

Volume XI: Corzan[®] CPVC & Xirtec[™] 140 PVC

Industrial Technical
Manual Series

FIRST EDITION



**IPEX CORZAN[®] CPVC &
XIRTEC[™] 140 PVC**

Dimensional data and weights

Schedules 80 and 40 Corzan[®] CPVC & Xirtec[™] 140 PVC Fittings

Dimensional Data and Weights

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About IPEX

At IPEX, we have been manufacturing non-metallic pipe and fittings since 1951. We formulate most of our compounds and maintain strict quality controls during production. Our products are then made available for distribution thanks to a network of regional stocking locations throughout North America. We offer a wide variety of systems including complete lines of piping, fittings, valves and custom-fabricated items.

More importantly, our commitment to our customers extends well beyond the sales function. As a leader in the plastic piping industry, IPEX continually develops new products, modernizes manufacturing facilities, and acquires innovative process technology. In addition, our staff takes pride in their work, making available to customers their extensive thermoplastic knowledge and field experience. For specific details about any IPEX product, contact our customer service department (contact information is listed on the back cover).

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General Recommendations

Handling

Compared to steel, iron or copper pipe, Xirtec140 PVC and Corzan CPVC pipe and fittings have a lower impact resistance (especially at low temperatures). Care should be exercised during transportation and installation of Xirtec140 PVC and Corzan CPVC. Systems installed in high impact areas should be protected accordingly.

Solvent Cement Welding

This method of joining is very simple and reliable if it is followed correctly, but any deviations from the recommended basic steps may reduce the strength and integrity of the joint. The procedures for preparation, insertion, and curing should be followed very carefully.

Expansion and Contraction

The coefficient of linear expansion of Xirtec140 PVC and Corzan CPVC pipe is greater than that of metallic piping; therefore, take this factor into consideration when designing and installing a Xirtec140 PVC or Corzan CPVC piping system.

Hanging and Supporting

The modulus of elasticity of Xirtec140 PVC and Corzan CPVC pipe is smaller than it is for metal pipes. Maximum working temperature and room temperature should be considered when determining the required support spacing.

Trench Preparation

When laying Xirtec140 PVC and Corzan CPVC piping systems below the ground, care should be taken to remove all rocks, boards, empty primer and cement cans, brushes, bottles and other debris from the trench. Smaller diameters of pipe should be “snaked” in the trench to allow for expansion and contraction. If solvent cement welding is used for the method of joining, snaking, pressure testing, and pipe movement should not be done until after the joints have been given sufficient time to cure.

Temperature/Pressure

The working pressure of Xirtec140 PVC and Corzan CPVC pipe and fittings varies with changes in temperature. Before putting a piping system into service, the maximum working temperature and the maximum working pressure should be verified.

Xirtec140 PVC and Corzan CPVC for Non-Liquid Transport

The manufacturer does not recommend its Xirtec140 PVC or Corzan CPVC products for use in air or compressed gas systems. Xirtec140 PVC and Corzan CPVC pipe, fittings and valves are excellent products for the transport of water and corrosive chemicals, but there are a number of other piping products that are especially designed and suited for compressed air and gases.

Testing

Never use air or gas for pressure testing Xirtec140 PVC or Corzan CPVC piping systems. Before hydro-testing a system, flush out all entrapped air.



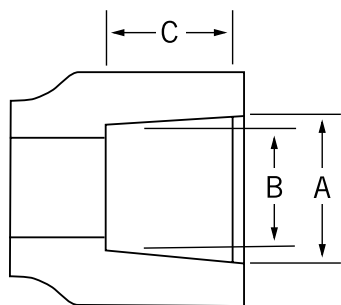
WARNING



- NEVER use compressed air or gas in rigid PVC/CPVC/PP/PVDF pipe and fittings.
- NEVER test rigid PVC/CPVC/PP/PVDF pipe and fittings with compressed air or gas, or air-over-water boosters.
- ONLY use rigid PVC/CPVC/PP/PVDF pipe for water and approved chemicals.

Use of compressed air or gas in rigid PVC/CPVC/PP/PVDF pipe and fittings can result in explosive failures and cause severe injury or death.

WEIGHTS AND DIMENSIONS

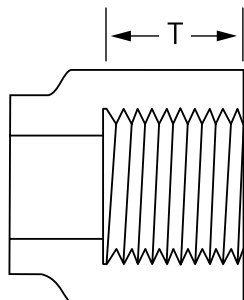


XIRTEC140 PVC AND CORZAN CPVC
SCHEDULE 80 TAPER SOCKET
DIMENSIONS

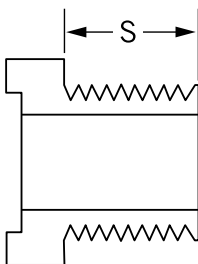
(SOLVENT CEMENT STYLE)

ASTM D-2467 (PVC)/F-439 (CPVC)

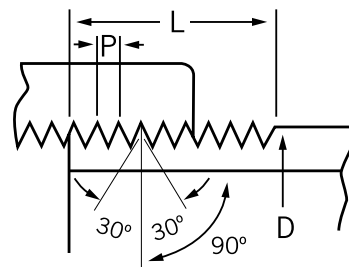
Nom. Pipe Size	Pipe O.D.	Socket Entrance I.D. (A)		Socket Bottom I.D. (B)		Min. Socket Length (C)
		Min.	Max.	Min.	Max.	
1/2	0.840	0.844	0.852	0.8322	0.840	0.875
3/4	1.050	1.054	1.062	1.042	1.050	1.000
1	1.315	1.320	1.330	1.305	1.315	1.125
1 1/4	1.660	1.665	1.675	1.650	1.660	1.250
1 1/2	1.900	1.906	1.9118	1.888	1.900	1.375
2	2.375	2.381	2.393	2.363	2.375	1.500
2 1/2	2.875	2.882	2.896	2.861	2.875	1.750
3	3.500	3.508	3.524	3.484	3.500	1.972
4	4.500	4.509	4.527	4.482	4.500	2.250
6	6.625	6.636	6.658	6.603	6.625	3.000
8	8.625	8.640	8.670	8.595	8.625	4.000



FEMALE TAPER THREADS
ASTM D-2464 (PVC)/F-437 (CPVC)
ASTM F-1498



MALE TAPER THREADS
ASTM D-2464 (PVC)/F-437 (CPVC)
ASTM F-1498



AMERICAN NATIONAL STANDARD
TAPER PIPE THREADS (NPT)
ASME (ANSI) B1.20.1
ASTM F-1498

Nom. Pipe Size	Pipe O.D. (D)	Female Thrd Min. Length (T)	Male Thrd Min. Length (S)	Overall Pipe Thread	Length (L) Pitch of Thread (P)	Threads Per Inch	Height of Thread
1/2	0.840	0.64	0.53	0.7815	.07143	14	.05714
3/4	1.050	0.65	0.55	0.7935	.07143	14	.05714
1	1.315	0.81	0.68	0.9845	.08696	11.5	.06957
1 1/4	1.660	0.85	0.71	1.0085	.08696	11.5	.06957
1 1/2	1.900	0.85	0.72	1.0252	.08696	11.5	.09657
2	2.375	0.90	0.76	1.0582	.08696	11.5	.09657
2 1/2	2.875	1.21	1.14	1.5712	.12500	8	.100
3	3.500	1.0	1.20	1.6337	.12500	8	.100
4	4.500	1.38	1.30	1.7337	.12500	8	.100

MANUFACTURER'S PRODUCT SPECIFICATION

Scope

This specification sheet covers the manufacturer's requirements for Xirtec140 PVC Schedule 80 pipe fittings as manufactured by IPEX. These fittings meet or exceed the standards set by the American Society for Testing and Materials and NSF International, Standards 14/61.

All fittings and raw materials are manufactured in the USA.

PVC Materials

Rigid Xirtec140 PVC (polyvinyl chloride) used in the manufacture of Schedule 80 fittings is of Type I, Grade 1 compound as stated in ASTM D-1784. Raw material used in molding shall contain the specified amounts of color pigment, stabilizers, and other additives approved by NSF International.

Dimensions

Physical dimensions and tolerances of Xirtec140 PVC Schedule 80 IPS fittings as manufactured by IPEX, meet the requirements of ASTM standard specification D-2467 for socket-type fittings and ASTM D-2464 for threaded fittings. Threaded fittings have Taper Pipe Threads in accordance with ANSI/ASME B1.20.1.

Marking

Xirtec140 PVC Schedule 80 fittings are marked as prescribed in ASTM D-2464 and D-2467 to indicate the manufacturer's name and trademark, material designation, the NSF mark, size of fitting, and ASTM designation D-2464 (threaded) or D-2467 (socket).

Sample Specification

All Schedule 80 Socket fittings shall conform to ASTM D-2467 and ASTM D-2464 for threaded fittings. Both pipe and fittings shall be the product of one manufacturer, as manufactured by IPEX or approved equal.

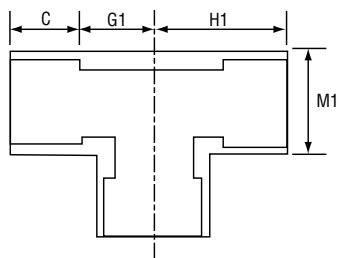
Notes

All dimensions are in inches unless otherwise specified. Dimensions are subject to change without notice. Contact factory for certification.

ASTM
MEMBER



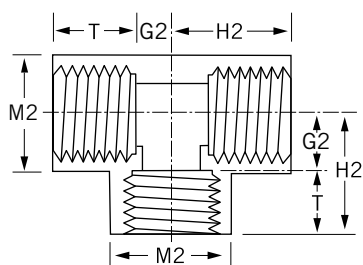
TEES



S x S x S
TEE

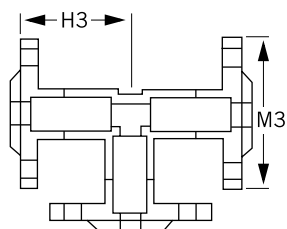
Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x S x S - TEE			Approx. Wt. (lb)
			C	H1	G1	
1/2	1.2	8011005	0.93	1.445	0.515	0.11
3/4	1.4	8011007	1.060	1.685	0.625	0.16
1	1.7	8011010	1.19	1.94	0.75	0.255
1 1/4	2.128	8011012	1.27	2.157	0.887	0.4
1 1/2	2.393	8011015	1.395	2.412	1.017	0.525
2	2.913	8011020	1.521	2.8	1.279	0.885
2 1/2	3.513	8011025	1.775	3.282	1.517	1.425
3	4.2	8011030	1.93	3.879	1.949	2.31
4	5.2	8011040	2.305	4.725	2.420	3.745
6	7.562	8011060	3.03	6.531	3.501	9.745
8	9.815	8011080	4.128	8.625	4.497	18.48
10	12.0		5.500	11.248	5.748	
12	14.2		6.500	13.386	6.886	

TEES



T x T x T
TEE

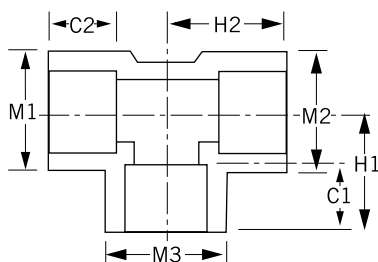
Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	T x T x T - TEE			Approx. Wt. (lb)
			T	H2	G2	
1/2	1.295	805005	0.905	1.137	0.232	0.143
3/4	1.514	805007	1.02	1.604	0.584	0.215
1	1.819	805010	1.17	1.815	0.645	0.375
1 1/4	2.219	805012	1.002	1.883	0.881	0.42
1 1/2	2.508	805015	0.985	2.053	1.068	0.59
2	3.042	805020	1.04	2.37	1.33	0.825
2 1/2	3.622	805025	1.45	2.966	1.516	1.47
3	4.31	805030	1.426	3.18	1.754	2.06
4	5.418	805040	1.515	3.718	2.203	3.27
6	—	—	—	—	—	—
8	—	—	—	—	—	—



FLG x FLG x FLG
TEE

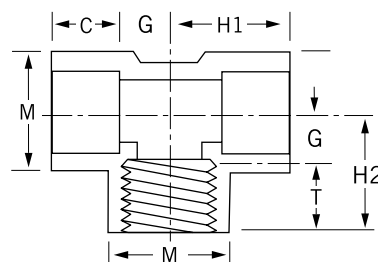
Nom. Pipe Size	Max O.D. Dim M3	Univ. Part No.	FLG x FLG x FLG - TEE		Approx. Wt. (lb)
			H3		
1/2	—	—	—		—
3/4	—	—	—		—
1	4.25	—	3.156		1.5
1 1/4	4.62	—	3.255		2.284
1 1/2	5	—	4.141		2.244
2	6	—	4.547		3.79
2 1/2	7	—	5.344		5.73
3	7.5	—	5.047		7.83
4	9	—	6.063		15.61
6	11	—	8.063		28.543
8	13.5	—	10.297		55.207

REDUCING TEES



S x S x S
REDUCING TEE

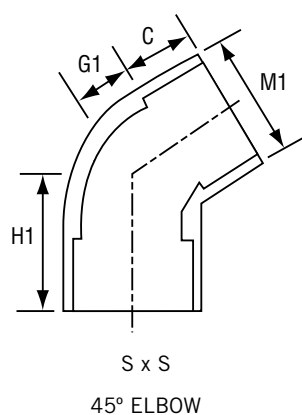
Nom. Pipe Size		Max O.D. Dim		Univ. Part No.	S x S x S - REDUCING TEE					Approx. Wt. (lb)
					C1	C2	H1	H2	G	
M1	M2	M3								
¾ x ¾ x ¾	1.423	1.423	1.208	801101	0.889	1.032	1.465	1.665	0.611	0.155
1 x 1 x ¾	1.736	1.736	1.415	801131	1.025	1.153	1.734	1.932	0.725	0.235
1½ x 1½ x 1	2.395	2.395	1.765	801211	1.148	1.41	2.177	2.304	1.102	0.465
2 x 2 x 1	2.882	2.882	1.765	801249	1.148	1.537	2.445	2.409	1.292	0.59
2 x 2 x 1½	2.885	2.885	2.4	801251	1.401	1.537	2.669	2.75	1.24	0.72
3 x 3 x 2	4	4	2.74	801338	1.53	1.9	3.375	3.469	1.755	1.19
4 x 4 x 3	5.25	5.25	4.17	801422	1.901	2.273	4.23	4.5	2.289	3.1
6 x 6 x 4	7.598	7.598	5.27	801532	2.238	3.028	5.75	5.812	3.762	7.57
8 x 8 x 6	9.75	9.75	7.594	801585	3.125	4.126	7.625	7.718	4.531	15.76



S x S x T
REDUCING TEE

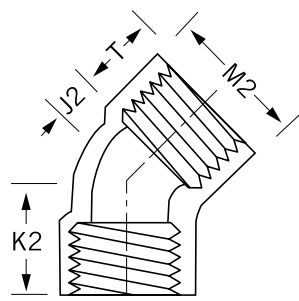
Nom. Pipe Size	Max O.D. Dim M	Univ. Part No.	S x S x T - REDUCING TEE					Approx. Wt. (lb)
			T	C	H1	H2	G	
$\frac{1}{2}$	1.284	802005	0.903	0.906	1.375	1.375	0.472	0.14
$\frac{3}{4}$	1.502	802007	1.031	1.028	1.615	1.615	0.584	0.2
1	1.81	802010	1.152	1.15	1.816	1.816	0.664	0.3

45° ELBOWS



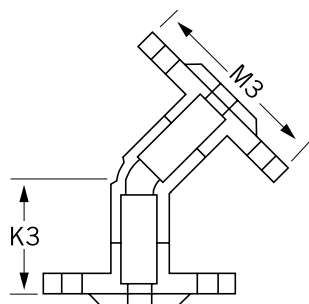
Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x S - 45° ELBOW			Approx. Wt. (lb)
			H1	C	G1	
1/2	1.163	817005	1.2	0.888	0.312	0.065
3/4	1.413	817007	1.352	1.02	0.332	0.1
1	1.732	817010	1.475	1.148	0.327	0.145
1 1/4	2.08	817012	1.66	1.1266	0.394	0.22
1 1/2	2.337	817015	1.79	1.386	0.404	0.29
2	2.845	817020	2	1.504	0.496	0.415
2 1/2	3.534	817025	2.48	1.758	0.722	0.855
3	4.15	817030	2.702	1.885	0.817	1.14
4	5.235	817040	3.095	2.26	0.835	1.985
6	7.65	817060	4.577	3.03	1.547	5.855
8	9.75	817080	6.25	4.041	2.209	10.64
10	12.0		8.110	5.500	2.610	
12	14.2		9.579	6.500	3.079	

45° ELBOWS



T x T
45° ELBOW

Nom. Pipe Size	Max O.D. Dim M2	Univ. Part No.	T x T - 45° ELBOW			Approx. Wt. (lb)
			K2	T	J2	
1/2	1.325	819005	0.995	0.676	0.319	0.08
3/4	1.526	819007	1.193	0.674	0.519	0.115
1	1.819	819010	1.38	0.847	0.533	0.16
1 1/4	12.214	819012	1.619	0.894	0.725	0.25
1 1/2	12.515	819015	1.812	0.895	0.917	0.345
2	3.025	819020	2.06	0.913	1.147	0.47
2 1/2	3.607	819025	2.664	1.454	1.21	0.885
3	4.345	891030	2.91	1.542	1.435	1.245
4	5.435	819040	3.596	1.6	1.839	2.265
6	—	—	—	—	—	—
8	—	—	—	—	—	—

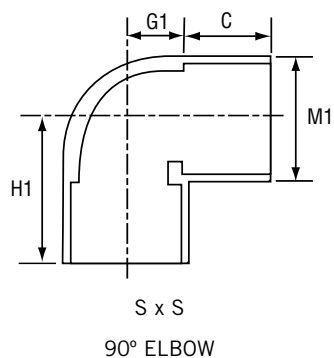


FLG x FLG*
45° ELBOW

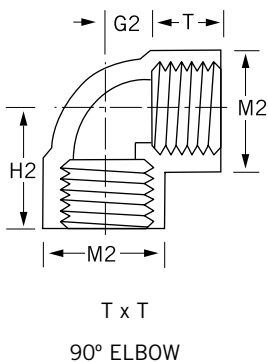
* Not molded as a one-piece part,
flanges are cemented into tee.

Nom. Pipe Size	Max O.D. Dim M3	Univ. Part No.	FLG x FLG - 45° ELBOW		Approx. Wt. (lb)
			K3		
1/2	—	—	—		—
3/4	—	—	—		—
1	4.25	—	2.844		1.04
1 1/4	4.62	—	3.188		1.516
1 1/2	5	—	3.5		1.81
2	6	—	3.938		2.5
2 1/2	7	—	4.563		6.18
3	7.5	—	4.094		5.07
4	9	—	5.031		10.2
6	11	—	6.281		21.379
8	13.5	—	8.047		39.8

90° ELBOWS

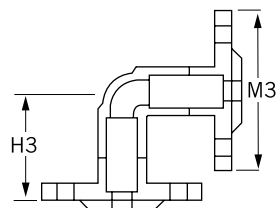


Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x S - 90° ELBOW			Approx. Wt. (lb)
			C	H1	G1	
1/2	1.1	806005	0.890	1.445	0.555	0.08
3/4	1.4	806007	1.020	1.685	0.665	0.115
1	1.7	806010	1.145	1.940	0.795	0.19
1 1/4	2.118	806012	1.27	2.159	0.889	0.29
1 1/2	2.238	806015	1.398	2.399	1.001	0.38
2	2.914	806020	1.526	2.803	1.277	0.63
2 1/2	3.538	806025	1.776	3.299	1.523	1.07
3	4.195	806030	1.936	3.747	1.811	1.515
4	5.375	806040	2.266	4.625	2.359	2.56
6	7.575	806060	3.026	6.65	3.624	7.495
8	9.8	806080	4.125	8.6	4.475	14.78
10	12.0		5.500	11.248	5.748	
12	14.2		6.500	13.386	6.886	



Nom. Pipe Size	Max O.D. Dim M2	Univ. Part No.	T x T - 90° ELBOW			Approx. Wt. (lb)
			T	H2	G2	
1/2	1.292	808005	0.906	1.37	0.46	0.11
3/4	1.51	808007	1.032	1.615	0.583	0.155
1	1.82	808010	1.16	1.81	0.65	0.23
1 1/4	2.218	808012	0.994	1.794	0.8	0.31
1 1/2	2.51	808015	0.984	2.041	1.057	0.41
2	3.06	808020	1.06	2.37	1.31	0.625
2 1/2	3.63	808025	1.452	2.935	1.483	1.12
3	4.3	808030	1.124	3.158	1.734	1.55
4	5.44	808040	1.51	3.736	2.226	2.59
6	—	—	—	—	—	—
8	—	—	—	—	—	—

90° ELBOWS

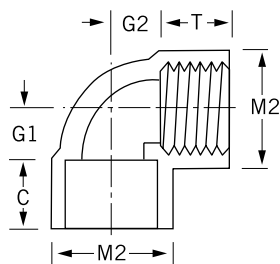


FLG x FLG*

90° ELBOW

* Not molded as a one-piece part, flanges are cemented into tee.

Nom. Pipe Size	Max O.D. Dim M3	FLG x FLG* - 90° ELBOW		
		Univ. Part No.	H3	Approx. Wt. (lb)
1/2	—	—	—	—
3/4	—	—	—	—
1	4.25	—	3.188	1.03
1 1/4	4.62	—	3.75	1.66
1 1/2	5	—	4.109	1.69
2	6	—	4.531	3.35
2 1/2	7	—	5.313	5.182
3	7.5	—	5	6.14
4	9	—	6.016	10.71
6	11	—	8.313	20.528
8	13.5	—	10.422	37.25

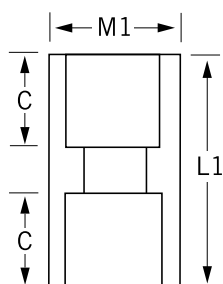


S x T

90° ELBOW

Nom. Pipe Size	Max O.D. Dim M2	Univ. Part No.	S x T - 90° ELBOW				Approx. Wt. (lb)
			T	C	G1	G2	
1/2	1.197	807005	0.903	0.896	0.541	0.534	0.085
3/4	1.503	807007	1.035	1.015	0.61	0.59	0.145
1	1.74	807010	1.151	1.153	0.784	0.786	0.205
1 1/4	2.09	807012	1.275	1.274	0.976	0.976	0.3
1 1/2	2.335	807015	1.401	1.042	1.042	1.036	0.37

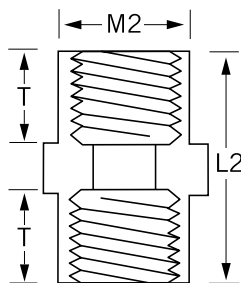
COUPLINGS



S x S
COUPLING

* Fabricated parts made from
Schedule 80 Pipe

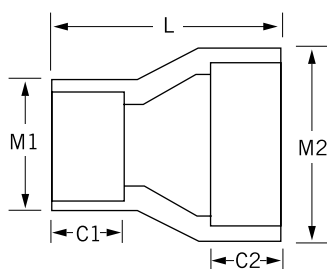
Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x S - COUPLING		Approx. Wt. (lb)
			L1	C	
1/2	1.19	829005	1.919	0.899	0.55
3/4	1.4	829007	2.172	1.035	0.75
1	1.75	829010	2.395	1.145	0.13
1 1/4	2.11	829012	2.672	1.28	0.17
1 1/2	2.369	829015	2.914	1.4	0.2
2	2.846	829020	3.17	1.537	0.315
2 1/2	3.516	829025	3.755	1.781	0.62
3	4.158	829030	4.027	1.901	0.86
4	5.235	829040	4.764	2.276	1.435
6	7.81	829060	6.312	3.02	3.545
8	10.031	829080	9.625	4.542	7.6
10*	11.937	829100	14.562	5.75	16.915
12*	14.031	829120	16.687	6.312	26
14*	15.562	829140	19.437	8.062	36



T x T
COUPLING

Nom. Pipe Size	Max O.D. Dim M2	Univ. Part No.	T x T - COUPLING		Approx. Wt. (lb)
			L2	T	
1/2	1.308	803005	1.604	0.753	0.075
3/4	1.529	830007	1.621	0.752	0.09
1	1.84	930010	2.01	0.94	0.15
1 1/4	2.215	830012	2.21	1.055	0.215
1 1/2	2.519	830015	2.227	1.065	0.265
2	3.024	830020	2.501	1.2	0.395
2 1/2	3.62	830025	3.127	1.46	0.7
3	4.313	830030	3.188	1.531	0.965
4	5.454	830040	3.406	1.585	1.465

REDUCING COUPLINGS

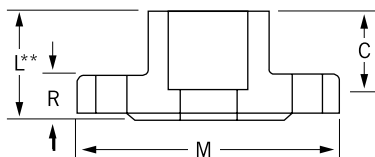


S x S
REDUCING COUPLING

* Consult factory for dimensions - all sizes.

Nom. Pipe Size*	Univ. Part No.	S x S - REDUCING COUPLING					Approx. Wt. (lb)
		M1	M2	C1	C2	L	
3/4 x 1/2	829101	1.169	1.455	0.907	1.038	2.082	0.075
1 x 1/2	920130	1.17	1.712	0.909	1.163	2.379	0.1
1 x 3/4	829131	1.456	1.714	1.034	1.164	2.385	0.11
1 1/4 x 1	829168	1.707	2.079	1.154	1.282	2.66	0.155
1 1/2 x 1	829211	1.712	2.342	1.158	1.415	3.058	0.205
1 1/2 x 1 1/4	829212	2.08	2.342	1.282	1.41	3.05	0.225
2 x 1	829249	1.707	2.848	1.158	1.545	3.53	0.28
2 x 1 1/2	829251	2.337	2.848	1.41	1.54	3.515	0.325
3 x 2	829338	2.856	4.154	1.537	1.912	4.202	0.725
4 x 2	829420	2.856	5.25	1.538	2.29	5.111	1.285
4 x 3	829422	4.143	5.235	1.906	2.288	5.105	1.36
6 x 4	829532	5.24	7.562	2.291	3.032	6.742	3.21

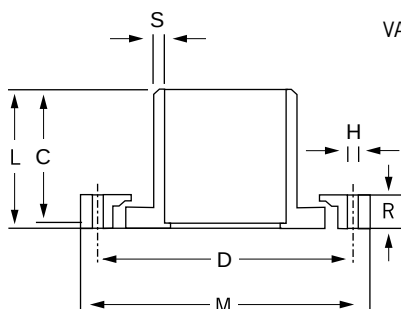
SOCKET FLANGES - 150 LB



ONE PIECE FLANGE

Nom. Pipe Size	Max. O.D. Dim. M	Univ. Part No.	Dimensions - ONE PIECE FLANGE			No. Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter	Approx. Wt. (lb)
			L**	C*	R				
1/2	3.5	891005	1.092	0.915	0.472	4	0.63	2.375	0.19
3/4	3.88	851007	1.227	1.014	0.525	4	0.63	2.75	0.26
1	4.25	851010	1.347	1.136	0.586	4	0.628	3.125	0.355
1 1/4	4.62	851012	1.466	1.256	0.648	4	0.62	3.5	0.455
1 1/2	5	851015	1.584	1.383	0.729	4	0.624	3.875	0.58
2	6	851020	1.757	1.523	0.82	4	0.745	4.75	0.895
2 1/2	7	851025	1.958	1.745	0.9	4	0.745	5.5	1.37

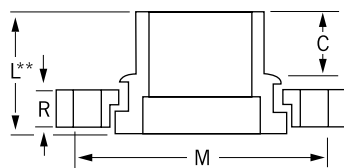
SOCKET FLANGES - 150 LB



VAN STONE STYLE FLANGE - VS

Nom. Pipe Size	Max. O.D. Dim. M	Univ. Part No.	Dimensions - VS			No. Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter	Approx. Wt. (lb)
			L**	C*	R				
1½	5	854015	1.812	1.41	0.998	4	0.618	3.869	0.61
2	6	854020	2.01	1.525	1.137	4	0.744	4.738	1.01
3	7.5	854030	2.066	1.888	0.894	4	0.7	6	1.585
4	9	854040	2.534	2.293	1.09	8	0.76	7.5	2.595
6	11	854060	3.2	3.024	1.22	8	0.9	9.5	3.97
8	13.5	854080	4.326	4.016	1.5	8	0.895	11.75	7.62
10	16.000	854100	5.375	5.000	1.690	12	1.025	14.25	12.225
12	19.000	854120	6.500	6.000	1.690	12	1.028	17.000	18.645

Sch 80 Xirtec 140
PVC FITTINGS



VAN STONE STYLE SPIGOT FLANGE - VS - SPG

Nom. Pipe Size	Max. O.D. Dim. M	Univ. Part No.	Dimensions - VS - SPG			No. Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter	Approx. Wt. (lb)
			L**	C*	R				
3	7.5	856030	3.12	1.88	0.9	4	0.75	6	1.87
4	9	856040	3.66	2.29	1.11	8	0.75	7.5	2.995
6	11	856060	4.46	3.01	1.22	8	0.875	9.5	5.01
8	13.5	856080	5.25	4.014	1.504	8	0.875	11.75	9.36

** Includes seal ring height (length over-all)

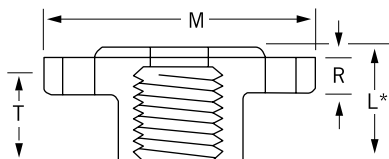
* C dimension is socket depth or spigot length.

Flange rings are manufactured from a PVC composite material.

Flanges meet ASTM F-1970.

Flange bolt hole patterns meet ANSI B16.5.

THREADED FLANGES - 150 LB

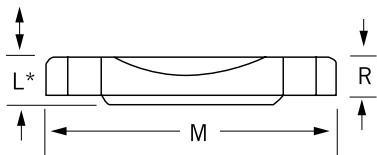


ONE PIECE FLANGE - THREADED

* Includes seal ring height.

Nom. Pipe Size	Max. O.D. Dim. M	Univ. Part No.	Dimensions - THREADED			No. Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter	Approx. Wt. (lb)
			L*	T	R				
1/2	3.5	8852005	1.01	0.807	0.47	4	0.638	2.375	0.205
3/4	3.88	852007	1.01	0.81	0.523	4	0.643	2.75	0.26
1	4.25	852010	1.173	0.974	0.588	4	0.637	3.125	0.365
1 1/4	4.62	852012	1.214	1.012	0.653	4	0.624	3.5	0.465
1 1/2	5	852015	1.19	0.988	0.735	4	0.623	3.875	0.575
2	6	852020	1.25	1.033	0.808	4	0.748	4.75	0.88
2 1/2	7	852025	1.584	1.357	0.9	4	0.749	5.5	1.325
3	7.5	852030	1.7	1.46	0.9	4	0.757	6	1.56
4	9	852040	1.8	1.56	1.095	8	0.757	7.5	22.535

BLIND FLANGES - 150 LB



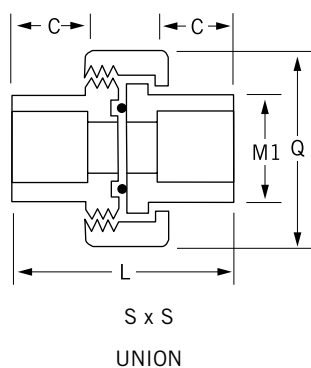
ONE PIECE FLANGE - BLIND

Nom. Pipe Size	Max. O.D. Dim. M	Univ. Part No.	Dimensions - BLIND		No. Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter	Approx. Wt. (lb)
			L*	R				
1/2	3.5	853005	0.518	0.47	4	0.63	2.382	0.19
3/4	3.88	852007	0.592	0.527	4	0.642	2.765	0.27
1	4.25	853010	0.635	0.59	4	0.645	3.124	0.3
1 1/4	4.62	852012	0.718	0.662	4	0.627	3.505	0.45
1 1/2	5	853015	0.818	0.747	4	0.624	3.894	0.555
2	6	853020	0.885	0.85	4	0.75	4.763	0.895
2 1/2	7	853025	0.96	0.902	4	0.742	5.501	1.3
3	7.5	853030	0.9558	0.906	4	0.786	6.014	1.54
4	9	853040	1.148	1.104	8	0.786	7.513	2.675
6	11	853060	1.268	1.22	8	0.915	9.503	4.28
8	13.5	853080	1.561	1.501	8	0.911	11.754	6.941

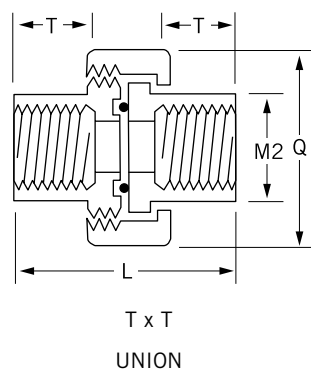
Flanges meet ASTM F-1970.

Flange bolt hole patterns meet ANSI B16.5.

UNIONS (O-RING SEAT)



Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x S - UNION			Approx. Wt. (lb)
			L	C	Q	
1/2	1.212	897005	2.303	0.897	1.986	0.155
3/4	1.452	897007	2.59	1.012	2.37	0.235
1	1.765	897010	2.89	1.148	2.68	0.335
1 1/4	2.155	897012	3.385	1.269	3.096	0.465
1 1/2	2.458	897015	3.84	1.383	3.835	0.83
2	2.93	897020	4.152	1.512	4.805	1.34
3	4.212	897030	4.972	1.892	6.922	3.845



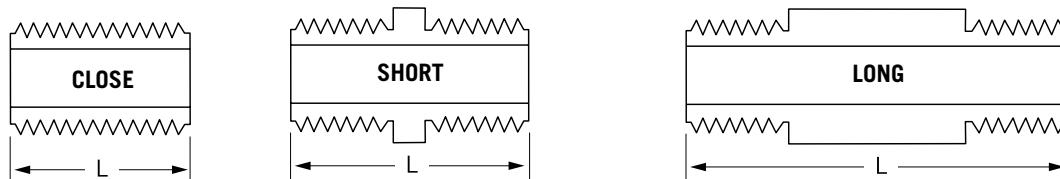
Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x S - UNION			Approx. Wt. (lb)
			L	C	Q	
1/2	1.202	898005	2.129	0.808	1.975	0.155
3/4	1.392	898007	2.18	0.825	2.361	0.21
1	1.745	898010	2.645	1.018	2.675	0.3
1 1/4	2.17	898012	3.127	1.156	3.1	0.49
1 1/2	2.501	898015	3.585	1.27	3.828	0.855
2	2.988	898020	3.89	1.38	4.804	1.385
3	4.305	898030	4.276	1.556	6.945	3.945

Unions meet ASTM F-1970.

EDPM O-rings are standard. Viton®** available upon request.

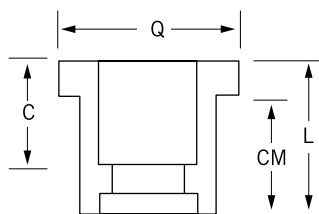
*Viton® is a registered trademark of DuPont Dow Elastomers.

NIPPLES



Nom. Pipe Size	CLOSE		SHORT		3" LONG	4" LONG	5" LONG	6" LONG	8" LONG	10" LONG	12" LONG
	Univ. Part No.	L	Univ. Part No.	L	Univ. Part No.	Univ. Part No.	Univ. Part No.	Univ. Part No.	Univ. Part No.	Univ. Part No.	Univ. Part No.
1/2	861077	1.25	861079	1.5	861081	861082	861083	861084	861086	861987	861088
3/4	861104	1.375	861105	2	861106	861107	861108	861109	861110	861111	861112
1	861133	1.5	861134	2	861135	861136	861137	861138	86119	861140	861141
1 1/4	861170	1.625	861171	2.5	861172	861173	861174	861175	861176	861177	861178
1 1/2	861213	1.75	861214	2.5	861215	861216	861217	861218	861220	861220	861221
2	861251	2	861252	2.5	861253	861254	861255	861256	861258	861258	861259
2 1/2	861291	2.5	861292	3	—	861295	861296	861297	861299	861299	861300
3	861338	2.625	861340	3	—	861391	861342	861343	861345	861345	861346
4	861422	2.75	861423	4	—	—	861425	861426	861428	861428	861429

REDUCING BUSHINGS



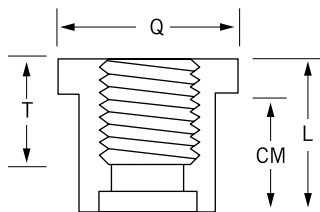
S x S

REDUCING BUSHING

* Loose Bushed.

Nom. Pipe Size	Univ. Part No.	S x S - REDUCING BUSHING				Approx. Wt. (lb)
		Q	L	C	CM	
1/2 x 3/4	837073	—	—	—	—	—
3/4 x 1/2	837101	1.252	0.914	1.017	1.382	0.035
1 x 1/2	837130	1.637	0.904	1.125	1.498	0.075
1 x 3/4	837131	1.637	1.04	1.135	1.507	0.06
1 1/4 x 1/2	837166	2.077	0.911	1.26	1.635	0.135
1 1/4 x 3/4	837167	2.075	1.018	1.255	1.625	0.125
1 1/4 x 1	837168	2.066	0.999	1.303	1.683	-0.1
1 1/2 x 1/2	837209	2.257	0.907	1.382	1.755	0.17
1 1/2 x 3/4	837210	2.258	1.0221	1.382	1.752	0.175
1 1/2 x 1	837211	2.26	1.154	1.383	1.754	0.155
1 1/2 x 1 1/4	837212	2.266	1.295	1.385	1.762	0.1
2 x 1/2	837247	2.814	0.903	1.503	1.875	0.245
2 x 3/4	837248	2.82	1.145	1.503	1.866	0.255
2 x 1	837249	2.826	1.145	1.504	1.876	0.285
2 x 1 1/4	837250	2.838	1.28	1.519	1.895	0.245
2 x 1 1/2	837251	2.822	1.41	1.518	1.886	0.2
2 1/2 x 1 1/2*	837287	—	—	—	—	—
2 1/2 x 3/4*	837288	—	—	—	—	—
2 1/2 x 1*	837289	—	—	—	—	—
2 1/2 x 1 1/4*	837290	—	—	—	—	—
2 1/2 x 1 1/2*	837291	—	—	—	—	—
2 1/2 x 2	837292	3.267	1.51	1.76	2.13	0.28
3 x 1	837335	3.904	1.145	1.885	2.265	0.605
3 x 1 1/4*	837336	—	—	—	—	—
3 x 1 1/2	837337	3.902	1.39	1.897	2.28	0.605
3 x 2	837338	3.905	1.505	1.882	2.265	0.595
3 x 2 1/2	837339	3.903	1.765	1.881	2.265	0.415
4 x 2	837420	4.912	1.543	2.283	2.653	1.09
4 x 2 1/2	837421	4.903	1.785	2.287	2.664	1.085
4 x 3	837422	4.898	1.883	2.288	2.661	0.9
6 x 3	837530	7.311	1.997	3.09	3.715	3.015
6 x 4	837532	7.311	2.311	3.11	3.715	3.385
8 x 6	837585	9.323	3.068	4.07	4.485	5.525
10 x 8	837628	10.758	4.546	5.74	6.37	9.165
12 x 10	837670	12.752	5.44	6.314	6.71	12.01

REDUCING BUSHINGS

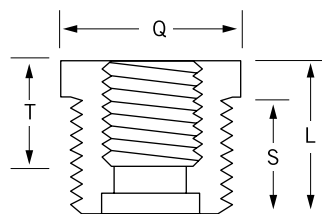


S x FPT
REDUCING BUSHING

* Loose Bushed.

Nom. Pipe Size	Univ. Part No.	S x FPT - REDUCING BUSHING				Approx. Wt. (lb)
		Q	T	CM	L	
$\frac{3}{4} \times \frac{1}{2}$	838101	1.375	0.776	1.026	1.343	0.04
$1 \times \frac{1}{2}$	838130	1.685	0.763	1.182	1.5	0.075
$1 \times \frac{3}{4}$	838131	1.685	0.775	1.198	1.497	0.065
$1\frac{1}{4} \times \frac{1}{2}$	838166	2.067	0.803	1.305	1.68	0.125
$1\frac{1}{4} \times \frac{3}{4}$	838167	2.074	0.692	1.254	1.645	0.13
$1\frac{1}{4} \times 1$	838168	2.066	0.812	1.303	1.683	0.105
$1\frac{1}{2} \times \frac{1}{2}$	838209	2.257	0.683	1.376	1.755	0.16
$1\frac{1}{2} \times \frac{3}{4}$	838210	2.323	0.807	1.428	1.814	0.165
$1\frac{1}{2} \times 1$	838211	2.319	1.01	1.414	1.805	0.155
$1\frac{1}{2} \times 1\frac{1}{4}$	838212	2.26	0.901	1.375	1.776	0.12
$2 \times \frac{1}{2}$	838247	2.812	0.684	1.505	1.882	0.23
$2 \times \frac{3}{4}$	838248	2.76	0.803	1.534	1.924	0.23
2×1	838249	2.754	0.994	1.542	1.917	0.24
$2 \times 1\frac{1}{4}$	838250	2.755	0.997	1.536	1.922	0.23
$2 \times 1\frac{1}{2}$	838251	2.755	0.995	1.536	1.922	0.205
$2\frac{1}{2} \times \frac{1}{2}^*$	838287	—	—	—	—	—
$2\frac{1}{2} \times \frac{3}{4}^*$	838288	—	—	—	—	—
$2\frac{1}{2} \times 1^*$	838289	—	—	—	—	—
$2\frac{1}{2} \times 1\frac{1}{4}^*$	838290	—	—	—	—	—
$2\frac{1}{2} \times 1\frac{1}{2}^*$	838291	—	—	—	—	—
$2\frac{1}{2} \times 2$	838292	3.188	1	1.75	1.953	0.22
$3 \times 1^*$	838335	—	—	—	—	—
$3 \times 1\frac{1}{4}^*$	838336	—	—	—	—	—
$3 \times 1\frac{1}{2}^*$	838337	—	—	—	—	—
3×2	838338	—	—	—	—	—
$3 \times 2\frac{1}{2}$	838339	3.844	1.438	1.75	2.094	0.36
4×2	838420	Consult Factory				
4×3	838422					

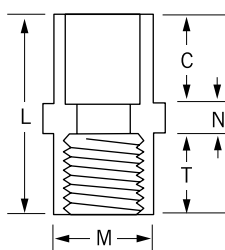
REDUCING BUSHINGS



MPT x FPT
REDUCING BUSHING

Nom. Pipe Size	Univ. Part No.	MPT x FPT - REDUCING BUSHING				Approx. Wt. (lb)
		Q	T	L	S	
$\frac{3}{4} \times \frac{1}{2}$	839101	1.38	0.995	0.762	0.687	0.03
$1 \times \frac{1}{2}$	839130	1.685	1.128	0.765	0.816	0.055
$1 \times \frac{3}{4}$	839131	1.688	1.16	0.775	0.819	0.045
$1\frac{1}{4} \times \frac{1}{2}$	839166	2.072	1.368	0.695	0.988	0.1
$1\frac{1}{4} \times \frac{3}{4}$	839167	2.075	1.39	0.805	1.007	0.105
$1\frac{1}{4} \times 1$	839168	2.072	1.393	1.018	1.013	0.085
$1\frac{1}{2} \times \frac{3}{4}$	839210	2.316	1.376	0.803	0.985	0.135
$1\frac{1}{2} \times 1$	839211	2.3115	1.38	0.996	0.988	0.125
$1\frac{1}{2} \times 1\frac{1}{4}$	839212	2.317	1.378	1.016	1.008	0.08
$2 \times \frac{1}{2}$	839247	2.821	1.405	0.69	1.035	0.18
$2 \times \frac{3}{4}$	839248	2.761	1.387	0.808	1.004	0.2
2×1	839249	2.772	1.383	0.995	0.995	0.215
$2 \times 1\frac{1}{4}$	839250	2.814	1.407	0.862	1.036	0.18
$2 \times 1\frac{1}{2}$	839251	2.761	1.381	1.011	1.011	0.15
$2\frac{1}{2} \times 2$	839292	Consult Factory				
3×2	839338					
4×2	839420					
4×3	839422					

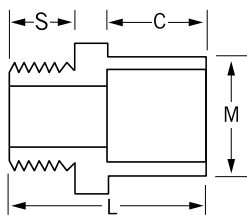
FEMALE ADAPTERS



S x FPT
FEMALE ADAPTER

Nom. Pipe Size	Max. O.D. Dim. M	Univ. Part No.	S x FPT - FEMALE ADAPTER				Approx. Wt. (lb)
			L	C	T	N	
1/2	1.301	835005	1.745	0.89	0.75	0.14	0.075
3/4	1.511	835007	1.879	0.997	0.768	0.229	0.095
1	1.818	835010	2.18	1.131	0.946	0.185	0.15
1 1/4	2.214	835012	2.363	1.27	0.977	0.293	0.225
1 1/2	2.516	835015	2.481	1.39	0.995	0.395	0.29
2	3.008	835020	2.654	1.511	1.03	0.481	0.39
2 1/2	3.586	835025	3.354	1.772	1.403	0.37	0.62
3	4.315	835030	3.565	1.905	1.1483	0.422	0.89
4	5.432	835040	4.033	2.275	1.588	0.687	1.45

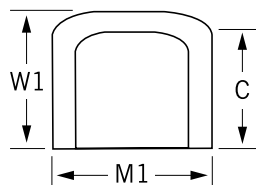
MALE ADAPTERS



MPT x S
MALE ADAPTER

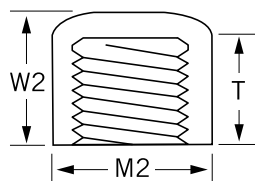
Nom. Pipe Size	Max O.D. Dim M	Univ. Part No.	MPT x S - MALE ADAPTER			Approx. Wt. (lb)
			C	S	L	
1/2	1.2	836005	0.89	0.753	1.892	0.045
3/4	1.418	836007	1.014	0.82	2.086	0.065
1	1.733	836010	1.142	0.975	2.39	0.1
1 1/4	2.1	836012	1.27	1.018	2.61	0.15
1 1/2	2.37	836015	1.396	1.018	2.745	0.195
2	2.885	836020	1.516	1.07	2.925	0.28
2 1/2	3.495	836025	1.765	1.41	3.51	0.545
3	4.17	836030	1.89	1.743	4.04	0.79
4	5.252	836040	2.27	1.725	4.385	1.285

CAPS AND PLUGS



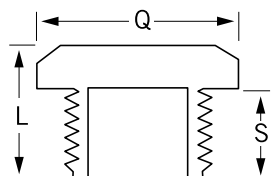
SOCKET CAP

Nom. Pipe Size	Univ. Part No.	SOCKET CAP			Approx. Wt. (lb)
		M1	C	W1	
1/2	847005	1.187	0.884	1.26	0.04
3/4	847007	1.402	0.996	1.36	0.055
1	847010	1.716	1.115	1.58	0.085
1 1/4	847012	2.088	1.265	1.73	0.125
1 1/2	847015	2.356	1.395	1.928	0.165
2	847020	2.855	1.508	2.145	0.245
2 1/2	847025	3.525	1.778	2.636	0.505
3	847030	4.182	1.885	2.848	0.725
4	847040	5.248	2.285	3.333	1.215
6	847060	7.587	3.057	4.826	2.935
8	Consult Factory				



THREADED CAP

Nom. Pipe Size	Univ. Part No.	THREADED CAP			Approx. Wt. (lb)
		M2	T	W2	
1/2	848005	1.296	0.757	1.185	0.05
3/4	848007	1.52	0.77	1.254	0.065
1	848010	1.83	0.985	1.49	0.11
1 1/4	848012	2.234	0.99	1.499	0.15
1 1/2	848015	2.488	1.01	1.547	0.185
2	848020	3.041	1.06	1.71	0.28
2 1/2	848025	—	—	—	—
3	848030	4.303	1.485	2.52	0.75
4	848040	5.47	1.585	2.88	1.42



MPT PLUG

Nom. Pipe Size	Univ. Part No.	MPT PLUG			Approx. Wt. (lb)
		Q	L	S	
1/2	850005	1.122	0.974	0.72	0.02
3/4	850007	1.377	1.048	0.75	0.035
1	850010	1.69	1.203	0.904	0.065
1 1/4	850012	2.055	1.433	1.005	0.11
1 1/2	850015	2.316	1.458	1.025	0.145
2	850020	2.812	1.44	1.012	0.21
2 1/2	850025	—	—	—	—
3	850030	—	—	—	—
4	850040	—	—	—	—

MANUFACTURER'S PRODUCT SPECIFICATION

Scope

This specification sheet covers the manufacturer's requirements for Corzan CPVC Schedule 80 pipe fittings as manufactured by IPEX. These fittings meet or exceed the standards set by the American Society for Testing and Materials and NSF international, Standards 14/61.

All fittings and raw materials are manufactured in the USA.

Corzan CPVC materials

Rigid Corzan* CPVC (chlorinated polyvinyl chloride) used in the manufacture of Schedule 80 fittings is Type IV, Grade 1 compound as sated in ASTM D-1784. Raw material used in molding shall contain the specified amounts of color pigment, stabilizers, and other additives approved by NSF International.

Dimensions

Physical dimensions and tolerances of Corzan CPVC Schedule 80 IPS fittings as manufactured by IPEX, meet the requirements of ASTM standard specification F-439 for socket-type fittings and ASTM F-437 for threaded fittings. Threaded fittings have Taper Pipe Threads in accordance with ANSI/ASME B1.20.2.

Marking

CPVC Schedule 80 fittings are marked as prescribed in ASTM F-437 and F-439 to indicate the manufacturer's name or trademark, material designation, the NSF mark, size fitting, and ASTM designation F-437 (threaded) or F-439 (socket).

Sample Specification

All Corzan CPVC Schedule 80 Socket fittings shall conform to ASTM F-439, and ASTM F-437 for threaded fittings. Both pipe and fittings shall be the product of one manufacturer, as manufactured by IPEX or approved equal.

Notes

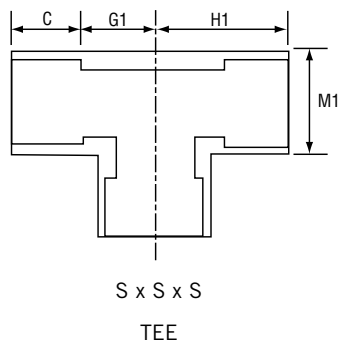
All dimensions are in inches unless otherwise specified. Dimensions are subject to change without notice. Contact factory for certification.

ASTM
MEMBER



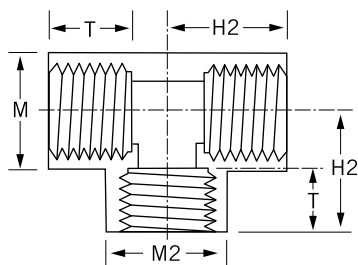
*Corzan is a trademark of The BF Goodrich Company and is registered or under application in various countries of the world.

TEES



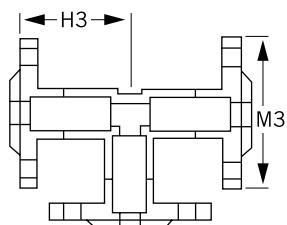
Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x S x S - TEE			Approx. Wt. (lb)
			C	H1	G1	
1/2	1.2	9801005	0.930	1.445	0.515	0.12
3/4	1.4	9801007	1.060	1.685	0.625	0.17
1	1.7	9801010	1.190	1.940	0.750	0.27
1 1/4	2.122	9801012	1.265	2.14	0.875	0.15
1 1/2	2.373	9801015	1.395	2.377	0.982	0.55
2	2.896	9801020	1.52	2.794	1.265	0.935
2 1/2	3.533	9801025	1.772	3.292	1.52	1.535
3	4.2	9801030	1.930	3.879	1.949	2.475
4	5.2	9801040	2.305	4.725	2.420	3.92
6	7.625	9801060	3.025	6.51	3.5	10.305
8	9.875	9801080	4.008	8.5	4.5	19.87
10	12.0		5.500	11.248	5.748	
12	14.2		6.500	13.386	6.886	

TEES



T x T x T
TEE

Nom. Pipe Size	Max O.D. Dim M2	Univ. Part No.	T x T x T - TEE		Approx. Wt. (lb)
			T	H2	
1/2	1.278	9805005	0.908	1.364	0.155
3/4	1.5	9805007	0.78	1.314	0.18
1	1.813	9805010	1.164	1.82	0.355
1 1/4	2.203	9805012	0.995	1.891	0.45
1 1/2	2.502	9805015	0.97	2.032	0.635
2	3.04	9805020	1.049	2.39	0.885
2 1/2	—	—	—	—	—
3	4.285	9805030	1.429	3.176	2.195
4	5.437	9805040	1.594	3.906	3.91
6	—	—	—	—	—
8	—	—	—	—	—

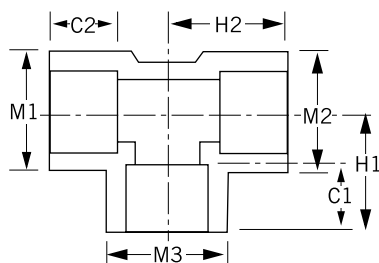


FLG x FLG x FLG*
TEE

* Not molded as a one-piece part,
flanges are cemented into tee.

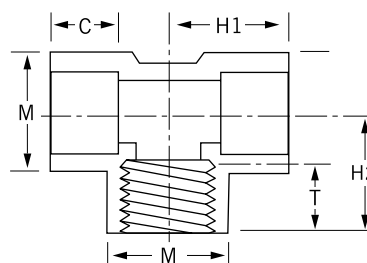
Nom. Pipe Size	Max O.D. Dim M3	Univ. Part No.	FLG x FLG x FLG - TEE		Approx. Wt. (lb)
			H3		
1/2	—	—	—		—
3/4	—	—	—		—
1	4.25	—	3.188		1.725
1 1/4	4.62	—	3.75		2.432
1 1/2	5	—	4		3.29
2	5	—	4.5		6.037
2 1/2	—	—	—		—
3	7.5	—	5.156		8.9
4	9	—	6.016		17.687
6	11	—	8.047		31.08
8	13.5	—	10.328		63.181

REDUCING TEES



S x S x S
REDUCING TEE

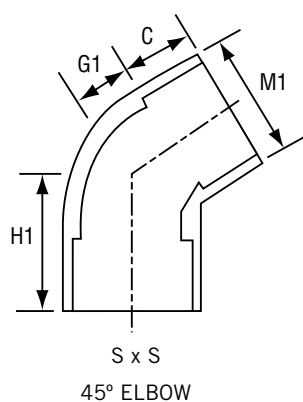
Nom. Pipe Size	Max O.D. Dim			S x S x S - REDUCING TEE					Approx. Wt. (lb)
	M1	M2	M3	Univ. Part No.	C	C2	H1	H2	
$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{2}$	1.417	1.419	1.198	9801101	0.9	1.026	1.478	1.653	0.17
1 x 1 x $\frac{1}{2}$	1.742	1.744	1.419	9801131	1.02	1.152	1.725	1.898	0.265
1½ x 1½ x 1	2.386	2.386	1.756	9801211	1.147	1.404	2.160	2.304	0.485
2 x 2 x 1	2.868	2.866	1.757	9801249	1.142	1.532	2.430	2.399	0.625
2 x 2 x 1½	2.869	2.87	2.381	9801251	1.382	1.530	2.660	2.740	0.76
3 x 3 x 2	4.162	4.176	2.852	9801338	1.525	1.990	3.312	3.450	1.79
4 x 4 x 2	5.212	5.22	4.13	9801422	1.908	2.273	4.220	4.468	3.245
6 x 6 x 4	7.625	7.625	5.25	9801532	2.275	3.025	5.750	5.825	7.915
8 x 8 x 6	9.8125	9.812	7.625	9801585	3.062	4.120	7.625	7.718	16.225



S x S x T
REDUCING TEE

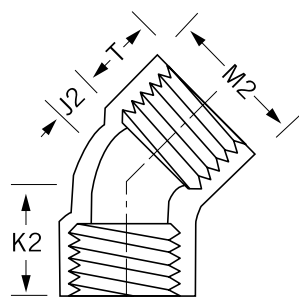
Nom. Pipe Size	Max O.D. Dim M	Univ. Part No.	S x S x T - REDUCING TEE			Approx. Wt. (lb)
			T	C	H1	
$\frac{1}{2}$	1.282	9802005	0.906	0.907	1.35	0.155
$\frac{3}{4}$	1.505	9802007	1.029	1.015	1.583	10.22
1	1.813	9802010	1.145	1.145	1.795	0.325

45° ELBOWS



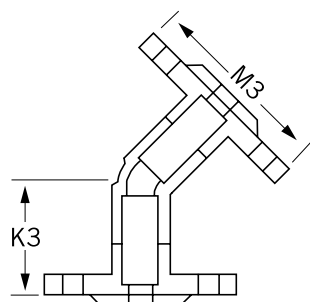
Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x S - 45° ELBOW			Approx. Wt. (lb)
			H1	C	G1	
1½	1.157	9817005	1.188	0.892	0.296	0.07
¾	1.391	9817007	1.34	1.008	0.335	0.105
1	1.71	9817010	1.482	1.132	0.35	0.16
1¼	2.08	9817012	1.638	1.263	0.375	0.235
1½	2.35	9817015	1.89	1.387	0.503	0.31
2	2.84	9817020	2.06	1.505	0.555	0.435
2½	3.524	9817025	2.485	1.765	0.72	0.9
3	4.16	9817030	2.66	1.891	0.769	1.21
4	5.23	9817040	3.323	2.258	1.065	2.085
6	7.665	9817060	4.812	3.032	1.78	6.305
8	9.75	9817080	6.25	4.032	2.218	11.61
10	12.0		8.110	5.500	2.610	
12	14.2		9.579	6.500	3.079	

45° ELBOWS



T x T
45° ELBOW

Nom. Pipe Size	Max O.D. Dim M2	Univ. Part No.	T x T - 45° ELBOW			Approx. Wt. (lb)
			K2	T	J2	
1/2	1.15	9819005	0.875	0.676	0.199	0.085
3/4	1.526	9819007	1.048	0.695	0.353	0.12
1	1.806	9819010	1.156	0.855	0.301	0.17
1 1/4	2.215	9819012	1.6	0.898	0.462	0.275
1 1/2	2.514	9819015	1.5	0.898	0.602	0.36
2	3.02	9819020	1.645	0.915	0.73	0.1
2 1/2	—	9819025	—	—	—	—
3	4.4	9819030	2.47	1.615	0.855	1.635
4	5.445	9819040	2.908	1.596	1.312	2.58
6	—	9819060	—	—	—	—
8	—	9819080	—	—	—	—

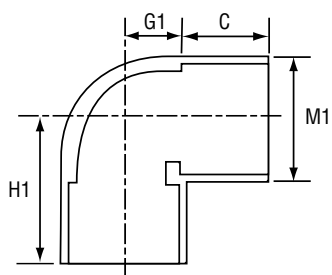


FLG x FLG*
45° ELBOW

* Not molded as a one-piece part,
flanges are cemented into tee.

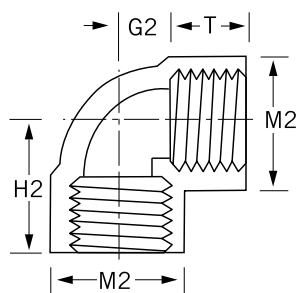
Nom. Pipe Size	Max O.D. Dim M3	Univ. Part No.	FLG x FLG - 45° ELBOW		Approx. Wt. (lb)
			K3		
1/2	—	—	—		—
3/4	—	—	—		—
1	4.25	—	2.813		1.097
1 1/4	4.62	—	3.125		1.496
1 1/2	5	—	3.391		1.934
2	6	—	3.688		2.977
2 1/2	—	—	—		—
3	7.5	—	4.094		6.213
4	—	—	5.031		10.782
6	11	—	6.281		20.517
8	13.5	—	8.047		40.431

90° ELBOWS



S x S
90° ELBOW

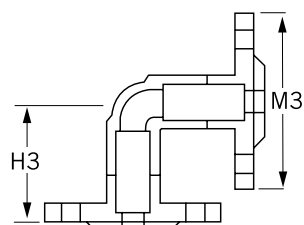
Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x S - 90° ELBOW			Approx. Wt. (lb)
			C	H1	G1	
1/2	1.1	9806005	0.89	1.445	0.555	0.09
3/4	1.4	9806007	1.020	1.685	0.665	0.125
1	1.7	9806010	1.145	1.940	0.795	0.2205
1 1/4	2.114	9806012	1.264	2.148	0.884	0.31
1 1/2	2.377	9806015	1.388	2.396	1.003	0.405
2	2.9	9806020	1.522	2.797	1.275	0.665
2 1/2	3.552	9806025	1.776	3.314	1.538	1.175
3	4.168	9806030	1.89	3.725	1.835	1.56
4	5.328	9806040	2.266	4.609	2.344	2.93
6	7.584	9806060	3.02	6.583	3.563	7.965
8	9.75	9806080	4	8.625	4.625	14.64
10	12.0		5.500	11.248	5.748	
12	14.2		6.500	13.386	6.886	



T x T
90° ELBOW

Nom. Pipe Size	Max O.D. Dim M2	Univ. Part No.	T x T - 90° ELBOW			Approx. Wt. (lb)
			T	H2	G2	
1/2	1.284	9808005	0.749	1.196	0.447	0.095
3/4	1.496	9808007	1.034	1.591	0.557	0.16
1	1.824	9808010	1.168	1.804	0.644	0.25
1 1/4	2.21	9808012	1.002	1.875	0.873	0.33
1 1/2	2.5	9808015	0.98	2.024	1.044	0.4335
2	3.063	9808020	1.063	2.48	1.375	0.655
2 1/2	—	—	—	—	—	—
3	4.324	9808030	1.424	2.885	1.695	1.695
4	5.442	9808040	1.6	3.885	2.285	2.885
6	—	—	—	—	—	—
8	—	—	—	—	—	—

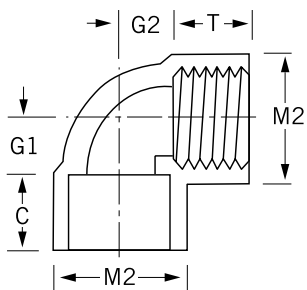
90° ELBOWS



FLG x FLG*
90° ELBOW

* Not molded as a one-piece part,
flanges are cemented into tee.

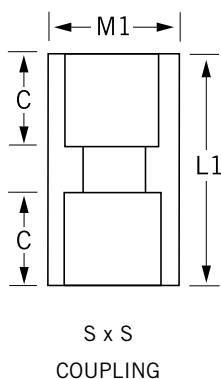
Nom. Pipe Size	Max O.D. Dim M3	FLG x FLG - 90° ELBOW		
		Univ. Part No.	H3	Approx. Wt. (lb)
1/2	—	—	—	—
3/4	—	—	—	—
1	4.25	—	3.156	1.24
1 1/4	4.62	—	3.672	1.696
1 1/2	5	—	3.906	2.22
2	6	—	4.734	4.147
2 1/2	—	—	—	—
3	7.5	—	5.031	6.56
4	9	—	6.016	11.56
6	11	—	8.188	22.28
8	13.5	—	10.422	43.668



S x T
90° ELBOW

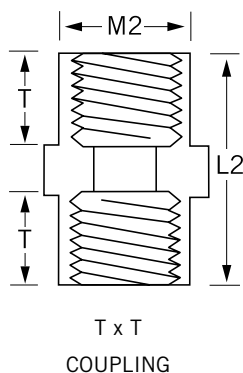
Nom. Pipe Size	Max O.D. Dim M2	Univ. Part No.	S x T - 90° ELBOW				Approx. Wt. (lb)
			T	C	G1	G2	
1/2	1.284	9807005	0.895	0.906	0.457	0.468	0.11
3/4	1.5	9807007	1.03	1.024	0.572	0.566	0.155
1	1.806	9807010	1.15	1.105	0.657	0.657	0.23

COUPLINGS



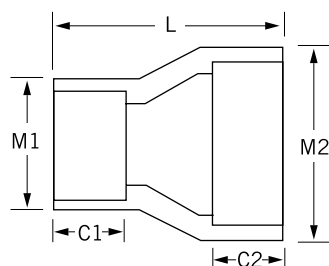
* Fabricated parts made from Schedule 80 pipe.

Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x S - COUPLING		Approx. Wt. (lb)
			L1	C	
1/2	1.182	9829005	1.91	0.895	0.06
3/4	1.402	9829007	2.156	1.024	0.08
1	1.747	9829010	2.4	1.15	0.14
1 1/4	2.07	9829012	2.654	1.284	0.18
1 1/2	2.345	9829015	2.905	1.405	0.235
2	2.839	9829020	3.163	1.528	0.335
2 1/2	3.516	9829025	3.744	1.772	0.655
3	4.154	9829030	4.01	1.892	0.92
4	5.227	9829040	4.744	2.27	1.525
6	7.789	9829060	6.298	3.014	3.695
8	10.049	9829080	9.375	4.527	8.07
10*	12.044	9829100	18	7.625	23.28
12*	14.239	9829120	14.625	4.75	33.24



Nom. Pipe Size	Max O.D. Dim M2	Univ. Part No.	T x T - COUPLING		Approx. Wt. (lb)
			L2	T	
1/2	1.311	9830005	1.602	0.758	0.075
3/4	1.524	9830007	1.622	0.75	0.095
1	1.835	9830010	2.012	0.942	0.16
1 1/4	2.216	9830012	2.204	1.057	0.23
1 1/2	2.515	9830015	2.234	1.071	0.295
2	3.014	9830020	2.497	1.204	0.415
2 1/2	—	—	—	—	—
3	4.313	9830030	3.188	1.5	1.025
4	4.324	9830040	3.25	1.54	1.575

REDUCING COUPLINGS

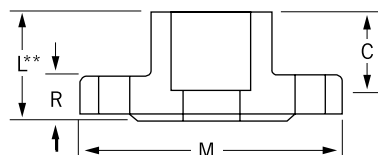


S x S
REDUCING COUPLING

* Consult factory for dimensions - all sizes.

Nom. Pipe Size*	Univ. Part No.	S x S - REDUCING COUPLING					Approx. Wt. (lb)
		M1	M2	C1	C2	L	
3/4 x 1/2	9829101	1.165	1.452	0.906	1.04	2.08	0.08
1 x 1/2	9829130	1.166	1.707	0.909	1.161	2.373	0.105
1 x 3/4	9829131	1.454	1.711	1.033	1.158	2.38	0.12
1 1/4 x 1	9829168	1.704	2.075	1.155	1.281	2.656	0.175
1 1/2 x 1	9829211	1.705	2.333	1.156	1.407	3.048	0.22
1 1/2 x 1 1/4	9829212	2.074	2.334	1.28	1.41	3.048	0.24
2 x 1	9829249	1.71	2.848	1.158	1.54	3.54	0.31
2 x 1 1/2	9829251	2.334	2.844	1.408	1.537	3.512	0.35
3 x 2	9829338	2.841	4.131	1.53	1.903	4.125	0.755
4 x 2	9829420	2.842	5.23	1.531	2.282	5.104	1.355
4 x 3	9829422	4.138	5.23	1.901	2.281	5.104	1.46
6 x 4	9829532	5.219	7.547	2.281	3.031	6.719	3.41

SOCKET FLANGES - 150 LB



ONE PIECE FLANGES

Nom. Pipe Size	Max. O.D. Dim. M	Univ. Part No.	Dimensions - ONE PIECE FLANGE			No. Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter	Approx. Wt. (lb)
			L**	C*	R				
1/2	3.5	9851005	1.105	0.903	0.47	4	0.63	2.375	0.21
3/4	3.88	9851007	1.206	1.018	0.522	4	0.635	2.75	0.28
1	4.25	9851010	1.339	1.133	0.585	4	0.633	3.125	0.38
1 1/4	4.62	9851012	1.466	1.274	0.651	4	0.62	3.5	0.485
1 1/2	5	9851015	1.59	1.392	0.728	4	0.62	3.75	0.61
2	6	9851020	1.73	1.513	0.804	4	0.743	4.75	0.97
2 1/2	7	9851025	1.958	1.745	0.9	4	0.745	5.5	1.37

** Includes seal ring height (over all length)

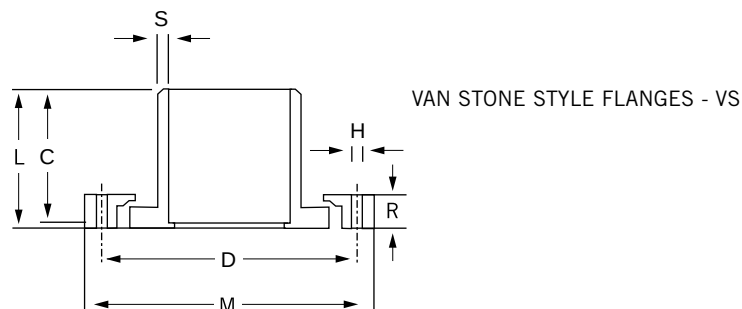
* C dimension is socket depth or spigot length.

Flange rings are manufactured from a PVC composite material.

Flanges meet ASTM F-1970.

Flange bolt hole patterns meet ANSI B16.5.

SOCKET FLANGES - 150 LB

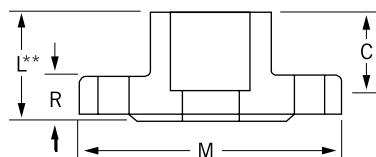


Nom. Pipe Size	Max. O.D. Dim. M	Univ. Part No.	Dimensions - VS			No. Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter	Approx. Wt. (lb)
			L**	C*	R				
1½	5	9854015	1.81	1.392	0.997	4	0.618	3.869	0.655
2	6	9854020	2.02	1.513	1.131	4	0.744	4.738	1.035
3	7.5	9854030	2.076	1.896	0.897	4	0.7	6	1.685
4	9	9854040	2.511	22.271	1.087	8	0.76	7.5	2.665
6	11	9854060	3.196	3.022	1.217	8	0.9	9.5	3.98
8	13.5	9854080	4.324	4.014	1.51	8	0.895	11.75	7.8
10	16.000	9854100	*5.375	5.000	1.69	12	1.025	14.25	12.505
12	19.000	9854120	*6.500	6.000	1.69	12	1.028	17.000	19.45

* New dimensions

10" & 12" Vanstone style socket flanges complete with fibre reinforced PVC rings

IPEX's 10" and 12" Vanstone Flanges now exceed the requirements of ASTM F1970 and are third-party certified to NSF 14. In order to meet this new standard some hub dimensions have been modified. Please refer to the chart for specific details.



Nom. Pipe Size	Max. O.D. Dim. M	Univ. Part No.	Dimensions - VS - SPG			No. Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter	Approx. Wt. (lb)
			L**	C*	R				
3	7.5	9856030	3.122	1.87	0.897	4	0.75	6	2.025
4	9	9856040	3.66	2.257	1.087	8	0.75	7.5	3.17
6	11	9856060	4.5	3	1.25	8	0.875	9.5	5.145
8	13.5	9856080	5.76	3.984	1.51	8	0.875	11.75	9.37

** Includes seal ring height (length over all)

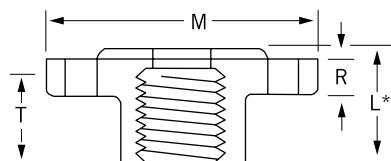
* C dimension is socket depth or spigot length.

Flange rings are manufactured from a PVC composite material.

Flanges meet ASTM F-1970.

Flange bolt hole patterns meet ANSI B16.5.

THREADED FLANGES - 150 LB



ONE PIECE FLANGES - THREADED

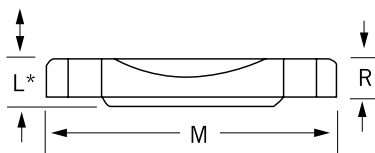
* Includes seal ring height.

Nom. Pipe Size	Max. O.D. Dim. M	Univ. Part No.	Dimensions - FLANGE THREADED			No. Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter	Approx. Wt. (lb)
			L*	T	R				
1/2	3.5	9852005	1.01	0.83	0.468	4	0.628	2.375	0.21
3/4	3.88	9852007	1.012	0.812	0.522	4	0.628	2.75	0.285
1	4.25	9852010	1.169	0.968	0.582	4	0.625	3.125	0.375
1 1/4	4.62	9852012	1.281	1	0.625	4	0.625	3.5	0.505
1 1/2	5	9852015	1.25	1	0.688	4	0.625	3.75	0.635
2	6	9852020	1.281	1.062	0.813	4	0.741	4.75	0.975
3	7.5	9852030	1.686	1.451	0.898	4	0.74	6	1.655
4	9	9852040	2.484	1.563	1.063	8	0.75	7.5	2.685

Flanges meet ASTM F-1970.

Flange bolt hole patterns meet ANSI B16.5.

BLIND FLANGES - 150 LB

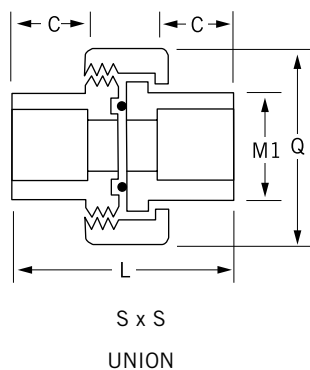


ONE PIECE FLANGES - BLIND

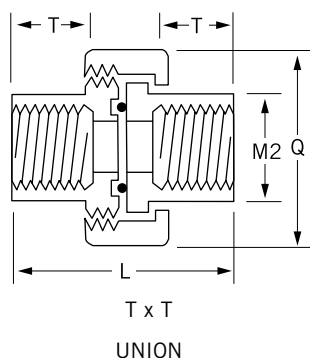
* Includes seal ring height.

Nom. Pipe Size	Max. O.D. Dim. M	Univ. Part No.	Dimensions - FLANGE BLIND		No. Bolt Holes	Bolt Hole Diameter	Bolt Circle Diameter	Approx. Wt. (lb)
			L*	R				
1/2	3.5	9853005	0.525	0.47	4	0.632	2.373	0.195
3/4	3.88	9853007	0.521	0.564	4	0.63	2.743	0.27
1	4.25	9853010	0.631	0.58	4	0.631	3.113	0.36
1 1/4	4.62	9853012	0.712	0.65	4	0.62	3.499	0.488
1 1/2	5	9853015	0.781	0.722	4	0.622	3.875	0.615
2	6	9853020	0.872	0.802	4	0.74	4.733	0.975
3	7.5	9853030	0.964	0.903	4	0.777	5.986	1.64
4	9	9853040	1.166	1.096	8	0.785	7.481	2.835
6	11	9853060	1.269	1.122	8	0.91	9.468	4.53
8	13.5	9853080	1.606	1.471	8	0.908	11.714	7.805

UNIONS (O-RING SEAT)



Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x S - UNION			Approx. Wt. (lb)
			L	C	Q	
1/2	1.21	9897005	2.311	0.889	1.981	0.16
3/4	1.451	9897007	2.57	1.015	2.343	0.245
1	1.765	9897010	2.862	1.135	2.666	0.355
1 1/4	2.163	9897012	3.395	1.269	3.087	0.505
1 1/2	2.444	9897015	3.821	1.383	3.806	0.865
2	2.943	9897020	4.187	1.515	4.805	1.46
3	6.91	9897030	4.956	1.88	4.009	4.095



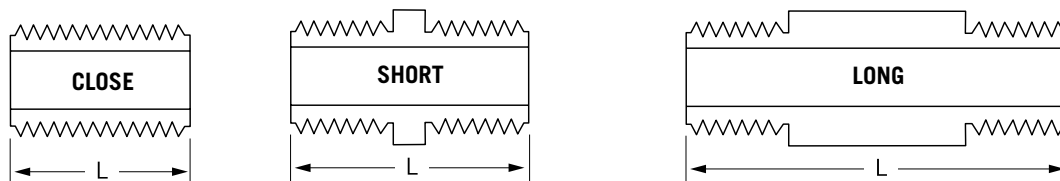
Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x S - UNION			Approx. Wt. (lb)
			L	C	Q	
1/2	1.196	9898005	2.117	0.815	1.981	0.165
3/4	1.521	9898007	2.351	0.819	2.289	0.255
1	1.739	9898010	2.648	1.017	2.663	0.35
1 1/4	2.173	9898012	3.105	1.15	3.09	0.52
1 1/2	2.547	9898015	3.072	1.041	3.809	0.93
2	3.03	9898020	3.297	1.125	4.785	1.48
3	4.274	9898030	4.26	1.545	6.914	4.215

Unions meet ASTM F-1970.

EDPM O-rings are standard. Viton®** available upon request.

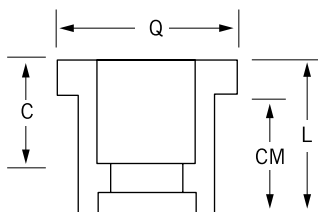
*Viton® is a registered trademark of DuPont Dow Elastomers.

NIPPLES



Nom. Pipe Size	CLOSE		SHORT		3" LONG	4" LONG	5" LONG	6" LONG
	Univ. Part No.	L	Univ. Part No.	L	Univ. Part No.	Univ. Part No.	Univ. Part No.	Univ. Part No.
$\frac{1}{2}$	9861077	1.125	9861078	1.5	9861081	9861082	9861083	9861084
$\frac{3}{4}$	9861104	1.375	9861105	2	9861106	9861107	9861108	9861109
1	9861133	1.5	9861134	2	9861135	9861136	9861137	9861138
$1\frac{1}{4}$	9861170	1.625	9861171	2.5	9861172	9861173	9861174	9861175
$1\frac{1}{2}$	9861213	1.75	9861214	2.5	9861215	9861216	9861217	9861218
2	9861251	2	9861252	2.5	9861253	9861254	9861255	9861256
3	9861338	2.625	9861339	3	—	9861341	9861342	9861343
4	9861422	2.75	9861433	4	—	—	9861425	9861426

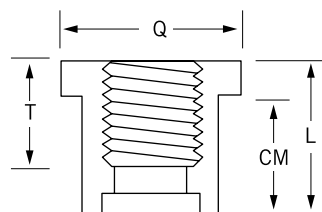
REDUCING BUSHINGS



S x S
REDUCING BUSHING

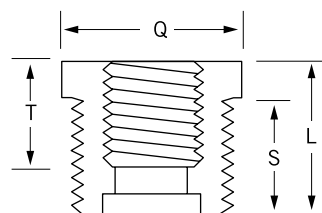
Nom. Pipe Size	Univ. Part No.	S x S - REDUCING BUSHING				Approx. Wt. (lb)
		Q	L	C	CM	
$\frac{3}{4} \times \frac{1}{2}$	9837101	1.25	1.379	0.905	0.999	0.035
$1 \times \frac{1}{2}$	9837130	1.632	1.494	0.895	1.122	0.08
$1 \times \frac{3}{4}$	9837131	1.628	1.501	0 1.02	1.13	0.06
$1\frac{1}{4} \times \frac{1}{2}$	9837166	2.061	1.63	0.895	1.248	0.14
$1\frac{1}{4} \times \frac{3}{4}$	9837167	2.066	1.617	1.019	1.256	0.135
$1\frac{1}{4} \times 1$	9837168	2.065	1.688	0.992	1.303	0.105
$1\frac{1}{2} \times \frac{1}{2}$	9837209	2.2422	1.742	0.9	1.375	0.175
$1\frac{1}{2} \times \frac{3}{4}$	9837210	2.247	1.759	1.015	1.375	0.185
$1\frac{1}{2} \times 1$	9837211	2.24	1.7747	1.145	1.375	0.16
$1\frac{1}{2} \times 1\frac{1}{4}$	9837212	2.141	1.547	1.281	1.375	0.105
$2 \times \frac{1}{2}$	9837247	2.81	1.89	0.904	1.5	0.26
$2 \times \frac{3}{4}$	9837248	2.813	1.873	1.16	1.504	0.275
2×1	9837249	2.821	1.89	1.146	1.502	0.305
$2 \times 1\frac{1}{4}$	9837250	2.822	1.865	1.262	1.5	0.255
$2 \times 1\frac{1}{2}$	9837251	2.815	1.87	1.402	1.505	0.205
$2\frac{1}{2} \times 2$	9837292	3.26	2.123	1.515	1.75	0.3
3×1	9837335	3.895	2.248	1.141	1.875	0.58
$3 \times 1\frac{1}{2}$	9837337	3.891	2.245	1.388	1.875	0.65
3×2	9837338	3.889	2.261	1.506	1.89	0.63
$3 \times 2\frac{1}{2}$	9837339	3.886	2.263	1.756	1.891	0.445
4×2	9837420	4.892	2.644	1.538	2.266	1.17
4×3	9837422	4.882	2.643	1.88	2.265	0.965
6×3	9837530	7.291	3.72	1.995	3.105	3.225
6×4	9837532	7.3	3.724	2.255	0.103	3.005
8×6	9837585	9.312	4.514	3.109	4.125	5.995
10×8	9837628	10.75	6.5	4.5	5.875	10.07

REDUCING BUSHINGS



S x FPT
REDUCING BUSHING

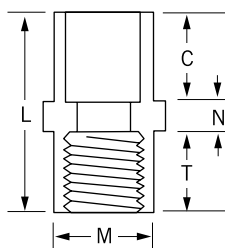
Nom. Pipe Size	Univ. Part No.	S x FPT - REDUCING BUSHING				Approx. Wt. (lb)
		Q	T	CM	L	
$\frac{3}{4} \times \frac{1}{2}$	9838101	1.373	0.762	1.028	1.336	0.045
$1 \times \frac{1}{2}$	9838130	1.676	0.76	1.19	1.49	0.085
$1 \times \frac{3}{4}$	9838131	1.678	0.77	1.19	1.506	0.07
$1\frac{1}{4} \times \frac{1}{2}$	9838166	2.065	0.685	1.248	1.625	0.14
$1\frac{1}{4} \times \frac{3}{4}$	9838167	2.062	0.841	1.275	1.626	0.125
$1\frac{1}{4} \times 1$	9838168	2.065	1.02	1.303	1.8	0.105
$1\frac{1}{2} \times \frac{1}{2}$	9838209	2.247	0.674	1.367	1.74	0.17
$1\frac{1}{2} \times \frac{3}{4}$	9838210	2.094	0.777	1.402	1.723	0.18
$1\frac{1}{2} \times 1$	9828211	2.253	0.795	1.373	1.75	0.165
$1\frac{1}{2} \times 1\frac{1}{4}$	9828212	2.313	1.07	1.4	1.765	0.115
$2 \times \frac{1}{2}$	9838247	2.805	0.691	1.495	1.875	0.255
$2 \times \frac{3}{4}$	9838248	2.742	0.8	1.543	1.917	0.245
2×1	9838249	2.806	0.812	1.495	1.867	0.25
$2 \times 1\frac{1}{4}$	9838250	2.813	0.875	1.531	1.906	0.25
$2 \times 1\frac{1}{2}$	9838251	2.806	0.859	1.499	1.87	0.22
$3 \times 1\frac{1}{2}$	9838338	—	—	—	—	—



MPT x FPT
REDUCING BUSHING

Nom. Pipe Size	Univ. Part No.	MPT x FPT - REDUCING BUSHING				Approx. Wt. (lb)
		Q	T	L	S	
$\frac{3}{4} \times \frac{1}{2}$	9839101	1.372	0.988	0.765	0.708	0.03
$1 \times \frac{1}{2}$	9839130	1.68	1.119	0.762	0.817	0.06
$1 \times \frac{3}{4}$	9839131	1.676	1.13	0.772	0.822	0.045
$1\frac{1}{4} \times \frac{1}{2}$	9839166	2.063	1.375	0.846	1.008	0.115
$1\frac{1}{4} \times \frac{3}{4}$	9839167	2.063	1.359	0.818	1.004	0.11
$1\frac{1}{4} \times 1$	9839168	2.058	1.357	0.803	0.983	0.09
$1\frac{1}{2} \times \frac{3}{4}$	9839210	2.308	1.39	0.823	1.016	0.15
$1\frac{1}{2} \times 1$	9839211	2.247	1.375	0.782	1.003	0.12
$1\frac{1}{2} \times 1\frac{1}{4}$	9839212	2.309	1.377	1.004	1.012	0.085
2×1	9839249	2.811	1.396	0.771	1.036	0.185
$2 \times 1\frac{1}{4}$	9839250	2.833	1.418	1.078	1.005	0.19
$2 \times 1\frac{1}{2}$	9839251	2.807	1.4	0.879	1.029	0.16

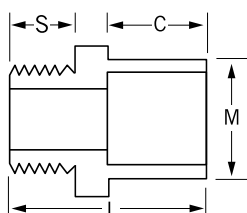
FEMALE ADAPTERS



S x FPT
FEMALE ADAPTER

Nom. Pipe Size*	Max. O.D. Dim. M	Univ. Part No.	S x FPT - FEMALE ADAPTER				Approx. Wt. (lb)
			L	C	T	N	
1/2	1.299	9835005	1.746	0.88	0.765	0.101	0.08
3/4	1.514	9835007	1.877	1.004	0.759	0.114	0.105
1	1.83	9835010	2.195	1.13	0.966	0.099	0.165
1 1/4	2.214	9835012	2.364	1.26	0.985	0.119	0.235
1 1/2	2.507	9835015	2.474	1.388	0.99	0.096	0.3
2	2.999	9835020	2.647	1.51	1.035	0.102	0.41
2 1/2	3.531	9835025	3.375	1.75	1.375	0.188	0.665
3	4.315	9835030	3.549	1.88	1.48	0.189	0.93
4	5.43	9835040	4.035	2.255	1.57	0.21	1.505

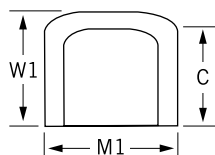
MALE ADAPTERS



MPT x S
MALE ADAPTER

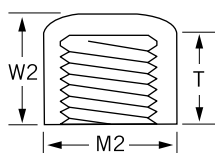
Nom. Pipe Size	Max O.D. Dim M	Univ. Part No.	MPT x S - MALE ADAPTER			Approx. Wt. (lb)
			C	S	L	
1/2	1.222	9836005	0.888	0.755	1.888	0.05
3/4	1.425	9836007	1.015	0.819	2.082	0.07
1	1.745	9836919	1.133	0.981	2.395	0.115
1 1/4	2.124	9836012	1.265	1.014	2.602	0.165
1 1/2	2.388	9836015	1.384	1.018	2.705	0.205
2	2.898	9836020	1.51	1.078	2.902	0.295
2 1/2	3.515	9836025	1.765	1.408	3.47	0.575
3	4.203	9836030	1.885	1.585	3.855	0.845
4	5.219	9836040	2.25	1.625	4.31	1.305

CAPS



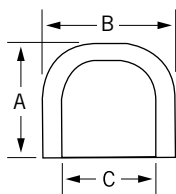
SOCKET CAP

Nom. Pipe Size	Univ. Part No.	SOCKET CAP			Approx. Wt. (lb)
		M1	C	W1	
1/2	9847005	1.181	0.9	1.282	0.04
3/4	9847007	1.393	0.998	1.341	0.055
1	9847010	1.707	1.15	1.56	0.09
1 1/4	9847012	2.077	1.265	1.762	0.13
1 1/2	9847015	2.344	1.388	1.875	0.18
2	9847020	2.845	1.52	2.069	0.269
2 1/2	9847025	3.502	1.776	2.65	0.535
3	9847030	4.141	1.89	2.96	0.75
4	9847040	5.231	2.28	3.5	1.29
6	9847060	7.562	3.055	5.125	3.13



THREADED CAP

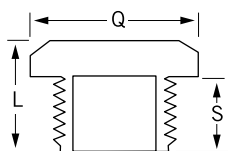
Nom. Pipe Size	Univ. Part No.	THREADED CAP			Approx. Wt. (lb)
		M2	T	W2	
1/2	9848005	1.296	0.85	1.293	0.06
3/4	9848007	1.515	0.8	1.269	0.075
1	9848010	1.818	1.01	1.51	0.115
1 1/4	9848012	2.226	1.005	1.5	0.165
1 1/2	9848015	2.2478	1.013	1.505	0.195
2	9848020	3.026	1.03	1.75	0.305
2 1/2	—	—	—	—	—
3	9848030	4.286	1.486	2.515	0.8
4	9848040	5.395	1.6	2.937	1.26



SOCKET END CAP

Nom. Pipe Size	Univ. Part No.	SOCKET END CAP			Approx. Wt. (lb)
		A	B	C	
1/4		0.9375	0.8125	0.544	
3/8		1.125	1.00	0.679	

PLUGS



MPT PLUG

Nom. Pipe Size	Univ. Part No.	MPT PLUG			Approx. Wt. (lb)
		Q	L	S	
1/2	9850005	1.112	0.97	0.714	0.025
3/4	9850007	1.375	1.053	0.752	0.04
1	9850010	1.682	1.204	0.895	0.065
1 1/4	9850012	2.051	1.435	1.001	0.125
1 1/2	9850015	2.305	1.441	1.01	0.155
2	9850020	2.799	1.43	1.006	0.2115
2 1/2	—	—	—	—	—
3	9850030	3.5	2.594	1.344	0.44
4	9850040	4.719	2.563	1.625	0.75

MANUFACTURER'S PRODUCT SPECIFICATION

Scope

This specification sheet covers the manufacturer's requirements for Xirtec140 PVC Schedule 40 pressure pipe fittings as manufactured by IPEX. These fittings meet or exceed standards set by the American Society for Testing and Materials and NSF International, Standards 14/61.

All fittings and raw materials are manufactured in the USA.

Xirtec140 PVC Materials

Rigid Xirtec140 PVC (polyvinyl chloride) used in the manufacture of Schedule 40 fittings is of Type I, Grade 1 compound as stated in ASTM D-1784. Raw material used in molding shall contain the specified amounts of color pigment, stabilizers, and other additives approved by NSF International.

Dimensions

Physical dimensions and tolerances of Xirtec140 PVC Schedule 40 fittings as manufactured by IPEX, meet the requirements of ASTM standard D-2466.

Marking

Xirtec140 PVC Schedule 40 IPS fittings are marked as prescribed in ASTM D-2466 to indicate the manufacturer's name or trademark, material designation, the NSF mark, size of fitting, and ASTM designation.

Sample Specification

All Xirtec140 PVC Schedule 40 fittings shall conform to ASTM D-2466. Both pipe and fittings shall be the product of one manufacturer as manufactured by IPEX or approved equal.

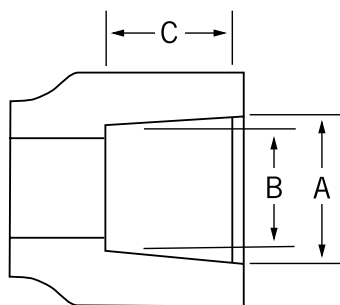
Notes

All dimensions are in inches unless otherwise specified. Dimensions are subject to change without notice. Contact factory for certification.

ASTM
MEMBER



WEIGHTS AND DIMENSIONS

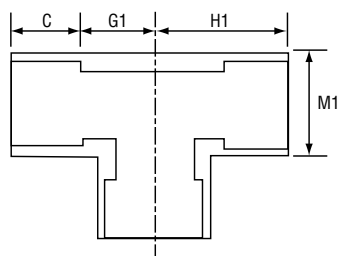


Xirtec140 PVC SCHEDULE 40
TAPER SOCKET DIMENSIONS
(SOLVENT CEMENT STYLE)
ASTM D-2466 (PVC)

Nom. Pipe Size	Pipe O.D.	Socket Entrance I.D. (A)		Socket Bottom I.D. (B)		Min. Socket Length (C)
		Min.	Max.	Min.	Max.	
1/2	0.840	0.844	0.852	0.8322	0.840	0.875
3/4	1.050	1.054	1.062	1.042	1.050	1.000
1	1.315	1.320	1.330	1.305	1.315	1.125
1 1/4	1.660	1.665	1.675	1.650	1.660	1.250
1 1/2	1.900	1.906	1.9118	1.888	1.900	1.375
2	2/375	2.381	2.393	2.363	2.375	1.500
2 1/2	2.875	2.882	2.896	2.861	2.875	1.750
3	3.500	3.508	3.524	3.484	3.500	1.972
4	4.500	4.509	4.527	4.482	4.500	2.250
6	6.625	6.636	6.658	6.603	6.625	3.000
8	8.625	8.640	8.670	8.595	8.625	4.000

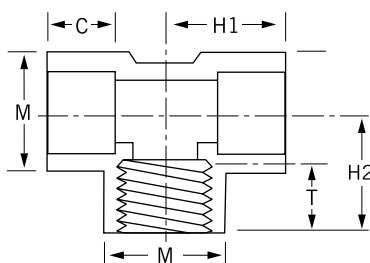
For threaded female dimensions, see Schedule 80 Female Taper Threads

TEES



S x S x S
TEE

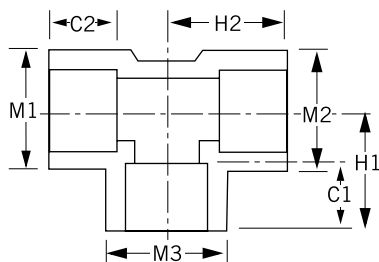
Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x S x S - TEE			Approx. Wt. (lb)
			C	H	G	
1/2	1.086	401005	0.901	1.401	0.5	0.08
3/4	1.314	401007	1.03	1.583	0.553	0.11
1	1.623	401010	1.174	1.829	0.665	0.19
1 1/4	2.107	401012	1.28	2.17	0.89	0.385
1 1/2	2.36	401015	1.4	2.415	1.015	0.5
2	2.867	401020	1.521	2.782	1.261	0.775
2 1/2	3.32	401025	1.775	3.31	1.531	1.01
3	4.0	401030	1.930	3.879	1.949	1.435
4	5.0	401040	2.060	4.525	2.465	2.24
6	7.25	401060	3.06	6.594	3.534	5.845
8	9.437	401080	4.055	8.625	4.57	12.315
10	11.5		5.500	11.248	5.748	
12	13.6		6.500	13.386	6.886	



S x S x c FPT
TEE

Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x S x c FPT - TEE				Approx. Wt. (lb)
			T	H1	H2	G	
1/2	402005	0.92	0.91	1.417	1.416	0.496	0.1
3/4	402007	1.035	1.033	1.61	1.607	0.572	0.13
1	402010	1.159	1.158	1.867	1.866	0.707	0.19
1 1/4	402012	1.286	1.28	2.189	2.189	0.903	0.295
1 1/2	402015	1.409	1.402	2.427	2.427	1.018	0.38
2	402020	1.084	1.181	2.487	2.487	1.403	0.565

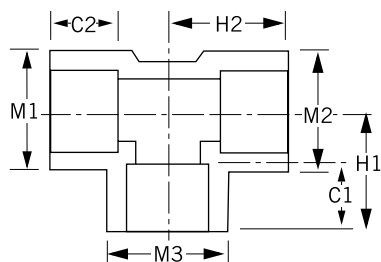
REDUCING TEES



S x S x S
TEE

Nom. Pipe Size	Max. O.D. Dim			Univ. Part No.	S x S x S - TEE					Approx. Wt. (lb)
	M1	M2	M3		C1	C2	H1	H2	G	
1/2 x 1/2 x 3/4	—	—	—	401074	—	—	—	—	—	—
3/4 x 1/2 x 1/2	—	—	—	401094	—	—	—	—	—	—
3/4 x 1/2 x 3/4	—	—	—	401095	—	—	—	—	—	—
3/4 x 3/4 x 1/2	1.347	1.343	1.091	401101	0.905	1.036	1.487	1.586	0.587	0.11
3/4 x 3/4 x 1	—	—	—	401102	—	—	—	—	—	—
1 x 1/2 x 1	—	—	—	401112	—	—	—	—	—	—
1 x 3/4 x 1/2	—	—	—	401124	—	—	—	—	—	—
1 x 3/4 x 3/4	—	—	—	401125	—	—	—	—	—	—
1 x 3/4 x 1	—	—	—	401126	—	—	—	—	—	—
1 x 1 x 1/2	1.652	1.651	1.094	401130	0.911	1.153	1.62	1.85	0.665	0.165
1 x 1 x 3/4	1.663	1.662	1.356	401131	1.036	1.153	1.726	1.872	0.698	0.185
1 x 1 x 1 1/4	—	—	—	401132	—	—	—	—	—	—
1 1/4 x 1 x 1/2	—	—	—	401156	—	—	—	—	—	—
1 1/4 x 1 x 3/4	—	—	—	401157	—	—	—	—	—	—
1 1/4 x 1 x 1	—	—	—	401158	—	—	—	—	—	—
1 1/4 x 1 1/4 x 1/2	1.983	1.984	1.098	401166	0.901	1.272	1.871	1.775	0.918	0.19
1 1/4 x 1 1/4 x 3/4	1.98	1.981	1.318	401167	1.03	1.271	2	1.885	0.906	0.205
1 1/4 x 1 1/4 x 1	1.975	1.973	1.62	401168	1.15	1.273	2.11	1.995	0.906	0.23
1 1/2 x 1 1/4 x 1/2	—	—	—	—	—	—	—	—	—	—
1 1/2 x 1 1/4 x 1	—	—	—	—	—	—	—	—	—	—
1 1/2 x 1 1/2 x 1/2	2.235	2.235	1.092	401209	0.901	1.401	2	1.895	1.026	0.24
1 1/2 x 1 1/2 x 3/4	2.24	2.243	1.323	401210	1.035	1.394	2.099	2.025	1.037	0.26
1 1/2 x 1 1/2 x 1	2.238	2.236	1.626	401211	1.152	1.4	2.225	2.13	1.026	0.285
1 1/2 x 1 1/2 x 1 1/4	—	—	—	401212	—	—	—	—	—	—
2 x 1 1/2 x 3/4	—	—	—	401238	—	—	—	—	—	—
2 x 1 1/2 x 1	—	—	—	401239	—	—	—	—	—	—
2 x 1 1/2 x 1 1/4	—	—	—	401240	—	—	—	—	—	—
2 x 2 x 1/2	2.728	2.736	1.096	401247	0.91	1.526	2.187	2.125	1.27	0.33
2 x 2 x 3/4	2.73	2.73	1.32	401248	1.032	1.525	2.635	2.175	1.28	0.35
2 x 2 x 1	2.734	2.734	1.628	401249	1.15	1.524	2.445	2.315	1.269	0.385
2 x 2 x 1 1/2	2.736	2.738	2.264	401251	1.152	1.177	2.46	2.513	1.273	0.48
2 1/2 x 2 1/2 x 1 1/2	—	—	—	401291	—	—	—	—	—	—
3 x 3 x 1 1/2	—	—	—	401337	—	—	—	—	—	—
3 x 3 x 2	4.018	4.026	2.75	401338	1.53	1.903	3.375	3.437	1.827	1.21
4 x 4 x 3	5.07	5.076	4.024	401422	1.904	—	—	4.269	2.365	2.345
6 x 6 x 4	7.574	7.574	5.26	401532	2.278	3.01	5.812	5.843	3.498	7.63
8 x 8 x 6	9.795	9.794	7.646	401585	3.136	4.121	7.687	7.75	4.53	15.295

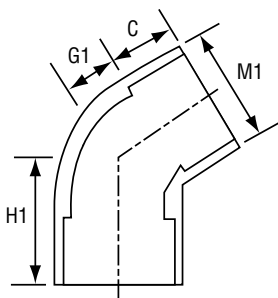
REDUCING TEES



S x S x FPT
REDUCING TEE
* Loose Bushed.

Nom. Pipe Size	Max. O.D. Dim			Univ. Part No.	S x S x FPT - REDUCING TEE					Approx. Wt. (lb)
	M1	M2	M3		T	C2	H1	H2	G	
1/2 x 1/2 x 3/4	—	—	—	402074	—	—	—	—	—	—
3/4 x 1/2 x 1/2	—	—	—	402094	—	—	—	—	—	—
3/4 x 1/2 x 3/4	—	—	—	402095	—	—	—	—	—	—
3/4 x 3/4 x 1/2	1.346	1.348	1.096	402101	0.91	—	1.486	—	0.576	0.115
3/4 x 3/4 x 1	—	—	—	—	—	—	—	—	—	—
1 x 1/2 x 1	—	—	—	—	—	—	—	—	—	—
1 x 3/4 x 1/2	—	—	—	402124	—	—	—	—	—	—
1 x 3/4 x 3/4	—	—	—	402125	—	—	—	—	—	—
1 x 3/4 x 1	—	—	—	—	—	—	—	—	—	—
1 x 1 x 1/2	1.664	1.664	1.104	402130	0.904	—	1.612	—	0.708	0.185
1 x 1 x 3/4	1.666	1.67	1.358	402131	1.038	—	1.735	—	0.697	0.195
1 x 1 x 1 1/4	—	—	—	—	—	—	—	—	—	—
1 1/4 x 1 x 1/2	—	—	—	402156	—	—	—	—	—	—
1 1/4 x 1 x 3/4	—	—	—	402157	—	—	—	—	—	—
1 1/4 x 1 x 1	—	—	—	402158	—	—	—	—	—	—
1 1/4 x 1 1/4 x 1/2	1.98	1.982	1.098	402166	0.906	—	1.805	—	0.899	0.195
1 1/4 x 1 1/4 x 3/4	1.977	1.978	1.318	402167	1.026	—	1.931	—	0.905	0.21
1 1/4 x 1 1/4 x 1	2.241	1.978	1.623	402168	1.152	—	2.051	—	0.899	0.24
1 1/2 x 1 1/4 x 1/2	—	—	—	402199	—	—	—	—	—	—
1 1/2 x 1 1/4 x 1	—	—	—	402202	—	—	—	—	—	—
1 1/2 x 1 1/2 x 1/2	2.234	2.234	1.096	402209	0.906	—	1.931	—	1.025	0.24
1 1/2 x 1 1/2 x 3/4	2.238	2.238	1.322	402210	1.028	—	2.057	—	1.029	0.265
1 1/2 x 1 1/2 x 1	2.241	2.241	1.627	402211	1.157	—	2.18	—	1.023	0.295
1 1/2 x 1 1/2 x 1 1/4	—	—	—	402212	—	—	—	—	—	—
2 x 1 1/2 x 3/4	—	—	—	—	—	—	—	—	—	—
2 x 1 1/2 x 1	—	—	—	402239	—	—	—	—	—	—
2x 1 1/2 x 1 1/4	—	—	—	—	—	—	—	—	—	—
2 x 2 x 1/2	—	—	—	402247*	—	—	—	—	—	—
2 x 2 x 3/4	2.73	2.73	1.319	402248	1.03	—	2.307	—	1.277	0.335
2 x 2 x 1	2.73	2.73	1.63	402249	1.157	—	2.423	—	1.266	0.39
2 x 2 x 1 1/2	2.737	2.737	2.247	402251	1.405	—	2.686	—	1.281	0.485
2 1/2 x 2 1/2 x 1 1/2	—	—	—	402291	—	—	—	—	—	—
3 x 3 x 1 1/2	—	—	—	—	—	—	—	—	—	—
3 x 3 x 2	—	—	—	402338	—	—	—	—	—	—
4 x 4 x 3	—	—	—	402422*	—	—	—	—	—	—
6 x 6 x 4	—	—	—	—	—	—	—	—	—	—
8 x 8 x 6	—	—	—	—	—	—	—	—	—	—

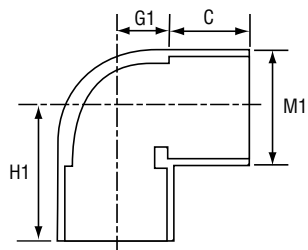
45° ELBOWS



S x S
45° ELBOW

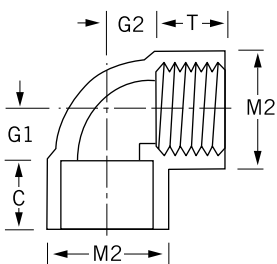
Nom. Pipe Size	Max O.D. Dim M	Univ. Part No.	S x S - 45° ELBOW			Approx. Wt. (lb)
			H1	C	G1	
½	1.093	417005	1.165	0.905	0.26	0.05
¾	1.32	417007	1.375	1.02	0.355	0.075
1	1.623	417010	1.5	1.148	0.352	0.115
1¼	1.982	417012	1.673	1.27	0.403	0.17
1½	2.234	417015	1.875	1.39	0.485	0.22
2	2.725	417020	1.755	1.165	0.59	0.305
2½	3.315	417025	2.245	1.77	0.475	0.6
3	3.99	417030	2.684	1.915	0.769	0.82
4	5.025	417040	3.065	2.045	1.02	1.33
6	7.37	417060	5.035	3.212	1.823	4.475
8	9.372	417080	6.218	4.023	2.195	7.1
10	12.0		8.110	5.500	2.610	
12	14.2		9.579	6.500	3.079	

90° ELBOWS



S x S
90° ELBOW

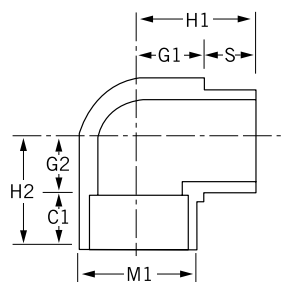
Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x S - 90° ELBOW			Approx. Wt. (lb)
			C	G1	C & G1	
1/2	1.112	406005	0.884	0.51	1.394	0.065
3/4	1.325	406007	0.993	0.579	1.572	0.085
1	1.635	406010	1.125	0.695	1.82	0.14
1 1/4	1.99	406012	1.274	0.898	2.172	0.26
1 1/2	2.225	406015	1.404	1.021	2.425	0.325
2	2.722	406020	1.523	1.281	2.804	0.51
2 1/2	3.34	406025	1.77	1.568	3.338	0.81
3	4.006	406030	1.92	1.831	3.751	1.14
4	5.05	406040	2.048	2.36	4.408	1.885
6	7.24	406060	3.043	3.502	6.545	4.55
8	9.415	406080	4.042	4.5	8.542	9.555
10	11.5		5.500	5.748	11.248	
12	13.6		6.500	6.886	13.386	



S x FPT
90° ELBOW

Nom. Pipe Size	Max O.D. Dim M2	Univ. Part No.	S x FPT - 90° ELBOW				Approx. Wt. (lb)
			T	C	G1	G2	
1/2	1.203	407005	0.903	0.901	0.301	0.303	0.085
3/4	1.428	407007	1.026	1.021	0.312	0.317	0.13
1	1.635	407010	1.162	1.152	0.712	0.722	0.155
1 1/4	1.998	407012	1.283	1.28	0.747	0.75	0.23
1 1/2	2.26	407015	1.401	1.4	1.024	1.023	0.32
2	2.745	406020	1.517	1.515	1.274	1.272	0.485

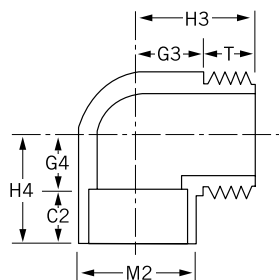
90° STREET ELBOWS



S x SPG

90° STREET ELBOW

Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x SPG - 90° STREET ELBOW						Approx. Wt. (lb)
			H1	S	G2	H2	G2	C1	
1 1/4	1.992	409012	2.574	1.301	1.264	2.176	0.896	1.28	0.275
1 1/2	2.225	409015	2.66	1.435	1.225	2.405	1.007	1.398	0.33
2	2.728	409020	3.04	1.562	1.478	2.803	1.267	1.536	0.515

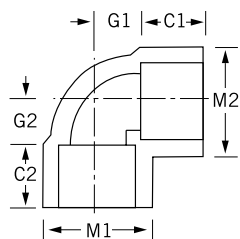


S x MPT

90° STREET ELBOW

Nom. Pipe Size	Max O.D. Dim M1	Univ. Part No.	S x MPT - 90° STREET ELBOW						Approx. Wt. (lb)
			H1	S	G2	H2	G2	C1	
1 1/4	1.990	410012	2.557	1.316	1.241	2.187	0.907	1.28	0.285
1 1/2	2.225	410015	2.337	1.171	1.166	2.405	1.002	1.403	0.335
2	2.728	410020	2.691	1.24	1.451	2.803	1.271	1.532	0.525

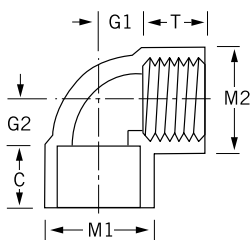
90° REDUCING ELBOWS



S x S

90° REDUCING ELBOW

Nom. Pipe Size	Max O.D. Dim		Univ. Part No.	S x S - 90° REDUCING ELBOW				Approx. Wt. (lb)
	M1	M2		C1	C2	G1	G2	
3/4 x 1/2	1.315	1.106	406101	0.754	0.784	0.556	0.556	0.075
1 x 1/2	1.67	1.142	406130	0.904	1.157	0.616	0.623	0.115
1 x 3/4	1.632	1.316	406131	0.781	0.954	0.532	0.53	0.115
1 1/4 x 1	—	—	406168	—	—	—	—	—

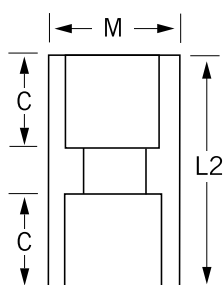


S x FPT

90° REDUCING ELBOW

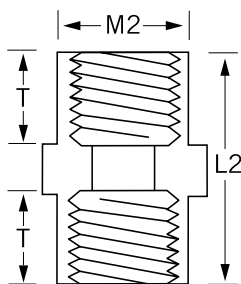
Nom. Pipe Size	Max O.D. Dim		Univ. Part No.	S x FPT - 90° REDUCING ELBOW				Approx. Wt. (lb)
	M1	M2		T	C	G1	G2	
3/4 x 1/2	1.348	1.098	407101	0.869	1.021	0.501	0.511	0.08
1 x 1/2	1.665	1.135	407130	0.908	1.148	0.637	0.63	0.12
1 x 3/4	1.665	1.355	407131	1.04	1.154	0.61	0.628	0.13
1 1/4 x 1	—	—	407168	—	—	—	—	—

COUPLINGS



S x S
COUPLING

* Fabricated parts made from
Schedule 40 Pipe

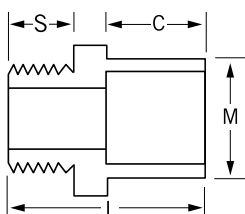


T x T
COUPLING

Nom. Pipe Size	Max O.D. Dim M	Univ. Part No.	S x S - COUPLING		Approx. Wt. (lb)
			L	C	
1/2	1.13	429005	1.91	0.9	0.045
3/4	1.357	429007	2.152	1.026	0.065
1	1.635	429010	2.38	1.128	0.095
1 1/4	1.996	429012	2.632	1.24	0.135
1 1/2	2.248	429015	2.875	1.355	0.17
2	2.725	429020	3.166	1.525	0.23
2 1/2	3.379	429025	3.748	1.778	0.485
3	4	429030	4.038	1.908	0.645
4	5.05	429040	4.76	2.288	1.06
6	7.252	429060	6.375	3.068	2.23
8	9.71	429080	9.438	4.556	5.195
10*	11.522	429100	15.125	6.438	10.04
12*	13.63	429120	16.875	6.437	15.6
14*	14.934	429140	19.813	8.188	21.185
16*	17.08	429160	19.875	8.125	27.889

Nom. Pipe Size	Max O.D. Dim M2	Univ. Part No.	T x T - COUPLING		Approx. Wt. (lb)
			L2	T	
1/2	1.31	430005	1.604	0.756	0.07
3/4	1.534	430007	1.634	0.753	0.09
1	1.842	430010	1.998	0.946	0.15

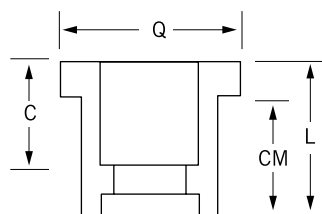
UNIONS (O-RING SEAT)



MPT x S
REDUCING MALE ADAPTER

Nom. Pipe Size	Max O.D. Dim M	Univ. Part No.	MPT x S - REDUCING MALE ADAPTER			Approx. Wt. (lb)
			C	S	L	
1/2 x 3/4	1.408	436074	1.025	0.753	2.004	0.06
1 x 3/4	1.414	436131	1.031	1.117	2.382	0.08
2 x 1 1/2	2.372	436251	1.404	1.213	2.924	0.25

REDUCING BUSHINGS

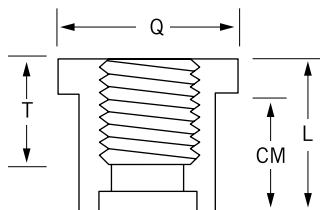


S x S
REDUCING BUSHING

* Loose Bushed.

Nom. Pipe Size	Univ. Part No.	S x S - REDUCING BUSHING				Approx. Wt. (lb)
		Q	C	CM	L	
1/2 x 3/4	—	1.156	0.781	0.906	1.031	0.03
3/4 x 1/2	437101	1.252	0.91	1.004	1.378	0.035
1 x 1/2	437130	1.64	0.902	1.135	1.5	0.075
1 x 3/4	437131	1.635	1.034	1.134	1.506	0.06
1 1/4 x 1/2	437166	2.07	1.89	1.252	1.62	0.14
1 1/4 x 3/4	437167	2.078	1.031	1.25	1.625	0.125
1 1/4 x 1	437168	2.074	1.156	1.26	1.634	0.1
1 1/2 x 1/2	437209	2.256	0.902	1.37	1.746	0.17
1 1/2 x 3/4	437210	2.252	1.015	1.37	1.745	0.175
1 1/2 x 1	437211	2.26	1.16	1.366	1.744	0.15
1 1/2 x 1 1/4	437212	2.262	1.293	1.385	1.76	0.1
2 x 1/2	437247	2.82	0.906	1.506	1.872	0.24
2 x 3/4	437248	2.82	1.15	1.506	1.876	0.26
2 x 1	437249	2.824	1.14	1.482	1.853	0.285
2 x 1 1/4	437250	2.826	1.282	1.506	1.89	0.245
2 x 1 1/2	437251	2.82	1.406	1.88	1.88	0.2
2 1/2 x 1 1/2*	—	—	—	—	—	—
2 1/2 x 3/4*	—	—	—	—	—	—
2 1/2 x 1*	—	—	—	—	—	—
2 1/2 x 1 1/4*	—	—	—	—	—	—
2 1/2 x 1 1/2*	—	—	—	—	—	—
2 1/2 x 2	437292	3.266	1.516	1.756	2.129	0.285
3 x 1	437335	3.904	1.147	1.898	2.272	0.61
3 x 1*	—	—	—	—	—	—
3 x 1 1/4*	—	—	—	—	—	—
3 x 1 1/2	437337	3.906	1.395	1.896	2.269	0.61
3 x 1 1/2*	—	—	—	—	—	—
3 x 2	437338	3.9	1.495	1.892	2.264	0.595
3 x 2 1/2	437339	3.9	1.763	1.883	2.249	0.425
4 x 2	437420	4.895	1.535	2.267	2.645	1.09
4 x 2 1/2	—	4.969	1.75	2.125	2.625	0.89
4 x 3	437422	4.9	1.89	2.272	2.6544	0.905
6 x 3	447530	7.303	1.894	0.076	3.69	2.915
6 x 4	437532	7.325	2.375	3.11	3.745	3.135
8 x 6	437585	9.313	3.084	4.077	4.462	5.495

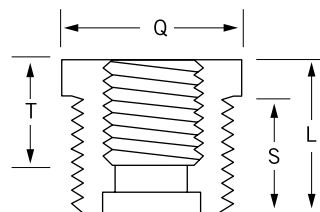
REDUCING BUSHING



S x FPT
REDUCING BUSHING

* Loose Bushed.

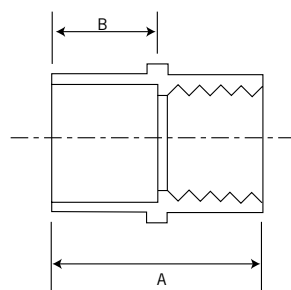
Nom. Pipe Size	Univ. Part No.	S x FPT - REDUCING BUSHING				Approx. Wt. (lb)
		Q	T	CM	L	
$\frac{3}{4} \times \frac{1}{2}$	438101	1.376	0.769	1.022	1.34	0.04
$1 \times \frac{1}{2}$	438130	1.686	0.763	1.175	1.492	0.08
$1 \times \frac{3}{4}$	438131	1.686	0.774	1.19	1.51	0.065
$1\frac{1}{4} \times \frac{1}{2}$	438166	2.07	0.702	1.244	1.642	0.13
$1\frac{1}{4} \times \frac{3}{4}$	438167	2.069	0.682	1.245	1.625	0.125
$1\frac{1}{4} \times 1$	438168	2.068	0.79	1.252	1.63	0.11
$1\frac{1}{2} \times \frac{1}{2}$	438209	2.255	0.679	1.363	1.745	0.16
$1\frac{1}{2} \times \frac{3}{4}$	438210	2.316	0.8	1.418	1.414	0.16
$1\frac{1}{2} \times 1$	438211	2.318	0.99	1.418	1.796	0.155
$1\frac{1}{2} \times 1\frac{1}{4}$	438212	2.325	1.284	1.403	1.778	0.105
$2 \times \frac{1}{2}$	438247	2.82	0.687	1.1488	1.87	0.23
$2 \times \frac{3}{4}$	438248	2.82	0.7	1.49	1.875	0.225
2×1	438249	2.82	0.826	1.498	1.879	0.235
$2 \times 1\frac{1}{4}$	438250	2.754	1.004	1.538	1.918	0.235
$2 \times 1\frac{1}{2}$	438251	2.75	0.992	1.535	1.916	0.205
$2\frac{1}{2} \times \frac{1}{2}^*$	—	—	—	—	—	—
$2\frac{1}{2} \times \frac{3}{4}^*$	—	—	—	—	—	—
$2\frac{1}{2} \times 1^*$	—	—	—	—	—	—
$2\frac{1}{2} \times 1\frac{1}{4}^*$	—	—	—	—	—	—
$2\frac{1}{2} \times \frac{1}{2}^*$	—	—	—	—	—	—
$3 \times 1^*$	—	—	—	—	—	—
$3 \times 1\frac{1}{4}^*$	—	—	—	—	—	—
$3 \times 1\frac{1}{2}^*$	—	—	—	—	—	—
3×2	438338	3.891	1.109	—	2.109	0.385



MPT x FPT
REDUCING BUSHING

Nom. Pipe Size	Univ. Part No.	MPT x FPT - REDUCING BUSHING				Approx. Wt. (lb)
		Q	L	T	S	
$\frac{3}{4} \times \frac{1}{2}$	439101	1.375	1.01	0.772	0.683	0.03
$1 \times \frac{1}{2}$	439130	1.685	1.125	0.758	0.808	0.055
$1 \times \frac{3}{4}$	439131	1.689	1.142	0.778	0.82	0.045

FEMALE ADAPTERS

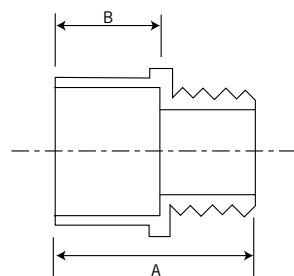


FEMALE ADAPTER

* Dimensions unchanged

Nom. Pipe Size	S x FPT - FEMALE ADAPTER	
	A	B
1/2	1.720	1.000
3/4	1.910	1.125
1	2.285	1.250
1 1/4	2.360	1.450
1 1/2	2.445	1.600
2	2.550	1.800
2 1/2	3.760	2.000
3	4.100	2.250
4	4.235	3.000
5	5.254	3.500
6	5.875	3.500
8	7.940*	4.000*

MALE ADAPTERS



MALE ADAPTER

* Dimensions unchanged

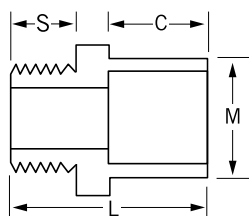
Nom. Pipe Size	S x MPT - MALE ADAPTER	
	A	B
1/2	1.810	1.000
3/4	2.080	1.125
1	2.470	1.250
1 1/4	2.620	1.450
1 1/2	2.910	1.600
2	2.990	1.800
2 1/2	3.740	2.000
3	3.870	2.250
4	4.374*	2.270*
5	5.250*	3.500*
6	5.875*	3.500*
8	7.000*	4.000*

IPEX is pleased to introduce its new line of Schedule 40 Female and Male Adapters.

These fittings will replace existing adapters.

These new fittings are NSF 14 certified and comply with ASTM D2466.

REDUCING MALE ADAPTERS

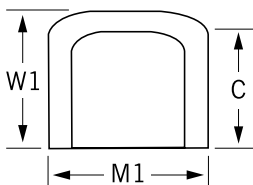


MPT x S

REDUCING MALE ADAPTER

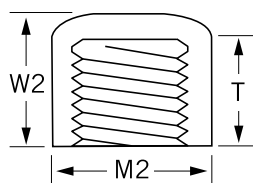
Nom. Pipe Size	Max O.D. Dim M	Univ. Part No.	MPT x S - REDUCING MALE ADAPTER			Approx. Wt. (lb)
			C	S	L	
½ x ¾	1.408	436074	1.025	0.753	2.004	0.06
1 x ¾	1.414	436131	1.031	1.117	2.382	0.08
2 x 1½	2.372	436251	1.404	1.213	2.924	0.25

CAPS AND PLUGS



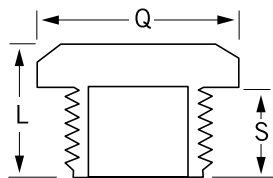
SOCKET CAP

Nom. Pipe Size	Univ. Part No.	SOCKET CAP			Approx. Wt. (lb)
		M1	C	W	
1/2	1.1	447005	0.902	1.302	0.03
3/4	1.32	447007	1.036	1.455	0.04
1	1.63	447010	1.16	1.66	0.07
1 1/4	1.994	447012	1.26	1.805	0.105
1 1/2	2.252	447015	1.121	1.704	0.125
2	2.727	447020	1.537	2.125	0.19
2 1/2	4.002	447030	1.92	2.854	0.535
3	5.045	447040	2.288	3.333	0.895
4	7.365	447060	3.06	4.607	2.06
6	9.384	447080	4.064	5.955	3.86



THREADED CAP

Nom. Pipe Size	Max O.D. Dim M	Univ. Part No.	THREADED CAP		Approx. Wt. (lb)
			T	W2	
1/2	1.293	448005	0.753	1.198	0.05
3/4	1.514	448007	0.762	1.258	0.065
1	1.822	448010	0.956	1.561	0.115
1 1/4	2.236	448012	1.008	1.513	0.155
1 1/2	2.485	448015	1.024	1.558	0.18
2	3.036	448020	1.052	1.708	0.285
2 1/2	3.974	448030	1.494	2.391	0.48
3	5.01	448040	1.596	2.667	0.78



MPT PLUG

Nom. Pipe Size	Univ. Part No.	MPT PLUG			Approx. Wt. (lb)
		Q	L	S	
1	450010	1.69	1.203	0.904	0.065
2	450020	2.812	1.44	1.012	0.210

1. The last assembled joint should be fully cured before filling the system with water.
2. All valves and air relief mechanisms should be opened at the ends and elevations. The system should be filled slowly; flow velocities should not exceed 1 foot per second. This will prevent surge, water hammer, and air entrapment.
3. Water flow should continue until all entrapped air is completely flushed out of every branch of the system. Maintain the 1ft/s velocity until every valve is checked. A rapidly fluctuating gauge needle during pressure rise may be an indication that entrapped air still remains in the system.

Systems should include the appropriate air relief and vacuum breaker valves to vent air during normal operation after installation. Entrapped air is a major cause of surge and burst failure in plastic piping systems.

4. After filling the system, do not pressurize until the responsible engineer is present to witness the test.

All personnel in the vicinity of the system should wear safety glasses and hard hats. High voltage electrical equipment should be shielded from a possible spray.

5. The piping system should be pressurized to 125% of its maximum design operating pressure. This pressure must not exceed 1.5 times the working pressure of the lowest rated component in the system, i.e. flanges, unions, thread parts, valves, etc.
6. The pressure test should not exceed 1 hour. This should provide enough time to inspect all joints for leaks. If leaks are found, pressure must be relieved and the leak repaired. The system should then be recharged and retested. Consult the factory if you have any questions concerning these steps.

DO NOT USE AIR OR INERT GAS TO TEST, THIS INCLUDES AIR-OVER-WATER BOOSTERS.

NOTES:

Unions meet ASTM F-1970.

Physical dimensions and tolerances for socket-type fittings meet the requirements of ASTM Standard D-2466.

All dimensions are in inches unless otherwise specified.

Dimensions are subject to change without notice. Contact factory for certification.

All IPEX products are guaranteed against defects resulting from faulty workmanship or materials. If any such product is found to be defective by reason of faulty workmanship or materials, upon written notice and return of the product, the defective product will be replaced by IPEX free of charge, including shipping charges for the replacement product. Claims for labour costs and other expenses required to replace such defective product or to repair any damage resulting from the use thereof will not be allowed by IPEX. Our liability is limited to the price paid for the defective product. This literature is published in good faith and is believed to be reliable. However, IPEX does not represent and/or warrant in any manner the information and suggestions contained in this brochure. Data presented is the result of laboratory tests and field experience.

Important Points to Consider

Xirtec140 PVC and Corzan CPVC plastic piping systems will give excellent, maintenance-free performance over many years use when the application and system design is correct for the product and installation is properly done. It is most important to know the physical properties and limitations of Xirtec140 PVC and Corzan CPVC plastic pipe when selecting these materials for an application and when designing the system for their use. These points should be taken into consideration in order to avoid problems caused by misapplication or poor installation.

- | | |
|--|--|
| 1. Impact resistance is lower than for metals. Therefore pipe must be protected from contact with hard and pointed objects. | 7. Protection from sunlight: Xirtec140 PVC and Corzan CPVC pipe compounds normally do not provide extended protection from the ultraviolet rays of the sun. Therefore, unless the material has been specially formulated to provide protection, the product must be protected from sunlight or after years of exposure, some loss of properties may occur. |
| 2. Expansion and contraction is greater than for metals. This can cause breaks and leaking joints if system design is not flexible to allow for movement. | 8. Water hammer (surge) in a Xirtec140 PVC or Corzan CPVC system can cause pipe, fittings, and valves to burst. Safeguards should be designed into the system to prevent excessive surge pressures. Liquid velocities should not exceed five feet per second maximum. Always bleed all trapped air from the system before testing and start up. |
| 3. Temperature-pressure relationship has to be taken into consideration. The pressure rating (tensile strength) of Xirtec140 PVC and Corzan CPVC decreases as temperature increases. | 9. Threaded joints are more prone to failure or leakage because of a decrease in wall thickness. Threaded joints have 50% of the pressure rating of Schedule 80 pipe. Schedule 40 pipe should never be threaded. |
| 4. Extremes of heat and cold can cause failure. Allowing liquids to freeze inside of Xirtec140 PVC and Corzan CPVC can cause the pipe and /or joints to crack. Heat beyond design limits can cause failures. | 10. Solvent cement welding can cause joint failure if application procedures are not carefully followed. |
| 5. Certain chemicals, especially petroleum distillates and derivatives, can cause failure. Every chemical should be verified and approved in the manufacturer's chemical resistance chart. | 11. Trenches for buried pipe should be free of rocks and debris that can rupture the pipe. Backfilling and top loading should be watched very carefully. |
| 6. Non-liquid transport is not recommended. Compressed air or gasses can surge to high pressures and cause failures which could endanger personnel. | 12. Pipe should not be bent in trenches or in above ground installations. Pipe and joints which are stressed reduce pressure rating and can cause failures. |

In every case, installation procedures should be carefully read and followed. It is very important to know the reputation and abilities of your installation crew or contractor. Professional engineering design of the system and close supervision of the assembly and installation procedures are recommended. Any questions concerning the application or installation of Xirtec140 PVC and Corzan CPVC piping products should be directed to the supplier, manufacturer, consultant, or the Plastic Piping Institute.

WARNING

IPEX does not recommend its rigid Xirtec140 PVC and Corzan CPVC product lines for use in air or compressed gas systems.

NOTES

NOTES

SALES AND CUSTOMER SERVICE

Canadian Customers call

Toll free: (866) 473-9462

U.S. Customers call

Toll free: (800) 463-9572

www.ipexinc.com

About IPEX

IPEX is a leading supplier of thermoplastic piping systems. We provide our customers with one of the world's largest and most comprehensive product lines. All IPEX products are backed by over 50 years of experience. With state-of-the-art manufacturing facilities and distribution centers across North America, the IPEX name is synonymous with quality and performance.

Our products and systems have been designed for a broad range of customers and markets. Contact us for information on:

- PVC, CPVC, PP, ABS, PEX and PE pipe and fittings (1/4" to 48")
- Industrial process piping systems
- Double containment systems
- Acid waste systems
- High purity systems
- Municipal pressure and gravity piping systems
- Plumbing and mechanical pipe systems
- Electrical systems
- Telecommunications and utility piping systems
- Irrigation systems
- Radiant heating systems

WARRANTY: All IPEX products are guaranteed against defects resulting from faulty workmanship or materials. If any such product is found to be defective by reason of faulty workmanship or materials, upon written notice and return of the product, the defective product will be replaced by IPEX free of charge, including shipping charges for the replacement product. Claims for labour costs and other expenses required to replace such defective product or to repair any damage resulting from the use thereof will not be allowed by IPEX. Our liability is limited to the price paid for the defective product. IPEX will not be bound by any warranty, other than above set forth, unless such warranty is in writing.

This literature is published in good faith and is believed to be reliable. However, IPEX does not represent and/or warrant in any manner the information and suggestions contained in this brochure. Data presented is the result of laboratory tests and field experience.

IPEX maintains a policy of ongoing product improvement. This may result in modification of features and/or specifications without notice.

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