

Design-Flow[®] Industrial PE

Catalog 2017



Ready to install?



Connectra 28 Electric-Powered (EP) Butt Fusion Machine



MSA 340 Electrofusion Machine



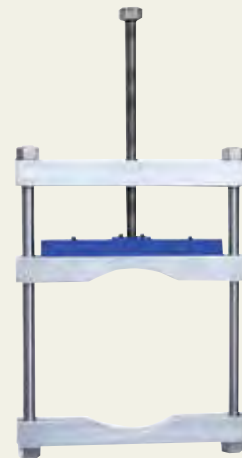
EF Multi-Clamp Kits and Liners



EF Under Clamps



EF Machined Rotary Scrapers



Pipe Re-Rounding Tools

Contact us about our welding equipment!

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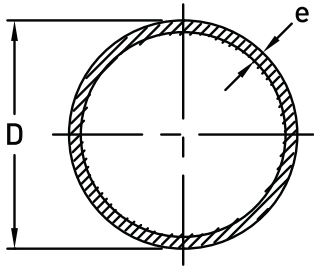
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EXAMPLE

Industrial Polyethylene Pipe

Design-Flow Industrial Grade PE4710 Pipe SDR 11 IPS - 20 Foot Lengths, Capped

Additional lengths available on special order



Size (inch)	SDR	Part Number	D (inch)	e (inch)	Lift Qty (ft)	PSI	Weight (lbs/ft)
2	11	360 031 975	2.375	0.216	1760.00	200	0.640
3	11	360 032 014	3.500	0.318	1000.00	200	1.390
4	11	360 031 941	4.500	0.409	580.00	200	2.310
6	11	360 032 015	6.625	0.602	260.00	200	5.000
8	11	360 032 034	8.625	0.784	200.00	200	8.470
10	11	360 032 016	10.750	0.977	80.00	200	13.160
12	11	360 061 251	12.750	1.159	80.00	200	18.510
14	11	360 032 017	14.000	1.273	60.00	200	22.320
16	11	360 032 018	16.000	1.455	60.00	200	29.150
18	11	360 061 563	18.000	1.636	40.00	200	36.890
20	11	360 061 564	20.000	1.818	40.00	200	45.540
22	11	360 061 565	22.000	2.000	40.00	200	55.100
24	11	360 061 566	24.000	2.182	40.00	200	65.580
26	11	360 061 567	26.000	2.364	20.00	200	76.960
28	11	360 061 573	28.000	2.545	20.00	200	89.260
30	11	360 061 574	30.000	2.727	20.00	200	102.470
32	11	360 061 575	32.000	2.909	20.00	200	116.580
36	11	360 061 576	36.000	3.273	20.00	200	147.550

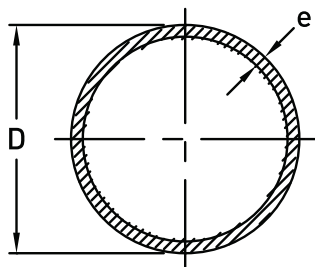
Design-Flow Industrial Grade PE4710 Pipe SDR 17 IPS - 20 Foot Lengths, Capped

Additional lengths available on special order

Size	SDR	Part Number	D (inch)	e (inch)	Lift Qty (ft)	PSI	Weight (lbs/ft)
2	17	360 060 228	2.375	0.140	1760.00	130	0.430
3	17	360 031 974	3.500	0.206	1000.00	130	0.940
4	17	360 031 968	4.500	0.265	580.00	130	1.550
6	17	360 031 967	6.625	0.390	260.00	130	3.360
8	17	360 061 577	8.625	0.507	200.00	130	5.690
10	17	360 031 976	10.750	0.632	80.00	130	8.830
12	17	360 032 277	12.750	0.750	80.00	130	12.430
14	17	360 061 578	14.000	0.824	60.00	130	14.980
16	17	360 061 256	16.000	0.941	60.00	130	19.570
18	17	360 032 212	18.000	1.059	40.00	130	24.770
20	17	360 032 065	20.000	1.176	40.00	130	30.580
22	17	360 061 579	22.000	1.294	40.00	130	37.000
24	17	360 061 234	24.000	1.412	40.00	130	44.030
26	17	360 061 580	26.000	1.529	20.00	130	51.670
28	17	360 061 581	28.000	1.647	20.00	130	59.930
30	17	360 061 582	30.000	1.765	20.00	130	68.800
32	17	360 061 583	32.000	1.882	20.00	130	78.280
36	17	360 061 584	36.000	2.118	20.00	130	99.070

Design-Flow PE4710 Pipe SDR7 IPS - 40 Foot Lengths

Additional lengths available on special order



Size	SDR	Part Number	D (inch)	e (inch)	Weight (lb)
2	7	360 030 506	2.375	0.339	0.950
3	7	360 030 524	3.500	0.500	2.060
4	7	360 030 545	4.500	0.643	3.400
6	7	360 030 571	6.625	0.946	7.370
8	7	360 030 625	8.625	1.232	12.500
10	7	360 030 679	10.750	1.536	19.420
12	7	360 030 733	12.750	1.821	27.310
14	7	360 030 787	14.000	2.000	32.930
16	7	360 030 811	16.000	2.286	43.010
18	7	360 030 865	18.000	2.571	54.430
20	7	360 060 907	20.000	2.857	67.200
22	7	360 030 949	22.000	3.143	81.320
24	7	360 030 991	24.000	3.429	96.770

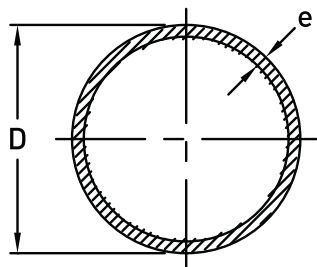
Design-Flow PE4710 Pipe SDR9 IPS - 40 Foot Lengths

Additional lengths available on special order

Size	SDR	Part Number	D (inch)	e (inch)	Weight (lb)
2	9	360 030 509	2.375	0.264	0.770
3	9	360 030 527	3.500	0.389	1.660
4	9	360 030 548	4.500	0.500	2.750
6	9	360 030 577	6.625	0.736	5.960
8	9	360 030 631	8.625	0.958	10.110
10	9	360 030 685	10.750	1.194	15.700
12	9	360 030 739	12.750	1.417	22.080
14	9	360 030 793	14.000	1.556	26.630
16	9	360 030 817	16.000	1.778	34.780
18	9	360 030 871	18.000	2.000	44.020
20	9	360 030 913	20.000	2.222	54.340
22	9	360 030 955	22.000	2.444	65.750
24	9	360 030 997	24.000	2.667	78.250
26	9	360 031 035	26.000	2.889	91.840
28	9	360 031 047	28.000	3.111	106.510
30	9	360 031 059	30.000	3.333	122.270
32	9	360 031 073	32.000	3.556	139.120

Design-Flow PE4710 Pipe SDR11 IPS - 40 Foot Lengths

Additional lengths available on special order



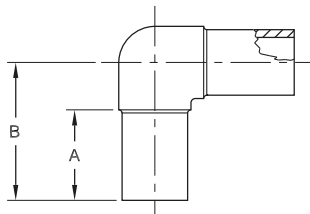
Size	SDR	Part Number	D (inch)	e (inch)	Weight (lb)
2	11	360 030 512	2.375	0.216	0.640
3	11	360 030 530	3.500	0.318	1.390
4	11	360 030 551	4.500	0.409	2.310
6	11	360 030 583	6.625	0.602	5.000
8	11	360 030 637	8.625	0.784	8.470
10	11	360 030 691	10.750	0.977	13.160
12	11	360 030 745	12.750	1.159	18.510
14	11	360 030 799	14.000	1.273	22.320
16	11	360 030 823	16.000	1.455	29.150
18	11	360 030 877	18.000	1.636	36.890
20	11	360 030 919	20.000	1.818	45.540
22	11	360 030 961	22.000	2.000	55.100
24	11	360 031 003	24.000	2.182	65.580
26	11	360 031 037	26.000	2.364	76.960
28	11	360 031 049	28.000	2.545	89.260
30	11	360 031 061	30.000	2.727	102.470
32	11	360 031 075	32.000	2.909	116.580
36	11	360 031 085	36.000	3.273	147.550

Design-Flow PE4710 Pipe SDR17 IPS - 40 Foot Lengths

Additional lengths available on special order

Size	SDR	Part Number	D (inch)	e (inch)	Weight (lb)
2	17	360 030 518	2.375	0.140	0.430
3	17	360 030 539	3.500	0.206	0.940
4	17	360 030 560	4.500	0.265	1.550
6	17	360 030 601	6.625	0.390	3.360
8	17	360 030 655	8.625	0.507	5.690
10	17	360 030 709	10.750	0.632	8.830
12	17	360 030 763	12.750	0.750	12.430
14	17	360 030 805	14.000	0.824	14.980
16	17	360 030 841	16.000	0.941	19.570
18	17	360 030 883	18.000	1.059	24.770
20	17	360 030 925	20.000	1.176	30.580
22	17	360 030 967	22.000	1.294	37.000
24	17	360 031 009	24.000	1.412	44.030
26	17	360 031 039	26.000	1.529	51.670
28	17	360 031 051	28.000	1.647	59.930
30	17	360 031 063	30.000	1.765	68.800
32	17	360 031 077	32.000	1.882	78.280
36	17	360 031 087	36.000	2.118	99.070

Industrial Polyethylene Fittings: Molded Butt Fusion Fittings



Design-Flow 90 Elbow Butt PE4710 SDR7 IPS - Molded

Size	SDR	Part Number	A (inch)	B (inch)	SP	Weight (lb)
2	7	360 003 514	2.81	4.50	10	0.816
3	7	360 019 890	3.00	5.13	10	1.874
4	7	360 019 897	3.00	5.75	10	3.748
6	7	360 019 901	4.38	9.00	2	10.803
8	7	360 019 905	6.00	12.00	2	25.000

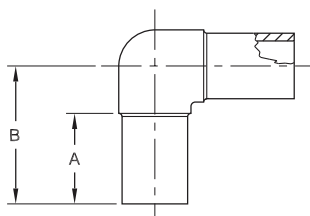
Design-Flow 90 Elbow Butt PE4710 SDR9/9.3 IPS - Molded

Size	SDR	Part Number	A (inch)	B (inch)	SP	Weight (lb)
¾	9	360 000 230	2.63	4.00	100	0.154
1	9	360 000 236	2.63	4.00	100	0.198
1¼	9	360 000 239	2.63	4.00	100	0.309
1½	9	360 000 243	2.63	4.00	80	0.375
2	9	360 000 020	2.81	4.50	10	0.683
3	9	360 000 021	3.00	5.13	10	2.116
4	9	360 000 281	3.00	5.75	10	3.616
6	9	360 000 295	4.38	9.00	2	9.965
8	9	360 000 309	6.00	12.00	2	24.010
10	9	360 000 255	6.00	13.25	1	43.500
12	9	360 000 266	7.50	15.88	1	63.010

Design-Flow 90 Elbow Butt PE 4710 SDR11 IPS - Molded

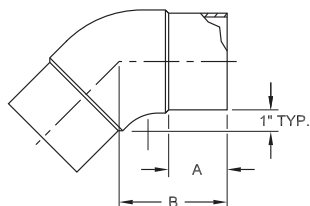
Size	SDR	Part Number	A (inch)	B (inch)	SP	Weight (lb)
¾	11	360 000 228	1.75	3.06	100	0.088
1	11	360 000 234	1.75	3.19	100	0.132
1¼	11	360 000 238	1.80	3.38	100	0.265
1½	11	360 000 241	2.33	4.02	80	0.331
2	11	360 000 040	2.81	4.68	10	0.661
3	11	360 000 041	3.16	5.99	10	1.631
4	11	360 029 251	3.87	6.90	10	3.241
6	11	360 000 043	4.64	9.18	2	7.848
8	11	360 000 044	6.33	11.95	2	17.240
10	11	360 000 045	6.00	13.25	1	35.803
12	11	360 000 046	7.50	15.88	1	59.701

Design-Flow 90 Elbow Butt PE4710 SDR17 IPS - Molded



Size	SDR	Part Number	A (inch)	B (inch)	SP	Weight (lb)
2	17	360 000 268	2.81	4.50	10	0.529
3	17	360 000 271	3.16	5.99	10	1.521
4	17	360 029 250	3.16	6.87	10	3.395
6	17	360 000 289	4.64	9.18	2	7.297
8	17	360 000 304	6.33	11.95	2	16.006
10	17	360 000 252	6.00	13.25	1	33.003
12	17	360 000 263	7.50	15.88	1	52.007

Design-Flow 45 Elbow Butt PE4710 SDR7 IPS - Molded



Size	SDR	Part Number	A (inch)	B (inch)	SP	Weight (lb)
2	7	360 000 187	2.64	3.23	10	1.323
3	7	360 019 860	3.13	5.00	10	1.852
4	7	360 019 864	3.00	5.00	10	3.307
6	7	360 019 866	4.38	7.00	2	8.995
8	7	360 019 871	6.00	11.00	2	23.810

Design-Flow 45 Elbow Butt PE710 SDR9/9.3 IPS - Molded

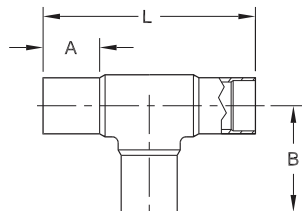
Size	SDR	Part Number	A (inch)	B (inch)	SP	Weight (lb)
3	9	360 000 019	3.13	5.00	10	1.808
4	9	360 000 203	3.00	5.00	10	2.800
6	9	360 000 216	4.38	7.00	2	7.430
8	9	360 000 227	6.00	11.00	2	24.008
10	9	360 000 175	6.00	13.25	1	42.990
12	9	360 000 186	7.50	15.75	1	67.991

Design-Flow 45 Elbow Butt PE4710 SDR11 IPS - Molded

Size	SDR	Part Number	A (inch)	B (inch)	SP	Weight (lb)
2	11	360 004 405	2.64	3.23	10	1.500
3	11	360 029 267	3.13	5.00	10	2.000
4	11	360 029 039	3.88	5.00	10	3.020
6	11	360 028 266	4.96	7.00	2	8.620
8	11	360 019 868	6.56	11.00	2	18.629
10	11	360 000 052	6.00	13.25	1	41.491
12	11	360 000 178	7.50	15.75	1	60.010

Design-Flow 45 Elbow Butt PE4710 SDR17 IPS - Molded

Size	SDR	Part Number	A (inch)	B (inch)	SP	Weight (lb)
2	17	360 019 854	2.64	3.23	10	1.500
3	17	360 000 189	3.13	5.00	10	1.521
4	17	360 029 042	3.90	7.10	10	2.535
6	17	360 029 044	4.96	9.00	2	8.047
8	17	360 028 219	6.56	11.45	2	17.725
10	17	360 000 173	6.00	13.25	1	38.008
12	17	360 000 184	7.50	15.75	1	58.996



Design-Flow Tee Butt PE4710 SDR7 IPS - Molded

Size	SDR	Part Number	A (inch)	B (inch)	L (inch)	SP	Weight (lb)
2	7	360 020 015	2.81	4.75	9.36	10	1.102
3	7	360 020 019	3.00	5.13	10.26	10	2.690
4	7	360 020 025	3.00	5.60	11.60	10	4.652
6	7	360 020 030	4.38	9.00	18.00	1	15.168
8	7	360 020 036	6.00	12.00	24.00	1	34.877

Design-Flow Tee Butt PE4710 SDR9/9.3 IPS - Molded

Size	SDR	Part Number	A (inch)	B (inch)	L (inch)	SP	Weight (lb)
2	9	360 000 038	2.81	4.75	9.36	10	0.904
3	9	360 000 523	2.90	5.13	10.26	10	2.315
4	9	360 000 534	3.00	5.60	11.20	10	4.453
6	9	360 000 547	4.38	9.00	18.00	1	15.102
8	9	360 000 560	6.00	12.00	24.00	1	34.106
10	9	360 000 501	6.00	13.25	26.50	1	58.996
12	9	360 000 513	7.50	15.88	31.75	1	91.007

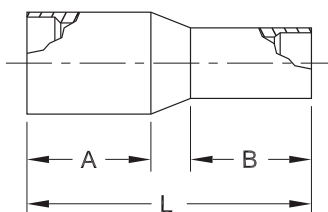
Design-Flow Tee Butt PE4710 SDR11 IPS - Molded

Size	SDR	Part Number	A (inch)	B (inch)	L (inch)	SP	Weight (lb)
¾	11	360 000 477	1.75	3.06	6.12	50	0.044
1	11	360 000 482	1.75	3.19	6.38	100	0.198
1¼	11	360 000 486	1.88	3.38	6.76	50	0.419
1½	11	360 000 487	2.30	4.25	8.50	40	0.419
2	11	360 000 514	2.54	4.61	9.28	10	0.904
3	11	360 000 519	3.16	5.99	11.98	10	2.205
4	11	360 029 052	3.90	7.30	14.60	8	4.762
6	11	360 000 538	4.89	9.00	18.00	1	10.560
8	11	360 000 551	6.19	12.00	24.00	1	29.895
10	11	360 000 053	6.00	13.25	26.50	1	50.001
12	11	360 000 504	7.50	15.88	31.75	1	77.007

Design-Flow Tee Butt PE4710 SDR17 IPS - Molded

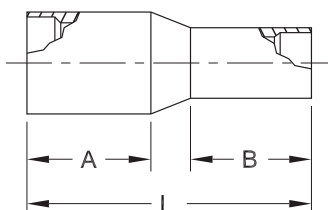
Size	SDR	Part Number	A (inch)	B (inch)	L (inch)	SP	Weight (lb)
2	17	360 000 517	2.54	4.61	9.28	10	0.992
3	17	360 000 521	3.16	5.99	11.98	10	2.094
4	17	360 029 305	3.90	7.30	14.60	8	4.390
6	17	360 000 542	4.89	9.00	18.00	1	13.492
8	17	360 000 555	6.19	12.00	24.00	1	22.994
10	17	360 000 499	6.00	13.25	26.50	1	46.495
12	17	360 000 510	7.50	15.88	31.75	1	71.011

Design-Flow Reducer Bushing Butt PE4710 SDR11 IPS - Molded



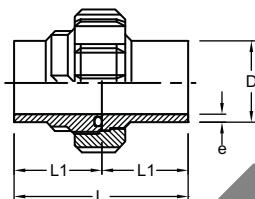
Size	SDR	Part Number	A (inch)	B (inch)	L (inch)	Weight (lb)
1¼x1	11	360 018 340	1.86	1.92	4.25	0.110
1½x1	11	360 062 336	2.50	2.28	5.75	0.154
3x2	11	360 003 439	3.20	2.50	6.65	1.000
4x2	11	360 003 440	2.75	2.75	7.16	1.000
4x3	11	360 000 069	3.13	3.13	8.62	1.323
6x3	11	360 018 370	5.12	3.94	11.42	2.000
6x4	11	360 000 066	4.00	4.00	8.00	3.042
8x6	11	360 000 068	4.00	4.00	8.00	7.011
10x6	11	360 018 393	6.00	6.00	12.00	14.595
10x8	11	360 003 453	6.00	6.00	12.00	13.977
12x8	11	360 029 046	6.00	6.00	12.00	18.298
12x10	11	360 003 455	6.00	6.00	15.00	20.194

Design-Flow Reducer Bushing Butt PE4710 SDR11 IPS - Molded



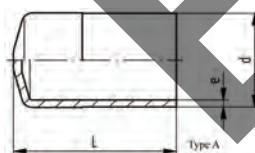
Size	SDR	Part Number	A (inch)	B (inch)	L (inch)	Weight (lb)
3x2	17	360 003 496	3.20	2.50	6.65	1.000
4x2	17	360 062 337	2.75	2.75	7.16	1.000
4x3	17	360 003 490	3.13	3.13	8.62	1.190
6x3	17	360 018 371	5.12	3.94	11.42	2.000
6x4	17	360 000 035	4.38	3.75	9.50	3.000
8x6	17	360 003 497	4.00	4.00	8.00	7.000
10x6	17	360 019 962	6.62	6.25	14.86	12.610
12x8	17	360 029 050	6.00	6.00	12.00	16.000
12x10	17	360 029 049	6.63	6.25	15.00	17.924

Union PE4710 Butt SDR11



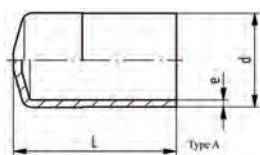
Size	SDR	Part Number	D (inch)	L (inch)	L1 (inch)	e (inch)	Weight (lb)
2	11	153 518 511	2.38	5.00	3.00	0.216	0.400
3	11	153 518 513	3.50	5.00	3.00	0.318	0.600
4	11	153 518 514	4.50	5.00	3.00	0.409	0.800

Design-Flow Caps PE4710 Butt SDR11 - Molded



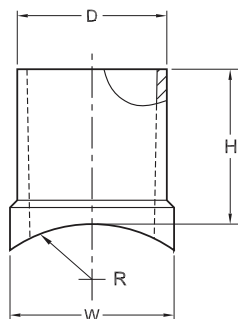
Size	SDR	Part Number	A (inch)	B (inch)	L (inch)	Weight (lb)
2	11	360 000 334	2.38	7.00	0.22	0.500
3	11	360 000 338	3.50	7.43	0.32	0.794
4	11	360 000 343	4.50	7.75	0.42	1.367
6	11	360 000 352	6.63	10.25	0.60	2.579
8	11	360 000 363	8.63	6.40	0.79	5.975
10	11	360 003 452	10.75	11.38	0.98	
12	11	360 003 454	12.75	13.88	1.16	19.643

Design-Flow Caps PE4710 Butt SDR17 - Molded



Size	SDR	Part Number	A (inch)	B (inch)	L (inch)	Weight (lb)
2	17		2.38	7.00	0.14	0.450
3	17	360 000 339	2.88	7.43	0.21	0.838
4	17	360 000 347	3.00	7.75	0.27	1.279
6	17	360 003 442	6.63	6.40	0.39	2.337
8	17	360 003 500	8.63	7.95	0.51	5.556
10	17	360 0015 444	10.75	11.38	0.63	
12	17	360 0015 451	12.75	13.88	0.75	18.000

Design-Flow Round Base Branch Saddle PE4710 Butt 2" Outlet SDR9.3



Size	SDR	Part Number	H (inch)	W (inch)	D (inch)	Weight (lb)
2	9.3	360 000 605	3.00	2.63	2.37	0.220
3	9.3	360 000 618	3.00	2.63	2.37	0.220
4	9.3	360 003 588	3.00	2.63	2.37	0.220

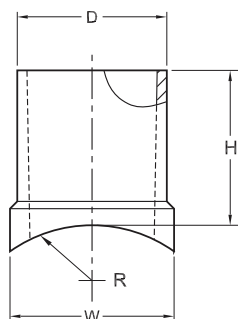
Design-Flow Round Base Branch Saddle PE4710 Butt 2" Outlet SDR11

Size	SDR	Part Number	H (inch)	W (inch)	D (inch)	Weight (lb)
2	11	360 003 581	3.00	2.63	2.37	0.265
3	11	360 000 572	3.00	2.63	2.37	0.220
4	11	360 000 586	3.00	2.63	2.37	0.220
6	11	360 000 601	3.00	2.63	2.37	0.220
8	11	360 000 614	3.00	2.63	2.37	0.220
10	11	360 003 583	3.00	2.63	2.37	0.198
12	11	360 003 049	3.00	2.63	2.37	0.198
14	11	360 003 586	3.00	2.63	2.37	0.198
16	11	360 003 587	3.00	2.63	2.37	0.220
18	11	360 003 589	3.00	2.63	2.37	0.220
24	11	360 003 565	3.00	2.63	2.37	0.198

Design-Flow Round Base Branch Saddle PE4710 Butt 2" Outlet SDR9.3

Size	SDR	Part Number	H (inch)	W (inch)	D (inch)	Weight (lb)
4	17	360 000 590	3.00	2.63	2.37	0.198

Design-Flow Round Base Branch Saddle PE4710 Butt 3" Outlet SDR11



Size	SDR	Part Number	H (inch)	W (inch)	D (inch)	Weight (lb)
4	11	360 000 592	4.00	3.88	3.50	0.683
6	11	360 000 607	4.00	3.88	3.50	0.617
8	11	360 000 620	4.00	3.88	3.50	0.639
10	11	360 003 590	4.00	3.88	3.50	0.639
12	11	360 003 592	4.00	3.88	3.50	0.617
14	11	360 003 594	4.00	3.88	3.50	0.639
16	11	360 003 595	4.00	3.88	3.50	0.705
18	11	360 000 596	4.00	3.88	3.50	0.595
20	11	360 003 597	4.00	3.88	3.50	0.705
24	11	360 003 566	4.00	3.88	3.50	0.617

Design-Flow Round Base Branch Saddle PE4710 Butt 3" Outlet SDR17

Size	SDR	Part Number	H (inch)	W (inch)	D (inch)	Weight (lb)
10	17	360 003 591	4.00	3.88	3.50	0.661
12	17	360 003 593	4.00	3.88	3.50	0.661

Design-Flow Round Base Branch Saddle PE4710 Butt 4" Outlet SDR9.3

Size	SDR	Part Number	H (inch)	W (inch)	D (inch)	Weight (lb)
4	9.3	360 000 595	4.00	4.80	4.50	1.168
16	9.3	360 003 603	4.00	4.80	4.50	1.102
26	9.3	360 000 571	4.00	4.80	4.50	1.609

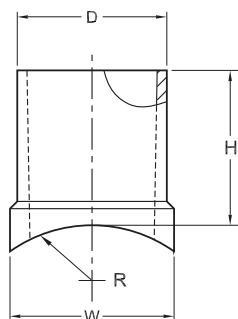
Design-Flow Round Base Branch Saddle PE4710 Butt 3" Outlet SDR11

Size	SDR	Part Number	H (inch)	W (inch)	D (inch)	Weight (lb)
6	11	360 000 609	4.00	4.80	4.50	0.948
8	11	360 000 622	4.00	4.80	4.50	1.102
10	11	360 003 599	4.00	4.80	4.50	1.080
12	11	360 000 600	4.00	4.80	4.50	1.257
14	11	360 003 602	4.00	4.80	4.50	1.036
16	11	360 003 604	4.00	4.80	4.50	1.168
18	11	360 003 605	4.00	4.80	4.50	1.058
20	11	360 003 606	4.00	4.80	4.50	0.992
24	11	360 000 567	4.00	4.80	4.50	2.006
30	11	360 000 580	4.00	4.80	4.50	2.006
36	11	360 003 583	4.00	4.80	4.50	2.006
48	11	360 000 597	4.00	4.80	4.50	1.984

Design-Flow Round Base Branch Saddle PE4710 Butt 4" Outlet SDR17

Size	SDR	Part Number	H (inch)	W (inch)	D (inch)	Weight (lb)
8	17	360 000 624	4.00	4.80	4.50	0.970

Design-Flow Round Base Branch Saddle PE4710 Butt 6" Outlet SDR11



Size	SDR	Part Number	H (inch)	W (inch)	D (inch)	Weight (lb)
8	11	360 000 626	5.13	6.81	6.62	0.529
10	11	360 003 607	5.13	6.81	6.62	3.042
12	11	360 003 608	5.13	6.81	6.62	2.822
14	11	360 003 610	5.13	6.81	6.62	3.197
16	11	360 003 613	5.13	6.81	6.62	2.888
18	11	360 003 615	5.13	6.81	6.62	2.844
20	11	360 003 616	5.13	6.81	6.62	2.998
22	11	360 000 563	5.13	6.81	6.62	2.998
24	11	360 000 568	5.13	6.81	6.62	2.844
30	11	360 000 581	5.13	6.81	6.62	2.998
36	11	360 000 584	5.13	6.81	6.62	2.998

Design-Flow Round Base Branch Saddle PE4710 Butt 6" Outlet SDR17

Size	SDR	Part Number	H (inch)	W (inch)	D (inch)	Weight (lb)
8	17	360 000 629	5.13	6.81	6.62	2.998
10	17	360 003 048	5.13	6.81	6.62	2.998
14	17	360 003 611	5.13	6.81	6.62	2.910
16	17	360 003 614	5.13	6.81	6.62	3.064

Design-Flow Round Base Branch Saddle PE4710 Butt 8" Outlet SDR9

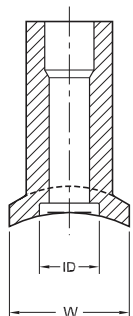
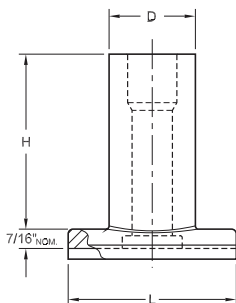
Size	SDR	Part Number	H (inch)	W (inch)	D (inch)	Weight (lb)
12	9	360 003 618	7.97	9.00	8.62	8.003

Design-Flow Round Base Branch Saddle PE4710 Butt 8" Outlet SDR11

Size	SDR	Part Number	H (inch)	W (inch)	D (inch)	Weight (lb)
10	11	360 003 617	7.97	9.00	8.62	7.209
12	11	360 003 619	7.97	9.00	8.62	7.319
14	11	360 003 620	7.97	9.00	8.62	7.363
16	11	360 003 621	7.97	9.00	8.62	7.893
18	11	360 003 622	7.97	9.00	8.62	7.033
20	11	360 000 562	7.97	9.00	8.62	7.077
24	11	360 000 569	7.97	9.00	8.62	6.900
36	11	360 000 585	7.97	9.00	8.62	7.606
48	11	360 000 599	7.97	9.00	8.62	7.496

Design-Flow Round Base Branch Saddle PE4710 Butt 12" Outlet SDR11

Size	SDR	Part Number	H (inch)	W (inch)	D (inch)	Weight (lb)
16	11	360 003 623	9.47	13.35	12.75	19.996
18	11	360 003 624	9.47	13.35	12.75	19.996
20	11	360 003 625	9.47	13.35	12.75	19.996
24	11	360 000 564	9.47	13.35	12.75	19.996
36	11	360 000 582	9.47	13.35	12.75	19.996
48	11	360 000 596	9.47	13.35	12.75	19.996



Design-Flow Service Saddle PE4710 Combo Outlet - 3/4" IPS Butt, 1/2" IPS Socket

Size	SDR	Part Number	D (inch)	H (inch)	L (inch)	W (inch)	ID (inch)	SP	Weight (lb)
1 1/4	11	360 002 246	1.05	2.83	2.83	2.00	0.79	100	0.132
1 1/2	11	360 002 257	1.05	2.83	2.83	2.00	0.79	100	0.110
2	11	360 002 276	1.05	2.83	2.83	2.00	0.79	100	0.110
3	11	360 002 298	1.05	2.83	2.44	2.00	0.79	100	0.088
4	11	360 002 319	1.05	2.83	2.44	2.00	0.79	100	0.088
6	11	360 002 336	1.05	2.83	2.44	2.00	0.79	100	0.110
8	11	360 002 351	1.05	2.83	2.44	2.00	0.79	100	0.088

Design-Flow Service Saddle PE4710 Combo Outlet - 1" IPS Butt, 3/4" IPS Socket

Size	SDR	Part Number	D (inch)	H (inch)	L (inch)	W (inch)	ID (inch)	SP	Weight (lb)
1 1/4	11	360 002 252	1.31	2.83	2.44	2.00	0.94	100	0.154
1 1/2	11	360 002 265	1.31	2.83	2.44	2.00	0.94	100	0.132
2	11	360 002 288	1.31	2.83	2.44	2.00	0.94	100	0.132
3	11	360 002 309	1.31	2.83	2.44	2.00	0.94	100	0.154
4	11	360 002 329	1.31	2.83	2.44	2.00	0.94	100	0.132
6	11	360 002 348	1.31	2.83	2.44	2.00	0.94	100	0.132
8	11	360 002 354	1.31	2.83	2.44	2.00	0.94	100	0.132

Design-Flow Service Saddle PE4710 Combo Outlet - 1 1/4" IPS Butt, 1" IPS Socket

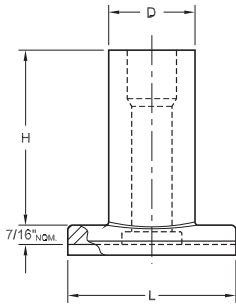
Size	SDR	Part Number	D (inch)	H (inch)	L (inch)	W (inch)	ID (inch)	SP	Weight (lb)
1 1/2	11	360 002 264	1.66	2.83	2.44	2.00	1.00	50	0.176
2	11	360 002 286	1.66	2.83	2.44	2.00	1.00	50	0.243
3	11	360 002 307	1.66	2.83	2.44	2.00	1.00	50	0.198
4	11	360 002 327	1.66	2.83	2.44	2.00	1.00	50	0.176
6	11	360 002 346	1.66	2.83	2.44	2.00	1.00	50	0.176

Design-Flow Service Saddle PE4710 Socket Outlet - 1" IPS

Size	SDR	Part Number	D (inch)	H (inch)	L (inch)	W (inch)	ID (inch)	SP	Weight (lb)
1 1/4	11	360 002 247	1.68	2.83	2.44	2.00	1.00	50	0.198
1 1/2	11	360 002 259	1.68	2.83	2.44	2.00	1.00	50	0.176
2	11	360 002 278	1.68	2.83	2.44	2.00	1.00	50	0.176
3	11	360 002 300	1.68	2.83	2.44	2.00	1.00	50	0.198
4	11	360 002 321	1.68	2.83	2.44	2.00	1.00	50	0.176
6	11	360 002 352	1.68	2.83	2.44	2.00	1.00	50	0.176

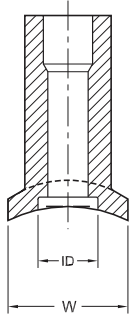
Design-Flow Service Saddle PE4710 Socket Outlet - 1 1/4" IPS

Size	SDR	Part Number	D (inch)	H (inch)	L (inch)	W (inch)	ID (inch)	SP	Weight (lb)
2	11	360 002 284	2.45	2.16	2.94	2.37	1.37	50	0.331
3	11	360 002 304	2.45	2.16	2.94	2.37	1.37	50	0.331
4	11	360 002 325	2.45	2.16	2.94	2.37	1.37	50	0.331
6	11	360 002 343	2.45	2.16	2.94	2.37	1.37	50	0.309



Design-Flow Service Saddle PE4710 Socket Outlet - 1 1/4" IPS

Size	SDR	Part Number	D (inch)	H (inch)	L (inch)	W (inch)	ID (inch)	SP	Weight (lb)
1 1/4	9.3	360 002 245	1.05	1.81	2.94	1.76	0.79	100	0.132
1 1/2	9.3	360 002 255	1.05	1.81	2.94	1.76	0.79	100	0.132
2	9.3	360 002 275	1.05	1.81	2.94	1.76	0.79	100	0.132
3	9.3	360 002 297	1.05	1.81	2.94	1.76	0.79	100	0.132
4	9.3	360 002 318	1.05	1.81	2.94	1.76	0.79	100	0.066



Design-Flow Service Saddle PE7410 Butt Outlet - 3/4" IPS

Size	SDR	Part Number	D (inch)	H (inch)	L (inch)	W (inch)	ID (inch)	SP	Weight (lb)
1 1/4	11	360 002 244	1.05	1.81	2.44	1.73	0.66	100	0.088
1 1/2	11	360 002 253	1.05	1.81	2.44	1.73	0.66	100	0.044
2	11	360 002 274	1.05	1.81	2.44	1.73	0.66	100	0.066
3	11	360 001 296	1.05	1.81	2.44	1.73	0.66	100	0.044
4	11	360 002 317	1.05	1.81	2.44	1.73	0.66	100	0.066

Design-Flow Service Saddle PE4710 Butt Outlet - 1" IPS

Size	SDR	Part Number	D (inch)	H (inch)	L (inch)	W (inch)	ID (inch)	SP	Weight (lb)
1 1/4	9.3	360 002 251	1.31	1.81	1.73	1.73	0.88	100	0.176
1 1/2	9.3	360 002 262	1.31	1.81	1.73	1.73	0.88	100	0.176
2	9.3	360 002 282	1.31	1.81	1.73	1.73	0.88	100	0.176
3	9.3	360 002 302	1.31	1.81	1.73	1.73	0.88	100	0.176
4	9.3	360 002 324	1.31	1.81	1.73	1.73	0.88	100	0.176

Design-Flow Service Saddle PE4710 Butt Outlet - 1" IPS

Size	SDR	Part Number	D (inch)	H (inch)	L (inch)	W (inch)	ID (inch)	SP	Weight (lb)
1 1/4	11	360 002 250	1.31	1.81	1.73	1.73	0.88	100	0.066
1 1/2	11	360 001 398	1.31	1.81	1.73	1.73	0.88	100	0.075
2	11	360 002 280	1.31	1.81	1.73	1.73	0.88	100	0.066
3	11	360 002 301	1.31	1.81	1.73	1.73	0.88	100	0.066
4	11	360 002 322	1.31	1.81	1.73	1.73	0.88	100	0.066
6	11	360 002 341	1.31	1.81	1.73	1.73	0.88	100	0.066

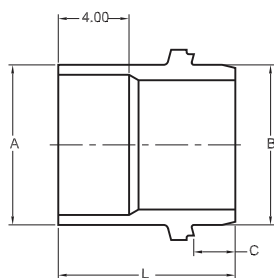
Design-Flow Service Saddle PE4710 Butt Outlet - 1 1/2" IPS

Size	SDR	Part Number	D (inch)	H (inch)	L (inch)	W (inch)	ID (inch)	SP	Weight (lb)
2	9.3	360 002 287	1.90	2.97	2.13	2.13	1.62	30	0.132
3	9.3	360 002 308	1.90	2.97	2.13	2.13	1.62	30	0.132
4	9.3	360 002 328	1.90	2.97	2.13	2.13	1.62	30	0.132
6	9.3	360 002 347	1.90	2.97	2.13	2.13	1.62	30	0.132

Design-Flow Service Saddle PE4710 Butt Outlet - 1 1/4" IPS

Size	SDR	Part Number	D (inch)	H (inch)	L (inch)	W (inch)	ID (inch)	SP	Weight (lb)
8	11	360 002 353	1.66	3.69	2.44	2.00	1.05	50	0.154
10	11	360 002 267	1.66	3.69	2.44	2.00	1.05	50	0.154

Design-Flow MJ Adaptor PE4710 IPS SDR11



Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	L (inch)	SP	Weight (lb)
2	11	360 017 705						0.710
3	11	360 003 462	3.50	3.90	2.25	9.00	2	2.116
4	11	360 003 464	4.50	4.80	2.25	10.25	4	3.395
6	11	360 022 242	6.62	6.90	2.25	11.31	4	6.570
8	11	360 003 467	8.62	9.08	2.25	12.00	1	11.199
10	11	360 004 432	10.75	11.10	2.25	13.56	1	17.924
12	11	360 003 483	12.75	13.20	2.25	13.00	1	22.994
14	11	360 017 783	14.00	15.30	1.34	13.00	1	33.861
16	11	360 017 791					1	48.281
18	11	360 017 799	18.00	19.50	1.34	13.00	1	66.322
20	11	360 017 813					1	82.001

Design-Flow MJ Adaptor PE4710 IPS SDR11 - With Stiffener

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	L (inch)	SP	Weight (lb)
2	11	360 017 704						0.710
3	11	360 022 236	3.50	3.90	2.25	9.00	2	2.116
4	11	360 022 238	4.50	4.80	2.25	10.25	4	3.395
6	11	360 022 243	6.62	6.90	2.25	11.31	4	6.570
8	11	360 003 506	8.62	9.08	2.25	12.00	1	11.199
10	11	360 022 231	10.75	11.10	2.25	13.56	1	17.924
12	11	360 022 235	12.75	13.20	2.25	13.00	1	22.994
14	11	360 017 782	14.00	15.30	1.34	13.00	1	33.861
16	11	360 017 790					1	48.281
18	11	360 017 798	18.00	19.50	1.34	13.00	1	66.322
20	11	360 017 806					1	82.001

Design-Flow MJ Adaptor PE4710 IPS SDR17

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	L (inch)	SP	Weight (lb)
3	17	360 017 717	3.50	3.96	2.25	9.00	2	1.870
4	17	360 022 239	4.50	4.80	2.25	10.25	4	2.910
6	17	360 029 098	6.62	6.90	2.25	11.31	4	5.660
8	17	360 029 103	8.62	9.05	2.25	12.00	1	10.000
10	17	360 022 232	10.75	11.10	2.25	13.56	1	15.800
12	17	360 004 433	12.75	13.20	2.25	13.00	1	21.200
14	17	360 029 035	14.00	15.30	1.34	13.00	1	34.660
18	17	360 028 644	18.00	19.50	1.34	13.00	1	64.830
24	17	360 062 346	24.00	25.80	1.34	18.00	1	124.000
36	17	360 062 347					1	

Design-Flow MJ Adaptor PE4710 IPS SDR17 - With Stiffener

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	L (inch)	SP	Weight (lb)
3	17	360 001 923	3.50	3.96	2.25	9.00	2	1.870
4	17	360 029 093	4.50	4.80	2.25	10.25	4	2.910
6	17	360 001 959	6.62	6.90	2.25	11.31	4	5.660
8	17	360 029 104	8.62	9.05	2.25	12.00	1	10.000
10	17	360 001 793	10.75	11.10	2.25	13.56	1	15.800
12	17	360 001 813	12.75	13.20	2.25	13.00	1	21.200
14	17	360 017 784	14.00	15.30	1.34	13.00	1	34.660
18	17	360 017 800	18.00	19.50	1.34	13.00	1	64.830
24	17	360 017 816	24.00	25.80	1.34	18.00	1	124.000
36	17	360 017 823					1	248.534



Design-Flow MJ Accessory Kit - With Ductile Iron Gland Ring, IPS/DIPS

Size	Part Number	# of Bolts	SP	Weight (lb)
3	360 000 664	4	1	5.952
4	360 000 665	4	1	7.804
6	360 001 775	6	1	12.181
8	360 003 513	6	1	
10	360 000 657	8	1	18.980
12	360 000 658	8	1	22.154



Design-Flow MJ Accessory Kit - Without Gland Ring, IPS/DIPS

Size	Part Number	# of Bolts	SP	Weight (lb)
14	360 000 659	10	1	14.136
16	360 000 660	12	1	16.541
18	360 000 661	12	1	16.685
20	360 000 662	14	1	19.696
24	360 000 663	16	1	22.436



Design-Flow MJ Accessory Kit - Carbon Steel Gland Ring, IPS/DIPS

Size	Part Number	# of Bolts	SP	Weight (lb)
14	360 000 652	10	1	47.995
16	360 000 653	12	1	54.800
18	360 000 654	12	1	66.125
20	360 000 655	14	1	79.505
24	360 000 656	16	1	108.002

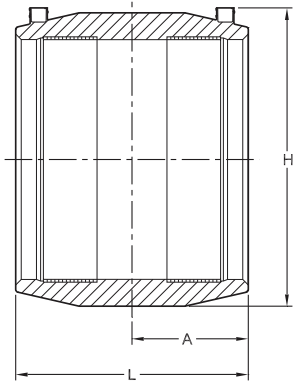


Design-Flow MJ Accessory Kit - Ductile Iron Gland Ring, IPS/DIPS

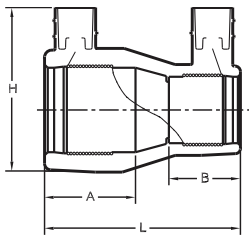
Size	Part Number	# of Bolts	SP	Weight (lb)
14	360 000 072	10	1	
16	360 000 073	12	1	
18	360 000 074	12	1	
20	360 000 075	14	1	
24	360 000 076	16	1	

Electrofusion Fittings

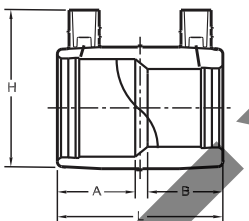
Electrofusion Coupler PE4710 - SDR 11/17



Size	Part Number	H (inch)	L (inch)	A (inch)	Weight (lb)
1/2	360 000 885	2.15	2.98	1.420	0.132
3/4	360 000 889	2.48	3.46	1.73	0.220
1	360 000 893	2.63	3.46	1.73	0.132
1.5	360 000 899	3.36	4.33	2.17	0.331
2	360 000 920	3.78	4.72	2.36	0.375
3	360 000 933	5.18	5.59	2.72	1.168
4	360 000 936	6.51	6.14	3.00	1.676
6	360 000 939	8.70	8.35	4.10	4.497
8	360 000 944	11.20	9.48	4.70	8.444
10	360 000 902	13.41	10.50	5.00	15.741
12	360 000 905	15.84	11.50	5.50	23.104
14	360 000 909	17.24	12.13	6.06	35.186
16	360 000 913	19.65	13.54	6.77	47.091
18	360 000 917	22.13	14.96	7.48	65.610
20	360 000 924	24.57	16.46	8.23	91.007
22	360 000 926	27.21	17.95	8.98	117.991
24	360 000 930	30.59	19.50	9.75	177.009
26	360 000 932	30.59	19.50	9.75	155.007



STYLE #1

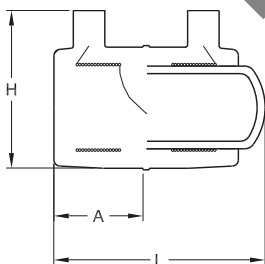


STYLE #2

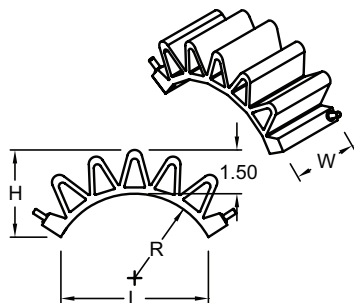
Electrofusion Reducer PE4710 - Molded

Size	Part Number	H (inch)	L (inch)	A (inch)	B (inch)	SP	Weight (lb)
3/4 x 1/2	360 021 360	2.50	3.28	1.25	1.470	40	0.132
1 x 1/2	360 001 071	2.60	3.28	1.46	1.530	30	0.154
1 x 3/4	360 001 073	2.63	3.28	1.42	1.430	30	0.198
1 1/4 x 1	360 001 081	3.00	3.71	1.88	1.570	40	0.309
2 x 1 1/4	360 021 371					25	0.639

Electrofusion Cap PE4710



Size	Part Number	A (inch)	L (inch)	H (inch)	Weight (lb)
3/4	360 000 860	1.36	3.52	2.32	0.220
1	360 000 862	1.57	3.82	2.56	0.220
1 x 1/4	360 000 866	1.82	5.13	3.00	0.353
2	360 000 869	2.09	4.94	3.82	0.595
3	360 000 871	2.72	10.30	5.18	2.138
4	360 000 874	3.00	10.89	6.51	3.064
6	360 000 876	4.10	14.71	8.70	8.951
8	360 000 879	4.70	15.61	11.20	7.011
12	360 000 868	5.75	17.68	15.70	23.900

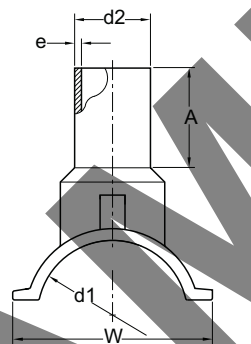


Electrofusion Flex Restraint Fitting

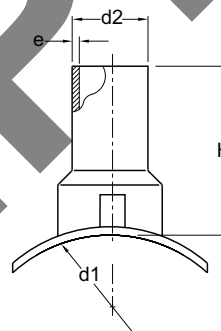
Size	Part Number	H (inch)	W (inch)	L (inch)	Weight (lb)
6-36	360 000 070	2.91	2.56	4.92	0.419

Electrofusion Branch Saddle SDR11

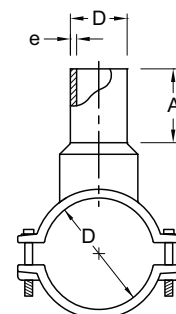
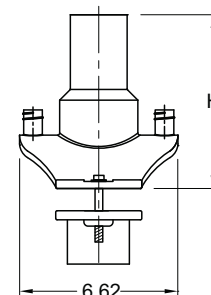
Size	SDR	Part Number	A (inch)	D (inch)	H (inch)	W (inch)	L (inch)	Style	Weight (lb)
2×2	11	360 000 759	3.28	2.50	3.59	3.590	6.63	3	0.899
3×2	11	360 000 763	3.28	2.50	4.60	4.600	6.63	3	0.970
4×2	11	360 000 772	3.28	2.50	6.26	6.260	6.63	3	1.135
6×2	11	360 000 780	3.28	2.50	8.68	8.680	6.63	3	2.000
8×2	11	360 000 785	3.28	2.50	5.29	6.750	6.63	3	1.041
10×2	11	360 000 741	3.28	2.50	5.56	6.750	6.63	3	1.219
12×2	11	360 000 751	3.28	2.50	5.73	6.750	6.63	3	1.135



Bottom Clamp
STYLE 1



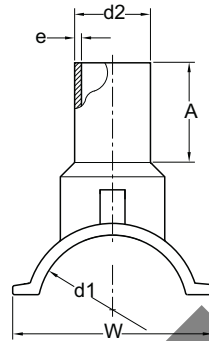
Top Load
STYLE 2



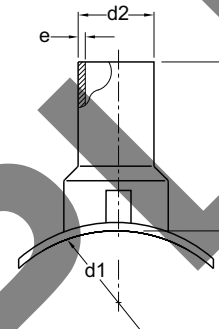
Under Clamp
STYLE 3

Electrofusion Branch Saddle SDR11

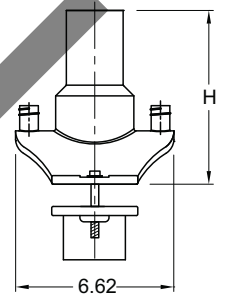
Size	SDR	Part Number	A (inch)	D (inch)	H (inch)	W (inch)	L (inch)	Style	Weight (lb)
4x4	11	360 000 768	3.85	4.50	6.00	7.000	8.38	1	2.116
6x4	11	360 000 774	4.14	4.50	7.20	9.630	9.13	1	3.858
8x4	11	360 000 787	3.85	4.50	6.00	9.560	10.40	1	15.565
10x4	11	360 000 742	3.85	4.50	6.00	12.840	6.75	2	21.451
12x4	11	360 000 752	3.85	4.50	6.00	14.78	6.75	2	26.963
8x6	11	360 000 788	4.62	6.63	8.00	10.940	13.16	2	16.799
10x6	11	360 000 743	4.62	6.63	9.00	12.820	15.03	2	27.646
12x6	11	360 000 753	4.62	6.63	10.00	14.780	17.16	2	27.999
10x8	11	360 000 745	7.36	8.63	10.00		15.03	2	
12x8	11	360 000 756	7.36	8.63	12.00		17.16	2	



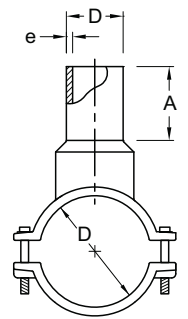
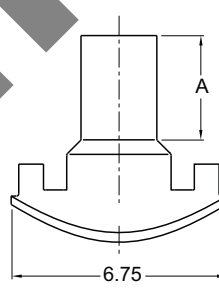
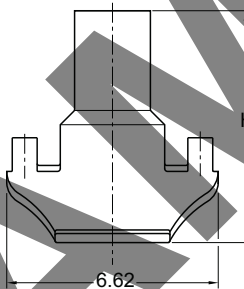
Bottom Clamp
STYLE 1



Top Load
STYLE 2

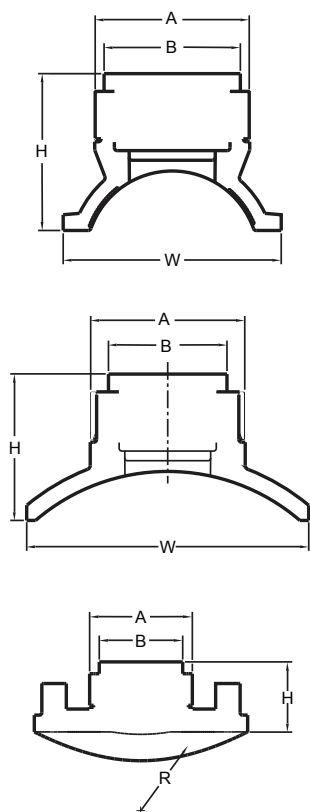


Under Clamp
STYLE 3



Electrofusion Saddle Brass 360 Female Thread - NPT Outlet

*Requires top load clamp

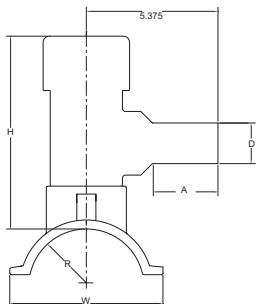


Size	SDR	Part Number	A (inch)	B (inch)	H (inch)	W (inch)	R (inch)	Weight (lb)
2×¾	11	360 001 137	3.25	2.50	3.27	3.59	1.19	2.161
3×¾	11	360 001 152	3.25	2.50	3.25	4.50	1.75	2.315
4×¾	11	360 001 167	3.25	2.50	3.70	6.26	2.35	2.337
6×¾	11	360 001 184	3.25	2.50	4.50	9.00	3.34	2.579
8×¾	11	360 001 209	3.25	2.50	2.50	6.10	4.31	2.579
10×¾	11	360 001 111	3.25	2.50	2.50	6.10	5.38	2.756
12×¾	11	360 001 129	3.25	2.50	2.50	6.10	6.38	2.579
3×1	11	360 001 155	3.25	2.50	3.25	4.50	1.75	2.006
4×1	11	360 001 170	3.25	2.50	3.25	6.26	2.35	2.183
6×1	11	360 001 187	3.25	2.50	4.50	9.00	3.34	2.425
8×1	11	360 001 213	3.25	2.50	2.50	6.10	4.31	2.028
2×1½	11	360 001 146	3.25	2.87	3.25	3.59	1.75	2.006
3×1½	11	360 001 161	3.25	2.87	3.25	4.50	1.75	2.050
6×1½	11	360 001 193	3.25	2.87	4.50	9.00	3.34	2.535
8×1½	11	360 001 218	3.25	2.87	2.50	6.10	4.31	2.161
10×1½	11	360 001 117	3.25	2.87	2.50	6.10	2.58	5.380
12×1½	11	360 003 709	3.25	2.87	2.50	6.10	6.38	2.094
8×2	11	360 001 207	3.50	3.25	2.50	6.10	4.53	4.277
10×2	11	360 001 119	3.50	3.25	2.50	6.10	5.38	4.431
12×2	11	360 001 134	3.50	3.25	2.50	6.10	6.38	2.227

Electrofusion Saddle 316SS Female Thread - NPT Outlet

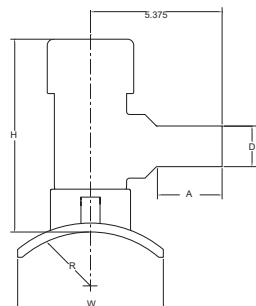
*Requires top load clamp

Size	SDR	Part Number	A (inch)	B (inch)	H (inch)	W (inch)	R (inch)	Weight (lb)
3×¾	11	360 001 153	3.25	2.50	3.25	4.50	1.75	2.315
4×¾	11	360 001 168	3.25	2.50	3.70	6.26	2.35	2.337
6×¾	11	360 001 185	3.25	2.50	4.50	9.00	3.34	2.579
8×¾	11	360 001 210	3.25	2.50	2.50	6.10	4.31	2.579
10×¾	11	360 001 103	3.25	2.50	2.50	6.10	5.38	2.756
3×1	11	360 001 156	3.25	2.50	3.25	4.50	1.75	2.006
4×1	11	360 001 171	3.25	2.50	3.25	6.26	2.35	2.183
6×1	11	360 001 188	3.25	2.50	4.50	9.00	3.34	2.425
8×1	11	360 001 214	3.25	2.50	2.50	6.10	4.31	2.028
12×1	11	360 001 132						
2×1½	11	360 001 147	3.25	2.87	3.25	3.59	1.75	2.006
3×1½	11	360 001 162	3.25	2.87	3.25	4.50	1.75	2.05
4×1½	11	360 001 177						
6×1½	11	360 001 194	3.25	2.87	4.50	9.00	3.34	2.535
8×1½	11	360 001 219	3.25	2.87	2.50	6.10	4.31	2.161
2×2	11	360 001 148						
3×2	11	360 001 163						
4×2	11	360 021 413						
6×2	11	360 001 196						
8×2	11	360 001 222	3.50	3.25	2.50	6.10	5.38	4.431
10×2	11	360 021 398	3.50	3.25	2.50	6.10	6.38	2.227



Electrofusion Tapping Tee Butt Outlet 3/4" - Brass Cutter

Size	SDR	Part Number	H (inch)	L (inch)	SP	Weight (lb)
2	11	360 001 258	5.06	4.50	40	0.772
3	11	360 001 294	5.18	4.58	40	0.154
4	11	360 001 347	5.93	4.46	30	0.992
6	11	360 001 382	7.06	4.61	20	1.190
8	11	360 001 411	4.14	4.60	40	0.860



Electrofusion Tapping Tee Butt Outlet 3/4" - 0.80 Steel Cutter

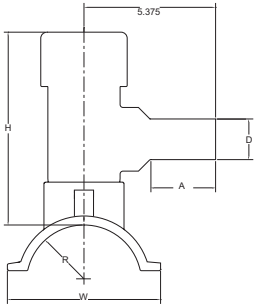
Size	SDR	Part Number	H (inch)	L (inch)	SP	Weight (lb)
1 1/4	11	360 003 730	4.83	4.58	50	0.838
2	11	360 003 145	5.06	4.50	30	0.860
3	11	360 003 731	5.18	4.58	25	0.948
4	11	360 003 732	5.93	4.46	20	1.124
6	11	360 003 733	7.06	4.61	12	1.257
8	11	360 003 715	4.14	4.60	40	0.750

Electrofusion Tapping Tee Butt Outlet 1" - Brass Cutter

Size	SDR	Part Number	H (inch)	L (inch)	SP	Weight (lb)
1 1/4	11	360 021 460	4.83	4.58	50	0.816
2	11	360 003 739	5.06	4.50	40	0.838
3	11	360 001 310	5.18	4.58	40	0.904
4	11	360 003 741	5.93	4.46	30	0.948
6	11	360 001 384	7.06	4.61	20	1.190
8	11	360 001 413	4.14	4.60	40	0.705

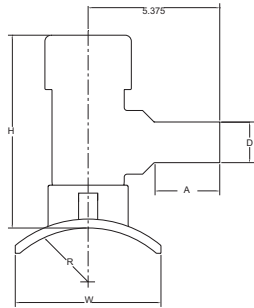
Electrofusion Tapping Tee Butt Outlet 1" - 0.80 Steel Cutter

Size	SDR	Part Number	H (inch)	L (inch)	SP	Weight (lb)
1 1/4	11	360 003 738	4.83	4.58	30	0.750
2	11	360 003 740	5.06	4.50	30	0.904
3	11	360 021 567	5.18	4.58	30	0.882
4	11	360 021 624	5.93	4.46	30	0.970
6	11	360 021 662	7.06	4.61	10	1.411
8	11	360 001 403	4.14	4.60	40	0.772



Electrofusion Tapping Tee Butt Outlet 1 1/2" - 1.50 Steel Cutter

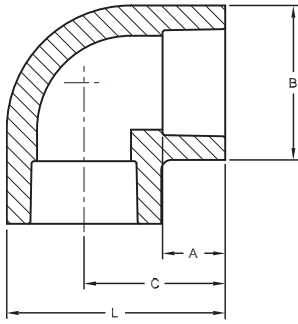
Size	SDR	Part Number	W (inch)	H (inch)	D (inch)	Weight (lb)
2	11	360 001 002	3.59	6.65	1.60	3.351
3	11	360 001 011	4.60	6.66	1.66	3.307
4	11	360 001 031	6.26	7.27	1.66	3.527
6	11	360 001 041	8.68	8.43	1.66	3.748
8	11	360 001 050	6.10	7.88	1.66	2.756
12	11	360 000 991	6.10	7.88	1.66	3.350



Electrofusion Tapping Tee Butt Outlet 2" - 1.80 Steel Cutter

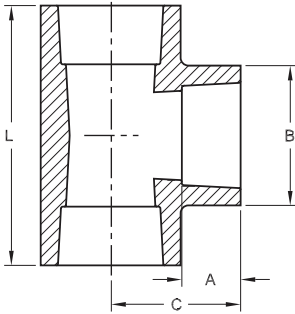
Size	SDR	Part Number	A (inch)	W (inch)	H (inch)	D (inch)	Weight (lb)
3	11	360 021 296	3.00	3.59	6.65	2.60	3.175
4	11	360 021 307	3.00	4.60	6.66	2.60	3.748
6	11	360 021 320	3.00	8.68	8.43	2.60	3.527
8	11	360 021 334	2.68	5.92	7.88	1.60	2.954
10	11	360 021 264	3.00	6.10	7.88	1.60	2.910
12	11	360 021 275	3.00	6.10	7.88	1.60	6.16

Socket Fusion Fittings



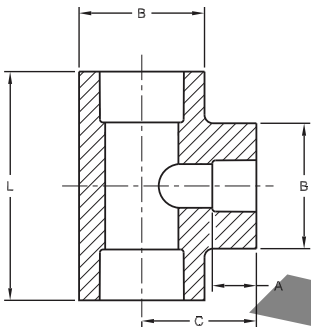
Socket Fusion 90 Elbow

Size	Part Number	A (inch)	B (inch)	C (inch)	L (inch)	Weight (lb)
1/2	360 002 093	0.66	1.20	1.31	1.91	0.066
3/4	360 002 095	0.75	1.50	1.63	2.38	0.110
1	360 002 099	0.77	1.83	1.69	2.61	0.154
1 1/4	360 002 101	0.95	2.27	2.09	3.23	0.265
1 1/2	360 002 103	0.98	2.63	2.33	3.65	0.419
2	360 002 105	1.00	3.28	2.73	4.37	0.728
3	360 002 107	1.17	5.21	4.13	6.74	3.285
4	360 002 109	1.34	6.40	5.50	8.70	5.930



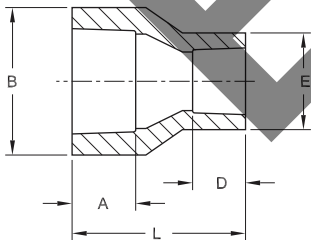
Socket Fusion Tee

Size	Part Number	A (inch)	B (inch)	C (inch)	L (inch)	Weight (lb)
1/2	360 002 195	0.64	1.19	1.31	2.66	0.066
3/4	360 002 198	0.73	1.49	1.63	3.25	0.154
1	360 002 205	0.91	1.50	1.63	3.26	0.132
1 1/4	360 002 207	0.98	2.30	2.10	4.22	0.375
1 1/2	360 002 210	0.97	2.65	2.34	4.67	0.573
2	360 002 212	0.97	3.26	2.78	5.40	0.948
3	360 002 215	1.19	5.25	4.20	8.28	4.079



Socket Fusion Reducing Tee

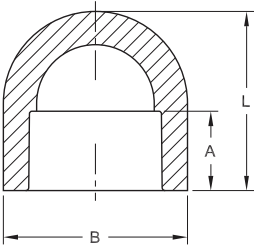
Size	Part Number	A (inch)	B (inch)	C (inch)	L (inch)	Weight (lb)
3/4 x 1/2	360 002 197	0.65		1.63	3.25	0.265
1 x 1/2	360 002 202	0.65		1.69	3.41	0.265
1 1/4 x 3/4	360 003 129				4.22	0.353
1 1/4 x 1	360 003 130				4.22	0.375
1 1/2 x 3/4	360 003 770				4.67	0.420
1 1/2 x 1 1/4	360 003 772				4.67	0.772
2 x 3/4	360 003 132				5.40	0.772
2 x 1 1/4	360 003 133				5.40	0.816



Socket Fusion Reducer Bushing

Size	Part Number	A (inch)	B (inch)	D (inch)	E (inch)	L (inch)	Weight (lb)
1 x 1/2	360 002 162	0.78	1.83	0.65	1.210	2.16	0.880
1 x 3/4	360 002 164	0.75	1.83	0.68	1.460	1.98	0.880
1 1/4 x 3/4	360 002 172	1.00	2.26	0.72	1.460	2.18	0.132
1 1/4 x 1	360 001 814	0.96	2.26	0.81	1.830	2.27	0.141
1 1/2 x 1	360 002 175	0.96	2.56	0.77	1.840	2.15	0.154
1 1/2 x 1 1/4	360 002 177	0.97	2.56	0.95	2.300	2.16	0.176
2 x 1	360 002 180	0.99	3.27	0.76	1.830	2.52	0.265
2 x 1 1/4	360 002 182	1.00	2.28	0.96	2.280	2.55	0.287
2 x 1 1/2	360 002 185	0.99	3.27	0.97	3.550	2.56	0.287
3 x 2	360 002 186	1.19	5.04	0.98	3.500	3.18	1.014
4 x 2	360 002 188	1.29	6.48	0.97	3.540	4.14	1.874
4 x 3	360 002 190	1.29	6.41	1.17	5.000	4.48	2.227

Socket Fusion Cap



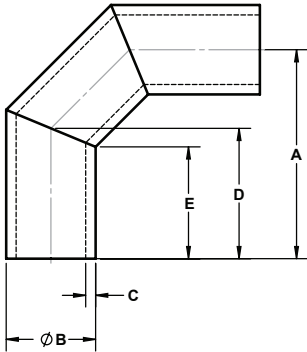
Size	Part Number	A (inch)	B (inch)	L (inch)	Weight (lb)
1/2	360 002 113	0.66	1.23	1.37	0.022
3/4	360 002 115	0.74	1.45	1.56	0.485
1	360 002 118	0.78	1.83	1.78	0.088
1 1/4	360 002 120	0.98	2.28	2.23	0.154
1 1/2	360 002 122	0.98	2.55	2.00	0.176
2	360 002 124	0.99	3.28	2.23	0.309
3	360 002 126	1.19	5.05	3.05	1.124

EXAMPLE

Industrial Polyethylene Fittings: Fabricated Butt Fusion Fittings

Design-Flow 90 Elbow Butt PE4710 SDR11 IPS - Fabricated

125 PSI rated. For full pressure and/or additional sizes, contact factory.



Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	Weight (lb)
14	11	360 016 121	19.39	14.00	1.27	10.90	8.00	64.00
16	11	360 016 157	21.16	16.00	1.46	11.31	8.00	83.59
18	11	360 016 191	22.51	18.00	1.64	11.73	8.00	112.00
20	11	360 016 227	24.09	20.00	1.82	12.14	8.00	147.11
22	11	360 016 260	25.67	22.00	2.00	12.56	8.00	188.73
24	11	360 016 295	27.32	24.00	2.18	12.97	8.00	237.90
26	11	360 016 317	30.91	26.00	2.36	15.39	10.00	318.35
28	11	360 016 333	32.49	28.00	2.55	15.80	10.00	386.53
30	11	360 016 350	34.08	30.00	2.73	16.21	10.00	463.77
32	11	360 016 363	38.88	32.00	2.91	16.63	10.00	591.99
36	11	360 016 391	42.64	36.00	3.27	17.46	10.00	816.46

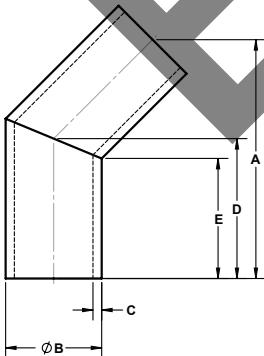
Design-Flow 90 Elbow Butt PE4710 SDR17 IPS - Fabricated 3-Segment

80 PSI rated. For full pressure and/or additional sizes, contact factory.

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	Weight (lb)
14	17	360 016 124	19.39	14.00	0.82	10.90	8.00	39.67
16	17	360 016 159	21.16	16.00	0.94	11.31	8.00	55.97
18	17	360 016 193	22.51	18.00	1.06	11.73	8.00	75.05
20	17	360 016 229	24.09	20.00	1.18	12.14	8.00	98.52
22	17	360 016 262	25.67	22.00	1.29	12.56	8.00	126.42
24	17	360 016 297	27.32	24.00	1.41	12.97	8.00	159.38
26	17	360 016 319	30.91	26.00	1.53	15.39	10.00	213.18
28	17	360 016 336	32.49	28.00	1.65	15.80	10.00	258.97
30	17	360 016 352	34.08	30.00	1.77	16.21	10.00	310.75
32	17	360 016 365	38.88	32.00	1.88	16.63	10.00	396.52
36	17	360 016 394	42.64	36.00	2.12	17.46	10.00	546.99

Design-Flow 45 Elbow Butt PE 4710 SDR11 IPS - Fabricated

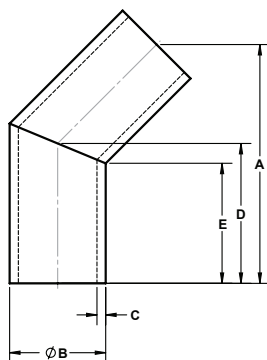
125 PSI rated. For full pressure and/or additional sizes, contact factory.



Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	Weight (lb)
14	11	360 016 107	18.61	14.00	1.27	10.90	8.00	38.15
16	11	360 016 143	19.31	16.00	1.46	11.31	8.00	51.71
18	11	360 016 177	20.02	18.00	1.64	11.73	8.00	67.84
20	11	360 016 212	20.72	20.00	1.82	12.14	8.00	86.69
22	11	360 016 246	21.44	22.00	2.00	12.56	8.00	108.53
24	11	360 016 281	22.14	24.00	2.18	12.97	8.00	133.39
26	11	360 016 311	26.26	26.00	2.36	15.38	10.00	185.65
28	11	360 016 326	26.97	28.00	2.55	15.80	10.00	221.12
30	11	360 016 344	27.67	30.00	2.73	16.21	10.00	260.45
32	11	360 016 358	28.39	32.00	2.91	16.63	10.00	304.03
36	11	360 016 382	29.81	36.00	3.27	17.46	10.00	404.03

Design-Flow 45 Elbow Butt PE4710 SDR17 IPS - Fabricated 2-Segment

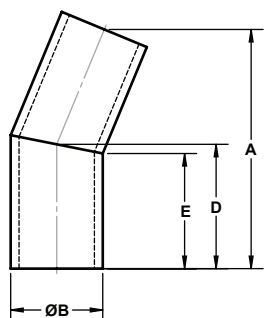
80 PSI rated. For full pressure and/or additional sizes, contact factory.



Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	Weight (lb)
14	17	360 016 109	18.61	14.00	0.82	10.90	8.00	25.57
16	17	360 016 145	19.31	16.00	0.94	11.31	8.00	34.62
18	17	360 016 179	20.02	18.00	1.06	11.73	8.00	45.46
20	17	360 016 214	20.72	20.00	1.18	12.14	8.00	58.06
22	17	360 016 248	21.44	22.00	1.29	12.56	8.00	72.70
24	17	360 016 283	22.14	24.00	1.41	12.97	8.00	89.37
26	17	360 016 313	26.26	26.00	1.53	15.38	10.00	124.32
28	17	360 016 329	26.97	28.00	1.65	15.80	10.00	148.15
30	17	360 016 346	27.67	30.00	1.77	16.21	10.00	174.52
32	17	360 016 360	28.39	32.00	1.88	16.63	10.00	203.64
36	17	360 016 385	29.81	36.00	2.12	17.46	10.00	270.68

Design-Flow 22.5 Elbow Butt PE4710 SDR7 IPS - Fabricated 2-Segment

200 PSI rated. For full pressure and/or additional sizes, contact factory.



Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	Weight (lb)
2	7	360 015 843	8.15	2.38	0.34	4.24	4.00	0.63
3	7	360 015 863	8.37	3.50	0.50	4.35	4.00	1.41
4	7	360 015 884	12.40	4.50	0.64	6.45	6.00	3.46
6	7	360 015 936	12.81	6.63	0.95	6.66	6.00	7.73
8	7	360 015 980	14.16	8.63	1.23	7.36	6.50	14.48
10	7	360 016 021	14.56	10.75	1.54	7.57	6.50	23.14
12	7	360 016 057	17.83	12.75	1.82	9.27	8.00	39.86
14	7	360 016 096	18.07	14.00	2.00	9.39	8.00	48.68
16	7	360 016 132	18.45	16.00	2.29	9.59	8.00	64.95
18	7	360 016 167	18.84	18.00	2.57	9.79	8.00	83.90
20	7	360 016 201	19.22	20.00	2.86	9.99	8.00	105.70
22	7	360 016 236	19.60	22.00	3.14	10.19	8.00	130.47
24	7	360 016 270	19.98	24.00	3.43	10.39	8.00	158.33

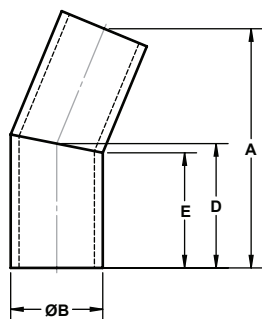
Design-Flow 22.5 Elbow Butt PE4710 SDR9 IPS - Fabricated 2-Segment

150 PSI rated. For full pressure and/or additional sizes, contact factory.

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	Weight (lb)
2	9	360 015 844	8.15	2.38	0.26	4.24	4.00	0.51
3	9	360 015 864	8.37	3.50	0.39	4.35	4.00	1.14
4	9	360 015 885	12.40	4.50	0.50	6.45	6.00	2.79
6	9	360 015 937	12.81	6.63	0.74	6.66	6.00	6.24
8	9	360 015 981	14.16	8.63	0.96	7.36	6.50	11.68
10	9	360 016 022	14.56	10.75	1.19	7.57	6.50	18.66
12	9	360 016 058	17.83	12.75	1.42	9.27	8.00	32.16
14	9	360 016 097	18.07	14.00	1.56	9.39	8.00	39.28
16	9	360 016 133	18.45	16.00	1.78	9.59	8.00	52.39
18	9	360 016 168	18.84	18.00	2.00	9.79	8.00	67.68
20	9	360 016 202	19.22	20.00	2.22	9.99	8.00	85.25
22	9	360 016 237	19.60	22.00	2.44	10.19	8.00	105.21
24	9	360 016 271	19.98	24.00	2.67	10.39	8.00	127.71
26	9	360 016 306	24.21	26.00	2.89	12.59	10.00	181.60
28	9	360 016 321	24.60	28.00	3.11	12.78	10.00	213.77
30	9	360 016 338	24.98	30.00	3.33	12.98	10.00	249.23
32	9	360 062 263	25.36	32.00	3.56	13.18	10.00	288.00

Design-Flow 22.5 Elbow Butt PE4710 SDR11 IPS - Fabricated 2-Segment

125 PSI rated. For full pressure and/or additional sizes, contact factory.



Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	Weight (lb)
2	11	360 015 845	8.15	2.38	0.22	4.24	4.00	0.43
3	11	360 015 865	8.37	3.50	0.32	4.35	4.00	0.95
4	11	360 015 886	12.40	4.50	0.41	6.45	6.00	2.33
6	11	360 015 938	12.81	6.63	0.60	6.66	6.00	5.22
8	11	360 015 982	14.16	8.63	0.78	7.36	6.50	9.77
10	11	360 016 023	14.56	10.75	0.98	7.57	6.50	15.61
12	11	360 016 059	17.83	12.75	1.16	9.27	8.00	26.90
14	11	360 016 098	18.07	14.00	1.27	9.39	8.00	32.87
16	11	360 016 134	18.45	16.00	1.46	9.59	8.00	43.84
18	11	360 016 171	18.84	18.00	1.64	9.79	8.00	56.62
20	11	360 016 203	19.22	20.00	1.82	9.99	8.00	71.34
22	11	360 016 238	19.60	22.00	2.00	10.19	8.00	88.05
24	11	360 016 272	19.98	24.00	2.18	10.39	8.00	106.86
26	11	360 016 307	24.21	26.00	2.36	12.59	10.00	151.97
28	11	360 016 322	24.60	28.00	2.55	12.79	10.00	178.86
30	11	360 016 339	24.98	30.00	2.73	12.98	10.00	208.55
32	11	360 016 355	25.36	32.00	2.91	13.18	10.00	240.95
36	11	360 016 377	26.13	36.00	3.27	13.58	10.00	314.25

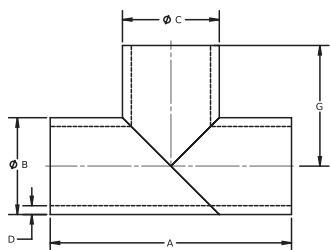
Design-Flow 22.5 Elbow Butt PE4710 SDR17 IPS - Fabricated 2-Segment

80 PSI rated. For full pressure and/or additional sizes, contact factory.

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	Weight (lb)
2	17	360 015 846	8.15	2.38	0.14	4.236	4.00	0.29
3	17	360 015 866	8.37	3.50	0.21	4.348	4.00	0.64
4	17	360 015 887	12.40	4.50	0.27	6.448	6.00	1.56
6	17	360 015 939	12.81	6.63	0.39	6.659	6.00	3.50
8	17	360 015 983	14.16	8.63	0.51	7.358	6.50	6.54
10	17	360 016 024	14.56	10.75	0.63	7.569	6.50	10.46
12	17	360 016 057	17.83	12.75	0.75	9.268	8.00	18.02
14	17	360 016 099	18.07	14.00	0.82	9.392	8.00	22.02
16	17	360 016 135	18.45	16.00	0.94	9.591	8.00	29.36
18	17	360 016 170	18.84	18.00	1.06	9.790	8.00	37.94
20	17	360 016 204	19.22	20.00	1.18	9.989	8.00	47.78
22	17	360 016 239	19.60	22.00	1.29	10.188	8.00	58.98
24	17	360 016 273	19.98	24.00	1.41	10.387	8.00	71.59
26	17	360 016 308	24.21	26.00	1.53	12.586	10.00	101.77
28	17	360 016 323	24.60	28.00	1.65	12.785	10.00	119.83
30	17	360 016 340	24.98	30.00	1.77	12.984	10.00	139.74
32	17	360 016 356	25.36	32.00	1.88	13.183	10.00	161.39
36	17	360 016 378	26.13	36.00	2.12	13.580	10.00	210.53

Design-Flow Tee Butt PE4710 SDR11 IPS - Fabricated

125 PSI rated. For full pressure and/or additional sizes, contact factory.



Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	G (inch)	Weight (lb)
14	11	360 017 254	32.00	14.00	14.00	1.27	16.00	69.79
16	11	360 017 261	34.00	16.00	16.00	1.46	17.00	95.37
18	11	360 017 268	38.00	18.00	18.00	1.64	19.00	134.64
20	11	360 017 275	40.00	20.00	20.00	1.82	20.00	172.81
22	11	360 017 282	46.00	22.00	22.00	2.00	23.00	242.99
24	11	360 017 288	48.00	24.00	24.00	2.18	24.00	298.67
26	11	360 017 293	54.00	26.00	26.00	2.36	27.00	397.87
28	11	360 017 298	56.00	28.00	28.00	2.55	28.00	134.64
30	11	360 017 302	58.00	30.00	30.00	2.73	29.00	559.13
32	11	360 017 306	60.00	32.00	32.00	2.91	30.00	653.02
36	11	360 017 310	76.00	36.00	36.00	3.27	51.00	1,227.92

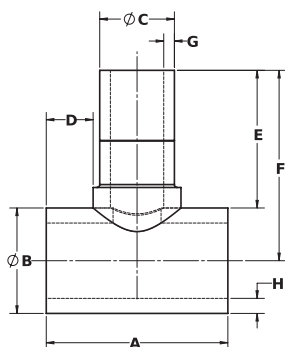
Design-Flow Tee Butt PE4710 SDR17 IPS - Fabricated

80 PSI rated. For full pressure and/or additional sizes, contact factory.

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	G (inch)	Weight (lb)
14	17	360 017 255	32.00	14.00	14.00	0.82	16.00	46.45
16	17	360 017 262	34.00	16.00	16.00	0.94	17.00	63.39
18	17	360 017 269	38.00	18.00	18.00	1.06	19.00	89.56
20	17	360 017 276	40.00	20.00	20.00	1.18	20.00	114.81
22	17	360 017 283	46.00	22.00	22.00	1.29	23.00	161.54
24	17	360 017 289	48.00	24.00	24.00	1.41	24.00	198.49
26	17	360 017 294	54.00	26.00	26.00	1.53	27.00	264.39
28	17	360 017 299	56.00	28.00	28.00	1.65	28.00	89.56
30	17	360 017 303	58.00	30.00	30.00	1.77	29.00	371.54
32	17	360 017 307	60.00	32.00	32.00	1.88	30.00	433.61
36	17	360 017 311	76.00	36.00	36.00	2.12	51.00	817.26

Design-Flow Branch Saddle Reduced Tee Butt PE4710 SDR7 IPS

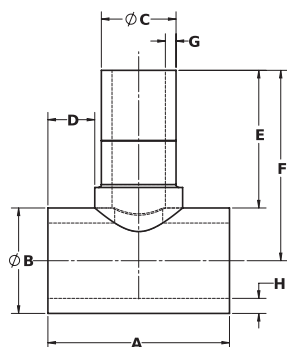
200 PSI rated. For full pressure and/or additional sizes, contact factory.



Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)
4x2	7	360 061 241	18.00	4.50	2.38	6.00	10.00	12.25	0.339	0.643
6x2	7	360 029 015	18.00	6.63	2.38	6.00	10.00	13.31	0.339	0.946
6x3	7	360 018 869	18.00	6.63	3.50	6.00	10.00	13.31	0.500	0.946
6x4	7	360 029 016	18.63	6.63	4.50	6.00	10.75	14.06	0.643	0.946
8x2	7	360 061 920	19.50	8.63	2.38	8.00	10.00	14.31	0.339	1.232
8x3	7	360 062 265	20.50	8.63	3.50	8.00	10.25	14.56	0.500	1.232
8x4	7	360 029 018	22.63	8.63	4.50	8.00	10.75	15.06	0.643	1.232
10x3	7	360 061 779	20.50	10.75	3.50	8.00	10.50	15.88	0.500	1.536
10x4	7	360 061 224	22.63	10.75	4.50	8.00	10.75	16.13	0.643	1.536
10x6	7	360 028 505	24.63	10.75	6.63	8.00	11.25	16.63	0.946	1.536
12x3	7	360 062 266	20.50	12.75	3.50	8.00	10.75	17.13	0.500	1.821
12x4	7	360 060 099	22.63	12.75	4.50	8.00	11.00	17.38	0.643	1.821
12x6	7	360 019 267	24.63	12.75	6.63	8.00	11.50	17.88	0.946	1.821
12x8	7	360 018 952	26.75	12.75	8.63	8.00	19.75	26.13	1.232	1.821
14x3	7	360 062 267	20.50	14.00	3.50	8.00	11.00	18.00	0.500	2.000
14x4	7	360 062 268	22.63	14.00	4.50	8.00	11.00	18.00	0.643	2.000
14x6	7	360 062 269	24.63	14.00	6.63	8.00	11.50	18.50	0.946	2.000
14x8	7	360 019 336	26.75	14.00	8.63	8.00	20.00	27.00	1.232	2.000
16x8	7	360 062 271	26.75	16.00	8.63	8.00	20.25	28.25	1.232	2.286
16x10	7	360 032 125	28.75	16.00	10.75	8.00	21.00	29.00	1.536	2.286
18x3	7	360 062 273	20.50	18.00	3.50	8.00	11.50	20.50	0.500	2.571
18x4	7	360 062 274	22.63	18.00	4.50	8.00	11.25	20.25	0.643	2.571
18x6	7	360 062 275	24.63	18.00	6.63	8.00	12.00	21.00	0.946	2.571
18x8	7	360 062 276	26.75	18.00	8.63	8.00	20.50	29.50	1.232	2.571
20x3	7	360 062 278	20.50	20.00	3.50	8.00	11.50	21.50	0.500	2.857
20x4	7	360 032 126	22.63	20.00	4.50	8.00	11.25	21.25	0.643	2.857
20x6	7	360 019 099	24.63	20.00	6.63	8.00	12.25	22.25	0.946	2.857
20x8	7	360 019 105	26.75	20.00	8.63	8.00	20.75	30.75	1.232	2.857
22x3	7	360 062 280	20.50	22.00	3.50	8.00	11.75	22.75	0.500	3.143
22x4	7	360 062 281	22.63	22.00	4.50	8.00	11.50	22.50	0.643	3.143
22x6	7	360 062 282	24.63	22.00	6.63	8.00	12.50	23.50	0.946	3.143
22x8	7	360 061 877	26.75	22.00	8.63	8.00	21.00	32.00	1.232	3.143
24x3	7	360 062 284	20.50	24.00	3.50	8.00	12.00	24.00	0.500	3.429
24x4	7	360 062 285	22.63	24.00	4.50	8.00	11.50	23.50	0.643	3.429
24x6	7	360 028 754	24.63	24.00	6.63	8.00	12.75	24.75	0.946	3.429
24x8	7	360 061 300	26.75	24.00	8.63	8.00	21.25	33.25	1.232	3.429

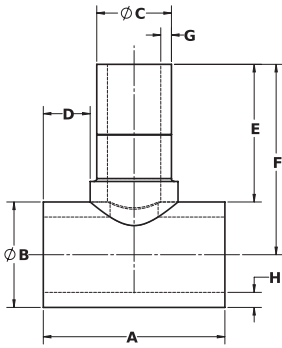
Design-Flow Branch Saddle Reduced Tee Butt PE4710 SDR9 IPS

150 PSI rated. For full pressure and/or additional sizes, contact factory.



Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)
4x2	9	360 018 852	18.00	4.50	2.38	6.00	10.00	12.25	0.264	0.500
6x2	9	360 018 863	18.00	6.63	2.38	6.00	10.00	13.31	0.264	0.736
6x3	9	360 018 870	18.00	6.63	3.50	6.00	10.00	13.31	0.389	0.736
6x4	9	360 018 876	18.63	6.63	4.50	6.00	10.75	14.06	0.500	0.736
8x2	9	360 018 882	19.50	8.63	2.38	8.00	10.00	14.31	0.264	0.958
8x3	9	360 018 887	20.50	8.63	3.50	8.00	10.25	14.56	0.389	0.958
8x4	9	360 018 893	22.63	8.63	4.50	8.00	10.75	15.06	0.500	0.958
10x3	9	360 018 908	20.50	10.75	3.50	8.00	10.50	15.88	0.389	1.194
10x4	9	360 018 914	22.63	10.75	4.50	8.00	10.75	16.13	0.500	1.194
10x6	9	360 018 919	24.63	10.75	6.63	8.00	11.25	16.63	0.736	1.194
12x3	9	360 018 934	20.50	12.75	3.50	8.00	10.75	17.13	0.389	1.417
12x4	9	360 018 940	22.63	12.75	4.50	8.00	10.75	17.13	0.500	1.417
12x6	9	360 018 946	24.63	12.75	6.63	8.00	11.25	17.63	0.736	1.417
12x8	9	360 018 953	26.75	12.75	8.63	8.00	19.75	26.13	0.958	1.417
14x3	9	360 018 970	20.50	14.00	3.50	8.00	10.75	17.75	0.389	1.556
14x4	9	360 018 975	22.63	14.00	4.50	8.00	11.00	18.00	0.500	1.556
14x6	9	360 018 980	24.63	14.00	6.63	8.00	11.50	18.50	0.736	1.556
14x8	9	360 018 985	26.75	14.00	8.63	8.00	19.75	26.75	0.958	1.556
16x8	9	360 019 023	26.75	16.00	8.63	8.00	20.00	28.00	0.958	1.778
16x10	9	360 019 028	28.75	16.00	10.75	8.00	20.75	28.75	1.194	1.778
18x3	9	360 019 047	20.50	18.00	3.50	8.00	11.25	20.25	0.389	2.000
18x4	9	360 019 052	22.63	18.00	4.50	8.00	11.25	20.25	0.500	2.000
18x6	9	360 019 057	24.63	18.00	6.63	8.00	11.75	20.75	0.736	2.000
18x8	9	360 019 062	26.75	18.00	8.63	8.00	20.25	29.25	0.958	2.000
18x10	9	360 019 067	28.75	18.00	10.75	8.00	21.00	30.00	1.194	2.000
18x12	9	360 061 366	31.00	18.00	12.75	8.00	23.25	32.25	1.417	2.000
20x3	9	360 019 089	20.50	20.00	3.50	8.00	11.50	21.50	0.389	2.222
20x4	9	360 019 094	22.63	20.00	4.50	8.00	11.25	21.25	0.500	2.222
20x6	9	360 019 100	24.63	20.00	6.63	8.00	12.00	22.00	0.736	2.222
20x8	9	360 019 106	26.75	20.00	8.63	8.00	20.50	30.50	0.958	2.222
22x3	9	360 019 133	20.50	22.00	3.50	8.00	11.75	22.75	0.389	2.444
22x4	9	360 019 138	22.63	22.00	4.50	8.00	11.50	22.50	0.500	2.444
22x6	9	360 019 143	24.63	22.00	6.63	8.00	12.25	23.25	0.736	2.444
22x8	9	360 019 148	26.75	22.00	8.63	8.00	20.75	31.75	0.958	2.444
24x2	9	360 019 172	19.50	24.00	2.38	8.00	10.75	22.75	0.264	2.667
24x3	9	360 019 176	20.50	24.00	3.50	8.00	11.75	23.75	0.389	2.667
24x4	9	360 019 181	22.63	24.00	4.50	8.00	11.50	23.50	0.500	2.667
24x6	9	360 019 187	24.63	24.00	6.63	8.00	12.50	24.50	0.736	2.667
24x8	9	360 019 193	26.75	24.00	8.63	8.00	21.00	33.00	0.958	2.667
24x10	9	360 019 200	28.75	24.00	10.75	8.00	22.00	34.00	1.194	2.667
24x14	9	360 019 213	32.00	24.00	14.00	8.00	27.50	39.50	1.556	2.667
24x16	9	360 019 215	34.00	24.00	16.00	8.00	29.25	41.25	1.778	2.667
26x3	9	360 062 287	24.50	26.00	3.50	10.00	12.00	25.00	0.389	2.889
26x4	9	360 062 288	26.63	26.00	4.50	10.00	11.50	24.50	0.500	2.889
26x6	9	360 060 489	28.63	26.00	6.63	10.00	12.75	25.75	0.736	2.889
26x8	9	360 060 324	30.75	26.00	8.63	10.00	21.25	34.25	0.958	2.889
26x10	9	360 060 328	32.75	26.00	10.75	10.00	22.50	35.50	1.194	2.889
26x12	9	360 062 289	35.00	26.00	12.75	10.00	24.75	37.75	1.417	2.889
26x14	9	360 062 290	36.00	26.00	14.00	10.00	27.75	40.75	1.556	2.889
26x16	9	360 060 327	38.00	26.00	16.00	10.00	29.75	42.75	1.778	2.889
26x18	9	360 062 291	40.00	26.00	18.00	10.00	30.25	43.25	2.000	2.889
28x2	9	360 062 293	23.50	28.00	2.38	10.00	11.00	25.00	0.264	3.111
28x3	9	360 062 294	24.50	28.00	3.50	10.00	12.25	26.25	0.389	3.111
28x4	9	360 062 295	26.63	28.00	4.50	10.00	11.75	25.75	0.500	3.111
28x6	9	360 062 296	28.63	28.00	6.63	10.00	12.75	26.75	0.736	3.111

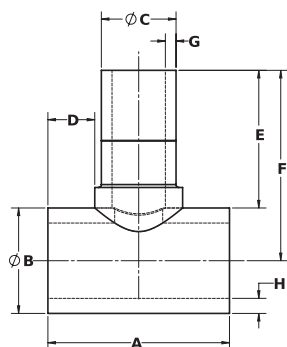
Table continues next page



Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)
28×8	9	360 062 297	30.75	28.00	8.63	10.00	21.50	35.50	0.958	3.111
28×10	9	360 062 298	32.75	28.00	10.75	10.00	22.75	36.75	1.194	3.111
28×12	9	360 062 299	35.00	28.00	12.75	10.00	25.00	39.00	1.417	3.111
28×14	9	360 062 300	36.00	28.00	14.00	10.00	28.25	42.25	1.556	3.111
28×16	9	360 062 301	38.00	28.00	16.00	10.00	30.25	44.25	1.778	3.111
28×18	9	360 061 350	40.00	28.00	18.00	10.00	30.75	44.75	2.000	3.111
30×3	9	360 062 305	24.50	30.00	3.50	10.00	12.50	27.50	0.389	3.333
30×4	9	360 062 306	26.63	30.00	4.50	10.00	11.75	26.75	0.500	3.333
30×6	9	360 062 307	28.63	30.00	6.63	10.00	13.00	28.00	0.736	3.333
30×8	9	360 062 308	30.75	30.00	8.63	10.00	21.75	36.75	0.958	3.333
30×10	9	360 062 309	32.75	30.00	10.75	10.00	23.00	38.00	1.194	3.333
30×12	9	360 062 310	35.00	30.00	12.75	10.00	25.50	40.50	1.417	3.333
30×14	9	360 062 311	36.00	30.00	14.00	10.00	28.75	43.75	1.556	3.333
30×16	9	360 061 600	38.00	30.00	16.00	10.00	30.75	45.75	1.778	3.333
30×18	9	360 062 312	40.00	30.00	18.00	10.00	31.25	46.25	2.000	3.333
30×20	9	360 062 313	42.00	30.00	20.00	10.00	31.25	46.25	2.222	3.333
32×3	9	360 062 317	24.50	32.00	3.50	10.00	12.75	28.75	0.389	3.556
32×4	9	360 062 318	26.63	32.00	4.50	10.00	12.00	28.00	0.500	3.556
32×6	9	360 062 319	28.63	32.00	6.63	10.00	13.25	29.25	0.736	3.556
32×8	9	360 062 320	30.75	32.00	8.63	10.00	22.00	38.00	0.958	3.556
32×10	9	360 062 321	32.75	32.00	10.75	10.00	23.50	39.50	1.194	3.556
32×12	9	360 062 322	35.00	32.00	12.75	10.00	25.75	41.75	1.417	3.556
32×14	9	360 062 323	36.00	32.00	14.00	10.00	29.25	45.25	1.556	3.556
32×16	9	360 062 324	38.00	32.00	16.00	10.00	31.25	47.25	1.778	3.556
32×18	9	360 062 325	40.00	32.00	18.00	10.00	31.75	47.75	2.000	3.556
32×20	9	360 062 326	42.00	32.00	20.00	10.00	31.75	47.75	2.222	3.556

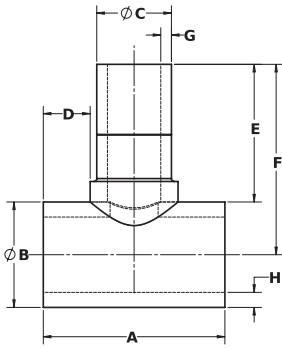
Design-Flow Branch Saddle Reduced Tee Butt PE4710 SDR11 IPS

125 PSI rated. For full pressure and/or additional sizes, contact factory.



Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)
4x2	11	360 018 853	18.00	4.50	2.38	6.00	10.00	12.25	0.216	0.409
6x2	11	360 018 864	18.00	6.63	2.38	6.00	10.00	13.31	0.216	0.602
6x3	11	360 018 871	18.00	6.63	3.50	6.00	10.00	13.31	0.318	0.602
6x4	11	360 018 877	18.63	6.63	4.50	6.00	10.75	14.06	0.409	0.602
8x3	11	360 018 888	20.50	8.63	3.50	8.00	10.25	14.56	0.318	0.784
8x4	11	360 018 894	22.63	8.63	4.50	8.00	10.75	15.06	0.409	0.784
10x3	11	360 018 909	20.50	10.75	3.50	8.00	10.50	15.88	0.318	0.977
10x4	11	360 018 915	22.63	10.75	4.50	8.00	10.75	16.13	0.409	0.977
10x6	11	360 018 920	24.63	10.75	6.63	8.00	11.00	16.38	0.602	0.977
12x3	11	360 018 935	20.50	12.75	3.50	8.00	10.50	16.88	0.318	1.159
12x4	11	360 018 941	22.63	12.75	4.50	8.00	10.75	17.13	0.409	1.159
12x6	11	360 018 947	24.63	12.75	6.63	8.00	11.25	17.63	0.602	1.159
12x8	11	360 018 954	26.75	12.75	8.63	8.00	19.50	25.88	0.784	1.159
14x3	11	360 018 971	20.50	14.00	3.50	8.00	10.75	17.75	0.318	1.273
14x4	11	360 018 976	22.63	14.00	4.50	8.00	10.75	17.75	0.409	1.273
14x6	11	360 018 981	24.63	14.00	6.63	8.00	11.25	18.25	0.602	1.273
14x8	11	360 018 986	26.75	14.00	8.63	8.00	19.75	26.75	0.784	1.273
16x8	11	360 019 024	26.75	16.00	8.63	8.00	20.00	28.00	0.784	1.455
16x10	11	360 019 029	28.75	16.00	10.75	8.00	20.50	28.50	0.977	1.455
18x3	11	360 019 048	20.50	18.00	3.50	8.00	11.00	20.00	0.318	1.636
18x4	11	360 019 068	22.63	18.00	4.50	8.00	11.00	20.00	0.409	1.636
18x6	11	360 019 073	20.50	18.00	3.50	8.00	11.00	20.00	0.318	1.636
18x8	11	360 019 063	26.75	18.00	8.63	8.00	20.00	29.00	0.784	1.636
20x3	11	360 019 090	20.50	20.00	3.50	8.00	11.25	21.25	0.318	1.818
20x4	11	360 019 118	22.63	20.00	4.50	8.00	11.25	21.25	0.409	1.818
20x6	11	360 019 101	24.63	20.00	6.63	8.00	12.00	22.00	0.602	1.818
20x8	11	360 019 126	26.75	20.00	8.63	8.00	20.25	30.25	0.784	1.818
22x3	11	360 019 177	20.50	22.00	3.50	8.00	11.50	22.50	0.318	2.000
22x4	11	360 019 182	22.63	22.00	4.50	8.00	11.25	22.25	0.409	2.000
22x6	11	360 019 216	24.63	22.00	6.63	8.00	12.00	23.00	0.602	2.000
22x8	11	360 019 194	26.75	22.00	8.63	8.00	20.50	31.50	0.784	2.000
24x3	11	360 019 177	20.50	24.00	3.50	8.00	11.50	23.50	0.318	2.182
24x4	11	360 019 182	22.63	24.00	4.50	8.00	11.50	23.50	0.409	2.182
24x6	11	360 019 188	24.63	24.00	6.63	8.00	12.25	24.25	0.602	2.182
24x8	11	360 019 194	26.75	24.00	8.63	8.00	20.75	32.75	0.784	2.182
26x3	11	360 061 780	24.50	26.00	3.50	10.00	11.75	24.75	0.318	2.364
26x4	11	360 061 781	26.63	26.00	4.50	10.00	11.50	24.50	0.409	2.364
26x6	11	360 061 782	28.63	26.00	6.63	10.00	12.50	25.50	0.602	2.364
26x8	11	360 061 783	30.75	26.00	8.63	10.00	21.00	34.00	0.784	2.364
26x10	11	360 061 784	32.75	26.00	10.75	10.00	22.00	35.00	0.977	2.364
26x12	11	360 061 785	35.00	26.00	12.75	10.00	24.25	37.25	1.159	2.364
26x14	11	360 061 786	36.00	26.00	14.00	10.00	27.25	40.25	1.273	2.364
26x16	11	360 019 224	38.00	26.00	16.00	10.00	29.00	42.00	1.455	2.364
26x18	11	360 061 787	40.00	26.00	18.00	10.00	29.00	42.00	1.636	2.364
28x3	11	360 061 790	24.50	28.00	3.50	10.00	12.00	26.00	0.318	2.545
28x4	11	360 061 791	26.63	28.00	4.50	10.00	11.50	25.50	0.409	2.545
28x6	11	360 061 792	28.63	28.00	6.63	10.00	12.50	26.50	0.602	2.545
28x8	11	360 061 793	30.75	28.00	8.63	10.00	21.25	35.25	0.784	2.545
28x10	11	360 061 794	32.75	28.00	10.75	10.00	22.25	36.25	0.977	2.545
28x12	11	360 028 774	35.00	28.00	12.75	10.00	24.50	38.50	1.159	2.545
28x14	11	360 061 795	36.00	28.00	14.00	10.00	27.75	41.75	1.273	2.545
28x16	11	360 061 796	38.00	28.00	16.00	10.00	29.50	43.50	1.455	2.545
28x18	11	360 028 775	40.00	28.00	18.00	10.00	29.50	43.50	1.636	2.545
30x3	11	360 061 799	24.50	30.00	3.50	10.00	12.25	27.25	0.318	2.727
30x4	11	360 061 800	26.63	30.00	4.50	10.00	11.75	26.75	0.409	2.727

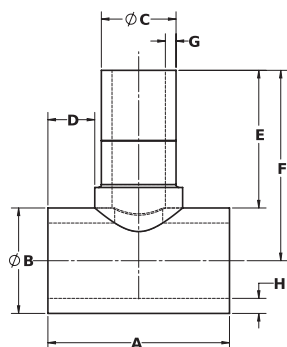
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Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)
30×6	11	360 061 801	28.63	30.00	6.63	10.00	12.75	27.75	0.602	2.727
30×8	11	360 019 229	30.75	30.00	8.63	10.00	21.50	36.50	0.784	2.727
30×10	11	360 061 802	32.75	30.00	10.75	10.00	22.50	37.50	0.977	2.727
30×12	11	360 019 231	35.00	30.00	12.75	10.00	25.00	40.00	1.159	2.727
30×14	11	360 061 061	36.00	30.00	14.00	10.00	28.00	43.00	1.273	2.727
30×16	11	360 019 234	38.00	30.00	16.00	10.00	29.75	44.75	1.455	2.727
3018	11	360 061 803	40.00	30.00	18.00	10.00	29.75	44.75	1.636	2.727
30×20	11	360 029 346	42.00	30.00	20.00	10.00	29.75	44.75	1.818	2.727
32×3	11	360 061 806	24.50	32.00	3.50	10.00	12.25	28.25	0.318	2.909
32×4	11	360 061 807	26.63	32.00	4.50	10.00	11.75	27.75	0.409	2.909
32×6	11	360 061 808	28.63	32.00	6.63	10.00	13.00	29.00	0.602	2.909
32×8	11	360 061 809	30.75	32.00	8.63	10.00	21.75	37.75	0.784	2.909
32×10	11	360 061 810	32.75	32.00	10.75	10.00	23.00	39.00	0.977	2.909
32×12	11	360 061 811	35.00	32.00	12.75	10.00	25.25	41.25	1.159	2.909
32×14	11	360 061 812	36.00	32.00	14.00	10.00	28.50	44.50	1.273	2.909
32×16	11	360 060 925	38.00	32.00	16.00	10.00	30.25	46.25	1.455	2.909
32×18	11	360 061 813	40.00	32.00	18.00	10.00	30.25	46.25	1.636	2.909
32×20	11	360 061 814	42.00	32.00	20.00	10.00	30.25	46.25	1.818	2.909
36×3	11	360 019 298	24.50	36.00	3.50	10.00	12.75	30.75	0.318	3.273
36×4	11	360 019 238	26.63	36.00	4.50	10.00	12.00	30.00	0.409	3.273
36×6	11	360 019 239	28.63	36.00	6.63	10.00	13.25	31.25	0.602	3.273
36×8	11	360 019 241	30.75	36.00	8.63	10.00	22.00	40.00	0.784	3.273
36×10	11	360 019 243	32.75	36.00	10.75	10.00	23.50	41.50	0.977	3.273
36×12	11	360 019 244	35.00	36.00	12.75	10.00	25.75	43.75	1.159	3.273
36×14	11	360 061 819	36.00	36.00	14.00	10.00	29.25	47.25	1.273	3.273
36×16	11	360 019 246	38.00	36.00	16.00	10.00	31.25	49.25	1.455	3.273
36×18	11	360 061 821	40.00	36.00	18.00	10.00	31.25	49.25	1.636	3.273
36×20	11	360 019 248	42.00	36.00	20.00	10.00	31.25	49.25	1.818	3.273
36×24	11	360 019 249	46.00	36.00	24.00	10.00	32.25	50.25	2.182	3.273

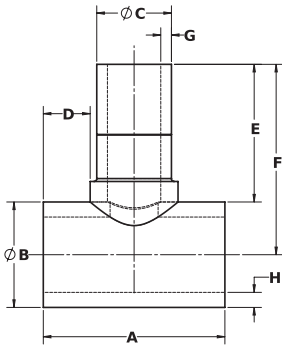
Design-Flow Reduced Tee Butt PE4710 SDR17 IPS

80 PSI rated. For full pressure and/or additional sizes, contact factory.



Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)
4x2	17	360 018 854	18.00	4.50	2.38	6.00	10.00	12.25	0.140	0.265
6x3	17	360 019 283	18.00	6.63	3.50	6.00	10.00	13.31	0.206	0.390
6x4	17	360 032 253	18.63	6.63	4.50	6.00	10.75	14.06	0.265	0.390
8x3	17	360 018 889	20.50	8.63	3.50	8.00	10.00	14.31	0.206	0.507
8x4	17	360 061 669	22.63	8.63	4.50	8.00	10.75	15.06	0.265	0.507
10x3	17	360 018 910	20.50	10.75	3.50	8.00	10.25	15.63	0.206	0.632
10x4	17	360 018 916	22.63	10.75	4.50	8.00	10.75	16.13	0.265	0.632
10x6	17	360 060 097	24.63	10.75	6.63	8.00	10.75	16.13	0.390	0.632
12x3	17	360 018 936	20.50	12.75	3.50	8.00	10.25	16.63	0.206	0.750
12x4	17	360 018 942	22.63	12.75	4.50	8.00	10.75	17.13	0.265	0.750
12x6	17	360 018 948	24.63	12.75	6.63	8.00	11.00	17.38	0.390	0.750
12x8	17	360 018 955	26.75	12.75	8.63	8.00	19.25	25.63	0.507	0.750
14x3	17	360 061 673	20.50	14.00	3.50	8.00	10.25	17.25	0.206	0.824
14x4	17	360 061 674	22.63	14.00	4.50	8.00	10.75	17.75	0.265	0.824
14x6	17	360 028 095	24.63	14.00	6.63	8.00	11.00	18.00	0.390	0.824
14x8	17	360 028 094	26.75	14.00	8.63	8.00	19.25	26.25	0.507	0.824
16x3	17	360 061 469	20.50	16.00	3.50	8.00	10.50	18.50	0.206	0.941
16x4	17	360 019 014	22.63	16.00	4.50	8.00	10.75	18.75	0.265	0.941
16x6	17	360 028 623	24.63	16.00	6.63	8.00	11.25	19.25	0.390	0.941
16x8	17	360 028 989	26.75	16.00	8.63	8.00	19.50	27.50	0.507	0.941
16x10	17	360 019 030	28.75	16.00	10.75	8.00	20.00	28.00	0.632	0.941
18x3	17	360 061 679	20.50	18.00	3.50	8.00	10.75	19.75	0.206	1.059
18x4	17	360 061 493	22.63	18.00	4.50	8.00	10.75	19.75	0.265	1.059
18x6	17	360 028 662	24.63	18.00	6.63	8.00	11.25	20.25	0.390	1.059
18x8	17	360 028 666	26.75	18.00	8.63	8.00	19.50	28.50	0.507	1.059
18x10	17	360 061 159	28.75	18.00	10.75	8.00	20.25	29.25	0.632	1.059
18x12	17	360 061 318	31.00	18.00	12.75	8.00	22.25	31.25	0.750	1.059
20x3	17	360 032 056	20.50	20.00	3.50	8.00	10.75	20.75	0.206	1.176
20x4	17	360 061 682	22.63	20.00	4.50	8.00	11.00	21.00	0.265	1.176
20x6	17	360 061 683	24.63	20.00	6.63	8.00	11.50	21.50	0.390	1.176
20x8	17	360 028 698	26.75	20.00	8.63	8.00	19.75	29.75	0.507	1.176
20x10	17	360 019 113	28.75	20.00	10.75	8.00	20.50	30.50	0.632	1.176
20x12	17	360 019 119	31.00	20.00	12.75	8.00	22.50	32.50	0.750	1.176
20x14	17	360 028 140	32.00	20.00	14.00	8.00	25.00	35.00	0.824	1.176
22x3	17	360 061 685	20.50	22.00	3.50	8.00	11.00	22.00	0.206	1.294
22x4	17	360 061 686	22.63	22.00	4.50	8.00	11.00	22.00	0.265	1.294
22x6	17	360 061 687	24.63	22.00	6.63	8.00	11.50	22.50	0.390	1.294
22x8	17	360 019 150	26.75	22.00	8.63	8.00	20.00	31.00	0.507	1.294
22x10	17	360 061 728	28.75	22.00	10.75	8.00	20.50	31.50	0.632	1.294
22x12	17	360 061 729	31.00	22.00	12.75	8.00	22.75	33.75	0.750	1.294
22x14	17	360 061 730	32.00	22.00	14.00	8.00	25.25	36.25	0.824	1.294
24x3	17	360 061 690	20.50	24.00	3.50	8.00	11.00	23.00	0.206	1.412
24x4	17	360 061 691	22.63	24.00	4.50	8.00	11.00	23.00	0.265	1.412
24x6	17	360 061 691	24.63	24.00	6.63	8.00	11.75	23.75	0.390	1.412
24x8	17	360 019 195	26.75	24.00	8.63	8.00	20.00	32.00	0.507	1.412
24x10	17	360 019 202	28.75	24.00	10.75	8.00	20.75	32.75	0.632	1.412
24x12	17	360 019 208	31.00	24.00	12.75	8.00	23.00	35.00	0.750	1.412
24x14	17	360 061 732	32.00	24.00	14.00	8.00	25.50	37.50	0.824	1.412
24x16	17	360 060 340	34.00	24.00	16.00	8.00	26.50	38.50	0.941	1.412
26x3	17	360 061 695	24.50	26.00	3.50	10.00	11.25	24.25	0.206	1.529
26x4	17	360 061 696	26.63	26.00	4.50	10.00	11.25	24.25	0.265	1.529
26x6	17	360 061 697	28.63	26.00	6.63	10.00	11.75	24.75	0.390	1.529
26x8	17	360 061 698	30.75	26.00	8.63	10.00	20.25	33.25	0.507	1.529
26x10	17	360 028 763	32.75	26.00	10.75	10.00	21.00	34.00	0.632	1.529
26x12	17	360 061 699	35.00	26.00	12.75	10.00	23.25	36.25	0.750	1.529

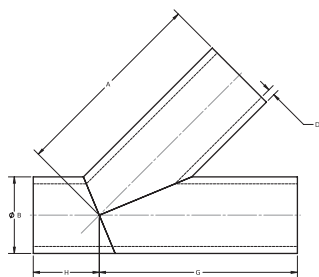
Table continues next page



Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)
26×14	17	360 061 733	36.00	26.00	14.00	10.00	26.00	39.00	0.824	1.529
26×16	17	360 061 734	38.00	26.00	16.00	10.00	27.00	40.00	0.941	1.529
26×18	17	360 061 735	40.00	26.00	18.00	10.00	27.00	40.00	1.059	1.529
28×3	17	360 061 738	24.50	28.00	3.50	10.00	11.25	25.25	0.206	1.647
28×4	17	360 061 702	26.63	28.00	4.50	10.00	11.25	25.25	0.265	1.647
28×6	17	360 061 703	28.63	28.00	6.63	10.00	12.00	26.00	0.390	1.647
28×8	17	360 061 704	30.75	28.00	8.63	10.00	20.50	34.50	0.507	1.647
28×10	17	360 061 705	32.75	28.00	10.75	10.00	21.25	35.25	0.632	1.647
28×12	17	360 061 706	35.00	28.00	12.75	10.00	23.50	37.50	0.750	1.647
28×14	17	360 061 707	36.00	28.00	14.00	10.00	26.25	40.25	0.824	1.647
28×16	17	360 061 708	38.00	28.00	16.00	10.00	27.25	41.25	0.941	1.647
28×18	17	360 032 104	40.00	28.00	18.00	10.00	27.25	41.25	1.059	1.647
30×3	17	360 061 742	24.50	30.00	3.50	10.00	11.50	26.50	0.206	1.765
30×4	17	360 061 743	26.63	30.00	4.50	10.00	11.25	26.25	0.265	1.765
30×6	17	360 019 228	28.63	30.00	6.63	10.00	12.00	27.00	0.390	1.765
30×8	17	360 061 744	30.75	30.00	8.63	10.00	20.50	35.50	0.507	1.765
30×10	17	360 019 230	32.75	30.00	10.75	10.00	21.50	36.50	0.632	1.765
30×12	17	360 019 232	35.00	30.00	12.75	10.00	23.75	38.75	0.750	1.765
30×14	17	360 061 745	36.00	30.00	14.00	10.00	26.50	41.50	0.824	1.765
30×16	17	360 061 746	38.00	30.00	16.00	10.00	27.50	42.50	0.941	1.765
30×18	17	360 061 747	40.00	30.00	18.00	10.00	27.50	42.50	1.059	1.765
30×20	17	360 028 142	42.00	30.00	20.00	10.00	27.50	42.50	1.176	1.765
32×3	17	360 061 709	24.50	32.00	3.50	10.00	11.50	27.50	0.206	1.882
32×4	17	360 061 710	26.63	32.00	4.50	10.00	11.50	27.50	0.265	1.882
32×6	17	360 029 011	28.63	32.00	6.63	10.00	12.25	28.25	0.390	1.882
32×8	17	360 029 012	30.75	32.00	8.63	10.00	20.75	36.75	0.507	1.882
32×10	17	360 061 711	32.75	32.00	10.75	10.00	21.75	37.75	0.632	1.882
32×12	17	360 061 712	35.00	32.00	12.75	10.00	24.00	40.00	0.750	1.882
32×14	17	360 061 750	36.00	32.00	14.00	10.00	26.75	42.75	0.824	1.882
32×16	17	360 061 751	38.00	32.00	16.00	10.00	27.75	43.75	0.941	1.882
32×18	17	360 061 752	40.00	32.00	18.00	10.00	27.75	43.75	1.059	1.882
32×20	17	360 061 753	42.00	32.00	20.00	10.00	27.75	43.75	1.176	1.882
36×3	17	360 061 714	24.50	36.00	3.50	10.00	12.00	30.00	0.206	2.118
36×4	17	360 061 715	26.63	36.00	4.50	10.00	11.50	29.50	0.265	2.118
36×6	17	360 019 240	28.63	36.00	6.63	10.00	12.50	30.50	0.390	2.118
36×8	17	360 019 242	30.75	36.00	8.63	10.00	21.00	39.00	0.507	2.118
36×10	17	360 061 716	32.75	36.00	10.75	10.00	22.25	40.25	0.632	2.118
36×12	17	360 019 245	35.00	36.00	12.75	10.00	24.50	42.50	0.750	2.118
36×14	17	360 061 717	36.00	36.00	14.00	10.00	27.25	45.25	0.824	2.118
36×16	17	360 019 247	38.00	36.00	16.00	10.00	28.25	46.25	0.941	2.118
36×18	17	360 032 105	40.00	36.00	18.00	10.00	28.25	46.25	1.059	2.118
36×20	17	360 061 758	42.00	36.00	20.00	10.00	28.25	46.25	1.176	2.118
36×24	17	360 019 263	46.00	36.00	24.00	10.00	29.25	47.25	1.412	2.118

Design-Flow Wye 45 Butt PE4710 SDR11 IPS - Fabricated

125 PSI rated. For full pressure and/or additional sizes, contact factory.



Size	SDR	Part Number	A (inch)	B (inch)	D (inch)	G (inch)	H (inch)	Weight (lb)
4	11	360 017 395	22.00	4.50	0.41	22.00	7.00	8.55
6	11	360 017 399	28.00	6.63	0.60	28.00	7.00	22.55
8	11	360 017 404	30.00	8.63	0.78	30.00	8.00	40.46
10	11	360 017 408	31.00	10.75	0.98	31.00	8.00	63.11
12	11	360 017 412	33.00	12.75	1.16	33.00	11.00	96.57
14	11	360 017 416	42.00	14.00	1.27	42.00	11.00	146.17
16	11	360 017 421	44.00	16.00	1.45	44.00	13.00	200.90
18	11	360 017 425	57.00	18.00	1.64	57.00	14.00	327.49
20	11	360 017 429	65.00	20.00	1.82	65.00	14.00	455.64
22	11	360 017 433	67.00	22.00	2.00	67.00	14.00	561.56
24	11	360 017 437	69.00	24.00	2.18	69.00	15.00	685.62
26	11	360 017 440	70.00	26.00	2.36	70.00	17.00	818.94
28	11	360 017 443	71.00	28.00	2.55	71.00	18.00	958.98
30	11	360 017 446	90.00	30.00	2.73	90.00	18.00	1,393.13
32	11	360 017 449	91.00	32.00	2.91	91.00	19.00	1,597.59
36	11	360 017 455	95.00	36.00	3.27	95.00	20.00	2,088.30

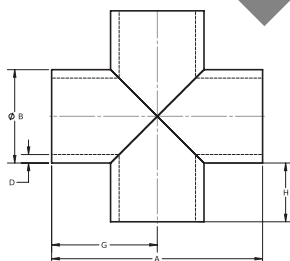
Design-Flow Wye 45 Butt PE4710 SDR17 IPS - Fabricated

Additional sizes available; contact factory

Size	SDR	Part Number	A (inch)	B (inch)	D (inch)	G (inch)	H (inch)	Weight (lb)
4	17	360 017 396	22.00	4.50	0.26	22.00	7.00	5.72
6	17	360 017 400	28.00	6.63	0.39	28.00	7.00	15.07
8	17	360 017 405	30.00	8.63	0.51	30.00	8.00	26.98
10	17	360 017 409	31.00	10.75	0.63	31.00	8.00	42.06
12	17	360 017 413	33.00	12.75	0.75	33.00	11.00	64.35
14	17	360 017 417	42.00	14.00	0.82	42.00	11.00	97.51
16	17	360 017 422	44.00	16.00	0.94	44.00	13.00	133.85
18	17	360 017 426	57.00	18.00	1.06	57.00	14.00	218.51
20	17	360 017 430	65.00	20.00	1.18	65.00	14.00	303.84
22	17	360 017 434	67.00	22.00	1.29	67.00	14.00	374.41
24	17	360 017 438	69.00	24.00	1.41	69.00	15.00	457.07
26	17	360 017 441	70.00	26.00	1.53	70.00	17.00	545.51
28	17	360 017 444	71.00	28.00	1.65	71.00	18.00	638.92
30	17	360 017 447	90.00	30.00	1.76	90.00	18.00	929.07
32	17	360 017 450	91.00	32.00	1.88	91.00	19.00	1,064.71
36	17	360 017 456	95.00	36.00	2.12	95.00	20.00	1,391.44

Design-Flow Line Cross Butt PE4710 SDR11 IPS - Fabricated with Reducer

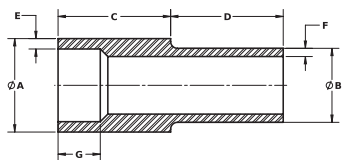
125 PSI rated. For full pressure and/or additional sizes, contact factory.



Size	SDR	Part Number	A (inch)	B (inch)	D (inch)	G (inch)	H (inch)	Weight (lb)
4	11	360 017 080	16.50	4.50	0.41	8.25	7.00	5.72
6	11	360 017 083	18.60	6.63	0.60	9.30	7.00	15.07
8	11	360 017 087	24.60	8.63	0.78	12.30	8.00	26.98
10	11	360 017 091	26.80	10.75	0.98	13.40	8.00	42.06
12	11	360 017 095	28.80	12.75	1.16	14.40	11.00	64.35

Design-Flow Reducer Bushing Butt PE4710 SDR11 IPS - Fabricated

Additional sizes available; contact factory

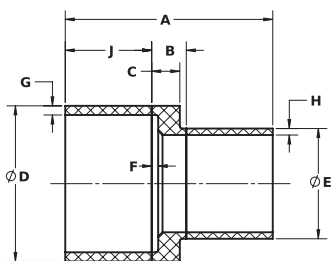


Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	Weight (lb)
14×10	11	360018417	14.00	10.75	7.00	7.00	1.27	0.98	1.50	29.39
14×12	11	360018421	14.00	12.75	7.00	7.00	1.27	1.16	1.50	31.60
16×12	11	360018433	16.00	12.75	7.00	7.00	1.45	1.16	1.50	43.80
16×14	11	360018437	16.00	14.00	7.00	7.00	1.45	1.27	1.50	42.16
18×16	11	360018448	18.00	16.00	7.00	7.00	1.64	1.45	1.50	53.04
20×18	11	360018460	20.00	18.00	7.00	7.00	1.82	1.64	1.50	65.18
22×20	11	360018471	22.00	20.00	7.00	7.00	2.00	1.82	1.50	78.55
24×20	11	360018485	24.00	20.00	9.00	9.00	2.18	1.82	1.50	128.46
24×22	11	360018489	24.00	22.00	9.00	9.00	2.18	2.00	1.50	122.49
18×14	11	360018444	18.00	14.00	7.00	7.00	1.64	1.27	1.50	56.00
20×16	11	360018456	20.00	16.00	7.00	7.00	1.82	1.45	1.50	58.80
22×18	11	360018466	22.00	18.00	7.00	7.00	2.00	1.64	1.50	82.28
22×20	11	360018471	22.00	20.00	7.00	7.00	2.00	1.82	1.50	78.55
24×22	11	360018489	24.00	22.00	9.00	9.00	2.18	2.00	1.50	122.49
26×24	11	360018496	26.00	24.00	9.00	9.00	2.36	2.18	1.50	143.30
28×24	11	360018500	28.00	24.00	9.00	9.00	2.55	2.18	1.50	172.83

Design-Flow Reducer Bushing Butt PE4710 SDR17 IPS - Fabricated

Additional sizes available; contact factory

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	Weight (lb)
14×10	17	360018418	14.00	10.75	7.00	7.00	0.82	0.63	1.50	56.34
14×12	17	360018422	14.00	12.75	7.00	7.00	0.82	0.75	1.50	22.08
16×12	17	360018434	16.00	12.75	7.00	7.00	0.94	0.75	1.50	33.10
16×14	17	360018438	16.00	14.00	7.00	7.00	0.94	0.82	1.50	30.27
18×16	17	360018450	18.00	16.00	7.00	7.00	1.06	0.94	1.50	37.70
20×18	17	360018462	20.00	18.00	7.00	7.00	1.18	1.06	1.50	45.92
22×20	17	360018473	22.00	20.00	7.00	7.00	1.29	1.18	1.50	54.94
24×20	17	360018486	24.00	20.00	9.00	9.00	1.41	1.18	1.50	95.28
24×22	17	360018491	24.00	22.00	9.00	9.00	1.41	1.29	1.50	85.38
18×14	17	360018445	18.00	14.00	7.00	7.00	1.06	0.82	1.50	42.77
20×16	17	360018457	20.00	16.00	7.00	7.00	1.18	0.94	1.50	115.24
22×18	17	360018462	22.00	18.00	7.00	7.00	1.29	1.06	1.50	61.36
22×20	17	360018473	22.00	20.00	7.00	7.00	1.29	1.18	1.50	54.94
24×22	17	360018491	24.00	22.00	9.00	9.00	1.41	1.29	1.50	85.38
26×24	17	360032028	26.00	24.00	9.00	9.00	1.53	1.41	1.50	99.33
28×18	17	360018499	28.00	18.00	9.00	9.00	1.65	1.06	1.50	155.79
28×24	17	360018501	28.00	24.00	9.00	9.00	1.65	1.41	1.50	126.10
30×24	17	360018507	30.00	24.00	9.00	9.00	1.76	1.41	1.50	154.86
36×30	17	360028951	36.00	30.00	9.00	9.00	2.12	1.76	1.50	214.90



Design-Flow Reducer Bushing Butt PE4710 SDR11 IPS - Fabricated

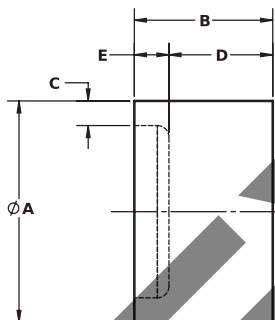
Additional sizes available; contact factory

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)	J (inch)	Weight (lb)
30×12	11	360061827	35.25	5.25		30.00	12.75		2.73	1.16	15.00	244.82
30×18	11	360061166	34.25	4.25		30.00	18.00		2.73	1.64	15.00	235.97
30×20	11	360018505	34.25	4.25		30.00	20.00		2.73	1.82	15.00	241.83
30×24	11	360018506	34.25	4.25		30.00	24.00		2.73	2.18	15.00	255.40
32×20	11	360018505	35.25	5.25		32.00	20.00		2.91	1.82	15.00	291.26
32×24	11	360018512	35.25	5.25		32.00	24.00		2.91	2.18	15.00	301.66
36×18	11	360061831	35.25	5.25		36.00	18.00		3.27	1.64	15.00	357.86
36×20	11	360061832	35.25	5.25		36.00	20.00		3.27	1.82	15.00	362.35
36×24	11	360018517	35.25	5.25		36.00	24.00		3.27	2.18	15.00	372.75
36×30	11	360018519	35.25	5.25		36.00	30.00		3.27	2.73	15.00	391.89

Design-Flow Reducer Bushing Butt PE4710 SDR11 IPS - Fabricated

Additional sizes available; contact factory

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)	J (inch)	Weight (lb)
28×20	11	360061771	33.25	3.25		28.00	20.00		1.65	1.18	15.00	143.00
30×12	11	360028797	35.25	5.25		30.00	12.75		1.77	0.75	15.00	193.50
30×18	11	360028257	33.25	3.25		30.00	18.00		1.77	1.06	15.00	158.55
30×20	11	360028799	33.25	3.25		30.00	20.00		1.77	1.18	15.00	161.71
32×20	11	360061772	33.25	3.25		32.00	20.00		1.88	1.18	15.00	181.70
36×18	11	360018515	35.25	5.25		36.00	18.00		2.12	1.06	15.00	278.61
36×20	11	360018516	34.25	4.25		36.00	20.00		2.12	1.18	15.00	252.06
36×24	11	360018518	34.25	4.25		36.00	24.00		2.12	1.41	15.00	255.68

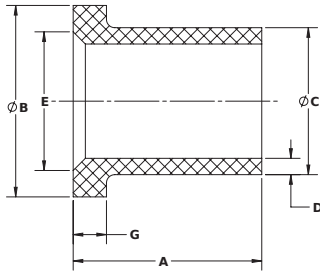


Design-Flow Caps PE4710 Butt SDR11 - Fabricated

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	Weight (lb)
16	11	360 015 453	16.00	5.00	1.45	3.38	0.75	31.10
18	11	360 015 456	18.00	5.00	1.64	0.38	0.75	39.36
20	11	360 015 459	20.00	5.00	1.82	4.20	0.75	48.60
22	11	360 015 462	22.00	6.00	2.00	4.65	0.75	71.87
24	11	360 015 465	24.00	6.00	2.18	5.06	0.75	85.54
28	11	360 015 468	28.00	6.00	2.55	5.50	0.50	119.97

Design-Flow Caps PE4710 Butt SDR17 - Fabricated

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	Weight (lb)
14	17	360 015 451	14.00	4.00	0.82	3.00	0.75	18.08
16	17	360 015 454	16.00	4.00	0.94	2.87	0.75	23.62
18	17	360 015 457	18.00	4.00	1.06	3.22	0.75	29.89
22	17	360 015 463	22.00	5.00	1.29	3.70	0.75	57.73
24	17	360 015 466	24.00	5.00	1.41	4.00	1.00	65.68



Design-Flow Flange Adaptor PE4710 IPS SDR11 - For Butterfly Valve

45° chamfer, verify dimensions prior to use

Additional sizes and chamfers available upon request

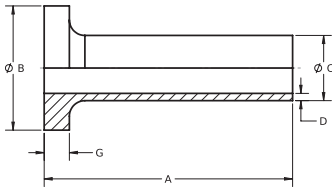
Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	Weight (lb)
3	11	360 000 055	6.50	5.00	3.50	0.32	3.25	1.25	1.14
4	11	360 000 056	6.50	6.63	4.50	0.41	4.33	1.25	1.97
6	11	360 001 565	8.50	8.63	6.63	0.60	6.25	1.50	4.55
8	11	360 001 589	9.00	10.75	8.63	0.78	8.00	1.75	7.89
10	11	360 021 844	9.50	12.75	10.75	0.98	10.00	2.00	12.29
12	11	360 001 439	11.50	15.00	12.75	1.16	12.00	2.25	20.40

Design-Flow Flange Adaptor PE4710 IPS SDR17 - For Butterfly Valve

45° chamfer, verify dimensions prior to use

Additional sizes and chamfers available upon request

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	Weight (lb)
3	17	360 003 509	6.50	5.00	3.50	0.21	3.25	1.25	0.90
4	17	360 001 556	6.50	6.63	4.50	0.26	4.33	1.25	1.58
6	17	360 000 017	8.50	8.63	6.63	0.39	6.25	1.50	3.46
8	17	360 001 593	9.00	10.75	8.63	0.51	8.00	1.75	5.92
10	17	360 016 962	9.50	12.75	10.75	0.63	10.00	2.00	9.07
12	17	360 016 963	11.50	15.00	12.75	0.75	12.00	2.25	14.91



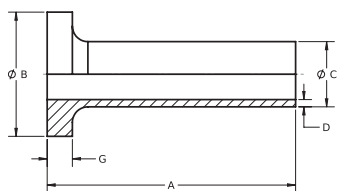
Design-Flow Flange Adaptor PE 4710 IPS SDR7

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	G (inch)	Weight (lb)
10	7	360 001 430	11.00	12.75	10.75	1.54	2.00	19.27
12	7	360 001 448	11.00	15.00	12.75	1.82	2.28	27.38
14	7	360 016 753	11.00	17.50	14.00	2.00	2.50	35.81
16	7	360 016 762	12.00	20.00	16.00	2.29	2.88	51.60
18	7	360 016 772	12.00	21.12	18.00	2.57	3.25	61.87
20	7	360 016 780	13.00	23.50	20.00	2.86	3.63	83.33
22	7	360 016 790	13.00	25.60	22.00	3.14	3.94	101.02
24	7	360 016 798	14.00	28.00	24.00	3.43	4.29	130.20

Design-Flow Flange Adaptor PE 4710 IPS SDR9

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	G (inch)	Weight (lb)
6	9	360 001 582	8.00	8.50	6.63	0.74	1.00	4.49
8	9	360 001 601	9.00	10.63	8.63	0.96	1.25	8.40
10	9	360 001 432	10.00	12.75	10.75	1.19	1.50	14.17
12	9	360 001 450	11.00	15.00	12.75	1.42	1.88	22.15
14	9	360 016 754	11.00	17.50	14.00	1.56	2.00	28.84
16	9	360 016 763	12.00	20.00	16.00	1.78	2.25	41.35
18	9	360 016 773	12.00	21.12	18.00	2.00	2.50	49.51
20	9	360 016 781	12.00	23.50	20.00	2.22	2.88	62.76
22	9	360 016 791	12.00	25.60	22.00	2.44	3.13	76.09
24	9	360 016 799	14.00	28.00	24.00	2.67	3.36	104.47
26	9	360 016 810	15.00	30.00	26.00	2.89	3.63	129.56
28	9	360 016 818	15.70	32.00	28.00	3.11	3.88	155.77
30	9	360 016 828	15.90	34.10	30.00	3.33	4.19	181.61
32	9	360 016 838	16.00	36.50	32.00	3.56	4.50	211.38
36	9	360 016 853	18.30	40.80	36.00	4.00	5.00	301.53

Design-Flow Flange Adaptor PE 4710 IPS SDR11

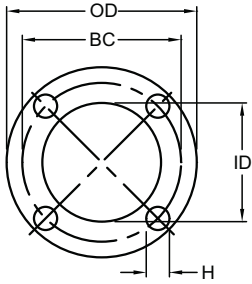


Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	G (inch)	Weight (lb)
2	11	360 000 054	5.50	3.90	2.38	0.22	0.39	0.38
3	11	360 000 055	6.00	5.00	3.50	0.32	0.41	0.79
4	11	360 000 056	6.00	6.60	4.50	0.41	0.50	1.39
6	11	360 000 057	8.00	8.50	6.63	0.60	0.78	3.72
8	11	360 000 058	9.00	10.63	8.63	0.78	1.00	6.99
10	11	360 003 451	10.00	12.75	10.75	0.98	1.28	11.89
12	11	360 001 439	11.00	15.00	12.75	1.16	1.54	18.48
14	11	360 001 452	11.00	17.50	14.00	1.27	1.63	23.99
16	11	360 001 469	12.00	20.00	16.00	1.46	1.88	34.58
18	11	360 001 482	12.00	21.12	18.00	1.64	2.00	41.12
20	11	360 016 782	12.00	23.50	20.00	1.82	2.27	51.97
22	11	360 016 792	12.00	25.60	22.00	2.00	2.50	63.15
24	11	360 016 800	14.00	28.00	24.00	2.18	2.75	87.07
26	11	360 016 811	15.00	30.00	26.00	2.36	3.00	108.22
28	11	360 016 819	15.00	32.00	28.00	2.55	3.25	125.50
30	11	360 016 829	15.00	34.10	30.00	2.73	3.50	144.73
32	11	360 016 839	15.00	36.50	32.00	2.91	3.63	166.59
36	11	360 016 854	17.50	40.80	36.00	3.27	4.13	242.52

Design-Flow Flange Adaptor PE 4710 IPS SDR17

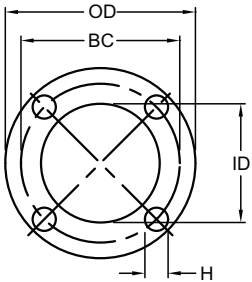
Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	G (inch)	Weight (lb)
2	17	360 003 508	5.50	3.90	2.38	0.14	0.39	0.29
3	17	360 003 509	6.00	5.00	3.50	0.21	0.40	0.57
4	17	360 001 556	6.00	6.60	4.50	0.27	0.50	1.04
6	17	360 000 017	8.00	8.50	6.63	0.39	0.78	2.69
8	17	360 001 594	9.00	10.63	8.63	0.51	1.00	5.02
10	17	360 004 436	10.00	12.75	10.75	0.63	1.28	8.50
12	17	360 001 443	11.00	15.00	12.75	0.75	1.54	13.23
14	17	360 001 457	11.00	17.50	14.00	0.82	1.63	17.66
16	17	360 001 474	12.00	20.00	16.00	0.94	1.88	25.55
18	17	360 001 486	12.00	21.12	18.00	1.06	2.00	29.72
20	17	360 016 783	12.00	23.50	20.00	1.18	2.27	37.88
22	17	360 016 793	12.00	25.60	22.00	1.29	2.50	46.10
24	17	360 016 802	14.00	28.00	24.00	1.41	2.75	63.41
26	17	360 016 812	14.00	30.00	26.00	1.53	2.50	71.40
28	17	360 016 822	14.50	32.00	28.00	1.65	2.63	84.64
30	17	360 016 831	15.00	34.10	30.00	1.77	2.78	100.04
32	17	360 016 841	15.00	36.50	32.00	1.88	3.00	116.32
36	17	360 016 856	17.00	40.80	36.00	2.12	3.00	160.96

Flange Ring IPS - Black Epoxy Coated Ductile Iron - ANSI



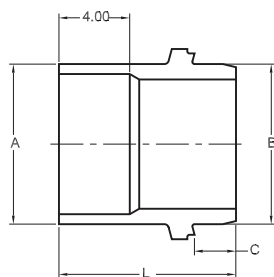
Size	SDR	Part Number	I.D. (inch)	O.D. (inch)	# Bolt Holes	Weight (lb)
2	17	360 014 908	2.50	6.00	4.00	2.650
3	17	360 014 912	3.63	7.50	4.00	4.191
4	17	360 014 916	4.63	9.00	8.00	5.291
6	17	360 014 921	6.75	11.00	8.00	7.280
8	17	360 014 925	8.75	13.50	8.00	11.901
10	17	360 014 929	10.94	16.00	12.00	15.320
12	17	360 014 933	13.00	19.00	12.00	24.690
14	17	360 014 938	14.38	21.00	12.00	28.440
16	17	360 014 943	16.19	23.50	16.00	38.801
18	17	360 014 948	18.38	25.00	16.00	41.672
20	17	360 014 953	20.38	27.50	20.00	56.441
22	17	360 014 958	22.38	29.50	20.00	79.812
24	17	360 014 962	24.38	32.00	20.00	79.812
26	17	360 014 967	26.38	34.25	24.00	102.513
28	17	360 014 970	28.38	36.50	28.00	129.632
30	17	360 014 974	30.38	38.75	28.00	138.232
32	17	360 014 977	32.38	41.75	28.00	164.465
36	17	360 014 982	36.38	46.00	32.00	213.844

Flange Ring IPS - Stainless Steel 316 - ANSI



Size	SDR	Part Number	I.D. (inch)	O.D. (inch)	# Bolt Holes	Weight (lb)
2	17	360 0015 074	2.50	6.00	4.00	2.600
3	17	360 0015 078	3.63	7.50	4.00	4.800
4	17	360 0015 082	4.63	9.00	8.00	5.900
6	17	360 0015 087	6.75	11.00	8.00	8.000
8	17	360 0015 091	8.75	13.50	8.00	13.000
10	17	360 0015 095	10.94	16.00	12.00	16.000
12	17	360 0015 099	13.00	19.00	12.00	27.000
14	17	360 0015 103	14.38	21.00	12.00	31.000
16	17	360 0015 107	16.38	23.50	16.00	42.000
18	17	360 0015 111	18.38	25.00	16.00	46.000
20	17	360 0015 115	20.38	27.50	20.00	58.000
22	17	360 0015 119	22.38	29.50	20.00	69.000
24	17	360 0015 123	24.38	32.00	20.00	87.000
26	17	360 0015 127	26.38	34.25	24.00	109.000
28	17	360 0015 130	28.38	36.50	28.00	130.000
30	17	360 0015 133	30.38	38.75	28.00	140.000
32	17	360 0015 136	32.38	41.75	28.00	165.000
36	17	360 0015 141	36.38	46.00	32.00	214.000

Design-Flow MJ Adaptor PE4710 IPS SDR9



Size	SDR	Part Number	B (inch)	F (inch)	C (inch)	A (inch)	G (inch)	H (inch)	E (inch)	D (inch)	Weight (lb)
2	9	360 017 703	4.93	2.50	2.38	8.00	4.25	3.75	0.25	0.26	0.64
3	9	360 029 091	5.38	3.96	3.50	8.50	4.25	4.25	0.39	0.39	1.51
4	9	360 029 094	6.63	4.80	4.50	8.00	4.25	3.75	0.47	0.50	2.34
6	9	360 029 099	8.63	6.90	6.63	9.50	4.25	5.25	0.67	0.74	5.19
8	9	360 029 105	10.75	9.05	8.63	11.50	4.88	6.62	0.89	0.96	10.77
10	9	360 029 086	12.75	11.10	10.75	13.00	4.88	8.12	1.09	1.19	17.80
12	9	360 001 814	15.25	13.20	12.75	13.50	5.13	8.37	1.29	1.42	26.48
14	9	360 062 341	17.50	15.30	14.00	13.50	6.13	7.37	1.50	1.56	36.16
16	9	360 062 342	20.00	17.40	16.00	14.50	6.13	8.37	1.60	1.78	49.34
18	9	360 062 343	22.00	19.50	18.00	16.00	6.38	9.62	1.92	2.00	67.92
20	9	360 062 344	24.00	21.60	20.00	16.50	6.63	9.87	2.12	2.22	85.65
24	9	360 062 345	28.00	25.80	24.00	18.00	6.88	11.12	2.54	2.67	130.23

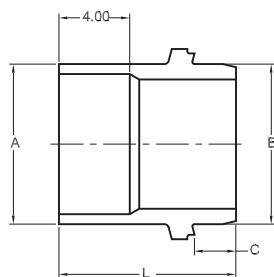
Design-Flow MJ Adaptor PE4710 IPS SDR9 - with Stiffener

Size	SDR	Part Number	B (inch)	F (inch)	C (inch)	A (inch)	G (inch)	H (inch)	E (inch)	D (inch)	Weight (lb)
2	9	360 017 702	4.93	2.50	2.38	8.00	4.25	3.75	0.25	0.26	0.86
3	9	360 001 925	5.38	3.96	3.50	8.50	4.25	4.25	0.39	0.39	2.13
4	9	360 001 942	6.63	4.80	4.50	8.00	4.25	3.75	0.47	0.50	3.10
6	9	360 001 962	8.63	6.90	6.63	9.50	4.25	5.25	0.67	0.74	6.29
8	9	360 001 983	10.75	9.05	8.63	11.50	4.88	6.62	0.89	0.96	12.22
10	9	360 029 085	12.75	11.10	10.75	13.00	4.88	8.12	1.09	1.19	19.58
12	9	360 029 089	15.25	13.20	12.75	13.50	5.13	8.37	1.29	1.42	28.60
14	9	360 017 781	17.50	15.30	14.00	13.50	6.13	7.37	1.50	1.56	38.62
16	9	360 017 789	20.00	17.40	16.00	14.50	6.13	8.37	1.60	1.78	52.18
18	9	360 017 797	22.00	19.50	18.00	16.00	6.38	9.62	1.92	2.00	71.06
20	9	360 017 805	24.00	21.60	20.00	16.50	6.63	9.87	2.12	2.22	89.13
24	9	360 017 812	28.00	25.80	24.00	18.00	6.88	11.12	2.54	2.67	134.39

Design-Flow MJ Adaptor PE4710 IPS SDR11

Size	SDR	Part Number	B (inch)	F (inch)	C (inch)	A (inch)	G (inch)	H (inch)	E (inch)	D (inch)	Weight (lb)
2	11	360 017 705	4.93	2.50	2.38	8.00	4.25	3.75	0.25	0.22	0.60
3	11	360 003 462	5.38	3.96	3.50	8.50	4.25	4.25	0.39	0.32	1.43
4	11	360 003 464	6.63	4.80	4.50	8.00	4.25	3.75	0.47	0.41	2.21
6	11	360 022 242	8.63	6.90	6.63	9.50	4.25	5.25	0.67	0.60	4.85
8	11	360 003 467	10.75	9.05	8.63	11.50	4.88	6.62	0.89	0.78	10.04
10	11	360 004 432	12.75	11.10	10.75	13.00	4.88	8.12	1.09	0.98	16.48
12	11	360 003 483	15.25	13.20	12.75	13.50	5.13	8.37	1.29	1.16	24.54
14	11	360 017 783	17.50	15.30	14.00	13.50	6.13	7.37	1.50	1.27	33.86
16	11	360 017 791	20.00	17.40	16.00	14.50	6.13	8.37	1.60	1.45	46.11
18	11	360 017 799	22.00	19.50	18.00	16.00	6.38	9.62	1.92	1.64	63.28
20	11	360 017 813	24.00	21.60	20.00	16.50	6.63	9.87	2.12	1.82	79.71

Design-Flow MJ Adaptor PE4710 IPS SDR11 - with Stiffener



Size	SDR	Part Number	B (inch)	F (inch)	C (inch)	A (inch)	G (inch)	H (inch)	E (inch)	D (inch)	Weight (lb)
2	11	360 017 704	4.93	2.50	2.38	8.00	4.25	3.75	0.25	0.22	0.82
3	11	360 022 236	5.38	3.96	3.50	8.50	4.25	4.25	0.39	0.32	2.05
4	11	360 022 238	6.63	4.80	4.50	8.00	4.25	3.75	0.47	0.41	2.97
6	11	360 022 243	8.63	6.90	6.63	9.50	4.25	5.25	0.67	0.60	5.95
8	11	360 003 506	10.75	9.05	8.63	11.50	4.88	6.62	0.89	0.78	11.49
10	11	360 022 231	12.75	11.10	10.75	13.00	4.88	8.12	1.09	0.98	18.26
12	11	360 022 235	15.25	13.20	12.75	13.50	5.13	8.37	1.29	1.16	26.66
14	11	360 017 782	17.50	15.30	14.00	13.50	6.13	7.37	1.50	1.27	36.32
16	11	360 017 790	20.00	17.40	16.00	14.50	6.13	8.37	1.60	1.45	48.95
18	11	360 017 798	22.00	19.50	18.00	16.00	6.38	9.62	1.92	1.64	66.42
20	11	360 017 806	24.00	21.60	20.00	16.50	6.63	9.87	2.12	1.82	83.19

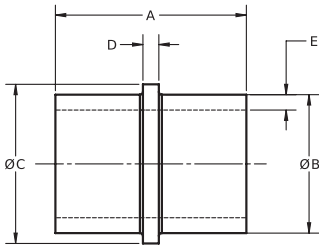
Design-Flow MJ Adaptor PE4710 IPS SDR17

Size	SDR	Part Number	B (inch)	F (inch)	C (inch)	A (inch)	G (inch)	H (inch)	E (inch)	D (inch)	Weight (lb)
3	17	360 017 717	5.38	3.96	3.50	8.50	4.25	4.25	0.39	0.21	1.34
4	17	360 022 239	6.63	4.80	4.50	8.00	4.25	3.75	0.47	0.26	2.08
6	17	360 029 098	8.63	6.90	6.63	9.50	4.25	5.25	0.67	0.39	4.52
8	17	360 029 103	10.75	9.05	8.63	11.50	4.88	6.62	0.89	0.51	9.35
10	17	360 022 232	12.75	11.10	10.75	13.00	4.88	8.12	1.09	0.63	15.28
12	17	360 004 433	15.25	13.20	12.75	13.50	5.13	8.37	1.29	0.75	22.77
14	17	360 029 035	17.50	15.30	14.00	13.50	6.13	7.37	1.50	0.82	31.73
18	17	360 028 644	20.00	17.40	16.00	14.50	6.13	8.37	1.60	1.06	59.11
24	17	360 062 346	22.00	19.50	18.00	16.00	6.38	9.62	1.92	1.41	112.36
36	17	360 062 347	24.00	21.60	20.00	16.50	6.63	9.87	2.12	2.12	269.14

Design-Flow MJ Adaptor PE4710 IPS SDR17 - with Stiffener

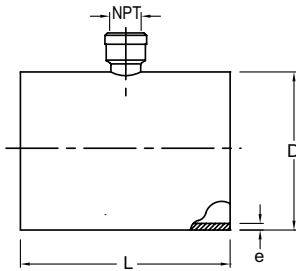
Size	SDR	Part Number	B (inch)	F (inch)	C (inch)	A (inch)	G (inch)	H (inch)	E (inch)	D (inch)	Weight (lb)
3	17	360 001 923	5.38	3.96	3.50	8.50	4.25	4.25	0.39	0.21	1.96
4	17	360 029 093	6.63	4.80	4.50	8.00	4.25	3.75	0.47	0.26	2.84
6	17	360 001 959	8.63	6.90	6.63	9.50	4.25	5.25	0.67	0.39	5.62
8	17	360 029 104	10.75	9.05	8.63	11.50	4.88	6.62	0.89	0.51	10.80
10	17	360 001 793	12.75	11.10	10.75	13.00	4.88	8.12	1.09	0.63	17.06
12	17	360 001 813	15.25	13.20	12.75	13.50	5.13	8.37	1.29	0.75	24.89
14	17	360 017 784	17.50	15.30	14.00	13.50	6.13	7.37	1.50	0.82	34.19
18	17	360 017 800	20.00	17.40	16.00	14.50	6.13	8.37	1.60	1.06	62.25
24	17	360 017 816	22.00	19.50	18.00	16.00	6.38	9.62	1.92	1.41	116.52
36	17	360 017 823	24.00	21.60	20.00	16.50	6.63	9.87	2.12	2.12	279.99

Thrust Restraint/Water Stop



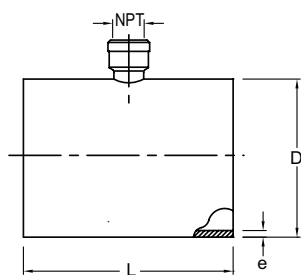
Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	Weight (lb)
2	11	360 019 621	12.00	2.38	3.50	2.00	0.22	0.96
3	11	360 019 625	12.00	3.50	5.00	2.00	0.32	2.00
4	11	360 019 629	12.00	4.50	6.60	2.00	0.41	3.42
6	11	360 019 636	12.00	6.63	8.50	2.00	0.60	6.22
8	11	360 029 127	16.00	8.63	10.63	2.00	0.78	12.69
10	11	360 029 126	18.00	10.75	12.75	2.00	0.98	21.07
12	11	360 019 655	22.00	12.75	15.00	2.00	1.16	35.24
14	11	360 019 661	22.00	14.00	17.50	2.00	1.27	44.38
18	11	360 019 672	24.00	18.00	21.12	2.00	1.64	75.89
20	11	360 019 677	24.00	20.00	23.50	2.00	1.82	93.77
24	11	360 019 688	28.00	24.00	28.00	2.00	2.18	154.96

Instrument Installation Fitting, Butt Fusion × FNPT, GF PE100, SDR 11



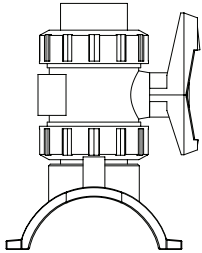
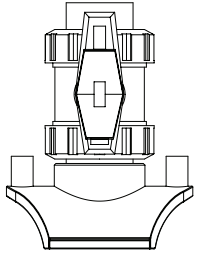
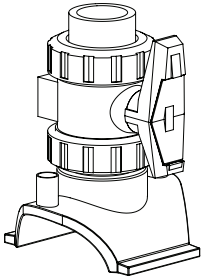
d (mm)	NPT (inch)	SDR	Part No.	L (inch)	e (inch)
14	1/2	11	153 918 711	12.00	1.273
14	3/4	11	153 918 712	12.00	1.273
14	1	11	153 918 713	12.00	1.273
16	1/2	11	153 918 714	12.00	1.455
16	3/4	11	153 918 715	12.00	1.455
16	1	11	153 918 716	12.00	1.455
18	1/2	11	153 918 717	12.00	1.636
18	3/4	11	153 918 718	12.00	1.636
18	1	11	153 918 719	12.00	1.636
20	1/2	11	153 918 720	12.00	1.818
20	3/4	11	153 918 721	12.00	1.818
20	1	11	153 918 722	12.00	1.818
22	1/2	11	153 918 723	12.00	2.000
22	3/4	11	153 918 724	12.00	2.000
22	1	11	153 918 725	12.00	2.000
24	1/2	11	153 918 726	12.00	2.182
24	3/4	11	153 918 727	12.00	2.182
24	1	11	153 918 728	12.00	2.182

Instrument Installation Fitting, Butt Fusion × FNPT, GF PE100, SDR 17

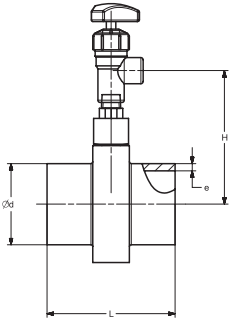


d (mm)	NPT (inch)	SDR	Part No.	L (inch)	e (inch)
6.63	½	17	153 918 899	12.00	0.390
6.63	¾	17	153 918 900	12.00	0.390
6.63	1	17	153 918 901	12.00	0.390
8.63	½	17	153 918 902	12.00	0.507
8.63	¾	17	153 918 903	12.00	0.507
8.63	1	17	153 918 904	12.00	0.507
10.75	½	17	153 918 905	12.00	0.632
10.75	¾	17	153 918 906	12.00	0.632
10.75	1	17	153 918 907	12.00	0.632
12.75	½	17	153 918 908	12.00	0.750
12.75	¾	17	153 918 909	12.00	0.750
12.75	1	17	153 918 910	12.00	0.750
14.00	½	17	153 918 911	12.00	0.824
14.00	¾	17	153 918 912	12.00	0.824
14.00	1	17	153 918 913	12.00	0.824
16.00	½	17	153 918 914	12.00	0.941
16.00	¾	17	153 918 915	12.00	0.941
16.00	1	17	153 918 916	12.00	0.941
18.00	½	17	153 918 917	12.00	1.059
18.00	¾	17	153 918 918	12.00	1.059
18.00	1	17	153 918 919	12.00	1.059
20.00	½	17	153 918 920	12.00	1.176
20.00	¾	17	153 918 921	12.00	1.176
20.00	1	17	153 918 922	12.00	1.176
22.00	½	17	153 918 923	12.00	1.294
22.00	¾	17	153 918 924	12.00	1.294
22.00	1	17	153 918 925	12.00	1.294
24.00	½	17	153 918 926	12.00	1.412
24.00	¾	17	153 918 927	12.00	1.412
24.00	1	17	153 918 928	12.00	1.412
26.00	½	17	153 918 929	16.00	1.529
26.00	¾	17	153 918 930	16.00	1.529
26.00	1	17	153 918 931	16.00	1.529
28.00	½	17	153 918 932	16.00	1.647
28.00	¾	17	153 918 933	16.00	1.647
28.00	1	17	153 918 934	16.00	1.647
30.00	½	17	153 918 935	16.00	1.765
30.00	¾	17	153 918 936	16.00	1.765
30.00	1	17	153 918 937	16.00	1.765
32.00	½	17	153 918 938	16.00	1.882
32.00	¾	17	153 918 939	16.00	1.882
32.00	1	17	153 918 940	16.00	1.882
36.00	½	17	153 918 941	16.00	2.118
36.00	¾	17	153 918 942	16.00	2.118
36.00	1	17	153 918 943	16.00	2.118

**PE100 Electrofusion Type 319 Branch Saddle Valve w/PP Type 546 Ball Valve and
PE Metric Valve End SDR11**

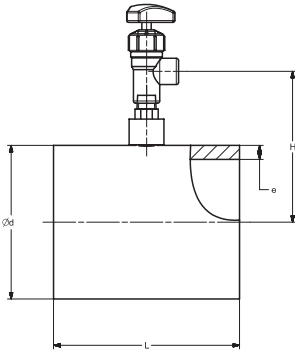


Size (inch)	SDR	PSI	EPDM Part No.	FPM Part No.
2 × 20	11/17	150	153 319 206	153319406
2 × 25	11/17	150	153 319 207	153319407
2 × 32	11/17	150	153 319 208	153319408
2 × 50	11/17	150	153 319 210	153319410
2 × 63	11/17	150	153 319 211	153319411
3 × 20	11/17	150	153 319 216	153319416
3 × 25	11/17	150	153 319 217	153319417
3 × 32	11/17	150	153 319 218	153319418
3 × 50	11/17	150	153 319 220	153319420
3 × 63	11/17	150	153 319 221	153319421
4 × 20	11/17	150	153 319 226	153319426
4 × 25	11/17	150	153 319 227	153319427
4 × 32	11/17	150	153 319 228	153319428
4 × 50	11/17	150	153 319 230	153319430
4 × 63	11/17	150	153 319 231	153319431
6 × 20	11/17	150	153 319 236	153319436
6 × 25	11/17	150	153 319 237	153319437
6 × 32	11/17	150	153 319 238	153319438
6 × 50	11/17	150	153 319 240	153319440
6 × 63	11/17	150	153 319 241	153319441
8 × 20	11/17	150	153 319 246	153319446
8 × 25	11/17	150	153 319 247	153319447
8 × 32	11/17	150	153 319 248	153319448
8 × 50	11/17	150	153 319 250	153319450
8 × 63	11/17	150	153 319 251	153319451
10 × 20	11/17	150	153 319 256	153319456
10 × 25	11/17	150	153 319 257	153319457
10 × 32	11/17	150	153 319 258	153319458
10 × 50	11/17	150	153 319 260	153319460
10 × 63	11/17	150	153 319 261	153319461
12 × 20	11/17	150	153 319 266	153319466
12 × 32	11/17	150	153 319 268	153319468
12 × 50	11/17	150	153 319 270	153319470
12 × 63	11/17	150	153 319 271	153319471



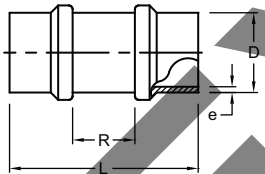
Sampling Valve Assembly Butt PE4710 SDR 17 IPS Polyethylene body with Polypropylene valve

Size (inch)	SDR	Part Number	d (inch)	H (inch)	L (inch)	e (inch)
3	17	153 991 926	3.500		5.510	0.206
4	17	153 991 927	4.500		5.510	0.265



Sampling Valve Assembly Butt PE4710 SDR 17 IPS Polyethylene body with Polypropylene valve

Size (inch)	SDR	Part Number	d (inch)	H (inch)	L (inch)	e (inch)
6	17	153 991 928	6.625		12.000	0.390
8	17	153 991 929	8.625		12.000	0.507
10	17	153 991 930	10.750		12.000	0.632
12	17	153 991 931	12.750		12.000	0.750
14	17	153 991 932	14.000		12.000	0.824
16	17	153 991 933	16.000		12.000	0.941
18	17	153 991 934	18.000		12.000	1.059
20	17	153 991 935	20.000		12.000	1.176
22	17	153 991 936	22.000		12.000	1.294
24	17	153 991 937	24.000		12.000	1.412
26	17	153 991 938	26.000		16.000	1.529
28	17	153 991 939	28.000		16.000	1.647
30	17	153 991 940	30.000		16.000	1.765
32	17	153 991 941	32.000		16.000	1.882
36	17	153 991 942	36.000		16.000	2.118



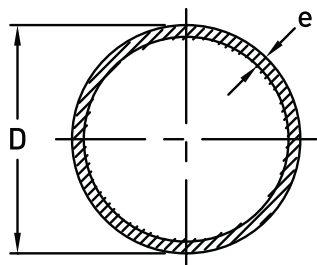
Restraint Fitting Butt SDR11

Size	SDR	Part Number	L (inch)	R (inch)	e (inch)	SP
2	11	153 918 004	4.13	1.26	0.216	5.00
3	11	153 918 005	4.92	1.57	0.318	5.00
4	11	153 918 006	4.92	1.57	0.409	5.00

Restraint Fitting Butt SDR17

Size	SDR	Part Number	L (inch)	R (inch)	e (inch)	SP
2	17	153 918 104	4.13	1.26	0.216	5.00
3	17	153 918 105	4.92	1.57	0.318	5.00
4	17	153 918 106	4.92	1.57	0.409	5.00

Design-Flow Red FM Approved Pipe



Design-Flow Red PE4710 Pipe SDR7 IPS Class 267 - 40 Foot Lengths with Red Stripe

Additional lengths available on special order

Size	SDR	Part Number	D (inch)	e (inch)	Weight (lb)
2	7	360 031 598	2.375	0.339	0.950
3	7	360 031 604	3.500	0.500	2.060
4	7	360 031 610	4.500	0.643	3.400
6	7	360 031 616	6.625	0.946	7.370
8	7	360 031 628	8.625	1.232	12.500
10	7	360 031 640	10.750	1.536	19.420
12	7	360 031 652	12.750	1.821	27.310
14	7	360 031 664	14.000	2.000	32.930
16	7	360 031 676	16.000	2.286	43.010
18	7	360 031 688	18.000	2.571	54.430
20	7	360 031 700	20.000	2.857	67.200
22	7	360 031 712	22.000	3.143	81.320
24	7	360 031 724	24.000	3.429	96.770

Design-Flow Red PE4710 Pipe SDR9 IPS Class 200 - 40 Foot Lengths with Red Stripe

Additional lengths available on special order

Size	SDR	Part Number	D (inch)	e (inch)	Weight (lb)
2	9	360 031 600	2.375	0.264	0.770
3	9	360 031 606	3.500	0.389	1.660
4	9	360 031 612	4.500	0.500	2.750
6	9	360 031 620	6.625	0.736	5.960
8	9	360 031 632	8.625	0.958	10.110
10	9	360 031 644	10.750	1.194	15.700
12	9	360 031 656	12.750	1.417	22.080
14	9	360 031 668	14.000	1.556	26.630
16	9	360 031 680	16.000	1.778	34.780
18	9	360 031 692	18.000	2.000	44.020
20	9	360 031 704	20.000	2.222	54.340
22	9	360 031 716	22.000	2.444	65.750
24	9	360 031 728	24.000	2.667	78.250

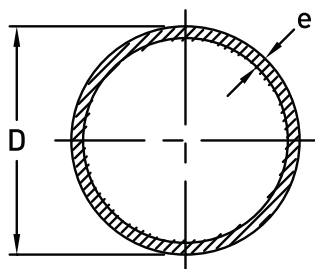
Design-Flow Red PE4710 Pipe SDR11 IPS Class 150 - 40 Foot Lengths with Red Stripe

Additional lengths available on special order

Size	SDR	Part Number	D (inch)	e (inch)	Weight (lb)
2	11	360 031 602	2.375	0.216	0.640
3	11	360 031 608	3.500	0.318	1.390
4	11	360 031 614	4.500	0.409	2.310
6	11	360 031 624	6.625	0.602	5.000
8	11	360 031 636	8.625	0.784	8.470
10	11	360 031 648	10.750	0.977	13.160
12	11	360 031 660	12.750	1.159	18.510
14	11	360 031 672	14.000	1.273	22.320
16	11	360 031 684	16.000	1.455	29.150
18	11	360 031 696	18.000	1.636	36.890
20	11	360 031 708	20.000	1.818	45.540
22	11	360 031 720	22.000	2.000	55.100
24	11	360 031 732	24.000	2.182	65.580

Design-Flow Red PE4710 Pipe SDR7 IPS Class 267 - 50 Foot Lengths with Red Stripe

Additional lengths available on special order



Size	SDR	Part Number	D (inch)	e (inch)	Weight (lb)
8	7	360 031 629	8.625	1.232	12.500
10	7	360 031 641	10.750	1.536	19.420
12	7	360 031 653	12.750	1.821	27.310
14	7	360 031 665	14.000	2.000	32.930
16	7	360 031 677	16.000	2.286	43.010
18	7	360 031 689	18.000	2.571	54.430
20	7	360 031 701	20.000	2.857	67.200
22	7	360 031 713	22.000	3.143	81.320
24	7	360 031 725	24.000	3.429	96.770

Design-Flow Red PE4710 Pipe SDR7 IPS Class 267 - 50 Foot Lengths with Red Stripe

Additional lengths available on special order

Size	SDR	Part Number	D (inch)	e (inch)	Weight (lb)
8	7	360 031 629	8.625	1.232	12.500
10	7	360 031 641	10.750	1.536	19.420
12	7	360 031 653	12.750	1.821	27.310
14	7	360 031 665	14.000	2.000	32.930
16	7	360 031 677	16.000	2.286	43.010
18	7	360 031 689	18.000	2.571	54.430
20	7	360 031 701	20.000	2.857	67.200
22	7	360 031 713	22.000	3.143	81.320
24	7	360 031 725	24.000	3.429	96.770

Design-Flow Red PE4710 Pipe SDR9 IPS Class 200 - 50 Foot Lengths with Red Stripe

Additional lengths available on special order

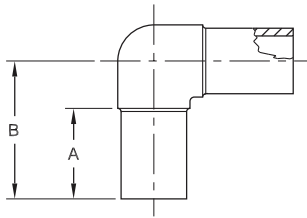
Size	SDR	Part Number	D (inch)	e (inch)	Weight (lb)
6	9	360 031 621	6.625	0.736	5.960
8	9	360 031 633	8.625	0.958	10.110
10	9	360 031 645	10.750	1.194	15.700
12	9	360 031 657	12.750	1.417	22.080
14	9	360 031 669	14.000	1.556	26.630
16	9	360 031 681	16.000	1.778	34.780
18	9	360 031 693	18.000	2.000	44.020
20	9	360 031 705	20.000	2.222	54.340
22	9	360 031 717	22.000	2.444	65.750
24	9	360 031 729	24.000	2.667	78.250

Design-Flow Red PE4710 Pipe SDR11 IPS Class 150 - 50 Foot Lengths with Red Stripe

Additional lengths available on special order

Size	SDR	Part Number	D (inch)	e (inch)	Weight (lb)
6	11	360 031 625	6.625	0.602	5.000
8	11	360 031 637	8.625	0.784	8.470
10	11	360 031 649	10.750	0.977	13.160
12	11	360 031 661	12.750	1.159	18.510
14	11	360 031 673	14.000	1.273	22.320
16	11	360 031 685	16.000	1.455	29.150
18	11	360 031 697	18.000	1.636	36.890
20	11	360 031 709	20.000	1.818	45.540
22	11	360 031 721	22.000	2.000	55.100
24	11	360 031 733	24.000	2.182	65.580

FM Approved Butt Fusion Fittings



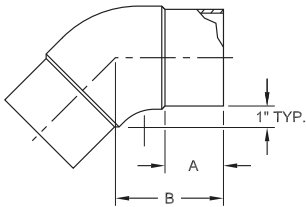
Design-Flow Red 90 Elbow Butt PE4710 SDR9 IPS - Molded Class 200

Size	SDR	Part Number	A (inch)	B (inch)	SP	Weight (lb)
4	9	360 000 281	3.00	5.75	10	3.594
6	9	360 000 295	4.38	9.00	2	9.370
8	9	360 000 308	6.00	12.00	2	20.393
10	9	360 000 255	6.00	13.25	1	40.168
12	9	360 000 266	7.50	15.88	1	64.000

Design-Flow Red 90 Elbow Butt PE4710 SDR11 IPS - Molded Class 150

Size	SDR	Part Number	A (inch)	B (inch)	SP	Weight (lb)
4	11	360 000 274	3.00	6.86	10	3.616
6	11	360 000 043	4.64	9.18	2	7.848
8	11	360 000 044	6.33	11.95	2	17.240
10	11	360 000 246	6.00	13.25	1	37.501
12	11	360 000 257	7.50	15.88	1	53.991

Design-Flow Red 45 Elbow Butt PE4710 SDR9 IPS - Molded Class 200

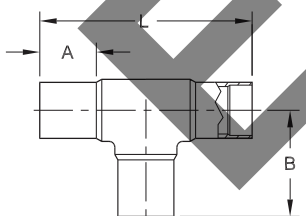


Size	SDR	Part Number	A (inch)	B (inch)	SP	Weight (lb)
4	9	360 000 203	3.00	5.00	10	3.153
6	9	360 000 216	4.38	7.00	2	7.055
8	9	360 000 227	6.00	11.00	2	20.194
10	9	360 000 175	6.00	13.25	1	47.311
12	9	360 000 186	7.50	15.75	1	68.498

Design-Flow Red 45 Elbow Butt PE4710 SDR11 IPS - Molded Class 150

Size	SDR	Part Number	A (inch)	B (inch)	SP	Weight (lb)
4	11	360 029 039	3.88	5.00	10	3.020
6	11	360 028 266	4.96	7.00	2	8.620
8	11	360 019 686	6.56	11.00	2	18.629
10	11	360 000 167	6.00	13.25	1	40.763
12	11	360 000 177	7.50	15.75	1	64.000

Design-Flow Red Tee Butt PE4710 SDR9 - Molded Class 200

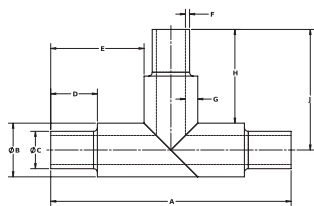


Size	SDR	Part Number	A (inch)	B (inch)	L (inch)	Weight (lb)
4	9	360 000 533	3.00	5.60	11.20	3.902
6	9	360 000 547	4.38	9.00	18.00	15.102
8	9	360 000 560	6.00	12.00	24.00	34.106
10	9	360 000 500	6.00	13.25	26.50	55.094
12	9	360 000 513	7.50	15.88	31.75	91.007

Design-Flow Red Tee Butt PE4710 SDR11 - Molded Class 150

Size	SDR	Part Number	A (inch)	B (inch)	L (inch)	Weight (lb)
4	11	360 000 525	2.90	6.87	13.73	4.542
6	11	360 000 538	4.89	9.00	18.00	10.560
8	11	360 000 551	6.00	12.00	24.00	29.895
10	11	360 000 053	6.00	13.25	26.50	50.001
12	11	360 000 504	7.50	15.88	31.75	77.007

Design-Flow Red Tee Butt PE4710 SDR7 IPS - Fabricated Class 267



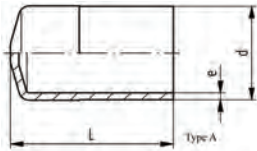
Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)	J (inch)	Weight (lb)
4	7	360 017 213	30.60	5.56	4.50	6.00	12.52	0.64	1.17	15.30	18.08	18.85
6	7	360 017 225	36.63	8.63	6.63	6.00	14.00	0.95	1.95	18.32	22.63	56.32
8	7	360 017 235	39.75	10.75	8.63	6.50	14.50	1.23	2.29	19.88	25.25	91.89
10	7	360 004 476	41.80	12.75	10.75	6.50	14.53	1.54	2.54	20.90	27.28	132.53
12	7	360 017 251	48.00	14.00	12.75	8.00	17.00	1.82	2.45	24.00	31.00	175.61
14	7	360 017 258	50.00	16.00	14.00	8.00	17.00	2.00	3.00	25.00	33.00	241.90
16	7	360 028 590	54.00	18.00	16.00	8.00	18.00	2.29	3.29	27.00	36.00	329.60
18	7	360 017 272	56.00	20.00	18.00	8.00	18.00	2.57	3.57	28.00	38.00	416.18
20	7	360 017 279	62.00	22.00	20.00	8.00	20.00	2.86	3.86	31.00	42.00	560.41
24	7	360 028 717	70.00	26.00	24.00	8.00	22.00	3.43	4.43	35.00	48.00	875.73

Design-Flow Red Tee Butt PE4710 SDR9 IPS - Fabricated Class 200

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)	J (inch)	Weight (lb)
8	9	360 017 234	39.75	10.75	8.63	6.50	14.50	1.23	2.29	19.88	25.25	81.31
10	9	360 017 244	41.80	12.75	10.75	6.50	14.53	1.54	2.54	20.90	27.28	115.46
12	9	360 017 250	48.00	14.00	12.75	8.00	17.00	1.82	2.45	24.00	31.00	148.23
14	9	360 017 257	50.00	16.00	14.00	8.00	17.00	2.00	3.00	25.00	33.00	207.66
16	9	360 017 265	54.00	18.00	16.00	8.00	18.00	2.29	3.29	27.00	36.00	281.52
18	9	360 017 271	56.00	20.00	18.00	8.00	18.00	2.57	3.57	28.00	38.00	353.67

Design-Flow Red Tee Butt PE4710 SDR11 IPS - Fabricated Class 150

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)	J (inch)	Weight (lb)
8	11	360 017 233	39.75	10.75	8.63	6.50	14.50	0.78	1.85	19.88	25.25	74.17
10	11	360 017 243	41.80	12.75	10.75	6.50	14.53	0.98	1.98	20.90	27.28	103.95
12	11	360 017 249	48.00	14.00	12.75	8.00	17.00	1.16	1.78	24.00	31.00	129.65
14	11	360 017 256	50.00	16.00	14.00	8.00	17.00	1.27	2.27	25.00	33.00	184.47
18	11	360 017 270	56.00	20.00	18.00	8.00	18.00	1.64	2.64	28.00	38.00	311.38
20	11	360 017 277	62.00	22.00	20.00	8.00	20.00	1.82	2.82	31.00	42.00	417.22
24	11	360 017 290	70.00	26.00	24.00	10.00	22.00	2.18	3.18	35.00	48.00	628.42

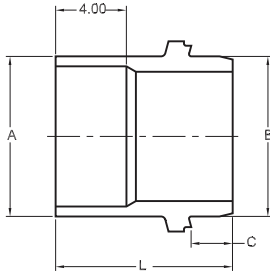


Design-Flow Red Cap Butt PE4710 SDR9 IPS - Molded, Class 200

Size	SDR	Part Number	L (inch)	d (inch)	e (inch)	SP	Weight (lb)
4	9	360 000 350	10.70	4.50	0.50	5	2.491
6	9	360 000 360	10.25	6.63	0.74	5	4.343
8	9	360 029 021	12.41	8.63	0.96	5	9.458

Design-Flow Red Cap Butt PE4710 SDR11 IPS - Molded, Class 150

Size	SDR	Part Number	L (inch)	d (inch)	e (inch)	SP	Weight (lb)
4	11	360 000 342	7.75	4.50	0.41	10	1.653
6	11	360 000 353	10.25	6.63	0.60	5	2.690
8	11	360 000 362	12.41	8.63	0.78	6	8.091
10	11	360 000 324	11.38	10.75	0.98	1	13.272
12	11	360 000 327	13.88	12.75	1.16	1	21.208



Design-Flow Red MJ Adapter Butt PE4710 SDR7 IPS - Class 267

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	L (inch)	Weight (lb)
6	7	360 032 213	6.63	6.90	2.34	11.31	
8	7	360 032 215	8.63	9.05	2.34	11.94	
10	7	360 032 214	10.75	11.10	2.34	13.56	21.130
12	7	360 032 059	12.75	13.20	2.00	13.00	
14	7	360 032 216	14.00	15.30	1.34	13.00	

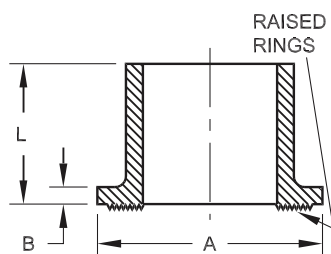
Design-Flow Red MJ Adapter Butt PE4710 SDR9 IPS - Class 200

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	L (inch)	Weight (lb)
4	9	360 001 941	4.50	4.80	2.34	10.25	3.020
6	9	360 001 961	6.63	6.90	2.34	11.31	7.606
8	9	360 017 752	8.63	9.05	2.34	11.94	12.170
10	9	360 001 795	10.75	11.10	2.34	13.56	16.006
12	9	360 001 815	12.75	13.20	2.00	13.00	28.991
16	9	360 017 794	16.00	17.40	1.34	13.00	54.101

Design-Flow Red MJ Adapter Butt PE4710 SDR11 IPS - Class 150

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	L (inch)	Weight (lb)
4	11	360 003 464	4.50	4.80	2.34	10.25	2.822
6	11	360 022 242	5.71	6.90	2.31	11.31	5.710
8	11	360 003 467	10.03	9.05	2.34	11.94	10.031
10	11		10.75	11.10	2.34	13.56	15.650
12	11		12.75	13.20	2.00	13.00	28.000

Design-Flow Red Flange Adapter Butt PE4710 SDR7 IPS - Class 267



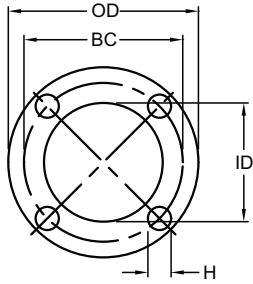
Size	SDR	Part Number	A (inch)	B (inch)	L (inch)	Weight (lb)
4	7	360 004 462	6.00	7.50	5.80	3.000
6	7	360 004 463	8.50	1.00	8.00	7.000
8	7	360 004 464	10.56	1.57	9.00	10.000
10	7	360 004 465	12.75	1.28	12.00	21.495
12	7	360 016 752	15.00	1.54	12.00	30.666
14	7	360 016 761	17.50	1.50	12.00	40.455
16	7	360 016 771	20.00	1.75	12.00	58.092
18	7	360 016 779	21.38	1.88	12.00	69.049
20	7	360 016 789	23.47	2.20	12.00	96.717
24	7	360 016 808	27.85	2.82	12.00	160.673

Design-Flow Red Flange Adapter Butt PE4710 SDR9 IPS - Class 200

Size	SDR	Part Number	A (inch)	B (inch)	L (inch)	Weight (lb)
2	9	360 016 699	6.00	0.39	3.94	1.000
3	9	360 016 706	6.00	0.63	5.00	2.000
4	9	360 001 561	6.00	0.54	6.00	3.000
6	9	360 001 583	8.50	0.78	8.00	7.000
8	9	360 001 600	10.63	1.00	11.00	10.185
10	9	360 001 431	12.75	1.28	12.00	19.000
12	9	360 001 449	15.00	1.54	12.00	25.000
14	9	360 001 463	17.50	1.50	12.00	49.000
16	9	360 001 481	20.00	1.75	12.00	74.000
18	9	360 001 493	21.38	1.88	12.00	79.000
20	9	360 001 516	23.47	2.77	12.00	81.000
24	9	360 016 807	27.85	2.82	12.00	97.000

Design-Flow Red Flange Adaptor Butt PE4710 SDR11 IPS - Class 150

Size	SDR	Part Number	A (inch)	B (inch)	L (inch)	Weight (lb)
2	11	360 016 698	6.00	0.39	3.94	1.000
3	11	360 016 705	6.00	0.63	5.00	2.000
4	11	360 001 551	6.00	0.54	6.00	3.000
6	11	360 001 570	8.50	0.78	8.00	7.000
8	11	360 001 588	10.63	1.00	11.00	10.000
10	11		12.75	1.28	12.00	18.000
12	11	360 001 438	15.00	1.54	12.00	24.000
14	11	360 001 453	17.50	1.50	12.00	40.000
16	11	360 001 470	20.00	1.75	12.00	60.000
18	11	360 001 483	21.38	1.88	12.00	64.000
20	11	360 001 507	23.47	2.77	12.00	66.000
24	11	360 016 806	27.85	2.82	12.00	79.000



Design-Flow Red Bolt Ring IPS - Ductile Iron, Class 267

Size	Part Number	O.D.	I.D.	# Bolt Holes	Weight (lb)
2	360 014 825	6.00	2.50	4	2.650
3	360 014 829	7.50	3.63	4	4.191
4	360 014 833	9.00	4.63	8	5.291
6	360 014 837	11.00	6.75	8	7.275
8	360 014 840	13.50	8.75	8	11.905
10	360 014 843	16.00	10.94	12	15.320
12	360 014 847	19.00	13.00	12	25.020
14	360 014 852	21.00	14.38	12	34.280
16	360 014 857	23.50	16.19	16	47.181
18	360 014 862	25.00	18.38	16	52.031
20	360 014 870	27.50	20.38	20	69.441
22	360 014 874	29.50	22.38	20	79.812
24	360 014 879	32.00	24.38	20	102.513

Design-Flow Red Bolt Ring IPS - Ductile Iron, Class 200

Size	Part Number	O.D.	I.D.	# Bolt Holes	Weight (lb)
26	360 014 846	34.25	26.38	24	109.000
28	360 014 851	36.50	28.38	28	130.000

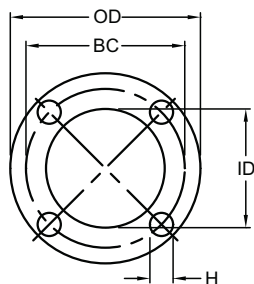
Design-Flow Red Bolt Ring IPS - Ductile Iron, Class 150

Size	Part Number	O.D.	I.D.	# Bolt Holes	Weight (lb)
12	360 014 846	19.00	13.00	12	24.690
14	360 014 851	21.00	14.38	12	28.440
16	360 014 856	23.50	16.19	16	38.801
18	360 014 861	25.00	18.38	16	41.672
20	360 014 869	27.50	20.38	20	56.441
24	360 014 878	32.00	24.38	20	79.812
30	360 014 890	38.75	30.38	28	138.232
32	360 014 893	41.75	32.38	28	164.463
34	360 014 895	43.75	34.38	32	190.704
36	360 014 898	46.00	36.38	32	213.844

Design-Flow Red Bolt Ring IPS - Epoxy Coated DI, Class 267

Size	Part Number	O.D.	I.D.	# Bolt Holes	Weight (lb)
2	360 014 908	6.00	2.50	4	2.650
3	360 014 912	7.50	3.63	4	4.191
4	360 014 916	9.00	4.63	8	5.291
6	360 014 921	11.00	6.75	8	7.280
8	360 014 925	13.50	8.75	8	11.901
10	360 014 929	16.00	10.94	12	15.320
12	360 014 934	19.00	13.00	12	25.020
14	360 014 939	21.00	14.38	12	34.280
16	360 014 944	23.50	16.19	16	47.181
18	360 014 949	25.00	18.38	16	52.031
20	360 014 954	27.50	20.38	20	69.441
22	360 014 958	29.50	22.38	20	79.812
24	360 014 963	32.00	24.38	20	102.513

Design-Flow Red Bolt Ring IPS - Epoxy Coated DI, Class 200



Size	Part Number	O.D.	I.D.	# Bolt Holes	Weight (lb)
26	360 014 967	34.25	34.25	24	109.000
28	360 014 970	36.50	36.50	28	129.632

Design-Flow Red Bolt Ring IPS - Epoxy Coated DI, Class 150

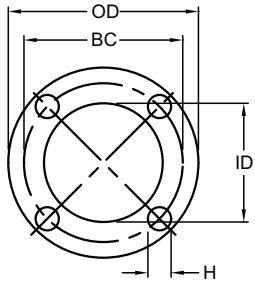
Size	Part Number	O.D.	I.D.	# Bolt Holes	Weight (lb)
12	360 014 933	19.00	13.00	12	24.690
14	360 014 938	21.00	14.38	12	28.440
16	360 014 943	23.50	16.19	16	38.801
18	360 014 948	25.00	18.38	16	41.672
20	360 014 953	27.50	20.38	20	56.441
24	360 014 962	32.00	24.38	20	79.812
30	360 014 974	38.75	30.38	28	138.232
32	360 014 977	41.75	32.38	28	164.465
34	360 014 979	43.75	34.38	32	190.704
36	360 014 982	46.00	36.38	32	213.844

Design-Flow Red Bolt Ring IPS - Galvanized Steel, Class 267

Size	Part Number	O.D.	I.D.	# Bolt Holes	Weight (lb)
2	360 014 991	6.00	2.50	4	2.650
3	360 014 995	7.50	3.63	4	4.191
4	360 014 999	9.00	4.63	8	5.291
6	360 015 004	11.00	6.75	8	7.280
8	360 015 008	13.50	8.75	8	11.901
10	360 015 012	16.00	10.94	12	15.320
12	360 015 017	19.00	13.00	12	25.020
14	360 015 022	21.00	14.38	12	34.280
16	360 015 027	23.50	16.19	16	47.181
18	360 015 032	25.00	18.38	16	52.031
20	360 015 037	27.50	20.38	20	69.441
22	360 015 041	29.50	22.38	20	79.812
24	360 015 046	32.00	24.38	20	102.513

Design-Flow Red Bolt Ring IPS - Galvanized Steel, Class 200

Size	Part Number	O.D.	I.D.	# Bolt Holes	Weight (lb)
26	360 015 050	34.25	26.38	24	108.02
28	360 015 053	36.50	28.38	28	129.63



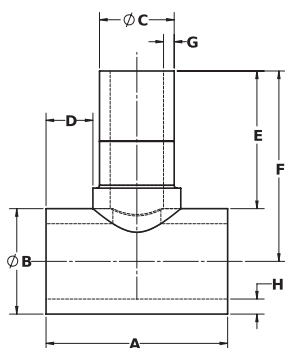
Design-Flow Red Bolt Ring IPS - Galvanized Steel, Class 150

Size	Part Number	O.D.	I.D.	# Bolt Holes	Weight (lb)
12	360 015 016	19.00	13.00	12	24.690
14	360 015 021	21.00	14.38	12	28.440
16	360 015 026	23.50	16.19	16	38.801
18	360 015 031	25.00	18.38	16	41.672
20	360 015 036	27.50	20.38	20	56.441
24	360 015 045	32.00	24.38	20	79.812
30	360 015 057	38.75	30.38	28	138.232
32	360 015 060	41.75	32.38	28	164.463
34	360 015 062	43.75	34.38	32	190.704
36	360 015 065	46.00	36.38	32	213.844

Design-Flow Red Bolt Ring IPS - Stainless Steel, Class 267

Size	Part Number	O.D.	I.D.	# Bolt Holes	Weight (lb)
2	360 015 074	6.00	2.50	4	2.291
3	360 015 078	7.50	3.63	4	4.081
4	360 015 082	9.00	4.63	8	5.291
6	360 015 087	11.00	6.75	8	7.628
8	360 015 091	13.50	8.75	8	13.095
10	360 015 095	16.00	10.94	12	15.939
12	360 015 099	19.00	13.00	12	37.479

Design-Flow Red Reducing Tee Butt PE4710 SDR7 IPS - Fabricated, Class 267



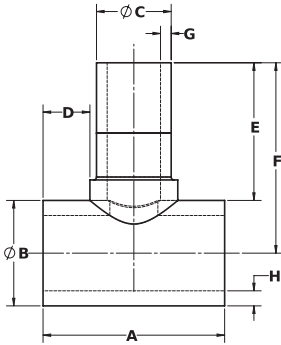
Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)
8×6	7	360 004 491	21.10	8.63	6.63	6.90	8.31	14.31	0.95	1.23
10×4	7	360 004 473	19.00	10.75	4.50	7.10	9.13	15.13	0.64	1.54
10×6	7	360 004 474	21.10	10.75	6.63	6.90	9.38	15.40	0.95	1.54
10×8	7	360 004 475	24.00	10.75	8.63	7.30	12.13	24.13	1.23	1.54
12×6	7	360 018 951	24.10	12.75	6.63	8.40	10.38	16.40	0.95	1.82
12×8	7	360 018 958	28.00	12.75	8.63	9.30	13.13	25.13	1.23	1.82
12×10	7	360 018 964	30.10	12.75	10.75	9.30	13.38	25.40	1.54	1.82
14×6	7	360 018 984	24.10	14.00	6.63	8.40	11.00	17.00	0.95	2.00
14×8	7	360 018 989	28.00	14.00	8.63	9.30	13.75	25.80	1.23	2.00
16×6	7	360 019 022	29.10	16.00	6.63	10.90	12.00	18.00	0.95	2.29
16×10	7	360 019 033	34.10	16.00	10.75	11.30	15.00	27.00	1.54	2.29
16×12	7	360 019 039	36.00	16.00	12.75	11.10	17.00	29.00	1.82	2.29
18×6	7	360 019 061	29.10	18.00	6.63	10.90	13.00	19.00	0.95	2.57
18×8	7	360 019 066	32.00	18.00	8.63	11.30	15.75	27.80	1.23	2.57
18×10	7	360 019 071	34.10	18.00	10.75	11.30	16.00	28.00	1.54	2.57
18×12	7	360 019 077	36.00	18.00	12.75	11.10	18.00	30.00	1.82	2.57
20×6	7	360 019 104	33.10	20.00	6.63	12.90	14.00	20.00	0.95	2.86
20×10	7	360 019 116	38.10	20.00	10.75	13.30	17.00	29.00	1.54	2.86
20×12	7	360 019 122	40.00	20.00	12.75	13.10	19.00	31.00	1.82	2.86
24×6	7	360 019 192	33.10	24.00	6.63	12.90	16.00	22.00	0.95	3.43
24×8	7	360 019 198	36.00	24.00	8.63	13.30	18.75	30.80	1.23	3.43
24×10	7	360 019 205	38.10	24.00	10.75	13.30	19.00	31.00	1.54	3.43
24×12	7	360 019 212	40.00	24.00	12.75	13.10	21.00	33.00	1.82	3.43

Design-Flow Red Reducing Tee Butt PE4710 SDR9 IPS - Fabricated, Class 200

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)
4×2	9	360 018 856	18.00	4.50	2.38	7.70	6.50	12.50	0.26	0.50
6×2	9	360 018 867	18.00	6.63	2.38	7.70	7.56	13.56	0.26	0.74
6×4	9	360 018 880	19.00	6.63	4.50	7.10	7.06	13.10	0.50	0.74
8×3	9	360 018 891	18.10	8.63	3.50	7.10	8.06	14.10	0.39	0.96
8×6	9	360 018 902	21.10	8.63	6.63	6.90	8.31	14.31	0.74	0.96
10×4	9	360 018 918	19.00	10.75	4.50	7.10	9.13	15.13	0.50	1.19
10×8	9	360 018 928	24.00	10.75	8.63	7.30	12.13	24.13	0.96	1.19
12×4	9	360 018 944	23.00	12.75	4.50	9.10	10.13	16.13	0.50	1.42
12×6	9	360 018 950	24.10	12.75	6.63	8.40	10.38	16.40	0.74	1.42
12×8	9	360 018 957	28.00	12.75	8.63	9.30	13.13	25.13	0.96	1.42
12×10	9	360 018 963	30.10	12.75	10.75	9.30	13.38	25.40	1.19	1.42
14×2	9	360 018 968	20.00	14.00	2.38	8.70	11.25	17.25	0.26	1.56
14×6	9	360 018 983	24.10	14.00	6.63	8.40	11.00	17.00	0.74	1.56
14×8	9	360 018 988	28.00	14.00	8.63	9.30	13.75	25.80	0.96	1.56
14×10	9	360 018 994	30.10	14.00	10.75	9.30	14.00	26.00	1.19	1.56
16×2	9	360 019 005	24.00	16.00	2.38	10.70	12.25	18.25	0.26	1.78
16×4	9	360 019 016	27.00	16.00	4.50	11.10	11.75	17.80	0.50	1.78
16×6	9	360 019 021	29.10	16.00	6.63	10.90	12.00	18.00	0.74	1.78
16×8	9	360 019 026	32.00	16.00	8.63	11.30	14.75	26.80	0.96	1.78
16×10	9	360 019 032	34.10	16.00	10.75	11.30	15.00	27.00	1.19	1.78
16×12	9	360 019 038	36.00	16.00	12.75	11.10	17.00	29.00	1.42	1.78
20×8	9	360 019 109	36.00	20.00	8.63	13.30	16.75	28.80	0.96	2.22

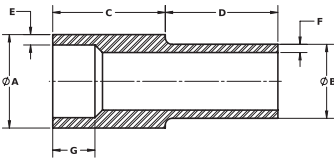


Design-Flow Red Reducing Tee Butt PE4710 SDR11 IPS - Fabricated, Class 150



Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	H (inch)
8×3	11	360 018 890	18.00	8.63	3.50	6.75	8.06	14.60	0.32	0.78
8×6	11	360 018 901	21.03	8.63	6.63	6.20	8.31	14.31	0.60	0.78
10×4	11	360 018 917	19.03	10.75	4.50	6.20	9.13	15.40	0.41	0.98
10×6	11	360 018 921	21.03	10.75	6.63	6.20	9.38	15.40	0.60	0.98
10×8	11	360 018 927	24.00	10.75	8.63	6.63	12.13	24.40	0.78	0.98
12×6	11	360 018 949	24.03	12.75	6.63	7.70	10.38	16.40	0.60	1.16
12×8	11	360 018 956	28.00	12.75	8.63	8.63	13.13	25.40	0.78	1.16
16×6	11	360 019 020	29.03	16.00	6.63	10.20	12.00	18.00	0.60	1.45
16×8	11	360 019 025	32.00	16.00	8.63	10.63	14.75	27.80	0.78	1.45
18×8	11	360 019 064	32.00	18.00	8.63	10.63	15.75	28.60	0.78	1.64
18×10	11	360 019 069	34.00	18.00	10.75	10.63	16.00	29.00	0.98	1.64
18×12	11	360 019 075	36.00	18.00	12.75	10.50	18.00	31.00	1.16	1.64
20×8	11	360 019 108	36.00	20.00	8.63	12.63	16.75	29.60	0.78	1.82
24×6	11	360 019 190	33.03	24.00	6.63	12.20	16.00	22.00	0.60	2.18
24×8	11	360 019 196	36.00	24.00	8.63	12.63	18.75	31.60	0.78	2.18
24×12	11	360 019 210	40.00	24.00	12.75	12.50	21.00	34.00	1.16	2.18

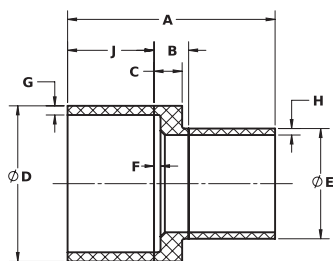
Design-Flow Red Reducer Butt PE4710 SDR9 IPS - Fabricated, Class 200



Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	Weight (lb)
6×4	9	360 000 457	6.63	4.50	4.00	4.00	0.74	0.50	1.50	4.46
8×6	9	360 000 472	8.63	6.63	4.00	4.00	0.96	0.74	1.50	7.57
10×8	9	360 000 405	10.75	8.63	6.00	6.00	1.19	0.96	1.50	19.05
12×10	9	360 000 412	12.75	10.75	6.00	6.00	1.42	1.19	1.50	26.66
14×12	9	360 018 424	14.00	12.75	7.00	7.00	1.56	1.42	1.50	37.65
16×14	9	360 018 440	16.00	14.00	7.00	7.00	1.78	1.56	1.50	49.72
18×16	9	360 018 452	18.00	16.00	7.00	7.00	2.00	1.78	1.50	62.81
20×18	9	360 018 464	20.00	18.00	7.00	7.00	2.22	2.00	1.50	77.43
22×20	9	360 018 475	22.00	20.00	7.00	7.00	2.44	2.22	1.50	93.58
24×22	9	360 018 493	24.00	22.00	9.00	9.00	2.67	2.44	1.50	146.11

Design-Flow Red Reducer Butt PE4710 SDR11 IPS - Fabricated, Class 150

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	F (inch)	G (inch)	Weight (lb)
6×4	11	360 000 066	6.63	4.50	4.00	4.00	0.60	0.41	1.50	3.93
8×6	11	360 000 068	8.63	6.63	4.00	4.00	0.78	0.60	1.50	6.55
10×8	11	360 018 400	10.75	8.63	6.00	6.00	0.98	0.78	1.50	16.44
12×10	11	360 003 455	12.75	10.75	6.00	6.00	1.16	0.98	1.50	22.78
14×12	11	360 018 423	14.00	12.75	7.00	7.00	1.27	1.16	1.50	31.60
16×14	11	360 018 439	16.00	14.00	7.00	7.00	1.46	1.27	1.50	42.16
18×16	11	360 018 451	18.00	16.00	7.00	7.00	1.64	1.46	1.50	53.04
20×18	11	360 018 463	20.00	18.00	7.00	7.00	1.82	1.64	1.50	65.18



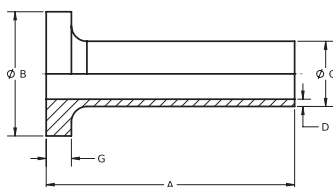
Design-Flow Red MJ Adaptor Butt PE4710 SDR9 IPS - Class 200

Size	SDR	Part Number	B (inch)	F (inch)	C (inch)	A (inch)	G (inch)	H (inch)	E (inch)	D (inch)	Weight (lb)
4	9	360 001 941	6.63	4.80	4.50	8.00	4.25	3.75	0.47	0.50	3.10
6	9	360 001 961	8.63	6.90	6.63	9.50	4.25	5.25	0.67	0.74	6.29
8	9	360 017 752	10.75	9.05	8.63	11.50	4.88	6.62	0.89	0.96	12.22
10	9	360 001 795	12.75	11.10	10.75	13.00	4.88	8.12	1.09	1.19	19.58
12	9	360 001 815	15.25	13.20	12.75	13.50	5.13	8.37	1.29	1.42	28.60
16	9	360 017 794	20.00	17.40	16.00	14.50	6.13	8.37	1.60	1.78	52.18

Design-Flow Red MJ Adaptor Butt PE4710 SDR11 IPS - Class 150

Size	SDR	Part Number	B (inch)	F (inch)	C (inch)	A (inch)	G (inch)	H (inch)	E (inch)	D (inch)	Weight (lb)
4	11	360 003 464	6.63	4.80	4.50	8.00	4.25	3.75	0.47	0.41	2.97
6	11	360 022 242	8.63	6.90	6.63	9.50	4.25	5.25	0.67	0.60	5.95
8	11	360 003 467	10.75	9.05	8.63	11.50	4.88	6.62	0.89	0.78	11.49
10	11		12.75	11.10	10.75	13.00	4.88	8.12	1.09	0.98	18.26
12	11		15.25	13.20	12.75	13.50	5.13	8.37	1.29	1.16	26.66

Design-Flow Red Flange Adaptor Butt PE4710 SDR7 IPS - Class 267



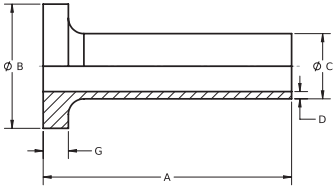
Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	Weight (lb)
10	11	360 000 066	11.00	12.75	10.75	1.54	2.00	19.27
12	11	360 000 068	11.00	15.00	12.75	1.82	2.28	27.38
14	11	360 018 400	11.00	17.50	14.00	2.00	2.50	35.81
16	11	360 003 455	12.00	20.00	16.00	2.29	2.88	51.60
18	11	360 018 423	12.00	21.12	18.00	2.57	3.25	61.87
20	11	360 018 439	13.00	23.50	20.00	2.86	3.63	83.33
24	11	360 018 451	14.00	28.00	24.00	3.43	4.29	130.20

Design-Flow Red Flange Adaptor Butt PE4710 SDR9 IPS - Class 200

Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	Weight (lb)
2	9	360 016 699	5.50	3.90	2.38	0.26	0.39	0.43
3	9	360 016 706	6.50	5.00	3.50	0.39	0.50	1.02
4	9	360 001 561	6.50	6.60	4.50	0.50	0.63	1.79
6	9	360 001 582	8.00	8.50	6.63	0.74	1.00	4.49
8	9	360 001 600	9.00	10.63	8.63	0.96	1.25	8.40
10	9	360 001 432	10.00	12.75	10.75	1.19	1.50	14.17
12	9	360 001 450	11.00	15.00	12.75	1.42	1.88	22.15
14	9	360 001 463	11.00	17.50	14.00	1.56	2.00	28.84
16	9	360 001 481	12.00	20.00	16.00	1.78	2.25	41.35
18	9	360 001 493	12.00	21.12	18.00	2.00	2.50	49.51
20	9	360 001 516	12.00	23.50	20.00	2.22	2.88	62.76
24	9	360 016 807	14.00	28.00	24.00	2.67	3.36	104.47



Design-Flow Red Flange Adaptor Butt PE4710 SDR11 IPS - Class 150



Size	SDR	Part Number	A (inch)	B (inch)	C (inch)	D (inch)	E (inch)	Weight (lb)
2	11	360 016 698	5.50	3.90	2.38	0.22	0.39	0.38
3	11	360 016 705	6.50	5.00	3.50	0.32	0.41	0.79
4	11	360 001 551	6.50	6.60	4.50	0.41	0.50	1.39
6	11	360 001 570	8.00	8.50	6.63	0.60	0.78	3.72
8	11	360 001 588	9.00	10.63	8.63	0.78	1.00	6.99
10	11		10.00	12.75	10.75	0.98	1.28	11.89
12	11	360 001 438	11.00	15.00	12.75	1.16	1.54	18.48
14	11	360 001 453	11.00	17.50	14.00	1.27	1.63	23.99
16	11	360 001 470	12.00	20.00	16.00	1.46	1.88	34.58
18	11	360 001 483	12.00	21.12	18.00	1.64	2.00	41.12
20	11	360 001 507	12.00	23.50	20.00	1.82	2.27	51.97
24	11	360 016 806	14.00	28.00	24.00	2.18	2.75	87.07

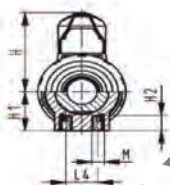
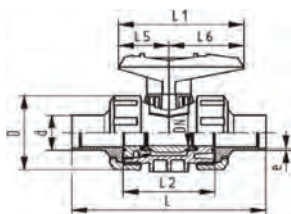
Valves

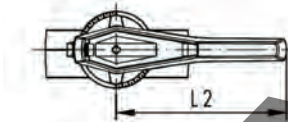
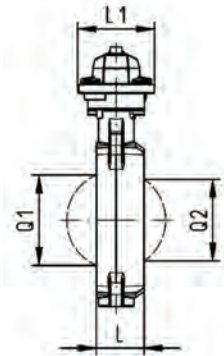
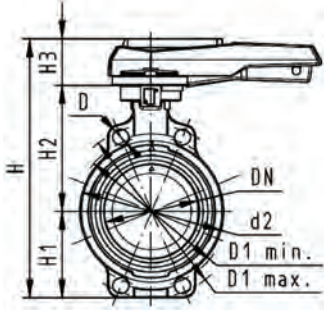
Type 546 Ball Valve PROGEF Standard

With mounting inserts

With butt fusion spigots PE100 SDR11

Size (inch)	d (inch)	e (inch)	PN (PSI)	Part Number	SP	Weight (lbs)	D (inch)	H (inch)	H1 (inch)	H2 (inch)	L (inch)	L1 (inch)	L2 (inch)	L4 (inch)	L5 (inch)	M (mm)
¾	1.050	0.095	150	153 546 143	1	0.666	2.283	2.638	1.181	0.472	5.630	3.819	2.559	0.984	1.535	M6
1	1.315	0.119	150	153 546 144	1	0.950	2.677	2.874	1.417	0.472	5.906	3.819	2.795	0.984	1.535	M6
1¼	1.660	0.165	150	153 546 145	1	1.676	3.307	3.543	1.732	0.591	6.732	5.039	3.346	1.772	2.126	M8
1½	1.879	0.173	150	153 546 146	1	2.229	3.819	3.819	2.008	0.591	7.520	5.039	3.504	1.772	2.126	M8
2	2.375	0.216	150	153 546 147	1	4.092	4.880	4.567	2.520	0.591	8.661	5.984	3.976	1.772	2.598	M8
3	3.500	0.318	150	153 546 149	1	20.944	7.870	6.340	4.130	0.591	16.570	10.620	5.550	2.750	2.519	M8
4	4.500	0.403	150	153 546 150	1	33.069	9.370	7.000	4.840	0.866	19.050	12.600	6.460	4.720	2.519	M12

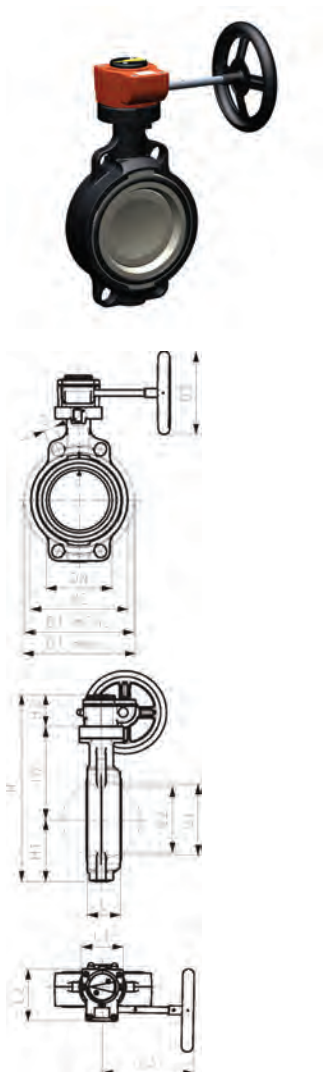




Type 567 Butterfly Valve PROGEF Standard PP Lever Operated

d (mm)	Size (inch)	EPDM Part No.	FPM Part No.	weight (kg)
63	2	167 567 002	167 567 022	1.627
75	2 ½	167 567 003	167 567 023	1.061
90	3	167 567 004	167 567 024	1.404
110	4	167 567 005	167 567 025	1.998
140	5	167 567 006	167 567 026	2.429
160	6	167 567 007	167 567 027	3.246
225	8	167 567 008	167 567 028	5.609
280	10	167 567 009	167 567 029	11.841
315	12	167 567 010	167 567 030	13.245

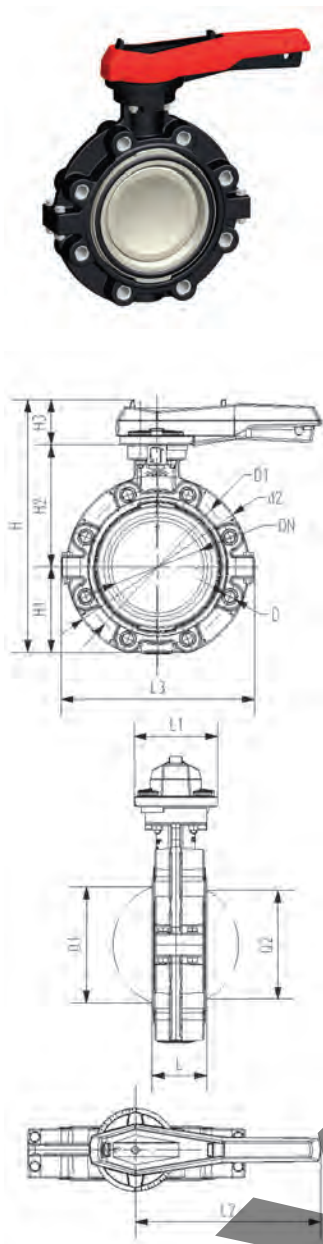
d (mm)	D (mm)	D1 min. (mm)	D1 max. (mm)	d2 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	Q1 (mm)	Q2 (mm)
63	19	120	125	104	264	77	134	54	45	106	205	40	
75	19	140	145	115	277	83	140	54	46	106	205	54	35
90	19	150	160	131	289	89	146	54	49	106	205	67	50
110	19	175	191	161	325	104	167	55	56	106	255	88	74
140	23	210	216	187	352	117	181	55	64	106	255	113	97
160	24	241	241	215	373	130	189	55	72	106	255	139	123
225	23	290	295	267	435	158	210	67	73	140	408	178	169
280	25	353	362	329	554	205	264	85	113	149	408	210	207
315	25	400	432	379	598	228	285	85	113	149	408	256	253



Type 567 Butterfly Valve PROGEF Standard PP Gear Operated

Size (inch)	EPDM Part No.	FPM Part No.	weight (lb)
2	167 567 042	167 567 062	6.629
2 ½	167 567 043	167 567 063	6.832
3	167 567 044	167 567 064	7.119
4	167 567 045	167 567 065	8.247
5	167 567 046	167 567 066	9.354
6	167 567 047	167 567 067	11.107
8	167 567 048	167 567 068	14.416
10	167 567 049	167 567 069	28.823
12	167 567 050	167 567 070	35.419
14	167 567 051	167 567 071	88.185
16	167 567 052	167 567 072	110.231
18	167 567 053	167 567 073	154.324
20	167 567 054	167 567 074	198.416
24	167 567 055	167 567 075	275.578

D (inch)	D1 min. (inch)	D1 max. (inch)	d2 (inch)	D3 (inch)	H (inch)	H1 (inch)	H2 (inch)	H3 (inch)	L (inch)	L1 (inch)	L2 (inch)	L3 (inch)	Q1 (inch)	Q2 (inch)
1	5	5	4	6	11	3	5	2	2	3	4	7	2	
1	6	6	5	6	11	3	6	2	2	3	4	7	2	1
1	6	6	5	6	12	4	6	2	2	3	4	7	3	2
1	7	8	6	6	13	4	7	2	2	3	4	7	3	3
1	8	9	7	6	14	5	7	2	3	3	4	7	4	4
1	9	9	8	6	15	5	7	2	3	3	4	7	5	5
1	11	12	11	6	17	6	8	2	3	3	4	7	7	7
1	14	14	13	8	22	8	10	3	4	4	5	8	8	8
1	16	17	15	8	24	9	11	3	4	4	5	8	10	10
1	18	19	21	8		11	16	3	5	7	7	9	13	12
1	20	21	23	8		12	17	3	7	7	8	9	14	14
1	22	23	25	10		13	20	3	7	9	8	9	15	15
1	24	25	28	14		14	22	4	7	9	9	10	17	17
1	29	30	32	14		17	24	4	8	9	10	10	21	21



Type 568 Butterfly Valve PROGEF Standard PP

Lever operated

Model:

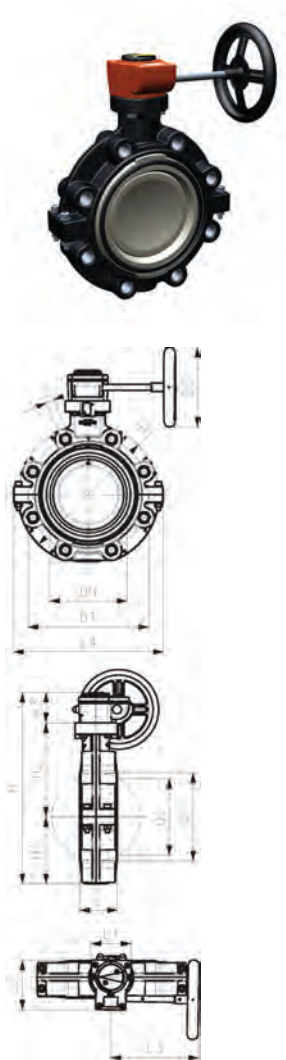
- Housing material: PP-GF30 with 316SS lug inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Optional accessory: Integrated position feedback with limit switches (sold separately)

Size (inch)	PN (psi)	EPDM Part No.	SP weight (lb)	FPM Part No.	SP weight (lb)
2	145	167 578 102	1 3.968	167 578 122	1 3.968
2 ½	145	167 578 103	1 4.178	167 578 123	1 4.178
3	145	167 578 104	1 4.963	167 578 124	1 4.963
4	145	167 578 105	1 6.936	167 578 125	1 6.936
5	145	167 578 106	1 10.274	167 578 126	1 10.274
6	145	167 578 107	1 14.176	167 578 127	1 14.176
8	145	167 578 108	1 19.015	167 578 128	1 19.015
10	116	167 578 109	1 43.052	167 578 129	1 43.052
12	116	167 578 110	1 57.554	167 578 130	1 57.554

Size (inch)	d2 (inch)	D (inch)	D1 (inch)	H (inch)	H1 (inch)	H2 (inch)	H3 (inch)	L (inch)	L1 (inch)	L2 (inch)	L3 (inch)	Q1 (inch)	Q2 (inch)
2	6	UNC 5/8	4.7	10	3	5	2	2	4	8	6	2	
2 ½	7	UNC 5/8	5.5	11	3	6	2	2	4	8	7	2	1
3	8	UNC 5/8	6.0	11	4	6	2	2	4	8	8	3	2
4	9	UNC 5/8	7.5	13	4	7	2	2	4	10	9	3	3
5	10	UNC 3/4	8.5	14	5	7	2	3	4	10	11	4	4
6	11	UNC 3/4	9.5	15	5	7	2	3	4	10	12	5	5
8	13	UNC 3/4	11.7	17	6	8	3	3	6	16	14	7	7
10	16	UNC 7/8	14.3	21	8	10	3	4	6	16	17	8	8
12	19	UNC 7/8	17.0	23	9	11	3	4	6	16	20	10	10



Type 568 Butterfly Valve PROGEF Standard PP Gear Operated

Model:

- Housing material: PP-GF30 with 316SS lug inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

- Optional accessory: Integrated position feedback with limit switches (sold separately)

Size (inch)	PN (psi)	EPDM Part No.	SP weight (lb)	FPM Part No.	SP weight (lb)
2	145	167 578 142	1 7.599	167 578 162	1 7.599
2 ½	145	167 578 143	1 7.904	167 578 163	1 7.904
3	145	167 578 144	1 8.662	167 578 164	1 8.662
4	145	167 578 145	1 10.657	167 578 165	1 10.657
5	145	167 578 146	1 13.995	167 578 166	1 13.995
6	145	167 578 147	1 17.877	167 578 167	1 17.877
8	145	167 578 148	1 20.620	167 578 168	1 20.620
10	116	167 578 149	1 46.760	167 578 169	1 46.760
12	116	167 578 150	1 61.169	167 578 170	1 61.169

Size (inch)	d2 (inch)	D (inch)	D1 (inch)	D3 (inch)	H (inch)	H1 (inch)	H2 (inch)	H3 (inch)	L (inch)	L1 (inch)	L2 (inch)	L3 (inch)	L4 (inch)	Q1 (inch)	Q2 (inch)
2	6	UNC 5/8	4.7	6	11	3	5	2	2	3	4	7	6	2	
2 ½	3	UNC 5/8	5.5	6	11	3	6	2	2	3	4	7	7	2	1
3	8	UNC 5/8	6.0	6	12	4	6	2	2	3	4	7	8	3	2
4	9	UNC 5/8	7.5	6	13	4	7	2	2	3	4	7	9	3	3
5	10	UNC 3/4	8.5	6	14	5	7	2	3	3	4	7	11	4	4
6	11	UNC 3/4	9.5	6	15	5	7	2	3	3	4	7	12	5	5
8	13	UNC 3/4	11.7	6	17	6	8	2	3	3	4	7	14	7	7
10	16	UNC 7/8	14.3	8	22	8	10	3	4	4	5	8	17	8	8
12	19	UNC 7/8	17.0	8	24	9	11	3	4	4	5	8	20	10	10

EXAMPLE

EXAMPLE

General Terms and Conditions of Sale

GF Piping Systems USA Terms and Conditions (Rev. 2/2017) supersede all previous Terms and Conditions for Georg Fischer LLC and Georg Fischer Harvel LLC.

It is the responsibility of the Distributor, Dealer, or Agent to provide a current copy of these Terms and Conditions to the Consumers of Georg Fischer Piping products.

Acceptance of Terms and Conditions

Acceptance by Customer of GF Piping Systems USA, (hereinafter "Seller") offer of Products for sale is hereby expressly conditioned upon Customer's acceptance of these General Terms and Conditions of Sale and these General Terms and Conditions of Sale will be deemed accepted, as written, despite any language in Customer's purchase order and/or other documentation which is either conflicting or supplemental, unless promptly after this offer, Customer specifically advises Seller of each term and condition not so accepted and Seller accepts Customer's conflicting and/or supplemental term(s) in writing.

Order Acceptance

Seller reserves the right to accept or reject any order. Possession of a price list by Customer does not constitute an offer to sell.

Credit Approval and Minimum Order Charge

Customer credit approval is required prior to any shipment.

The minimum order is \$100 net.

List Price, Discount or Freight Charges

List prices, discount, and freight terms are subject to change without notice. All prices are F.O.B. Seller's factory or authorized warehouse at Seller's discretion.

Payment Terms

Net 30, from date the invoice is issued unless otherwise stated in a specific quotation. No unauthorized deductions allowed, such as deductions for pending Return Material Transactions that are subject to review. Seller reserves the right to apply a finance charge to the balance of any past-due invoice (over 30 days from date of invoice) at a rate of 1.5% per month, 18% per annum. Payment terms on fusion machine rentals net 30; see rental agreement for more details.

Taxes

Seller charges Customer for all sales, excise and other taxes and governmental charges Seller is required to collect from Customer. Customers claiming exemption must furnish documentation required by law which is satisfactory to Seller to permit Seller to refrain from collecting such charges.

WARRANTY AND LIMITATIONS

Seller's Products are carefully inspected for manufacturing defects; however, it is not always possible to detect hidden defects.

Seller warrants that its products shall conform to the description of such products as provided to Customer by Seller through Seller's catalog, analytical data or other literature. **THIS WARRANTY IS EXCLUSIVE, AND SELLER MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR COURSE OF DEALING OR USAGE OF TRADE – WHICH ARE HEREBY DISCLAIMED.** Seller's warranties made in connection with this sale shall not be effective if Seller has determined, in its sole discretion, that Customer has misused the products in any manner, has failed to use the products in accordance with industry standards and practices, or has failed to use the products in accordance with instructions, if any, furnished by Seller. **Seller does not warrant any Products obtained through an unauthorized Distributor, Dealer, or Agent.**

LIMITATIONS OF REMEDY

Seller's sole and exclusive liability and Customer's exclusive remedy with respect to products proved to Seller's satisfaction to be defective or nonconforming shall be repair or replacement of such products without charge or refund of the purchase price, in Seller's sole discretion, upon the return of such products in accordance with Seller's instructions. **SELLER SHALL NOT IN ANY EVENT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND RESULTING FROM ANY USE OR FAILURE OF THE PRODUCTS, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE INCLUDING, WITHOUT LIMITATION, LIABILITY FOR LOSS OF USE, LOSS OF WORK IN PROGRESS, DOWN TIME, LOSS OF REVENUE OR PROFITS, FAILURE TO REALIZE SAVINGS, LOSS OF PRODUCTS OF CUSTOMER OR OTHER USE OR ANY LIABILITY OF CUSTOMER TO A THIRD PARTY ON ACCOUNT OF SUCH LOSS, OR FOR ANY LABOR OR ANY OTHER EXPENSE, DAMAGE OR LOSS OCCASIONED BY SUCH PRODUCT INCLUDING PERSONAL INJURY OR PROPERTY DAMAGE.** Any and all claims of Customer against Seller must be brought within one (1) year of Seller's tender of delivery, regardless of their nature.

Order Changes or Cancellations

Cancellation or modifications of orders may be possible only with prior written consent from Seller. Since all orders are individually entered for processing immediately upon receipt, Seller reserves the right to charge back to the Customer costs incurred from either order cancellation or order modification. Seller also reserves the right to consider all order additions as new orders and subject to all terms and conditions.

Seller will not cancel orders for custom or non-cancelable products if Seller has already produced the product or incurred expenses toward producing the product at the time the Customer seeks to cancel.

Delivery

Seller disclaims liability for consequential damages from late deliveries unless seller assumes liability for such damages in writing when the order is placed. Further, Seller disclaims liability where delivery delays caused by strike, differences with workmen, or causes beyond Seller's control, including but not limited to fires, floods, accidents, government actions, shortages of labor, raw materials, production facilities, or transportation. Where delivery delays are caused by labor problems, Seller is not obligated to seek or obtain any settlement which, in Seller's judgment, is not in Seller's best interest.

Standard Packaging

Seller will accept orders from Customer exclusively in multiples of the standard packaging quantity or boxed quantity. Seller reserves the right to reject any order that is not a standard packaging or boxed quantity of a Product.

Always check for the most current General Terms and Conditions and Warranty Statement at www.gfpiping.com under "Price Lists."

Freight

Continental US – Full freight will be paid on the following orders:

1. Pipe \$7,500 net or greater in one of the following categories:
 - a. PPro-Seal
 - b. Contain-It
 - c. Fuseal (1½"–6")
 - d. SYGEF
 - e. PROGEF
 - f. PVC and CPVC, including shapes and rods
 - g. PVC and CPVC, metric
 - h. Duct
 - i. CTS
 - j. LXT
 - k. Blazemaster
 - l. PE 100
 - m. COOL-FIT ABS
 - n. COOL-FIT ABS Plus Pre-insulated

Combination of products from one shipping point to meet freight allowance is at the sole discretion of the seller.

2. Fittings, Valves, & Actuation \$1,500 net or greater

Freight allowed orders will be sent by a designated carrier of Seller's choice. Additional charges will be invoiced to Customer for special handling and air freight when requested. Standard Pipe lengths require long truck beds for shipping and may be shipped separately from valves and/or fittings purchased on the same order. Valves and/or fittings will be shipped using practical shipping methods.

Freight will not be paid on the following orders:

- a. Signet Product
- b. Custom Products
- c. Heat Exchangers
- d. PVC and CPVC Fabricated Fittings 14" and larger
- e. Fuseal Squared, Tanks and Accessories, and Special Fabrications
- f. Fuseal Large Diameter Pipe and Fittings 8" and larger
- g. COOL-FIT ABS Lite Pipe
- h. Double-See
- i. International Orders
- j. Fusion Machines and Accessories

Unless otherwise specified, shipments are surface, prepaid and added to invoice.

Mode of Shipment and Packaging

Seller reserves the right to ship orders in the most economical manner, as long as the product is shipped on or before the promised ship date. If product ships after the promised ship date, Seller may automatically adjust the shipping method to help improve delivery of the delayed shipment, at no additional cost.

If Seller pays freight, Seller may hold shipment until all items become available. Customer bears extra cost of non-standard packaging or handling requested by Customer.

Transfer of Ownership

All products are FOB Seller's facility and title of merchandise transfers when product is loaded onto carrier. Claims for damaged merchandise should be made to carrier by Customer.

Assignment. Customer may not assign its rights under or interest in any purchase order without the prior written consent of Seller. These terms and conditions of sale shall be binding upon and inure to the benefit of Customer and Seller, their successors and permitted assigns.

Technical Documentation and Intellectual Property. Unless specified otherwise, technical documents such as drawings, descriptions, illustrations and the like, constitute only an approximate guide. Seller reserves the right to make any changes considered necessary. Seller expressly reserves any and all intellectual property rights therein.

Non-Conforming Shipments

Customer must notify Seller in writing within 7 days after receipt of shipments not conforming with Customer's order, stating specifically Customer's claim of non-conformity, or Customer is deemed to accept the shipment as is. If Seller is satisfied the shipment is non-conforming, Seller will (i) credit Customer for the price of defective goods or goods shipped but not ordered (including allocated outbound and return freight) upon return of goods; (ii) promptly ship omitted items waiving Seller's new order charges. Customer is required to make timely payment to Seller of any amount which is undisputed or not subject to such claims.

Return of Goods for Credit

Seller accepts returns of certain Engineered Piping Products, Valve and Actuation Products, Signet Instrumentation Products, Waste and Containment Products, and Vinyl Piping Products for a standard restock charge of 25%. Pipe is not returnable. Products denoted with a caret (^) symbol in front of the part number in the current Master Distributor Price List have a 40% restock and products denoted with an asterisk (*) symbol are non-cancelable/non-returnable. Only products purchased within the past twelve (12) months, in original "like new" packaging (full carton quantities), of current design, and listed in the current Master Distributor Price List shall be considered for returns. All products qualifying for return are subject to review for marketability (quantities in question in relationship to historical stock movement) before issuance of a Return Material Authorization (RMA) number. Returns due to Seller's product warranty or order entry/shipping error will not be charged a restock fee.

Product for credit consideration should be returned to Seller's originating location. All returns are subject to inspection upon receipt. No credit will be issued until the returned material has been inspected, accepted, and processed. Customers will be contacted if quantity differences and/or non-acceptable material are found during inspection. Any credit issued will reflect only quantities actually received and accepted by Seller.

Disposition (return to Customer or scrap) of returned product not accepted back by Seller must be provided by Customer within 10 business days, otherwise it will be subject to disposal. All material returns must be accompanied by a valid Return Material Authorization (RMA) number. RMA numbers may be obtained from the Customer Service Department. When requesting a RMA, the original purchase order number and date of purchase must be provided.

All material returns must be received within thirty (30) days of the RMA issuance.

All material returns must be shipped freight prepaid. No collect shipments will be accepted by Seller. Restock charges and prepaid freight do not apply to warranty defective merchandise or returns due to Seller order entry or shipping errors.

Return of Goods for Warranty Evaluation

When requesting a RMA for material evaluation, Customer must first complete and submit a Material Safety Disclosure sheet and Request For Evaluation form obtained from Customer Service. Material arriving to Seller without a valid RMA number will be returned to the customer/distributor, freight collect. RMA numbers must be clearly referenced on all shipping documents and shipping containers.

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We customize! Call now!



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