

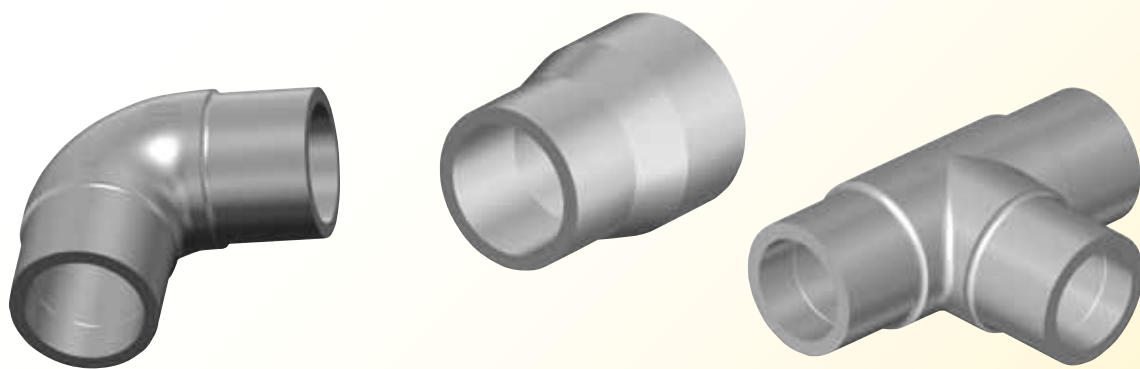
Elbows
Tees
Reducers
Caps

Flange Adapters
Back-Up Rings

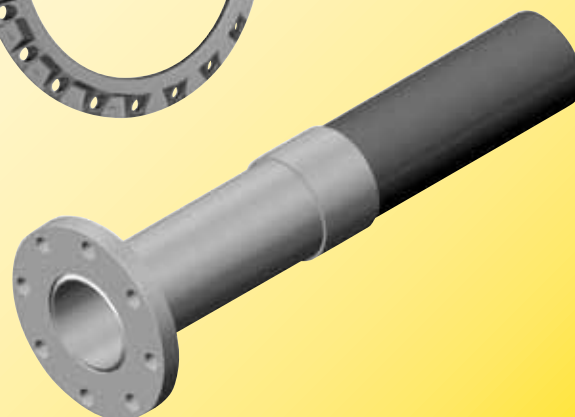
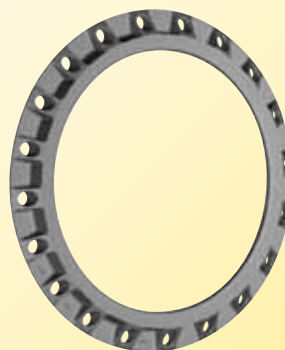
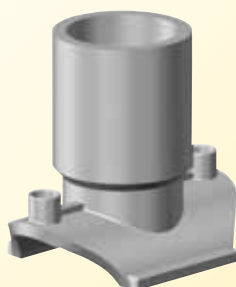
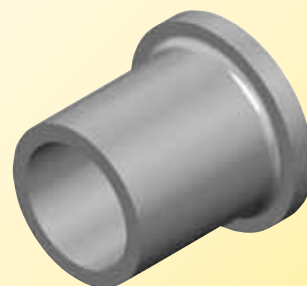
MJ Adapters
MJ Accessory Kits

Electrofusion:
Couplings
Branch Saddles

Transition Fittings



APPROVED



Factory Mutual (FM) Approved Products

The Right Connection

+GF+

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Factory Mutual: Overview



Factory Mutual (FM) Approved Products

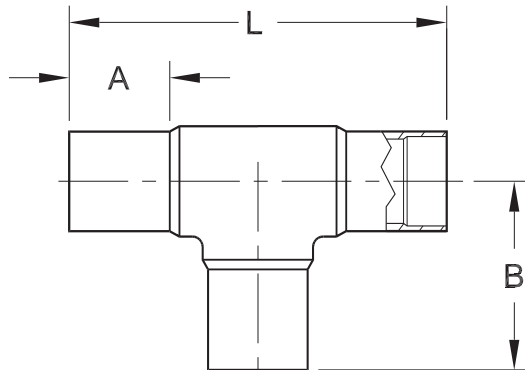
The Factory Mutual Research Corporation (FMRC) is a testing laboratory that is recognized in the U.S. and internationally for its work testing components for fire protection systems. Components for fire protection systems are tested to ensure that the products can pass an aggressive level of performance, safety and quality standards. Any Georg Fischer Central Plastics product that is labeled Factory Mutual (FM) symbol indicates that the product has met and/or exceeded the rigorous requirements of a fire protection system.

The manufacturing processes and the in-house testing facilities at GF Central Plastics have been inspected and approved by FMRC, and are audited frequently to ensure compliance and promote continuing improvement.



APPROVED

Factory Mutual: Butt Tee



BUTT TEE DIMENSIONS

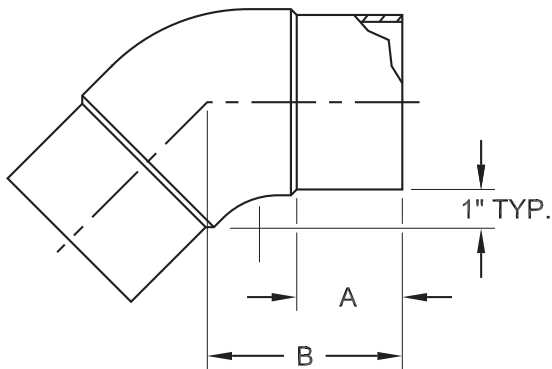
Nominal Size	A	B	L
4" IPS	2.90	5.60	11.20
6" IPS	4.34	9.00	18.00
8" IPS	6.00	12.00	24.00
10" IPS	6.00	13.25	26.50
12" IPS	7.50	15.88	31.76

Factory Mutual IPS Butt Tee

Size	SDR	Class	Part Number	Package Quantity	Weight
4"	DR 11	150	10004255	10	3.874
6"	DR 11	150	10004259	1	14.130
8"	DR 11	150	10004268	1	30.510
10"	DR 11	150	10004234	1	52.420
12"	DR 11	150	10004243	1	81.500
4"	DR 9	200	10002074	10	3.912
6"	DR 9	200	10004264	1	15.970
8"	DR 9	200	10004274	1	31.000
10"	DR 9	200	10004239	1	59.000
12"	DR 9	200	10004248	1	93.000

Call for availability of other sizes and dimensions.

Factory Mutual: 45° Butt Elbow



45° ELBOW DIMENSIONS

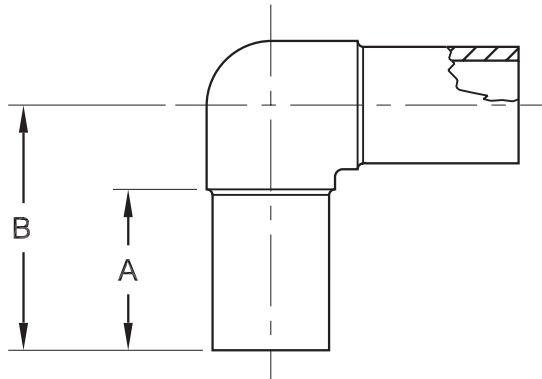
Nominal Size	A	B
4" IPS	3.00	5.00
6" IPS	4.38	7.00
8" IPS	6.00	11.00
10" IPS	6.00	13.25
12" IPS	7.50	15.75

Factory Mutual IPS 45° Butt Elbow

Size	SDR	Class	Part Number	Package Quantity	Weight
4"	DR 11	150	10004089	10	2.900
6"	DR 11	150	10004096	2	7.090
8"	DR 11	150	10004104	2	20.928
10"	DR 11	150	10004071	1	40.760
12"	DR 11	150	10004079	1	64.000
4"	DR 9	200	10004093	10	2.800
6"	DR 9	200	10004102	2	7.135
8"	DR 9	200	10004108	2	21.500
10"	DR 9	200	10004075	1	47.500
12"	DR 9	200	10004084	1	74.000

Call for availability of other sizes and dimensions.

Factory Mutual: 90° Butt Elbow



90° ELBOW DIMENSIONS

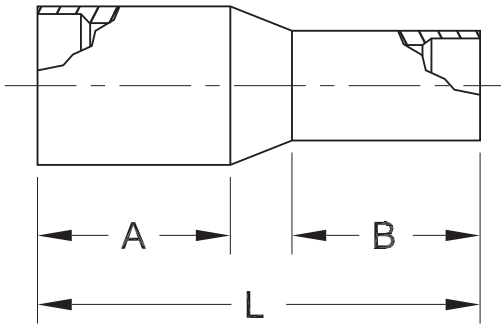
Nominal Size	A	B
4" IPS	3.00	5.75
6" IPS	4.38	9.00
8" IPS	6.00	12.00
10" IPS	6.00	13.25
12" IPS	7.50	15.88

Factory Mutual IPS 90° Butt Elbow

Size	SDR	Class	Part Number	Package Quantity	Weight
4"	DR 11	150	10004135	10	3.085
6"	DR 11	150	10004141	2	9.760
8"	DR 11	150	10004151	2	21.398
10"	DR 11	150	10004117	1	37.500
12"	DR 11	150	10004125	1	54.000
4"	DR 9	200	10004138	10	3.367
6"	DR 9	200	10004147	2	9.750
8"	DR 9	200	10004156	2	22.000
10"	DR 9	200	10004122	1	43.500
12"	DR 9	200	10004129	1	68.000

Call for availability of other sizes and dimensions.

Factory Mutual: Butt Reducer



BUTT REDUCER DIMENSIONS

Nominal Size	A	B	L
6" × 4"	4.22	3.75	9.13
8" × 6"	4.95	4.69	10.84
10" × 8"	6.00	6.00	16.00
12" × 10"	6.00	6.00	16.00

Factory Mutual IPS Butt Reducer

Size	SDR	Class	Part Number	Package Quantity	Weight
6" × 4"	DR 11	150	10004217	5	3.220
8" × 6"	DR 11	150	10004223	6	5.575
10" × 8"	DR 11	150	10007441	1	16.500
12" × 10"	DR 11	150	10007446	5	25.380
6" × 4"	DR 11	200	10004222	1	3.61
8" × 6"	DR 9	200	10004228	1	7.74
10" × 8"	DR 9	200	10002517	1	28.000
12" × 10"	DR 9	200	10002518	1	29.620

Call for availability of other sizes and dimensions.

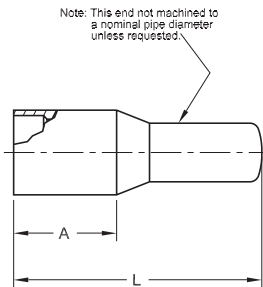
Factory Mutual: Butt Cap



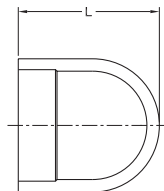
Style 2 shown here.



Style 2
4"-8"



Style 3
10"-12"



STYLE 2 END CAP DIMENSIONS

Nominal Size	A	B	L
4" IPS	3.00	*	7.75
8" IPS	5.14	*	12.41

STYLE 3 END CAP DIMENSIONS

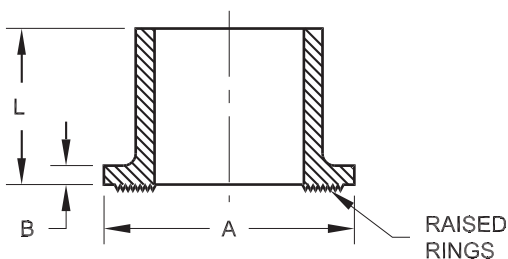
Nominal Size	A	B	L
10" IPS	*	*	11.38
10" IPS	*	*	11.38
12" IPS	*	*	13.88
12" IPS	*	*	13.88

Factory Mutual IPS Butt Cap

Size	SDR	Class	Part Number	Package Quantity	Weight
4"	DR 11	150	10004169	10	1.400
6"	DR 11	150	10004176	5	3.740
8"	DR 11	150	10004181	6	7.460
10"	DR 11	150	10004160	1	12.000
12"	DR 11	150	10004162	1	2.5
4"	DR 9	200	10004174	10	2.5
6"	DR 9	200	10004180	5	4.79
8"	DR 9	200	10004185	6	8.62
10"	DR 9	200	Call	-	-
12"	DR 9	200	Call	-	-

Call for availability of other sizes and dimensions.

Factory Mutual: Class 150 Flange Adapter



**CLASS 150 & CLASS 200
FLANGE ADAPTER DIMENSIONS**

Nominal Size	A	B	L
4" IPS	6.00	.54	6.00
6" IPS	8.50	0.78	8.00
8" IPS	10.63	1.00	11.00
10" IPS	12.75	1.28	12.00
12" IPS	15.00	1.54	12.00
14" IPS	17.50	1.50	12.00
16" IPS	20.00	1.75	12.00
18" IPS	21.38	1.88	12.00
20" IPS	23.47	2.27	12.00
24" IPS	27.85	2.82	12.00

Call for availability of other sizes and dimensions.

Factory Mutual IPS Flange Adapter

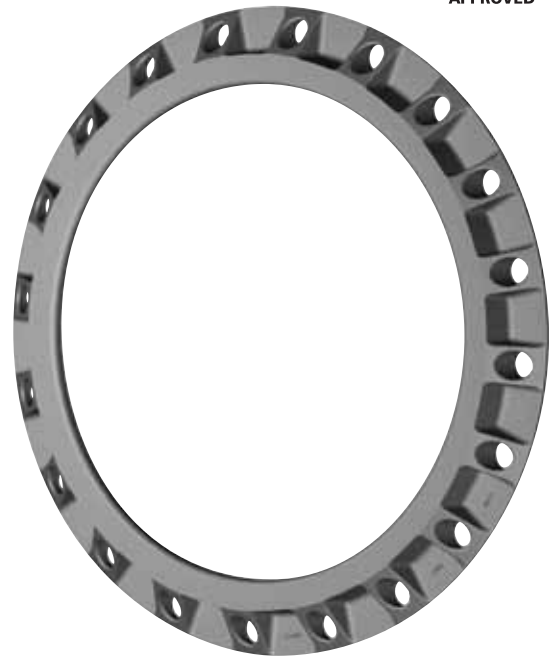
Size	SDR	Class	Part Number	Package Quantity	Weight
4"	DR 11	150	10004449	4	1.48
6"	DR 11	150	10004464	2	4.50
8"	DR 11	150	10004480	2	8.82
10"	DR 11	150	10004326	2	16.10
12"	DR 11	150	10004343	1	22.30
14"	DR 11	150	10004354	1	29.70
16"	DR 11	150	10004370	1	39.4
18"	DR 11	150	10004381	1	49.41
20"	DR 11	150	10004405	1	61.62
24"	DR 11	150	10004429	1	91.3

Factory Mutual: Class 200 Flange Adapter

Factory Mutual IPS Flange Adapter

Size	SDR	Class	Part Number	Package Quantity	Weight
4"	DR 9 / 9.3	200	10004456	4	1.81
6"	DR 9 / 9.3	200	10004474	2	4.95
8"	DR 9	200	10004491	2	9.04
10"	DR 9	200	10004337	2	15.00
12"	DR 9	200	10004351	1	26.20
14"	DR 9	200	10004363	1	36.01
16"	DR 9	200	10004380	1	38.13
18"	DR 9	200	10004391	1	48.00
20"	DR 9	200	10004414	1	45.00
24"	DR 9	200	10004438	1	61.00

Factory Mutual: IPS Back Up Rings



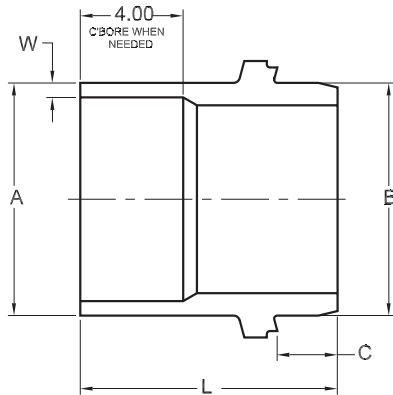
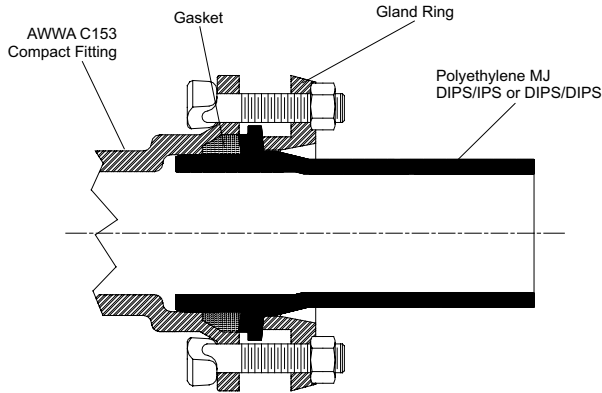
Factory Mutual
(FM) Products

Factory Mutual IPS Back Up Rings

Size	Class	Part Number	Package Quantity	Weight
4"	200	6975043	1	4.000
6"	200	6975045	1	6.000
8"	200	6975046	1	7.000
10"	200	6975047	1	12.000
12"	200	6975048	1	17.000
14"	150	6975049	1	26.000
16"	150	6975050	1	36.000
18"	150	6975051	1	37.000
20"	150	6975052	1	46.000
24"	150	6975054	1	62.000

Call for availability of other sizes and dimensions.

Factory Mutual: IPS MJ Adapter



MJ ADAPTER DIMENSIONS

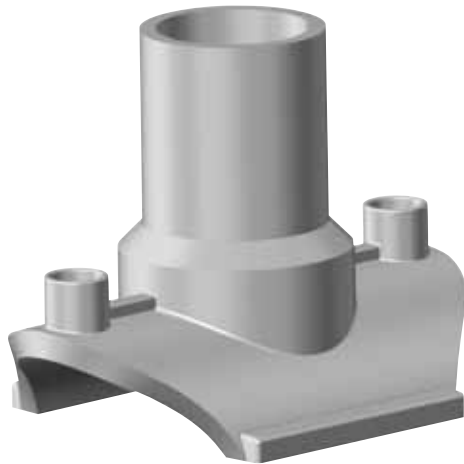
Nominal	A	B	C	L	W
4" IPS	4.500	4.800	2.34	10.25	DR 9 to 17
6" IPS	6.625	6.900	2.34	11.31	DR 9 to 17
8" IPS	8.625	9.050	2.34	11.94	DR 9 to 17
10" IPS	10.750	11.100	2.34	13.56	DR 9 to 17
12" IPS	12.750	13.200	2.00	13.00	DR 9 to 17
14" IPS	14.000	15.300	1.34	13.00	DR 9 to 17
16" IPS	16.000	17.400	1.34	13.00	DR 9 to 17
18" IPS	18.000	19.500	1.34	13.00	DR 9 to 17
20" IPS	20.000	21.600	3.34	16.00	DR 9 to 17
24" IPS	24.000	25.800	3.34	18.00	DR 9 to 17

Call for availability and pricing of Factory Mutual approved MJ adapter kits.

Factory Mutual IPS MJ Adapter

Size	SDR	Class	Part Number	Package Quantity	Weight
3"	DR 11	150	Call	-	-
4"	DR 11	150	6970400	1	3.24
6"	DR 11	150	6970402	1	6.64
8"	DR 11	150	6970404	1	10.53
10"	DR 11	150	6970406	1	21.60
12"	DR 11	150	10005233	1	27.87
14"	DR 11	150	Call	-	-
16"	DR 11	150	Call	-	-
18"	DR 11	150	Call	-	-
20"	DR 11	150	Call	-	-
24"	DR 11	150	Call	-	-
3"	DR 9	200	Call	-	-
4"	DR 9	200	6970401	1	3.010
6"	DR 9	200	6970403	1	7.61
8"	DR 9	200	6970405	1	10.53
10"	DR 9	200	10001979	1	16.00
12"	DR 9	200	10005241	1	29.00
14"	DR 9	200	Call	-	-
16"	DR 9	200	Call	-	-
18"	DR 9	200	Call	-	-
20"	DR 9	200	Call	-	-
24"	DR 9	200	Call	-	-

Factory Mutual: Electrofusion Branch Saddle

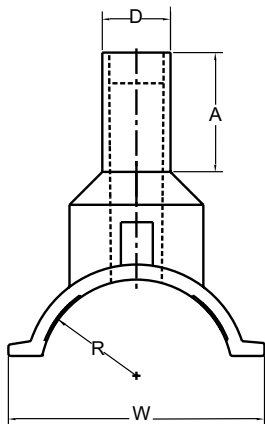


BRANCH SADDLE DIMENSIONS: 2" OUTLET

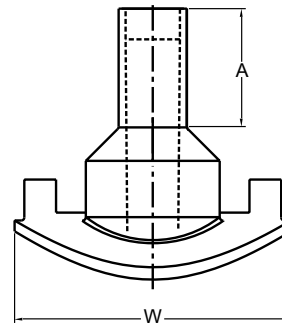
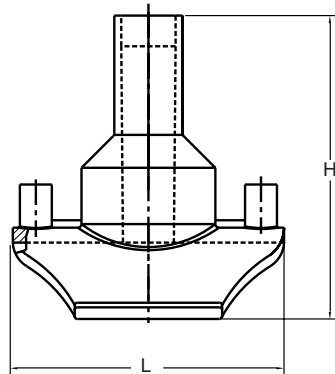
Nominal Base Size	R	A	D	H	W	L
4" IPS	2.250	3.28	2.375	7.27	6.26	6.62
6" IPS	3.312	3.28	2.375	8.43	8.68	6.62
8" IPS	4.312	3.28	2.375	5.29	6.75	*
10" IPS	5.375	3.28	2.375	5.53	6.75	*
12" IPS	6.375	3.28	2.375	5.70	6.75	*

BRANCH SADDLE DIMENSIONS: 4" OUTLET

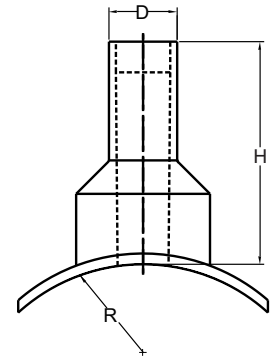
Nominal Base Size	R	A	D	H	W	L
4" IPS	2.920	3.85	4.500	6.00	7.00	8.38



4" IPS-6" IPS



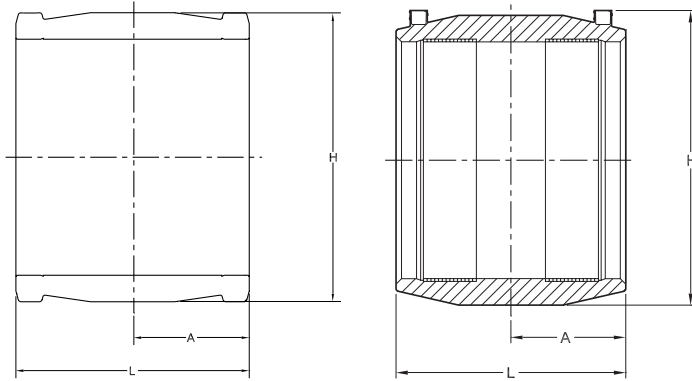
8" IPS



Factory Mutual IPS Electrofusion Branch Saddle

Size	Class	Part Number	Package Quantity	Weight
4" x 2"	150	10004533	30	1.080
6" x 2"	150	10004544	30	1.275
8" x 2"	150	10007712	30	0.925
4" x 4"	150	10004528	8	2.1
6" x 4"	150	10004538	8	3.72
4" x 2"	200	Call	-	-
6" x 2"	200	Call	-	-
8" x 2"	200	Call	-	-
4" x 4"	200	Call	-	-
6" x 4"	200	10004540	8	3.97

Factory Mutual: Electrofusion Coupling



Factory Mutual IPS Electrofusion Coupling

Size	Class	Part Number	Box	Weight
4"	200	10000360	10	1.67
6"	200	10000359	8	4.36
8"	200	10000361	4	8.45
10"	200	10000362	1	15.24
12"	200	10000363	1	23.9
14"	200	10000202	1	35.19
16"	200	10000204	1	47.1
18"	200	10000207	1	65.60
20"	200	10000210	1	91.00
24"	200	10000216	1	176.00

EF COUPLING DIMENSIONS

Nominal Size	H	L	A
4" IPS	6.51	6.14	3.00
6" IPS	8.70	8.35	4.10
8" IPS	11.20	9.48	4.70
10" IPS	13.41	10.50	5.00
12" IPS	15.84	11.50	5.50
14" IPS	17.24	12.13	6.06
16" IPS	19.65	13.54	6.77
18" IPS	22.13	14.96	7.48
20" IPS	24.57	16.46	8.23
24" IPS	30.59	19.50	9.75

Call for availability of other sizes and dimensions.

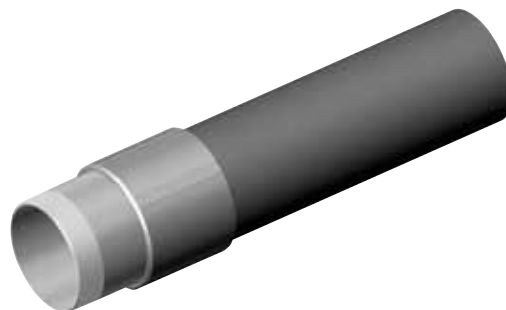
Factory Mutual: Thread End Transition Fittings



Protective sleeves are available on request.

Please call for sizes and prices.

Call for availability of other sizes and dimensions.



Factory Mutual Thread End Transition

Size	SDR	Class	Part Number	Standard Pack Box/Pallet	Weight
4" NPT × 4" IPS	DR 11	150	call	4/120	11.670
4" NPT × 4" IPS	DR 9	200	call	-	-
6" NPT × 6" IPS	DR 11	150	call	1/24	35.750
6" NPT × 6" IPS	DR 9	200	call	-	-

Factory Mutual
(FM) Products

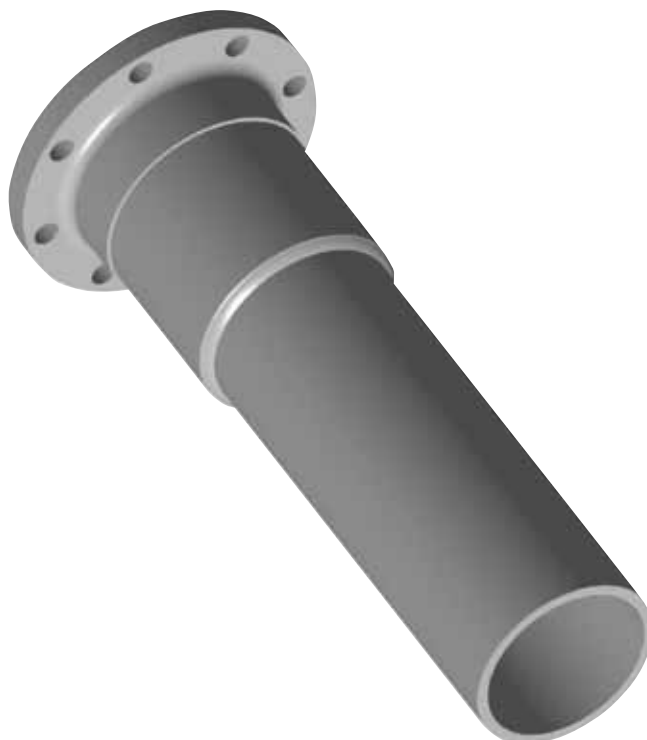
Factory Mutual: Weld End Transition Fittings



Factory Mutual Weld End Transition Fittings

Size	SDR	Class	Part Number	Standard Pack Box/Pallet	Weight
4" IPS × 4" IPS	DR 11	150	call	4/48	18.800
4" IPS × 4" IPS	DR 9	200	call	-	-
6" IPS × 6" IPS	DR 11	150	call	1/24	46.362
6" IPS × 6" IPS	DR 9	200	call	-	-
8" IPS × 8" IPS	DR 11	150	call	1/9	93.800
8" IPS × 8" IPS	DR 9	200	call	-	-
10" IPS × 10" IPS	DR 11	150	call	1/3	-
10" IPS × 10" IPS	DR 9	200	call	-	-
12" IPS × 12" IPS	DR 11	150	call	1/2	241.600
12" IPS × 12" IPS	DR 9	200	call	-	-
16" IPS × 16" IPS	DR 11	150	call	-	-
16" IPS × 16" IPS	DR 9	200	call	-	-

Factory Mutual: Flanged Transition Fittings



Factory Mutual Flanged Transition Fittings

Size	SDR	Class	Part Number	Standard Pack Box/Pallet	Weight
4" IPS x 4" IPS	DR 11	150	call	1 / 12	21.50
4" IPS x 4" IPS	DR 9	200	call	-	-
6" IPS x 6" IPS	DR 11	150	call	1 / 12	49.00
6" IPS x 6" IPS	DR 9	200	call	-	-
8" IPS x 8" IPS	DR 11	150	call	1 / 9	94.00
8" IPS x 8" IPS	DR 9	200	call	-	-
10" IPS x 10" IPS	DR 11	150	call	1 / 4	163.00
10" IPS x 10" IPS	DR 9	200	call	-	-
12" IPS x 12" IPS	DR 11	150	call	1 / 2	228.50
12" IPS x 12" IPS	DR 9	200	call	-	-

Protective sleeves are available on request.

Please call for sizes and prices.

Call for availability of other sizes and dimensions.