

# FITTINGS

# Fittings

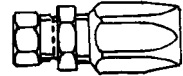
## Swivel Couplings, Female Pipe Thread

Part No.	Max WPR			Bulk Hose Size ID in.	Bulk Hose OD in.	Stud Thread No.	Stud Size	Compression Sleeve Material	Material
	psi	bar	MPa						
206-020	500	35	3.5	1/8	7/32	061-135	1/4 npsf	Brass*	Sleeveless
205-447	500	35	3.5	1/4	11/32	061-132	1/4 npsf	Brass*	Nylon
205-448	500	35	3.5	1/4	11/32	061-132	3/8 npsf	Brass*	Nylon
104-415	500	35	3.5	1/4	1/2	061-204	3/8 npsf	Brass*	Brass
104-084	500	35	3.5	1/4	1/2	061-204	3/8 npsm	Brass*	Brass
103-605	500	35	3.5	5/16	39/64	061-207	1/4 npsm	Brass*	Brass
205-439	500	35	3.5	3/8	1/2	061-134	3/8 npsm	Brass*	Nylon
104-414	500	35	3.5	3/8	11/16	061-195	3/8 npsm	Brass*	Brass

\* Zinc- or nickel-plated



206-020

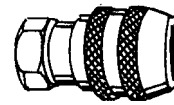


104-415

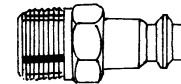
## Quick Coupler, Nipples (Pins)

Part No.	Max WPR			Item	Body Thread Size	Body Material
	psi	bar	MPa			
208-536	500	35	3.5	Coupler	1/4 npt(f)	Steel*
169-967	500	35	3.5	Pin	1/4 npt(f)	Steel*
169-969	500	35	3.5	Pin	1/8 npt(m)	Steel*
169-970	500	35	3.5	Pin	1/4 npt(m)	Steel*
169-971	500	35	3.5	Pin	3/8 npt(m)	Steel*

\* Zinc-plated



208-536



169-970

## Male to Female Adapters, Rigid

Part No	Max WPR			Male Thread	Female Thread	Length In. (cm)	Material	Internal Seat
	psi	bar	MPa					
150-171	5000	345	34.5	1/8 npt	1/8 npt	1 (2.5)	Steel*	None
160-805	5000	345	34.5	1/8 npt	1/8 npt	2 3/16 (5.7)	Steel **	None
162-753	5000	345	34.5	1/4 npt	1/4 npt	1 5/8 (3.8)	Brass*	30°
• 166-044	5000	345	34.5	3/4 npt	3/4 npt	3 (7.6)	SST	None

\* Zinc-plated

\*\* Gold enamel painted



150-171

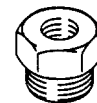
## Male to Female Increase Adapters, Rigid

Part No	Max WPR			Male Thread	Female Thread	Length In. (cm)	Material	Internal Seat
	psi	bar	MPa					
150-287	4000	276	27.6	1/4 npt	3/8 npt	1 5/8 (4.1)	Steel*	30°

## Adapter Bushings (Screw to Screw), Straight

Part No	Max WPR			Thread	Male Thread	Female Thread	Material
	psi	bar	MPa				
181-085	4000	276	27.6	7/8-14 unf	1 1/16-16 unf	1	Steel*

\* Nickel chrome-plated



181-085

• **Waterborne compatible**

## Couplings (Pipe to Pipe), Rigid

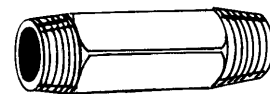
Part No.	Max WPR			Pipe Thread	Length (in.)	Across Flats (in.)	Material
	psi	bar	MPa				
100-451	150	10.4	1.04	1/8 npt	7/8	—	Steel*
100-175	150	10.4	1.04	1/4 npt	1 3/16	—	Steel*
113-093	150	10.4	1.04	1/4 npt	1 1/8	.69	Steel*
162-024	150	10.4	1.04	3/8 npt	1 1/8	.88	Steel*
158-581	4000	276	27.6	1/2 npt	1 1/4	1.00	Steel*
100-385	150	10.4	1.04	3/4 npt	1 3/8	—	Steel*
100-474	150	10.4	1.04	1 npt	2	—	Iron*

\* Zinc-plated

## Regular Nipples (Pipe to Pipe), Rigid

Part No.	Max WPR			Pipe Thread	Length (in.)	Material
	psi	bar	MPa			
100-628	2140	147	14.7	1/4 npt	2 1/8	Steel*
100-124	150	10.4	1.04	1/4 npt	2 1/2	Steel*
100-200	150	10.4	1.04	1/4 npt	6	Steel*
100-992	150	10.4	1.04	3/8 npt	2 1/2	Steel*
100-337	150	10.4	1.04	3/8 npt	2 3/4	Steel*
100-195	300	21	2.1	3/8 npt	4	Steel*
100-122	150	10.4	1.04	1/2 npt	1 1/8	Steel*
101-353	1280	86	8.6	1/2 npt	4	Steel*
100-627	150	10.4	1.04	3/4 npt	2	Steel*
101-407	150	10.4	1.04	3/4 npt	3	Steel*
100-485	150	10.4	1.04	1 npt	2	Steel*

\* Zinc-plated



100-628

## Hex Nipple (Pipe to Pipe), Rigid

Part No.	Max WPR			Thread P1	Thread P2	Length In. (cm)	Material	Sealing Angle
	psi	bar	MPa					
103-656	1000	70	7.0	1/8 npt	1/8 npt	29/32 (2.5)	Brass	None
162-453	7500	517	51.7	1/4 npt**	1/4 npsm	1 3/16 (3.1)	Steel	30°
156-971	7500	517	51.7	1/4 npt**	1/4 npt	1 3/8 (3.3)	Steel	30°
103-892	1200	82	8.2	1/4 npt	1/4 npsm	1 3/16 (3.1)	Brass*	None
* 162-485	7400	510	51.0	3/8 npt**	3/8 npsm	1 5/16 (3.2)	Steel	30°
* 156-849	6000	420	42.0	3/8 npt**	3/8 npt	1 1/2 (3.8)	Steel*	30°
* 158-491	6700	462	46.2	1/2 npt**	1/2 npt	1 5/8 (4.1)	Steel	30°
175-013	5000	345	34.5	3/4 npt*	3/4 npt**	2 1/2 (6.3)	Steel**	30°

\* Nickel-plated

\*\* Zinc-plated



103-656

## Hex Reducing Nipples (Pipe to Pipe), Rigid

Part No.	Max WPR			Thread P1	Thread P2	Length In. (cm)	Material	Sealing Angle
	psi	bar	MPa					
* 151-519	7500	517	51.7	¼ npt	⅛ npt	1 <sup>5</sup> / <sub>16</sub> (3.2)	Steel*	30°
* 157-350	7000	483	48.3	⅜ npt	¼ npt	1 <sup>5</sup> / <sub>16</sub> (3.2)	Steel*	30°
* 164-672	6000	420	42.0	⅜ npt	¼ npsm	1 <sup>5</sup> / <sub>16</sub> (3.2)	Steel*	30°
* 164-856	6000	420	42.0	⅜ npt	¼ npt	1 <sup>11</sup> / <sub>16</sub> (xx)	Steel*	30°
* 165-198	6000	420	42.0	⅜ npt	¼ npt	1 <sup>3</sup> / <sub>4</sub> (4.5)	Steel*	30°
162-449	5500	374	37.4	½ npt	¼ npt	1 <sup>5</sup> / <sub>8</sub> (4.1)	Steel*	30°
159-239	5500	374	37.4	½ npt	⅜ npt	1 <sup>5</sup> / <sub>8</sub> (4.1)	Steel*	30°
158-979	5500	374	37.4	½ npt	⅜ npt	2 <sup>3</sup> / <sub>4</sub> (7.0)	Steel*	30°
161-800	4000	276	27.6	¾ npt	⅜ npsm	1 <sup>3</sup> / <sub>4</sub> (4.5)	Steel*	30°
* 166-606	6000	420	42.0	¾ npt	⅜ npt	4 <sup>9</sup> / <sub>16</sub> (11)	Steel*	30°
157-191	5000	345	34.5	¾ npt	½ npt	1 <sup>7</sup> / <sub>8</sub> (4.6)	Steel*	30°
158-555	3000	207	20.7	1 npt	¾ npt	2 <sup>3</sup> / <sub>16</sub> (5.6)	Steel*	30°
* 166-846	6000	420	42.0	¼ npt	¼ npsm	1 <sup>3</sup> / <sub>16</sub> (3.1)	SST	30°
157-129	5000	345	34.5	¾ npt	¾ npt	3 <sup>1</sup> / <sub>4</sub> (8.2)	Steel*	30°

\* Zinc-plated

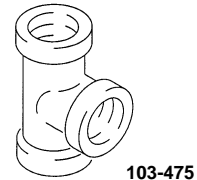
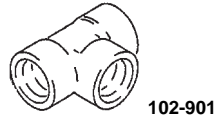
## Hex Reducing Couplings (Pipe to Pipe), Rigid

Part No.	Max WPR			Thread P1	Thread P2	Length In. (cm)	Material
	psi	bar	MPa				
161-490	3000	207	20.7	¾ npt	⅜ npt	1 <sup>1</sup> / <sub>2</sub> (3.8)	Steel*

## Pipe Tees (Female), Rigid

Part No.	Max WPR			Port Thread	Material
	psi	bar	MPa		
103-655	2500	172	17.2	⅛ npt(f)	Brass
100-547	2000	138	13.8	¼ npt(f)	Forged Steel*
104-984	5000	345	34.5	¼ npt(f)	Steel*
100-483	2000	138	13.8	⅜ npt(f)	Forged Steel*
102-901	1000	69	6.9	⅜ npt(f)	SST
101-846	2000	138	13.8	½ npt(f)	Malleable Iron
103-475	3000	207	20.7	½ npt(f)	Steel

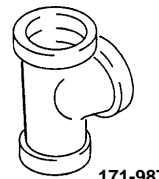
\* Zinc- or cadmium-plated



## Reducing Pipe Tees (Female), Rigid

Part No.	Max WPR			Run Threads	Branch Thread	Material
	psi	bar	MPa			
171-987	1500	104	10.4	⅜ x ¼ npt	⅜ npt	Iron*
104-972	150	10.4	10.4	½ npt	⅜ npt	Iron*

\* Zinc- or cadmium-plated



## Pipe Tees (Female Run-Male Branch), Rigid

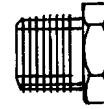
Part	Max WPR			Run Threads (in.)	Branch Thread (in.)	Material
	psi	bar	MPa			
* 164-815	6000	420	42.0	⅛ npt(f)	⅛ npt(f)	Steel*

\* Zinc-plated

## Pipe Reducer Bushings, Rigid

Part No.	Max WPR			Male Thread	Female Thread	Material
	psi	bar	MPa			
100-206	7500	517	51.7	½ npt	¼ npt	Steel
100-505	150	10.4	1.04	¾ npt	⅜ npt	SST
101-742	150	10.4	1.04	1 npt	⅜ npt	Iron*
* 101-496	6000	414	41.4	1½ npt	¾ npt	Steel*
102-000	150	10.4	1.04	1½ npt	1 npt	Iron
102-283	1000	70	7.0	2 npt	1 npt	Brass
100-081	5000	345	34.5	½ npt	⅜ npt	Steel*
100-896	4500	310	31.0	¾ npt	½ npt	Steel*
158-586	2500	172	17.2	1 npt	¾ npt	Steel*
158-212	4000	276	27.6	½ npt	⅜ npt	Steel*

\* Zinc-plated



## Slotted Headless Pipe Plug

Part No.	Max WPR			Pipe Thread	Material
	psi	bar	MPa		
103-219	7500	517	51.7	⅛ npt(m)	Brass*

\* Cadmium-plated



103-219

## Square Head Pipe Plugs

Part	Max WPR			Pipe Thread	Material
	psi	bar	MPa		
* 100-509	7500	517	51.7	¼ npt(m)	Iron
• * 100-040	7500	517	51.7	⅜ npt(m)	Steel
111-697	150	10.4	1.04	¼ npt(m)	SST
102-042	150	10.4	1.04	2 npt(m)	Iron*

\* Zinc-plated



100-509

## Socket Headless Pipe Plugs

Part	Max WPR			Pipe Thread	Material
	psi	bar	MPa		
* 101-754	7400	510	51.0	⅜ npt(m) SAE Short	Steel*
102-725	150	10.4	1.04	1¼ npt(m)	Iron*

\* Zinc- or cadmium-plated

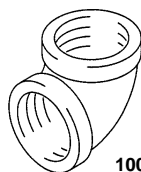


• Waterborne compatible

## 90° Pipe Elbows (Female)

Part No.	Max WPR			Pipe Thread	Material
	psi	bar	MPa		
100-349	150	10.4	1.04	¾ npt(f)	Iron*
• 102-325	150	10.4	1.04	¾ npt(f)	SST

\* Not a conventional elbow. Steel block with ports at 90°.



100-325

## 90° Street Pipe Elbows, Rigid

Part No.	Max WPR			Female Thread	Male Thread	Overall Length In. (cm)	Material
	psi	bar	MPa				
* 100-840	7500	517	51.7	¼ npt	¼ npt	1 11/32 (3.4)	Steel***
* 155-699	7400	510	51.0	⅜ npt	⅜ npt	1 3/16 (3.1)	Steel**
100-286	150	10.4	1.04	⅜ npt	⅜ npt	1 5/8 (4.1)	Iron**
100-549	150	10.4	1.04	¾ npt	¾ npt	2 5/8 (6.6)	Iron*
100-467	150	10.4	1.04	1 npt	1 npt	3 (7.6)	Iron**
101-552	150	10.4	1.04	1 ½ npt	1 ½ npt	3 15/16 (10)	Iron**
100-088	150	10.4	1.04	2 npt	2 npt	4 ¾ (12)	Iron**
* 160-701	6000	420	42.0	⅛ npt	⅛ npt	2 (5.1)	Steel**
158-683	4000	276	27.6	½ npt	½ npt	2 1/16 (5.2)	Steel**
166-242	4000	276	27.6	½ npt	½ npt	2 3/32 (5.3)	SST

\* Zinc-plated \*\* Chrome-plated \*\*\* Cadmium-plated



100-840



100-286

## 90° Reducing Street Pipe Elbows, Rigid

Part No.	Max WPR			Female Thread	Male Thread	Overall Length In. (cm)	Material	Internal Seat
	psi	bar	MPa					
* 164-259	6000	420	42.0	¼ npt	⅜ npt	1 3/8 (3.3)	Steel*	30°
* 166-699	6000	420	42.0	¼ npt	½ npt	1 5/8 (4.1)	Steel*	30°

\* Zinc-plated

## Pipe Unions with Swivel Nut

Part No.	Max WPR			Thread P1	Swivel Nut P2	Material
	psi	bar	MPa			
* 155-570	7500	517	51.7	¼ npt(f)	¼ npsm(f)	Steel*
* 159-153	7500	517	51.7	⅜ npt(f)	¼ npsm(f)	Steel*
* 156-173	7400	510	51.0	⅜ npt(f)	⅜ npsm(f)	Steel*
* 207-152	7000	483	48.3	⅜ npt(f)	⅜ npsm(f)	SST
161-077	3500	240	24.0	½ npt(f)	⅜ npsm(f)	Steel*
155-865	4000	420	42.0	½ npt(f)	½ npsm(f)	Steel*
156-172	5000	345	34.5	¾ npt(f)	¾ npsm(f)	Steel*
202-966	4000	420	42.0	¾ npt(f)	1 npsm(f)	Steel*
158-383	2000	138	13.8	1 npt(f)	1 npsm(f)	Steel*

\* Zinc-plated

## Male to Female Adapter Unions, Straight Swivel

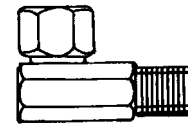
Part No.	Max WPR			Thread P1	Swivel Nut P2	Material
	psi	bar	MPa			
* 156-823	10,000	690	69.0	¼ npt(m)	¼ npsm(f)	Steel*
* 157-705	7500	517	51.7	¼ npt(m)	⅜ npsm(f)	Steel*
* 155-665	7500	517	51.7	⅜ npt(m)	⅜ npsm(f)	Steel*
160-022	3000	207	20.7	1 npt(m)	1 npsm(f)	Steel*
103-977	3000	207	20.7	1 npt(m)	1 npsm(f)	Passivated SST
* 236-987	7500	517	51.7	¼ npt(m)	¼ npsm(f)	Steel*
* 208-434	10,000	690	69.0	⅛ npt(m)	¼ npsm(f)	Steel*
* 162-505	7500	517	51.7	⅜ npt(m)	½ npsm(f)	Steel*
* 158-256	7500	517	51.7	½ npt(m)	⅜ npsm(f)	Steel*
157-785	3500	240	24.0	¾ npt(m)	¾ npsm(f)	Steel*
202-965	4000	276	27.6	1 npt(m)	¾ npsm(f)	Steel*

\* Zinc-plated

## Male to Female Adapter Unions, 90° Swivel

Part No.	Max WPR			Thread P1	Swivel Nut P2	Material
	psi	bar	MPa			
161-037	3500	240	24.0	½ npt(m)	⅜ npsm(f)	Steel*
160-327	2250	203	20.3	¾ npt(m)	¾ npsm(f)	Steel*
* 155-541	7000	483	48.3	¼ npt(m)	¼ npsm(f)	Steel*
* 155-495	7000	483	48.3	⅜ npt(m)	¼ npsm(f)	Steel*
155-494	5000	345	34.5	⅜ npt(m)	⅜ npsm(f)	Steel*
155-470	3000	207	20.7	⅜ npt(m)	½ npsm(f)	Steel*

\* Zinc-plated

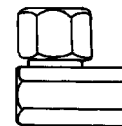


161-037

## Female Adapter Unions, 90° Swivel

Part No.	Max WPR			Thread P1	Swivel Nut P2	Material
	psi	bar	MPa			
155-677	4000	276	27.6	⅜ npt	⅜ npsm	Steel*
156-589	4000	276	27.6	¾ npt	¾ npsm	Steel*
* 157-676	6000	420	42.0	¼ npt	¼ npsm	Steel*
162-803	4000	276	27.6	¼ npt	⅝ npsm	Steel*
159-801	4000	276	27.6	⅜ npt	½ npsm	Steel*
157-416	4000	276	27.6	½ npt	½ npsm	Steel*
102-806	2000	138	13.8	1 npt(m)	1 npsm(f)	Steel*

\* Zinc-plated

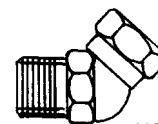


155-677  
155-676

## Male to Female Adapter Unions, 45° Swivel

Part No.	Max WPR			Thread P1	Swivel Nut P2	Material
	psi	bar	MPa			
105-281	5000	345	35.2	¾ npt(m)	¾ npsm(f)	Steel*
161-889	5500	379	37.9	⅜ npt(m)	⅜ npsm(f)	Steel*
* 161-356	6000	420	42.2	⅜ npt(m)	⅜ npsm(f)	Steel*

\* Zinc-plated



105-281

# Non-Rated Fittings

Note: Fittings on pages 88 through 93, inclusive, are not pressure rated.

## Male to Female Increase Adapters, Rigid

Part No.	Male Thread	Female Thread	Length In. (cm)	Material	Internal Seat
156-580	1/8 npt	3/8 npt	1 5/16 (3.2)	Steel	—
159-842	1/4 npt	1/2 npt	1 1/2 (3.8)	Steel*	30°
156-022	3/8 npt	1/2 npt	1 1/2 (3.8)	Steel*	30°
104-969	1/2 npt	3/4 npt	1 7/8 (4.6)	Steel*	30°
168-595	1/2 npt	3/4 npt	2 1/16 (6.2)	Steel*	—

\* Zinc-plated



156-580

## Adapter Bushings (Screw to Screw), Straight

Part No.	Thread	Male Thread	Female Thread	Material
166-036	1 1/8-18 unf	5/8-11 unc	1	SST



166-036

## Adapter Bushings (Screw to Pipe), Rigid

Part No.	Male Thread	Female Thread	Length In. (cm)	Material
160-059	3/8-24 unf	1/8 npt	2 7/16 (6.2)	Steel*
105-276	3/4-15 unf	1/4 npt	1 1/16 (2.7)	Steel* w/ Viton O-Ring
158-409	3/4-20 unef	3/8 npt	3 7/32 (8.4)	Steel*

\*Zinc-plated

## Hex Adapter Couplings (Pipe to Screw), Rigid

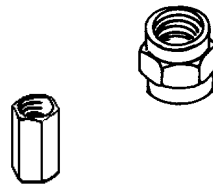
Part No.	Pipe Thread	Straight Thread	Length In. (cm)	Material
171-871	1/2 npt(f)	1/2-28 unef(f)	1 3/8 (3.5)	Steel*
168-688	1/2 npt(f)	1/2-27 uins(f)	1 3/4 (4.5)	Steel*

\*Zinc-plated

## Hex Reducer Couplings (Pipe to Pipe), Rigid

Part No	Thread P1	Thread P2	Length In. (cm)	Material
150-278	1/4 npt	1/8 npt	1 1/16 (2.7)	Steel*
100-083	3/8 npt	1/4 npt	1 1/8 (2.9)	Steel*
158-556	3/4 npt	1/2 npt	1 1/2 (3.8)	Steel*

\* Zinc-plated



158-556



100-083



161-490

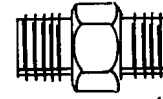
- Waterborne compatible



## Hex Reducing Nipples (Pipe to Pipe), Rigid

Part No.	Thread P1	Thread P2	Length In. (cm)	Material	Internal Seats
169-797	1/4 npsm	1/8 npt	3 <sup>1</sup> / <sub>32</sub> (2.5)	Steel*	30°
156-296	3/8 npt	1/8 npt	2 (5.1)	Steel*	30°
167-703	3/8 npt	1/4 npt	1 <sup>5</sup> / <sub>32</sub> (2.9)	Brass	30°
• 166-863	3/8 npt	1/4 npt	1 <sup>5</sup> / <sub>16</sub> (3.2)	SST	30°
160-704	3/8 npt	1/4 npt	3 (7.6)	Steel*	30°
• 166-443	3/4 npt	1/2 npt	1 <sup>3</sup> / <sub>4</sub> (4.5)	SST	30°
• 171-439	1 npt	3/4 npt	2 <sup>3</sup> / <sub>16</sub> (5.6)	SST	30°

\* Zinc-plated



169-797

## Hex Adapter Nipples (Pipe to Screw), Rigid

Part No.	Pipe Thread	Straight Thread	Length In. (cm)	Material	Sealing Angle
172-526	1/8 npt	3/8-14 unf	3 <sup>1</sup> / <sub>2</sub> (8.3)	Steel*	—
167-395	1/4 npsm	3/8-24 unf	1 <sup>3</sup> / <sub>16</sub> (1.9)	Steel**	30°
• 171-234	1/4 npsm	3/8-24 unf	1 <sup>3</sup> / <sub>16</sub> (1.9)	SST	30°
• 106-917	1/4 npsm	9/16-18 unf	1 <sup>1</sup> / <sub>4</sub> (3.2)	SST	30°
• 172-682	3/8 npsm	1/2-27 unf	2 <sup>3</sup> / <sub>32</sub> (1.9)	SST	30°
160-222	3/8 npsm	9/16-18 unf	1 <sup>1</sup> / <sub>2</sub> (3.8)	Brass***	30°
• 171-279	1 npt	1-12 unf	2 <sup>1</sup> / <sub>8</sub> (5.4)	SST	—

\* Nickel chrome-plated

\*\* Zinc-plated

\*\*\* Nickel-plated



172-526

## Hex Nipple (Pipe to Pipe), Rigid

Part No.	Thread P1	Thread P2	Length In. (cm)	Material	Sealing Angle
167-702	3/8 npt*	3/8 npt	1 <sup>3</sup> / <sub>16</sub> (3.1)	Brass*	30°
• 166-469	3/8 npt*	3/8 npt	1 <sup>1</sup> / <sub>2</sub> (3.8)	SST	30°
• 168-696	3/8 npt°	3/8 npt	2 (5.1)	SST	30°
• 166-244	1/2 npt°	1/2 npt	1 <sup>5</sup> / <sub>8</sub> (4.1)	SST	30°

\* Zinc-plated



162-453

- **Waterborne compatible**

## Pipe Tees (Female Run-Male Branch), Rigid

Part No.	Run Threads (in.)	Branch Thread (in.)	Material
164-814	1/4 npt(f)	3/8 npt(m)	Steel*
167-906	3/4 npt x 1/4 npt(f)	1 1/2 npt(m)	Steel*

\* Zinc-plated

\*\* Special work order



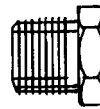
167-906

## Pipe Reducer Bushings, Rigid

Part No.	Male Thread	Female Thread	Material	Internal Seat
100-030	1/4 npt	1/8 npt	Steel*	30°
100-730	3/8 npt	1/8 npt	Steel	—
100-176	3/8 npt	1/4 npt	Steel	30°
159-841	3/8 npt	1/4 npt	Steel*	30°
• 168-160	3/8 npt	1/4 npt	SST	30°
100-329	1/2 npt	1/8 npt	Iron*	—
• 102-022	1/2 npt	1/4 npt	SST	—
100-081	1/2 npt	3/8 npt	Steel*	—
100-615	3/4 npt	1/4 npt	Steel*	—
100-896	3/4 npt	1/2 npt	Steel*	—
100-380	1 npt	1/2 npt	Steel**	—
158-586	1 npt	3/4 npt	Steel*	30°
101-865	2 npt	1 1/4 npt	Steel*	—
112-839	2 npt	1 npt	Iron*	—

\* Zinc-plated

\*\* Nickel- or cadmium-plated



100-030

## Square Head Pipe Plugs

Part	Pipe Thread (in.)	Material
100-403	1/8 npt(m)	Iron
104-813	3/8 npt(m)	Steel*
100-737	1/2 npt(m)	Steel
• 103-943	3/4 npt(m)	SST
104-663	3/4 npt(m)	Steel*
100-345	1 npt(m)	Iron
100-346	1 1/2 npt(m)	Iron

\* Zinc- or cadmium-plated



• **Waterborne compatible**

## Socket Headless Pipe Plugs

Part No.	Pipe Thread (in.)	Material
103-147	1/16 npt(m)	Steel
104-765	1/8 npt(m)	Steel**
100-721	1/4 npt(m) SAE Short	Steel*
• 101-970	1/4 npt(m) SAE Short	SST
100-361	1/2 npt(m) SAE Short	Iron
• 103-778	1/2 npt(m) SAE Short	SST
102-726	3/4 npt(m)	Steel*



104-765



101-754

\* Zinc- or cadmium-plated

\*\* Teflon coated

## 90° Adapter Elbow (with O-Ring Groove)

Part No..	Pipe Thread (in.)	Straight Universal Thread (in.)	Material
156-591	3/4 npt(f)	1 1/2 -24 uns(f)	Aluminum



156-591

## 90° Street Pipe Elbows, Rigid

Part No.	Female Thread	Male Thread	Overall Length In. (cm)	Material	Internal Seat
100-839	1/8 npt	1/8 npt	1 1/8 (2.9)	Steel**	None
103-893	1/4 npt	1/4 npt	1 3/16 (3.1)	Brass	None
• 166-866	1/4 npt	1/4 npt	1 11/32 (3.4)	SST	30°
100-119	1/2 npt	1/2 npt	2 1/4 (5.7)	Iron*	None
158-683	1/2 npt	1/2 npt	2 1/16 (5.2)	Steel*	None
166-590	3/4 npt	3/4 npt	2 1/2 (6.3)	Steel*	None
176-393	3/4 npt	3/4 npt	4 5/8 (11.8)	Steel*	30°
100-088	2 npt	2 npt	—	Iron*	None

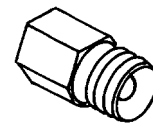
\* Chrome-plated

\*\* Cadmium-plated

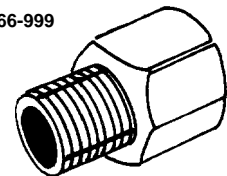
## 90° Reducing Street Pipe Elbows, Rigid

Part No.	Female Thread	Male Thread	Overall Length In. (cm)	Material	Internal Seat
158-962	1/4 npt	1/8 npt	1 1/2 (3.8)	Steel*	—
166-444	3/8 npt	1 npt	2 (5.1)	Brass*	—
100-611	3/4 npt	1/2 npt	2 5/8 (6.7)	Iron*	—

\* Zinc-plated



166-999



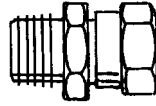
164-259

- **Waterborne compatible**

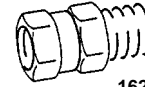
## Male to Female Adapter Unions, Straight Swivel

Part No.	Thread P1	Swivel Nut P2	Material
• 235-207	$\frac{3}{8}$ npt(m)	$\frac{3}{8}$ npsm(f)	SST

\* Zinc-plated



208-434

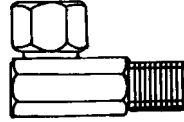


162-505

## Male to Female Adapter Unions, 90° Swivel

Part No.	Thread P1	Swivel Nut P2	Material
• 207-123	$\frac{3}{8}$ npt(m)	$\frac{3}{8}$ npsm(f)	SST
207-648	$\frac{3}{4}$ npt(m)	$\frac{3}{4}$ npsm(f)	Steel*

\* Zinc-plated

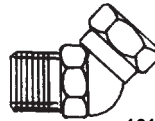


155-541

## Male to Female Adapter Unions, 45° Swivel

Part No.	Thread P1	Swivel Nut P2	Material
• 209-029	$\frac{3}{8}$ npt(m)	$\frac{3}{8}$ npsm(f)	SST

\* Zinc-plated



161-889