

Hose & Fittings



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Technical Information

Thread Chart 1

Size	SAE 45° Flare	Inverted Flare	JIC 37° Flare	SAE O-Ring	Flat Face Thread
1/16					
1/8 (2)	5/16-24	5/16-24	5/16-24	5/16-24	
3/16 (3)	3/8-24	3/8-24	3/8-24	3/8-24	
1/4 (4)	7/16-20	7/16-24	7/16-20	7/16-20	9/16-18
5/16 (5)	1/2-20	1/2-20	1/2-20	1/2-20	
3/8 (6)	5/8-18	5/8-18	9/16-18	9/16-18	11/16-16
7/16 (7)	11/16-16	11/16-18			
1/2 (8)	3/4-16	3/4-18	3/4-16	3/4-16	
5/8 (10)	7/8-14	7/8-18	7/8-14	7/8-14	1-14
3/4 (12)	1-1/16-14	1-1/16-16	1-1/16-12	1-1/16-12	1-3/16-12
7/8 (14)	1-1/4-12		1-3/16-12	1-3/16-12	
1 (16)	1-3/8-12		1-5/16-12	1-5/16-12	1-7/16-12
1-1/4 (20)			1-5/8-12	1-5/8-12	1-11/16-12
1-1/2 (24)			1-7/8-12	1-7/8-12	2-12
2 (32)			2-1/2-12	2-1/2-12	
2-1/2 (40)			3-12		
3 (48)			3-1/2-12		

Thread Chart 2

Size	Pipe Thread (NPTF)	Compression	Internal O-Ring	British Thread BSPP/BSPT	Metric Thread
1/16	1/16-27				
1/8 (2)	1/8-27	5/16-24		1/8-28	(10) M10-1.0
3/16 (3)		3/8-24			(12) M12-1.5
1/4 (4)	1/4-18	7/16-24	1/2-20	1/4-19	(14) M14-1.5
5/16 (5)		1/2-24	9/16-18		(16) M16-1.5
3/8 (6)	3/8-18	9/16-24	5/8-18	3/8-19	(18) M18-1.5
7/16 (7)		5/8-24			(20) M20-1.5
1/2 (8)	1/2-14	11/16-20	7/8-14	1/2-14	(22) M22-1.5
5/8 (10)		13/16-18	1-14		(24) M24-1.5
3/4 (12)	3/4-14	1-18	1-1/8-12	3/4-14	(26) M26-1.5
7/8 (14)		1-1/8-18	1-1/2-12		(27) M27-2.0
1 (16)	1-11-1/2		1-3/4-12	1-11	(30) M30-2.0
1-1/4 (20)	1-1/4-11-1/2	2-12		1-1/4-11	(33) M33-2.0
1-1/2 (24)	1-1/2-11-1/2			1-1/2-11	(36) M36-2.0
2 (32)	2-11-1/2			2-11	(42) M42-2.0
2-1/2 (40)	2-1/2-8				(48) M48-2.0

Technical Information

Association Abbreviations

SAE International (SAE) is a professional organization for mobility engineering professionals in the aerospace, automotive, and commercial vehicle industries. The society is a standards development organization for the engineering of powered vehicles of all kinds including cars, trucks, boats, aircraft and others.

AGA- American Gas Association

JIC- Joint Industrial Committee

ASA- American Statistical Association

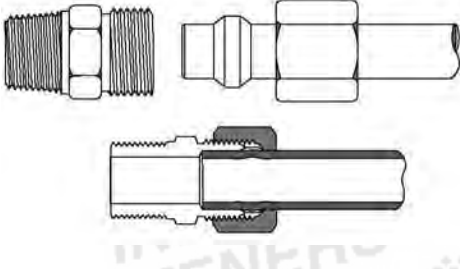
ASME- American Society of Mechanical Engineers

Threading Information

Abbreviation	System Name
BSPP	British Standard Pipe Parallel
BSPT	British Standard Pipe Taper
GHT	Garden Hose Thread
IPS	Iron Pipe Straight Thread
IPT	Iron Pipe Thread
JIC	Joint Industrial Committee
NH or NST	American Standard Fire Hose Coupling Thread (National Hose thread also known as National Standard Thread)
NPT	American Standard Taper Pipe Thread (National Pipe Tapered)
NPTF	American Standard Taper Pipe Fuel Dryseal Thread (National Pipe Tapered Fuel)
NPSH	American Standard Straight Pipe for Hose Couplings (National Pipe Straight Hose)
NPSM	American Standard Straight Mechanical Joints (National Pipe Straight Mechanical)

The Five Basic Types of Fittings

Compression



Applications: Plastic, copper and aluminum tubing

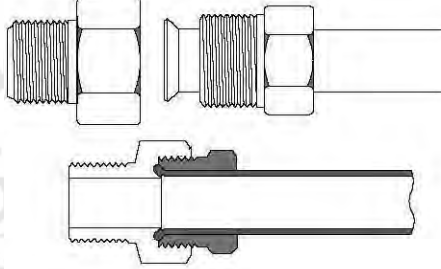
Advantages: Lower initial cost. No flaring required- easy to assemble. Larger selection of styles and sizes.

Disadvantages: Low vibration characteristics

Available Choices

Air Brake Hose Fittings
Brass Compression Fittings
Brass DOT Air Brake Fittings
Brass Transmission Fittings

Inverted Flare



Applications: Brass, copper, aluminum and steel hydraulic tubing that can be flared.

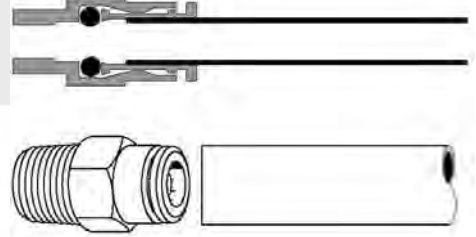
Advantages: Low initial cost. Reusable. The threads and seats are internal and are protected. Excellent vibration resistance. Very close tube bends.

Disadvantages: Tubing has to be flared

Available Choices

Brass Inverted Flare Fittings

Push-In



Applications: Plastic tubing

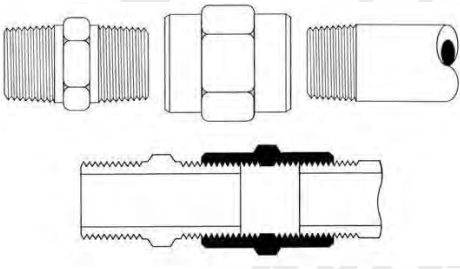
Advantages: Extremely easy to use, no tools required. Great for tight spaces

Disadvantages: Higher initial costs. Less selection of styles and configurations available.

Available Choices

Brass DOT Push-In Fittings
Brass Push-In Fittings
Composite DOT Push-In Fittings

Pipe



Applications: Brass, bronze, steel, and iron pipe

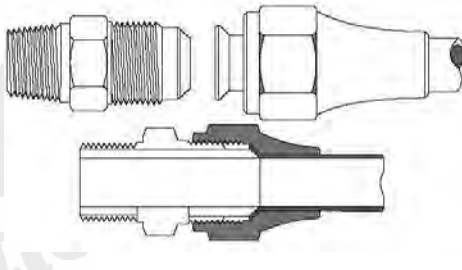
Advantages: Large selection of sizes and configurations. Multiple material selections for specific applications.

Disadvantages: Higher cost. Pipe must be threaded. Not that versatile.

Available Choices

Black Pipe Fittings
Brass Pipe Fittings
Steel Pipe Fittings

SAE 45° Flare



Applications: Brass, copper, aluminum and steel hydraulic tubing that can be flared.

Advantages: Low initial cost. Reusable. Good vibration resistance.

Disadvantages: Tubing has to be flared

Available Choices

Brass SAE 45° Flare Fittings

Parker Crossover

Item ID	Our #	Item ID	Our #	Item ID	Our #	Item ID	Our #
1/2FF	75048	126HBL-5-4	72103	150F-4-2	70186	169C-6-2	70416
1/2GG	75008	126HBL-6-2	72105	150F-4-4	70187	169C-6-4	70417
1/2X1/4PTR	75104	126HBL-6-4	72106	150F-5-4	70189	169C-6-6	70418
1/2X3/8FF	75047	126HBL-6-6	72107	150F-6-4	70190	169C-6-8	70419
1/2X3/8PTR	75105	126HBL-8-6	72110	150F-6-6	70191	169C-8-4	70421
1/4FF	75042	126HBL-8-8	72111	150F-8-6	70192	169C-8-6	70422
1/4GG	75003	129HB-4-2	72220	150F-8-8	70193	169C-8-8	70423
1/4X1/8PTR	75100	129HB-4-4	72221	151F-10-8	70209	169PMT-4-2	71970S
10-8HTX	77216	129HB-5-4	72223	151F-4-2	70202	169PMT-4-4	71971S
10CTX	77064	129HB-6-2	72225	151F-5-4	70204	169PMT-6-2	71973S
10FNTX	76010	129HB-6-4	72226	151F-6-4	70205	169PMT-6-4	71974S
10FTX	77086	129HB-6-6	72227	151F-6-6	70206	169PMT-6-6	71975S
10HTX	77217	129HB-8-6	72230	151F-8-6	70207	169PMTNS-10-8	71981
10PNTX	76040	12CTX	77067	151F-8-8	70208	169PMTNS-4-2	71970
1120-10B-BLK	72308	12FNTX	76012	155F-10	70252	169PMTNS-4-4	71971
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1120-2.5A-BLK	72299	12HTX	77222	155F-5	70248	169PMTNS-6-2	71973
1120-2A-BLK	72300	12PNTX	76042	155F-6	70249	169PMTNS-6-4	71974
1120-3A-BLK	72302	144F-10	70082	155F-8	70251	169PMTNS-6-6	71975
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1120-6B-BLK	72304	144F-4	70077	159F-10-8	70236	169PMTNS-8-4	71977
1120-8B-BLK	72306	144F-5	70078	159F-4-2	70230	169PMTNS-8-6	71978
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12-10HTX	77221	145F-10-8	70099	159F-6-4	70233	16PNTX	76046
122HBL-4	72212	145F-4-2	70091	159F-6-6	70234	170C-3-2	70431
122HBL-5	72213	145F-4-4	70092	159F-8-6	70235	170C-4-2	70432
122HBL-6	72214	145F-5-2	70093	164C-2	70355	170C-6-4	70434
122HBL-8	72216	145F-6-4	70094	164C-4	70357	170C-8-6	70436
125HB-2-2	72150	145F-6-6	70095	164C-5	70358	171C-3-2	70440
125HB-3-2	72155	145F-8-6	70097	164C-6	70359	171C-4-2	70441
125HB-3-4	72156	145F-8-8	70098	164C-8	70361	171C-4-4	70442
125HBL-10-12	72197	149F-10-6	70180	164PLP-2	71872	171C-6-4	70444
125HBL-10-6	72195	149F-10-8	70181	164PLP-4	71874	171C-8-6	70446
125HBL-10-8	72196	149F-12-12	70183	164PLP-5	71875	172C-2-2	70450
125HBL-12-12	72202	149F-12-8	70182	164PLP-5/32	71873	172C-3-2	70451
125HBL-12-8	72201	149F-2-2	70165	164PLP-6	71876	172C-4-2	70452
125HBL-4-2	72160	149F-3-2	70166	164PLP-8	71877	172C-4-4	70453
125HBL-4-4	72161	149F-4-2	70167	164PMT-4	71954	172C-6-4	70455
125HBL-4-6	72162	149F-4-4	70168	164PMT-6	71955	172C-8-6	70457
125HBL-5-2	72167	149F-4-6	70169	164PMT-8	71956	174C-4-2	70467
125HBL-5-4	72168	149F-5-2	70170	165C-3	70366	179HB-10-8	72180
125HBL-5-6	72169	149F-5-4	70171	165C-4	70367	179HB-12-8	72181
125HBL-6-2	72175	149F-6-2	70172	165C-5	70368	179PMT-8-6	71978S
125HBL-6-4	72176	149F-6-4	70173	165C-6	70369	179PMTNS-10-6	71996
125HBL-6-6	72177	149F-6-6	70174	165C-8	70371	179PMTNS-10-8	71997
125HBL-6-8	72178	149F-6-8	70175	169C-10-8	70424	179PMTNS-4-2	71988
125HBL-8-12	72188	149F-8-4	70177	169C-12-8	70425	179PMTNS-4-4	71989
125HBL-8-4	72185	149F-8-6	70178	169C-3-2	70411	179PMTNS-6-4	71991
125HBL-8-6	72186	149F-8-8	70179	169C-4-2	70412	179PMTNS-6-6	71992
125HBL-8-8	72187	14FNTX	76014	169C-4-4	70413	179PMTNS-8-6	71994
126HBL-4-2	72100	14PNTX	76044	169C-5-2	70414	179PMTNS-8-8	71995
126HBL-4-4	72101	150F-10-8	70194	169C-5-4	70415	1FF	75053

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Item ID	Our #	Item ID	Our #	Item ID	Our #	Item ID	Our #
1GG	75013	215PNL-4-30	70630	2214P-8-8	70746	269HB-8-8	72237
1X1/2PTR	75112	215PNL-6-15	70640	2224P-2	70760	269TF-2-2	71661
1X3/4PTR	75113	215PNL-6-20	70641	2224P-4	70762	269TF-5/32-2	71667
207ACBH-2	70769	215PNL-6-25	70642	2224P-6	70764	270NTA-4-2	71613
207ACBH-4	70770	215PNL-6-30	70643	2224P-8	70766	270NTA-6-4	71614
207ACBH-6	70773	215PNL-8-15	70650	2225P-2	70750	270NTA-6-6	71615
207ACBH-8	70774	215PNL-8-20	70651	2225P-4	70752	270NTA-8-6	71616
207ACBHS-4	70772	215PNL-8-25	70652	2225P-6	70754	3/4FF	75051
207P-2	70540	215PNL-8-30	70653	2225P-8	70756	3/4GG	75011
207P-4	70542	216P-12	70722	222P-12-8	70698	3/4X1/2FF	75050
207P-6	70544	216P-12-8	70734	222P-2-2	70680	3/4X1/2PTR	75109
207P-8	70546	216P-2	70715	222P-4-2	70692	3/4X3/8PTR	75108
208P-12-8	70508	216P-4	70717	222P-4-4	70682	3/8FF	75045
208P-4-2	70502	216P-4-2	70727	222P-6-4	70694	3/8GG	75005
208P-6-2	70504	216P-6	70719	222P-6-6	70684	3/8X1/4PTR	75102
208P-6-4	70505	216P-6-2	70729	222P-8-6	70696	3/8X1/8PTR	75101
208P-8-4	70506	216P-6-4	70730	222P-8-8	70686	32PTC-10	71933P
208P-8-6	70507	216P-8	70721	244IFHD-3	70972	32PTC-4	71930P
209P-12-4	70590	216P-8-4	70732	244IFHD-4	70974	32PTC-6	71931P
209P-12-6	70591	216P-8-6	70733	244IFHD-5	70976	32PTC-8	71932P
209P-12-8	70592	218P-12	70711	244IFHD-6	70978	364PTC-4	71954P
209P-16-12	70594	218P-2	70704	249IFHD-10-8	70908	364PTC-6	71955P
209P-16-8	70593	218P-4	70706	249IFHD-2-2	70895	364PTC-8	71956P
209P-4-2	70582	218P-6	70708	249IFHD-3-2	70896	369PTC-4-2	71970P
209P-6-2	70584	218P-8	70710	249IFHD-4-2	70897	369PTC-4-4	71971P
209P-6-4	70585	219P-2	70595	249IFHD-4-4	70898	369PTC-6-4	71974P
209P-8-2	70587	219P-4	70596	249IFHD-5-4	70900	369PTC-6-6	71975P
209P-8-4	70588	219P-6	70597	249IFHD-6-2	70902	369PTC-8-6	71978P
209P-8-6	70589	219P-8	70598	249IFHD-6-4	70903	41FL-10	70019
20FNTX	76020	2200P-2-2	70510	249IFHD-6-6	70904	41FL-3	70011
20PNTX	76048	2200P-4-4	70512	249IFHD-8-6	70906	41FL-4	70012
210P-2	70600	2200P-6-6	70514	251IFHD-3-2	70942	41FL-5	70013
210P-4	70602	2200P-8-8	70516	252IFHD-5-2	70966	41FL-6	70014
211P-2	70570	2202P-12-12	70668	255IFHD-4	70933	41FL-8	70018
211P-4	70572	2202P-2-2	70660	259IFHD-3-2	70876	41FS-10	70033
211P-6	70574	2202P-4-2	70662	259IFHD-4-2	70877	41FS-12	70034
211P-8	70576	2202P-4-4	70663	259IFHD-5-2	70878	41FS-4	70027
212P-4	70552	2202P-6-6	70665	259IFHD-5-4	70879	41FS-5	70028
213P-2	70560	2202P-8-8	70667	259IFHD-6-4	70881	41FS-6	70029
213P-4	70562	2203P-2	70520	259IFHD-8-6	70883	41FS-8	70032
213P-6	70564	2203P-4	70522	264C-3	70356	41FS-10	70828
213P-8	70566	2203P-6	70524	264NTA-4	71598	41FS-12	70829
215PN-12	70617	2203P-8	70526	264NTA-6	71601	41IFS-3	70801
215PN-2	70610	2205P-2	70530	264NTA-8	71603	41IFS-4	70810
215PN-4	70612	2205P-4	70532	265NTA-10	71592	41IFS-5	70818
215PN-6	70614	2205P-6	70534	265NTA-4	71589	41IFS-6	70821
215PN-8	70616	2205P-8	70536	265NTA-6	71590	41IFS-8	70825
215PNL-2-15	70620	220P-2	70670	265NTA-8	71591	42F-10	70057
215PNL-2-20	70621	220P-4	70672	269C-2-2	70410	42F-10-8	70068
215PNL-2-25	70622	220P-6	70674	269HB-10-6	72234	42F-12	70058
215PNL-2-30	70623	2214P-2-2	70740	269HB-10-8	72235	42F-2	70050
215PNL-4-15	70627	2214P-4-4	70742	269HB-12-8	72236	42F-3	70051
215PNL-4-20	70628	2214P-6-6	70744	269HB-8-4	72232	42F-4	70052

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Item ID	Our #	Item ID	Our #	Item ID	Our #	Item ID	Our #
42F-5	70053	48IFHD-5-4	70850	62-4	70332	640F-5	70128
42F-6	70054	48IFHD-6-2	70852	62C-10	70337	640F-6	70129
42F-6-4	70065	48IFHD-6-4	70853	62C-12	70338	640F-8	70131
42F-8	70056	48IFHD-6-6	70854	62C-2	70330	664FHD-4-4	70255
42F-8-6	70067	48IFHD-8-6	70856	62C-3	70331	66C-10-8	70385
42IFHD-2	70865	4C5OX	78052	62C-5	70333	66C-2-2	70375
42IFHD-3	70866	4CTX	77052	62C-6	70334	66C-3-2	70376
42IFHD-4	70867	4F5OX	78002	62C-8	70336	66C-4-2	70377
42IFHD-5	70868	4FNTX	76004	62CBH-4	70461	66C-4-4	70378
42IFHD-6	70869	4FTX	77073	62CBH-6	70462	66C-5-2	70379
42IFHD-8	70871	4HTX	77205	62NBH-10	71632	66C-5-4	70380
4-6C5OX	78053	4PNTX	76034	62NBH-4	71629	66C-6-2	70381
46F-10-8	70118	5FNTX	76005	62NBH-6	71630	66C-6-4	70382
46F-3-2	70106	5HTX	77207	62NBH-8	71631	66C-8-6	70384
46F-4-2	70107	5PNTX	76035	62NTA-10	71557	66NBH-8-6	70775
46F-4-4	70108	60C-10	70307	62NTA-12	71558	66NTA-6-2	71593
46F-5-2	70109	60C-12	70308	62NTA-4	71552	66NTA-6-4	71594
46F-5-4	70110	60C-2	70300	62NTA-6	71554	66NTA-6-6	71595
46F-6-2	70111	60C-3	70301	62NTA-8	71556	66NTA-8-6	71596
46F-6-4	70112	60C-4	70302	62PLP-2	71850	68C-10-8	70405
46F-6-6	70113	60C-5	70303	62PLP-4	71852	68C-12-8	70406
46F-6-8	70114	60C-6	70304	62PLP-5	71853	68C-2-2	70390
46F-8-4	70115	60C-7	70305	62PLP-5/32	71851	68C-3-2	70391
46F-8-6	70116	60C-8	70306	62PLP-6	71854	68C-4-2	70393
46F-8-8	70117	60NTA-10	71507	62PLP-8	71855	68C-4-4	70394
46IFHD-3-2	70951	60NTA-12	71508	62PMT-10	71933	68C-5-2	70395
46IFHD-4-2	70952	60NTA-3	71501	62PMT-4	71930	68C-5-4	70396
46IFHD-5-2	70953	60NTA-4	71502	62PMT-6	71931	6-8C5OX	78056
46IFHD-6-4	70954	60NTA-6	71504	62PMT-8	71932	68C-6-2	70397
46IFHD-8-6	70956	60NTA-8	71506	62RB-6	71810	68C-6-4	70398
48F-10-6	70155	60RB-6	71815	62RB-8	71811	68C-6-6	70399
48F-10-8	70156	60RB-8	71816	62TF-2	71657	68C-6-8	70400
48F-12-12	70158	60TF-2	71655	62TF-5/32	71664	68C-7-4	70401
48F-12-8	70157	60TF-5/32	71662	639F-10	70007	68C-8-4	70402
48F-2-2	70140	61C-10	70322	639F-4	70002	68C-8-6	70403
48F-3-2	70141	61C-12	70323	639F-5	70003	68C-8-8	70404
48F-4-2	70142	61C-2	70315	639F-6	70004	6-8F5OX	78008
48F-4-4	70143	61C-3	70316	639F-8	70006	68HB-10-6	72208
48F-5-2	70145	61C-4	70317	63NTA-10	71587	68HB-10-8	72209
48F-5-4	70146	61C-5	70318	63NTA-12	71588	68HB-12-8	72199
48F-6-2	70147	61C-6	70319	63NTA-4	71582	68HB-8-4	72206
48F-6-4	70148	61C-7	70320	63NTA-6	71584	68HB-8-8	72205
48F-6-6	70149	61C-8	70321	63NTA-8	71586	68PMT-10-6	71959
48F-6-8	70150	61NTA-10	71547	63PT-10-62	70297	68PMT-10-8	71960
48F-8-4	70152	61NTA-12	71548	63PT-2-23	70290	68PMT-12-8	71961
48F-8-6	70153	61NTA-3	71541	63PT-3-40	70291	68PMT-4-2	71944
48F-8-8	70154	61NTA-4	71542	63PT-4-40	70292	68PMT-4-4	71945
48IFHD-10-8	70858	61NTA-6	71544	63PT-5-40	70293	68PMT-4-6	71946
48IFHD-2-2	70845	61NTA-8	71546	63PT-6-62	70294	68PMT-6-2	71947
48IFHD-3-2	70846	61RB-6	71817	63PT-8-62	70296	68PMT-6-4	71948
48IFHD-4-2	70847	61RB-8	71818	640F-10	70132	68PMT-6-6	71949
48IFHD-4-4	70848	61TF-2	71656	640F-3	70126	68PMT-6-8	71950
48IFHD-5-2	70849	61TF-5/32	71663	640F-4	70127	68PMT-8-4	71951

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Item ID	Our #	Item ID	Our #	Item ID	Our #	Item ID	Our #
68PMT-8-6	71952	PV607-4	72264	VS279NTA-10-8	71645	W172PLP-6-4	71909
68PMT-8-8	71953	SV404P-10-8	72255	VS279NTA-4-2	71639	W172PLP-6-6	71910
68RB-6-4	71805	SV404P-12-8	72256	VS279NTA-4-4	71638	W172PLP-8-6	71911
68RB-6-6	71806	V304C-4-2	71101	VS279NTA-6-2	71636	W172PLP-8-8	71912
68RB-6-8	71807	V402P-2-2	71114	VS279NTA-6-4	71640	W68PLP-2-2	71857
68RB-8-6	71808	V402P-4-4	71115	VS279NTA-6-6	71641	W68PLP-2-4	71858
68RB-8-8	71809	V402P-6-6	71116	VS279NTA-8-4	71642	W68PLP-4-2	71860
68RBSG-6-4	71800	V403P-2-2	71125	VS279NTA-8-6	71643	W68PLP-4-4	71861
68RBSG-6-6	71801	V403P-4-4	71105	VS279NTA-8-8	71644	W68PLP-5/32-2	71859
68RBSG-6-8	71802	V404P-10-6	72251	VS68NTA-10-6	71526	W68PLP-5-2	71862
68RBSG-8-6	71803	V404P-6-6	72250	VS68NTA-10-8	71527	W68PLP-5-4	71863
68RBSG-8-8	71804	V405P-6-6	72280	VS68NTA-12-12	71530	W68PLP-6-2	71864
68TF-2-1	71658	V405P-8-8	72281	VS68NTA-12-8	71529	W68PLP-6-4	71865
68TF-2-2	71659	V409F-10-8	72276	VS68NTA-3-1	71512	W68PLP-6-6	71866
68TF-5/32-1	71665	V409F-12-8	72277	VS68NTA-3-2	71513	W68PLP-6-8	71867
68TF-5/32-2	71666	V409F-8-8	72275	VS68NTA-3-4	71514	W68PLP-8-4	71868
6CTX	77056	V500P-12	72243	VS68NTA-4-2	71515	W68PLP-8-6	71869
6FNTX	76006	V500P-16	72244	VS68NTA-4-4	71516	W68PLP-8-8	71870
6FTX	77078	V500P-4	72240	VS68NTA-4-6	71517		
6HTX	77210	V500P-6	72241	VS68NTA-6-2	71518		
6PNTX	76036	V500P-8	72242	VS68NTA-6-4	71519		
76RB-3/4-4	71820	VS269NTA-10-12	71577	VS68NTA-6-6	71520		
76RB-3/4-6	71821	VS269NTA-10-6	71575	VS68NTA-6-8	71521		
76RB-7/8-6	71822	VS269NTA-10-8	71576	VS68NTA-8-4	71522		
76RB-7/8-8	71823	VS269NTA-12-8	71579	VS68NTA-8-6	71523		
8-10F5OX	78012	VS269NTA-3-2	71560	VS68NTA-8-8	71524		
8-6C5OX	78057	VS269NTA-3-4	71561	W169PLP-2-2	71879		
8-6F5OX	78010	VS269NTA-4-2	71562	W169PLP-4-2	71881		
8-6HTX	77212	VS269NTA-4-4	71563	W169PLP-4-4	71883		
8-8CTX	77060	VS269NTA-4-6	71564	W169PLP-5/32-2	71880		
8-8FTX	77083	VS269NTA-6-2	71565	W169PLP-5-2	71884		
8C5OX	78058	VS269NTA-6-4	71567	W169PLP-5-4	71885		
8F5OX	78011	VS269NTA-6-6	71569	W169PLP-6-2	71886		
8FNTX	76008	VS269NTA-6-8	71570	W169PLP-6-4	71887		
8FTX	77082	VS269NTA-8-4	71571	W169PLP-6-6	71888		
8HTX	77213	VS269NTA-8-6	71572	W169PLP-6-8	71889		
8PNTX	76038	VS269NTA-8-8	71574	W169PLP-8-4	71890		
DC601-2	71012	VS271NTA-10-8	71612	W169PLP-8-6	71891		
DC601-4	71014	VS271NTA-4-2	71606	W169PLP-8-8	71892		
DC601-6	71016	VS271NTA-4-4	71650	W171PLP-2-2	71894		
DC601-8	71018	VS271NTA-6-4	71608	W171PLP-4-2	71895		
DC603-2	71000	VS271NTA-6-6	71609	W171PLP-4-4	71896		
DC603-4	71002	VS271NTA-8-6	71610	W171PLP-5-2	71897		
DC604-2	71035	VS272NTA-10-8	71626	W171PLP-5-4	71898		
DC604-4	71037	VS272NTA-3-2	71617	W171PLP-6-4	71899		
DC604-6	71039	VS272NTA-4-2	71619	W171PLP-6-6	71900		
DC606-4	71021	VS272NTA-4-4	71618	W171PLP-8-6	71901		
DC607-4	71007	VS272NTA-6-2	71620	W171PLP-8-8	71902		
MV608-2	72260	VS272NTA-6-4	71622	W172PLP-2-2	71904		
MV608-4	72261	VS272NTA-6-4-4	71621	W172PLP-4-2	71905		
MV609-2	72266	VS272NTA-6-6	71623	W172PLP-4-4	71906		
MV609-4	72267	VS272NTA-8-6	71624	W172PLP-5-2	71907		
PV607-2	72263	VS279NTA-10-6	71646	W172PLP-5-4	71908		

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Item ID	Our #	Item ID	Our #	Item ID	Our #	Item ID	Our #
05710B-106	72208	105X5	70818	1171X8S	71901	1468X10	71527
05710B-108	72209	105X6	70821	1171X8X8S	71902	1468X10X12	71528
05710B-C06	72234	105X8	70825	1172X2S	71904	1468X10X6	71526
05712B-108	72199	108	71041	1172X4S	71905	1468X12	71529
10004B-102	72115	1110X10	70033	1172X4X4S	71906	1468X12X12	71530
10004B-104	72116	1110X12	70034	1172X6S	71909	1468X4	71515
10006B-102	72120	1110X4	70027	1172X6X6S	71910	1468X4X4	71516
10006B-104	72121	1110X5	70028	1172X8S	71911	1468X4X6	71517
10006B-106	72122	1110X6	70029	1172X8X8S	71912	1468X6	71519
10008B-106	72125	1110X8	70032	131X3	70917	1468X6X2	71518
10008B-108	72126	1162X2	71850	131X4	70918	1468X6X6	71520
10502B-102	72150	1162X2.5	71851	131X5	70919	1468X6X8	71521
10503B-102	72155	1162X4	71852	131X6	70920	1468X8	71523
10503B-104	72156	1162X5	71853	1344	70770	1468X8X12	71525
10503BY03	72211	1162X6	71854	1345	70772	1468X8X4	71522
10504B-102	72160	1162X8	71855	1346	70773	1468X8X8	71524
10504B-104	72161	1164X2	71872	135	71035	1469X10	71576
10504B-106	72162	1164X2.5	71873	1351	70774	1469X10X12	71577
10504B-202	72100	1164X4	71874	1390X6	71820	1469X10X6	71575
10504B-204	72101	1164X5	71875	1390X6X6	71821	1469X12	71579
10504B-C02	72220	1164X6	71876	1390X8	71822	1469X4	71562
10504B-C04	72221	1164X8	71877	1390X8X8	71823	1469X4X4	71563
10504BY04	72212	1168X2	71857	1424A	71000	1469X4X6	71564
10505B-102	72167	1168X2.5	71859	1425A	71002	1469X6	71567
10505B-104	72168	1168X2X4	71858	145	71037	1469X6X2	71565
10505B-204	72103	1168X4	71860	1460X10	71507	1469X6X6	71569
10505B-C04	72223	1168X4X4	71861	1460X12	71508	1469X6X8	71570
10505BY05	72213	1168X5	71862	1460X4	71502	1469X8	71572
10506B-102	72175	1168X5X4	71863	1460X6	71504	1469X8X4	71571
10506B-104	72176	1168X6	71865	1460X8	71506	1469X8X8	71574
10506B-106	72177	1168X6X2	71864	1461X10	71547	1470X4	71613
10506B-108	72178	1168X6X6	71866	1461X12	71548	1470X6	71614
10506B-202	72105	1168X6X8	71867	1461X4	71542	1470X8	71616
10506B-204	72106	1168X8	71869	1461X6	71544	1471X4	71606
10506B-206	72107	1168X8X8	71870	1461X8	71546	1471X6	71608
10506B-C02	72225	1169X2.5S	71880	1462X10	71557	1471X6X6X6	71609
10506B-C04	72226	1169X2S	71879	1462X12	71558	1471X8	71610
10506B-C06	72227	1169X4S	71881	1462X4	71552	1472X4	71619
10506BY06	72214	1169X4X4S	71883	1462X6	71554	1472X6	71622
10508B-104	72185	1169X5S	71884	1462X8	71556	1472X6X4X4	71621
10508B-106	72186	1169X5X4S	71885	1464X4	71598	1472X6X6X2	71620
10508B-108	72187	1169X6S	71887	1464X6	71601	1472X6X6X6	71623
10508B-112	72188	1169X6X2S	71886	1464X6X6X4	71600	1472X8	71624
10508B-206	72110	1169X6X6S	71888	1464X8	71603	1472X8X6X6	71625
10508B-208	72111	1169X6X8S	71889	1464X8X8X6	71605	1474X4	71629
10508B-C06	72230	1169X8S	71891	1465X10	71592	1474X6	71630
10510B-112	72197	1169X8X4S	71890	1465X4	71589	1474X8	71631
10512B-112	72202	1169X8X8S	71892	1465X6	71590	1480X10	71645
105X10	70828	1171X2S	71894	1465X8	71591	1480X10X6	71646
105X12	70829	1171X4S	71895	1466X6	71594	1480X4	71639
105X2	70800	1171X4X4S	71896	1466X6X2	71593	1480X4X4	71638
105X3	70801	1171X6S	71899	1466X6X6	71595	1480X6	71640
105X4	70810	1171X6X6S	71900	1466X8	71596	1480X6X6	71641

Weatherhead Crossover

Item ID	Our #	Item ID	Our #	Item ID	Our #	Item ID	Our #
1480X8	71643	1880X4X4	71989	3151X2	70570	3326X12	70617
1480X8X4	71642	1880X6	71991	3151X4	70572	3326X2	70610
1480X8X8	71644	1880X6X6	71992	3151X6	70574	3326X4	70612
1484X10	71587	1880X8	71994	3151X8	70576	3326X6	70614
1484X12	71588	1880X8X8	71995	3152X12	70711	3326X8	70616
1484X4	71582	202X10	70858	3152X2	70704	3327X2	70620
1484X6	71584	202X2	70845	3152X4	70706	3327X4	70627
1484X8	71586	202X3	70846	3152X6	70708	3327X6	70640
1862X10	71933	202X4	70847	3152X8	70710	3328X2	70621
1862X2.5	71929	202X4X4	70848	3153X2	70595	3328X4	70628
1862X4	71930	202X5	70849	3153X4	70596	3328X6	70641
1862X6	71931	202X5X4	70850	3153X6	70597	3328X8	70651
1862X8	71932	202X6	70853	3153X8	70598	3329X2	70622
1864X4	71954	202X6X2	70852	32006X	70684	3329X4	70629
1864X6	71955	202X6X6	70854	3200X12X8	70698	3329X6	70642
1864X8	71956	202X8	70856	3200X2	70680	3329X8	70652
1868X10	71960	2030X10	70297	3200X4	70682	3330X2	70623
1868X10X6	71959	2030X4	70292	3200X4X2	70692	3330X4	70630
1868X12	71961	2030X5	70293	3200X6X4	70694	3330X6	70643
1868X2.5	71941	2030X6	70294	3200X8X6	70696	3330X8	70653
1868X2.5X1	71940	2030X8	70296	3220X12X4	70590	3350X2	70740
1868X4	71944	21304N-604	72507	3220X12X6	70591	3350X4	70742
1868X4X4	71945	21306N-406	72508	3220X12X8	70592	3350X6	70744
1868X4X6	71946	21306N-606	72510	3220X4X2	70582	3350X8	70746
1868X6	71948	21308N-608	72511	3220X6X2	70584	33806B-Y06	71810
1868X6X2	71947	21310N-610	72512	3220X6X4	70585	33806B-Y24	71805
1868X6X6	71949	24704N-604	72370	3220X8X2	70587	33806B-Y26	71806
1868X6X8	71950	24705N-605	72371	3220X8X4	70588	33806B-Y28	71807
1868X8	71952	24706N-406	72373	3220X8X6	70589	33806B-Y34	71800
1868X8X4	71951	24706N-606	72372	3250X2	70551	33806B-Y36	71801
1868X8X8	71953	24708N-608	72374	3250X4	70552	33806B-Y38	71802
1869X10	71981	24710N-610	72376	3250X8	70556	33808B-Y08	71811
1869X2.5	71969	24712N-612	72378	3270-06	72304	33808B-Y26	71808
1869X2.5X1	71968	252X3	70951	3270-08	72305	33808B-Y28	71809
1869X4	71970	252X4	70952	3270-10	72308	33808B-Y36	71803
1869X4S	71970S	252X5	70953	3270-12	72310	33808B-Y38	71804
1869X4X4	71971	252X6	70954	3300X12	70550	3400X12	70668
1869X4X4S	71971S	252X8	70956	3300X2	70540	3400X2	70660
1869X4X6	71972	270	71039	3300X4X2	70502	3400X4	70663
1869X6	71974	302X10	70872	3300X6	70544	3400X4X2	70662
1869X6S	71974S	302X2	70865	3300X6X2	70504	3400X6	70665
1869X6X2	71973	302X3	70866	3300X6X4	70505	3400X8	70667
1869X6X2S	71973S	302X4	70867	3300X8	70546	3500X2	70510
1869X6X6	71975	302X5	70868	3300X8X6	70507	3500X4	70512
1869X6X6S	71975S	302X6	70869	3325X12	70722	3500X6	70514
1869X6X8	71976	302X8	70871	3325X2	70715	3500X8	70516
1869X8	71978	3129X2	70560	3325X4	70717	352X3	70876
1869X8S	71978S	3129X4	70562	3325X4X2	70727	352X4	70877
1869X8X4	71977	3129X6	70564	3325X6	70719	352X5	70878
1869X8X8	71979	3129X8	70566	3325X6X2	70729	352X5X4	70879
1880X10	71997	3150X2	70670	3325X6X4	70730	352X6	70881
1880X10X6	71996	3150X4	70672	3325X8	70721	352X8	70883
1880X4	71988	3150X6	70674	3325X8X6	70733	3600X2	70760

Weatherhead Crossover

Item ID	Our #	Item ID	Our #	Item ID	Our #	Item ID	Our #
3600X4	70762	42X4	70052	49X5	70170	61X4	70317
3600X6	70764	42X5	70053	49X5X4	70171	61X5	70318
3600X8	70766	42X6	70054	49X6	70173	61X6	70319
3700X2	70520	42X8	70056	49X6X2	70172	61X7	70320
3700X4	70522	44X10	70082	49X6X6	70174	61X8	70321
3700X6	70524	44X3	70076	49X6X8	70175	62X10	70337
3700X8	70526	44X4	70077	49X8	70178	62X12	70338
3750X2	70750	44X6	70079	49X8X4	70177	62X2	70330
3750X4	70752	44X8	70081	49X8X8	70179	62X3	70331
3750X6	70754	45X3	70090	502X4	70932	62X4	70332
3750X8	70756	45X4	70091	502X5	70933	62X5	70333
3950X2	70530	45X4X4X4	70092	50X10	70194	62X6	70334
3950X4	70532	45X5	70093	50X3	70185	62X8	70336
3950X6	70534	45X6	70094	50X4	70186	64X3	70356
3950X8	70536	45X6X6X6	70095	50X4X4	70187	64X4	70357
39X10	70007	45X8	70097	50X5	70188	64X5	70358
39X3	70001	45X8X8X8	70098	50X6	70190	64X6	70359
39X4	70002	46X10	70118	50X6X6	70191	64X8	70361
39X5	70003	46X3	70106	50X8	70192	652X3	70962
39X6	70004	46X4	70107	50X8X8	70193	652X4	70964
39X8	70006	46X4X4	70108	51X3	70201	65X4	70367
402X10	70908	46X5	70109	51X4	70202	65X5	70368
402X2	70895	46X5X4	70110	51X5	70203	65X6	70369
402X3	70896	46X6X2	70111	51X5X4X5	70204	65X8	70371
402X4	70897	46X6X6	70113	51X6	70205	66X2	70375
402X4X4	70898	46X6X8	70114	51X6X6X6	70206	66X3	70376
402X5	70899	46X8X4	70115	51X8	70207	66X4	70377
402X5X4	70900	46X8X8	70117	51X8X8X8	70208	66X4X4	70378
402X6	70903	471X6X4X4	71607	54X10	70236	66X5	70379
402X6X2	70902	48X10	70156	54X10X6	70237	66X5X4	70380
402X6X6	70904	48X10X6	70155	54X4	70230	66X6	70382
402X8	70906	48X12	70157	54X4X4	70231	66X6X2	70381
40X10	70132	48X12X12	70158	54X5	70232	66X8	70384
40X12	70133	48X2	70140	54X6	70233	6788	71021
40X3	70126	48X3	70141	54X8	70235	6804	71125
40X4	70127	48X4	70142	55X10	70252	6809	71105
40X5	70128	48X4X4	70143	55X4	70247	6824	71114
40X6	70129	48X5	70145	55X5	70248	6829	71115
40X8	70131	48X5X4	70146	55X6	70249	6891	71012
41X10	70019	48X6X2	70147	55X8	70251	6892	71014
41X3	70011	48X6X6	70149	60X10	70307	6893	71016
41X4	70012	48X6X8	70150	60X12	70308	68X10	70405
41X5	70013	48X8X4	70152	60X2	70300	68X12	70406
41X6	70014	48X8X8	70154	60X3	70301	68X2	70390
41X8	70018	49X10	70181	60X4	70302	68X4	70393
4245-022	72300	49X10X6	70180	60X5	70303	68X4X4	70394
4245-025	72299	49X12	70182	60X6	70304	68X5	70395
4245-03	72302	49X12X12	70183	60X7	70305	68X5X4	70396
4247-041	72301	49X2	70165	60X8	70306	68X6	70398
42X10	70057	49X3	70166	61X10	70322	68X6X2	70397
42X12	70058	49X4	70167	61X12	70323	68X6X6	70399
42X2	70050	49X4X4	70168	61X2	70315	68X6X8	70400
42X3	70051	49X4X6	70169	61X3	70316	68X8	70403

Weatherhead Crossover

Item ID	Our #	Item ID	Our #	Item ID	Our #
68X8X4	70402	C3069X4	75042	C5315X8X10	78012
68X8X8	70404	C3069X6	75045	C5315X8X6	78010
69X10	70424	C3069X8	75048	C5405X10	77064
69X12	70425	C3069X8X6	75047	C5405X12	77067
69X2	70410	C3109X12X6	75108	C5405X4	77052
69X3	70411	C3109X12X8	75109	C5405X6	77056
69X4	70412	C3109X16X12	75113	C5405X8X8	77060
69X4X4	70413	C3109X16X8	75112	C5515X4	78052
69X5	70414	C3109X4X2	75100	C5515X4X6	78053
69X5X4	70415	C3109X6X2	75101	C5515X6X8	78056
69X6	70417	C3109X6X4	75102	C5515X8	78058
69X6X2	70416	C3109X8X4	75104	C5515X8X6	78057
69X6X6	70418	C3109X8X6	75105	H06904	72350
69X6X8	70419	C3309X12	75011	H06905	72352
69X7	70420	C3309X16	75013	H06906	72354
69X8	70422	C3309X4	75003	H06908	72356
69X8X4	70421	C3309X6	75005	H06910	72358
69X8X8	70423	C3309X8	75008	H06912	72360
702X2	70970	C5129X10	76010	H21304	72500
702X3	70972	C5129X12	76012	H21306	72502
702X4	70974	C5129X14	76014	H21308	72503
702X5	70976	C5129X16	76016	H21310	72504
702X6	70978	C5129X20	76020		
70X3	70431	C5129X4	76004		
70X4	70432	C5129X5	76005		
70X6	70434	C5129X6	76006		
70X8	70436	C5129X8	76008		
71X3	70440	C5205X10	77086		
71X4	70441	C5205X12	77089		
71X6	70444	C5205X4	77073		
71X8	70446	C5205X6	77078		
72X3	70451	C5205X8	77082		
72X4	70452	C5205X8X8	77083		
72X4X4X4	70453	C5229X10	76040		
72X5	70454	C5229X12	76042		
72X6	70455	C5229X14	76044		
72X8	70457	C5229X16	76046		
74X4	70461	C5229X20	76048		
74X6	70462	C5229X4	76034		
7502	72253	C5229X5	76035		
7504	72251	C5229X6	76036		
7506	72250	C5229X8	76038		
7508	72281	C5305X10X8	77216		
7509	72280	C5305X12	77222		
752X3	70942	C5305X12X10	77221		
752X4	70944	C5305X4	77205		
76X4	70467	C5305X5	77207		
7896X3	70836	C5305X6	77210		
7896X4	70837	C5305X8	77213		
A694	71101	C5305X8X6	77212		
C3069X12	75051	C5315X4	78002		
C3069X12X8	75050	C5315X6X8	78008		
C3069X16	75053	C5315X8	78011		

Hose Clamps

Standard



Standard Hose Clamps are a part stainless general purpose clamp that is suitable for a wide range of applications.

- Screw: 5/16" hex head - plated carbon steel
- Housing: plated carbon steel
- Band: 1/2" - 200 stainless
- Installation torque: 35 in/lbs (4 Nm)
- Sold as 1 box of 10

Item ID	Industry #	Min	Max
40006	6	3/8	7/8
40008	8	7/16	1
40010	10	1/2	1-1/16
40012	12	1/2	1-1/4
40016	16	11/16	1-1/2
40020	20	3/4	1-3/4
40024	24	1	2
40028	28	1-1/4	2-1/4
40032	32	1-1/2	2-1/2
40036	36	3/4	2-3/4
40040	40	1	3
40044	44	1-1/4	3-1/4
40048	48	1-1/2	3-1/2
40052	52	1-3/4	3-3/4
40056	56	2	4
40060	60	2-1/4	4-1/4
40064	64	2-1/2	4-1/2
40072	72	3	5
40080	80	3-1/2	5-1/2
40088	88	4	6
40096	96	4-1/2	6-1/2
40104	104	5	7

Standard Mini



Standard Mini Hose Clamps are a part stainless general purpose clamp that is great for confined area applications.

- Screw: 1/4" hex head - plated carbon steel
- Housing: plated carbon steel
- Band: 5/16" - 300 stainless
- Installation torque: 10 to 15 in/lbs (1.1 to 1.7 Nm)
- Sold as 1 box of 10

Item ID	Industry #	Min	Max
40002	4	5/16	5/8
40004	6	5/16	7/8

Hose Clamp Rack



Hose Clamp Rack is constructed of heavy gauge wire. Holes 10 different clamp diameters:

- Holds sizes: Mini #4 & #6, Regular #6, #10, #12, #16, #20, #28, #32, #36
- Ships fully assembled
- Does not come with clamps

Available in Assortment #02058

Item ID	# of Loops
40999	10

Hose Clamps

Lined



Lined Hose Clamps are designed for use with silicone rubber and other soft hose applications. The liner protects the hose surface and prevents it from extruding or shearing through the band notches as the clamp is tightened.

- Screw: 5/16" hex head - plated carbon steel
- Housing: 200 stainless
- Band: 1/2" - 200 stainless
- Installation torque: 35 in/lbs (4 Nm)
- Sold as 1 box of 10

Constant Torque- HD



Standard

HD

Constant Torque HD Hose Clamps use a Belleville spring design to eliminate "cold flow" leakage in heavy duty applications and adjust with the hose and fitting to maintain constant tension on the connection, eliminating leak paths. These clamps are an excellent choice for fluctuating and extreme temperature applications and thermal compensation.

- Screw: 3/8" hex head - plated carbon steel
- Housing: 300 stainless
- Band: 5/8" - 300 stainless
- Installation torque: 75 in/lbs (8.5 Nm)
- Sold as each

*The standard duty version features a 5/16" hex head screw, and a 9/16" band. Installation torque: 50 in-lbs (5.6 Nm)

Item ID	Industry #	Min	Max
40506	6	1/2	7/8
40508	8	5/8	1
40510	10	11/16	1-1/16
40512	12	11/16	1-1/4
40516	16	3/4	1-1/2
40520	20	1	1-3/4
40524	24	1-1/16	2
40528	28	1-5/16	2-1/4
40532	32	1-9/16	2-1/2
40536	36	1-13/16	2-3/4
40540	40	2-1/16	3
40544	44	2-5/16	3-1/4
40548	48	2-9/16	3-1/2
40552	52	2-13/16	3-3/4

Item ID	Industry #	Min	Max
40610*	CT9410	9/16	1-1/16
40624*	CT9424	1-1/16	2
40625	CT250L	1-3/4	2-5/8
40630	CT300L	2-1/4	3-1/8
40635	CT350L	2-3/4	3-5/8
40640	CT400L	3-1/4	4-1/8
40645	CT450L	3-3/4	4-5/8
40650	CT500L	4-1/4	5-1/8
40655	CT550L	4-3/4	5-5/8



Hose Clamps

T-Bolt



T-Bolt Hose Clamps provide a quick and effective means of clamping a variety of fittings to a wide range of hose in both the commercial and industrial markets.

- T-Bolt: 304 stainless
- Nut: 304 stainless, nylon insert
- Band & Bridge: 3/4" - 301 stainless
- Installation torque: 75 in/lbs (8.5 Nm)
- Sold as each

Item ID	Nom Size	Min	Max
48200	1-1/4	1-5/32	1-15/32
48201	1-1/2	1-3/8	1-9/16
48202	1-3/4	1-5/8	1-13/16
48204	2	1-7/8	2-1/16
48205	2-1/4	2-1/8	2-5/16
48207	2-1/2	2-3/8	2-9/16
48210	2-3/4	2-17/32	2-13/16
48212	3	2-25/32	3-1/16
48214	3-1/4	3-1/32	3-5/16
48215	3-1/2	3-9/32	3-9/16
48216	3-3/4	3-17/32	3-13/16
48218	4	3-25/32	4-1/16

Spring Loaded T-Bolt



Spring Loaded T-Bolt Hose Clamps provide uniform sealing pressure for a positive, reliable seal. Designed for use in high vibration and large diameter applications common in heavy trucks, industrial machinery, agricultural irrigation and more.

- T-Bolt: 1/4" plated carbon steel
- Nut: 7/16" plated carbon steel, nylon insert
- Band & Bridge: 3/4" - 300 stainless
- Spring: steel
- Installation torque: 75 in/lbs (8.5 Nm)
- Sold as each

Item ID	Industry #	Min	Max
48306	306	3-1/16	3-3/8
48356	356	3-9/16	3-7/8
48406	406	4-1/16	4-3/8
48413	413	4-1/8	4-7/16
48425	425	4-1/4	4-9/16
48525	525	5-1/4	5-9/16

Hose Clamps

Double Ear Hose Clamp- Zinc



Double Ear Hose Clamps are used in the installation of low and medium pressure hose connections. The double ear design creates a spring like connection that assists in maintaining and enduring connection, even when the hose expands and contracts.

- Zinc plated
- Use installation tool # **40749**
- Made in USA
- Installation: pinch one ear fully, and then pinch the second ear fully close.
- Sold as each

Item ID	Nom Size	Min	Max	Industry #
40696	5/16	.276	.354	9 OET
40697	3/8	.315	.433	11 OET
40699	1/2	.433	.512	13 OET
40700	9/16	.512	.591	15 OET
40702	5/8	.591	.708	18 OET
40703	3/4	.669	.787	20 OET
40705	7/8	.787	.905	23 OET
40706	15/16	.866	.984	25 OET
40707	1	.905	1.063	27 OET

Double Ear Hose Clamp Kit- SS



Double Ear Hose Clamp Kit contains a standard jaw pincher and stainless steel double ear clamps consisting of the following quantities and sizes:

- 15pcs: 5/16, 3/8, 1/2, 9/16, 5/8
- 12pcs: 3/4, 7/8, 15/16, 1

Item ID
40750

Single Ear Hose Clamp



Single Ear Hose Clamps are ideal for low pressure applications such as automotive, appliance, industrial machinery and more.

- Zinc plated
- Use installation tool # **40749**
- Position clamp on hose & give ear a firm squeeze

Item ID	Nom Size	Min	Max
53090	1/2	.453	.524

Standard Jaw Ear Clamp Pincher



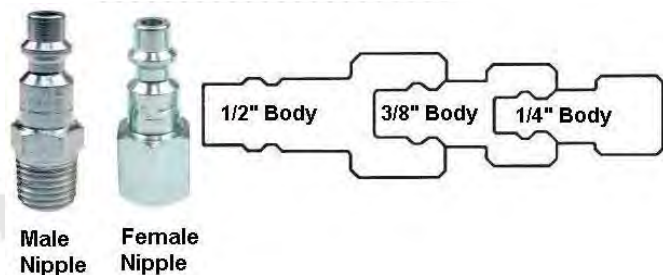
Standard Jaw Ear Clamp Pincher tightens ear clamps at the front of the tool, or straight on.

- Correctly pinches clamps
- Rubber grips for comfort

Item ID
40749

Air Hose Fittings

Air Hose Nipples- Industrial Interchange



Industrial Interchange Air Hose Nipples are engineered to interchange with the industrial interchange designs of all manufacturers. Steel nipples offer a harder sealing surface that is more resistant to dings and scratches.

- Plated Steel
- Made in USA

Air Hose Nipples- ARO Interchange



ARO Interchange Air Hose Nipples are engineered to interchange with the ARO design as well as similar designs of other manufacturers. Steel nipples offer a harder sealing surface that is more resistant to dings and scratches.

- Plated Steel
- Made in USA

Item ID	Body Size	NPT Size	Style	Mfg #
72336	1/4	1/4	Male	1501
72334	1/4	1/4	Female	1502
72337	1/4	3/8	Male	1503
72335	1/4	3/8	Female	1505
72339	3/8	1/4	Male	5803
72328	3/8	1/4	Female	5804
72383	1/2	3/8	Male	1203
72384	1/2	3/8	Female	1204
72381	1/2	1/2	Male	1201
72385	1/2	1/2	Female	1202

Item ID	Body Size	NPT Size	Style	Mfg #
72326	1/4	1/4	Male	1401
72324	1/4	1/4	Female	1402
72329	3/8	3/8 Barb	Hose Barb	5806

Air Hose Couplers- Industrial Interchange



Industrial Interchange Air Hose Couplers are engineered to interchange with the industrial interchange designs of all manufacturers. Knurled body enhances grip in oily or greasy conditions. Drag guard prevents accidental disconnection.

- Brass (72338,72380,72382- Plated Steel)
- Made in USA

Air Hose Couplers- ARO Interchange



ARO Interchange Air Hose Couplers are engineered to interchange with the ARO designs as well as similar designs of other manufacturers. Knurled body enhances grip in oily or greasy conditions. Drag guard prevents accidental disconnection.

- Brass
- Made in USA

*Milton brand- plated steel

Item ID	Body Size	NPT Size	Style	Mfg #
72332	1/4	1/4	Male	152
72330	1/4	1/4	Female	150
72333	1/4	3/8	Male	155
72331	1/4	3/8	Female	151
72338	3/8	1/4	Female	582
72382	1/2	1/2	Male	122
72380	1/2	1/2	Female	120

Item ID	Body Size	NPT Size	Style	Mfg #
72322	1/4	1/4	Male	142
72320	1/4	1/4	Female	140
72319*	1/4	1/4	Female	775

Air Hose Fittings

Air Hose Nipples- Lincoln Interchange



Lincoln Interchange Air Hose Nipples are engineered to interchange with the Lincoln interchange designs of other manufacturers. Steel nipples offer a harder sealing surface that is more resistant to dings and scratches.

- Plated Steel
- Made in USA

Item ID	Body Size	NPT Size	Style	Mfg #
72346	1/4	1/4	Male	1701
72348	1/4	1/4	Female	1702

Air Hose Couplers- Lincoln Interchange



Lincoln Interchange Air Hose Couplers are engineered to interchange with the Lincoln interchange designs of other manufacturers. Knurled body enhances grip in oily or greasy conditions. Drag guard prevents accidental disconnection.

- Brass
- Made in USA

Item ID	Body	NPT Size	Style	Mfg #
72347	1/4	1/4	Female	170

Air Hose Nipples- Tru-Flate Interchange



Tru-Flate Interchange Air Hose Nipples are engineered to interchange with the Tru-Flate interchange designs of other manufacturers. Steel nipples offer a harder sealing surface that is more resistant to dings and scratches.

- Plated Steel
- Made in USA

Item ID	Body Size	NPT Size	Style	Mfg #
72391	1/4	1/4	Male	1601
72392	1/4	1/4	Female	1602
72406	3/8	1/4	Male	5903
72407	3/8	3/8	Male	5901
72405	3/8	3/8	Female	5902

Air Hose Couplers- Tru-Flate Interchange



Tru-Flate Interchange Air Hose Couplers are engineered to interchange with the Tru-Flate interchange designs of other manufacturers. Knurled body enhances grip in oily or greasy conditions. Drag guard prevents accidental disconnection.

- Brass (72400 & 72401- Plated Steel)
- Made in USA

Item ID	Body Size	NPT Size	Style	Mfg #
72390	1/4	1/4	Female	160
72400	3/8	1/4	Female	592
72401	3/8	3/8	Female	590

Air Hose Fittings

Safety Exhaust Couplers



Safety Exhaust Couplers automatically connect under zero pressure and safely vent and disconnect under zero pressure eliminating hose whip. The coupler is designed to remain connected to the nipple until the downstream air is completely bled off.

- Chrome plated steel & aluminum
- **72420** (5-in-1) connects to 1/4" Body - Industrial, ARO, Tru-Flate, Lincoln and Euro nipples (72334, 72335, 72336, 72337, 72324, 72326, 72346, 72348, 72391, 72392)
- **72422** (2-in-1) connects to 3/8" Body - Industrial and Tru-Flate nipples (72328, 72339, 72405, 72406, 72407)
- **72424** (2-in-1) connects to 1/2" Body - Industrial and Tru-Flate nipples (72381, 72383, 72384, 72385)

For high-impact tools, a lead-in hose must be used to lengthen the life of the coupler.

Item ID	Body Size	NPT Size	Description
72420	1/4	1/4 FPT	5-in-1 coupler
72422	3/8	3/8 FPT	2-in-1 coupler
72424	1/2	1/2 FPT	2-in-1 coupler

Ball Swivel Connectors



Ball Swivel Connectors provide a compact method of connection while extending the user's range of motion.

- Durable steel socket construction
- Full flow at any angle
- **72387**- ARO Interchange, **72388** Ind Interchange
- Made in USA

Item ID	Body Size	NPT Size	Desc
72387	1/4	1/4 MPT	ARO Interchange
72388	1/4	1/4 MPT	Ind Interchange

Air Hose Fitting Crossover

Amflo		Coilhose		Dixon		Foster		Hansen Tuthill	
Item ID	Our #	Item ID	Our #	Item ID	Our #	Item ID	Our #	Item ID	Our #
C10	72380	120	72380	DC10	72380	10-3	72336	10	72336
C2	72390	1201	72381	DC2	72390	11-3	72334	1000	72330
C20	72330	1202	72385	DC20	72330	14-3	72337	11	72334
C20-23	72331	1203	72383	DC2023	72331	15-3	72335	1100	72332
C21	72332	1204	72384	DC21	72332	210-10	72326	1200	72331
C21-03	72333	122	72382	DC2103	72333	210-11	72324	1300	72333
C26-22	72338	140	72320	DC2622	72338	210-3003	72320	14	72337
C28	72347	1401	72326	DC28	72347	210-3103	72322	15	72335
C37	72322	1402	72324	DC37	72322	3003B	72330	21AP-25F	72392
C38	72320	142	72322	DC38	72320	3103B	72332	21AP-25M	72391
C45	72322	150	72330	DC6	72401	3203B	72331	2608	72326
C46	72320	1501	72336	DC8	72400	3303B	72333	2609	72324
C6	72401	1502	72334	DC9	72382	40-4	72339	31AP-25M	72406
C8	72400	1503	72337	DCP1	72391	4004	72338	31AP-37F	72405
C9	72382	1505	72335	DCP17	72381	41-4	72328	31AP-37M	72407
CP1	72391	151	72331	DCP1703	72383	48-4	72329	40	72339
CP17	72381	152	72332	DCP18	72385	52-5	72383	400	72338
CP17-03	72383	155	72333	DCP1823	72384	5205	72380	406	72329
CP18	72385	160	72390	DCP2	72392	5305	72382	41	72328
CP18-23	72384	1601	72391	DCP20	72334	54-5	72381	420	72401
CP2	72392	1602	72392	DCP2023	72335	55-5	72385	52	72383
CP20	72334	170	72347	DCP21	72336	LN10	72346	520	72380
CP20-23	72335	1701	72346	DCP2103	72337	LN11	72348	530	72382
CP21	72336	1702	72348	DCP2502	72339	LN3003	72347	54	72381
CP21-03	72337	5803	72339	DCP2544	72329	TF10	72391	55	72385
CP25-02	72339	5804	72328	DCP2622	72328	TF11	72392		
CP25-44	72329	5806	72329	DCP27	72346	TF3003	72390		
CP26-22	72328	582	72338	DCP28	72348	TF40	72406		
CP27	72346	590	72401	DCP37	72326	TF4004	72400		
CP28	72348	5901	72407	DCP38	72324	TF42	72407		
CP37	72326	5902	72405	DCP5	72407	TF4204	72401		
CP38	72324	5903	72406	DCP6	72405				
CP5	72407	592	72400	DCP7	72406				
CP6	72405								
CP7	72406								



Air Hose Fitting Crossover

Lincoln		Milton		NAPA		Parker	
Item ID	Our #	<i>*Milton brand</i>		Item ID	Our #	Item ID	Our #
		Item ID	Our #				
11659	72346	1803	72400	90-575	72383	0E	72406
11661	72348	1805	72401	90-578	72381	15C	72400
13329	72326	1807	72407	90-587	72384	25C	72338
13331	72324	1808	72405	90-588	72385	2C	72391
5871	72390	1809	72406	90-600	72392	2E	72407
5872	72391	1815	72380	90-605	72339	3C	72392
5873	72392	1816	72382	90-606	72328	3E	72405
5874	72401	1816	72382	90-610	72390	A2C	72326
5875	72407	1833	72338	90-613	72320	A3C	72324
5876	72405	1837-6	72329	90-618	72326	B13	72390
630104	72336	1839	72339	90-620	72324	B22	72332
630204	72334	1840	72328	90-628	72391	B22E	72333
632004	72330	1857	72381	90-629	72338	B23	72330
640104	72339	1858	72385	90-644	72347	B23E	72331
640204	72328	1859	72383	90-648	72346	B36	72382
650106	72383	1860	72384	90-650	72348	B37	72380
650108	72381	715	72330	90-651	72329	B50	72322
650206	72384	716	72332	90-654	72401	B53	72320
650208	72385	718	72331	90-657	72333	B73	72347
652008	72380	719	72333	90-658	72407	H0E	72339
815	72347	727	72336	90-659	72335	H0F	72383
		728	72334	90-660	72405	H1E	72328
		732	72335	90-662	72380	H1F	72384
		733	72337	90-664	72382	H2C	72336
		775	72319*	90-667	72331	H2C-E	72337
		775	72320	90-670	72330	H2F	72381
		776	72322	90-672	72332	H3C	72334
		777	72326	90-674	72336	H3C-E	72335
		778	72324	90-676	72334	H3F	72385
		783	72391	90-677	72337	H5E	72329
		784	72392	90-685	72406	L2C	72346
		785	72390	90-686	72400	L3C	72348
		790	72347				
		791	72346				
		792	72348				

Air Hose Fittings

Air Tank Valves



Air Tank Valves come complete with a short core. These valves are perfect for air lifts, water pumps, vacuum, pressurized containers, air jacks, and other pneumatic devices.

Item ID	NPT Size
72295	1/8
72297	1/4

In-Line Pressure Regulator



In-Line Pressure Regulators provide a compact method of setting air pressure to pulse style tools such as rivet guns, nailers and more. By installing the preset units on a tool, it prevents tampering or unwanted adjustment of tools in a production setting.

- Preset at 90 PSI
- Port Size: 1/4"
- Made in USA

Item ID	Port Size
72490	1/4

Hose Ferrules- Brass



Brass Hose Ferrules provide an economical and dependable crimping option for hose assemblies. Once crimped, the hose ferrules provide a permanent clamping force on both the hose and the fitting.

Item ID	Ferrule ID	Length	Industry #
72440	1/2 (.500)	1"	7322
72441	33/64 (.525)	1"	7323
72442	9/16 (.562)	1"	7325
72443	19/32 (.593)	1"	7326
72444	5/8 (.625)	1"	7327
72445	21/32 (.656)	1"	7328
72446	11/16 (.687)	1"	7329
72447	23/32 (.718)	1"	7330
72448	3/4 (.750)	1"	7331

Blow Guns

Lever Style Blow Gun



Lever Style Blow Gun features a tough zinc die cast body that is made to last in even the harshest environments. This blow gun is perfect for clearing tubing and more.

- Supply pressure should be regulated to 30 PSI or less
- **Not** OSHA 1910.242B compliant for dead end pressure
- Supplied with rubber tip

Item ID	NPT Size
72345	1/4 FPT

Lever Style Blow Gun- Ext Length



Lever Style Blow Gun Ext Length features a tough zinc die cast body that is made to last in even the harshest conditions. This blow gun is great for hard to reach areas.

- Supplied with angled extension
- Supplied with rubber tip(not OSHA compliant) & safety nozzle(OSHA compliant)
- Maximum input pressure 150 PSI
- OSHA 1910.242B compliant with safety nozzle **only**

Item ID	NPT Size	Description
72344	1/4 FPT	Blow Gun with 2ft Extension
72343	1/4 FPT	Blow Gun with 4ft Extension

Pocket Blow Gun



Adjustable Pocket Blow Gun has a maximum inlet pressure of 150 PSI and air of 15.9 standard cubic feet per minute.

- Fits ARO Interchange Coupler 1/4" Body

Item ID	Connects to
72341	1/4 Body ARO Interchange Couplers

Typhoon High Flow Blow Gun



Typhoon High Flow Blow Gun delivers up to 34 CFM and over two pounds of thrust at 125 PSI. This heavy duty blow gun is constructed of a tough die cast body. The light weight and sleek design make this gun a favorite in many shops.

- OSHA compliant
- Integral hanging hook
- Variable flow trigger
- Maximum input pressure 150 PSI
- **72581** comes with a 2ft extension
- **72582** comes with a 4ft extension

Item ID	NPT Size	Description
72580	1/4 FPT	Blow Gun
72581	1/4 FPT	Blow Gun with 2ft Extension
72582	1/4 FPT	Blow Gun with 4ft Extension

Typhoon High Flow Blow Gun Accessories



72585 & 72587



72590

Typhoon High Flow Blow Gun Accessories

- Extensions are male x male thread
- Coupling is 1" long and is female x female thread
- Accessories can be installed on any Typhoon

Item ID	Description
72585	2ft Extension Only
72587	4ft Extension Only
72590	Extension Coupling

Service Gauges

Air Chucks



Air Chucks feature a sealing type chuck that is closed and is to be used on airline. These chucks are not for use with inflator gauges.

- Max pressure: 150 PSI
- **72291** features a grip chuck that locks onto valve core

Item ID	NPT Size
72290	1/4 FPT
72291	1/4 FPT

Air Chuck- Dual Head



Dual Head Air Chuck allows easy access to inner dual when valve is facing inward. Sealing type chuck is closed and is for use on airline.

- Maximum pressure: 150 PSI
- Not for use with an inflator gauge

Item ID	NPT Size
72292	1/4 FPT

Air Chuck- Dual Head Straight Foot



Dual Head Straight Foot Air Chuck allows easy access to inner dual when valve is facing inward. Sealing type chuck is closed.

- Maximum pressure: 150 PSI
- Not for use with an inflator gauge

Item ID	NPT Size
72293	1/4 FPT

Tire Gauge- Dual Head



Dual Head Tire Gauge is accurate within 1 PSI per specifications. Deeper recess in the head provides better contact with the valve.

- 6" extension
- Pressure Rating: 10-150 PSI in 2 PSI increments

Item ID	PSI Range
72294	10-150 PSI- 2 PSI Increments

Inflator Gauge- Dual Head



Dual Head Inflator Gauge is a heavy duty construction which provides longer life even under extreme use and conditions. Gauge and valve cartridges are replaceable.

- Full swivel chuck
- Includes 15" hose
- Pressure rating: 10-120 PSI in 2 PSI increments

Item ID	PSI Range
72298	10-120 PSI- 2 PSI Increments

Hose & Tubing Connectors

Vacuum Caps



Vacuum Caps can be used for capping lines and hoses while testing carburetors, emission control systems, vacuum lines and more.

- Made of special heat resistant EPDM rubber

Item ID	Fits Tube OD	Inside Length
47304	1/8	9/16
47308	3/16	9/16
47312	1/4	9/16
47320	1/4	1-1/4
47322	5/16	1-1/4
47325	3/8	1-1/2

Straight Connectors- Nylon



Item ID	Size	Color
42000	1/8 x 1/8	Natural
42002	3/16 x 3/16	Natural
42004	1/4 x 1/4	Natural
42006	5/16 x 5/16	Black
42008	3/8 x 3/8	White

Reducing Connectors- Nylon



Item ID	Size	Color
42100	3/16 x 1/8	Black
42102	1/4 x 1/8	Black
42104	1/4 x 3/16	Black
42112	3/8 x 1/4	Black

90 Deg Elbows- Nylon



Item ID	Size	Color
42700	3/16 x 1/8	Black
42600	3/16 x 3/16	Natural
42702	1/4 x 3/16	Natural
42602	1/4 x 1/4	Natural

Y-Connectors- Nylon



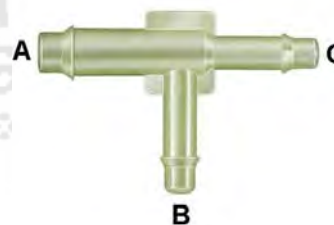
Item ID	Size	Color
42400	3/16 All Ends	White
42402	1/4 All Ends	Natural
42404	5/16 All Ends	Black
42406	3/8 All Ends	Black

Tee Connectors- Nylon



Item ID	Size	Color
42200	1/8 All Ends	White
42202	3/16 All Ends	Natural
42204	1/4 All Ends	Natural
42206	5/16 All Ends	Black
42208	3/8 All Ends	Black

Tee Reducing Connectors- Nylon



Item ID	A	B	C	Color
42300	1/8	1/8	3/16	White
41310	1/8	3/16	1/8	Black
42308	1/8	1/4	1/8	Natural
42302	3/16	1/8	3/16	Black
42304	3/16	3/16	1/8	Natural
42306	3/16	3/16	1/4	Natural
42312	3/8	1/4	3/8	Black
42310	3/8	3/8	3/16	White
42314	3/8	3/8	1/4	Black

Hose & Tubing Connectors

Cross Connector- Nylon



Item ID	Size	Color
42800	3/16 All Ends	Black

4-Way Tee Connector- Nylon



Item ID	Size	Color
41400	3/16 All Ends	Natural

5-Way Tee Connector- Nylon



Item ID	Size	Color
41420	3/16 All Ends	Natural

Universal Break-Off Straight Conn- Nylon



Item ID	Size	Color
41100	For 1/8, 1/4 or 3/8 ID Tubing	Black

Universal Break-Off Tee- Nylon



Item ID	Size	Color
41300	For 1/8, 1/4 or 3/8 ID Tubing	Black

Barbed Straight Connectors- Nylon



Item ID	Size	Color
41000	1/8 x 1/8	Black
41010	3/16 x 3/16	Black
41020	1/4 x 1/4	Black
41030	5/16 x 5/16	Black
41040	3/8 x 3/8	Black

Barbed Reducing Connectors- Nylon



Item ID	Size	Color
41050	1/4 x 3/16	Black
41060	3/8 x 1/4	Black

Barbed 90 Deg Elbow- Nylon



Item ID	Size	Color
41430	1/2 x 1/2	Black

Barbed Tee Connectors- Nylon



Item ID	Size	Color
41200	1/8 All Ends	Black
41150	5/32 All Ends	Black
41160	3/16 All Ends	Black
41170	1/4 All Ends	Black
41180	3/8 All Ends	Black
41190	1/2 All Ends	Black

Hose & Tubing

Fuel Line Hose



Fuel Line Hose is designed for conveying gasoline, E-85, diesel, and bio-diesel fuels in cars, trucks, buses, and more. This hose withstands oil, grease, abrasion, and ozone. Exceeds the burst requirements of the SAE30R7 specification.

- Cover: Black NBR/PVC
- Specification: similar to SAE30R7
- Temperature Range: -40°F to 257°F
- Made in USA
- Qty 1 = 25ft spool

Item ID	ID	Length
43001	3/16	25 ft
43002	1/4	25 ft
43003	5/16	25 ft
43004	3/8	25 ft

Fuel Injection Hose



Fuel Injection Hose is designed for the extremely high temperatures generated by today's fuel injected engines. This special hose handles E-85, diesel, bio-diesel and extended gasolines, resisting sour gas oxidation.

- Cover: Black synthetic oil resistant
- Specification: SAE30R9
- Temperature Range: -29°F to 275°F
- Made in USA
- Qty 1 = 25ft spool

Item ID	ID	Length
43012	1/4	25 ft
43013	5/16	25 ft
43014	3/8	25 ft

Windshield Wiper & Vacuum Tubing



Windshield Wiper & Vacuum Tubing is a low pressure EPDM tubing designed for windshield washers, vacuum and emission systems for power accessories. Will not deteriorate from heat, weathering, or ozone. Maintains its flexibility even at low temperatures.

- Cover: Black EPDM
- Specification: similar to SAE J1037
- Temperature Range: -40°F to 257°F
- Made in USA
- Qty 1 = 50ft spool

Item ID	ID	OD	Length	Fittings
43101	7/64	7/32	50 ft	1/8
43102	5/32	11/32	50 ft	3/16
43103	7/32	3/8	50 ft	1/4
43104	9/32	27/64	50 ft	5/16

Hose & Tubing

Heater Hose- Red Premium



Red Premium Heater Hose is a replacement for OE hose on most cars and light trucks. This hose withstands the abuse of corrosive solutions and additives and also resists weathering to provide a long, trouble-free service life.

- Cover: Red EPDM
- Specification: similar to SAE20R3 Class D2, SAE J2387
- Temperature Range: -40°F to 257°F
- Made in USA
- Qty 1 = 50ft spool

Item ID	ID	Length
43201	1/2	50 ft
43202	5/8	50 ft

Heater Hose- Black OEM



Black OEM Heater Hose is a replacement for OE hose on most cars and light trucks. This hose withstands the abuse of corrosive solutions and additives and also resists weathering to provide a long, trouble-free service life.

- Cover: Black EPDM
- Specification: similar to SAE20R3 Class D2, SAE J2387
- Temperature Range: -40°F to 257°F
- Made in USA
- Qty 1 = 50ft spool

Item ID	ID	Length
43203	3/4	50 ft
43204	1	50 ft

Heater Hose- Silicone



Silicone Heater Hose is a special heater hose built to meet the most extreme heavy duty truck and special equipment applications. Reinforced with a polyester fiber to maintain a high burst strength and extend the service life.

- Cover: Blue Silicone
- Specification: SAE20R3 HT Class A
- Temperature Range: -65°F to 347°F
- Made in USA
- Qty 1 = 25ft spool

Item ID	ID	Length
43210	5/8	25 ft

Hose & Tubing

Air Hose- Red Premium



Red Premium Air Hose is designed for touch service station and shop air tool applications. It features an EPDM tube and cover with a four spiral polyester reinforcement that keeps the hose kink resistant and flexible in extreme temperatures. The cover is resistant to abrasion, weathering, and ozone. This hose comes coupled with 1/4" MPT fittings.

- Cover: Red EPDM
- Pressure Rating: 250 PSI
- Temperature Range: -40°F to 212°F
- Made in USA
- Qty 1 = 25ft (72317) and 50ft (72318)

Item ID	ID	OD	Length	Fittings
72317	3/8	23/32	25 ft	1/4 MPT
72318	3/8	23/32	50 ft	1/4 MPT

Air Hose- Flexzilla



Flexzilla Air hose is a revolutionary hose featuring a premium hybrid polymer material that redefines flexibility. This polymer-blend hose permits use in environments where general purpose PVC and rubber hose may become too stiff. Flexzilla hose offers zero memory allowing it to lay flat. This hose offers extreme all-weather flexibility and comes coupled with 1/4" aircraft aluminum male ends.

- Cover: Green premium hybrid polymer
- Pressure Rating: 300 PSI at 70°F
- Temperature Range: -40°F to 140°F
- Qty 1 = 50ft roll

Item ID	ID	Length	Fittings
72316	3/8	50 ft	1/4 MPT

Air Hose- Flex-Loc Push-On



Flex-Loc Push-On Air Hose is a high quality hose that is used by all industries. It has a Class A high oil resistant tube and cover that offers excellent resistance to oil and petroleum based products. It has excellent couple retention and holds the fitting tightly and safely. This hose is used with push-on brass barb fittings. The fitting will not give, even under full working pressure. This hose is sold uncoupled.

- Cover: Blue Nitrile, RMA Class A
- Pressure Rating: 250 PSI
- Temperature Range: -20°F to 180°F
- Made in USA
- Sold by the foot, reel length 250ft

Item ID	ID	OD	Reel Length
72314FL	1/4	1/2	250 ft
72317FL	3/8	5/8	250 ft
72318FL	1/2	3/4	250 ft

Hose & Tubing

Air Hose- Coil



Coil Air Hose comes supplied with 1/4 MPT fittings with spring guard. This hose is great for use with all air tools and air related equipment.

- Cover: Yellow
- Pressure Rating: 200 PSI
- Qty 1 = 25ft roll

Item ID	ID	Length	Fittings
72312	1/4	25 ft	1/4 MPT

Brass Hose Barb Fittings

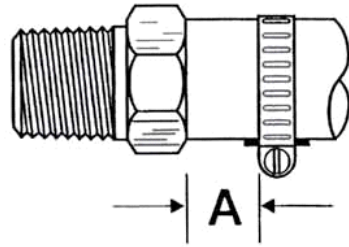
Hose Barb Fittings

Hose Barb Fittings are designed for low pressure applications such as shop or service air hose. These fittings are intended for use with a hose clamp, similar type clamp or a hose ferrule.

- Material: CA360 brass
- Temperature & Working Pressure Range: -40°F to 160°F at 150 PSI

Assembly Instructions

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



Hose ID	"A"
3/16	1/4
1/4	1/4
5/16	1/4
3/8	1/8
1/2	1/8
5/8	1/8
3/4	1/8

Mender



Item ID	Hose ID
72210	1/8
72211	3/16
72212	1/4
72213	5/16
72214	3/8
72216	1/2
72217	5/8
72218	3/4

Male Adapter



Item ID	Hose Id	Pipe Size
72150	1/8	1/8
72155	3/16	1/8
72156	3/16	1/4
72160	1/4	1/8
72161	1/4	1/4
72162	1/4	3/8
72163	1/4	1/2
72167	5/16	1/8
72168	5/16	1/4
72169	5/16	3/8
72175	3/8	1/8
72176	3/8	1/4
72177	3/8	3/8
72178	3/8	1/2
72185	1/2	1/4
72186	1/2	3/8
72187	1/2	1/2
72188	1/2	3/4
72195	5/8	3/8
72196	5/8	1/2
72197	5/8	3/4
72200	3/4	3/8
72201	3/4	1/2
72202	3/4	3/4

Brass Hose Barb Fittings

Female Adapter



Item ID	Hose ID	Pipe Size
72100	1/4	1/8
72101	1/4	1/4
72103	5/16	1/4
72105	3/8	1/8
72106	3/8	1/4
72107	3/8	3/8
72110	1/2	3/8
72111	1/2	1/2

Tee



Item ID	Hose ID
72270	1/4
72271	3/8
72272	1/2
72273	5/8
72274	3/4

90 Deg Elbow



Item ID	Hose ID	Pipe Size
72220	1/4	1/8
72221	1/4	1/4
72223	5/16	1/4
72225	3/8	1/8
72226	3/8	1/4
72227	3/8	3/8
72230	1/2	3/8

45 Deg Elbow



Item ID	Hose ID	Pipe Size
72141	1/4	1/4

Brass Hose Barb Fittings

Single Barb- Male Adapter



Item ID	Hose ID	Pipe Size
72206	1/2	1/4
72205	1/2	1/2
72208	5/8	3/8
72209	5/8	1/2
72199	3/4	1/2

Single Barb- 90 Deg Elbow



Item ID	Hose ID	Pipe Size
72232	1/2	1/4
72237	1/2	1/2
72234	5/8	3/8
72235	5/8	1/2
72236	3/4	1/2

Single Barb- 45 Deg Elbow



Item ID	Hose ID	Pipe Size
72180	5/8	1/2
72181	3/4	1/2

Push On Barb- Male Adapter



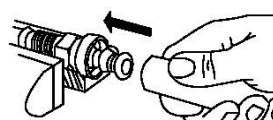
Push On Barb Fittings are easy to assembly and do not require any clamps.

Assembly Instructions

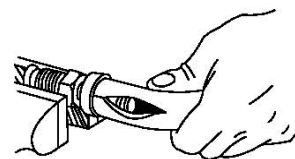
Lubricate insert, hold hose at angle as shown & push on and up over first barb. Continue to push straight on until hose is seated under protective plastic cap. Keep hands back from hose end area so that hose can expand

Disassembly Instructions

Split hose as shown below. Do not cut completely through hose. Sealing edge of barb could be damaged. Bend hose and remove with a quick pull.



Assembly



Disassembly

Item ID	Hose ID	Pipe Size
72115	1/4	1/8
72116	1/4	1/4
72117	1/4	3/8
72120	3/8	1/8
72121	3/8	1/4
72122	3/8	3/8
72125	1/2	3/8
72126	1/2	1/2

Push On Barb- Dual Seat Female Swivel



Dual seat works with both SAE 45° Flare & 37° JIC

Item ID	Hose ID	Dual Seat
72239	1/4	5/16

Brass Pipe Fittings

Brass Pipe Fittings

Brass Pipe Fittings are typically used in grease, fuels, LP, natural gas, refrigeration, instrumentation, and hydraulic system applications.

- Material: CA360 brass **NOT LEAD FREE**
- Pressure: operating pressure up to 1,200 PSI
- Temperature Range: -65°F to 250°F
- Vibration Rating: fair resistance
- Used with: brass, bronze, copper, steel, aluminum and iron pipe
- Conformance: meets specifications and standards of ASA, ASME and SAE

Assembly Instructions

1. Tighten approximately 2-1/2 turns past hand tight.

Pipe Size	Thread Size	Working Pressure	Thread OD
1/16	1/16-27	1,200	1/4
1/8	1/8-27	1,200	3/8
1/4	1/4-18	1,200	1/2
3/8	3/8-18	1,200	5/8
1/2	1/2-14	1,200	3/4
3/4	3/4-14	1,000	1
1	1-11/2	1,000	1-1/4

Reducing Coupling



Item ID	Female Pipe Size
70502	1/4 x 1/8
70504	3/8 x 1/8
70505	3/8 x 1/4
70506	1/2 x 1/4
70507	1/2 x 3/8
70509	3/4 x 1/2

Union



Item ID	Female Pipe Size
70551	1/8
70552	1/4
70556	1/2

Adapter



Item ID	Female Pipe Size	Male Pipe Size
70680	1/8	1/8
70692	1/4	1/8
70682	1/4	1/4
70694	3/8	1/4
70684	3/8	3/8
70696	1/2	3/8
70686	1/2	1/2
70698	3/4	1/2

Coupling



Heavy pattern

Item ID	Female Pipe Size
70540	1/8
70542	1/4
70544	3/8
70546	1/2
70550	3/4

Brass Pipe Fittings

Hex Bushing



Item ID	Male Pipe Size	Female Pipe Size
70582	1/4	1/8
70584	3/8	1/8
70585	3/8	1/4
70587	1/2	1/8
70588	1/2	1/4
70589	1/2	3/8
70590	3/4	1/4
70591	3/4	3/8
70592	3/4	1/2
70593	1	1/2
70594	1	3/4

Pipe Lock Nut



Item ID	Female Pipe Size
70600	1/8
70602	1/4

Pipe Cap



Item ID	Female Pipe Size
70560	1/8
70562	1/4
70564	3/8
70566	1/2

Countersunk Hex Plug



Item ID	Male Pipe Size	Hex Size
70595	1/8	3/16
70596	1/4	1/4
70597	3/8	5/16
70598	1/2	3/8

Slotted Plug



Item ID	Male Pipe Size
70670	1/8
70672	1/4

Square Head Plug



Item ID	Male Pipe Size
70570	1/8
70572	1/4
70574	3/8
70576	1/2

Hex Head Plug



Item ID	Male Pipe Size
70704	1/8
70706	1/4
70708	3/8
70710	1/2
70711	3/4

Brass Pipe Fittings

Close Nipple



Item ID	Male Pipe Size	Length
70610	1/8	3/4
70612	1/4	7/8
70614	3/8	1
70616	1/2	1-1/8
70617	3/4	1-5/16

Long Nipple



Item ID	Male Pipe Size	Length
70620	1/8	1-1/2
70621	1/8	2
70622	1/8	2-1/2
70623	1/8	3
70627	1/4	1-1/2
70628	1/4	2
70629	1/4	2-1/2
70630	1/4	3
70640	3/8	1-1/2
70641	3/8	2
70642	3/8	2-1/2
70643	3/8	3
70650	1/2	1-1/2
70651	1/2	2
70652	1/2	2-1/2
70653	1/2	3

Hex Nipple



Heavy pattern

Item ID	Male Pipe Size
70715	1/8
70717	1/4
70719	3/8
70721	1/2
70722	3/4

Reducing Hex Nipple



Item ID	Male Pipe Size	Male Pipe Size
70727	1/4	1/8
70729	3/8	1/8
70730	3/8	1/4
70732	1/2	1/4
70733	1/2	3/8
70734	3/4	1/2

90 Deg Street Elbow



Item ID	Female Pipe Size	Male Pipe Size
70660	1/8	1/8
70662	1/4	1/8
70663	1/4	1/4
70665	3/8	3/8
70667	1/2	1/2
70668	3/4	3/4

90 Deg Elbow



Item ID	Female Pipe Size
70510	1/8
70512	1/4
70514	3/8
70516	1/2
70517	3/4

Brass Pipe Fittings

45 Deg Street Elbow



Item ID	Female Pipe Size	Male Pipe Size
70740	1/8	1/8
70742	1/4	1/4
70744	3/8	3/8
70746	1/2	1/2

Cross



Item ID	Female Pipe Size
70530	1/8
70532	1/4
70534	3/8
70536	1/2

Street Tee



Item ID	Female Pipe Size	Male Pipe Size
70750	1/8	1/8
70752	1/4	1/4
70754	3/8	3/8
70756	1/2	1/2

Bulkhead Coupling



Item ID	Female Pipe Size	External Thread Size (B)	Length
70769	1/8	5/8-18	1.50
70772	1/4	3/4-16	.94
70770	1/4	3/4-16	1.50
70773	3/8	1-14	1.31
70774	1/2	1-1/8-14	1.50

Male Branch Tee



Item ID	Female Pipe Size	Male Pipe Size
70760	1/8	1/8
70762	1/4	1/4
70764	3/8	3/8
70766	1/2	1/2

Bulkhead Coupling F x M



Item ID	Female Pipe Size (A)	External Thread Size (B)	Male Pipe Size (C)	Length
70780	3/8	1-14	1/2	1-29/32

Tee



Item ID	Female Pipe Size
70520	1/8
70522	1/4
70524	3/8
70526	1/2

Brass SAE 45° Flare Fittings

Brass SAE 45° Flare Fittings

Brass SAE 45° Flare Fittings are typically used in LP, natural gas, flammable liquids, instrumentation, refrigeration, power steering, hydraulic and pneumatic systems.

- Material: CA360 brass
- Pressure: Varies on temperature and type of tubing used. See chart below for a good guide.
- Temperature Range: -65°F to 250°F
- Vibration Rating: good resistance- use long nut when greater vibration resistance is required
- Used with: copper, brass, aluminum and steel hydraulic tubing that can be flared
- Conformance: meets specifications and standards of ASA, ASME, SAE and MS

Assembly Instructions

1. Cut tubing to desired length. Make sure all burrs are removed and ends are cut square.
2. Slide nut on tube. Threaded end of nut must face out.
3. Flare end of tube with a 45° flaring tool.
4. Lubricate threads and assemble to fitting body. Nut should be turned hand tight.
5. Tighten assembly with wrench until a solid feeling is encountered. From that point, apply a one-sixth turn- *Do not over-torque as it may damage the fitting or split the tubing at flare.*

Tube OD	Thread Size	PSI	Tube Wall
1/8	5/16-24	2,800	.030
3/16	3/8-24	1,900	.030
1/4	7/16-20	1,400	.030
5/16	1/2-20	1,200	.032
3/8	5/8-18	1,000	.032
7/16	11/16-16	750	.032
1/2	3/4-16	750	.032
5/8	7/8-14	650	.035
3/4	1-1/16-14	550	.035

Cap



Item ID	Tube OD
70126	3/16
70127	1/4
70128	5/16
70129	3/8
70131	1/2
70132	5/8
70133	3/4

Plug



Item ID	Tube OD
70001	3/16
70002	1/4
70003	5/16
70004	3/8
70006	1/2
70007	5/8

Brass SAE 45° Flare Fittings

Short Nut



Item ID	Tube OD
70027	1/4
70028	5/16
70029	3/8
70032	1/2
70033	5/8
70034	3/4

Long Nut



Item ID	Tube OD
70011	3/16
70012	1/4
70013	5/16
70014	3/8
70018	1/2
70019	5/8

Union



Item ID	Tube OD
70050	1/8
70051	3/16
70052	1/4
70053	5/16
70054	3/8
70056	1/2
70057	5/8
70058	3/4

Reducing Union



Item ID	Tube OD	Tube OD
70065	3/8	1/4
70067	1/2	3/8
70068	5/8	1/2

Male Connector



Item ID	Tube OD	Male Pipe Size
70140	1/8	1/8
70141	3/16	1/8
70142	1/4	1/8
70143	1/4	1/4
70145	5/16	1/8
70146	5/16	1/4
70147	3/8	1/8
70148	3/8	1/4
70149	3/8	3/8
70150	3/8	1/2
70152	1/2	1/4
70153	1/2	3/8
70154	1/2	1/2
70155	5/8	3/8
70156	5/8	1/2
70157	3/4	1/2
70158	3/4	3/4

Female Connector



Item ID	Tube OD	Female Pipe Size
70106	3/16	1/8
70107	1/4	1/8
70108	1/4	1/4
70109	5/16	1/8
70110	5/16	1/4
70111	3/8	1/8
70112	3/8	1/4
70113	3/8	3/8
70114	3/8	1/2
70115	1/2	1/4
70116	1/2	3/8
70117	1/2	1/2
70118	5/8	1/2

Brass SAE 45° Flare Fittings

90 Deg Union Elbow



Item ID	Tube OD
70247	1/4
70248	5/16
70249	3/8
70251	1/2
70252	5/8

90 Deg Male Elbow



Item ID	Tube OD	Male Pipe Size
70165	1/8	1/8
70166	3/16	1/8
70167	1/4	1/8
70168	1/4	1/4
70169	1/4	3/8
70170	5/16	1/8
70171	5/16	1/4
70172	3/8	1/8
70173	3/8	1/4
70174	3/8	3/8
70175	3/8	1/2
70177	1/2	1/4
70178	1/2	3/8
70179	1/2	1/2
70180	5/8	3/8
70181	5/8	1/2
70182	3/4	1/2
70183	3/4	3/4

90 Deg Female Elbow



Item ID	Tube OD	Female Pipe Size
70185	3/16	1/8
70186	1/4	1/8
70187	1/4	1/4
70188	5/16	1/8
70189	5/16	1/4
70190	3/8	1/4
70191	3/8	3/8
70192	1/2	3/8
70193	1/2	1/2
70194	5/8	1/2

45 Deg Male Elbow



Item ID	Tube OD	Male Pipe Size
70230	1/4	1/8
70231	1/4	1/4
70232	5/16	1/8
70233	3/8	1/4
70234	3/8	3/8
70235	1/2	3/8
70236	5/8	1/2
70237	5/8	3/8



Brass SAE 45° Flare Fittings

Union Tee



Item ID	Tube OD
70076	3/16
70077	1/4
70078	5/16
70079	3/8
70081	1/2
70082	5/8

Female Flare to MPT



Item ID	Tube OD	Male Pipe Size
70255	1/4	1/4

Copper Tubing



Qty 1 = Roll of 50ft

Item ID	Tube OD	Roll Length
70280	1/8	50 ft
70281	3/16	50 ft
70282	1/4	50 ft
70283	5/16	50 ft
70284	3/8	50 ft
70285	1/2	50 ft

Male Run Tee



Item ID	Tube OD (A & B)	Pipe Size (C)
70202	1/4	1/8
70203	5/16	1/8
70204	5/16	1/4
70205	3/8	1/4
70206	3/8	3/8
70207	1/2	3/8
70208	1/2	1/2
70209	5/8	1/2

Male Branch Tee



Item ID	Tube OD (A & B)	Pipe Size (C)
70090	3/16	1/8
70091	1/4	1/8
70092	1/4	1/4
70093	5/16	1/8
70094	3/8	1/4
70095	3/8	3/8
70097	1/2	3/8
70098	1/2	1/2
70099	5/8	1/2
70100	3/4	1/2

Brass Compression Fittings

Brass Compression Fittings

Brass Compression Fittings are typically used with copper, aluminum and thermoplastic tubing. **Not** recommended for steel tubing. These fittings are manufactured for low and medium pressure tubing connection work where excessive vibration or tube movement is not involved. Not recommended for applications using gaseous media.

NOT LEAD FREE

- Material: CA360 brass
- Pressure: See chart below for working pressures at 73°F
- Temperature Range: -65°F to 250°F
- Vibration Rating: fair resistance- use long nut when greater vibration is needed
- Used with: aluminum, copper, brass and plastic tubing. Plastic tubing requires insert.
- Conformance: meets specifications and standards of ASA, ASME, and SAE

Assembly Instructions

1. Cut tubing to desired length.
2. Slide nut and then sleeve on tube. Threaded end of nut must face toward fitting.
3. Insert tubing into fitting body. Be sure tubing is bottomed on fitting shoulder.
4. Lubricate threads and assemble to fitting body.
5. Tighten nut hand tight. From that point, tighten with a wrench the number of turns indicated below.
 - 1/8" thru 1/4" 1-1/4 additional turns
 - 5/16" 1-3/4 additional turns
 - 3/8" thru 1" 2-1/4 additional turns

Tube OD	Thread Size	Working Pressure
1/8	5/16-24	400
3/16	3/8-24	400
1/4	7/16-24	300
5/16	1/2-24	300
3/8	9/16-24	200
7/16	5/8-24	200
1/2	11/16-20	200
5/8	13/16-18	150
3/4	1-18	100
7/8	1-1/8-18	75

Sleeve



Item ID	Tube OD
70300	1/8
70301	3/16
70302	1/4
70303	5/16
70304	3/8
70305	7/16
70306	1/2
70307	5/8
70308	3/4

Insert



Item ID	Tube OD
70290	1/8
70291	3/16
70292	1/4
70293	5/16
70294	3/8
70296	1/2
70297	5/8

Nut



Item ID	Tube OD
70315	1/8
70316	3/16
70317	1/4
70318	5/16
70319	3/8
70320	7/16
70321	1/2
70322	5/8
70323	3/4

Brass Compression Fittings

Union



Item ID	Tube OD
70330	1/8
70331	3/16
70332	1/4
70333	5/16
70334	3/8
70336	1/2
70337	5/8
70338	3/4

Female Connector



Item ID	Tube OD	Female Pipe Size
70375	1/8	1/8
70376	3/16	1/8
70377	1/4	1/8
70378	1/4	1/4
70379	5/16	1/8
70380	5/16	1/4
70381	3/8	1/8
70382	3/8	1/4
70384	1/2	3/8
70385	5/8	1/2

Bulkhead Union



Item ID	Tube OD
70461	1/4
70462	3/8

90 Deg Union Elbow



Item ID	Tube OD
70366	3/16
70367	1/4
70368	5/16
70369	3/8
70371	1/2

Male Connector



Item ID	Tube OD	Male Pipe Size
70390	1/8	1/8
70391	3/16	1/8
70393	1/4	1/8
70394	1/4	1/4
70395	5/16	1/8
70396	5/16	1/4
70397	3/8	1/8
70398	3/8	1/4
70399	3/8	3/8
70400	3/8	1/2
70401	7/16	1/4
70402	1/2	1/4
70403	1/2	3/8
70404	1/2	1/2
70405	5/8	1/2
70406	3/4	1/2

Brass Compression Fittings

90 Deg Male Elbow



Item ID	Tube OD	Male Pipe Size
70410	1/8	1/8
70411	3/16	1/8
70412	1/4	1/8
70413	1/4	1/4
70414	5/16	1/8
70415	5/16	1/4
70416	3/8	1/8
70417	3/8	1/4
70418	3/8	3/8
70419	3/8	1/2
70420	7/16	1/4
70421	1/2	1/4
70422	1/2	3/8
70423	1/2	1/2
70424	5/8	1/2
70425	3/4	1/2

90 Deg Female Elbow



Item ID	Tube OD	Female Pipe Size
70431	3/16	1/8
70432	1/4	1/8
70433	5/16	1/8
70434	3/8	1/4
70436	1/2	3/8
70437	5/8	1/2

Union Tee



Item ID	Tube OD
70355	1/8
70356	3/16
70357	1/4
70358	5/16
70359	3/8
70361	1/2

Male Run Tee



Item ID	Tube OD (A & B)	Male Pipe Size (C)
70440	3/16	1/8
70441	1/4	1/8
70442	1/4	1/4
70443	5/16	1/8
70444	3/8	1/4
70446	1/2	3/8

Male Branch Tee



Item ID	Tube OD (A & B)	Male Pipe Size (C)
70450	1/8	1/8
70451	3/16	1/8
70452	1/4	1/8
70453	1/4	1/4
70454	5/16	1/8
70455	3/8	1/4
70457	1/2	3/8

Adapter Tee



Item ID	Female Pipe Size (A)	Tube OD (B)	Male Pipe Size (C)
70465	1/8	1/8	1/8
70466	1/8	3/16	1/8
70467	1/8	1/4	1/8

Brass Inverted Flare Fittings

Brass Inverted Flare Fittings

Brass Inverted Flare Fittings are typically used in hydraulic brake, power steering, fuel lines, transmission cooler lines, LP, and natural gas applications.

- Material: CA360 brass
- Pressure: Temperature and type of tubing used are important factors. See chart below for a good guide. Temperature 73° with copper tubing.
- Temperature Range: -65°F to 250°F
- Vibration Rating: excellent resistance
- Used with: copper, brass, aluminum and steel hydraulic tubing that can be flared
- Conformance: meets specifications and standards of ASA, ASME, SAE and MS

Assembly Instructions

1. Cut tubing to desired length. Make sure all burrs are removed and ends are cut square.
2. Slide nut on tube. Threaded end of nut must face out.
3. Flare end of tube with a 45° flaring tool
 - Measure flare diameter
 - Examine flare for excessive thin out
 - On this wall, welded or brazed tubing, use double flare to prevent pinch-off.
4. Lubricate threads and assemble to fitting body. Nut should be turned hand tight.
5. Tighten assembly with wrench until a solid feeling is encountered. From that point, apply a one-sixth turn- *Do not over-torque as it may damage the fitting or split the tubing at flare.*

Tube OD	Thread Size	PSI	Tube Wall
1/8	5/16-24	2,800	.030
3/16	3/8-24	1,900	.030
1/4	7/16-24	1,400	.030
5/16	1/2-20	1,200	.032
3/8	5/8-18	1,000	.032
7/16	11/16-18	750	.032
1/2	3/4-18	750	.032
5/8	7/8-18	650	.035
3/4	1-1/16-16	550	.035

Steel Nut



* Reducing Inverted Flare Nut

Item ID	Tube OD	Male Thread Size
70800	1/8	5/16-28
70801	3/16	3/8-24
70802*	3/16 x 1/4	3/8-24
70808	3/16	9/16-18
70810	1/4	7/16-24
70811*	1/4 x 5/16	7/16-24
70815*	1/4 x 9/16	7/16-24
70818	5/16	1/2-20
70821	3/8	5/8-18
70822	7/16	11/16-18
70825	1/2	3/4-18
70828	5/8	7/8-18
70829	3/4	1-1/16-16

Steel Long Nut



Item ID	Tube OD	Male Thread Size
70836	3/16	3/8-24
70837	1/4	7/16-24

Steel Plug



Item ID	Tube OD
70917	3/16
70918	1/4
70919	5/16
70920	3/8

Brass Inverted Flare Fittings

Union



Item ID	Tube OD
70865	1/8
70866	3/16
70867	1/4
70868	5/16
70869	3/8
70871	1/2
70872	5/8

90 Deg Union Elbow



Item ID	Tube OD
70932	1/4
70933	5/16
70936	1/2

Male Connector



Item ID	Tube OD	Male Pipe Size
70845	1/8	1/8
70846	3/16	1/8
70847	1/4	1/8
70848	1/4	1/4
70849	5/16	1/8
70850	5/16	1/4
70851	5/16	3/8
70852	3/8	1/8
70853	3/8	1/4
70854	3/8	3/8
70856	1/2	3/8
70858	5/8	1/2

90 Deg Male Elbow



Item ID	Tube OD	Male Pipe Size
70895	1/8	1/8
70896	3/16	1/8
70897	1/4	1/8
70898	1/4	1/4
70899	5/16	1/8
70900	5/16	1/4
70902	3/8	1/8
70903	3/8	1/4
70904	3/8	3/8
70906	1/2	3/8
70908	5/8	1/2

Female Connector



Item ID	Tube OD	Female Pipe Size
70950	1/8	1/8
70951	3/16	1/8
70952	1/4	1/8
70953	5/16	1/8
70954	3/8	1/4
70956	1/2	3/8

45 Deg Male Elbow



Item ID	Tube OD	Male Pipe Size
70875	1/8	1/8
70876	3/16	1/8
70877	1/4	1/8
70878	5/16	1/8
70879	5/16	1/4
70880	3/8	1/8
70881	3/8	1/4
70883	1/2	3/8

Brass Inverted Flare Fittings

Union Tee



Item ID	Tube OD
70970	1/8
70972	3/16
70974	1/4
70976	5/16
70978	3/8

Male Run Tee



Item ID	Tube OD	Male Pipe Size
70942	3/16	1/8
70985	3/16 x 1/4	1/4
70944	1/4	1/8

Female Branch Tee



Item ID	Tube OD	Female Pipe Size
70962	3/16	1/8
70964	1/4	1/8
70966	5/16	1/8

Brake Line

3/16" Tube Steel Brake Line



- OEM replacement lines
- Fittings attached
- Double flared ends

Item ID	Tube OD	Length	Fitting Size
73083	3/16	8"	3/8-24
73085	3/16	12"	3/8-24
73089	3/16	20"	3/8-24
73092	3/16	30"	3/8-24
73095	3/16	40"	3/8-24
73099	3/16	51"	3/8-24
73100	3/16	60"	3/8-24

1/4" Tube Steel Brake Line

Item ID	Tube OD	Length	Fitting Size
73110	1/4	8"	7/16-24
73112	1/4	12"	7/16-24
73116	1/4	20"	7/16-24
73119	1/4	30"	7/16-24
73122	1/4	40"	7/16-24
73126	1/4	51"	7/16-24
73127	1/4	60"	7/16-24

5/16" Tube Steel Brake Line

Item ID	Tube OD	Length	Fitting Size
73135	5/16	8"	1/2-20
73137	5/16	12"	1/2-20
73141	5/16	20"	1/2-20
73144	5/16	30"	1/2-20
73148	5/16	40"	1/2-20
73152	5/16	51"	1/2-20
73156	5/16	60"	1/2-20

3/8" Tube Steel Brake Line

Item ID	Tube OD	Length	Fitting Size
73160	3/8	8"	5/8-18
73162	3/8	12"	5/8-18
73166	3/8	20"	5/8-18
73170	3/8	30"	5/8-18
73174	3/8	40"	5/8-18
73178	3/8	51"	5/8-18
73182	3/8	60"	5/8-18

Steel Brake Line- Bubble Flare



- European style
- Fittings attached
- Bubble flared ends

Item ID	Tube OD	Length	Fitting Size
73250	3/16	8"	10-1.0
73252	3/16	12"	10-1.0
73254	3/16	20"	10-1.0
73256	3/16	30"	10-1.0
73258	3/16	40"	10-1.0
73260	3/16	51"	10-1.0
73262	3/16	60"	10-1.0

Steel Brake Line- Metric Thread



- Japanese style
- Fittings attached

Item ID	Tube OD	Length	Fitting Size
73251	3/16	8"	10-1.0
73253	3/16	12"	10-1.0
73255	3/16	20"	10-1.0
73257	3/16	30"	10-1.0
73263	3/16	60"	10-1.0

Steel Brake Line- Roll



- OEM replacement lines
- No fittings attached
- Qty 1 = 25ft roll

Item ID	Tube OD	Length
73200	3/16	25 ft
73201	1/4	25 ft
73202	5/16	25 ft
73203	3/8	25 ft

Union



- Fits bubble flared end brake line
- Thread size: 10-1.0

Item ID	Female Thread Size
73275	10-1.0

Brass Push-In Fittings

Brass Push-In Fittings

Brass Push-In Fittings offer a simple, quick connection process which saves up to 75% of assembly time of standard compression fittings. These fittings are reusable and are typically used in compressed air, pneumatic instrumentation, circuit, lubricant and cooling line applications. **NOT TO BE USED FOR AIR BRAKE APPLICATIONS.**

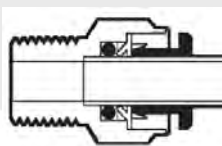
- Material: brass construction
- Pressure: Up to 250 PSI depending on the tubing
- Temperature Range: -10°F to 200°F
- Vibration Rating: excellent resistance
- Used with: nylon, polyethylene and soft metal tubing

Assembly Instructions

1. Cut tubing to desired length. Make sure you cut the tubing square to prevent air leakage.
2. Simply push the tubing in, no tools required.

Disassembly Instructions

1. Hold two fingers on insert and pull tubing out, no tools required.



Male Connector



**Nickel Plated Brass*

Item ID	Tube OD	Male Pipe Size
71856	1/8	1/16
71857	1/8	1/8
71858	1/8	1/4
71859	5/32	1/8
71860	1/4	1/8
71861	1/4	1/4
71862*	5/16	1/8
71863*	5/16	1/4
71864	3/8	1/8
71865	3/8	1/4
71866	3/8	3/8
71867	3/8	1/2
71868	1/2	1/4
71869	1/2	3/8
71870	1/2	1/2

90 Deg Male Elbow Swivel



**Nickel Plated Brass*

Item ID	Tube OD	Male Pipe Size
71879	1/8	1/8
71880	5/32	1/8
71881	1/4	1/8
71883	1/4	1/4
71884*	5/16	1/8
71885*	5/16	1/4
71886	3/8	1/8
71887	3/8	1/4
71888	3/8	3/8
71889	3/8	1/2
71890	1/2	1/4
71891	1/2	3/8
71892	1/2	1/2

Union



**Nickel Plated Brass*

Item ID	Tube OD
71850	1/8
71851	5/32
71852	1/4
71853*	5/16
71854	3/8
71855	1/2

Brass Push-In Fittings

Union Tee



**Nickel Plated Brass*

Item ID	Tube OD
71872	1/8
71873	5/32
71874	1/4
71875*	5/16
71876	3/8
71877	1/2

Male Branch Tee Swivel



**Nickel Plated Brass*

Item ID	Tube OD	Male Pipe Size
71904	1/8	1/8
71905	1/4	1/8
71906	1/4	1/4
71907*	5/16	1/8
71908*	5/16	1/4
71909	3/8	1/4
71910	3/8	3/8
71911	1/2	3/8
71912	1/2	1/2

Male Run Tee Swivel



**Nickel Plated Brass*

Item ID	Tube OD	Male Pipe Size
71894	1/8	1/8
71895	1/4	1/8
71896	1/4	1/4
71897*	5/16	1/8
71898*	5/16	1/4
71899	3/8	1/4
71900	3/8	3/8
71901	1/2	3/8
71902	1/2	1/2

Brass DOT Air Brake Fittings

Brass DOT Air Brake Fittings

Brass DOT Air Brake Fittings are typically used in air brake systems except where temperatures exceed over 200°F or where battery acid can drip on tubing. These fittings are designed to be used with **nylon air brake tubing**. These fittings are easy to assemble because there is no tube preparation or flaring required.

- Material: CA360 Brass
- Pressure: maximum operating pressure of 150 PSI
- Temperature Range: -40°F to 200°F
- Vibration Rating: fair resistance
- Used with: nylon tubing- SAE J844 Type A and B
- Conformance: meets specifications and standards of SAE and DOT FMVSS 571.106

Assembly Instructions

1. Cut tubing to desired length. Make sure you cut the tubing squarely.
2. Slide nut and then sleeve on tubing. Threaded end of nut must face toward fitting body.
3. Insert tubing into the preassembled fitting. Be sure tubing is bottomed in fitting.
4. Tighten nut to required torque as indicated below.

Disassembly Instructions

1. Remove nut and pull tubing out of fitting body.

Tube OD	Thread Size	Additional # of Turns from Hand Tight
1/4"	7/16-24	3
3/8"	17/32-24	4
1/2"	11/16-20	4
5/8"	13/16-18	3-1/2
3/4"	1-18	3-1/2

Sleeve



Item ID	Tube OD
71501	3/16
71502	1/4
71504	3/8
71506	1/2
71507	5/8
71508	3/4

Nut



Item ID	Tube OD
71541	3/16
71542	1/4
71544	3/8
71546	1/2
71547	5/8
71548	3/4

Stainless Steel Insert



Item ID	Tube OD
71582	1/4
71584	3/8
71586	1/2
71587	5/8
71588	3/4

Brass DOT Air Brake Fittings

Union



Item ID	Tube OD
71552	1/4
71554	3/8
71556	1/2
71557	5/8
71558	3/4

Female Connector



Item ID	Tube OD	Female Pipe Size
71593	3/8	1/8
71594	3/8	1/4
71595	3/8	3/8
71596	1/2	3/8
71597	3/4	1/2

Bulkhead Union



Item ID	Tube OD
71629	1/4
71630	3/8
71631	1/2
71632	5/8

Male Connector



Item ID	Tube OD	Male Pipe Size
71512	3/16	1/16
71513	3/16	1/8
71514	3/16	1/4
71515	1/4	1/8
71516	1/4	1/4
71517	1/4	3/8
71518	3/8	1/8
71519	3/8	1/4
71520	3/8	3/8
71521	3/8	1/2
71522	1/2	1/4
71523	1/2	3/8
71524	1/2	1/2
71525	1/2	3/4
71526	5/8	3/8
71527	5/8	1/2
71528	5/8	3/4
71529	3/4	1/2
71530	3/4	3/4

Brass DOT Air Brake Fittings

90 Deg Union Elbow



Item ID	Tube OD
71589	1/4
71590	3/8
71591	1/2
71592	5/8

45 Deg Male Elbow



Item ID	Tube OD	Male Pipe Size
71639	1/4	1/8
71638	1/4	1/4
71636	3/8	1/8
71640	3/8	1/4
71641	3/8	3/8
71642	1/2	1/4
71643	1/2	3/8
71644	1/2	1/2
71646	5/8	3/8
71645	5/8	1/2

90 Deg Male Elbow



Item ID	Tube OD	Male Pipe Size
71560	3/16	1/8
71561	3/16	1/4
71562	1/4	1/8
71563	1/4	1/4
71564	1/4	3/8
71565	3/8	1/8
71567	3/8	1/4
71569	3/8	3/8
71570	3/8	1/2
71571	1/2	1/4
71572	1/2	3/8
71574	1/2	1/2
71575	5/8	3/8
71576	5/8	1/2
71577	5/8	3/4
71579	3/4	1/2

90 Deg Female Elbow



Item ID	Tube OD	Female Pipe Size
71613	1/4	1/8
71614	3/8	1/4
71615	3/8	3/8
71616	1/2	3/8

Brass DOT Air Brake Fittings

Union Tee



Item ID	Tube OD (A)	Tube OD (B)	Tube OD (C)
71598	1/4	1/4	1/4
71600	3/8	1/4	3/8
71601	3/8	3/8	3/8
71605	1/2	3/8	1/2
71603	1/2	1/2	1/2

Anchor Fitting For Tubing



Item ID	Tube OD	Female Pipe Size
70776	3/8	3/8
70775	1/2	3/8

Male Run Tee



Item ID	Tube OD (A)	Tube OD (B)	Male Pipe Size (C)
71606	1/4	1/4	1/8
71650	1/4	1/4	1/4
71607	3/8	1/4	1/4
71608	3/8	3/8	1/4
71609	3/8	3/8	3/8
71610	1/2	1/2	3/8
71612	5/8	5/8	1/2

Male Branch Tee



Item ID	Tube OD (A)	Male Pipe Size (B)	Tube OD (C)
71617	3/16	1/8	3/16
71619	1/4	1/8	1/4
71618	1/4	1/4	1/4
71620	3/8	1/8	3/8
71621	3/8	1/4	1/4
71622	3/8	1/4	3/8
71623	3/8	3/8	3/8
71625	1/2	3/8	3/8
71624	1/2	3/8	1/2
71626	5/8	1/2	5/8

Brass Transmission Fittings

Sleeve



Brass Transmission Fittings are ideally suited for use in passive protected air transmission applications. Other applications include seat controls and dash controls. A specifically designed slotted sleeve helps eliminate notch stress related to over torque.

- Material: CA360 brass
- Working Pressure: up to 150 PSI
- Temperature Range: -40°F to 200°F
- Use With: nylon air brake tubing SAE J844

Item ID	Tube OD
71655	1/8
71662	5/32

Nut



Item ID	Tube OD
71656	1/8
71663	5/32

Union



Item ID	Tube OD
71657	1/8
71664	5/32

Male Connector



Item ID	Tube OD	Male Pipe Size
71658	1/8	1/16
71659	1/8	1/8
71665	5/32	1/16
71666	5/32	1/8

90 Deg Male Elbow



Item ID	Tube OD	Male Pipe Size
71660	1/8	1/16
71661	1/8	1/8
71667	5/32	1/8

Brass DOT Push-In Fittings

Brass DOT Push-In Fittings

Brass DOT Push-In Fittings are typically used in air brake systems except where temperatures exceed 200°F or where battery acid can drip on tubing. **Not for fuel, water or oil.**

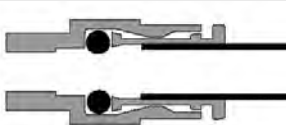
- Material: CA360 Brass body
- Pressure: vacuum to 150 PSI
- Temperature Range: -40°F to 200°F
- Vibration Rating: moderate vibration resistance
- Used with: SAE J844 Type A and B nylon tubing
- Conformance: meets DOT FMVSS 571.106 and SAE J1131 air brake system performance requirements

Assembly Instructions

1. Cut tubing to desired length. *Make sure you cut the tubing square to prevent air leakage.*
2. Insert tubing straight into connector until a solid stop is felt.
3. Gently tug on tubing to ensure tubing is secure.

Disassembly Instructions

1. Hold two fingers on insert and pull tubing out, no tools required.



Union



Item ID	Tube OD
71929	5/32
71930	1/4
71931	3/8
71932	1/2
71933	5/8
71934	3/4

Bulkhead Union



Item ID	Tube OD
71936	1/4
71937	3/8
71938	1/2

Male Connector



Item ID	Tube OD	Male Pipe Size
71940	5/32	1/16
71941	5/32	1/8
71944	1/4	1/8
71945	1/4	1/4
71946	1/4	3/8
71947	3/8	1/8
71948	3/8	1/4
71949	3/8	3/8
71950	3/8	1/2
71951	1/2	1/4
71952	1/2	3/8
71953	1/2	1/2
71959	5/8	3/8
71960	5/8	1/2
71961	3/4	1/2

Brass DOT Push-In Fittings

90 Deg Male Elbow



Item ID	Tube OD	Male Pipe Size
71968	5/32	1/16
71969	5/32	1/8
71970	1/4	1/8
71971	1/4	1/4
71972	1/4	3/8
71973	3/8	1/8
71974	3/8	1/4
71975	3/8	3/8
71976	3/8	1/2
71977	1/2	1/4
71978	1/2	3/8
71979	1/2	1/2
71981	5/8	1/2

90 Deg Male Elbow Swivel



Item ID	Tube OD	Male Pipe Size
71970S	1/4	1/8
71971S	1/4	1/4
71973S	3/8	1/8
71974S	3/8	1/4
71975S	3/8	3/8
71978S	1/2	3/8

45 Deg Male Elbow



Item ID	Tube OD	Male Pipe Size
71988	1/4	1/8
71989	1/4	1/4
71991	3/8	1/4
71992	3/8	3/8
71994	1/2	3/8
71995	1/2	1/2
71996	5/8	3/8
71997	5/8	1/2

Union Tee



Item ID	Tube OD
71954	1/4
71955	3/8
71956	1/2

Branch Tee Swivel



Item ID	Tube OD	Male Pipe Size
71921	1/4	1/4
71922	3/8	1/4
71923	3/8	3/8
71924	1/2	3/8

Run Tee Swivel



Item ID	Tube OD	Male Pipe Size
71916	1/4	1/4
71917	3/8	1/4
71918	3/8	3/8
71919	1/2	3/8

Composite DOT Push-In Fittings

Composite DOT Push-In Fittings

Composite DOT Push-In Fittings are typically used in air brake systems except where temperatures exceed 140°F. These fittings feature rugged ultraviolet and vibration resistant composite bodies. The benefit of using composite fittings over brass is the weight savings. **Not for fuel, water or oil.**

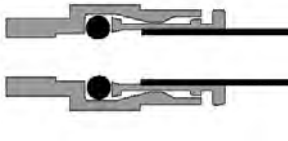
- Material: composite body
- Pressure: max operating pressure 145 PSI
- Temperature Range: -40°F to 140°F
- Vibration Rating: moderate vibration resistance
- Used with: nylon tubing that conforms to both SAE J844 and DOT FMVSS 49 CFR 571.106
- Conformance: meets DOT FMVSS 571.106 and SAE J2494-3 standards

Assembly Instructions

1. Cut tubing to desired length. *Make sure you cut the tubing square to prevent air leakage.*
2. Insert tubing straight into connector until a solid stop is felt.
3. Gently tug on tubing to ensure tubing is secure.

Disassembly Instructions

1. Hold two fingers on insert and pull tubing out, no tools required.



Union



Item ID	Tube OD
71929P	5/32
71930P	1/4
71931P	3/8
71932P	1/2
71933P	5/8

Male Connector



Item ID	Tube OD	Male Pipe Size
71944P	1/4	1/8
71945P	1/4	1/4
71948P	3/8	1/4
71949P	3/8	3/8
71952P	1/2	3/8
71960P	5/8	1/2

90 Deg Male Elbow Swivel



- Swivel is **not** free spinning but once installed the head will rotate 360 degrees

Item ID	Tube OD	Male Pipe Size
71970P	1/4	1/8
71971P	1/4	1/4
71973P	3/8	1/8
71974P	3/8	1/4
71975P	3/8	3/8
71978P	1/2	3/8
71981P	5/8	1/2

Union Tee



Item ID	Tube OD
71954P	1/4
71955P	3/8
71956P	1/2

Air Brake Tubing & Hose

Air Brake Tubing



Air Brake Tubing retains its flexibility longer than traditional nylon tubing in harsh heat, cold and oil conditions. This tubing provides longer service life than traditional nylon tubing in these harsh conditions.

- Heat, light and UV stabilized
- Pressure: max working pressure of 150 PSI
- Temperature Range: -85°F to 200°F
- Conformance: meets DOT FMVSS 571.106 and SAE J844 standards

Available in other colors on a special order basis

Item ID	OD	Wall	Length	Color
72300	1/8	.023	Foot	Black
72300-100	1/8	.023	100 ft	Black
72299	5/32	.032	Foot	Black
72299-100	5/32	.032	100 ft	Black
72302	3/16	.035	Foot	Black
72302-100	3/16	.035	100 ft	Black
72301	1/4	.040	Foot	Black
72301-100	1/4	.040	100 ft	Black
72304	3/8	.062	Foot	Black
72304-100	3/8	.062	100 ft	Black
72306	1/2	.062	Foot	Black
72306-100	1/2	.062	100 ft	Black
72308	5/8	.094	Foot	Black
72308-50	5/8	.094	50 ft	Black
72310	3/4	.094	Foot	Black
72310-50	3/4	.094	50 ft	Black

Air Brake Tubing- Colored

Item ID	OD	Wall	Length	Color
72304R-100	3/8	.062	100 ft	Red
72304B-100	3/8	.062	100 ft	Blue
72305	1/2	.062	Foot	Red
72305-100	1/2	.062	100 ft	Red
72307	1/2	.062	Foot	Blue
72307-100	1/2	.062	100 ft	Blue

Rubber Air Brake Hose



Rubber Air Brake Hose is designed for conveying air in truck and industrial trailer brake systems. The synthetic oil resistant tube and cover with a four spiral polyester reinforcement makes it virtually kink-proof and keeps it flexible even in extreme temperatures.

- Cover: Black EPDM, RMA Class C
- Temperature Range: -40°F to 200°F
- Specification: SAE J1402A / FMVSS 106
- Sold by the foot

Item ID	Hose ID	Hose OD	Reel Length
71798	3/8	3/4	250 ft
71799	1/2	7/8	250 ft

Air Brake Hose Fittings

Air Brake Hose Fittings

Air Brake Hose Fittings are typically used in air brake hose connections. These fittings can be used for nearly any brake line.

- Material: CA360 Brass
- Pressure: Determined by maximum working pressure for hose size.
- Temperature Range: -40°F to 120°F
- Used with: rubber air brake hose (**71798 & 71799**)

Assembly Instructions

1. Slide nut and sleeve onto hose. Make sure bevel edge of sleeve faces out toward fitting.
2. Push hose into fitting until it bottoms.
3. Screw nut until contact is made with body hex.

Note: *When reassembling fitting, body and nut should be inspected. Only reuse if in proper condition. Sleeves should **never** be reused.*

Sleeve



Item ID	Hose ID
71815	3/8
71816	1/2

Nut



Item ID	Hose ID
71817	3/8
71818	1/2

Hose Adapter



Item ID	Hose ID	Male Pipe Size
71805	3/8	1/4
71806	3/8	3/8
71807	3/8	1/2
71808	1/2	3/8
71809	1/2	1/2

Hose Adapter with Spring



Item ID	Hose ID	Male Pipe Size
71800	3/8	1/4
71801	3/8	3/8
71802	3/8	1/2
71803	1/2	3/8
71804	1/2	1/2

Hose Mender



Item ID	Hose ID
71810	3/8
71811	1/2

Male Adapter



Item ID	ABS Thread Size	Male Pipe Size
71820	3/8	1/4
71821	3/8	3/8
71822	1/2	3/8
71823	1/2	1/2

Air Brake Hose Fittings

Hose End Repair Kit



Hose End Repair Kits are a permanent solution for your damaged air brake hoses. One package will repair two 3/8" rubber air brake hoses. Features live swivel fittings.

- Contents: 2 fittings and installation tool
- Meets DOT106 and SAE J1402
- Made in USA

Item ID	Hose ID	Male Pipe Size
71825	3/8	3/8
71826	3/8	1/2

Hose Spacer



Hose Spacers feature high quality material for added low temperature, impact, and ultra-violet resistance. Versatile design for diverse applications.

Item ID	Hose ID	Hose ID
71829	3/8	3/8
71828	1/2	3/8
71827	1/2	1/2

Gladhand Seals



Gladhand Seals are constructed of rubber and feature a double lip.

- Universal

Other styles available on a special order basis

Item ID	Color
71670	Black
71671	Red
71672	Blue

Brass Valves & Drain Cocks

Ball Valve



Ball Valves feature a forged brass body and are full port. These valves are suitable for a full range of liquids and gases.

NOT LEAD FREE

- Female NPT Ends
- Non-locking handle
- Fast 1/4 turn open or close operation
- Pressure: 600 PSI non-shock cold water, gas, oil and 150 PSI saturated steam
- Temperature Range: -22°F to 302°F
- Made in Italy

*Made in China

Item ID	Size
72284	1/4
72285	3/8
72286	1/2
72287	3/4
72288	1
72289	1-1/4
72282*	1-1/2
72283*	2

Ball Valve- Premium



Premium Ball Valves feature a forged brass body and are full port. These industrial valves are designed to provide years of service. **NOT LEAD FREE**

- Female NPT Ends
- Non-locking handle
- Fast 1/4 turn open or close operation
- Pressure: 600 PSI non-shock cold water, gas, and oil
- Temperature Range: -17°F to 350°F
- Made in USA

Item ID	Size
72240	1/4
72241	3/8
72242	1/2
72243	3/4
72244	1

90 Deg Ball Valve



90 Deg Ball Valves feature a forged brass body and a chrome plated brass ball. These industrial valves are designed to provide years of service.

- Female NPT x Male NPT Ends
- T-Handle
- Fast 1/4 turn open or close operation
- Pressure: maximum pressure 250 PSI and saturated steam up to 150 PSI
- Temperature Range: -50°F to 350°F

Item ID	Size
72248	3/8
72249	1/2

Brass Valves & Drain Cocks

Mini Ball Valve F X M



Mini Ball Valves feature a solid chrome plated brass ball. Double seal system allows valve to be operated in both directions making installation easier.

- Female NPT x Male NPT Ends
- Fast 1/4 turn open or close operation
- Pressure: maximum pressure 235 PSI
- Temperature Range: 32°F to 176°F

Item ID	Size
72260	1/8
72261	1/4

Mini Ball Valve F X F



Mini Ball Valves feature a solid chrome plated brass ball. Double seal system allows valve to be operated in both directions making installation easier.

- Female NPT Ends
- Fast 1/4 turn open or close operation
- Pressure: maximum pressure 235 PSI
- Temperature Range: 32°F to 176°F

Item ID	Size
72266	1/8
72267	1/4

Plug Valve M X M



Plug Valves have an extruded brass body and a one piece handle. The valve **must** be installed so that the flow media travels in the direction of the arrow on the valve handle.

- Male NPT Ends
- Fast 1/4 turn open or close operation
- Pressure: maximum pressure 250 PSI
- Temperature Range: -40°F to 17°F

Item ID	Size
72263	1/8
72264	1/4

Brass Valves & Drain Cocks

Truck Valve- Hose X MPT



- Brass body
- Pressure: maximum pressure 150 PSI
- Temperature Range: -30°F to 250°F

Item ID	Hose Size	Male Pipe Size
72250	3/8	3/8
72251	5/8	3/8
72253	5/8	1/2
72254	3/4	1/2

Truck Valve- FPT x MPT



- Brass body
- Pressure: maximum pressure 150 PSI
- Temperature Range: -30°F to 250°F

Item ID	Female Pipe Size	Male Pipe Size
72280	3/8	3/8
72281	1/2	1/2

Truck Valve Hose x MPT- Removable Barb



- Removable hose barb
- Brass body
- Pressure: maximum pressure 150 PSI
- Temperature Range: -30°F to 250°F

Item ID	Hose Size	Male Pipe Size
72255	5/8	1/2
72256	3/4	1/2

Brass Valves & Drain Cocks

Internal Seal Drain Cock



Drain Cocks feature brass bodies and steel handles. Hand tightening provides a metal-to-metal seal. Available in both internal seal and external seal. For automotive or industrial use only.

- Pressure: maximum pressure 150 PSI
- Temperature Range: -65°F to 250°F

Item ID	Male Pipe Size
71000	1/8
71002	1/4

External Seal Drain Cock



*71021

Item ID	Male Pipe Size
71035	1/8
71037	1/4
71021*	1/4
71039	3/8
71041	1/2

Bib Drain Valve



Item ID	Hose Size	Male Pipe Size
71007	3/8	1/4

Ground Plug Shutoff Cock



Ground Plug Shutoff Cocks feature brass castings or forged bodies. Designed for automotive or industrial use.

- Pressure: maximum pressure 30 PSI
- Temperature Range: 32°F to 125°F

Item ID	Male Pipe Size
71012	1/8
71014	1/4
71016	3/8
71018	1/2

Ground Plug Shutoff Cock- Comp x MPT



Item ID	Tube OD	Male Pipe Size
71101	1/4	1/8

Ground Plug Shutoff Cock- FPT x MPT



Item ID	Female Pipe Size	Male Pipe Size
71114	1/8	1/8
71115	1/4	1/4
71116	3/8	3/8

Ground Plug Shutoff Cocks- FPT x FPT



Item ID	Female Pipe Size
71125	1/8
71105	1/4

Steel Pipe Fittings

Steel Pipe Fittings

Steel Pipe Fittings are typically used in grease, instrumentation, and most hydraulic systems.

- Material: carbon steel
- Pressure: see chart below
- Temperature Range: -65°F to 400°F
- Vibration Rating: fair resistance
- Conformance: meets SAE specifications
- Zinc or yellow dichromate finish

Pipe Size	Thread Size	Working Pressure	Thread OD
1/4	1/4-18	4,000	1/2
3/8	3/8-18	3,000	5/8
1/2	1/2-14	3,000	3/4
3/4	3/4-14	2,500	1
1	1-11/2	2,000	1-1/4

Hex Bushing



Item ID	Male Pipe Size	Female Pipe Size
75100	1/4	1/8
75101	3/8	1/8
75102	3/8	1/4
75104	1/2	1/4
75105	1/2	3/8
75108	3/4	3/8
75109	3/4	1/2
75112	1	1/2
75113	1	3/4

Coupling



Item ID	Female Pipe Size
75003	1/4
75005	3/8
75008	1/2
75011	3/4
75013	1

Hex Nipple



Item ID	Male Pipe Size	Male Pipe Size
75042	1/4	1/4
75045	3/8	3/8
75047	1/2	3/8
75048	1/2	1/2
75050	3/4	1/2
75051	3/4	3/4
75053	1	1

Steel JIC 37° Flare Fittings

Steel JIC 37° Flare Fittings

JIC 37° Flare Steel Fittings are typically used in hydraulic, instrumentation, and chemical processing systems.

- Material: carbon steel
- Pressure: see chart below for a good guide.
- Temperature Range: -65°F to 400°F
- Vibration Rating: good resistance- decreases with the increase in tube size
- Used with: copper, brass, aluminum, steel and other tubing that can be flared
- Conformance: meets specifications and standards of ASA, ASME, SAE.
- Zinc or yellow dichromate finish

Assembly Instructions

1. Cut tubing to desired length. Make sure all burrs are removed and ends are cut square.
2. Slide nut on tube. Threaded end of nut must face toward fitting body.
3. Flare end of tube with a 37° flaring tool
4. Lubricate threads and assemble to fitting body. Nut should be turned hand tight.
5. Tighten assembly with wrench until a solid feeling is encountered. From that point, apply a one-sixth turn- *Do not over-torque as it may damage the fitting or split the tubing at flare.*

Thread size & port size (o-ring thread) are the same thread specifications.

Tube OD	Dash Size	Thread Size	PSI
1/8	02	5/16-24	5,000
3/16	03	3/8-24	5,000
1/4	04	7/16-20	5,000
5/16	05	1/2-20	5,000
3/8	06	9/16-18	5,000
1/2	08	3/4-16	4,500
5/8	10	7/8-14	3,500
3/4	12	1-1/16-12	3,500
7/8	14	1-3/16-12	3,000
1	16	1-5/16-12	3,000
1-1/4	20	1-5/8-12	2,500

Cap



Item ID	Tube OD
76004	1/4
76005	5/16
76006	3/8
76008	1/2
76010	5/8
76012	3/4
76014	7/8
76016	1
76020	1-1/4

Plug



Item ID	Tube OD
76034	1/4
76035	5/16
76036	3/8
76038	1/2
76040	5/8
76042	3/4
76044	7/8
76046	1
76048	1-1/4

Hex Union



Item ID	Tube OD	Tube OD
77205	1/4	1/4
77207	5/16	5/16
77210	3/8	3/8
77212	1/2	3/8
77213	1/2	1/2
77216	5/8	1/2
77217	5/8	5/8
77221	3/4	5/8
77222	3/4	3/4

Steel JIC 37° Flare Fittings

Male Connector



Item ID	Tube OD	Male Pipe Size
77073	1/4	1/8
77078	3/8	1/4
77082	1/2	3/8
77083	1/2	1/2
77086	5/8	1/2
77089	3/4	3/4

Straight Thread O-Ring 90 Deg Elbow



Item ID	Tube OD	Port Size
78052	1/4	1/4
78053	1/4	3/8
78056	3/8	1/2
78057	1/2	3/8
78058	1/2	1/2

Straight Thread O-Ring Connector



Item ID	Tube OD	Port Size
78002	1/4	1/4
78008	3/8	1/2
78010	1/2	3/8
78011	1/2	1/2
78012	1/2	5/8

90 Deg Male Elbow



Item ID	Tube OD	Male Pipe Size
77052	1/4	1/8
77056	3/8	1/4
77060	1/2	1/2
77064	5/8	1/2
77067	3/4	3/4

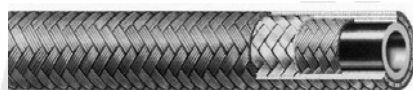
90 Deg Male Long Elbow



Item ID	Tube OD	Male Pipe Size
70163	5/16	1/8

Hydraulic Hose & Fittings

H069 General Purpose Truck Hose



H069 General Purpose Truck Hose is typically used in medium pressure hydraulic, air, oil, fuel or grease lines on fork lifts, trucks & off-highway vehicles. **Sizes 4 thru 12 are DOT approved.**

- Reinforcement: 1 fiber braid and 1 steel braid
- Cover: fiber braid
- Temperature Range: Sizes 4 thru 16: -40°F to 300°F
- Specifications: SAE 100R5, SAE J1402 Type II, DOT All, ABS
- H069 hose can be used with these hose ends: 069 'E' Series, 069 'D' Series and 247 'N' Series

Item ID	Hose ID	Hose OD	Work Pressure (PSI)	Min Burst Pressure (PSI)	W/H #
72350	3/16	33/64	3,000	12,000	H06904
72352	1/4	37/64	3,000	12,000	H06905
72354	5/16	43/64	2,250	9,000	H06906
72356	13/32	49/64	2,000	8,000	H06908
72358	1/2	59/64	1,750	7,000	H06910
72360	5/8	1-5/64	1,500	6,000	H06912

247 N Series SAE 37° JIC Female Swivel



Field Attachable 247 'N' Series Hose Ends are typically used in medium pressure and high temperature hose lines for a variety of applications including truck, industrial, and small engine where temperature may be a problem.

- Material: AISI/SAE 12L14 carbon steel
- Pressure: determined by the maximum working pressure for the hose size
- Zinc clear trivalent chromate
- To determine the correct length of hose, subtract the cut-off factor for each end from the overall length of the assembly.
- Compatible Hose: H059, H069, H166, H169, H229, H366, H569

Assembly Instructions: (1) Lubricate insert threads and ID of hose. (2) Screw hose into socket until hose bottoms- back out 1/4 turn. (3) Screw insert into socket until insert touches socket.

**Swivel nuts are universal- both SAE 45° and JIC 37° connections*

^SAE 45° flare connection only

Item ID	Hose ID	Tube Size	Thread Size	Hose Cut-Off Factor	Hose Part #	W/H #
72370*	3/16	1/4	7/16-20	1-5/16	72350	24704N-604
72371*	1/4	5/16	1/2-20	1-1/2	72352	24705N-605
72372	5/16	3/8	9/16-18	1-1/2	72354	24706N-606
72373^	5/16	3/8	5/8-18	1-7/16	72354	24706N-406
72374*	13/32	1/2	3/4-16	1-3/4	72356	24708N-608
72376*	1/2	5/8	7/8-14	1-3/4	72358	24710N-610
72378	5/8	3/4	1-1/16-12	1-15/16	72360	24712N-612

Hydraulic Hose & Fittings

H213 Truck Hose



H213 Truck Hose is typically used as a general purpose truck hose. For use in fuel, diesel fuel, high temperature petroleum oil and air brake applications. **Sizes 4 thru 12 are DOT approved.**

- Reinforcement: 1 fiber braid and 1 steel braid
- Cover: fiber braid
- Temperature Range: **Air brake:** -40°F to 200°F, **Hot oil & fluids:** -50°F to 302°F
- Specifications: SAE J1402 Type A1, DOT A1
- H213 hose can be used with these hose ends: 213 'N' Series

Item ID	Hose ID	Hose OD	Work Pressure (PSI)	Min Burst Pressure (PSI)	W/H #
72500	3/16	31/64	2,000	8,000	H21304
72502	5/16	39/64	1,500	6,000	H21306
72503	13/32	47/64	1,250	5,000	H21308
72504	1/2	53/64	1,000	4,000	H21310

213 N Series SAE 37° JIC Female Swivel



Field Attachable 213 'N' Series Hose Ends are typically used in medium pressure and high temperature hose lines for a variety of applications including truck, industrial and small engines where high temperatures exist.

- Material: AISI/SAE 12L14 carbon steel
- Pressure: determined by the maximum working pressure for the hose size
- Yellow zinc or zinc clear chromate
- To determine the correct length of hose, subtract the cut-off factor for each end from the overall length of the assembly.
- Compatible Hose: H213

Assembly Instructions: (1) Lubricate insert threads and ID of hose. (2) Screw hose into socket until hose bottoms- back out 1/4 turn. (3) Screw insert into socket until insert touches socket.

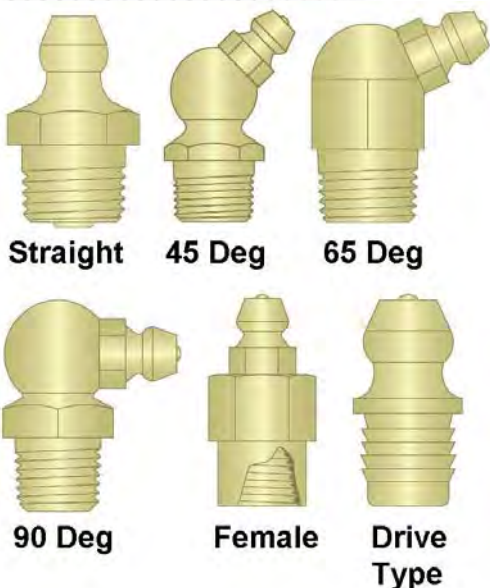
**Swivel nuts are universal- both SAE 45° and JIC 37° connections*

^SAE 45° flare connection only

Item ID	Hose ID	Tube Size	Thread Size	Hose Cut-Off Factor	Hose Part #	W/H #
72507*	3/16	1/4	7/16-20	1-1/4	72500	21304N-604
72508^	5/16	3/8	5/8-18	1-3/8	72502	21306N-406
72510	5/16	3/8	9/16-18	1-3/8	72502	21306N-606
72511*	13/32	1/2	3/4-16	1-9/16	72503	21308N-608
72512*	1/2	5/8	7/8-14	1-5/8	72504	21310N-610

Grease Fittings & Accessories

Grease Fittings



1/4-28 Thread

SAE Thread Grease Fittings are typically used on cars, light trucks, and industrial machinery.

- Max Pressure: 8000 PSI
- Zinc dichromate
- Case hardened

Item ID	Description
73010	Straight
73013	Straight 11/16 Overall
73014	Straight 15/16 Overall
73011	45 Deg
73012	90 Deg

5/16-24 & 3/8-24 Thread

Item ID	Description
73002	5/16-24 Straight
73003	3/8-24 Straight

1/8" NPT Tapered Pipe Thread

Pipe Thread Grease Fittings are larger in diameter than most UNF or SAE threads and also provide additional strength. Pipe Threads have a taper like thread to provide a leak proof installation. Pipe thread grease fittings are often used in the construction and the agricultural industry where heavy machinery is required.

- Max Pressure: 8000 PSI
- Zinc dichromate
- Case hardened

Drive Type

Drive Type Grease Fittings are used in untapped holes and save time and money by removing the tapping requirements. Not recommended for high pressure applications. Favored by OEMs.

- Max Pressure: 8000 PSI
- Zinc dichromate
- Case hardened

Item ID	Description
73029	1/8 Tapered
73030	3/16 Tapered- Ball Check
73031	1/4 Tapered- Ball Check
73032	5/16 Tapered- Ball Check

Item ID	Description
73020	Straight
73026	Straight Leak-Proof
73023	Straight 1-1/4 Overall
73024	Straight 1-3/4 Overall
73025	Straight 2-5/8 Overall
73027	Female Straight
73021	45 Deg
73028	65 Deg
73022	90 Deg

1/4" NPT Tapered Pipe Thread

Item ID	Description
73000	Straight
73001	65 Deg

Grease Fittings & Accessories

M6 x 1.0 Metric Thread

Metric Grease Fittings are used in multiple applications ranging from automotive to industrial applications.

- Max Pressure: 8000 PSI
- Zinc dichromate
- Case hardened

Item ID	Description
73040	Straight
73041	45 Deg
73042	90 Deg

M8 x 1.0 Metric Thread

Item ID	Description
73043	Straight
73044	45 Deg
73045	90 Deg

M10 x 1.0 Metric Thread

Item ID	Description
73046	Straight
73047	45 Deg
73048	90 Deg

Grease Fitting Adapter



Item ID	Description
73055	1/4-28 Male Thread x 1/8 Female Pipe

1/8" FPT Grease Couplers



- 1/8" Female Pipe Thread

Item ID	Description
73050	3 Jaw w/ Ball Check, 6000 PSI
73051	4 Jaw w/ Ball Check, 6000 PSI
73052	3 Jaw w/ Ball Check, 7500 PSI- HD
73053	3 Jaw Lincoln Industrial, 6000 PSI

Pistol Grip Grease Gun



Pistol Grip Grease Gun is an easy, one-handed operation grease gun. This gun works with 14 oz cartridges or a bulk load. Head cap port for adding air bleeder or bulk loader fitting.

- Develops up to 5000 PSI
- Equipped with 3-1/2" grease pipe and coupler
- Can be used with our grease #s **29068** & **29078**

Item ID	Description
73062	2-way loading, Develops up to 5000PSI

Grease Whip Hose



Standard Duty Grease Whip Hoses feature 1/8" male pipe threads on each end.

- Burst pressure: 11,600 PSI
- For use with hand grease guns **only**

Item ID	Length	Description
73066	12"	1/8 MPT Ends, 3000 PSI
73067	18"	1/8 MPT Ends, 3000 PSI

Black Pipe Fittings

Pipe Nipple- Sch 40



Black Pipe Steel Nipples are constructed of welded steel and are rated at 150#. These fittings conform to the below specifications.

- Product complies with ASTM A-53, A-733 and ANSI B1.20.1 for threading, dimensions and pipe specifications.

Pipe Size	Outside Diameter
1/8	.405
1/4	.540
3/8	.675
1/2	.840
3/4	1.050

Pipe Size	Outside Diameter
1	1.315
1-1/4	1.660
1-1/2	1.900
2	2.375
2-1/2	2.875

Item ID	Pipe Size	Length
74001	1/8	close (3/4)
74002	1/8	1-1/2
74003	1/8	2
74004	1/8	2-1/2
74005	1/8	3
74008	1/8	4
74011	1/8	6
74021	1/4	close (7/8)
74022	1/4	1-1/2
74023	1/4	2
74024	1/4	2-1/2
74025	1/4	3
74026	1/4	3-1/2
74027	1/4	4
74029	1/4	5
74031	1/4	6
74041	3/8	close (1)
74042	3/8	1-1/2
74043	3/8	2
74044	3/8	2-1/2
74045	3/8	3
74046	3/8	3-1/2
74047	3/8	4
74049	3/8	5
74051	3/8	6
74061	1/2	close (1-1/8)
74062	1/2	1-1/2
74063	1/2	2
74064	1/2	2-1/2
74065	1/2	3
74066	1/2	3-1/2

Item ID	Pipe Size	Length
74067	1/2	4
74069	1/2	5
74071	1/2	6
74081	3/4	close (1-3/8)
74082	3/4	1-1/2
74083	3/4	2
74084	3/4	2-1/2
74085	3/4	3
74086	3/4	3-1/2
74087	3/4	4
74089	3/4	5
74091	3/4	6
74101	1	close (1-1/2)
74102	1	2
74103	1	2-1/2
74104	1	3
74106	1	4
74108	1	5
74110	1	6
74121	1-1/4	close (1-5/8)
74122	1-1/4	2
74123	1-1/4	2-1/2
74124	1-1/4	3
74126	1-1/4	4
74128	1-1/4	5
74130	1-1/4	6
74143	1-1/2	close (1-3/4)
74145	1-1/2	2-1/2
74155	2	close (2)
74158	2	3
74160	2	4

Pipe Nipple- Sch 80



Black Pipe Steel Nipples Schedule 80 are constructed of welded steel and are rated at 300#. Designed to handle higher pressure and are more rugged than the 150# nipples. These fittings conform to the below specifications.

- Dimension: ASTM A733
- Material: ASTM A53
- Threading: ASME B.1.20.1

Item ID	Pipe Size	Length
74190	1/8	close (3/4)
74191	1/4	close (7/8)
74192	3/8	close (1)
74193	1/2	close (1-1/8)
74194	3/4	close (1-3/8)
74195	1	close (1-1/2)

Black Pipe Fittings

Merchant Coupling- Steel



Black Pipe Fittings are constructed of malleable iron except where noted and are rated at 150#. To be used with Schedule 40 pipe nipples. These fittings conform to the below specifications.

- Material: ASTM A 197
- Dimensions: AMSO B16.3
- Threads: ANSI B2.1 or BS21 ASME B1.20.1

Item ID	Pipe Size
74200	1/8
74201	1/4
74203	3/8
74204	1/2
74205	3/4
74206	1
74208	1-1/4
74209	1-1/2
74211	2

Reducing Coupling



Item ID	Pipe Size
74440	1/4 x 1/8
74441	3/8 x 1/8
74442	3/8 x 1/4
74443	1/2 x 1/8
74444	1/2 x 1/4
74445	1/2 x 3/8
74446	3/4 x 1/8
74447	3/4 x 1/4
74448	3/4 x 3/8
74449	3/4 x 1/2
74450	1 x 1/4
74451	1 x 3/8
74452	1 x 1/2
74453	1 x 3/4

Union



Item ID	Pipe Size
74420	1/8
74421	1/4
74422	3/8
74423	1/2
74424	3/4
74425	1
74426	1-1/4
74427	1-1/2
74428	2

Hex Bushing



**Steel fittings*

Item ID	Pipe Size
74225*	1/4 x 1/8
74226*	3/8 x 1/8
74227*	3/8 x 1/4
74228*	1/2 x 1/8
74229*	1/2 x 1/4
74230*	1/2 x 3/8
74231*	3/4 x 1/8
74232*	3/4 x 1/4
74233*	3/4 x 3/8
74234*	3/4 x 1/2
74240	1 x 3/8
74241	1 x 1/2
74242	1 x 3/4
74243	1-1/4 x 1/2
74244	1-1/4 x 3/4
74245	1-1/4 x 1
74246	1-1/2 x 1/2
74247	1-1/2 x 3/4
74248	1-1/2 x 1
74249	1-1/2 x 1-1/4
74250	2 x 3/4
74251	2 x 1
74252	2 x 1-1/4
74253	2 x 1-1/2

Black Pipe Fittings

Hex Pipe Cap- Steel



Item ID	Pipe Size
74320	1/8
74321	1/4
74322	3/8

Round Pipe Cap



Item ID	Pipe Size
74323	1/2
74324	3/4
74325	1
74326	1-1/4
74327	1-1/2
74328	2

Hex Recessed Plug- Steel



**Square drive*

Item ID	Pipe Size
74300	1/16
74301	1/8
74302	1/4
74303	3/8
74304	1/2
74305	3/4
74306	1
74307*	1-1/4
74308*	1-1/2
74309*	2

Square Head Plug



**Steel fittings*

Item ID	Pipe Size
74280*	1/8
74281*	1/4
74282*	3/8
74283*	1/2
74284*	3/4
74287	1
74288	1-1/4
74289	1-1/2
74290	2

Hex Head Plug- Steel



Item ID	Pipe Size
74260	1/8
74261	1/4
74262	3/8
74263	1/2
74264	3/4

Black Pipe Fittings

90 Deg Elbow



Item ID	Pipe Size
74350	1/8
74351	1/4
74352	3/8
74353	1/2
74354	3/4
74355	1
74356	1-1/4
74357	1-1/2
74358	2

45 Deg Street Elbow



Item ID	Pipe Size
74395	1/8
74396	1/4
74397	3/8
74398	1/2
74399	3/4
74400	1
74401	1-1/4
74402	1-1/2
74403	2

90 Deg Street Elbow



Item ID	Pipe Size
74365	1/8
74366	1/4
74367	3/8
74368	1/2
74369	3/4
74370	1
74371	1-1/4
74372	1-1/2
74373	2

Tee



Item ID	Pipe Size
74335	1/8
74336	1/4
74337	3/8
74338	1/2
74339	3/4
74340	1
74341	1-1/4
74342	1-1/2
74343	2

45 Deg Elbow



Item ID	Pipe Size
74380	1/8
74381	1/4
74382	3/8
74383	1/2
74384	3/4
74385	1
74386	1-1/4
74387	1-1/2
74388	2