



SHIELD

Steel Pipes & Fittings





SHIELD

Introduction

SHIELD is a company created to cater to the infrastructure, fire protection and building services industries with a comprehensive range of products designed to be competitive and of assured quality.

We stay ahead of today's evolving market requirements by committing to a program of continued research and development.

We are able to maintain our high standards by ensuring that our worldwide manufacturing networks are the most advanced in the industry in Europe, Asia and America in terms of quality and delivery lead time. Our fully experienced and professional staff is there to provide engineering expertise and after sales service exactly when you need it.

Combine this with highly responsive and customer focused network of distribution centres around the world, you will find that customer satisfaction is what we excel at.

We are justifiably proud of our global client base. With offices and facilities in the UK and Middle East, we are able to comprehend the specific needs of your particular region.

SHIELD PIPING SYSTEM

Trusted Worldwide

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Steel Pipes

For HVAC & Fire Fighting Applications

NOTE: Refer to UL/FM certificates for more information.

Shield Pipes Technical Data

Black & Hot Dipped Galvanized Steel Welded Pipes
Conforming to BS 1387:1985 (EN 10255)

C l a s s	Nominal Bore		Outside Diameter				Wall Thickness		Weight of Black Pipes						Weight of Galvanized Pipes (Calculated)						No. of pipes packed per standard bundle (1 Tonne Approx.)
			Maximum		Minimum				Plain Ended			Screwed & Socketed			Plain Ended			Screwed & Socketed			
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Kg/m	m/ton	ft/ton	kg/m	m/ton	ft/ton	Kg/m	m/ton	ft/ton	kg/m	m/ton	ft/ton	
L I G H T (A)	½	15	0.843	21.4	0.827	21.0	0.079	2.00	0.947	1056	3465	0.956	1046	3432	1.000	1000	3281	1.009	991	3251	160
	¾	20	1.059	26.9	1.039	26.4	0.091	2.30	1.380	725	2379	1.390	719	2359	1.440	694	2277	1.460	690	2264	110
	1	25	1.331	33.8	1.307	33.2	0.102	2.60	1.980	505	1657	2.000	500	1640	2.060	485	1591	2.090	478	1568	80
	1¼	32	1.673	42.5	1.650	41.9	0.102	2.60	2.540	394	1293	2.570	389	1276	2.640	379	1243	2.680	373	1224	61
	1½	40	1.906	48.4	1.882	47.8	0.114	2.90	3.230	310	1017	3.270	306	1004	3.350	298	978	3.400	294	965	51
	2	50	2.370	60.2	2.346	59.6	0.114	2.90	4.080	245	804	4.150	241	791	4.220	237	778	4.300	233	764	37
	2½	65	2.991	76.6	2.961	75.2	0.124	3.20	5.710	175	574	5.830	172	564	5.890	170	558	6.020	166	545	27
	3	80	3.492	88.7	3.461	87.9	0.124	3.20	6.720	149	489	6.890	145	476	6.930	144	472	7.100	141	463	24
	4	100	4.484	113.9	4.449	113.0	0.142	3.60	9.750	103	338	10.000	100	328	10.030	100	328	10.280	97	318	16
M E D I U M (B)	½	15	0.854	21.7	0.831	21.1	0.102	2.60	1.210	826	2710	1.220	820	2690	1.250	794	2605	1.260	787	2582	130
	¾	20	1.071	27.2	1.047	26.6	0.102	2.60	1.560	641	2103	1.570	637	2090	1.620	617	2024	1.640	610	2001	100
	1	25	1.346	34.2	1.315	33.4	0.124	3.20	2.410	415	1362	2.430	412	1352	2.490	402	1319	2.510	398	1306	65
	1¼	32	1.689	42.9	1.657	42.1	0.124	3.20	3.100	323	1060	3.130	319	1047	3.200	312	1024	3.230	310	1017	51
	1½	40	1.921	48.8	1.890	48.0	0.124	3.20	3.570	280	919	3.610	277	909	3.680	272	892	3.720	269	883	44
	2	50	2.394	60.8	2.354	59.8	0.142	3.60	5.030	199	653	5.100	196	643	5.170	193	633	5.250	190	623	30
	2½	65	3.016	76.6	2.969	75.4	0.142	3.60	6.430	156	512	6.550	153	502	6.610	151	495	6.730	149	489	24
	3	80	3.524	89.5	3.469	88.1	0.157	4.00	8.370	119	390	8.540	117	384	8.580	117	384	8.760	114	374	19
	4	100	4.524	114.9	4.461	113.3	0.177	4.50	12.200	82	269	12.500	80	262	12.480	80	260	12.690	79	259	14
	5	125	5.535	140.6	5.461	138.7	0.197	5.00	16.600	60	197	17.100	58	190	16.940	59	194	17.440	57	187	10
H E A V Y (C)	6	150	6.539	166.1	6.461	164.1	0.197	5.00	19.700	51	167	20.300	49	161	20.100	50	164	20.710	48	157	7
	½	15	0.854	21.7	0.831	21.1	0.124	3.20	1.440	694	2277	1.450	690	2264	1.490	671	2202	1.500	667	2188	110
	¾	20	1.071	27.2	1.047	26.6	0.124	3.20	1.870	535	1755	1.880	532	1745	1.930	518	1700	1.950	513	1683	80
	1	25	1.346	34.2	1.315	33.4	0.157	4.00	2.940	340	1115	2.960	338	1109	3.010	332	1089	3.040	329	1079	55
	1¼	32	1.689	42.9	1.657	42.1	0.157	4.00	3.800	263	863	3.830	261	856	3.900	256	840	3.930	254	833	44
	1½	40	1.921	48.8	1.890	48.0	0.157	4.00	4.380	228	748	4.420	226	741	4.490	223	732	4.530	221	725	37
	2	50	2.394	60.8	2.354	59.8	0.177	4.50	6.190	162	531	6.260	160	525	6.330	158	518	6.400	156	512	27
	2½	65	3.016	76.6	2.969	75.4	0.177	4.50	7.930	126	413	8.050	124	407	8.110	123	404	8.230	121	397	20
	3	80	3.524	89.5	3.469	88.1	0.197	5.00	10.300	97	318	10.500	95	312	10.510	95	312	10.710	93	307	16
	4	100	4.524	114.9	4.461	113.3	0.213	5.40	14.500	69	226	14.800	68	223	14.770	68	223	15.070	67	220	12
5	125	5.535	140.6	5.461	138.7	0.213	5.40	17.900	56	184	18.400	54	177	18.210	55	180	18.730	53	174	10	
6	150	6.539	166.1	6.461	164.1	0.213	5.40	21.300	47	154	21.900	46	151	21.700	46	151	22.300	45	148	7	

Tolerances:
THICKNESS: Light Tube -8%, Medium and Heavy Tubes -10%.
WEIGHT: Single Tube +10% -8%, Quantity - 150 metres and above of one size & class ±4%.
LENGTH: 6 metres ±0.05 metres

SHIELD reserves the right to change the contents without notice.

Shield Pipes

Seamless & Welded Steel Pipe

to ASTM A53, Grade A & B (Sizes, Dimensions & Weights)



Nominal Pipe Size	O.D.	Schedule 10		Schedule 20		Schedule 30		Standard		Schedule 40		Schedule 60		Schedule 80	
Inch	mm	Wall	Wt.	Wall	Wt.	Wall	Wt.	Wall	Wt.	Wall	Wt.	Wall	Wt.	Wall	Wt.
3/8	17.1	-	-	-	-	-	-	2.31	0.84	2.31	0.84	-	-	3.20	1.10
1/2	21.3	-	-	-	-	-	-	2.77	1.27	2.77	1.27	-	-	3.73	1.62
3/4	26.7	-	-	-	-	-	-	2.87	1.69	2.87	1.69	-	-	3.91	2.21
1	33.4	-	-	-	-	-	-	3.38	2.50	3.38	2.50	-	-	4.55	3.25
1 1/4	42.2	-	-	-	-	-	-	3.56	3.39	3.56	3.39	-	-	4.85	4.47
1 1/2	48.3	-	-	-	-	-	-	3.68	4.05	3.68	4.05	-	-	5.08	5.39
2	60.3	-	-	-	-	-	-	3.91	5.44	3.91	5.44	-	-	5.54	7.48
2 1/2	73.0	-	-	-	-	-	-	5.16	8.63	5.16	8.63	-	-	7.01	11.41
3	88.9	-	-	-	-	-	-	5.49	11.29	5.49	11.29	-	-	7.62	15.27
3 1/2	101.6	-	-	-	-	-	-	5.74	13.57	5.74	13.57	-	-	8.08	18.63
4	114.3	-	-	-	-	-	-	6.02	16.07	6.02	16.07	-	-	8.56	22.32
5	141.3	-	-	-	-	-	-	6.55	21.77	6.55	21.77	-	-	9.52	30.94
6	168.3	-	-	-	-	-	-	7.11	28.26	7.11	28.26	-	-	10.97	42.56
8	219.1	-	-	6.35	33.31	7.04	36.31	8.18	42.55	8.18	42.55	10.31	53.08	12.70	64.64
10	273.0	-	-	6.35	41.75	7.80	51.01	9.27	60.29	9.27	60.29	12.70	81.52	15.09	95.97
12	323.8	-	-	6.35	49.71	8.38	65.18	9.52	73.78	10.31	79.70	14.27	108.92	17.48	132.04
14	355.6	6.35	54.69	7.92	67.90	9.52	81.25	9.52	81.25	11.13	94.55	15.09	126.71	19.05	158.10
16	406.4	6.35	62.64	7.92	77.83	9.52	93.17	9.52	93.17	12.70	123.30	16.66	160.12	21.44	203.53
18	457.2	6.35	70.60	7.92	87.75	11.13	122.43	9.52	105.10	14.27	155.87	19.05	205.83	23.83	254.67
20	508.0	6.35	78.55	9.52	117.02	12.70	155.12	9.52	117.02	15.09	183.42	20.62	247.83	26.19	311.17
24	610.0	6.35	94.46	9.52	140.88	14.27	209.50	9.52	140.88	17.48	255.24	24.61	355.02	30.96	441.78
26	660.0	7.92	127.43	12.70	202.85	-	-	9.52	152.80	-	-	-	-	-	-

Tensile Requirements

	Grade A	Grade B
Tensile Strength, Min, Psi [MPa]	48,000 [330]	60,000 [415]
Yield Strength, Min, Psi [MPa]	30,000 [205]	35,000 [240]

SHIELD reserves the right to change the contents without notice.

Wall = Wall thickness in mm

Wt. = Weight in Kg/m.

Available in black & hot dipped galvanized

* UL & FM details are available in their respective certificates.

NOTE: Hydrostatic pressure test applied as per ASTM Standards.

Threaded Fittings

For HVAC & Fire Fighting Applications



Shield Ductile Iron Threaded Fittings

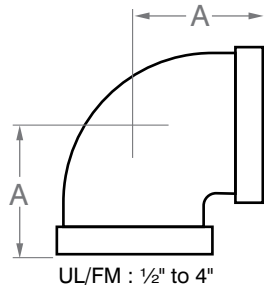
Shield Threaded Fittings feature a complete range of ductile iron (D.I.) threaded fittings in a wide variety of configurations in sizes from ½" to 6".

Shield fittings are UL, ULC listed and FM approved for water line and fire protection applications.

Material	Ductile Iron ASTM A536, BS EN 1563
Max. Working Pressure	500 Psi
Dimensions	American Standard ASME B16.3, B16.14, B16.39 - Class 150
Threads	American Standard ANSI B1.20.1 British Standard BS 21, ISO 7/1 (Taper)
Finish	Black or hot dipped galvanized

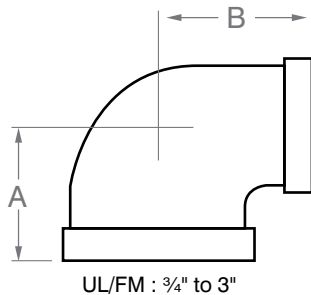


Shield Ductile Iron Threaded Fittings



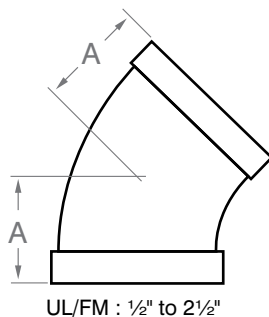
SDT-100 Elbow 90°

Nominal Size	A
Inch	Inch
1/2	1.12
3/4	1.31
1	1.50
1 1/4	1.75
1 1/2	1.94
2	2.25
2 1/2	2.70
3	3.08



SDT-101 Reducing Elbow 90°

Nominal Size	A	B
Inch	Inch	Inch
3/4 x 1/2	1.20	1.22
1 x 1/2	1.26	1.40
1 x 3/4	1.37	1.45
1 1/4 x 1/2	1.34	1.53
1 1/4 x 3/4	1.45	1.62
1 1/4 x 1	1.58	1.67
1 1/2 x 1/2	1.41	1.66
1 1/2 x 3/4	1.52	1.75
1 1/2 x 1	1.65	1.80
1 1/2 x 1 1/4	1.82	1.88
2 x 1/2	1.49	1.88
2 x 3/4	1.60	1.97
2 x 1	1.73	2.02
2 x 1 1/4	1.90	2.10
2 x 1 1/2	2.02	2.16

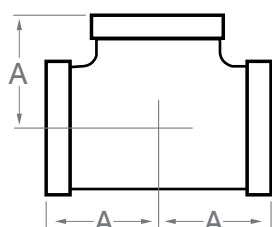


SDT-200 Elbow 45°

Nominal Size	A
Inch	Inch
1/2	0.88
3/4	0.98
1	1.12
1 1/4	1.29
1 1/2	1.43
2	1.68
2 1/2	1.95

Shield Ductile Iron Threaded Fittings

SDT-12 Tee



Nominal Size	A
Inch	Inch
1/2	1.12
3/4	1.31
1	1.50
1 1/4	1.75
1 1/2	1.94
2	2.25
2 1/2	2.70
3	3.08
4	3.79

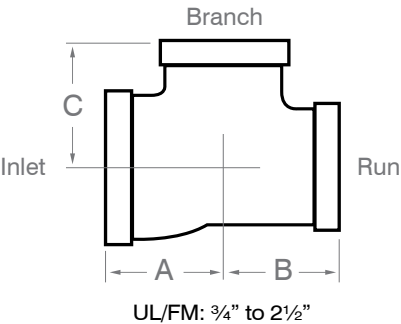
SDT-53 Reducing Tee



Nominal Size			A	B	C
Inlet Inch	Run Inch	Branch Inch	Inch	Inch	Inch
3/4	3/4	1/2	1.20	1.22	1.20
		1	1.45	1.37	1.45
1	1/2	1	1.50	1.50	1.40
		3/4	1.37	1.45	1.31
	3/4	1	1.50	1.50	1.45
		1/2	1.26	1.40	1.26
		3/4	1.37	1.45	1.37
		1 1/4	1.67	1.58	1.67
1 1/4	1	1 1/2	1.80	1.65	1.80
		1 1/4	1.75	1.75	1.53
	1	1/2	1.34	1.53	1.26
		3/4	1.45	1.62	1.37
		1	1.58	1.67	1.50
		1 1/4	1.75	1.75	1.67
1 1/2	1 1/4	1 1/2	1.89	1.81	1.81
		2	2.10	2.30	1.90
	1	1/2	1.41	1.66	1.34
		1	1.65	1.80	1.50
		1 1/4	1.82	1.88	1.67
		1 1/2	1.94	1.94	1.80
2	1 1/4	1 1/2	1.41	1.66	1.34
		1	1.65	1.80	1.58
		1 1/4	1.82	1.88	1.75
		1 1/2	1.94	1.94	1.88
	1 1/2	2	2.16	2.02	2.10
		1/2	1.41	1.66	1.41
		3/4	1.52	1.75	1.52
		1	1.65	1.80	1.65
		1 1/4	1.82	1.88	1.82
	2	2	2.16	2.02	2.16

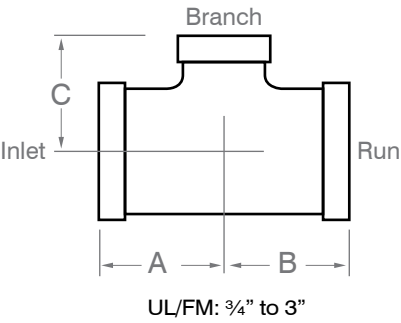
* Refer to UL/FM certificates for more information.
* SHIELD reserves the right to change the contents without notice.

Shield Ductile Iron Threaded Fittings

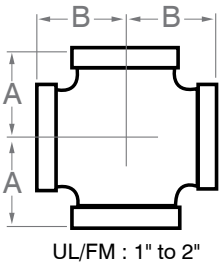


SDT-53 Reducing Tee

Nominal Size			A	B	C
Inlet Inch	Run Inch	Branch Inch	Inch	Inch	Inch
2	1	1½	2.02	2.16	1.80
		2	2.25	2.25	2.02
	1¼	1	1.57	2.01	1.73
		2	2.25	2.25	2.10
	1½	½	1.49	1.88	1.41
		1	1.73	2.02	1.65
		1¼	1.90	2.10	1.82
		1½	2.02	2.16	1.94
		2	2.25	2.25	2.16
	2	½	1.49	1.88	1.49
		¾	1.60	1.97	1.60
		1	1.73	2.02	1.73
		1¼	1.90	2.10	1.90
		1½	2.02	2.16	2.02
		2½	2.60	2.39	2.01



SDT-13 Cross



Nominal Size		A
Inch		Inch
¾		1.30
1		1.50
1¼		1.75
1½		1.94
2		2.25

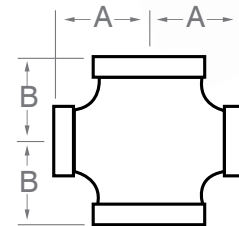


Shield Ductile Iron Threaded Fittings



SDT-51 Reducing Cross

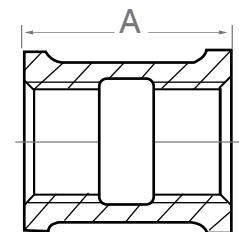
Nominal Size	A	B
Inch	Inch	Inch
1¼ x 1	1.18	1.22
1½ x 1	1.26	1.34
2 x 1	1.34	1.50



UL/FM : 1¼" to 2"

SDT-22 Straight Coupling

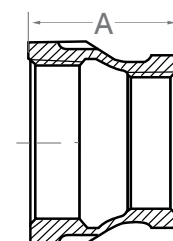
Nominal Size	A
Inch	Inch
½	1.34
¾	1.52
1	1.67
1¼	1.93
1½	2.15
2	2.53



UL/FM : ½" to 2½"

SDT-30 Reducing Coupling

Nominal Size	A
Inch	Inch
1 x ½	1.69
1 x ¾	1.69
1¼ x ¾	2.06
1¼ x 1	2.06
1½ x 1	2.31
1½ x 1¼	2.31
2 x 1	2.81
2 x 1¼	2.81
2 x 1½	2.81

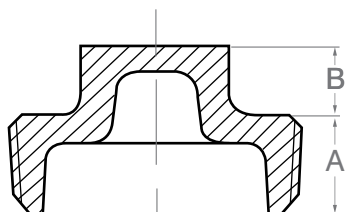


UL/FM: ½" to 1½"



* Refer to UL/FM certificates for more information.
* SHIELD reserves the right to change the contents without notice.

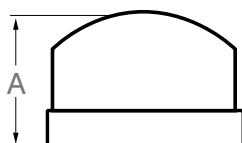
Shield Ductile Iron Threaded Fittings



UL/FM : ½" to 2"

SDT-55 Plug

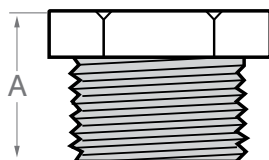
Nominal Size	A
Inch	Inch
½	0.94
¾	1.07
1	1.25
1¼	1.36
1½	1.45
2	1.56



UL/FM : ½" to 2½"

SDT-14 Cap

Nominal Size	A
Inch	Inch
½	0.87
¾	0.97
1	1.16
1¼	1.28
1½	1.33
2	1.45
2½	1.70

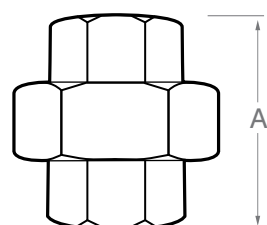


UL/FM: ¾" to 2"

SDT-57 Hex Bushing

Nominal Size	A
Inch	Inch
1 x ½	1.00
1 x ¾	1.00
1¼ x 1	1.08
1½ x 1	1.14
1½ x 1¼	1.14
2 x 1¼	1.22
2 x 1½	1.22

Shield Ductile Iron Threaded Fittings



UL/FM: 1" to 2"

SDT-59 Union

Nominal Size	A
Inch	Inch
1	2.07
1¼	2.26
1	2.40
2	2.76



* Refer to UL/FM certificates for more information.
* SHIELD reserves the right to change the contents without notice.

Shield Malleable Iron Threaded Fittings

Shield Threaded Fittings feature a complete range of malleable iron (M.I.) threaded fittings in a wide variety of configurations in sizes from ½" to 6".

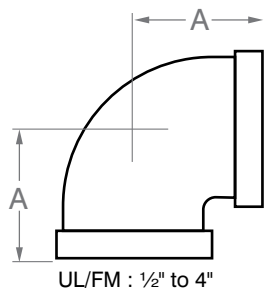
Shield fittings are UL, ULC listed and FM approved for water line and fire protection applications.

Material	Malleable Iron BS EN 1562
Max. Working Pressure	500 Psi
Dimensions	British Standard BS EN 10242, BS 143 & 1256
Threads	American Standard ANSI B1.20.1 British Standard BS 21, ISO 7/1 (Taper)
Finish	Black or hot dipped galvanized



Shield Malleable Iron Threaded Fittings

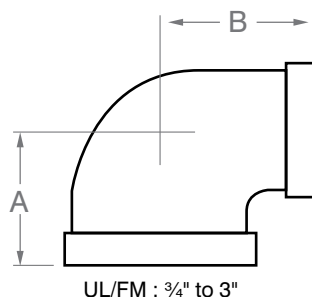
SDT-100 Elbow 90°



Nominal Size	A
Inch	Inch
1/8	0.74
1/4	0.83
3/8	0.98
1/2	1.10
3/4	1.30
1	1.50
1 1/4	1.77

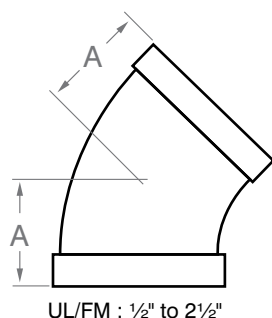
Nominal Size	A
Inch	Inch
1 1/2	1.97
2	2.28
2 1/2	2.71
3	3.07
4	3.78
5	4.53
6	5.16

SDT-101 Reducing Elbow 90°



Nominal Size	A	B
Inch	Inch	Inch
1/4 x 1/8	0.74	0.76
3/8 x 1/8	0.81	0.85
3/8 x 1/4	0.91	0.91
1/2 x 1/4	0.97	0.98
1/2 x 3/8	1.02	1.02
3/4 x 1/4	1.05	1.08
3/4 x 3/8	1.10	1.10
3/4 x 1/2	1.18	1.22
1 x 1/4	1.06	1.22
1 x 3/8	1.18	1.27
1 x 1/2	1.26	1.34
1 x 3/4	1.38	1.42
1 1/4 x 3/8	1.26	1.44
1 1/4 x 1/2	1.26	1.46
1 1/4 x 3/4	1.42	1.61
1 1/4 x 1	1.57	1.65
1 1/2 x 1/2	1.34	1.61
1 1/2 x 3/4	1.47	1.65
1 1/2 x 1	1.65	1.81
1 1/2 x 1 1/4	1.81	1.89
2 x 1/2	1.38	1.85

Nominal Size	A	B
Inch	Inch	Inch
2 x 3/4	1.57	1.89
2 x 1	1.75	1.87
2 x 1 1/4	1.85	2.09
2 x 1 1/2	2.05	2.20
2 1/2 x 3/4	1.67	2.24
2 1/2 x 1	1.83	2.30
2 1/2 x 1 1/4	1.99	2.36
2 1/2 x 1 1/2	2.16	2.51
2 1/2 x 2	2.40	2.60
3 x 3/4	1.77	2.56
3 x 1	1.97	2.66
3 x 1 1/4	2.11	2.68
3 x 1 1/2	2.20	2.72
3 x 2	2.52	2.87
3 x 2 1/2	2.80	2.91
4 x 1 1/4	2.36	3.35
4 x 1 1/2	2.44	3.35
4 x 2	2.68	3.39
4 x 2 1/2	3.03	3.50
4 x 3	3.23	3.54
6 x 4	4.02	4.92



SDT-200 Elbow 45°

Nominal Size	A
Inch	Inch
1/8	0.63
1/4	0.75
3/8	0.79
1/2	0.87
3/4	0.98
1	1.10
1 1/4	1.30

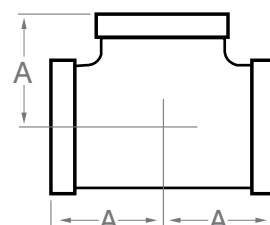
Nominal Size	A
Inch	Inch
1 1/2	1.42
2	1.69
2 1/2	1.97
3	2.17
4	2.60
5	3.05
6	3.46

Shield Malleable Iron Threaded Fittings

SDT-12 Tee

Nominal Size	A
Inch	Inch
1/8	0.75
1/4	0.83
3/8	0.98
1/2	1.12
3/4	1.31
1	1.50
1 1/4	1.75

Nominal Size	A
Inch	Inch
1 1/2	1.94
2	2.25
2 1/2	2.70
3	3.08
4	3.79
5	4.52
6	5.16



UL/FM: 1/2" to 4"

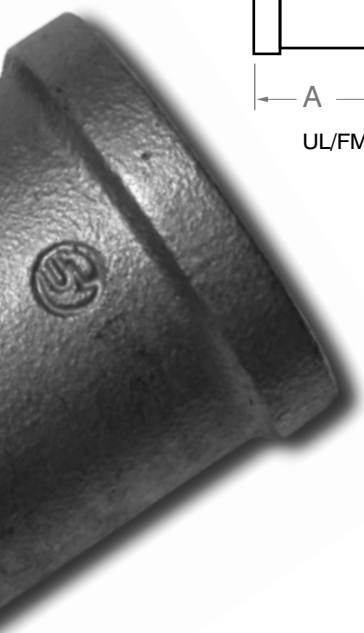
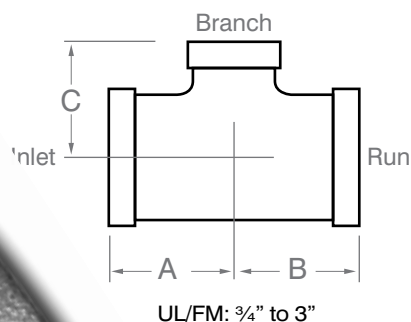
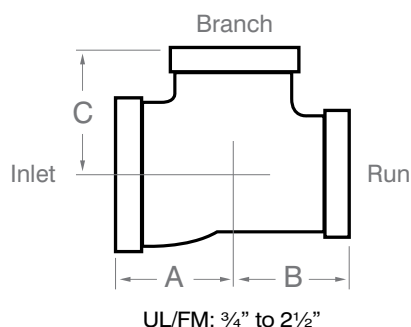
SDT-53 Reducing Tee

Nominal Size			A	B	C
Inlet Inch	Run Inch	Branch Inch	Inch	Inch	Inch
1/4	1/4	1/8	0.74	0.76	0.74
3/8	3/8	1/4	0.91	0.91	0.91
1/2	1/2	3/8	1.02	1.02	1.02
		1/4	1.22	1.18	1.22
		1	1.34	1.26	1.34
		3/8	0.87	0.91	0.87
		1/4	0.94	0.94	0.94
3/4	1/2	1/2	1.18	1.22	1.10
		3/4	1.30	1.30	1.22
		1	1.50	1.34	1.30
	3/4	1/4	1.02	1.06	1.02
		3/8	1.10	1.10	1.10
		1/2	1.20	1.22	1.20
		1	1.45	1.37	1.45
		1 1/4	1.61	1.42	1.61
1	1/4	1	1.46	1.46	1.18
		1/2	1.26	1.34	1.10
		3/4	1.38	1.42	1.22
	1/2	1	1.50	1.50	1.40
		3/4	1.37	1.45	1.31
		1	1.50	1.50	1.45
	3/4	1/4	1.10	1.22	1.10
		3/8	1.18	1.26	1.18
		1/2	1.26	1.40	1.26
		3/4	1.37	1.45	1.37
		1 1/4	1.67	1.58	1.67
		1 1/2	1.80	1.65	1.80
		2	2.02	1.93	2.02
		2 1/2	2.36	1.89	2.36
		1/2	1.34	1.50	1.06
1 1/4	1/2	3/4	1.38	1.50	1.14
		1	1.58	1.67	1.36
		1 1/4	1.75	1.75	1.53
		1/2	1.57	1.67	1.46
		3/4	1.42	1.61	1.30
	3/4	1	1.57	1.65	1.42
		1 1/4	1.77	1.77	1.61
		1/2	1.34	1.53	1.26
		3/4	1.45	1.62	1.37
		1	1.58	1.67	1.50
	1	1 1/4	1.75	1.75	1.67
		1 1/2	1.89	1.81	1.81



Shield Malleable Iron Threaded Fittings

SDT-53 Reducing Tee



Nominal Size			A	B	C
Inlet Inch	Run Inch	Branch Inch	Inch	Inch	Inch
1 1/4	1 1/4	1/8	0.74	0.76	0.74
3/8	3/8	1/4	0.91	0.91	0.91
1/2	1/2	3/8	1.02	1.02	1.02
		3/4	1.22	1.18	1.22
		1	1.34	1.26	1.34
		1 1/8	0.87	0.91	0.87
		1 1/4	0.94	0.94	0.94
3/4	1/2	1/2	1.18	1.22	1.10
		3/4	1.30	1.30	1.22
		1	1.50	1.34	1.30
	3/4	1 1/4	1.02	1.06	1.02
		3/8	1.10	1.10	1.10
		1/2	1.18	1.22	1.18
		1	1.42	1.38	1.42
1	1/4	1 1/4	1.61	1.42	1.61
		1	1.46	1.46	1.18
	1/2	1/2	1.26	1.34	1.10
		3/4	1.38	1.42	1.22
		1	1.50	1.50	1.34
	3/4	3/4	1.38	1.42	1.30
		1	1.50	1.50	1.42
	1	1 1/4	1.10	1.22	1.10
		3/8	1.18	1.26	1.18
		1/2	1.26	1.34	1.26
		3/4	1.38	1.42	1.38
		1 1/4	1.65	1.57	1.65
		1 1/2	1.81	1.65	1.81
		2	2.02	1.93	2.02
		2 1/2	2.36	1.89	2.36
1 1/4	1/2	1/2	1.34	1.50	1.06
		3/4	1.38	1.50	1.14
		1	1.58	1.67	1.36
		1 1/4	1.77	1.77	1.50
	3/4	1/2	1.57	1.67	1.46
		3/4	1.42	1.61	1.30
		1	1.57	1.65	1.42
		1 1/4	1.77	1.77	1.61
	1	1/2	1.34	1.50	1.26
		3/4	1.42	1.61	1.38
		1	1.57	1.65	1.50
		1 1/4	1.77	1.77	1.65
	1 1/4	3/8	1.26	1.42	1.26
		1/2	1.34	1.50	1.34
		3/4	1.42	1.61	1.42
		1	1.57	1.65	1.57
		1 1/2	1.89	1.81	1.89
		2	2.13	1.89	2.13
	1/2	1	1.73	1.81	1.34
		1 1/2	1.97	1.97	1.65
1 1/2	3/4	3/4	1.50	1.69	1.26
		1	1.73	1.81	1.38
		1 1/4	1.81	1.89	1.61
	1	1 1/2	1.97	1.97	1.73
		1 1/2	1.46	1.61	1.26
		1	1.65	1.81	2.05
	1 1/4	1 1/4	1.81	1.89	2.60
		1 1/2	1.97	1.97	1.81
		1 1/2	1.97	1.97	1.81

* Refer to UL/FM certificates for more information.
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Shield Malleable Iron Threaded Fittings

SDT-53 Reducing Tee

Nominal Size			A	B	C
Inlet Inch	Run Inch	Branch Inch	Inch	Inch	Inch
1½	1¼	½	1.42	1.65	1.34
		¾	1.50	1.73	1.42
		1	1.65	1.81	1.57
		1¼	1.81	1.89	1.77
		1½	1.97	1.97	1.89
		2	2.17	2.03	2.11
	1½	¾	1.34	1.54	1.34
		½	1.42	1.65	1.42
		¾	1.50	1.73	1.50
		1	1.65	1.81	1.65
		1¼	1.81	1.89	1.81
		2	2.17	2.05	2.17
		2½	2.44	2.56	2.44
2	¾				
		½	2.24	2.24	1.89
	1	2	2.28	2.28	1.97
		1	1.73	2.01	1.50
		1½	2.02	2.16	1.80
		2	2.28	2.28	2.05
	1¼	1	1.57	2.01	1.73
		1¼	1.89	2.13	1.77
		1½	2.05	2.17	1.89
		2	2.28	2.28	2.13
	1½	½	1.50	1.89	1.42
		¾	1.57	1.97	1.50
		1	1.73	2.05	1.65
		1¼	1.89	2.13	1.81
		1½	2.05	2.17	1.97
		2	2.28	2.28	2.17
	2	¾	1.42	1.81	1.42
		½	1.50	1.89	1.50
		¾	1.57	1.97	1.57
		1	1.73	2.05	1.73
		1¼	1.89	2.13	1.89
		1½	2.05	2.17	2.05
		2½	2.60	2.40	2.60
2½	1½	2½	2.72	2.72	2.52
		½	1.73	2.28	1.73
	2	1	2.09	2.36	2.09
		1¼	2.24	2.52	2.05
		2	2.38	2.60	2.24
		2½	2.64	2.64	2.56
	2½	½	1.61	2.24	1.61
		¾	1.73	2.32	1.73
		1	1.85	2.36	1.85
		1¼	2.05	2.44	2.05
		1½	2.17	2.48	2.17
		2	2.40	2.60	2.40
		3	2.95	2.83	2.95
		4	3.54	3.07	3.54
3	2				
	2½	2	2.52	2.89	2.25
	3				
		½	1.65	2.52	1.65
		¾	1.77	2.56	1.77
		1	2.01	2.64	2.01
		1¼	2.17	2.76	2.17
		1½	2.28	2.80	2.28



Shield Malleable Iron Threaded Fittings

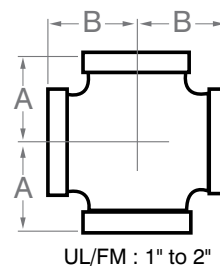
SDT-53 Reducing Tee

Nominal Size			A	B	C
Inlet Inch	Run Inch	Branch Inch	Inch	Inch	Inch
3	3	2	2.52	2.87	2.52
		2½	2.83	2.99	2.83
4	4	2	2.64	3.29	2.36
		½	1.97	3.11	1.97
		¾	2.09	3.11	2.09
		1	2.20	3.19	2.20
		1¼	2.40	3.27	2.40
		1½	2.52	3.31	2.52
		2	2.76	3.39	2.76
		2½	3.03	3.50	3.03
6	6	3	3.31	3.62	3.31
		2	2.95	4.53	2.95
		3	3.62	4.76	3.62
		4	4.13	4.92	4.13



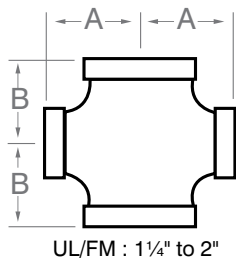
SDT-13 Cross

Nominal Size	A
Inch	Inch
⅛	0.75
¼	0.83
⅜	0.98
½	1.10
¾	1.30
1	1.50
1¼	1.75
1½	1.94
2	2.25
2½	2.72
3	3.07
4	3.78



Shield Malleable Iron Threaded Fittings

SDT-51 Reducing Cross



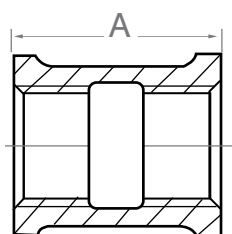
Nominal Size	A	B
Inch	Inch	Inch
3/4 x 1/2	1.18	1.22
1 x 1/2	1.26	1.34
1 x 3/4	1.38	1.42
1 1/4 x 1/2	1.30	1.46
1 1/4 x 3/4	1.42	1.61
1 1/4 x 1	1.57	1.65
1 1/2 x 1/2	1.36	1.61
1 1/2 x 3/4	1.44	1.67
1 1/2 x 1	1.65	1.81
1 1/2 x 1 1/4	1.73	1.85
2 x 3/4	1.57	1.89
2 x 1	1.69	1.97
2 x 1 1/4	1.85	2.09
2 x 1 1/2	2.01	2.13
2 1/2 x 3/4	1.83	2.30
2 1/2 x 1	1.83	2.30
2 1/2 x 1 1/4	1.97	2.36
2 1/2 x 1 1/2	2.13	2.42
2 1/2 x 2	2.36	2.56
3 x 3/4	1.77	2.56
3 x 1	1.93	2.60
3 x 1 1/4	2.09	2.68
3 x 1 1/2	2.22	2.74
3 x 2	2.44	2.80
3 x 2 1/2	2.76	2.91
4 x 1	2.20	3.23
4 x 1 1/4	2.36	3.35
4 x 1 1/2	2.44	3.35
4 x 2	2.68	3.39
4 x 2 1/2	3.01	3.48
4 x 3	3.23	3.54





Shield Malleable Iron Threaded Fittings

SDT-22 Straight Coupling

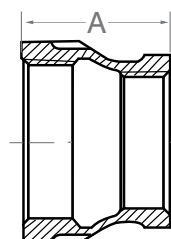


UL/FM : ½" to 2½"

Nominal Size	A
Inch	Inch
⅛	0.98
¼	1.06
⅜	1.18
½	1.34
¾	1.52
1	1.67
1¼	1.93

Nominal Size	A
Inch	Inch
1½	2.15
2	2.53
2½	2.91
3	3.15
4	3.70
5	4.17
6	4.72

SDT-30 Reducing Coupling



UL/FM: ½" to 1½"

Nominal Size	A
Inch	Inch
¼ x ⅛	1.06
⅜ x ⅛	1.18
⅜ x ¼	1.18
½ x ⅛	1.24
½ x ¼	1.24
½ x ⅜	1.24
¾ x ⅛	1.42
¾ x ¼	1.42
¾ x ⅜	1.42
¾ x ½	1.54
1 x ¼	1.67
1 x ⅜	1.67
1 x ½	1.69
1 x ¾	1.69
1¼ x ¼	1.97
1¼ x ⅜	1.97
1¼ x ½	1.97
1¼ x ¾	2.06
1¼ x 1	2.06
1½ x ¼	2.32
1½ x ⅜	2.30
1½ x ½	2.17
1½ x ¾	2.17
1½ x 1	2.31
1½ x 1¼	2.31
2 x ½	2.56
2 x ¾	2.56

Nominal Size	A
Inch	Inch
2 x 1	2.81
2 x 1¼	2.81
2 x 1½	2.81
2½ x ½	2.91
2½ x ¾	2.48
2½ x 1	2.91
2½ x 1¼	2.91
2½ x 1½	2.91
2½ x 2	2.91
3 x ½	2.78
3 x ¾	3.15
3 x 1	2.78
3 x 1¼	3.15
3 x 1½	3.15
3 x 2	3.15
3 x 2½	3.15
4 x 1	3.70
4 x 1¼	3.35
4 x 1½	3.70
4 x 2	3.70
4 x 2½	3.70
4 x 3	3.70
5 x 4	4.80
6 x 4	4.72
6 x 2	4.13
6 x 3	4.13

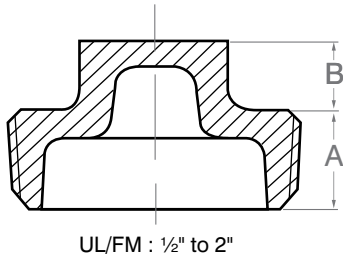
* Refer to UL/FM certificates for more information.

* SHIELD reserves the right to change the contents without notice.



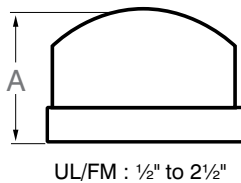
Shield Malleable Iron Threaded Fittings

SDT-55 Plug



Nominal Size	A
Inch	Inch
1/8	0.43
1/4	0.55
3/8	0.59
1/2	0.94
3/4	1.07
1	1.25
1 1/4	1.36
1 1/2	1.45
2	1.56
2 1/2	1.54
3	1.73
4	2.28
6	2.52

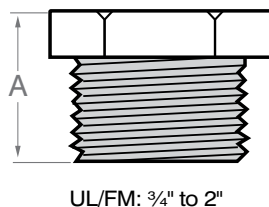
SDT-14 Cap



Nominal Size	A
Inch	Inch
1/8	0.51
1/4	0.59
3/8	0.67
1/2	0.87
3/4	0.97
1	1.16
1 1/4	1.28

Nominal Size	A
Inch	Inch
1 1/2	1.33
2	1.45
2 1/2	1.70
3	1.50
4	1.77
5	2.32
6	2.55

SDT-57 Hex Bushing

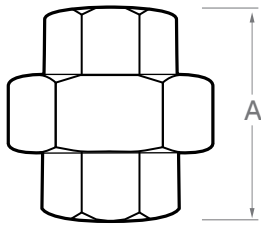


Nominal Size	A
Inch	Inch
1/4 x 1/8	0.79
3/8 x 1/8	0.79
3/8 x 1/4	0.79
1/2 x 1/8	0.94
1/2 x 1/4	0.94
1/2 x 3/8	0.94
3/4 x 1/8	1.02
3/4 x 1/4	1.02
3/4 x 3/8	1.02
3/4 x 1/2	1.02
1 x 1/4	1.14
1 x 3/8	1.14
1 x 1/2	1.00
1 x 3/4	1.00
1 1/4 x 3/8	1.22
1 1/4 x 1/2	1.22
1 1/4 x 3/4	1.22
1 1/4 x 1	1.08
1 1/2 x 1/4	1.22
1 1/2 x 3/8	1.22
1 1/2 x 1/2	1.22

Nominal Size	A
Inch	Inch
1 1/2 x 3/4	1.22
1 1/2 x 1	1.14
1 1/2 x 1 1/4	1.14
2 x 1	1.38
2 x 1 1/4	1.22
2 x 1 1/2	1.22
2 1/2 x 1/2	1.57
2 1/2 x 3/4	1.57
2 1/2 x 1 1/2	1.57
2 1/2 x 2	1.57
3 x 2	1.73
3 x 2 1/2	1.73
4 x 3/4	2.01
4 x 1	2.01
4 x 1 1/4	2.01
4 x 1 1/2	2.01
4 x 3	2.01
5 x 4	1.85
6 x 2 1/2	2.72
6 x 5	2.52

Shield Malleable Iron Threaded Fittings

SDT-59 Union

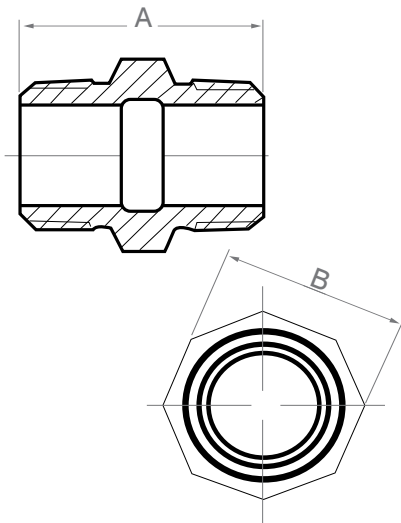


UL/FM: 1" to 2"

Nominal Size	A
Inch	Inch
1/8	1.50
1/4	1.54
3/8	1.77
1/2	1.89
3/4	2.17
1	2.07
1 1/4	2.26

Nominal Size	A
Inch	Inch
1 1/2	2.40
2	2.76
2 1/2	3.35
3	3.74
4	4.72
6	5.71

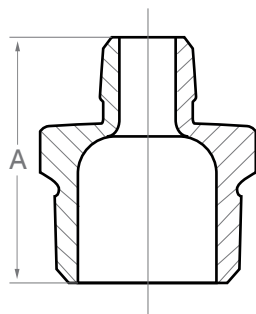
SDT-11 Hex Nipple



Nominal Size	A
Inch	Inch
1/8	1.14
1/4	1.42
3/8	1.50
1/2	1.73
3/4	1.85
1	2.09
1 1/4	2.24

Nominal Size	A
Inch	Inch
1 1/2	2.32
2	2.68
2 1/2	2.95
3	3.27
4	3.74
5	4.06
6	4.33

SDT-111 Hex Reducing Nipple



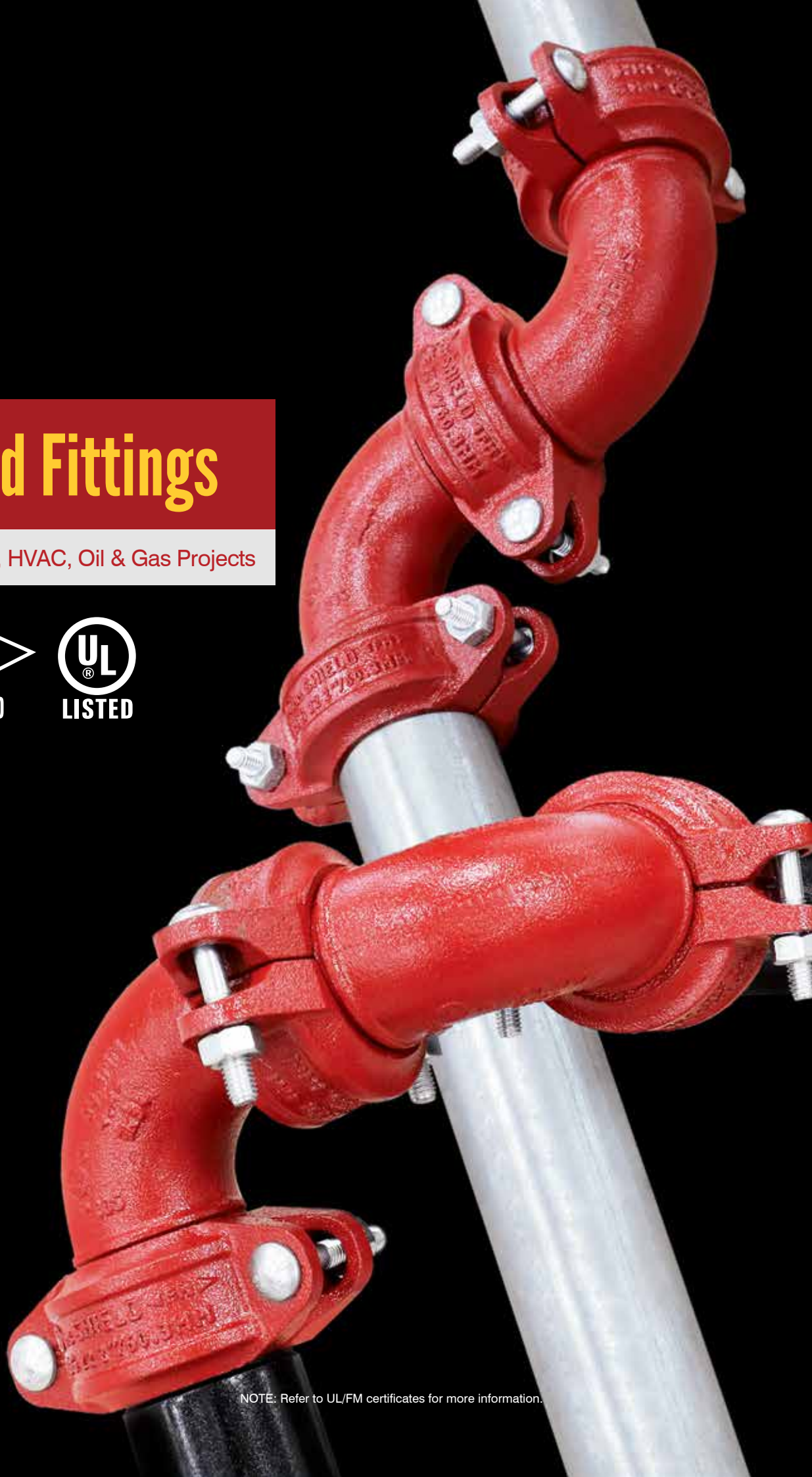
Nominal Size	A
Inch	Inch
1/4 x 1/8	1.22
3/8 x 1/4	1.50
1/2 x 1/4	1.73
1/2 x 3/8	1.73
3/4 x 1/4	1.85
3/4 x 3/8	1.85
3/4 x 1/2	1.85
1 x 1/2	2.09
1 x 3/4	2.09
1 1/4 x 1/2	2.24
1 1/4 x 3/4	2.24
1 1/4 x 1	2.24
1 1/2 x 1/2	2.32
1 1/2 x 3/4	2.32
1 1/2 x 1	2.32
1 1/2 x 1 1/4	2.32
2 x 1/2	2.68
2 x 3/4	2.68
2 x 1	2.68
2 x 1 1/4	2.68
2 x 1 1/2	2.68
2 1/2 x 1	2.95
2 1/2 x 1 1/4	2.95
2 1/2 x 1 1/2	2.95
2 1/2 x 2	2.95
3 x 1 1/2	3.27
3 x 2	3.27
3 x 2 1/2	3.27
4 x 2	3.43
4 x 2 1/2	3.43
4 x 3	3.43



* Refer to UL/FM certificates for more information.
* SHIELD reserves the right to change the contents without notice.

Grooved Fittings

for Fire Fighting, HVAC, Oil & Gas Projects



NOTE: Refer to UL/FM certificates for more information.

Shield Grooved Fittings



The Shield Grooved System provides an economical and efficient piping system solution and offers significant benefits when compared to conventional types of pipe connections including:

- Faster Installation
- Because there is no need for welding or heating, the Shield System ensures a safer and reliable working environment
- Ensures easy alignment
- Reduces noise and vibration
- Easy to install and remove in case of any maintenance requirements

Feature a wide range of coupling and fittings for piping applications in Air Conditioning, Fire Fighting Systems and water pipe lines etc...

Shield Grooved Systems offer 3 types of couplings:

High Pressure Couplings (Flexible) • Medium Pressure Couplings (Rigid, Flexible) • Light Pressure Couplings (Rigid, Flexible)

Material

Shield Grooved Coupling housing and other grooved fittings are cast from Ductile Iron to ASTM A536 Grade 65-45-12 in red paint or hot dipped galvanized, bolts are carbon steel to ISO 898-1 class 8.8 heat treated, hot dipped galvanized nuts and bolt can also be supplied upon request.

Gasket (C shaped)

Shield Grooved Coupling are available in various types of gasket.

Coupling with EPDM rubber gasket are widely used around the world and it conforms to ASTM D2000-1, Grade A.

It is important to use the gasket that suits your application, use the table below to select the optimum gasket.

Material	Temperature Range	Colour	General Recommended Application
EPDM	-34° C ~ +110° C	Green Strip	Hot water service, variety of diluted acid, oil free air, chemical. This is NOT recommended for Petroleum services.
Nitrile	-29° C ~ +82° C	Orange Strip	Petroleum products, vegetable and mineral oils, air with oil vapours. This is NOT recommended for hot water +66°C or for hot dry air over +60°C.
Silicone	-34° C ~ +177° C	Red Gasket	Dry heat and air without hydrocarbons up to +177°C and certain chemicals.

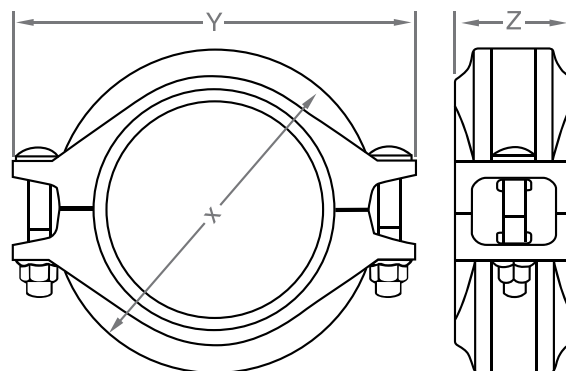
SHIELD Grooved Coupling EPDM Gaskets must be lubricated on the lips and outside back prior to assembly using silicon based non-petroleum lubricant.

Shield Grooved Red Paint fittings are recommended to use for indoor applications, in normal condition galvanized grooved fittings can be used for outdoor application, however, considering the atmosphere further coating protection may need to apply according to the project requirement. For more details about lubricant for other types of gasket, please contact us.

* Refer to UL/FM certificates for more information.

* SHIELD reserves the right to change the contents without notice.

Shield Rigid Coupling



SDG-22 Standard

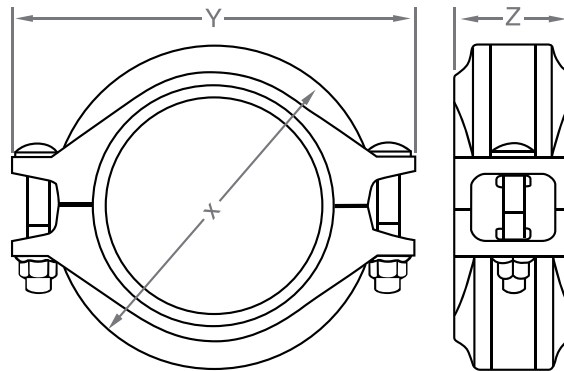
Nominal Size	Pipe O.D.	Maximum Working Pressure	Dimensions			Bolt/Nut No. - Size
Inch	mm	Psi	X mm	Y mm	Z mm	mm
1	33.4	500	59.0	100.0	44.0	2- $\frac{3}{8}$ x 55
1 $\frac{1}{4}$	42.2	500	66.0	105.0	45.0	2- $\frac{3}{8}$ x 55
1 $\frac{1}{2}$	48.3	500	72.0	110.0	45.0	2- $\frac{3}{8}$ x 55
2	60.3	500	86.0	132.5	45.0	2- $\frac{3}{8}$ x 55
2 $\frac{1}{2}$	73.0	500	99.0	154.0	45.0	2- $\frac{3}{8}$ x 55
3 O.D.	76.1	500	102.5	152.5	45.0	2- $\frac{3}{8}$ x 55
3	88.9	500	117.0	168.5	46.0	2- $\frac{1}{2}$ x 70
4 O.D.	108.0	500	140.0	197.0	52.0	2- $\frac{1}{2}$ x 70
4	114.3	500	148.0	200.0	52.5	2- $\frac{1}{2}$ x 70
5	133.0	300	165.0	232.0	52.5	2- $\frac{5}{8}$ x 85
5 $\frac{1}{2}$ O.D.	139.7	500	172.0	235.0	52.5	2- $\frac{5}{8}$ x 85
5	141.3	500	172.0	231.5	52.5	2- $\frac{5}{8}$ x 85
6	159.0	300	190.0	258.0	52.5	2- $\frac{5}{8}$ x 85
6 $\frac{1}{2}$ O.D.	165.1	500	199.5	267.5	52.5	2- $\frac{5}{8}$ x 85
6	168.3	500	203.0	271.5	52.5	2- $\frac{5}{8}$ x 85
8	219.1	500	246.5	350.0	62.0	2- $\frac{3}{4}$ x 115
10	267.4	300	318.0	396.0	63.0	2- $\frac{3}{4}$ x 115
10	273.0	500	333.0	428.0	63.0	2- $\frac{3}{4}$ x 125
12	318.5	300	364.0	456.0	63.0	2- $\frac{7}{8}$ x 140
12	323.9	500	390.0	470.0	63.0	2- $\frac{7}{8}$ x 140
14	355.6	300	415.0	510.0	72.0	3- $\frac{7}{8}$ x 140
16	406.4	300	468.0	575.0	72.0	3- $\frac{7}{8}$ x 140
18	457.2	225	508.0	608.0	78.0	3- $\frac{7}{8}$ x 140
20	508.0	225	563.0	660.0	78.0	4- $\frac{7}{8}$ x 140
24	610.0	225	668.0	772.0	78.0	4-1 x 140

* Refer to UL certificates for more information.

* SHIELD reserves the right to change the contents without notice.

Shield Rigid Coupling provides rigid joints to prevent liner movement of pipe assembly. With a unique end locked design, SDG-22 coupling can be used when the application or design calls for rigid installations.

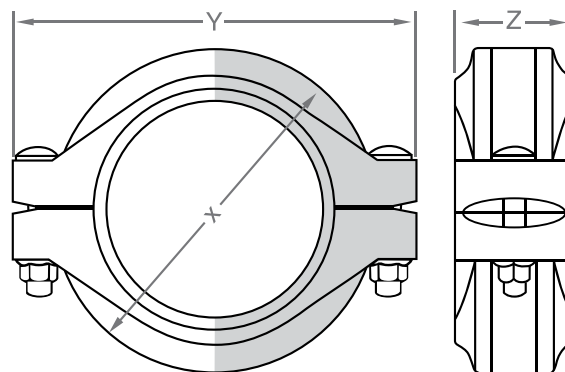
Shield Rigid Coupling



SDG-20 Light

Nominal Size	Pipe O.D.	Maximum Working Pressure	Dimensions			Bolt/Nut No. - Size
Inch	mm	Psi	X mm	Y mm	Z mm	mm
3	88.9	350	114.0	160.0	45.0	2- $\frac{3}{8}$ x 57
4 O.D.	108.0	300	135.0	185.0	50.0	2- $\frac{1}{2}$ x 70
4	114.3	350	140.0	192.0	46.5	2- $\frac{1}{2}$ x 70
5 $\frac{1}{2}$ O.D.	139.7	350	168.0	225.0	50.0	2- $\frac{1}{2}$ x 76
5	141.3	350	170.0	225.0	50.0	2- $\frac{1}{2}$ x 76
6 O.D.	159.0	300	190.0	252.0	50.0	2- $\frac{5}{8}$ x 85
6 $\frac{1}{2}$ O.D.	165.1	350	195.0	250.0	50.0	2- $\frac{1}{2}$ x 76
6	168.3	350	200.0	255.0	50.0	2- $\frac{1}{2}$ x 76
8 O.D.	216.3	300	255.0	320.0	58.0	2- $\frac{5}{8}$ x 85
8	219.1	350	255.0	324.0	58.0	2- $\frac{5}{8}$ x 85
10	273.0	300	318.0	410.0	63.0	2- $\frac{3}{4}$ x 115

Shield Flexible Coupling



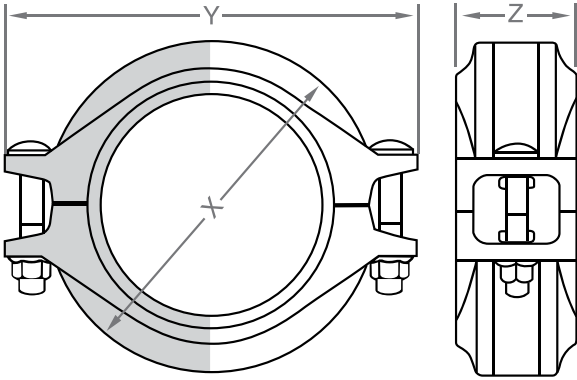
SDG-27 Heavy Duty

Shield SDG-27 is a high pressure flexible coupling can be used in different applications where high pressure service is required.

Nominal Size	Pipe O.D.	Maximum Working Pressure	Dimensions			Bolt/Nut No. - Size
Inch	mm	Psi	X mm	Y mm	Z mm	mm
2	60.3	750	90.0	134	45.0	2- $\frac{1}{2}$ x 75
2 $\frac{1}{2}$	73.0	750	100.0	150	45.0	2- $\frac{1}{2}$ x 75
3 O.D.	76.1	750	102.0	154.0	45.0	2- $\frac{1}{2}$ x 75
3	88.9	750	121.0	172.0	45.0	2- $\frac{1}{2}$ x 75
4	114.3	750	151.0	214.0	50.0	2- $\frac{5}{8}$ x 85
5	141.3	750	180.0	248.0	51.0	2- $\frac{3}{4}$ x 115
6 $\frac{1}{2}$ O.D.	165.1	750	205.0	278.0	51.0	2- $\frac{3}{4}$ x 115
6	168.3	750	208.0	284.0	51.0	2- $\frac{3}{4}$ x 115
8	219.1	750	268.0	354.0	61.0	2- $\frac{7}{8}$ x 140
12	323.9	500	385.2	477.0	66.0	2- $\frac{7}{8}$ x 140

* Refer to UL/FM certificates for more information.
 * SHIELD reserves the right to change the contents without notice.

Shield Flexible Coupling



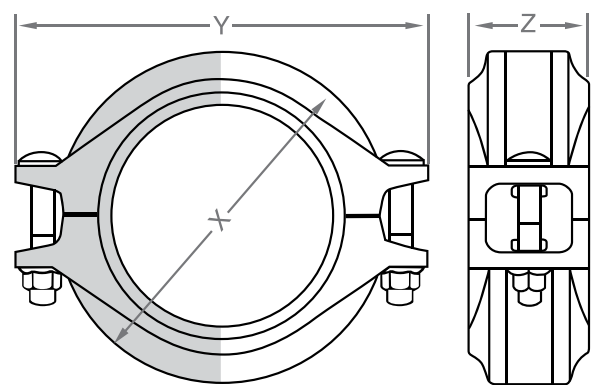
SDG-25 Standard

Shield Flexible Couplings allow controlled angular movement of the pipe to assist alignment and installation. The advantage of flexibility must be considered in the design or hanger and support spacing.

Nominal Size	Pipe O.D.	Maximum Working Pressure	Dimensions			Bolt/Nut No. - Size
Inch	mm	Psi	X mm	Y mm	Z mm	mm
1	33.7	500	55.0	92.0	42.0	2- ³ / ₈ x 57
1¼	42.4	500	65.0	104.0	44.0	2- ³ / ₈ x 57
1½	48.3	500	70.0	110.0	44.0	2- ³ / ₈ x 57
2	60.3	500	83.0	125.0	44.0	2- ³ / ₈ x 57
2½	73.0	500	96.0	143.0	45.0	2- ³ / ₈ x 57
3 O.D.	76.1	500	100.0	145.0	45.0	2- ³ / ₈ x 57
3	88.9	500	115.0	160.0	45.0	2-½ x 70
4 O.D.	108.0	500	138.0	190.0	50.0	2-½ x 70
4	114.3	500	145.0	198.0	50.0	2-½ x 70
5 O.D.	133.0	300	162.0	225.0	51.0	2- ⁵ / ₈ x 85
5½ O.D.	139.7	500	169.0	230.0	52.0	2- ⁵ / ₈ x 85
5	141.3	500	170.0	232.0	51.0	2- ⁵ / ₈ x 85
6 O.D.	159.0	300	190.0	256.0	52.0	2- ⁵ / ₈ x 85
6½ O.D.	165.1	500	196.0	260.0	52.0	2- ⁵ / ₈ x 85
6	168.3	500	200.0	265.0	52.0	2- ⁵ / ₈ x 85
8	216.3	300	254.0	320.0	59.0	2- ⁵ / ₈ x 85
8	219.1	500	258.0	342.0	60.0	2-¾ x 115
10	267.4	300	308.5	403.0	64.0	2-¾ x 115
10	273.0	500	337.0	406.0	65.0	2- ⁷ / ₈ x 140
12	318.5	300	363.0	460.0	63.0	2- ⁷ / ₈ x 140
12	323.9	500	378.0	465.0	65.0	2- ⁷ / ₈ x 140
14	355.6	300	402.0	493.0	72.0	3- ⁷ / ₈ x 140
14	377.0	225	428.0	520.0	72.0	3- ⁷ / ₈ x 140
16	406.4	300	458.0	547.0	72.0	3- ⁷ / ₈ x 140
16	426.0	225	476.0	566.0	73.0	3- ⁷ / ₈ x 140
18	457.2	300	505.0	598.0	78.0	3- ⁷ / ₈ x 140
20	508.0	300	550.0	648.0	78.0	3- ⁷ / ₈ x 140
24	609.6	300	662.0	774.0	78.0	4-1 x 140



Shield Light Flexible Coupling



SDG-21

SDG-21 is designed for a maximum working pressure of 300psi. The flexibility benefits of this coupling can be used in applications where high pressure is not required.

Nominal Size		Pipe O.D.	Maximum Working Pressure	Dimensions			Bolt/Nut No. - Size
Inch	mm		Psi	X mm	Y mm	Z mm	mm
3	88.9		300	112.2	159.0	45.5	2-3/8 x 57
4	114.3		300	139.0	182.0	50.0	2-3/8 x 57
5 1/2 O.D.	139.7		300	168.0	228.0	51.0	2-5/8 x 85
6 1/2 O.D.	165.1		300	192.0	244.0	51.0	2-1/2 x 76
6	168.3		300	200.0	266.0	52.0	2-5/8 x 85
10	273.0		300	320.0	398.0	64.0	2-3/4 x 115

* SHIELD reserves the right to change the contents without notice.
* Refer to UL/FM certificates for more information.

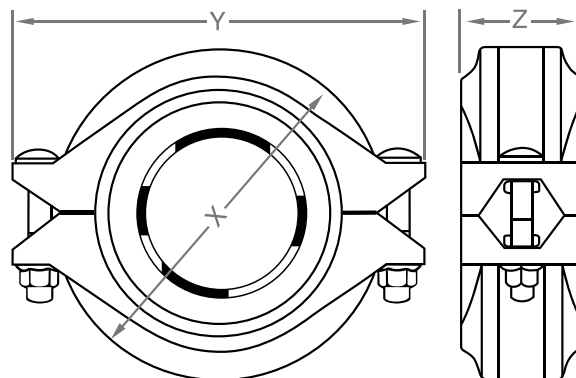


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Shield Reducing Coupling



SDG-30

Shield's SDG-30 Reducing Coupling allows in line reduction of the pipe diameter on a piping run. SDG-30 can also replace the need for two couplings as well as reducing fittings.

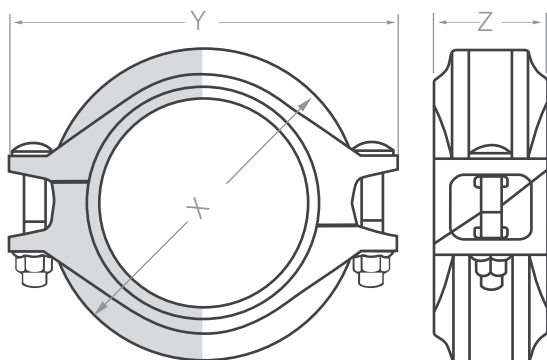
Nominal Size	Pipe O.D.	Maximum Working Pressure	Dimensions			Bolt/Nut No. - Size
Inch	mm	Psi	X mm	Y mm	Z mm	mm
2 x 1½	60.3 x 48.3	360	86.0	125.0	44.0	2-¾ x 57
2½ x 1	73.0 x 33.7	300	100.0	138.0	45.0	2-¾ x 57
2½ x 2	73.0 x 60.3	360	100.0	138.0	45.0	2-¾ x 57
3 O.D. x 1	76.1 x 33.7	300	102.0	140.0	45.0	2-¾ x 57
3 O.D. x 1½	76.1 x 48.3	300	102.0	140.0	45.0	2-¾ x 57
3 O.D. x 2	76.1 x 60.3	300	102.0	144.0	45.0	2-¾ x 57
3 O.D. x 2½	76.1 x 73.0	300	102.5	145.0	45.0	2-¾ x 57
3 x 1	88.9 x 33.7	300	115.0	168.0	46.0	2-½ x 70
3 x 2	88.9 x 60.3	360	115.0	168.0	46.0	2-½ x 70
3 x 2½	88.9 x 73.0	360	115.0	168.0	46.0	2-½ x 70
3 x 3 O.D.	88.9 x 76.1	300	115.0	172.0	46.0	2-½ x 70
4 x 1	114.3 x 33.7	300	144.0	198.0	50.0	2-½ x 70
4 x 2	114.3 x 60.3	360	144.0	198.0	50.0	2-½ x 70
4 x 2½	114.3 x 73.0	360	144.0	198.0	50.0	2-½ x 70
4 x 3 O.D.	114.3 x 76.1	360	144.0	202.0	50.0	2-½ x 70
4 x 3	114.3 x 88.9	300	148.0	198.0	50.0	2-½ x 70
6½ O.D. x 3	165.1 x 88.9	300	200.0	260.0	51.0	2-¾ x 115
6½ O.D. x 4	165.1 x 114.3	360	197.0	260.0	51.0	2-¾ x 85
6 x 3	168.3 x 88.9	300	200.0	268.0	51.0	2-¾ x 85
6 x 4	168.3 x 114.3	360	202.5	268.0	52.5	2-¾ x 85
6 x 6½ O.D.	168.3 x 165.1	300	204.0	268.0	52.5	2-¾ x 85
8 x 6½ O.D.	219.1 x 165.1	300	257.0	335.0	60.0	2-¾ x 115
8 x 6	219.1 x 168.3	360	260.0	338.0	60.0	2-¾ x 115

Shield Angle Pad Coupling

SDG-24

Nominal Size	Pipe O.D.	Maximum Working Pressure	Dimensions			Bolt/Nut No. - Size
Inch	mm	Psi	X mm	Y mm	Z mm	mm
1¼	42.4	500	64.0	99.0	46.5	2-¾ x 55
1½	48.3	500	70.0	105.0	46.5	2-¾ x 55
2	60.3	500	85.0	121.0	46.5	2-¾ x 55
2½	73.0	300	99.0	134.0	47.5	2-¾ x 63
3 O.D.	76.1	500	102.0	137.0	47.5	2-¾ x 63
3	88.9	500	115.0	150.0	47.5	2-¾ x 60
4	114.3	500	142.0	180.0	50.0	2-¾ x 65
5½ O.D.	139.7	300	171.0	214.0	52.5	2-½ x 75
6½ O.D.	165.1	300	198.0	242.0	52.5	2-½ x 75
6	168.3	300	201.0	245.0	52.5	2-½ x 75
8	219.1	300	258.0	331.0	63.5	2-¾ x 110
10	273.0	300	321.0	406.0	64.5	2-¾ x 140

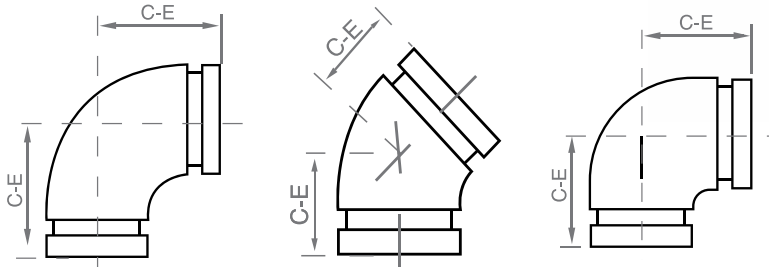
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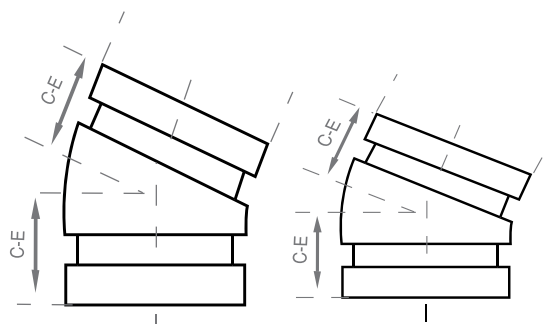
Shield 90° & 45° Elbows



90° SDG-100, 45° SDG-200, 90° SDG-105

Nominal Size	Pipe O.D.	SDG-100		SDG-200		SDG-105	
		90° Elbow Dimensions		45° Elbow Dimensions		90° Elbow Dimensions	
		Maximum Working Pressure	C-E	Maximum Working Pressure	C-E	Maximum Working Pressure	C-E
Inch	mm	PSI	mm	PSI	mm	PSI	mm
1	33.7	500	57.0	500	44.5	-	-
1¼	42.4	500	70.0	500	44.5	-	-
1½	48.3	500	70.0	500	44.5	-	-
2	60.3	500	82.5	500	51.0	300	70.0
2½	73.0	500	95.0	500	57.0	300	76.0
3 O.D.	76.1	500	95.0	500	57.0	300	76.0
3	88.9	500	108.0	500	63.5	300	85.5
4 O.D.	108.0	-	-	-	-	500	101.0
4	114.3	500	127.0	500	76.0	365	101.0
5 O.D.	133.0	500	122.0	500	76.0	-	-
5½ O.D.	139.7	500	140.0	500	82.5	-	-
5	141.3	500	140.0	500	82.5	300	124.0
6½ O.D.	165.1	500	165.0	500	82.5	300	140.0
6	168.3	500	165.0	500	89.0	365	140.0
8 O.D.	216.3	-	-	-	-	300	140.0
8	219.1	500	197.0	500	89.0	300	175.0
10	267.4	300	229.0	500	89.0	-	-
10	273.0	500	229.0	500	108.0	-	-
12	318.5	300	254.0	500	108.0	-	-
12	323.9	500	254.0	300	120.5	-	-
14	355.6	300	280.0	500	120.5	-	-
14	377.0	300	279.0	300	133.0	-	-
16	406.4	300	305.0	500	133.0	-	-
16	426.0	300	305.0	300	122.0	-	-
18	457.2	300	394.0	300	152.0	-	-
18	480.0	300	335.0	300	184.0	-	-
20	508.0	300	438.0	300	203.0		
24	609.6	300	508.0	300	229.0		

Shield 22.5° & 11.25° Elbows



22.5° SDG-225 & 11.25° SDG-112

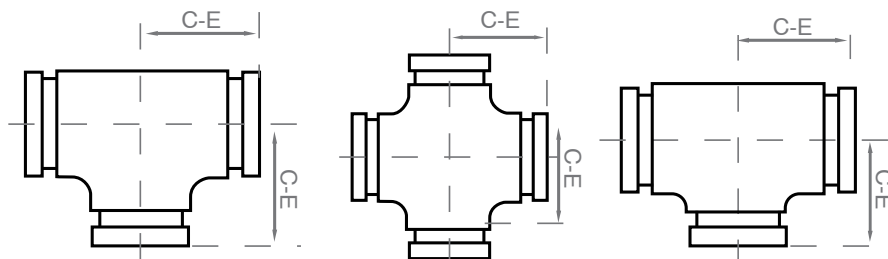
Nominal Size	Pipe O.D.	Maximum Working Pressure	22.5° Elbow Dimensions	11.25° Elbow Dimensions
Inch	mm	Psi	C-E mm	C-E mm
1¼	42.4	500	45.0	35.0
1½	48.3	500	45.0	35.0
2	60.3	500	48.0	35.0
2½	73.0	500	51.0	38.0
3 O.D.	76.1	500	51.0	38.0
3	88.9	500	57.0	38.0
4	114.3	500	73.0	44.0
5½ O.D.	139.7	500	73.0	51.0
6 O.D.	159.0	500	79.0	51.0
6½ O.D.	165.1	500	79.0	51.0
6	168.3	500	79.0	51.0
8	219.1	500	98.0	51.0

Factory Mutual System



* Refer to UL/FM certificates for more information.
* SHIELD reserves the right to change the contents without notice.

Shield Tees



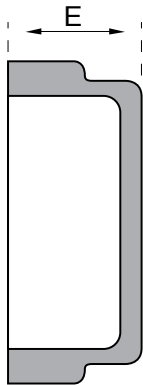
SDG-12 Tee, SDG-13 Cross Tee, SDG-102 Tee

Nominal Size	Pipe O.D.	Maximum Working Pressure	SDG-12 Tee Dimensions	SDG-13 Cross Tee Dimensions	SDG-102 Tee (Short) Dimensions	
			C-E	C-E	Maximum Working Pressure	C-E
Inch	mm	PSI	mm	mm	Psi	mm
1	33.4	500	57.0	-	-	-
1¼	42.4	500	70.0	70.0	-	-
1½	48.3	500	70.0	70.0	-	-
2	60.3	500	82.5	70.0	300	70.0
2½	73.0	500	95.0	76.0	300	76.0
3 O.D.	76.1	500	95.0	76.0	300	76.0
3	88.9	500	108.0	85.5	300	85.5
4 O.D.	108.0	500	127.0	101.0	-	101.0
4	114.3	500	122.0	101.0	300	101.0
5 O.D.	133.0	500	140.0	-	-	-
5½ O.D.	139.7	500	140.0	124.0	300	124.0
5	141.3	500	165.0	124.0	300	-
6 O.D.	159.0	500	165.0	140.0	-	140.0
6½ O.D.	165.1	500	197.0	140.0	300	140.0
6	168.3	500	229.0	140.0	300	140.0
8	216.3	-	229.0	-	300	175.0
8	219.1	500	254.0	175.0	300	175.0
10	267.4	500	254.0	-	-	-
10	273.0	500	280.0	229.0	-	-
12	318.5	500	279.0	-	-	-
12	323.9	500	305.0	254.0	-	-
14	355.6	300	285.0	279.0	-	-
14	377.0	300	342.0	279.0	-	-
16	406.4	300	335.0	305.0	-	-
16	426.0	300	381.0	-	-	-
18	457.2	300	432.0	343.0	-	-
18	480	300	342.0	-	-	-
20	508.0	300	381.0	381.0	-	-
24	609.6	300	432.0	432.0	-	-

• Reducing cross (grooved, threaded) are also available contact SHIELD for details.

Shield Cap

SDG-14



Nominal Size	Pipe O.D.	Maximum Working Pressure	Cap Dimension
Inch	mm	Psi	E mm
1	33.7	500	22.1
1¼	42.4	500	23.5
1½	48.3	500	23.5
2	60.3	500	23.5
2½	73.0	500	23.5
3 O.D.	76.1	500	24.5
3	88.9	500	24.0
4	108.0	500	27.0
4	114.3	500	27.0
5	133.0	500	25.5
5½ O.D.	139.7	500	25.5
5	141.3	500	25.5
6	159.0	500	27.0
6½ O.D.	165.1	500	27.0
6	168.3	500	24.5
6	216.3	500	30.0
8	219.1	500	30.0
10	273.0	500	32.0
12	323.9	500	32.0
14	355.6	300	165.0
16	406.4	300	178.0
18	457.2	300	203.0
20	508.0	300	229.0
24	609.6	300	267.0

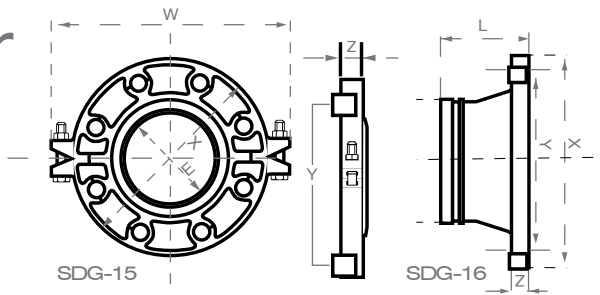
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* Refer to UL/FM certificates for more information.



Shield Grooved & Adaptor Flanges

Grooved Flange SDG-15 & Adaptor Flange SDG-16



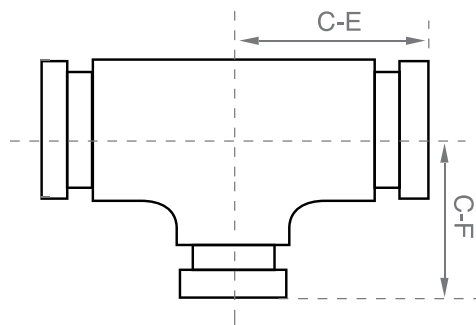
PN10/PN16	Nominal Size	Pipe O.D.	Max. Working Pressure	Grooved Flange Dimensions							Adaptor Flange Dimensions				
				W	Z	X	Y	E	Bolt/Nut Size		L	X	Y	Z	Bolt/Nut Size
	Inch	mm	Psi	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
	1	33.7	300	-	-	-	-	-	-	-	60.5	115.0	85.0	16.0	4-½
	1¼	42.4	300	-	-	-	-	-	-	-	60.5	140.0	100.0	16.0	4-⅝
	1½	48.3	300	195.0	18.5	150.0	110.0	45.4	2-¾ x 50	4-⅝	60.5	150.0	110.0	16.0	4-⅝
	2	60.3	300	220.0	18.5	165.0	125.0	57.5	2-¾ x 50	4-⅝	65.0	165.0	125.0	16.0	4-⅝
	3 O.D.	76.1	300	235.0	18.5	185.0	145.0	72.7	2-¾ x 50	4-⅝	65.0	185.0	145.0	16.0	4-⅝
	3	88.9	300	255.0	18.5	195.0	160.0	85.5	2-¾ x 50	8-⅝	65.0	200.0	160.0	16.0	8-⅝
	4	108.0	300	279.0	18.5	220.0	180.0	104.5	2-¾ x 50	8-⅝	70.0	220.0	180.0	16.0	8-⅝
	4	114.3	300	279.0	18.5	224.0	180.0	110.5	2-¾ x 50	8-⅝	70.0	220.0	180.0	16.0	8-⅝
	5	133.0	300	312.0	21.5	250.0	210.0	129.2	2-½ x 65	8-⅝	70.0	250.0	210.0	18.0	8-⅝
	5½ O.D.	139.7	300	320.0	23.0	250.0	210.0	135.5	2-½ x 65	8-⅝	70.0	250.0	210.0	18.0	8-⅝
	6	159.0	300	346.0	21.5	280.0	240.0	154.8	2-½ x 65	8-¾	70.0	285.0	240.0	18.0	8-¾
	6½ O.D.	165.1	300	346.0	21.5	280.0	240.0	160.8	2-½ x 65	8-¾	70.0	285.0	240.0	18.0	8-¾
	6	168.3	300	346.0	24.0	280.0	240.0	164.3	2-½ x 65	8-¾	70.0	285.0	240.0	18.0	8-¾
	8	219.1	300	414.3	30.0	340.0	295.0	214.9	2-¾ x 70	12-¾	80.0	340.0	295.0	19.0	12-¾
	10	273	300	480.0	25.5	405.0	355.0	268.9	2-¾ x 70	12-M24	85.0	405.0	355.0	21.0	12-M24
	12	323.9	300	530.5	25.5	460.0	410.0	318.9	2-¾ x 70	12-M24	90.0	460.0	410.0	24.0	12-M24
	14	355.6	300	580.0	30.0	520.0	470.0	350.6	-	16-M24	100.0	520.0	470.0	25.0	16-M24
	16	406.4	300	630.0	32.0	580.0	525.0	401.5	-	16-M27	110.0	580.0	525.0	27.0	16-M27
	18	457.2	300	693.0	36.0	640.0	585.0	452.2	-	20-M27	115.0	640.0	585.0	20.0	20-M27
	20	508.0	300	770.0	36.0	715.0	650.0	503.0	-	20-M30	-	-	-	-	-
	24	609.6	300	895.0	40.0	840.0	770.0	601.6	-	20-M33	-	-	-	-	-

ANSI 125/150	Nominal Size	Pipe O.D.	Max. Working Pressure	Grooved Flange Dimensions							Adaptor Flange Dimensions				
	Inch	mm	Psi	W mm	Z mm	X mm	Y mm	E mm	Bolt/Nut Size mm	L mm	X mm	Y mm	Z mm	Bolt/Nut Size mm	
	2	60.3	300	206.0	19.0	152.0	121.0	57.5	2-3⁄8 x 50	4-5⁄8	65.0	152.0	120.5	16.0	4-5⁄8
	2½	73.0	300	230.0	19.0	178.0	140.0	69.8	2-3⁄8 x 50	4-5⁄8	65.0	185.0	139.7	16.0	4-5⁄8
	3 O.D.	76.1	300	230.0	19.0	178.0	140.0	72.7	2-3⁄8 x 50	4-5⁄8	-	-	-	-	-
	3	88.9	300	246.0	19.0	191.0	152.0	85.5	2-3⁄8 x 50	4-5⁄8	65.0	200.0	152.4	16.0	8-5⁄8
	4	114.3	300	280.0	19.0	229.0	191.0	110.5	2-½ x 55	8-5⁄8	70.0	229.0	190.5	16.0	8-5⁄8
	5	141.3	250	320.0	22.0	254.0	216.0	137.4	2-½ x 55	8-¾	-	-	-	-	-
	6	168.3	300	346.0	24.0	280.0	241.3	164.3	2-½ x 55	8-¾	70.0	282.0	241.3	18.0	8-¾
	8	219.1	250	414.3	30.0	341.4	298.5	214.9	2-3⁄8 x 70	8-¾	75.0	340.0	298.5	19.0	8-¾
	10	273.0	250	481.2	30.3	405.6	362.0	268.9	2-3⁄8 x 70	12-7⁄8	85.0	406.0	362	21.0	12-7⁄8
	12	323.9	250	553.3	30.4	482.6	431.8	318.9	2-3⁄8 x 70	12-7⁄8	-	-	-	-	-
	14	355.6	300	590.0	37.0	535.0	476.3	350.6	-	12-1	127.0	535.0	476.3	37.0	12-1
	16	406.4	300	650.0	37.0	595.0	539.8	401.5	-	16-1	127.0	595.0	539.8	37.0	16-1
	18	457.2	300	690.0	40.0	635.0	577.8	452.2	-	16-1⅝	140.0	642.0	577.8	40.0	16-1⅝
20	508.0	300	765.0	43.0	700.0	635.0	503.0	-	20-1⅝	152.0	700.0	635.0	43.0	20-1⅝	
24	609.6	300	875.0	49.0	815.0	749.3	601.6	-	20-1¾	152.0	815.0	749.3	49.0	20-1¾	

Class 300	Nominal Size	Pipe O.D.	Grooved Flange Dimensions					
	Inch	mm	O.D. of Flange X mm	I.D. E mm	Thickness Z mm	PCD Y mm	O.D. of Bolt W mm	Bolt Size Inch
	2 1/2	73.0	190	69.60	24.6	149.2	244.0	8-3/4
	3	88.9	210	84.60	28.0	168.3	274.0	8-3/4
	4	114.3	255	110.20	31.5	200.0	310.0	8-3/4
	6	168.3	320	164.20	35.5	269.9	388.0	12-3/4
	8	219.1	380	214.93	41.0	330.2	470.4	12-7/8

* SHIELD reserves the right to change the contents without notice.
* Refer to UL/FM certificates for more information.

Shield Grooved Reducing Tee



SDG-53

Nominal Size	Pipe O.D.	Maximum Working Pressure	C-E	C-E
Inch	mm	Psi	mm	mm
2 x 1	60.3 x 33.7	500	70.0	70.0
2 x 1½	60.3 x 48.3	500	70.0	70.0
2½ x 1½	73.0 x 48.3	500	76.0	76.0
2½ x 2	73.0 x 60.3	500	69.0	76.0
3 O.D. x 1¼	76.1 x 42.4	500	76.0	76.0
3 O.D. x 1½	76.1 x 48.3	500	76.0	76.0
3 O.D. x 2	76.1 x 60.3	500	69.0	76.0
3 x 1	88.9 x 33.7	500	108.0	108.0
3 x 1¼	88.9 x 42.4	500	85.5	85.5
3 x 1½	88.9 x 48.3	500	85.5	85.5
3 x 2	88.9 x 60.3	500	85.5	85.5
3 x 2½	88.9 x 73.0	500	85.5	85.5
3 x 2½	88.9 x 76.1	500	85.5	85.5
4 O.D. x 2	108.0 x 60.3	500	101.0	101.0
4 O.D. x 3	108.0 x 88.9	500	101.0	101.0
4 x 1	114.3 x 33.7	500	101.0	101.0
4 x 1½	114.3 x 48.3	500	101.0	101.0
4 x 2	114.3 x 60.3	500	101.0	101.0
4 x 2½	114.3 x 73.0	500	101.0	101.0
4 x 2½	114.3 x 76.1	500	101.0	101.0
4 x 3	114.3 x 88.9	500	101.0	101.0
5 x 2	133.0 x 60.3	500	124.0	124.0
5 x 2½	133.0 x 76.1	500	124.0	124.0
5 x 4	133.0 x 108.0	500	124.0	124.0
5 x 4	133.0 x 114.3	500	124.0	124.0
5½ O.D. x 1½	139.7 x 48.3	500	124.0	124.0
5½ O.D. x 2	139.7 x 60.3	500	124.0	124.0
5½ O.D. x 2½	139.7 x 76.1	500	124.0	124.0
5½ O.D. x 3	139.7 x 88.9	500	124.0	124.0
5½ O.D. x 4	139.7 x 114.3	500	124.0	124.0
5 x 2	141.3 x 60.3	500	124.0	124.0
5 x 3	141.3 x 88.9	500	124.0	124.0
5 x 4	141.3 x 114.3	500	124.0	124.0
6 x 2	159.0 x 60.3	500	140.0	140.0
6 x 2½	159.0 x 76.1	500	140.0	140.0
6 x 3	159.0 x 88.9	500	140.0	140.0
6 x 4	159.0 x 108.0	500	140.0	140.0
6 x 4	159.0 x 114.3	500	140.0	140.0
6 x 5	159.0 x 133.0	500	140.0	140.0
6½ O.D. x 2	165.1 x 60.3	300	140.0	140.0
6½ O.D. x 2½	165.1 x 76.1	300	140.0	140.0
6½ O.D. x 3	165.1 x 88.9	300	140.0	140.0
6½ O.D. x 4	165.1 x 114.3	300	140.0	140.0
6½ O.D. x 5	165.1 x 139.7	300	140.0	140.0
6½ O.D. x 5	165.1 x 133.0	300	140.0	140.0
6 x 2	168.3 x 60.3	500	140.0	140.0

* Refer to UL/FM certificates for more information.
 * SHIELD reserves the right to change the contents without notice.



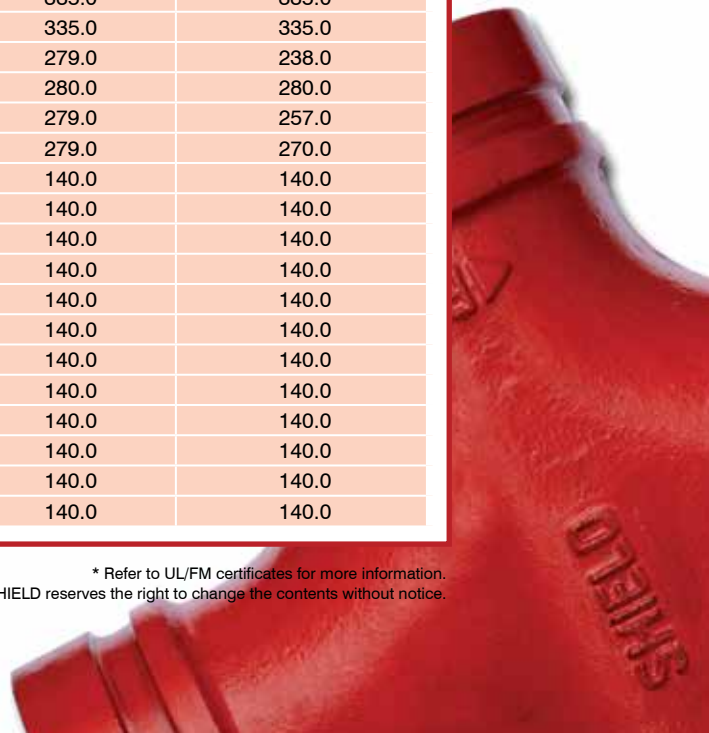
Shield Grooved Reducing Tee_(Continued)

SDG-53

Nominal Size	Pipe O.D.	Maximum Working Pressure	C-E	C-E
Inch	mm	Psi	mm	mm
6 x 2½	168.3 x 73.0	500	140.0	140.0
6 x 3	168.3 x 76.1	500	140.0	140.0
6 x 4	168.3 x 88.9	500	140.0	140.0
6 x 4	168.3 x 114.3	500	140.0	140.0
6 x 5	168.3 x 139.7	300	140.0	140.0
6 x 2	168.3 x 141.3	300	140.0	140.0
6 x 2½	216.3 x 114.3	300	175.0	175.0
6 x 3	216.3 x 165.1	300	175.0	175.0
6 x 4	219.1 x 60.3	500	175.0	175.0
6 x 5	219.1 x 76.1	300	175.0	175.0
6 x 5	219.1 x 88.9	500	175.0	175.0
6 x 2	219.1 x 108.0	500	175.0	175.0
6 x 2½	219.1 x 114.3	500	175.0	175.0
6 x 2½	219.1 x 133.0	300	175.0	175.0
6 x 3	219.1 x 139.7	300	175.0	175.0
6 x 4	219.1 x 159.0	300	175.0	175.0
6 x 5	219.1 x 165.1	300	175.0	175.0
6 x 5	219.1 x 168.3	500	175.0	175.0
8 x 4	273.0 x 159.0	500	229.0	229.0
8 x 6	273.0 x 165.1	300	229.0	229.0
8 x 2	273.0 x 168.3	300	229.0	229.0
8 x 2½	273.0 x 219.1	300	229.0	229.0
8 x 3	323.9 x 73.0	300	254.0	254.0
8 x 4	323.9 x 88.9	300	254.0	254.0
8 x 4	323.9 x 165.1	300	254.0	254.0
8 x 5	323.9 x 168.3	300	254.0	254.0
8 x 5	323.9 x 219.1	300	254.0	254.0
8 x 6	323.9 x 273.0	300	254.0	254.0
8 x 6	480.0 x 323.9	300	335.0	335.0
8 x 6	480.0 x 377.0	300	335.0	335.0
10 x 6	355.6 x 168.3	300	279.0	238.0
10 x 6	355.6 x 219.1	300	280.0	280.0
10 x 6	355.6 x 273.0	300	279.0	257.0
10 x 8	355.6 x 323.9	300	279.0	270.0
12 x 2½	159.0 x 76.1	500	140.0	140.0
12 x 3	159.0 x 88.9	500	140.0	140.0
12 x 6	159.0 x 108.0	500	140.0	140.0
12 x 6	159.0 x 114.3	500	140.0	140.0
12 x 8	159.0 x 133.0	500	140.0	140.0
12 x 10	165.1 x 60.3	300	140.0	140.0
18 x 12	165.1 x 76.1	300	140.0	140.0
18 x 14	165.1 x 88.9	300	140.0	140.0
14 x 6	165.1 x 114.3	300	140.0	140.0
14 x 8	165.1 x 139.7	300	140.0	140.0
14 x 10	165.1 x 133.0	300	140.0	140.0
14 x 12	168.3 x 60.3	500	140.0	140.0

* Refer to UL/FM certificates for more information.

* SHIELD reserves the right to change the contents without notice.



Shield Grooved Reducing Tee_(Continued)

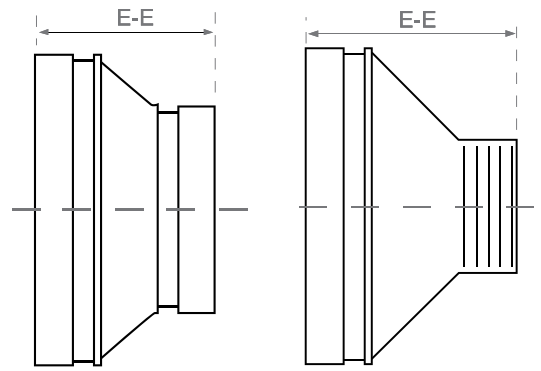


SDG-53

Nominal Size	Pipe O.D.	Maximum Working Pressure	C-E	C-E
Inch	mm	Psi	mm	mm
14 x 5	377.0 x 133.0	300	240.0	265.0
14 x 6	377.0 x 159.0	300	240.0	265.0
14 x 8	377.0 x 219.1	300	240.0	265.0
14 x 10	377.0 x 273.0	300	240.0	265.0
14 x 12	377.0 x 323.9	300	240.0	265.0
16 x 6	406.4 x 168.3	300	305.0	264.0
16 x 8	406.4 x 219.1	300	305.0	273.0
16 x 10	406.4 x 273.0	300	305.0	283.0
16 x 12	406.4 x 323.9	300	305.0	295.0
16 x 14	406.4 x 355.6	300	305.0	305.0
16 x 5	426.0 x 133.0	300	260.0	285.0
16 x 6	426.0 x 159.0	300	260.0	285.0
16 x 8	426.0 x 219.1	300	260.0	285.0
16 x 10	426.0 x 273.0	300	260.0	285.0
16 x 12	426.0 x 323.9	300	260.0	285.0
18 x 6	457.2 x 168.3	300	343.0	298.0
18 x 8	457.2 x 219.1	300	343.0	298.0
18 x 10	457.2 x 273.0	300	343.0	308.0
18 x 12	457.2 x 323.9	300	343.0	321.0
18 x 14	457.2 x 355.6	300	343.0	330.0
18 x 16	457.2 x 406.4	300	343.0	330.0
20 x 6	508.0 x 168.3	300	381.0	324.0
20 x 8	508.0 x 219.1	300	381.0	324.0
20 x 10	508.0 x 273.0	300	381.0	333.0
20 x 12	508.0 x 323.9	300	381.0	346.0
20 x 14	508.0 x 355.6	300	381.0	356.0
20 x 16	508.0 x 406.4	300	381.0	356.0
20 x 18	508.0 x 457.2	300	381.0	368.0
24 x 6	609.6 x 168.3	300	432.0	384.0
24 x 8	609.6 x 219.1	300	432.0	384.0
24 x 10	609.6 x 273.0	300	432.0	384.0
24 x 12	609.6 x 323.9	300	432.0	397.0
24 x 14	609.6 x 355.6	300	432.0	406.0
24 x 16	609.6 x 406.4	300	432.0	406.0
24 x 18	609.6 x 457.2	300	432.0	419.0
24 x 20	609.6 x 508.0	300	432.0	432.0

* Refer to UL/FM certificates for more information.
 * SHIELD reserves the right to change the contents without notice.

Shield Concentric Reducer



Grooved SDG-35 & Threaded SDG-37

Nominal Size	Pipe O.D.	Maximum Working Pressure	SDG-35 Grooved Dimensions	SDG-37 Threaded Dimensions
Inch	mm	Psi	E-E mm	E-E mm
1¼ x 1	42.4 x 33.7	500	64.0	64.0
1½ x 1	48.3 x 33.7	500	64.0	64.0
1½ x 1¼	48.3 x 42.4	500	64.0	-
2 x ½	60.3 x 21.3	500	-	64.0
2 x ¾	60.3 x 26.9	500	-	64.0
2 x 1	60.3 x 33.7	500	64.0	64.0
2 x 1¼	60.3 x 42.4	500	64.0	64.0
2 x 1½	60.3 x 48.3	500	64.0	64.0
2½ x 1	73.0 x 33.7	500	64.0	64.0
2½ x 1¼	73.0 x 42.4	500	64.0	64.0
2½ x 1½	73.0 x 48.3	500	64.0	64.0
2½ x 2	73.0 x 60.3	500	64.0	64.0
2½ x ½	76.1 x 21.3	500	-	64.0
2½ x ¾	76.1 x 26.9	500	-	64.0
2½ x 1	76.1 x 33.7	500	64.0	64.0
2½ x 1¼	76.1 x 42.4	500	64.0	64.0
2½ x 1½	76.1 x 48.3	500	64.0	-
2½ x 2	76.1 x 60.3	500	64.0	64.0
3 x ½	88.9 x 21.3	500	-	64.0
3 x ¾	88.9 x 26.9	500	-	64.0
3 x 1	88.9 x 33.7	500	64.0	64.0
3 x 1¼	88.9 x 42.4	500	64.0	64.0
3 x 1½	88.9 x 48.3	500	64.0	64.0
3 x 2	88.9 x 60.3	500	64.0	64.0
3 x 2½	88.9 x 73.0	500	64.0	64.0
3 x 2½	88.9 x 76.1	500	64.0	64.0
4 x 1	108.0 x 33.7	500	-	76.0
4 x 1¼	108.0 x 42.4	500	-	76.0
4 x 1½	108.0 x 48.3	500	-	76.0
4 x 2	108.0 x 60.3	500	76.0	76.0
4 x 2½	108.0 x 73.0	500	76.0	76.0
4 x 2½	108.0 x 76.1	500	76.0	-
4 x 3	108.0 x 88.9	500	76.0	76.0
4 x ½	114.3 x 21.3	500	-	76.0
4 x ¾	114.3 x 26.9	500	-	76.0
4 x 1	114.3 x 33.7	500	-	76.0
4 x 1¼	114.3 x 42.4	500	76.0	76.0
4 x 1½	114.3 x 48.3	500	76.0	76.0
4 x 2	114.3 x 60.3	500	76.0	76.0
4 x 2½	114.3 x 73.0	500	76.0	76.0
4 x 2½	114.3 x 76.1	500	76.0	76.0
4 x 3	114.3 x 88.9	500	76.0	76.0
5 x 1½	133.0 x 48.3	500	-	89.0
5 x 2	133.0 x 60.3	500	-	89.0
5 x 2½	133.0 x 76.1	500	-	89.0
5 x 3	133.0 x 88.9	500	-	89.0
5 x 4	133.0 x 108.0	500	89.0	-

Shield Concentric Reducer (Continued)

Grooved SDG-35 & Threaded SDG-37

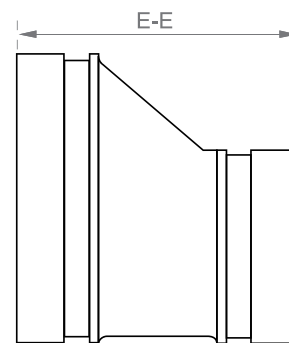
Nominal Size	Pipe O.D.	Maximum Working Pressure	SDG-35 Grooved Dimensions	SDG-37 Threaded Dimensions
Inch	mm	Psi	E-E mm	E-E mm
5 x 4	133.0 x 114.3	500	89.0	-
5 x 1	139.7 x 33.7	500	-	89.0
5 x 1¼	139.7 x 42.4	500	-	89.0
5 x 1½	139.7 x 48.3	500	-	89.0
5 x 2	139.7 x 60.3	500	89.0	89.0
5 x 2½	139.7 x 76.1	500	89.0	89.0
5 x 3	139.7 x 88.9	500	89.0	89.0
5 x 4	139.7 x 114.3	500	89.0	89.0
5 x 2½	141.3 x 73.0	500	89.0	-
5 x 3	141.3 x 88.9	500	89.0	-
5 x 4	141.3 x 114.3	500	89.0	89.0
6 x ¾	159.0 x 26.9	500	-	102.0
6 x 1	159.0 x 33.7	500	-	102.0
6 x 1¼	159.0 x 42.4	500	-	102.0
6 x 1½	159.0 x 48.3	500	-	102.0
6 x 2	159.0 x 60.3	500	102.0	102.0
159.0 x 2½	159.0 x 76.1	500	102.0	102.0
6 x 3	159.0 x 88.9	500	102.0	102.0
6 x 4	159.0 x 108	500	102.0	-
6 x 4	159.0 x 114.3	500	102.0	102.0
6 x 5	159.0 x 133.0	500	102.0	-
6 x ½	165.1 x 21.3	500	-	102.0
6 x ¾	165.1 x 26.9	500	-	102.0
6 x 1	165.1 x 33.7	500	-	102.0
6 x 1¼	165.1 x 42.4	500	-	102.0
6 x 1½	165.1 x 48.3	500	-	102.0
6 x 2	165.1 x 60.3	500	102.0	102.0
6 x 2½	165.1 x 76.1	500	102.0	102.0
6 x 3	165.1 x 88.9	500	102.0	102.0
6 x 4	165.1 x 108.0	500	102.0	-
6 x 4	165.1 x 114.3	500	102.0	102.0
6 x 5	165.1 x 139.7	500	102.0	-
6 x 5	165.1 x 141.3	500	102.0	-
6 x 1	168.3 x 33.7	500	-	102.0
6 x 2	168.3 x 60.3	500	102.0	102.0
6 x 2½	168.3 x 73.0	500	102.0	-
6 x 2½	168.3 x 76.1	500	102.0	-
6 x 3	168.3 x 88.9	500	102.0	-
6 x 4	168.3 x 114.3	500	102.0	-
6 x 5	168.3 x 139.7	500	102.0	-
6 x 5	168.3 x 141.3	500	102.0	-
8 x 4	216.3 x 114.3	500	127.0	-
8 x 6	216.3 x 165.1	500	127.0	-
8 x 1½	219.1 x 48.3	500	-	102.0
8 x 2	219.1 x 60.3	500	-	102.0
8 x 2½	219.1 x 73.0	500	127.0	-
8 x 2½	19.1 x 76.1	500	-	102.0
8 x 3	219.1 x 88.9	500	127.0	102.0

* Refer to UL/FM certificates for more information.

* SHIELD reserves the right to change the contents without notice.



Shield Concentric Reducer (Continued)

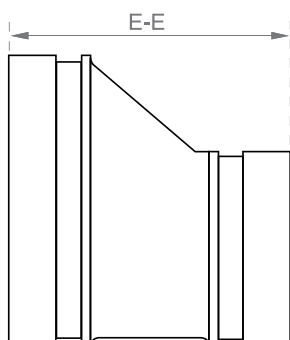


Grooved SDG-35 & Threaded SDG-37

Nominal Size	Pipe O.D.	Maximum Working Pressure	SDG-35 Grooved Dimensions	SDG-37 Threaded Dimensions
Inch	mm	Psi	E-E mm	E-E mm
8 x 4	219.1 x 108.0	500	127.0	-
8 x 4	219.1 x 114.3	500	127.0	102.0
8 x 5	219.1 x 139.7	500	127.0	-
8 x 5	219.1 x 141.3	500	127.0	-
8 x 6	219.1 x 159.0	500	127.0	-
8 x 6	219.1 x 165.1	500	127.0	-
8 x 6	219.1 x 168.3	500	127.0	-
10 x 6	273.0 x 159.0	500	152.0	-
10 x 6	273.0 x 165.1	500	152.0	-
10 x 6	273.0 x 168.3	500	152.0	-
10 x 8	273.0 x 219.1	500	152.0	-
12 x 8	323.9 x 219.1	500	178.0	-
12 x 10	323.9 x 273.0	500	178.0	-
14 x 5	377.0 x 133.0	300	127.0	-
14 x 6	377.0 x 159.0	300	127.0	-
14 x 6	355.6 x 168.3	300	330.0	-
14 x 8	355.6 x 219.1	300	203.0	-
14 x 10	355.6 x 273.0	300	203.0	-
14 x 12	355.6 x 323.9	300	203.0	-
16 x 8	406.4 x 219.1	300	229.0	-
16 x 10	406.4 x 273.0	300	229.0	-
16 x 12	406.4 x 323.9	300	229.0	-
16 x 14	406.4 x 355.6	300	229.0	-
18 x 6	457.2 x 168.3	300	381.0	-
18 x 10	457.2 x 273.0	300	381.0	-
18 x 12	457.2 x 323.9	300	241.0	-
18 x 14	457.2 x 355.6	300	241.0	-
18 x 16	457.2 x 406.4	300	241.0	-
20 x 8	530.0 x 219.1	300	135.0	-
20 x 12	508.0 x 323.9	300	254.0	-
20 x 14	508.0 x 355.6	300	254.0	-
20 x 16	508.0 x 406.4	300	254.0	-
20 x 18	508.0 x 457.2	300	254.0	-
24 x 16	609.6 x 406.4	300	305.0	-
24 x 18	609.6 x 457.2	300	305.0	-
24 x 20	609.6 x 508.0	300	305.0	-

Shield Grooved Eccentric Reducer

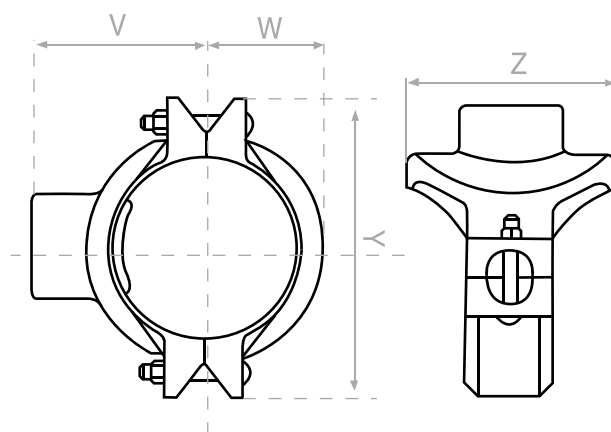
Grooved SDG-33



Nominal Size Grooved x Grooved	Pipe O.D.	Maximum Working Pressure	SDG-33 Grooved Dimensions
Inch	mm	Psi	E-E mm
1½ x 1¼	48.3 x 42.4	500	89.0
2 x 1½	60.3 x 48.3	500	89.0
3 x 2	88.9 x 60.3	500	89.0
4 x 2½	108.0 x 76.1	500	102.0
4 x 3	108.0 x 88.9	500	102.0
4 x 2	114.3 x 60.3	500	102.0
4 x 2½	114.3 x 76.1	300	102.0
4 x 3	114.3 x 88.9	500	102.0
5 x 4	139.7 x 114.3	300	127.0
6 x 4	159.0 x 108.0	300	140.0
6 x 4	159.0 x 114.3	300	140.0
6 x 3	165.1 x 88.9	300	140.0
6 x 4	165.1 x 114.3	300	140.0
6 x 5	165.1 x 139.7	300	140.0
6 x 3	168.3 x 88.9	300	140.0
6 x 4	168.3 x 114.3	300	140.0
6 x 5	168.3 x 139.7	300	140.0
8 x 4	219.1 x 114.3	300	215.0
8 x 6	219.1 x 165.1	300	215.0
8 x 6	219.1 x 168.3	300	215.0
10 x 8	273.0 x 219.1	300	215.0
14 x 6	355.6 x 168.3	300	330.0
14 x 8	355.6 x 219.1	300	330.0
14 x 10	355.6 x 273.0	300	330.0
14 x 12	355.6 x 323.9	300	330.0
16 x 8	406.4 x 219.1	300	356.0
16 x 10	406.4 x 273.0	300	356.0
16 x 12	406.4 x 323.9	300	356.0
16 x 14	406.4 x 355.6	300	356.0
18 x 6	457.2 x 168.3	300	381.0
18 x 10	457.2 x 273.0	300	381.0
18 x 12	457.2 x 323.9	300	381.0
18 x 14	457.2 x 355.6	300	381.0
18 x 16	457.2 x 406.4	300	381.0
20 x 12	508.0 x 323.9	300	508.0
20 x 14	508.0 x 355.6	300	508.0
20 x 16	508.0 x 406.4	300	508.0
20 x 18	508.0 x 457.2	300	508.0
24 x 16	609.6 x 406.4	300	508.0
24 x 18	609.6 x 457.2	300	508.0
24 x 20	609.6 x 508.0	300	508.0

Shield Threaded Outlet Mechanical Tee

SDG-42



Nominal Size	Pipe O.D.	Maximum Working Pressure	Hole Dia	Dimensions				Bolt Size
Run x Branch Inch	mm	Psi	mm +1.6	Y mm	Z mm	V mm	W mm	in x mm
1 x 3/8	33.7 x 17.2	300	23.5	86	46	26	24.5	M8 x 30
1 x 1/2	33.7 x 21.3	300	23.5	86	46	26	24.5	M8 x 30
1 x 3/4	33.7 x 26.9	300	23.5	86	52	41	24.5	M8 x 30
1 x 1	33.7 x 33.7	300	23.5	86	57	45	24.5	M8 x 30
1 1/4 x 3/8	42.4 x 17.2	300	30	95.5	53	32	29	3/8 x 35
1 1/4 x 1/2	42.4 x 21.3	300	30	95.5	57	32	29	3/8 x 35
1 1/4 x 3/4	42.4 x 26.9	300	30	95.5	57	44	29	3/8 x 35
1 1/4 x 1	42.4 x 33.7	300	30	95.5	57	53	29	3/8 x 35
1 1/2 x 3/8	48.3 x 17.2	300	30	101.5	53	34	32.5	3/8 x 35
1 1/2 x 1/2	48.3 x 21.3	300	30	101.5	57	35.5	32.5	3/8 x 35
1 1/2 x 3/4	48.3 x 26.9	300	30	101.5	57	47.5	32.5	3/8 x 35
1 1/2 x 1	48.3 x 33.7	300	30	101.5	57	56	32.5	3/8 x 35
2 x 3/8	60.3 x 17.2	300	38	116	68	44	39	3/8 x 55
2 x 1/2	60.3 x 21.3	300	38	116	68	60	39	3/8 x 55
2 x 3/4	60.3 x 26.9	300	38	116	68	60	39	3/8 x 55
2 x 1	60.3 x 33.7	300	38	116	68	60	39	3/8 x 55
2 x 1 1/4	60.3 x 42.4	300	45	116	76	65	39	3/8 x 55
2 x 1 1/2	60.3 x 48.3	300	45	116	76	65	39	3/8 x 55
2 1/2 x 1/2	73.0 x 21.3	225	38	137	71	68	49	1/2 x 70
2 1/2 x 3/4	73.0 x 26.9	300	38	137	71	68	49	1/2 x 70
2 1/2 x 1	73.0 x 33.7	300	38	137	71	70	49	1/2 x 70
2 1/2 x 1 1/4	73.0 x 42.4	300	51	137	84.5	73	49	1/2 x 70
2 1/2 x 1 1/2	73.0 x 48.3	300	51	137	84.5	73	49	1/2 x 70
3 O.D. x 1/2	76.1 x 21.3	300	38	137	71	61.5	49.5	1/2 x 70
3 O.D. x 3/4	76.1 x 26.9	300	38	137	71	68	49.5	1/2 x 70
3 O.D. x 1	76.1 x 33.7	300	38	137	71	75	49.5	1/2 x 70
3 O.D. x 1 1/4	76.1 x 42.4	300	51	137	84.5	75	49.5	1/2 x 70
3 O.D. x 1 1/2	76.1 x 48.3	300	51	137	84.5	75	49.5	1/2 x 70
3 x 1/2	88.9 x 21.3	300	38	152	72.5	71.5	56.5	1/2 x 75
3 x 3/4	88.9 x 26.9	300	38	152	72.5	71.5	56.5	1/2 x 75
3 x 1	88.9 x 33.7	300	38	152	72.5	80	56.5	1/2 x 75
3 x 1 1/4	88.9 x 42.4	300	51	152	85.5	80	56.5	1/2 x 75
3 x 1 1/2	88.9 x 48.3	300	51	152	85.5	80	56.5	1/2 x 75
3 x 2	88.9 x 60.3	300	64	152	98	80	56.5	1/2 x 75
4 1/2 O.D. x 1/2	108.1 x 21.3	300	38	172	78.5	87	64.5	1/2 x 75
4 1/2 O.D. x 3/4	108.1 x 26.9	300	38	172	78.5	87	64.5	1/2 x 75
4 1/2 O.D. x 1	108.1 x 33.7	300	38	172	78.5	87	64.5	1/2 x 75
4 1/2 O.D. x 1 1/4	108.1 x 42.4	300	51	172	89	87	64.5	1/2 x 75
4 1/2 O.D. x 1 1/2	108.0 x 48.3	300	51	172	89	87	64.5	1/2 x 75
4 1/2 O.D. x 2	108.0 x 60.3	300	64	172	106.5	92	64.5	1/2 x 75
4 1/2 O.D. x 3 O.D.	108.0 x 76.1	300	70	172	106.5	100	64.5	1/2 x 75
4 x 1/2	114.3 x 21.3	300	38	188	78.5	90	70	1/2 x 75
4 x 3/4	114.3 x 26.9	300	38	188	78.5	90	70	1/2 x 75
4 x 1	114.3 x 33.7	300	38	188	78.5	93	70	1/2 x 75
4 x 1 1/4	114.3 x 42.4	300	51	188	89	95	70	1/2 x 75
4 x 1 1/2	114.3 x 48.3	300	51	188	89	97	70	1/2 x 75
4 x 2	114.3 x 60.3	300	64	188	104.5	100	70	1/2 x 75
4 x 2 1/2	114.3 x 73.0	300	70	188	104.5	102	70	1/2 x 75
4 x 3 O.D.	114.3 x 76.1	300	70	188	104.5	102	70	1/2 x 75
4 x 3	114.3 x 88.9	300	89	188	128	102	70	1/2 x 75
5 1/2 O.D. x 1 1/4	133.0 x 42.4	300	51	209	93	105	77	3/8 x 85
5 1/2 O.D. x 1 1/2	133.0 x 48.3	300	51	209	93	105	77	3/8 x 85

Shield Threaded Outlet Mechanical Tee

SDG-42

The mechanical tee and cross features a gap between the bolt pads. Do not attempt to bring bolt pads together which would result in metal to metal when tightening bolts and nuts. Note that excessive torque may cause joint failure - the following table provides recommended bolt fastening torque.

Bolt Size	Recommended Bolt Torque
Inch	n-m
3/8	40 ~ 60
1/2	110 ~ 135
5/8	135 ~ 175
3/4	175 ~ 245
7/8	245 ~ 325



Shield Mechanical
Tees allow a direct
branch connection to
be made on
a pipe run where
sufficient space
allows a hole
to be cut.
Material: Ductile Iron
ASTM A536.
Gasket Standard
EPDM. Threads are
available to BSPT
or NPT and can
be supplied in red
coating or hot
dipped galvanized.

Nominal Size	Pipe O.D.	Maximum Working Pressure	Hole Dia	Dimensions				Bolt Size
Run x Branch Inch	mm	Psi	mm +1.6	Y mm	Z mm	V mm	W mm	in x mm
5½ O.D. x 2	133 x 60.3	300	64	209	112.5	110	77	¾ x 85
5 x ½	139.7 x 21.3	300	38	221.5	78	110	84	¾ x 85
5 x ¾	139.7 x 26.9	300	38	221.5	78	110	84	¾ x 85
5 x 1	139.7 x 33.7	300	38	221.5	78	110	84	¾ x 85
5 x 1¼	139.7 x 42.4	300	51	221.5	95	112	84	¾ x 85
5 x 1½	139.7 x 48.3	300	51	221.5	95	112	84	¾ x 85
5 x 2	139.7 x 60.3	300	64	221.5	112.5	115	84	¾ x 85
5 x 3 O.D.	139.7 x 76.1	300	70	221.5	112.5	115	84	¾ x 85
5 x 3	139.7 x 88.9	300	89	221.5	132	120	84	¾ x 85
5 x 4	139.7 x 114.3	300	114	221.5	156	125	84	¾ x 85
6½ O.D. x ½	159.0 x 21.3	300	38	224	78	116	94	¾ x 105
6½ O.D. x 1	159.0 x 33.7	300	38	224	78	116	94	¾ x 105
6½ O.D. x 1¼	159.0 x 42.4	300	51	224	93	118	94	¾ x 105
6½ O.D. x 1½	159.0 x 48.3	300	51	224	93	118	94	¾ x 105
6½ O.D. x 2	159.0 x 60.3	300	64	224	112.5	125	94	¾ x 105
6½ O.D. x 3 O.D.	159.0 x 76.1	300	70	224	112.5	125	94	¾ x 105
6½ O.D. x 3	159.0 x 88.9	300	89	224	133	125	94	¾ x 105
6½ O.D. x 4	159.1 x 114.3	300	114	224	156.5	130	94	¾ x 105
6 O.D x ½	165.1 x 21.3	225	38	224	78	110	97.5	¾ x 105
6 O.D x ¾	165.1 x 26.9	300	38	224	78	110	97.5	¾ x 105
6 O.D x 1	165.1 x 33.7	300	38	224	78	118	97.5	¾ x 105
6 O.D x 1¼	165.1 x 42.4	300	51	224	93	118	97.5	¾ x 105
6 O.D x 1½	165.1 x 48.3	300	51	224	93	118	97.5	¾ x 105
6 O.D x 2	165.1 x 60.3	300	64	224	112.5	128.5	97.5	¾ x 105
6 O.D x 3 O.D.	165.1 x 76.1	300	70	224	112.5	128.5	97.5	¾ x 105
6 O.D x 3	165.1 x 88.9	300	89	224	132	128.5	97.5	¾ x 105
6 O.D x 4	165.1 x 114.3	300	114	224	154	135	97.5	¾ x 105
6 x 1¼	168.3 x 42.4	300	51	247	95	122	98.5	¾ x 105
6 x 1½	168.3 x 48.3	300	51	247	95	122	98.5	¾ x 105
6 x 2	168.3 x 60.3	300	64	247	112.5	132	98.5	¾ x 105
6 x 2½	168.3 x 73.0	300	70	247	112.5	132	98.5	¾ x 105
6 x 3 O.D.	168.3 x 76.1	300	70	247	112.5	132	98.5	¾ x 105
6 x 3	168.3 x 88.9	300	89	247	132	140	98.5	¾ x 105
6 x 4	168.3 x 114.3	300	114	247	160	140	98.5	¾ x 105
8 x 1	219.1 x 33.7	300	38	320	79.5	150	125	¾ x 115
8 x 1¼	219.1 x 42.4	300	51	320	96.5	150	125	¾ x 115
8 x 1½	219.1 x 48.3	300	51	320	96.5	150	125	¾ x 115
8 x 2	219.1 x 60.3	300	64	320	117	160	125	¾ x 115
8 x 2½	219.1 x 73.0	300	70	320	118	160	125	¾ x 115
8 x 3 O.D.	219.1 x 76.1	300	70	320	118	160	125	¾ x 115
8 x 3	219.1 x 88.9	300	89	320	136.5	160	125	¾ x 115
8 x 4	219.1 x 114.3	300	114	320	164	160	125	¾ x 115
10 x 1½	273.0 x 48.3	300	51	376	95.5	180	155	¾ x 120
10 x 2	273.0 x 60.3	300	64	376	118	185	155	¾ x 120
10 x 3 O.D.	273.0 x 76.1	300	70	376	118	190	155	¾ x 120
10 x 3	273.0 x 88.9	300	89	376	136.5	190	155	¾ x 120
10 x 4	273.0 x 114.3	300	114	376	164	190	155	¾ x 120

* Refer to UL/FM certificates for more information.
* SHIELD reserves the right to change the contents without notice.

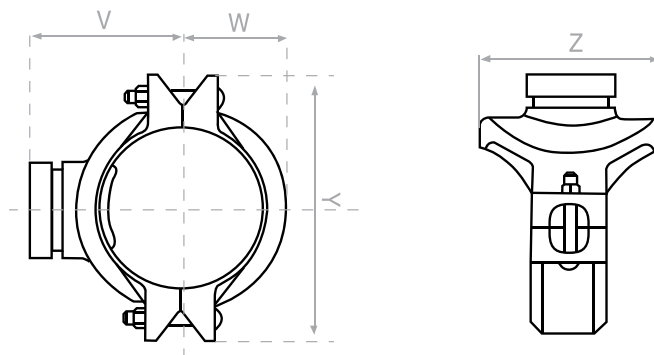


Shield Grooved Outlet Mechanical Tee

SDG-44

Nominal Size	Pipe O.D.	Maximum Working Pressure	Hole Dia	Dimensions				Bolt Size
Run x Branch Inch	mm	Psi	mm +1.6	Y mm	Z mm	V mm	W mm	in x mm
2 x 1¼	60.3 x 42.4	400.0	45.0	116.0	76.0	69.5	39.0	¾ x 57
2 x 1½	60.3 x 48.3	400.0	45.0	116.0	76.0	69.5	39.0	¾ x 57
2½ x 1	73.0 x 33.7	300.0	38.0	137.0	71.0	78.0	49.0	½ x 70
2½ x 1¼	73.0 x 42.4	400.0	51.0	137.0	84.5	78.0	49.0	½ x 70
2½ x 1½	73.0 x 48.3	400.0	51.0	137.0	84.5	78.0	49.0	½ x 70
76.1 x 1	76.1 x 33.7	300.0	38.0	137.0	71.0	78.0	49.5	½ x 70
76.1 x 1¼	76.1 x 42.4	300.0	51.0	137.0	84.5	78.0	49.5	½ x 70
76.1 x 1½	76.1 x 48.3	300.0	51.0	137.0	84.5	78.0	49.5	½ x 70
3 x 1	88.9 x 33.7	300.0	38.0	152.0	72.5	84.5	56.5	½ x 76
3 x 1¼	88.9 x 42.4	400.0	51.0	152.0	85.5	84.5	56.5	½ x 76
3 x 1½	88.9 x 48.3	400.0	51.0	152.0	85.5	84.5	56.5	½ x 76
3 x 2	88.9 x 60.3	300.0	64.0	152.0	98.0	84.5	56.5	½ x 76
4 x 1	114.3 x 33.7	300.0	38.0	188.0	78.4	102.0	70.0	½ x 76
4 x 1¼	114.3 x 42.4	400.0	51.0	188.0	89.0	102.0	70.0	½ x 76
4 x 1½	114.3 x 48.3	400.0	51.0	188.0	89.0	102.0	70.0	½ x 76
4 x 2	114.3 x 60.3	300.0	64.0	188.0	104.5	102.0	70.0	½ x 76
4 x 2½	114.3 x 73.0	400.0	70.0	188.0	104.5	102.0	70.0	½ x 76
4 x 76.1	114.3 x 76.1	300.0	70.0	188.0	104.5	102.0	70.0	½ x 76
4 x 3	114.3 x 88.9	400.0	89.0	188.0	128.0	102.0	70.0	½ x 76
139.7 x 1¼	139.7 x 42.4	300.0	51.0	221.5	95.0	118.0	84.0	⅝ x 85
139.7 x 1½	139.7 x 48.3	300.0	51.0	221.5	95.0	118.0	84.0	⅝ x 85
139.7 x 2	139.7 x 60.3	300.0	64.0	221.5	112.5	118.0	84.0	⅝ x 85
139.7 x 76.1	139.7 x 76.1	300.0	70.0	221.5	112.5	118.0	84.0	⅝ x 85
139.7 x 3	139.7 x 88.9	300.0	89.0	221.5	132.0	118.0	84.0	⅝ x 85

Shield Grooved Outlet Mechanical Tee



SDG-44

Nominal Size	Pipe O.D.	Maximum Working Pressure	Hole Dia	Dimensions				Bolt Size
Run x Branch Inch	mm	Psi	mm +1.6	Y mm	Z mm	V mm	W mm	in x mm
139.7 x 4	139.7 x 114.3	300.0	114.0	221.5	160.0	125.0	84.0	5/8 x 85
159.0 x 2	159.1 x 60.3	300.0	64.0	244.0	112.5	125.0	94.0	5/8 x 108
159.0 x 108.0	159.1 x 108.0	300.0	114.0	244.0	154.0	133.0	94.0	5/8 x 108
159.0 x 4	159.1 x 114.3	300.0	114.0	244.0	159.0	125.0	94.0	5/8 x 108
165.1 x 2	165.1 x 60.3	300.0	64.0	244.0	112.5	127.0	97.5	5/8 x 108
165.1 x 76.1	165.1 x 76.1	300.0	70.0	244.0	112.5	130.0	97.5	5/8 x 108
6 1/2 O.D x 3	165.1 x 88.9	300.0	89.0	244.0	132.0	130.0	97.5	5/8 x 108
6 1/2 O.D x 4	165.1 x 114.3	300.0	114.0	244.0	154.0	135.0	97.5	5/8 x 108
6 x 1 1/2	168.3 x 48.3	400.0	51.0	247.0	95.0	128.0	98.5	5/8 x 108
6 x 2	168.3 x 60.3	300.0	64.0	247.0	114.0	134.0	98.5	5/8 x 108
6 x 2 1/2	168.3 x 73.0	400.0	70.0	247.0	112.5	135.0	98.5	5/8 x 108
6 x 2 1/2	168.3 x 76.1	300.0	70.0	247.0	112.5	135.0	98.5	5/8 x 108
6 x 3	168.3 x 88.9	400.0	89.0	247.0	132.0	136.5	98.5	5/8 x 108
6 x 4	168.3 x 114.3	400.0	114.0	247.0	160.0	138.0	98.5	5/8 x 108
8 x 2	219.1 x 60.3	400.0	64.0	320.0	118.0	158.0	125.0	3/4 x 115
8 x 76.1	216.3 x 76.1	300.0	70.0	315.0	117.0	157.0	122.0	3/4 x 115
8 x 21/2	219.1 x 73.0	400.0	70.0	320.0	118.0	158.0	125.0	3/4 x 115
8 x 76.1	219.1 x 76.1	300.0	70.0	320.0	118.0	158.0	125.0	3/4 x 115
8 x 3	219.1 x 88.9	300.0	89.0	320.0	136.5	161.0	125.0	3/4 x 115
8 x 4	219.1 x 108.0	300.0	114.0	320.0	162.0	161.0	125.0	3/4 x 115
8 x 4	219.1 x 114.3	300.0	114.0	320.0	162.0	161.0	125.0	3/4 x 115
10 x 2 1/2	273.0 x 76.1	300.0	70.0	376.0	118.0	189.0	155.0	3/4 x 115
10 x 3	273.0 x 88.9	300.0	89.0	376.0	136.5	189.0	155.0	3/4 x 115
10 x 4	273.0 x 108	300.0	114.0	376.0	164.0	189.0	155.0	3/4 x 115
10 x 4	273.0 x 114.3	300.0	114.0	376.0	164.0	189.0	155.0	3/4 x 115

* Refer to UL/FM certificates for more information.

* SHIELD reserves the right to change the contents without notice.

Shield Threaded Mechanical Cross

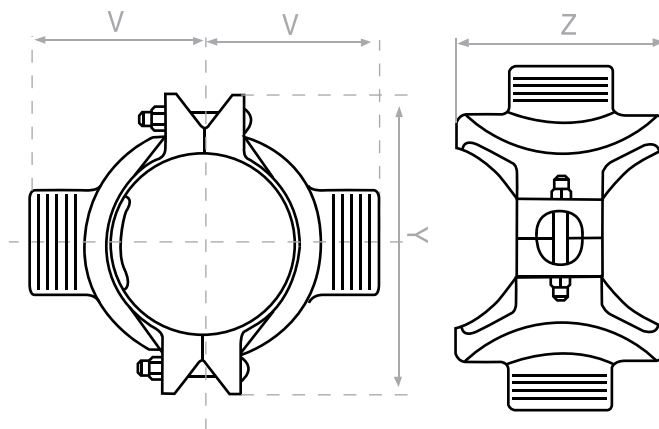
SDG-47



Nominal Size	Pipe O.D.	Maximum Working Pressure	Hole Dia	Dimensions			Bolt Size
Run x Branch Inch	mm	Psi	mm +1.6	Y mm	Z mm	V mm	in x mm
2½ x ¾	73.0 x 26.9	300.0	38.0	137.0	71.0	68.0	½ x 70
2½ x 1	73.0 x 33.7	300.0	38.0	137.0	71.0	70.0	½ x 70
2½ x 1¼	73.0 x 42.4	300.0	51.0	137.0	84.5	73.0	½ x 70
2½ x ½	76.1 x 21.3	300.0	38.0	137.0	71.0	61.5	½ x 70
2½ x ¾	76.1 x 26.9	300.0	38.0	137.0	71.0	75.0	½ x 70
2½ x 1	76.1 x 33.7	300.0	38.0	137.0	71.0	75.0	½ x 70
2½ x 1¼	76.1 x 42.4	300.0	51.0	137.0	84.5	75.0	½ x 70
3 x ½	88.9 x 21.3	300.0	38.0	152.0	72.5	71.5	½ x 76
3 x ¾	88.9 x 26.9	300.0	38.0	152.0	72.5	71.5	½ x 76
3 x 1	88.9 x 33.7	300.0	38.0	152.0	72.5	80.0	½ x 76
3 x 1¼	88.9 x 42.4	300.0	51.0	152.0	85.5	80.0	½ x 76
3 x 1½	88.9 x 48.3	300.0	51.0	152.0	85.5	80.0	½ x 76
108.0 x 1¼	108.1 x 42.4	300.0	51.0	172.0	89.0	87.0	½ x 76
108.0 x 1½	108.0 x 48.3	300.0	51.0	172.0	89.0	87.0	½ x 76
108.0 x 2	108.0 x 60.3	300.0	64.0	172.0	106.5	92.0	½ x 76
4 x ½	114.3 x 21.3	300.0	38.0	188.0	78.5	90.0	½ x 76
4 x ¾	114.3 x 26.9	300.0	38.0	188.0	78.5	90.0	½ x 76
4 x 1	114.3 x 33.7	300.0	38.0	188.0	78.5	93.0	½ x 76
4 x 1¼	114.3 x 42.4	300.0	51.0	188.0	89.0	95.0	½ x 76
4 x 1½	114.3 x 48.3	300.0	51.0	188.0	89.0	97.0	½ x 76
4 x 2	114.3 x 60.3	300.0	64.0	188.0	104.5	100.0	½ x 76
133.0 x 2	133.0 x 60.3	300.0	64.0	209.0	112.5	110.0	⅝ x 85
5 x 1	139.7 x 33.7	300.0	38.0	221.5	78.0	110.0	⅝ x 85
5 x 1¼	139.7 x 42.4	300.0	51.0	221.5	95.0	112.0	⅝ x 85
5 x 1½	139.7 x 48.3	300.0	51.0	221.5	95.0	112.0	⅝ x 85
5 x 2	139.7 x 60.3	300.0	64.0	221.5	112.5	115.0	⅝ x 85
5 x 2½	139.7 x 76.1	300.0	70.0	221.5	112.5	115.0	⅝ x 85

Shield Threaded Mechanical Cross

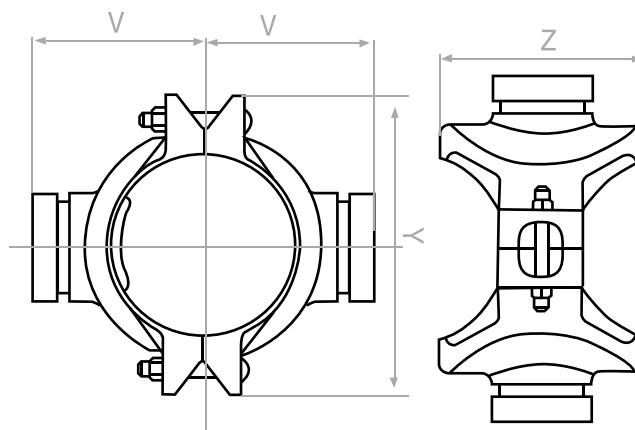
SDG-47



Nominal Size	Pipe O.D.	Maximum Working Pressure	Hole Dia	Dimensions			Bolt Size
Run x Branch Inch	mm	Psi	mm +1.6	Y mm	Z mm	V mm	in x mm
159.0 x 1¼	159.0 x 42.4	300.0	51.0	244.0	93.0	118.0	⅝ x 108
159.0 x 1½	159.0 x 48.3	300.0	51.0	244.0	93.0	118.0	⅝ x 108
159.0 x 2	159.0 x 60.3	300.0	64.0	244.0	112.5	125.0	⅝ x 108
159.0 x 76.1	159.0 x 76.1	300.0	70.0	244.0	112.5	125.0	⅝ x 108
6 x ½	165.1 x 21.3	300.0	38.0	244.0	78.0	110.0	⅝ x 108
6 x ¾	165.1 x 26.9	300.0	38.0	244.0	78.0	110.0	⅝ x 108
6 x 1	165.1 x 33.7	300.0	38.0	244.0	78.0	118.0	⅝ x 108
6 x 1¼	165.1 x 42.4	300.0	51.0	244.0	93.0	118.0	⅝ x 108
6 x 1½	165.1 x 48.3	300.0	51.0	244.0	93.0	118.0	⅝ x 108
6 x 2	165.1 x 60.3	300.0	64.0	244.0	112.5	128.5	⅝ x 108
6 x 2½	165.1 x 76.1	300.0	70.0	244.0	112.5	128.5	⅝ x 108
6 x 3	165.1 x 88.9	300.0	89.0	244.0	132.0	128.5	⅝ x 108
6 x 1¼	168.3 x 42.4	300.0	51.0	247.0	95.0	130.0	⅝ x 108
6 x 1½	168.3 x 48.3	300.0	51.0	247.0	95.0	122.0	⅝ x 108
6 x 2	168.3 x 60.3	300.0	64.0	247.0	112.5	132.0	⅝ x 108
6 x 2½	168.3 x 73.0	300.0	70.0	247.0	112.5	132.0	⅝ x 108
6 x 3	168.3 x 88.9	300.0	89.0	247.0	132.0	140.0	⅝ x 108
8 x 1	219.0 x 33.7	300.0	38.0	320.0	79.5	150.0	¾ x 115
8 x 1¼	219.1 x 42.4	300.0	51.0	320.0	96.5	150.0	¾ x 115
8 x 1½	219.1 x 48.3	300.0	51.0	320.0	96.5	150.0	¾ x 115
8 x 2	219.1 x 60.3	300.0	64.0	320.0	117.0	160.0	¾ x 115
8 x 2½	219.1 x 76.1	300.0	70.0	320.0	118.0	158.5	¾ x 115
8 x 3	219.1 x 88.9	300.0	89.0	320.0	136.5	160.0	¾ x 115
8 x 4	219.1 x 114.3	300.0	114.0	320.0	164.0	160.0	¾ x 115
10 x 1½	273.0 x 48.3	300.0	51.0	376.0	95.5	180.0	¾ x 115
10 x 2	273.0 x 60.3	300.0	64.0	376.0	118.0	185.0	¾ x 115
10 x 2½	273.0 x 76.1	300.0	70.0	376.0	118.0	190.0	¾ x 115
10 x 3	273.0 x 88.9	300.0	89.0	376.0	136.5	190.0	¾ x 115
10 x 4	273.0 x 114.3	300.0	114.0	376.0	164.0	190.0	¾ x 115

Shield Grooved Mechanical Cross

SDG-49

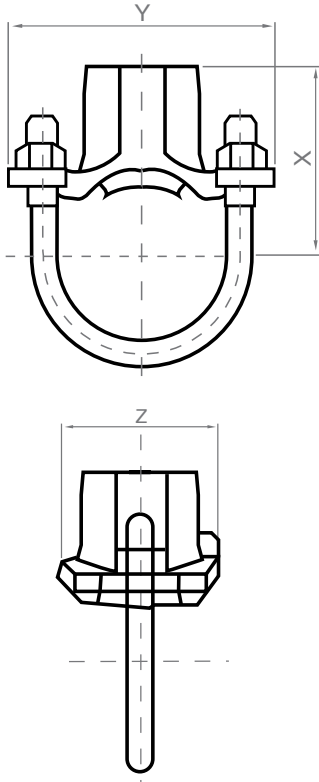


Nominal Size Run x Branch Inch	Pipe O.D. mm	Maximum Working Pressure PSI	Hole Dia mm +1.6	Dimensions			Bolt Size in x mm
				Y mm	Z mm	V mm	
2½ x 1¼	73.0 x 42.4	300.0	51.0	144.0	84.5	75.0	½ x 70
2½ x 1	76.1 x 33.7	300.0	38.0	137.0	71.0	78.0	½ x 70
2½ x 1¼	76.1 x 42.4	300.0	51.0	137.0	84.5	78.0	½ x 70
3 x 1	88.9 x 33.7	300.0	38.0	152.0	72.5	84.5	½ x 76
3 x 1¼	88.9 x 42.4	300.0	51.0	152.0	85.5	84.5	½ x 76
3 x 1½	88.9 x 48.3	300.0	51.0	152.0	85.5	84.5	½ x 76
4 x 1	114.3 x 33.7	300.0	38.0	188.0	78.4	102.0	½ x 76
4 x 1½	114.3 x 48.3	300.0	51.0	188.0	89.0	102.0	½ x 76
4 x 2	114.3 x 60.3	300.0	64.0	188.0	104.5	102.0	½ x 76
5 x 2	139.7 x 60.3	300.0	64.0	221.5	112.5	118.0	⅝ x 85
5 x 2½	139.7 x 76.1	300.0	70.0	221.5	112.5	118.0	⅝ x 85
6 x 2	165.1 x 60.3	300.0	64.0	244.0	112.5	127.0	⅝ x 108
6 x 2½	165.1 x 76.1	300.0	70.0	244.0	112.5	127.0	⅝ x 108
6 x 3	165.1 x 88.9	300.0	89.0	244.0	132.0	141.0	⅝ x 108
6 x 1½	168.3 x 48.3	300.0	51.0	247.0	95.0	128.0	⅝ x 108
6 x 2	168.3 x 60.3	300.0	64.0	247.0	114.0	134.0	⅝ x 108
6 x 2½	168.3 x 73.0	300.0	70.0	247.0	115.0	134.0	⅝ x 108
6 x 3	168.3 x 88.9	300.0	89.0	247.0	132.0	141.0	⅝ x 108
8 x 2	219.1 x 60.3	300.0	64.0	320.0	118.0	158.0	¾ x 115
8 x 2½	219.1 x 76.1	300.0	70.0	320.0	118.0	158.0	¾ x 115
8 x 3	219.1 x 88.9	300.0	89.0	320.0	136.5	161.0	¾ x 115
8 x 4	219.1 x 114.3	300.0	114.0	320.0	162.0	161.0	¾ x 115
10 x 2½	273.0 x 76.1	300.0	70.0	376.0	118.0	189.0	¾ x 115
10 x 3	273.0 x 88.9	300.0	89.0	376.0	136.5	189.0	¾ x 115
10 x 4	273.0 x 114.3	300.0	114.0	376.0	164.0	189.0	¾ x 115



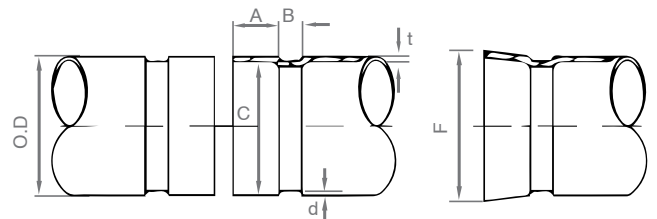
Shield U-Bolt Mechanical Tee

SDG-40



Nominal Size Inch	Hole Dia mm +1.6	Maximum Working Pressure PSI	Dimensions			U-Bolt Size in x mm
			X mm	Y mm	Z mm	
1¼ x ½	30.0	300	54.4	88.9	57.2	¾ x 73
1¼ x ¾	30.0	300	54.4	88.9	57.2	¾ x 73
1¼ x 1	30.0	300	57.7	88.9	57.2	¾ x 73
1½ x ½	30.0	300	57.7	88.9	57.2	¾ x 73
1½ x ¾	30.0	300	57.7	88.9	57.2	¾ x 73
1½ x 1	30.0	300	60.8	88.9	57.2	¾ x 73
2 x ½	30.0	300	63.3	95.3	57.2	¾ x 90
2 x ¾	30.0	300	63.3	95.3	57.2	¾ x 90
2 x 1	30.0	300	66.6	95.3	57.2	¾ x 90
2 x 1¼	45.0	300	66.6	120.0	76.0	½ x 52
2½ x ½	30.0	300	69.9	108.0	57.2	¾ x 105
2½ x ¾	30.0	300	69.9	108.0	57.2	¾ x 105
2½ x 1	30.0	300	73.2	108.0	57.2	¾ x 105
76.1 x ½	30.0	300	69.9	108.0	57.2	¾ x 105
76.1 x ¾	30.0	300	69.9	108.0	57.2	¾ x 105
76.1 x 1	30.0	300	73.2	108.0	57.2	¾ x 105
88.9 x 1	38.0	300	79.0	145.0	73.0	½ x 58
4 x 1	30.0	300	89.0	185.0	72.0	½ x 70
4 x 1¼	51.0	300	95.0	185.0	85.0	½ x 70
4 x 1½	51.0	300	95.0	185.0	85.0	½ x 70
6 x 1	38.0	300	124.0	254.0	75.0	5/8 x 102

Shield Groove Specifications



Nominal Size Inch	Pipe Outside Diameter			Gasket Seat 'A'	Groove Diameter 'C'		Groove Width 'B'		Groove Depth 'D'	Minimum Pipe Wall Thickness 'T'		Max 'F' Flare Dia.
	Actual	Tolerance			Maximum	Tolerance (+)0.000	Roll Groove (+/-)0.030	Cut Groove (+/-)0.031		Roll Groove	Cut Groove	
		(+)	(-)	(+/-)0.030								
1¼	1.660	0.016	0.016	0.625	1.535	-0.015	0.281	0.312	0.063	0.065	0.140	1.77
1½	1.900	0.019	0.019	0.625	1.775	-0.015	0.281	0.312	0.063	0.065	0.140	2.01
2	2.375	0.024	0.024	0.625	2.250	-0.015	0.344	0.312	0.063	0.065	0.154	2.48
2½	2.875	0.029	0.029	0.625	2.720	-0.018	0.344	0.312	0.078	0.083	0.187	2.98
3 O.D	3.000	0.030	0.030	0.625	2.845	-0.018	0.344	0.312	0.078	0.083	0.188	3.10
3	3.500	0.035	0.031	0.625	3.344	-0.018	0.344	0.312	0.078	0.083	0.188	3.60
4	4.500	0.045	0.031	0.625	4.334	-0.020	0.344	0.312	0.083	0.083	0.203	4.60
5½ O.D	5.500	0.056	0.031	0.625	5.334	-0.020	0.344	0.375	0.083	0.109	0.203	5.60
5	5.563	0.056	0.031	0.625	5.395	-0.022	0.344	0.375	0.084	0.109	0.203	5.66
6	6.625	0.063	0.031	0.625	6.445	-0.022	0.344	0.375	0.085	0.109	0.219	6.73
8	8.625	0.063	0.031	0.750	8.441	-0.025	0.469	0.375	0.092	0.109	0.238	8.80
10	10.750	0.063	0.031	0.750	10.562	-0.027	0.469	0.500	0.094	0.134	0.250	10.92
12	12.750	0.063	0.031	0.750	12.531	-0.030	0.469	0.500	0.109	0.156	0.279	12.92
14	14.000	0.063	0.031	0.750	13.781	-0.030	0.469	0.500	0.109	0.156	0.281	14.10
16	16.000	0.063	0.031	0.750	15.781	-0.030	0.469	0.500	0.109	0.165	0.312	16.10
18	18.000	0.060	0.030	1.000	17.781	-0.025	0.469	0.500	0.109	0.165	0.312	18.16
20	20.000	0.060	0.030	1.000	19.781	-0.025	0.469	0.500	0.109	0.188	0.312	20.16

* Refer to UL/FM certificates for more information.
* SHIELD reserves the right to change the contents without notice.

Pipe Support & Hangers

For Water, HVAC & Fire Fighting Applications



Shield Swivel Ring Hanger

Function

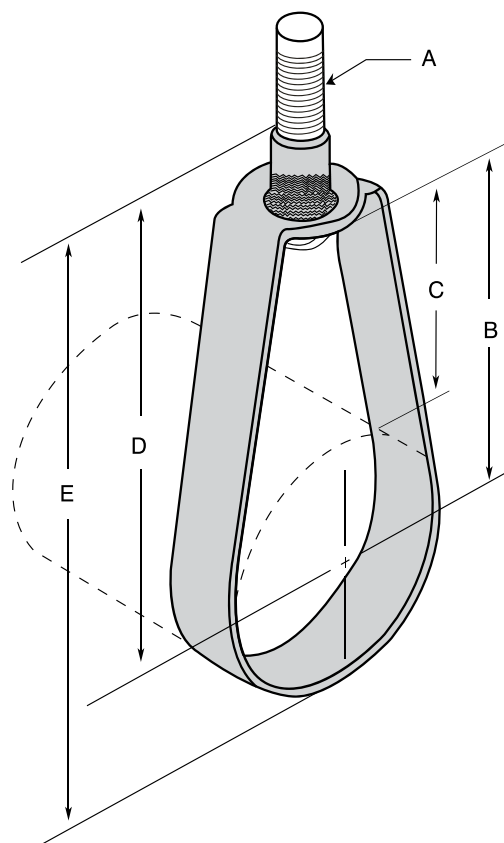
Designed for the suspension of non-insulated stationary pipe lines. The insert nut allows a vertical adjustment after installation, is tapped to NFPA reduced rod size standards. SD-HBF has a layer of felt which separates the pipe from the hanger to reduce vibration and sound.

Approval

Federal Specification WW-H-171E & A-A-1192 (Type 10)
Manufacturers Standardization Society MSS SP-69 & SP-58 (Type 10)
UL Listed/FM Approved.

Material and Finish

Pre-Galvanized coil adheres to ASTM A653 G90 or
Low Carbon Steel - Electro Galvanized to ASTM B633 or
Low Carbon Steel - Hot dipped galvanized to ASTM A123



SD-HB

Pipe Size	Rod Size	Dimensions				Max. Rec. Load
Inch	A Inch	B Inch	C Inch	D Inch	E Inch	lbs.
1/2	3/8	1 1/8	1 7/16	2 3/4	3 1/16	300
3/4	3/8	1 11/16	1 1/8	2 1/2	3 1/16	300
1	3/8	1 5/8	1	2 1/2	3 3/16	300
1 1/4	3/8	1 15/16	1 1/16	2 13/16	3 9/16	300
1 1/2	3/8	2 1/8	1 1/16	3 1/8	3 7/8	300
2	3/8	2 7/16	1 1/8	3 5/16	4 3/8	300
2 1/2	3/8	2 3/4	1 1/4	3 11/16	5	525
3	3/8	2 7/8	1 1/8	3 3/4	5 9/16	525
3 1/2	3/8	3 3/8	1 3/8	4 5/16	6 5/16	525
4	3/8	3 7/8	1 1/2	4 1/2	7	650
5	1/2	4 5/8	1 5/8	5 5/8	8 3/8	1000
6	1/2	5 5/8	2 1/4	6 1/2	9 13/16	1000
8	1/2	6 13/16	2 7/16	7 15/16	12 1/4	1000

Note:

- a) Swivel Nut is coming along with hanger.
- b) Swivel Nut is available for 10mm and 12mm Rod size.
- c) Refer to UL/FM certificates for more information.
- d) Swivel hanger is also available in SS material upon request.
- e) SHIELD reserves the right to change the contents without notice.

* Refer to UL/FM certificates for more information.
* SHIELD reserves the right to change the contents without notice.



Shield Clevis Hanger

Function

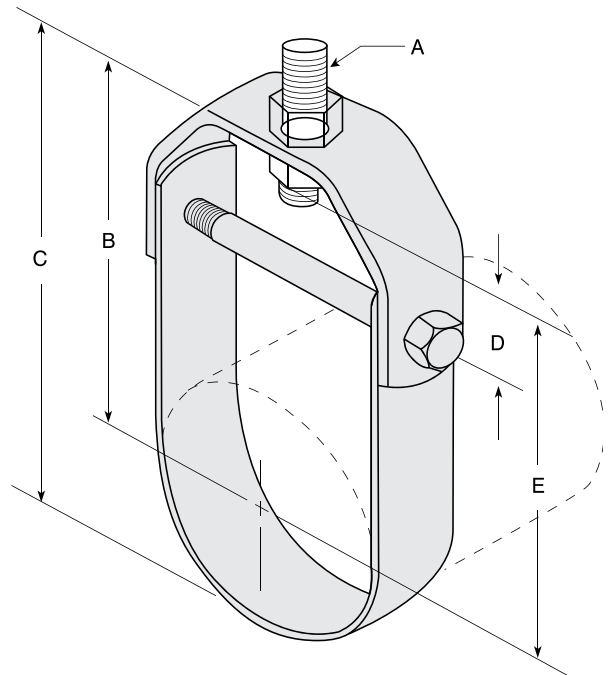
Designed for the suspension of non-insulated stationary pipe lines. SD-HCF has a layer of felt which separates the pipe from the hanger to reduce vibration and sound.

Approval

Federal Specification WW-H-171E & A-A-1192A (Type 1)
Manufacturers Standardization Society MSS SP-69 & SP-58 (Type 1)
UL Listed/FM Approved.

Material and Finish

Pre-Galvanized coil (upto 4") adheres to ASTM A653 G90 or
Low Carbon Steel - Electro Galvanized to ASTM B633 or
Low Carbon Steel - Hot dipped galvanized to ASTM A123



SD-HC

Pipe Size	Rod Size	Adjustment				Cross Bolt	Max. Rec. Load
Inch	A Inch	B Inch	C Inch	D Inch	E Inch	Inch	lbs.
1/2	3/8	2 7/16	2 7/8	1 1/8	2	1/4	610
3/4	3/8	2 5/8	3 1/8	1 1/4	2 3/16	1/4	610
1	3/8	3 1/16	3 3/4	1 5/8	2 5/8	1/4	610
1 1/4	3/8	3 3/8	4 3/16	1 5/8	2 15/16	1/4	610
1 1/2	3/8	3 1/2	4 7/16	1 1/2	3 1/16	1/4	610
2	3/8	3 3/4	5	1 5/8	3 5/16	1/4	610
2 1/2	1/2	3 7/8	5 3/8	1 1/8	3 3/4	3/8	1130
3	1/2	4 1/4	6	1 1/8	3 5/8	3/8	1130
3 1/2	1/2	4 1/2	6 1/2	1 1/4	3 7/8	3/8	1130
4	5/8	5 1/2	7 11/16	1 3/4	4 11/16	3/8	1430
5	5/8	6 1/8	9 1/8	1 7/8	5 5/16	1/2	1430
6	3/4	6 7/8	10 1/8	1 5/8	6	1/2	1940
8	7/8	8 3/4	12 7/8	2 1/8	7 7/8	5/8	2000
10	7/8	9 1/4	14 5/8	1 3/4	8 1/8	3/4	3600
12	7/8	11 5/8	18	2 1/2	10 1/2	3/4	3800
14	1	12 3/4	19 3/4	2 5/8	11 1/4	7/8	4200
16	1	14 1/8	22 1/8	2 5/8	13 3/8	1	4600
18	1 1/8	16 1/2	25 1/2	3 1/2	15	1 1/8	4800
20	1 1/4	18	28	4 1/8	16 1/8	1 1/4	4800
24	1 1/4	20 1/4	32 1/4	4 3/4	18 3/8	1 1/4	4800
30	1 1/4	24 1/2	38 3/8	5 1/2	21 1/2	1 1/4	6000
36	1 1/2	32	50	8 3/4	30	1 1/2	9500

Note:

- Use of an upper locknut ensures proper performance. Pipe spacers provided on 30 and larger clevises. If ordering SD-HCF felt lined hangers for pipe size of 3/2" or under order the next largest size to allow for the thickness of the felt lining.
- "D" Adjustment (Top of cross bolt to bottom of hanger rod nut)
- When an over-sized clevis is used, a pipe spacer should be placed over the clevis bolt to prevent the lower U-strap from moving inward.
- Clevis hanger is also available in SS material upon request.
- Refer to UL/FM certificates for more information.
- SHIELD reserves the right to change the contents without notice.

Shield Pipe Clamp with Lining

Features

- Designed for Horizontal, vertical and suspended installations.
- Suitable for Steel, copper and PVC pipes.
- Welded Nut M8/M10 with option of M10/M12.
- Connection thread with M8/M10 dual-tapped boss.
- Side Screw: 6 x 20 – Phillip head with vicer.
- High rigidity due to reinforcing rib.
- With highly elastic vibration control lining, vibration control tested.

Approval

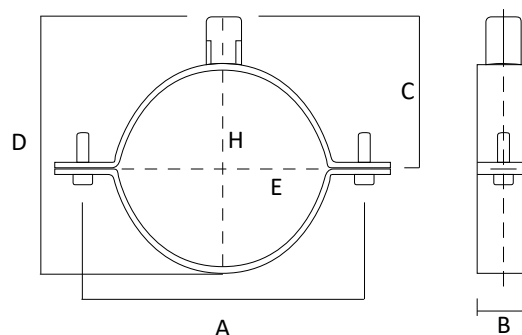
Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58 (Type 12)
Federal Specification WW-H-171E & A-A-1192A (Type 25)

Material

Mild Steel & EPDM Rubber

Finishing

Electro galvanized as per ASTM B633 Standards



SD-GE-RLC

Size	Pipe O.D.	Dimensions						Max. Load
		H	E	A	B	C	D	
Inch	mm	mm	mm	mm	mm	mm	mm	Kg
3/8	17.1	15	19	59	20	23	30	450
1/2	21.3	20	25	66	20	26	37	450
3/4	26.7	26	30	72	20	29	43	450
1	33.4	32	36	79	20	33	50	450
1 1/4	42.2	38	43	86	20	36	57	450
1 1/2	48.3	47	51	92	20	39	63	450
1 1/2-54	54.0	53	58	98	20	42	69	450
2	60.3	60	64	104	20	45	75	450
2-63	63.0	63	66	108	20	47	72	450
2-70	70.0	68	72	114	20	50	85	450
2 1/2	73.0	74	80	119	20	53	90	600
2 1/2-83	83.0	81	86	127	20	57	98	600
3	88.9	87	92	134	20	60	105	600
3 1/2	101.6	99	105	144	20	65	115	600
3 1/2-110	110.0	107	112	164	20	70	125	600
4	114.3	113	118	159	20	73	130	600
4-125	125.0	125	130	169	20	78	140	600
4-133	133.0	131	137	177	20	82	148	600
5	141.3	138	142	184	20	85	155	600
5-150	150.0	148	153	194	20	90	165	600
5-160	160.0	159	166	204	25	95	175	600
6	168.3	168	172	212	25	99	183	600
6-210	210.0	200	212	244	25	115	215	950
8	219.1	215	220	264	25	125	235	950
10	273.0	269	274	294	25	140	265	950
12	323.8	313	318	367	25	177	339	1200

Note:

- Measurements are subject to 5% tolerance.
- Other Sizes available on request.
- Hot Dipped Galvanized can be supplied upon request.
- Refer to UL certificate for more information.
- SHIELD reserves the right to change the contents without notice.

* Refer to UL certificates for more information.

* SHIELD reserves the right to change the contents without notice.



55

Shield Pipe Clamp with Lining



SD-GE-RLC

Selection of Lined Pipe Hangers for Different Types of Pipes

Size Inch	Copper mm	Steel (SCH 40)		UPVC / PE mm	ABS
		Inch	mm		
3/8"	15, 18	-	16	-	-
1/2	22	1/2	22	20	DN15 (21.4)
3/4	24, 28	3/4	28	25	DN20 (26.8)
1	35	1	35	32, 38	DN25 (33.6)
1 1/4	42	1 1/4	42	40, 43	DN32 (42.3)
1 1/2	-	1 1/2	48	45	DN40 (48.3)
1 1/2-54	54	-	-	54	-
2	64	2	60	60	DN50 (60.4)
2-63	-	-	-	-	-
2-70	67, 70	-	-	70	-
2 1/2	76	2 1/2	75	75	DN65 (75.4)
2 1/2-83	80	-	-	83	-
3	-	3	90	90	-
3 1/2	102, 105	-	-	102	DN80 (88.9)
3 1/2-110	108	-	-	110	-
4	-	4	115	115	DN100 (114.3)
4-125	125	-	-	125	-
4-133	-	-	-	135	-
5	-	5	140	140	DN125 (127.0)
5-150	-	-	-	152	-
5-160	159	-	-	160	-
6	167	6	168	-	DN150 (152.4)
6-210	206	-	-	200	-
8	-	8	219	220, 225	DN200 (203.2)
10	-	-	-	250	DN225 (228.6)
12	-	-	-	-	DN300 (304.8)

Note:

- a) Measurements are subject to 5% tolerance.
- b) Refer to UL certificate for more information.
- b) SHIELD reserves the right to change the contents without notice.

Shield Pipe Clamp

Features

- Designed for Horizontal, vertical and suspended installations.
- Welded Nut M8/M10 with option of M10/M12.
- High - Strength round welded connecting nuts.
- The two locking screws allow adjustment.
- Can be used as a pipe anchor point.
- Suitable for installations without vibration control requirements.

Approval

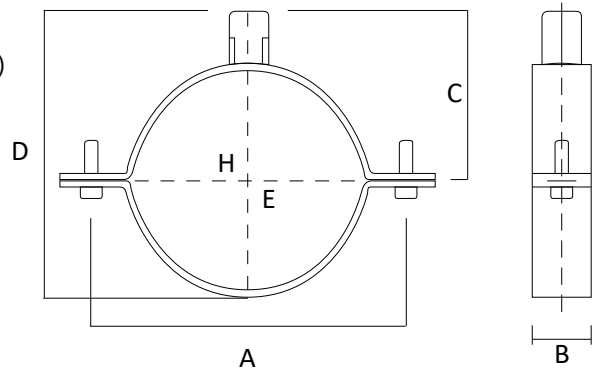
Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58 (Type 12)
Federal Specification WW-H-171E & A-A-1192A (Type 25)

Material

Mild Steel

Finishing

Electro galvanized as per ASTM B633 Standards



SD-GE-PPC

Size	Pipe O.D.	Dimensions						Max. Load
		H	E	A	B	C	D	
Inch	mm	mm	mm	mm	mm	mm	mm	Kg
3/8"	17.1	15	19	59	20	23	30	450
1/2	21.3	20	25	66	20	26	37	450
3/4	26.7	26	30	72	20	29	43	450
1	33.4	32	36	79	20	33	50	450
1 1/4	42.2	38	43	86	20	36	57	450
1 1/2	48.3	47	51	92	20	39	63	450
1 1/2-54	54.0	53	58	98	20	42	69	450
2	60.3	60	64	104	20	45	75	450
2-63	63.0	63	66	108	20	47	72	450
2-70	70.0	68	72	114	20	50	85	450
2 1/2	73.0	74	80	119	20	53	90	600
2 1/2-83	83.0	81	86	127	20	57	98	600
3	88.9	87	92	134	20	60	105	600
3 1/2	101.6	99	105	144	20	65	115	600
3 1/2-110	110.0	107	112	164	20	70	125	600
4	114.3	113	118	159	20	73	130	600
4-125	125.0	125	130	169	20	78	140	600
4-133	133.0	131	137	177	20	82	148	600
5	141.3	138	142	184	20	85	155	600
5-150	150.0	148	153	194	20	90	165	600
5-160	160.0	159	166	204	25	95	175	600
6	168.3	168	172	212	25	99	183	600
6-210	210.0	200	212	244	25	115	215	950
8	219.1	215	220	264	25	125	235	950
10	273.0	269	274	294	25	140	265	950
12	323.8	313	318	367	25	177	339	1200

Note:

- Measurements are subject to 5% tolerance.
- Other Sizes available on request.
- Hot Dipped Galvanized can be supplied upon request.
- Refer to UL certificate for more information.
- SHIELD reserves the right to change the contents without notice.

* Refer to UL certificates for more information.
* SHIELD reserves the right to change the contents without notice.



Shield U Strap Hanger with Lining

Features

- Designed for mount plain or insulated pipes.
- It can be used as a pipe anchor with Rubber Support Insert also.
- Vibration and Sound Control tested & verified with highly elastic lining.

Approval

Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58
Federal Specification WW-H-171E & A-A-1192A

Material

Mild Steel & EPDM Rubber

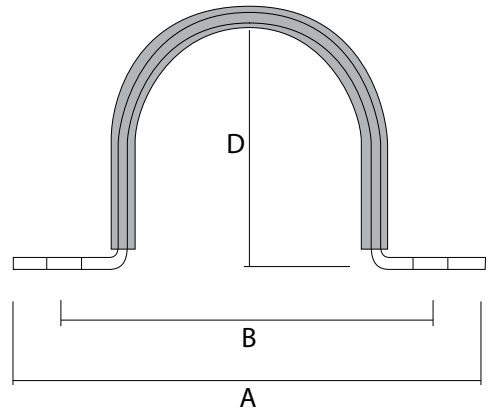
Finishing

Electro galvanized as per ASTM B633 Standards



SD-GE-RUS

Size Inch	Pipe O.D. mm	Dimensions			Bolt Size mm	Max. Load Kg
		A mm	B mm	Width mm		
½	21.3	76	51	20	M8	500
¾	26.7	82	57	20	M8	500
1	33.4	89	64	20	M8	500
1¼	42.2	96	71	20	M8	500
1½	48.3	102	77	20	M8	500
-	54.0	108	83	20	M8	500
2	60.3	114	89	20	M8	500
-	67.0	121	96	25	M8	500
2½	73.0	145	113	25	M8	600
-	82.0	152	120	25	M8	600
3	88.9	160	128	25	M8	600
3½	101.6	170	138	25	M8	600
-	110.0	178	146	25	M8	600
4	114.3	185	153	25	M8	600
-	126.0	196	164	30	M8	600
5	141.3	210	178	30	M10	600
-	148.0	218	186	30	M10	600
-	155.0	225	193	30	M10	600
6	168.3	237	205	30	M10	600
-	179.0	249	217	30	M10	600
-	190.0	260	228	30	M10	800
-	205.0	275	243	30	M10	800
8	219.1	289	257	30	M10	800
-	230.0	300	268	30	M10	800
-	241.0	332	291	30	M12	1250
-	263.0	354	313	30	M12	1250
10	273.0	364	323	30	M18	1250
-	295.0	386	345	40	M18	1250



Note:

- Measurements are subject to 5% tolerance.
- Other Sizes available on request.
- Hot Dipped Galvanized can be supplied upon request.
- SHIELD reserves the right to change the contents without notice.

Shield U Strap Hanger

Features

- Designed for mount plain or insulated pipes.
- U Strap Hangers can be used as a pipe anchor with rubber support inserts also.

Approval

Manufacturers Standardization Society ANSI/MSS SP-69 & SP-58 (Type 26)
Federal Specification WW-H-171E & A-A-1192A (Type 26)

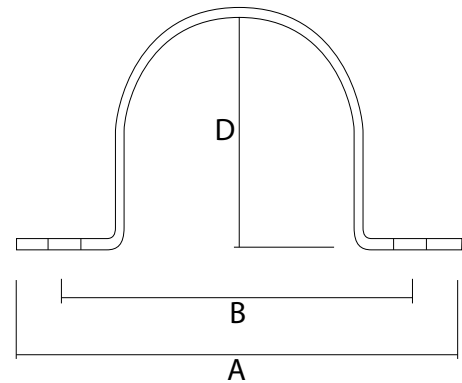
Material

Mild Steel

Finishing

Electro galvanized as per ASTM B633 Standards

SD-GE-US



Size	Pipe O.D.	Dimensions			Bolt Size	Max. Load
		A	B	Width		
Inch	mm	mm	mm	mm	mm	Kg
½	21.3	76	51	20	M8	500
¾	26.7	82	57	20	M8	500
1	33.4	89	64	20	M8	500
1¼	42.2	96	71	20	M8	500
1½	48.3	102	77	20	M8	500
-	54.0	108	83	20	M8	500
2	60.3	114	89	20	M8	500
-	67.0	121	96	25	M8	500
2½	73.0	145	113	25	M8	600
-	82.0	152	120	25	M8	600
3	88.9	160	128	25	M8	600
3½	101.6	170	138	25	M8	600
-	110.0	178	146	25	M8	600
4	114.3	185	153	25	M8	600
-	126.0	196	164	30	M8	600
5	141.3	210	178	30	M10	600
-	148.0	218	186	30	M10	600
-	155.0	225	193	30	M10	600
6	168.3	237	205	30	M10	600
-	179.0	249	217	30	M10	600
-	190.0	260	228	30	M10	800
-	205.0	275	243	30	M10	800
8	219.1	289	257	30	M10	800
-	230.0	300	268	30	M10	800
-	241.0	332	291	30	M12	1250
-	263.0	354	313	30	M12	1250
10	273.0	364	323	30	M18	1250
-	295.0	386	345	40	M18	1250

Note:

- Measurements are subject to 5% tolerance.
- Other Sizes available on request.
- Hot Dipped Galvanized can be supplied upon request.
- SHIELD reserves the right to change the contents without notice.

Shield Riser Hanger/Clamp with Lining

Features

Designed to act as a rigid support / guide for vertical pipes to control the suspension in pipeline. Equally useable in most of the pipe types.

- Strengthened bolts for high load capacity.
- Highly elastic lining for sound and vibrations control.

Approval

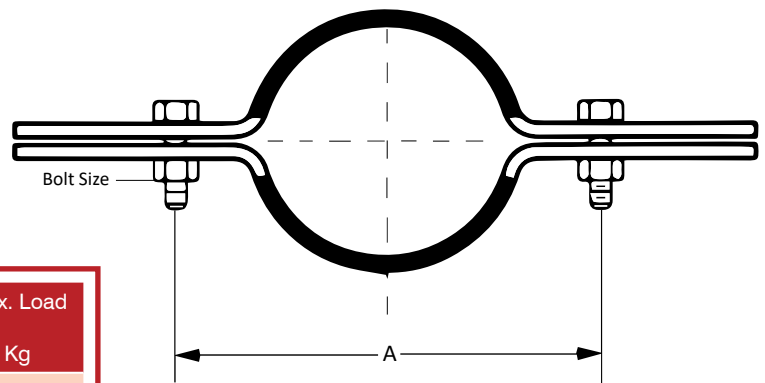
Manufacturers Standardization Society ANSI/MSS
SP-69 & SP-58 (Type 8)
Federal Specification WW-H-171E & A-A-1192A
(Type 8)

Material

Mild Steel & EPDM Rubber

Finishing

Electro galvanized as per ASTM B633 Standards



SD-GE-RRC

Size Inch	Pipe O.D. mm	A mm	Bolt Size mm	Max. Load Kg
½	21.3	57	M10	1250
¾	26.7	68	M10	1250
1	33.4	76	M10	1250
1¼	42.2	90	M10	1250
1½	48.3	110	M10	1250
2	60.3	130	M10	1850
2½	73.0	142	M12	1850
3	88.9	161	M12	2250
4	114.3	190	M12	3600
6	168.3	258	M16	4500
8	219.1	333	M16	4500
10	273.0	409	M16	5800
12	323.8	467	M20	7300

Note:

- Measurements are subject to 5% tolerance.
- Other Sizes available on request.
- Hot Dipped Galvanized can be supplied upon request.
- SHIELD reserves the right to change the contents without notice.

Shield Riser Hanger/ Clamp

Features

Designed to act as a rigid support for vertical pipes to control the suspension in pipeline. Equally useable in most of the pipe types.

Strengthened bolts for high load capacity.

Approval

Manufacturers Standardization Society ANSI/MSS
SP-69 & SP-58 (Type 8)

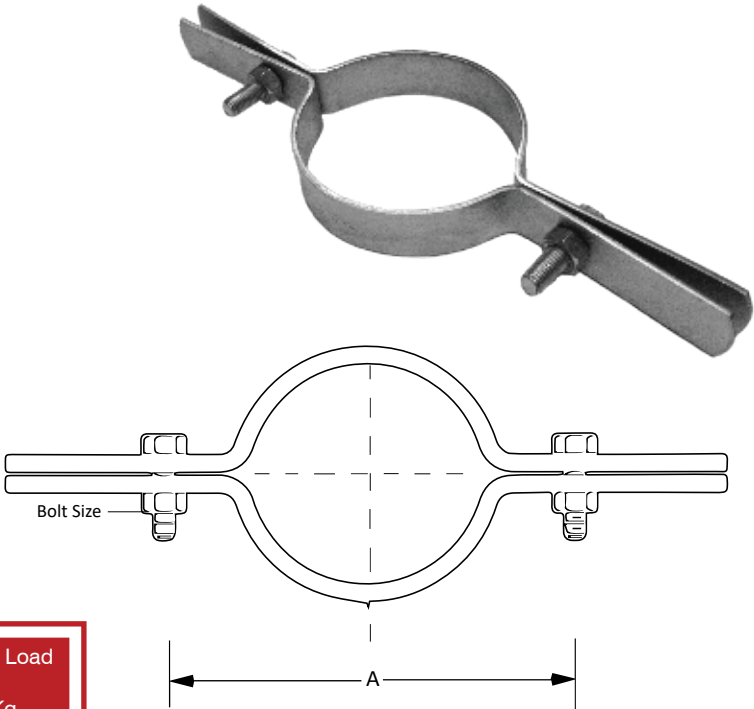
Federal Specification WW-H-171E & A-A-1192A
(Type 8)

Material

Mild Steel

Finishing

Electro galvanized as per ASTM B633 Standards



SD-GE-PRC

Size	Pipe O.D.	A	Bolt Size	Max. Load
Inch	mm	mm	mm	Kg
½	21.3	57	M10	1250
¾	26.7	68	M10	1250
1	33.4	76	M10	1250
1¼	42.2	90	M10	1250
1½	48.3	110	M10	1250
2	60.3	130	M10	1850
2½	73.0	142	M12	1850
3	88.9	161	M12	2250
4	114.3	190	M12	3600
6	168.3	258	M16	4500
8	219.1	333	M16	4500
10	273.0	409	M16	5800
12	323.8	467	M20	7300

- Note:
- a) Measurements are subject to 5% tolerance.
 - b) Other Sizes available on request.
 - c) Hot Dipped Galvanized can be supplied upon request.
 - d) SHIELD reserves the right to change the contents without notice.

Shield U Bolt

Features

- Designed to use as a support, anchor or guide for various types of pipes.
- High load capacity due to one piece design.
- Supplied with two Nuts & Washers.
- Special U bolts with Longer Tangents and Threads can be furnished upon request.

Approval

Manufacturers Standardization Society ANSI/MSS

SP-69 & SP-58 (Type 24)

Federal Specification WW-H-171E & A-A-1192A

(Type 24)(Type 8)

Material

Mild Steel

Finishing

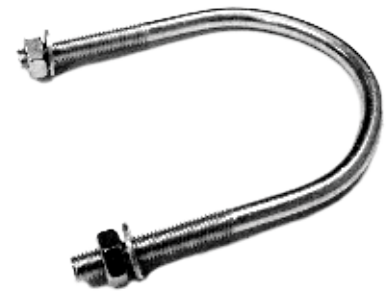
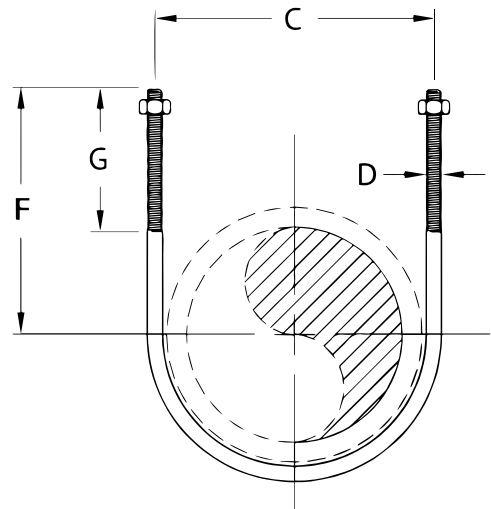
Electro galvanized as per ASTM B633 Standards

SD-UB

Size Inch	Pipe O.D. mm	Dimensions			
		D mm	C mm	F mm	G mm
½	21.3	M8	31	35	35
¾	26.7	M10	39	40	38
1	33.4	M10	45	45	40
1¼	42.2	M10	54	55	45
1½	48.3	M10	60	55	45
2	54.0	M10	72	60	45
2½	60.3	M10	86	75	55
3	67.0	M10	102	80	55
4	73.0	M10	128	95	55
6	82.0	M12	184	130	70
8	88.9	M12	239	155	70
10	101.6	M20	273	370	100
12	110.0	M20	324	420	100
14	114.3	M20	356	455	100
16	126.0	M20	406	505	100
18	141.3	M24	457	555	100
20	148.0	M24	508	605	100
24	155.0	M24	610	710	100

Note:

- Measurements are subject to 5% tolerance.
- Other Sizes available on request.
- U Bolt sizes can be modified to match with Rubber support inserts.
- Alternate rod sizes for different pipe sizes are also available.
- Hot Dipped Galvanized can be supplied upon request.
- Refer to UL certificate for more information.
- SHIELD reserves the right to change the contents without notice.



Shield Rubber Support Insert

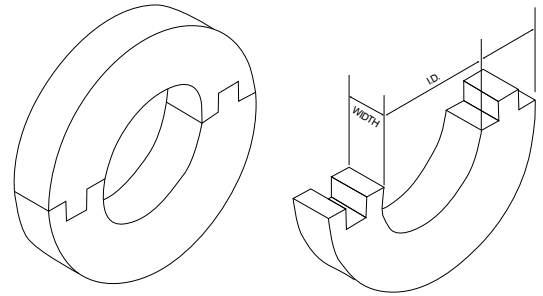


Features

- Very high load bearing capacity.
- Dimensionally accurate as each piece is moulded.
- Tongue and Groove design for small sizes.
- Unique DOVETAIL lock for higher sizes.
- Excellent resistance to Deterioration / Distortion.
- Available with steel reinforcements for higher sizes.

Material

EPDM Rubber



SD-RSI

Nominal Pipe Size		SCH40 Steel Pipe O.D.	Width of Rubber Support Insert	Part numbers for Rubber Support Insert Thickness							
				½ (13)	¾ (19)	1 (25)	1¼ (32)	1½ (38)	2 (50)	2½ (65)	3 (75)
Inch	mm	mm	mm	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)
½	15	21.3	25	SD-RSI13-01	SD-RSI19-01	SD-RSI25-01	SD-RSI32-01	SD-RSI38-01	SD-RSI50-01	SD-RSI65-01	SD-RSI75-01
¾	20	26.7	25	SD-RSI13-02	SD-RSI19-02	SD-RSI25-02	SD-RSI32-02	SD-RSI38-02	SD-RSI50-02	SD-RSI65-02	SD-RSI75-02
1	25	33.4	25	SD-RSI13-03	SD-RSI19-03	SD-RSI25-03	SD-RSI32-03	SD-RSI38-03	SD-RSI50-03	SD-RSI65-03	SD-RSI75-03
1¼	32	42.2	25	SD-RSI13-04	SD-RSI19-04	SD-RSI25-04	SD-RSI32-04	SD-RSI38-04	SD-RSI50-04	SD-RSI65-04	SD-RSI75-04
1½	40	48.3	25	SD-RSI13-05	SD-RSI19-05	SD-RSI25-05	SD-RSI32-05	SD-RSI38-05	SD-RSI50-05	SD-RSI65-05	SD-RSI75-05
2	50	60.3	25	SD-RSI13-06	SD-RSI19-06	SD-RSI25-06	SD-RSI32-06	SD-RSI38-06	SD-RSI50-06	SD-RSI65-06	SD-RSI75-06
2½	65	73.0	38	SD-RSI13-07	SD-RSI19-07	SD-RSI25-07	SD-RSI32-07	SD-RSI38-07	SD-RSI50-07	SD-RSI65-07	SD-RSI75-07
3	80	88.9	38	SD-RSI13-08	SD-RSI19-08	SD-RSI25-08	SD-RSI32-08	SD-RSI38-08	SD-RSI50-08	SD-RSI65-08	SD-RSI75-08
3½	90	101.6	38	SD-RSI13-09	SD-RSI19-09	SD-RSI25-09	SD-RSI32-09	SD-RSI38-09	SD-RSI50-09	SD-RSI65-09	SD-RSI75-09
4	100	114.3	38	SD-RSI13-10	SD-RSI19-10	SD-RSI25-10	SD-RSI32-10	SD-RSI38-10	SD-RSI50-10	SD-RSI65-10	SD-RSI75-10
5	125	141.3	38	SD-RSI13-11	SD-RSI19-11	SD-RSI25-11	SD-RSI32-11	SD-RSI38-11	SD-RSI50-11	SD-RSI65-11	SD-RSI75-11
6	150	168.3	50	SD-RSI13-12	SD-RSI19-12	SD-RSI25-12	SD-RSI32-12	SD-RSI38-12	SD-RSI50-12	SD-RSI65-12	SD-RSI75-12
8	200	219.1	50	SD-RSI13-13	SD-RSI19-13	SD-RSI25-13	SD-RSI32-13	SD-RSI38-13	SD-RSI50-13	SD-RSI65-13	SD-RSI75-13
10	250	273.0	50	SD-RSI13-14	SD-RSI19-14	SD-RSI25-14	SD-RSI32-14	SD-RSI38-14	SD-RSI50-14	SD-RSI65-14	SD-RSI75-14
12	300	323.8	50	SD-RSI13-15	SD-RSI19-15	SD-RSI25-15	SD-RSI32-15	SD-RSI38-15	SD-RSI50-15	SD-RSI65-15	SD-RSI75-15
14	350	355.6	50	SD-RSI13-16	SD-RSI19-16	SD-RSI25-16	SD-RSI32-16	SD-RSI38-16	SD-RSI50-16	SD-RSI65-16	SD-RSI75-16
16	400	406.4	50	SD-RSI13-17	SD-RSI19-17	SD-RSI25-17	SD-RSI32-17	SD-RSI38-17	SD-RSI50-17	SD-RSI65-17	SD-RSI75-17
18	450	457.2	50	SD-RSI13-18	SD-RSI19-18	SD-RSI25-18	SD-RSI32-18	SD-RSI38-18	SD-RSI50-18	SD-RSI65-18	SD-RSI75-18
20	500	508.0	50	SD-RSI13-19	SD-RSI19-19	SD-RSI25-19	SD-RSI32-19	SD-RSI38-19	SD-RSI50-19	SD-RSI65-19	SD-RSI75-19
24	600	610.0	50	SD-RSI13-20	SD-RSI19-20	SD-RSI25-20	SD-RSI32-20	SD-RSI38-20	SD-RSI50-20	SD-RSI65-20	SD-RSI75-20

Note:

- Measurements are subject to 5% tolerance.
- Other Sizes available on request.
- Hot Dipped Galvanized can be supplied upon request.
- SHIELD reserves the right to change the contents without notice.

Shield Threaded Rod

Features

- Designed for use as a Double end Studs with a nut on either side or as studs.
- Right Handed.
- Coarse Threads.
- Commercial Nut Fit.

Standard

DIN 975, steel - Property Class 4.8

Material

Mild Steel

Finishing

Zinc Plated

SD-TR

Coarse & Fine Thread Length (L) = 1000mm, 2000mm & 3000 mm											
Thread (D)	mm	M4	M5	M6	M7	M8	M8	M10	M10	M12	M12
Diameter	Inch	0.157	0.197	0.236	0.276	0.315	0.315	0.315	0.394	0.472	0.472
Pitch	mm	0.700	0.800	1.000	1.000	1.000	1.250	1.250	1.500	1.250	1.750
Thread (D)	mm	M14	M16	M16	M18	M20	M20	M22	M24	M27	M30
Diameter	Inch	0.551	0.630	0.630	0.709	0.787	0.787	0.866	0.945	1.063	1.181
2.000	mm	2.000	1.500	2.000	2.500	1.500	2.500	2.500	3.000	3.000	3.500
Thread (D)	mm	M33	M36	M39	M42	M45	M48	M52	M56	M60	M64
Diameter	Inch	1.299	1.417	1.535	1.654	1.722	1.890	2.047	2.205	2.362	2.520
Pitch	mm	3.500	4.000	4.000	4.500	4.500	5.000	5.000	5.500	5.500	6.000

Note:

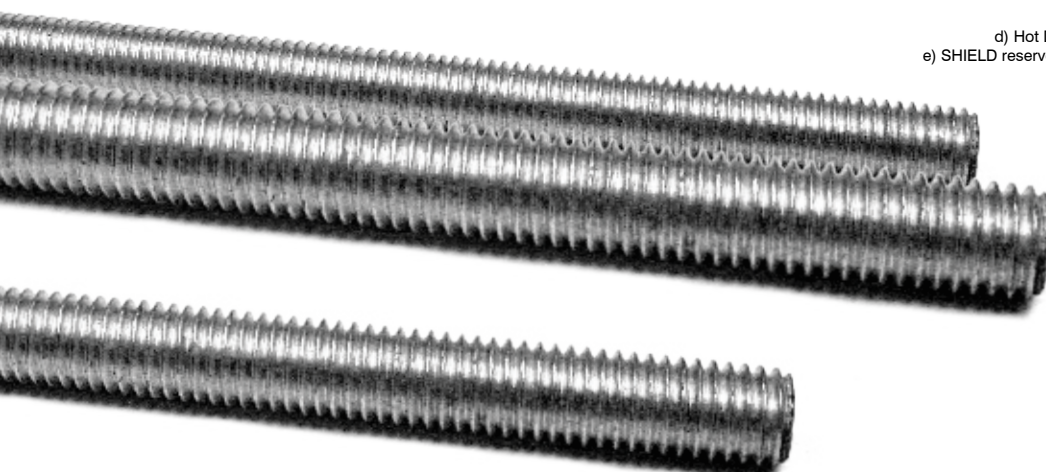
a) Measurements are subject to 5% tolerance.

b) Other Sizes available on request.

c) Left Handed is Available upon request.

d) Hot Dipped Galvanized can be supplied upon request.

e) SHIELD reserves the right to change the contents without notice.



Shield Beam Clamp

Features

Beam Clamps are designed to clamp hanger rod to the beam's top flange or bar joist. Universal open U design allows for adjustments and permissible to use in an inverted position on the bottom flange of the beam also.

Approval

Manufacturers Standardization Society ANSI/MSS SP-69 (Type 19 & 23)
Federal Specification WW-H-171E (Type 23) & A-A-1192A (Type 19 & 23)
UL Listed/FM Approved.

Material

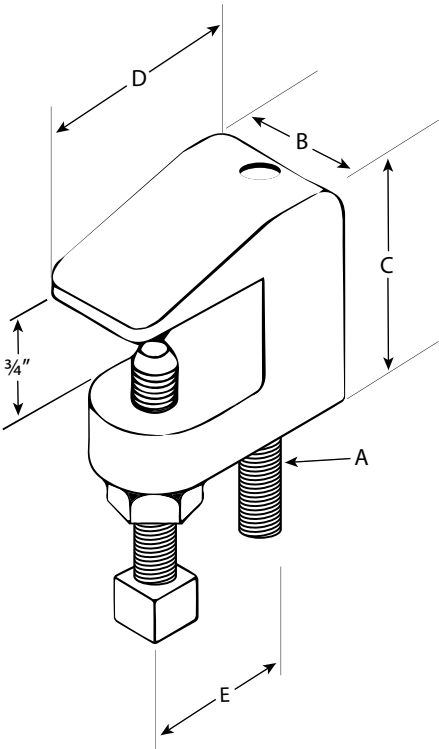
Ductile Iron & Malleable Iron.

Finishing

Electro galvanized as per ASTM B 633 Standards.

Models

SD-CBC/CBCA 110 - 3⁄8" (10mm)
SD-CBC/CBCA 115 - 1⁄2" (12mm)
SD-CBC 210 - 3⁄8" (10mm)



SD-CBC

Models	Rod Size A Inch (mm)	Dimensions				Max. Pipe Size Inch	Max. Load Kg
		B mm	C mm	D mm	E mm		
SD-CBC/CBCA 110	3⁄8 (10)	21.00	40.00	49.0	42.00	4	250
SD-CBC/CBCA 115	1⁄2 (12)	25.00	42.50	52.0	49.00	8	750

- Note:
- a) Measurements are subject to 5% tolerance.
 - b) Other Sizes available on request.
 - c) Hot Dipped Galvanized can be supplied upon request.
 - d) Refer to UL/FM certificates for more information.
 - e) SHIELD reserves the right to change the contents without notice.

Factory Mutual System



* Refer to UL/FM certificates for more information.
* SHIELD reserves the right to change the contents without notice.





For further information on any aspect of the
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