×1/8	9/16	.81		
S3300-BA	1/4×1/8	3/4	1.22		
S3300-BB	1/4×1/4	3/4	1.19		
S3300-CB	3/8×1/4	7/8	1.38		
S3300-CC	3/8×3/8	7/8	1.31		
S3300-DB	1/2×1/4	1-1/16	1.75		
S3300-DC	1/2×3/8	1-1/16	1.78		
S3300-DD	1/2×1/2	1-1/16	1.56		
S3300-ED	3/4×1/2	1-1/4	2.06		
S3300-EE	3/4×3/4	1-1/4	1.62		
S3300-HD	1"×1/2	1-1/2	2.19		
S3300-HE	1"×3/4	1-1/2	2.25		
S3300-HH	1"×1"	1-1/2	2.00		

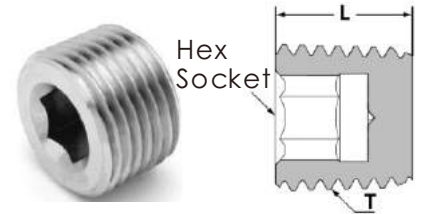
Coupling
(Ref.SAE.NO.130138)



S.S PIPE FITTINGS

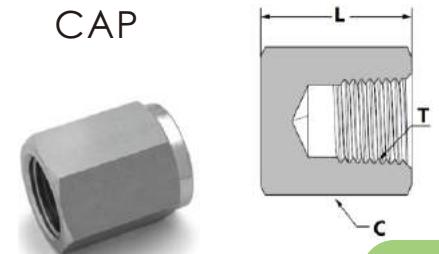
PART#	Thread size	Socket Hex	L	W.G	Price
S3153-A	1/8	3/16	.30		
S3153-B	1/4	1/4	.45		
S3153-C	3/8	15/16	.47		
S3153-D	1/2	3/8	.54		
S3153-E	3/4	9/16	.55		
S3153-H	1"	5/8	.69		

Hex Socket Plug



PART#	Thread size	C	L	W.G	Price
S3129-A	1/8	5/8	.53		
S3129-B	1/4	3/4	.91		
S3129-C	3/8	7/8	1.03		
S3129-D	1/2	1-1/8	1.34		
S3129-E	3/4	1-3/8	1.44		
S3129-H	1"	1-5/8	1.62		

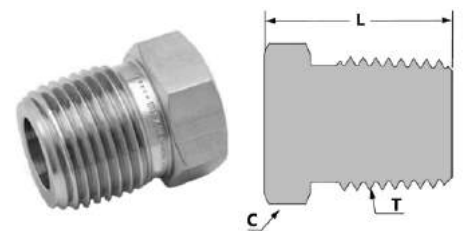
CAP



129

PART#	Thread size	C	L	W.G	Price
S3152-1	1/16	5/8	.53		
S3152-A	1/8	7/16	.56		
S3152-B	1/4	9/16	.74		
S3152-C	3/8	11/16	.78		
S3152-D	1/2	7/8	.97		
S3152-E	3/4	1-1/16	1.10		
S3152-H	1"	1-5/16	1.24		

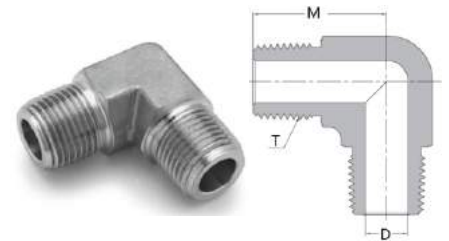
Hex Head Plug



S.S PIPE FITTINGS

PART#	Thread size	D	M	W.G	Price
S3550-1	1/16	.120	.67		
S3550-A	1/8	.190	.88		
S3550-B	1/4	.280	1.05		
S3550-C	3/8	.380	1.17		
S3550-D	1/2	.470	1.45		
S3550-E	3/4	.620	1.59		
S3550-H	1"	.880	1.97		

Forged 90 Male Elbow

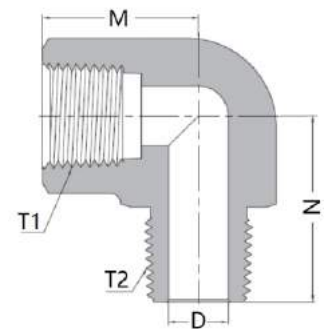


PART#	Thread size	D	M	N	W.G	Price
S3420-1-1	F1/16×F1/16	.120	.86	.88		
S3420-1A	F1/16×F1/8	.120	.86	.88		
SS3420-1B	F1/16×M1/4	.120	.88	1.09		
S3420-AA	F1/8×M1/8	.120	1.04	.87		
S3420-AB	F1/8×M1/4	.280	.88	1.09		
S3420-AC	F1/8×M3/8	.280	.88	1.17		
S3420-BA	F1/4×M1/8	.190	1.17	1.00		
S3420-BB	F1/4×M1/4	.280	1.17	1.17		
S3420-BC	F1/4×M3/8	.340	1.17	1.17		
S3420-BD	F1/4×M1/2	.340	1.00	1.45		
S3420-CB	F3/8×M1/4	.280	1.42	1.26		
S3420-CC	F3/8×M3/8	.380	1.42	1.26		
S3420-CD	F3/8×M1/2	.470	1.42	1.45		
S3420-CE	F3/8×M3/4	.470	1.23	1.59		
S3420-DB	F1/2×M1/4	.280	1.56	1.38		
S3420-DC	F1/2×M3/8	.380	1.56	1.38		
S3420-DD	F1/2×M1/2	.470	1.56	1.56		
S3420-DE	F1/2×M3/4	.620	1.23	1.59		
S3420-EE	F3/4×M3/4	.620	1.92	1.97		
S3420-EH	F3/4×M1"	.880	1.63	1.94		

90° Street Elbow



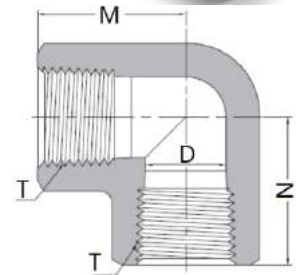
130



S.S PIPE FITTINGS

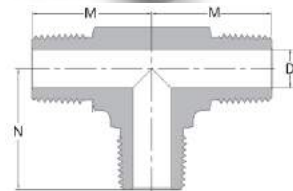
PART#	Thread size	D	M	N	W.G	Price
S3520-11	1/16×1/16	.190	.86	.86		
S3520-A1	1/8×1/16	.190	1.04	1.04		
S3520-AA	1/8×1/8	.280	1.04	1.04		
S3520-BA	1/4×1/8	.280	1.17	1.17		
S3520-BB	1/4×1/4	.410	1.17	1.17		
S3520-CC	3/8×3/8	.500	1.42	1.42		
S3520-DD	1/2×1/2	.670	1.56	1.56		
S3520-EE	3/4×3/4	.880	1.92	1.92		
S3520-HH	1"×1"	1.11	1.91	1.91		

90° Street Elbow



PART#	Thread size	D	M	N	W.G	Price
S3800-1	1/16	.120	.67	.67		
S3800-A	1/8	.190	.88	.88		
S3800-B	1/4	.280	1.05	1.05		
S3800-C	3/8	.380	1.17	1.17		
S3800-D	1/2	.470	1.45	1.45		
S3800-E	3/4	.620	1.67	1.67		

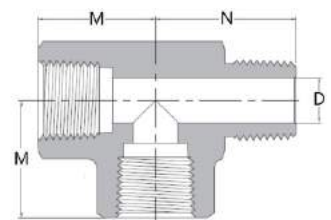
Forged all Male Tee



131

PART#	Thread size	M	N	D	W.G	Price
S3750-1	1/16	.86	.72	.12		
S3750-A	1/8	1.04	.87	.19		
S3750-B	1/4	1.17	1.17	.28		
S3750-C	3/8	1.42	1.26	.38		
S3750-D	1/2	1.56	1.56	.47		
S3750-E	3/4	1.92	1.67	.62		

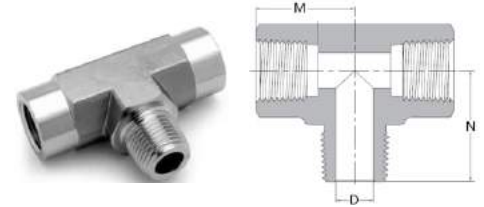
Forged Male Run Tee



S.S PIPE FITTINGS

PART#	Thread size	M	N	D	W.G	Price
S3600-1	F1/16×M1/16	.86	.72	.12		
S3600-A	F1/8×M1/8	1.04	.87	.19		
S3600-B	F1/4×M1/4	1.17	1.17	.28		
S3600-C	F3/8×M3/8	1.42	1.26	.38		
S3600-D	F1/2×M1/2	1.56	1.56	.47		
S3600-E	F3/4×M3/4	1.92	1.67	.62		

Male Branch Tee



PART#	Thread size	L	D	W.G	Price
S3700-1	1/16	.86	.19		
S3700-A	1/8	1.04	.34		
S3700-B	1/4	1.17	.45		
S3700-C	3/8	1.42	.59		
S3700-D	1/2	1.56	.73		
S3700-E	3/4	1.92	.94		

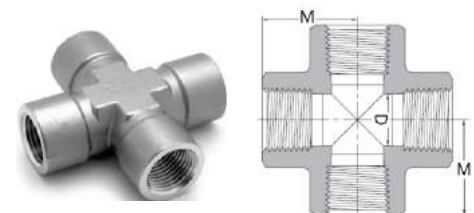
Tee

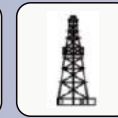


132

PART#	Thread size	D	M	W.G	Price
S3950-1	1/16	.190	.86		
S3950-A	1/8	.340	1.04		
S3950-B	1/4	.450	1.17		
S3950-C	3/8	.590	1.42		
S3950-D	1/2	.720	1.56		
S3950-E	3/4	.940	1.92		

Crosses





Legines

HYDRAULIC QUICK COUPLINGS

Hydraulic Quick Couplings

ST Series non-valved couplings provide maximum flow and low pressure drop. The smooth, open bore allows easy cleaning in applications where the same lines are used for more than one media.

Features

- Steel nipples are case hardened for resistance to Brinelling
- Functionally interchanges with similar straight-through design couplings
 - Standard Nitrile seals
 - Material options available
 - Sleeve-Lok option available

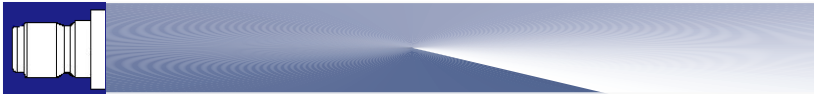
Applications:

- High pressure water
 - Steam washers
 - Carpet cleaners



133





LE Series non-valved couplings provide maximum flow and low pressure drop. The smooth, open bore allows easy cleaning in applications where the same lines are used for more than one media.

Features:

- Steel nipples are case hardened for resistance to Brinelling
- Functionally interchanges with similar straight-through design couplings
- Standard Nitrile seals
- Material options available
- Sleeve-Lok option available

Applications:

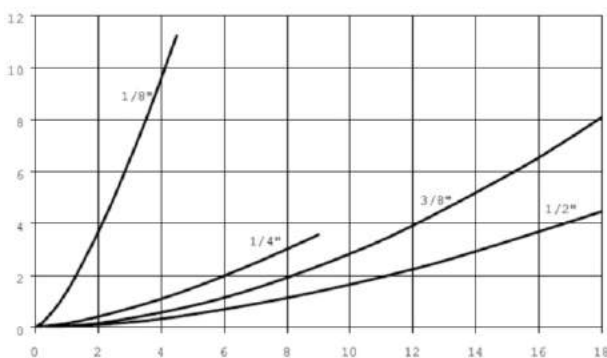
- High pressure water
- Steam washers
- Carpet cleaners

Body Size	Rated Pressure (psi) Brass Couple/Nipple	Rated Pressure (psi) Brass Coupler/Steel Nipple	Rated Pressure (psi) 303 ss Coupler/Nipple	Temperature Range (standar seals)
1/8"	2500	2600	4200	-40° to +250° F
1/4"	5200	5500	6700	
3/8"	2700	3500	5500	
1/2"	2200	2700	3000	
3/4"	1700	2700	3000	
1"	1200	2000	1700	
1-1/4"	1700	-	-	
1-1/2"	1400	-	-	

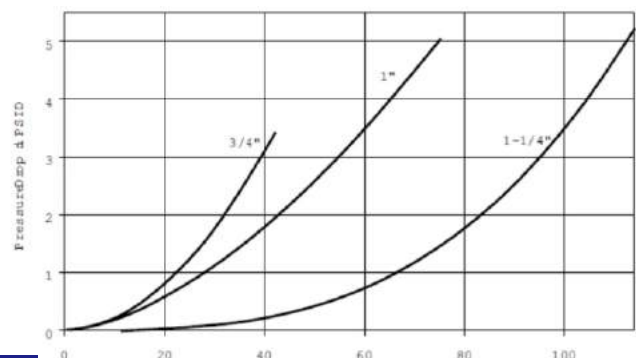
134

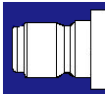
Performance

ST Series (1/8", 1/4", 3/8", 1/2")
Test Fluid: Oil - 150 SUS



ST Series (3/4", 1", 1-1/4")
Test Fluid: Oil - 150 SUS





LE Series Couplers-Female Pipe Thread



Body	Brass	303 Staintess	Port End	L	W.G	Price
Size	Part Number	Part Number	Thread	inch	g	\$
1/8	BST-1	SST-1	1/8-27NPTF	1.01		
1/4	BST-2	SST-2	1/4-18NPTF	1.40		
3/8	BST-3	SST-3	3/8-18NPTF	1.60		
1/2	BST-4	SST-4	1/2-14NPTF	1.96		
3/4	BST-6	SST-6	3/4-14NPTF	2.10		
1"	BST-8	SST-8	1-11 1/2NPTF	2.36		
1"-1/4	BST-10	SST-10	1 1/4-11 1/2NPTF	2.36		
1"-1/2	BST-12	SST-12	1 1/2-11 1/2NPTF	2.89		

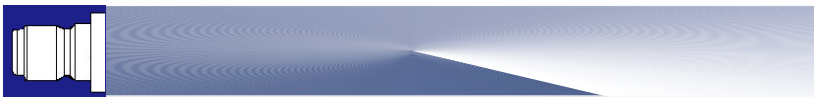
135

LE Series Couplers-Male Pipe Thread



Body	Brass	303 Staintess	Port End	L	W.G	Price
Size	Part Number	Part Number	Thread	inch	g	\$
1/8	BST-1M	SST-1M	1/8-27NPTF	1.01		
1/4	BST-2M	SST-2M	1/4-18NPTF	1.66		
3/8	BST-3M	SST-3M	3/8-18NPTF	1.70		
1/2	BST-4M	SST-4M	1/2-14NPTF	2.00		
3/4	BST-6M	SST-6M	3/4-14NPTF	2.24		
1"	BST-8M	SST-8M	1-11 1/2NPTF	2.61		
1"-1/4	BST-10M	-	1 1/4-11 1/2NPTF	2.91		
1"-1/2	BST-12M	-	1 1/2-11 1/2NPTF	3.44		





LE Series Nipples-Female Pipe Thread



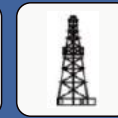
Body	Brass	303 Stainless	Port End	L	W.G	Price
Size	Part Number	Part Number	Thread	inch	g	\$
1/8	BST-1	SST-1	1/8-27NPTF	.98		
1/4	BST-2	SST-2	1/4-18NPTF	1.47		
3/8	BST-3	SST-3	3/8-18NPTF	1.60		
1/2	BST-4	SST-4	1/2-14NPTF	1.82		
3/4	BST-6	SST-6	3/4-14NPTF	2.05		
1"	BST-8	SST-8	1-11 1/2NPTF	2.36		
1"-1/4	BST-10	SST-10	1 1/4-11 1/2NPTF	2.47		
1"-1/2	BST-12	SST-12	1 1/2-11 1/2NPTF	2.74		

LE Series Nipples-Male Pipe Thread



Body	Brass	303 Stainless	Port End	L	W.G	Price
Size	Part Number	Part Number	Thread	inch	g	\$
1/8	BST-1M	SST-1M	1/8-27NPTF	1.01		
1/4	BST-2M	SST-2M	1/4-18NPTF	1.66		
3/8	BST-3M	SST-3M	3/8-18NPTF	1.70		
1/2	BST-4M	SST-4M	1/2-14NPTF	2.00		
3/4	BST-6M	SST-6M	3/4-14NPTF	2.24		
1"	BST-8M	SST-8M	1-11 1/2NPTF	2.61		
1"-1/4	BST-10M	-	1 1/4-11 1/2NPTF	2.91		
1"-1/2	BST-12M	-	1 1/2-11 1/2NPTF	3.44		





Legines

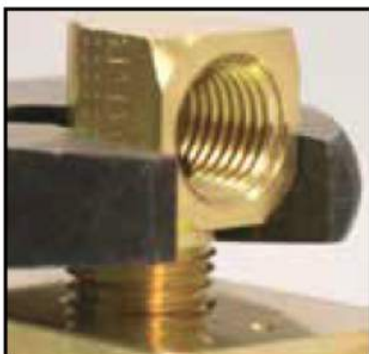
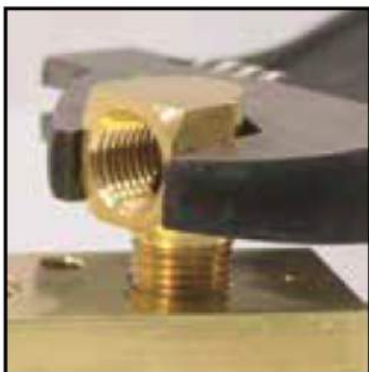
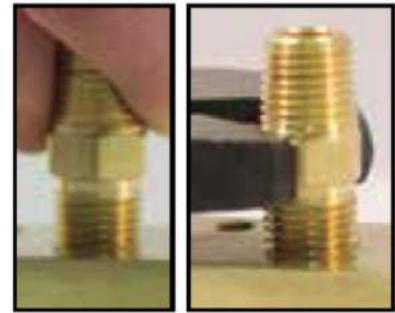
137

Assembly Guides

Pipe Fittings

Straight Fittings

1. Tighten external thread into internal thread
2. Tighten an additional 2 turns with a wrench up to 1/2" male pipe thread.
3. Above 1/2" 1 1/2 to 2 1/2 turns



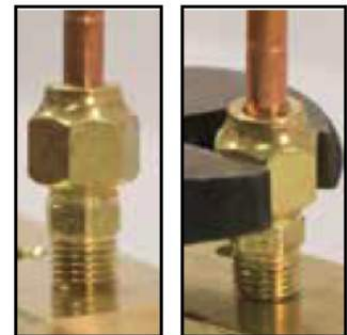
Elbow or Tee Fittings

1. Tighten external thread into internal thread
2. Tighten an additional 1 to 1 1/2 turns with a wrench
3. Tighten fitting, clockwise to align with tubing. (Never counter clockwise)

Note: To minimize the possibility of a leaking threaded joint after assembling Male to female pipe threads, neither end should be backed out (loosened) Once the assembly has been made.

45° Flare Fittings

1. Cut tubing squarely and clean tube end thoroughly to remove burrs.
2. Place nut onto tube. Place threaded end of nut toward end of tube.
3. Flare tube end with flaring tool to provide 45° flare.
4. Clamp tube flare between nut and nose of fitting body by screwing nut on finger-tight. Tighten with a wrench an additional 1/4 to 1/2 turn past finger-tight for a metal-to-metal seal.



Hose Barbs

1. Cut hose cleanly and squarely to length.
2. Slide clamp on hose.
3. Lubricate hose. Push hose on fitting until bottomed against stop ring or hex.
4. Position hose clamp as shown and secure with a screwdriver or wrench. Maintain "A" dimension for proper clamp positioning.

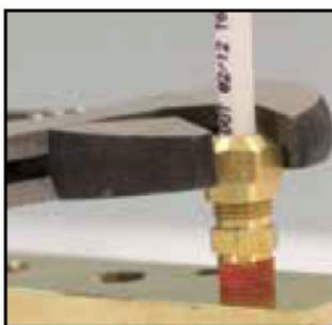
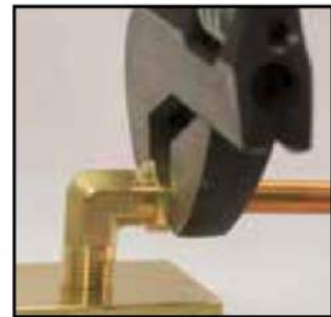


Mini-Barb

Cut tube squarely and simply push tube over the two barbs

Compression

1. Slide nut then sleeve onto tubing. The thread end of the nut must face out.
2. Insert tube and bottom on the fitting shoulder
3. Assemble nut to body and tighten “hand tight” . Then wrench tighten the number of turns indicated in the table.



Transportation Compression D.O.T Nylon Tube Fittings

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Insert tubing until it bottoms on seat.
4. Tighten nut with wrench until one thread remains visible on the fitting body; (this will allow for a number of remakes) or, the nut should be screwed down finger tight, then wrenchtightened as indicated in the following table.

Air Brake – AB Fittings

1. Cut tubing squarely and remove burrs
2. Slide nut and sleeve onto tubing.
3. Insert tubing into fitting until bottomed on seat. The nut should be screwed down finger tight, then wrench tightened as indicated in the chart



Air Brake Hose Ends

1. Slide nut onto hose
 2. Slide sleeve onto hose with tapered edge toward fitting body
 3. Bottom hose into fitting
 4. Tighten nut until it contacts body hex
- *Note: When reassembling fitting, body and nut should be inspected. Only reuse if parts are in proper condition. Sleeves should never be Reused.

PUSH-IN

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Insert tubing until it bottoms
4. Pull on tubing to verify it is fully inserted
5. To disassemble, simply press release button, hold against body and pull tubing out of fitting.



Inverted Flare

1. Cut tubing squarely and clean to remove burrs
2. Place nut onto tube. Place threaded end of nut toward end of tube.
3. Flare tube end with flaring tool to provide 45° flare
4. On thin wall copper, welded or brazed tubing, use double flare to prevent pinchoff or cracked flares
5. Clamp tube flare between nut and nose of fitting body by screwing nut on finger tight. Tighten nut with a wrench an additional 1/4 to 1/2 turn past finger tight for a metal-to-metal seal.



Legines

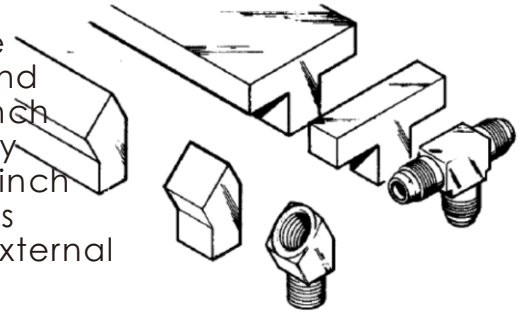
143

General Technical

Manufacturing Techniques

Legines Extruded fittings

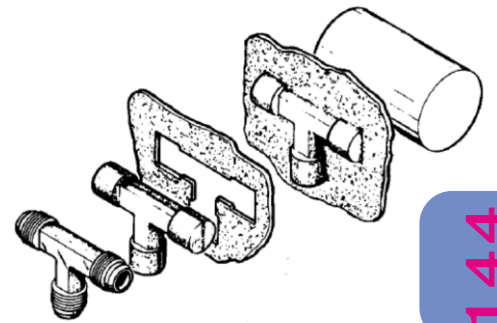
Hexagon, round and shaped bars are extruded in the configuration required, drawn to size, cut to length and straightened. First a solid round billet (8 to 12 inches in diameter) is heated to the pliable state and forced by pressure of approximately 80,000 pounds per square inch through a die. The resulting continuous length of bar is cooled and then drawn through dies to the desired external size. (The drawing process also controls the temper.) After straightening, the bar is ready for machining.



The process produces a dense, nonporous material somewhat stronger in the longitudinal direction due to an orientated flow of the grain.

Material used for Legines Brass Fittings

Reference SAE J661)
 Straight bodies. barstock CA 360 or CA 345
 Shape bodies. extruded barstock CA 360
 Shape bodies. forged CA 377
 Nuts: barstock CA 360
 Nuts: forged CA 377



Legines Forged Fittings

Material for forgings is extruded in round bars, cut to length and straightened. (At this point in the process, forging differs from round extruded machinable bars only in temper and chemical properties.) After straightening, the bars are cut again into slugs (short lengths), reheated to the pliable state and pressed under a pressure of approximately 25,000 pounds per square inch between upper and lower die cavities. After cooling the flash is

trimmed away and the forging blank is ready for machining. This process of forming under extreme pressure produces a uniformly dense material of exceptional strength. Because grain flow follows the contour, the fitting has high impact strength and is more resistant to mechanical shock and vibration.

Dryseal Pipe Threads

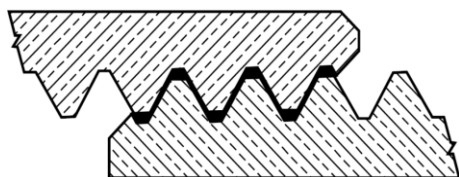
All dryseal pipe threads are manufactured in accordance with the American National Standards Institute (ANSI) B1.20.3 specification and designed to seal pressure tight joints. The threads may incorporate the NPTF (National Standard Pipe Taper Fuel and Oil), PTF-SAE Short PTF-SPL Short or PTF-SPL Extra Short form. Dryseal threads are used on brass products found within this catalog. Use of a thread sealant is recommended.

Non-Dryseal Pipe Threads

All non-dryseal pipe threads are manufactured in accordance with the American National Standards Institute (ANSI) B1.20.1 specification. These tapered pipe threads are used on our carbon and stainless steel products. Use of a thread sealant is recommended.

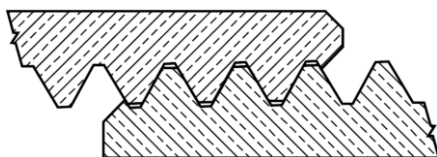
Nickel Plating

Nickel Plating is optional on standard product. Specifications for plating are not considered when standard product is manufactured. Since plating will alter thread pitch diameters, all plated threads should be qualified by functional fit with mating parts and not by standard thread gauging. Consult factory on plated product that will be qualified by standard thread gauging. These should be ordered as non-standards so product can be machined to pre-plated specifications. Nickel plating provides a corrosion resistant coating which is desirable in many applications. Electrolytic nickel plating is the standard plating supplied unless otherwise specified. This will provide a uniform coverage of external surfaces; however, internal surfaces may be uncoated.



Dryseal Pipe Thread

Metal to metal contact. Crests of thread are crushed by the roots when wrench-tightened to form seal.



Non-Dryseal Pipe Thread

Flanks are in contact with possible clearance between the roots and crests. Will not prevent spiral leakage.

Unified Threads

All threads in the columns headed "Straight Thread" found within this catalog are manufactured in accordance with the American National Standards Institute (ANSI) B1.1 specification.

British Standard Pipe Threads BSPT and BSPP

Pressure Tight

The British pipe threaded products found within this catalog intended for use where pressure tight joints are made on the threads are manufactured in accordance with British Standard (BS) 21 and International Standards Organization (ISO) 7-1. The threads are designated as follows:

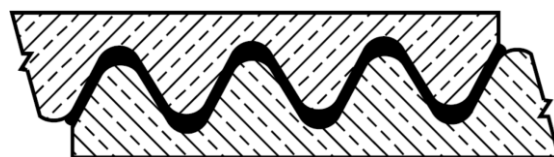
Rp: Internal parallel
Rc: Internal taper
Rs: Special external parallel
R: External taper

Use of a thread sealant is recommended with the R series thread. An elastomeric peripheral seal should be used with the Rs thread.

Non-Pressure Tight

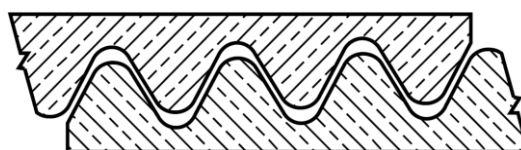
All British Standard parallel pipe threads manufactured in this catalog according to BS2779 and ISO 228-1 are intended for use where pressure tight joints are not made on the threads. An elastomeric peripheral seal should be used. These threads are designated as follows:

G: Internal Thread
GA, External thread, tight tolerance classification
GB, External thread, general purpose and assumed if no classification designation is given



Bs21 British Standard Pipe Thread for Pressure Tight Joints

Metal to metal contact provides seal as tapered thread is wrench-tightened.



Bs2779 British Standard Pipe Thread for Non-Pressure Tight Joints

Thread tolerances allow for possible clearance between threads. Will not prevent leakage paths.

Thread Designations and Standards for Threads Used in Fluid Connectors

	ABBREVIATION	DESCRIPTION	APPLICABLE STD.
STRAIGHT PIPE	NPCS	AMERICAN STANDARD STRAIGHT PIPE COUPLINGS	ANSI B1.20.1 FED-STD-H28/7
	NPSF	DRYSEAL AMERICAN STANDARD FUEL INTERNAL STRAIGHT PIPE THREADS (GENERALLY SED IN SOFT OR DUCTILE MATERIALS TO MATE WITH NPTF RNAL TAPER THREADS)	SAEJ476 ANSI B1.20.3 FER-STD-H28/8
	NPSI	DRYSEAL AMERICAN INTERMEDIATE INTERNAL STRAIGHT PIPE THREADS (FOR BRITTLE OR HARD MATERIALS INTENDED TO MATE WITH PTF-SAE SHORT EXTERNAL TAPER THREADS)	SAEJ476 ANSI B1.20.3 FER-STD-H28/8
	NPSM	AMERICAN STANDARD STRAIGHT PIPE THREADS FOR FREE-FITTING MECHANIC JOINTS FOR FIXTURES(THESE THREADS FIT FREELY OVER NPTF THREADS. THEY ARE USED IN SWIVEL NUTS OF 07 ADAPTERS)	ANSI B1.20.3 FER-STD-H28/7
TAPER PIPE	ANPT	AERONAUTICAL NATIONAL TAPER PIPE THREADS (SIMILAR TO NPT WITH VARIOUS ADDITIONAL REQUIREMENTS IN GAGING)	MIL-P-7105
	NPT	AMERICAN STANDARD TAPER PIPE THREADS FOR GENERAL USE	ANSI B1.20.3 FER-STD-H28/7
	NPTF	DRYSEAL AMERICAN STANDARD TAPER PIPE THREADS (USED IN ALL OF OUR STEEL AND BRASS FITTINGS)	SAEJ476 ANSI B1.20.3 FER-STD-H28/8
	PTF-SAE SHORT	DRYSEAL SAE SHORT TAPER PIPE THREADS(MAINLY USED IN LOW PRESSURE PNEUMATIC AND FUEL APPLICATIONS)	SAEJ476 ANSI B1.20.3 FER-STD-H28/8
	PTF-SPL SHORT	DRYSEAL SPECIAL SHORT TAPER PIPE THREADS	ANSI B1.20.3
	PTF-SPL EXTRA SHORT	DRYSEAL SPECIAL EXTRA SHORT TAPER PIPE THREADS	ANSI B1.20.3
UNIFIED THREADS	UN	UNIFIED CONSTANT PITCH THREADS (STANDARD SERIES:4.6.8.12.16.20.28.32)	ANSI B1.1 ED-STD-H28/2
	UNC	UNIFIED COARSE THREADS	ANSI B1.1 FED-STD-H28/2
	UNEF	UNIFIED EXTRA FINE THREADS	ANSI B1.1 FED-STD-H28/2
	UNF	UNIFIED FINE THREADS	ANSI B1.1 FED-STD-H28/2
	UNS	UNIFIED SPECIAL PITCH THREADS	ANSI B1.1 FED-STD-H28/3
	UNJ	UNIFIED CONTROLLED ROOT RADIUS THREADS	ANSI B1.15 FED-STD-H28/4
METRIC THREADS	M	METRIC SCREW THREADS-M PROFILE	ISO 261 ANSI B1.13M FEDPSTDPH28/21
	M-KEG	METRIC TAPER THREADS(MAINLY USED IN GERMANY)	DIN 158
BRITISH STANDARD	R(BSPT)	BRITISH STANDARD TAPER PIPE THREADS,EXTERNAL	BS 21 ISO 7/1
	Rc(BSPT)	BRITISH STANDARD TAPER PIPE THREADS,EXTERNAL	BS 21 ISO 7/1
	Rp or G(BSPP)	BRITISH STANDARD PIPE(PARALLEL)THREADS	BS 2779 ISO 228/1
JAPANESE STANDARD	PF ²	JIS PARALLEL PIPE THREADS	JIS 202 ISO 228/1
	PT ²	JIS TAPER PIPE THREADS	JIS 203 ISO 7/1
	PS	JIS PARALLEL INTERNAL PIPE THREADS(TO MATE WITH PT THREADS)	JIS 203

THREAD CHART

O.D TUBEING SIZE	1/8	5/32	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4
STANDARD PIPE SIZE NPTF	1/8-27			1/4-18		3/8-18		1/2-14		3/4-14		1-11.5	1-1/4-11.5
S.A.E 45° FLARE	5/16-24		3/8-24	7/16-20	1/2-20	5/8-18	1 1/16-16	3/4-16	7/8-14	1 1/16-14	1 1/4-12	1 3/8-12	
INTERNAL FLARE	5/16-24		3/8-24	7/16-24	1/2-20	5/8-18	1 1/16-18	3/4-18	7/8-18	1 1/16-16			
COMPRESSION	5/16-24	5/16-24	3/8-24	7/16-20	1/2-20	9/16-24	5/8-24	1 1/16-20	13/16-18	1-18	1 1/8-18		
FLARELESS COMPRESSION (PLASTIC TUBE)	5/16-24		3/8-24	3/8-24	7/16-24	1/2-24	1 1/16-20						
AIR BRAKE COPPER TUBE				7/16-24		17/32-24		11/16-20	13/16-18	1-18			
DOUBLE COMPRESSION	5/16-24		3/8-24	7/16-24	1/2-20	9/16-20		11/16-16					
NPSM SWIVEL THREAD	1/8-27			1/4-18		3/8-18		1/2-14		3/4-14		1-11.5	1-1/4-11.5
BRITISH THREAD BSPP/BSPT	1/8-28			1/4-19		3/8-19		1/2-14		3/4-14		1-11	1-1/4-11
METRIC THREAD	M10*1.0		M12*1.5	M14*1.5	M16*1.5	M18*1.5	M20*1.5	M22*1.5	M24*1.5	M26*1.5			

Inches x 25.4=Millimeters(mm)

Inches x2.54= Centimeters(cm)

Inches x. 254=Decimeters(dm)

Feetx.3048=Meters(m)

Yards x. 9144= Meters(m)

Psix.0689= Bars (Bar)

Bars x 100 Kilopascals (kPa)

Psix.0069= Megapascals (MPa)

Pound Inches x. 113 =Newton Meters(N-m)

Pound Feet x 1.356=Newton Meters(N.m)

Millimeters x.0394=Inches

Centimeters x.3937= Inches

Meters x 3.281=Feet

Meters x 1.0936- Yards

Bars x 14.5= Psi Megapascals x 145=Psi

Newton Meters x 8.85=Pound Inches

Newton Meters x.737= Pound Feet

Millimeters to Fractions to Decimals Conversion

MM	INCHES		MM	INCHES		MM	INCHES		MM	INCHES	
	FRACTION	DECIMAL		FRACTION	DECIMAL		FRACTION	DECIMAL		FRACTION	DECIMAL
.3969	1/64	.0156	6.7469	17/64	.2656	13.0969	33/64	.5156	19.4469	49/64	.7656
.7938	1/32	.0312	7.1438	9/32	.2812	13.4938	17/32	.5312	19.8438	25/32	.7812
1.1906	3/64	.0468	7.5406	19/64	.2968	13.8906	35/61	.5468	20.2406	51/64	.7968
1.5875	1/16	.0625	7.9375	5/16	.3125	14.2875	9/16	.5625	20.2375	13/16	.8125
1.9844	5/64	.0781	8.3344	21/64	.3281	14.6844	37/64	.5781	21.0344	53/64	.8281
2.3812	5/32	.0937	8.7312	11/32	.3437	15.0812	19/32	.5937	21.4312	27/32	.8437
2.7781	7/64	.1093	9.1281	23/64	.3593	14.4781	39/64	.6093	21.8281	55/64	.8593
3.1750	1/8	.1250	9.5250	3/8	.3750	15.8750	5/8	.6250	22.2250	7/8	.8750
3.5719	9/64	.1406	9.9219	25/64	.3906	16.2719	41/64	.6406	22.6219	57/64	.8906
3.9688	5/32	.1562	10.3188	13/32	.4062	16.6688	21/32	.6562	23.0188	29/32	.9062
4.3656	11/64	.1718	10.7156	27/64	.4218	17.0656	43/64	.6718	23.4156	59/64	.9218
4.7625	3/16	.1875	11.1125	7/16	.4375	17.4625	11/16	.6875	23.8125	15/16	.9375
5.1594	13/64	.2031	11.5094	29/64	.4531	17.8594	45/64	.7031	24.2094	61/64	.9531
5.5562	7/32	.2187	11.9062	15/32	.4687	18.2562	23/32	.7187	24.6062	31/32	.9687
5.9531	15/64	.2343	12.3031	31/64	.4843	18.6531	47/64	.7343	25.0031	63/64	.9843
6.3500	1/4	.2500	12.7000	1/2	.5000	19.0500	3/4	.7500	25.4000	1	1.000

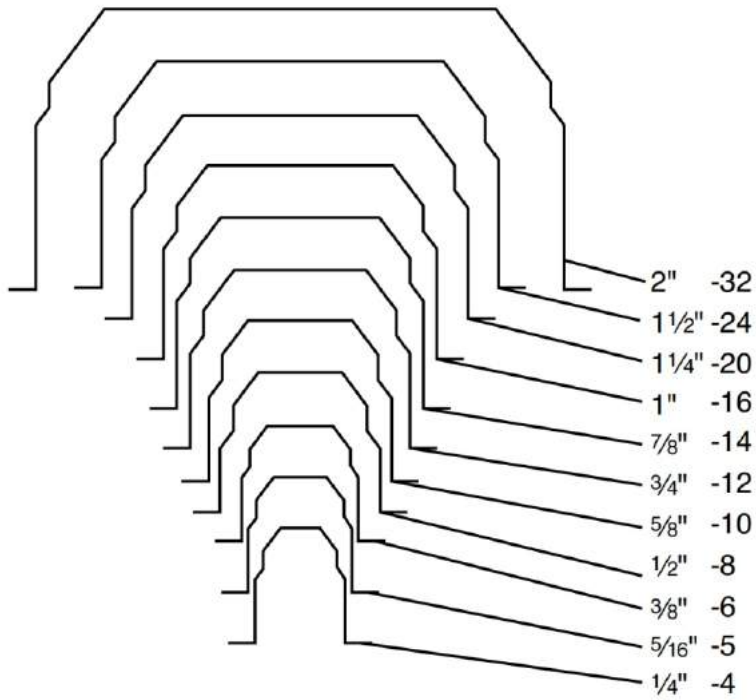
Pressure Conversions

KILOPASCALS (KPA)	MEGAPASCALS (MPA)	BAR (BAR)	KILOGRAMS PER SQUARE CENTIMETER (KGF/CM2)	POUNDS PER SQUARE INCH (PSI)
100	.1	1	1.02	14.50
200	.2	2	2.04	29.00
300	.3	3	3.06	43.50
400	.4	4	4.08	58.00
500	.5	5	5.10	72.50
600	.6	6	6.12	87.00
700	.7	7	7.14	101.50
800	.8	8	8.16	116.00
900	.9	9	9.18	130.50
1000	1.0	10	10.20	145.00
2000	2.0	20	20.40	290.10
3000	3.0	30	30.60	435.10
4000	4.0	40	40.80	580.20
5000	5.0	50	51.00	725.20
6000	6.0	60	61.20	870.20
7000	7.0	70	71.40	1015.30
8000	8.0	80	81.60	1160.30
9000	9.0	90	91.80	1305.30
10000	10.0	100	102.00	1450.00
20000	20.0	200	204.00	2901.00
30000	30.0	300	306.00	4351.00
40000	40.0	400	408.00	5802.00
50000	50.0	500	510.00	7252.00
60000	60.0	600	612.00	8702.00
70000	70.0	700	714.00	10153.00
80000	80.0	800	816.00	11603.00
90000	90.0	900	918.00	13053.00
100000	100.0	1000	1020.00	14504.00
200000	200.0	2000	2040.00	29008.00
300000	300.0	3000	3060.00	43511.00

POUNDS PER SQUARE INCH (PSI)	KILOPASCALS (KPA)	MEGAPASCALS (MPA)	BAR (BAR)	KILOGRAMS PER SQUARE CENTIMETER (KGF/CM2)
10	68.90	.07	.70	.70
20	137.90	.14	1.41	1.41
30	206.80	.21	2.10	2.11
40	275.80	.28	2.80	2.81
50	344.70	.34	3.40	3.52
60	413.70	.41	4.10	4.22
70	482.60	.48	4.80	4.92
80	551.60	.55	5.50	5.63
90	620.50	.62	6.20	6.33
100	689.00	.70	6.90	7.00
200	1379.00	1.40	13.80	14.10
300	2068.00	2.10	20.70	21.10
400	2758.00	2.80	27.60	28.10
500	3447.00	3.40	34.50	35.20
600	4137.00	4.10	41.40	42.20
700	4826.00	4.80	48.30	49.20
800	5516.00	5.50	55.20	56.30
900	6205.00	6.20	62.10	63.30
1000	6895.00	6.90	68.90	70.30
2000	13790.00	13.80	137.90	140.70
3000	20684.00	20.70	206.80	211.00
4000	27579.00	27.60	275.80	281.30
5000	34474.00	34.50	344.70	351.60
6000	41369.00	41.40	413.70	421.90
7000	48263.00	48.30	482.60	492.30
8000	55158.00	55.20	551.60	562.60
9000	62053.00	62.10	620.50	632.90
10000	68948.00	68.90	689.00	703.00
20000	137895.00	137.90	1379.00	1406.00
30000	206843.00	206.80	2068.00	2110.00

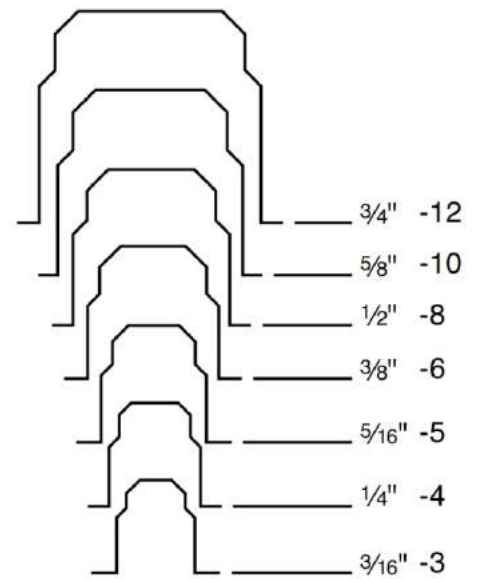
SAE (JIC) 37° Flare Nose Sizes

Actual Size

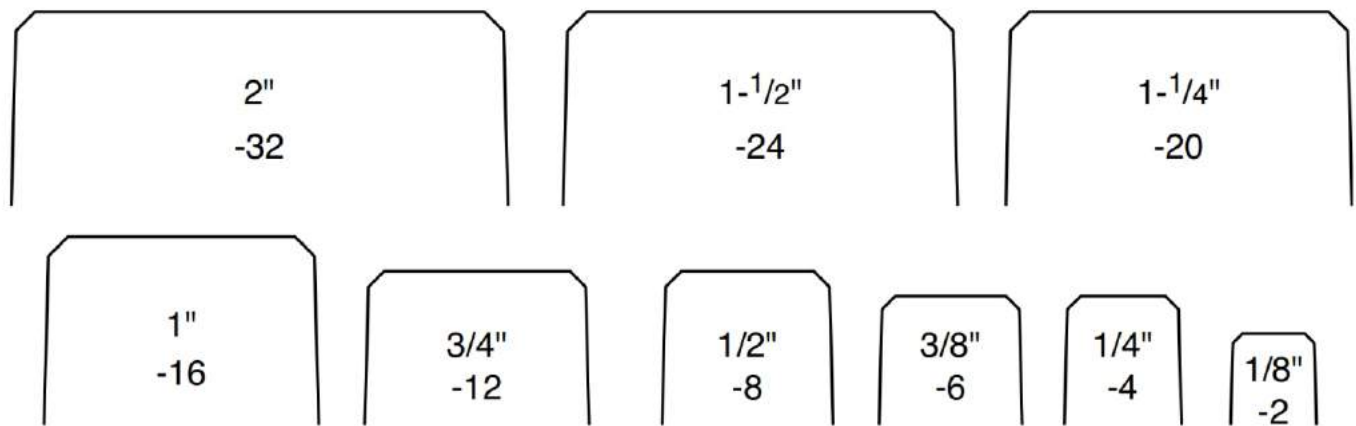


SAE 45° Flare Nose Sizes

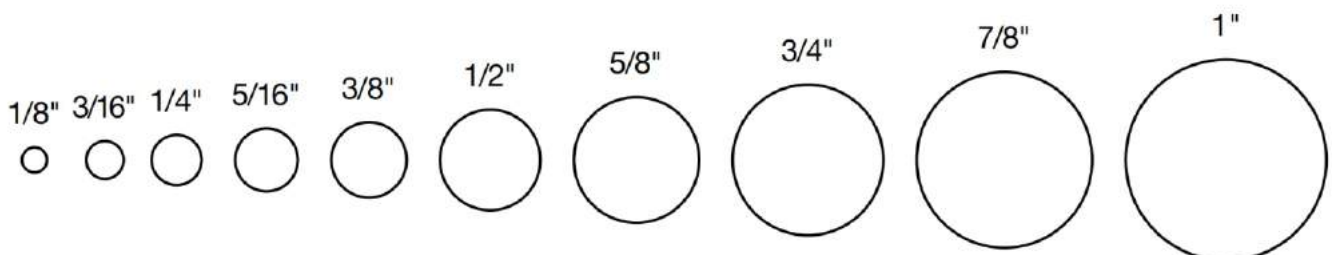
Actual Size



Male Pipe Thread Sizes



Actual Outside Diameters of Tubing





Legines

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