



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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Shield Pipes Technical Data

Black and 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 Galvanised Pipes (Calculated)						No. of pipes packed per standard bundle (1 Tonne Approx.)
			Max.		Min.				Plain Ended			Screwed & Socketed			Plain Ended			Screwed & Socketed			
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	kg/mtr	mtr/ton	ft/ton	kg/mtr	mtr/ton	ft/ton	kg/mtr	mtr/ton	ft/ton	kg/mtr	mtr/ton	ft/ton	
L I G H T (A)	1/2	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
	3/4	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
	1 1/4	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
	1 1/2	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
	2 1/2	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)	1/2	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
	3/4	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
	1 1/4	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
	1 1/2	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
	2 1/2	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
	6	150	6.539	166.1	6.461	164.1	0.197	5.00	19.70	51	167	20.300	49	161	20.100	50	164	20.710	48	157	7
H E A V Y (C)	1/2	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
	3/4	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
	1 1/4	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
	1 1/2	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
	2 1/2	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 steel pipe & 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	
		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	67.9	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						

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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]

Wall = Wall thickness in mm

Wt. = Weight in Kg / Mtr.

Available in black & hot dipped galvanized

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

Hydrostatic pressure test applied as per ASTM Standards

Shield Threaded Fittings

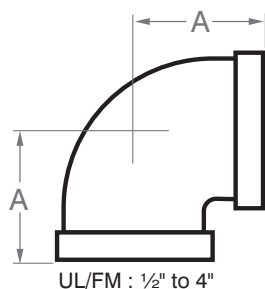
Shield Threaded Fittings feature a complete range of ductile iron / malleable iron threaded fittings in a wide variety of configurations in sizes from 1/2" to 6".

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

Materials	Ductile iron ASTM A536, BS EN 1563 Malleable Iron BS EN 1562
Max. Working Pressure	500 PSI
Dimensions	American Standard ASME B16.3, B16.4, B16.14, Unions B16.39 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

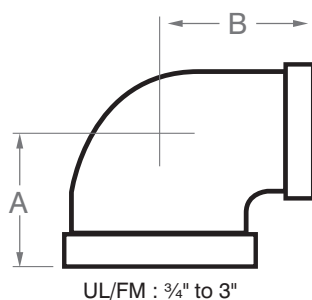


Shield Threaded Fittings



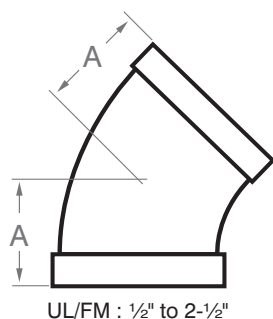
SDT-100 ELBOW 90°

Nominal Size Inch	A Inch	Nominal Size Inch	A Inch
1/2	1.12	2 1/2	2.70
3/4	1.31	3	3.08
1	1.50	3 1/2	3.42
1 1/4	1.75	4	3.79
1 1/2	1.95	5	4.5
2	2.25	6	5.13



SDT-101 REDUCING ELBOW 90°

Nominal Size Inch	A Inch	B Inch
3/4 x 1/2	1.20	1.22
1 x 1/2	1.26	1.36
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 3/4	1.60	1.97
2 x 1	1.73	2.02
2 x 1 1/2	2.02	2.16
2 1/2 x 2	2.39	2.60
2 1/2 x 1 1/2	2.16	2.51
3 x 2 1/2	2.83	3.00
3 x 2	2.52	2.89
4 x 3	3.30	3.60



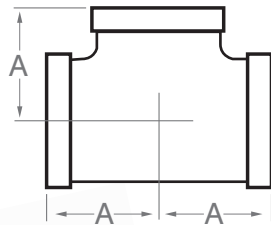
SDT-200 ELBOW 45°

Nominal Size Inch	A Inch	Nominal Size Inch	A Inch
1/2	0.88	2 1/2	1.95
3/4	0.98	3	2.17
1	1.12	3 1/2	2.39
1 1/4	1.29	4	2.61
1 1/2	1.43	5	3.05
2	1.68	6	3.46

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Shield Threaded Fittings

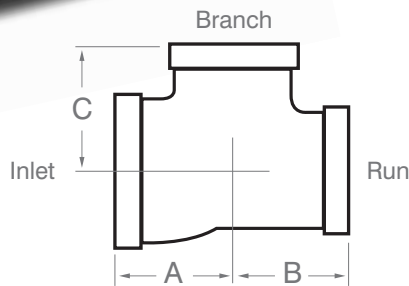
SDT-12 TEE



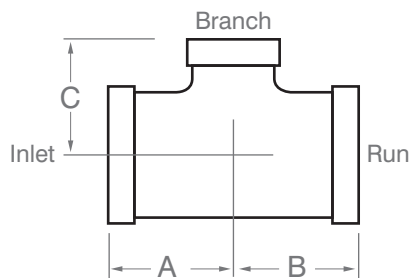
UL/FM: 1/2" to 4"



SDT-53 REDUCING TEE



UL/FM: 3/4" to 2-1/2"



UL/FM: 3/4" to 3"

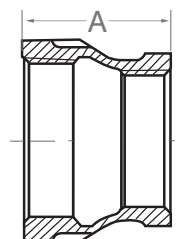
Nominal Size Inch	A Inch	Nominal Size Inch	A Inch
1/2	1.12	2 1/2	2.70
3/4	1.31	3	3.08
1	1.50	3 1/2	3.42
1 1/4	1.75	4	3.79
1 1/2	1.95	5	4.50
2	2.25	6	5.13

Nominal Size			A	B	C
Inlet Inch	Run Inch	Branch Inch	Inch	Inch	Inch
3/4	3/4	1/2	1.20	1.20	1.22
1	1	1/2	1.50	1.36	1.50
		3/4	1.26	1.20	1.36
		3/4	1.37	1.31	1.45
		1	1.50	1.45	1.50
		1/2	1.26	1.26	1.36
1 1/4	1	3/4	1.37	1.37	1.45
		1/2	1.34	1.26	1.53
		3/4	1.45	1.37	1.62
		1	1.58	1.50	1.67
		1 1/4	1.75	1.67	1.75
	1 1/4	1/2	1.34	1.34	1.53
		3/4	1.45	1.45	1.62
		1	1.58	1.58	1.67
		1/2	1.44	1.31	1.69
		3/4	1.50	1.37	1.75
1 1/2	1	1	1.65	1.50	1.80
		1 1/2	1.94	1.80	1.94
		1/2	1.41	1.34	1.66
		3/4	1.52	1.45	1.75
		1	1.65	1.58	1.80
	1 1/4	1/2	1.41	1.41	1.66
		3/4	1.52	1.52	1.75
		1	1.65	1.65	1.80
		1 1/4	1.82	1.82	1.88
		2	2.25	2.02	2.25
	1 1/2	2	2.25	2.10	2.25
		1/2	1.49	1.41	1.88
		3/4	1.60	1.52	1.97
		1	1.73	1.65	2.02
		1 1/2	2.02	1.94	2.16
2	2	2	2.25	2.16	2.25
		1/2	1.49	1.49	1.88
		3/4	1.60	1.60	1.97
		1	1.73	1.73	2.02
		1 1/4	1.90	1.90	2.10
	1 1/2	1 1/2	2.02	2.02	2.16
		3/4	1.74	1.60	2.32
		1/2	1.49	1.49	1.88
		3/4	1.60	1.60	1.97
		1	1.73	1.73	2.02
2 1/2	2	3/4	1.74	1.60	2.32

Note: Sizes available upto 6" x 6" x 2"

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Shield Threaded Fittings

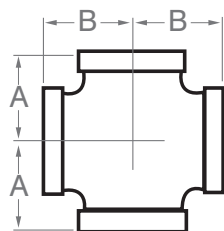


UL/FM: 1/2" to 1-1/2"

SDT-30 REDUCING COUPLING

Nominal Size Inch	A Inch	Nominal Size Inch	A Inch
3/4 x 1/2	1.52	1 1/2 x 1 1/4	2.18
1 x 1/2	1.67	2 x 1	2.53
1 x 3/4	1.67	2 x 1 1/4	2.53
1 1/4 x 3/4	1.93	2 x 1 1/2	2.53
1 1/4 x 1	1.93	2 1/2 x 2	2.68
1 1/2 x 1	2.18		

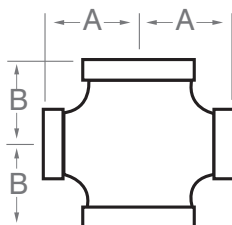
Note: Sizes are available up to 6"



UL/FM : 1" to 2"

SDT-13 CROSS

Nominal Size Inch	A Inch	B Inch
1	1.50	1.50
1 1/4	1.75	1.75
1 1/2	1.95	1.95
2	2.25	2.25
2 1/2	2.70	2.70
3	3.08	3.08
3 1/2	3.42	3.42
4	3.79	3.79
5	4.50	4.50
6	5.13	5.13



UL/FM : 1-1/4" to 2"

SDT-51 REDUCING CROSS

Nominal Size Inch	A Inch	B Inch
1 1/4 x 1 1/4 x 1 x 1	1.67	1.58
1 1/2 x 1 1/2 x 1 x 1	1.80	1.65
2 x 2 x 1 x 1	2.02	1.73
2 1/2 x 2 1/2 x 2 x 2	2.37	2.60
3 x 3 x 2 x 2	2.52	2.89

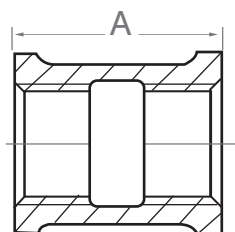
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Factory Mutual System



Shield Threaded Fittings

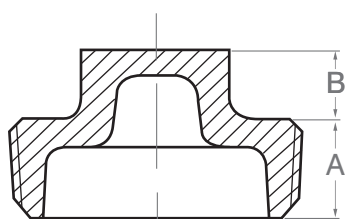


UL/FM : 1/2" to 2-1/2"

SDT-22 STRAIGHT COUPLING

Nominal Size Inch	A Inch	Nominal Size Inch	A Inch
1/2	1.34	2	2.53
3/4	1.52	2 1/2	2.68
1	1.67	3	3.18
1 1/4	1.93	4	3.69
1 1/2	2.18		

Note: Sizes are available up to 6"

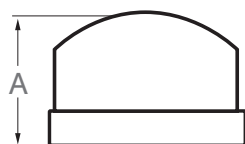


UL/FM : 1/2" to 2"

SDT-55 PLUG

Nominal Size Inch	A Inch	B Inch
1/2	0.56	0.38
3/4	0.63	0.44
1	0.75	0.50
1 1/4	0.80	0.56
1 1/2	0.83	0.62
2	0.88	0.58
2 1/2	1.07	0.74
3	1.13	0.80
3 1/2	1.18	0.86

Note: Sizes are available up to 6"



UL/FM : 1/2" to 2-1/2"

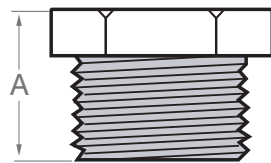
SDT-14 CAP

Nominal Size Inch	A Inch	Nominal Size Inch	A Inch
1/2	0.87	2	1.45
3/4	0.97	2 1/2	1.70
1	1.16	3	1.80
1 1/4	1.28	4	2.08
1 1/2	1.33	6	2.55

SHIELD reserves the right to change the contents without notice.

Shield Threaded Fittings

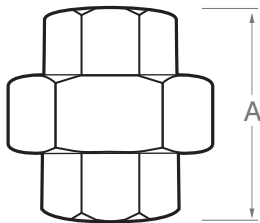
SDT-57 HEX BUSHING



UL/FM: 3/4" to 2"

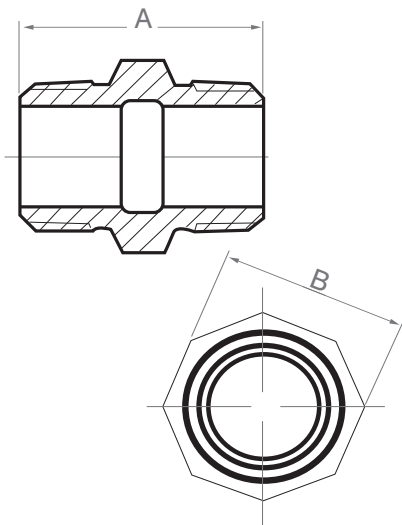
Nominal Size Inch	A Inch
1 x 1/2	1.06
1 x 3/4	1.06
1 1/4 x 1	1.18
1 1/2 x 1	1.26
1 1/2 x 1 1/4	1.26
2 x 1	1.34
2 x 1 1/4	1.34
2 x 1 1/2	1.34

SDT-59 UNION



UL/FM: 1" to 2"

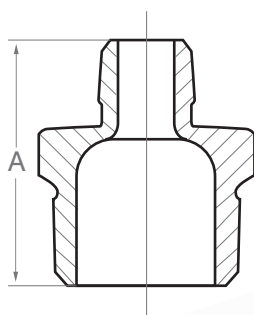
Nominal Size Inch	A Inch
1/2	1.72
3/4	1.94
1	2.06
1 1/4	2.26
1 1/2	2.41
2	2.75
2 1/2	3.22
3	3.50
4	3.85



SDT-11 HEX NIPPLE

Nominal Size Inch	A Inch	B Inch
1/2	1.57	0.98
3/4	1.77	1.18
1	2.05	1.45
1 1/4	2.20	1.81
1 1/2	2.28	2.05
2	2.56	2.52
2 1/2	2.83	3.15
3	3.15	3.70
4	3.62	4.65

SDT-11 1 HEX REDUCING NIPPLE



Nominal Size Inch	A mm
1/4 x 1/8	31.00
1 x 3/4	54.00
1 1/4 x 1/2	57.00
2 x 1 1/2	68.00
2 1/2 x 1	75.00
2 1/2 x 1 1/4	75.00
2 1/2 x 1 1/2	75.00
2 1/2 x 2	75.00
3 x 1 1/2	83.00
3 x 2	83.00
3 x 2 1/2	83.00

SHIELD reserves the right to change the contents without notice.



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.

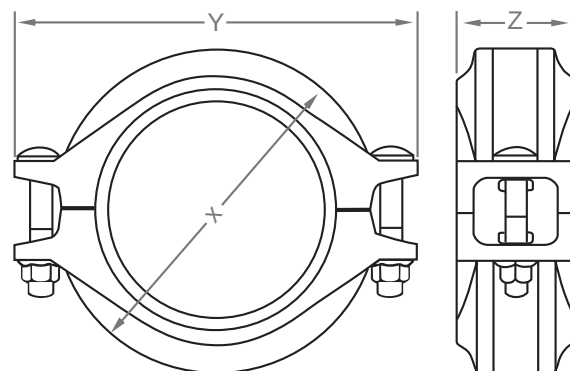
Gasket (C shaped)

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

Material	Temp Range	Colour	General Recommended Application
EPDM	-34°C to +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 to +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 to +177°C	Red Gasket	Dry heat and air without hydrocarbons up to +177°C and certain chemicals

Shield Grooved Coupling Gaskets must be lubricated on the lips and outside back prior to assembly using Shield lubricant or equivalent for a wet system. However for a dry system Shield recommends using a silicone based lubricant. Note: Petroleum based lubricants should NOT be used at all.

Shield Rigid Coupling



SDG-22 Standard

Nominal Size	Pipe O.D.	Maximum Working Pressure PSI	Dimensions			Bolt/Nut No. - Size
			X mm	Y mm	Z mm	
Inch	mm	PSI				mm
1	33.4	500	59	100	44	2 ³ / ₈ x 55
1 ¹ / ₄	42.2	500	66	105	45.05	2 ³ / ₈ x 55
1 ¹ / ₂	48.3	500	72	110	45.5	2 ³ / ₈ x 55
2	60.3	500	86	132.5	46.5	2 ³ / ₈ x 55
2 ¹ / ₂	73.0	500	99	154	46.5	2 ¹ / ₂ x 60
3 O.D.	76.1	500	102.5	152.5	46.5	2 ¹ / ₂ x 70
3	88.9	500	117	168.5	46.5	2 ¹ / ₂ x 75
4	114.3	500	148	200	52.5	2 ¹ / ₂ x 75
5 ¹ / ₂ O.D.	139.7	500	172	235	52.5	2 ⁵ / ₈ x 85
5	141.3	500	172	231.5	52.5	2 ⁵ / ₈ x 85
6 ¹ / ₂ O.D.	165.1	500	199.5	267.5	53.5	2 ⁵ / ₈ x 85
6	168.3	500	203	271.5	53.5	2 ⁵ / ₈ x 85
8	219.1	450	246.5	350	61.5	2 ³ / ₄ x 115
10	273.0	300	333	428	63	2 ³ / ₄ x 115
12	323.9	300	390	470	63	2 ⁷ / ₈ x 140
14	355.6	300	415	510	72	3 ⁷ / ₈ x 140
16	406.4	300	468	575	72	3 ⁷ / ₈ x 140
18	426.0	225	490	592	72	4 ⁷ / ₈ x 140
20	529.0	225	595	700	76	4 ⁷ / ₈ x 140

SHIELD reserves the right to change the contents without notice • Refer to UL/FM approvals for details.

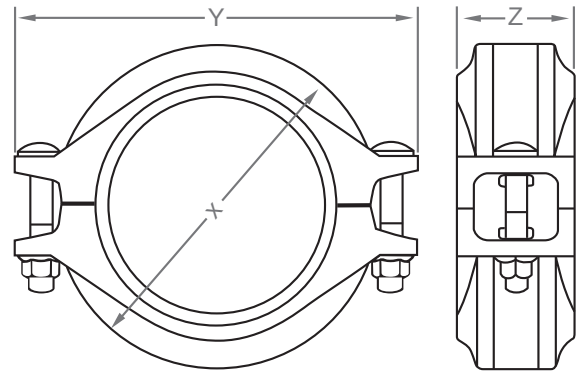


Shield Rigid Coupling provides rigid joints to prevent linear movement of pipe assembly. With a unique ends locked design, SDG-22 coupling can be used when the application or design calls for rigid installations.



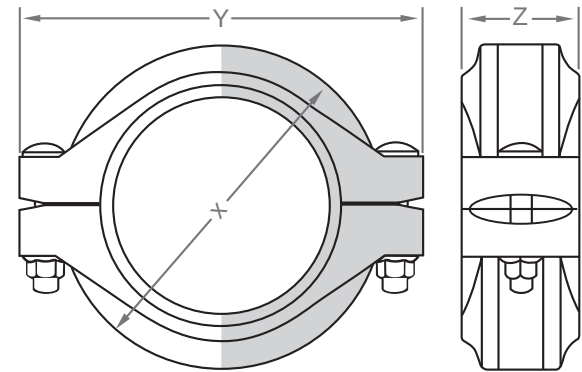
Shield Light Rigid Coupling

SDG-20



Nominal Size	Pipe O.D.	Maximum Working Pressure PSI	Dimensions			Bolt/Nut No. - Size
			X mm	Y mm	Z mm	
2	60.3	300	87.2	122.5	44	2 ³ / ₈ x 2 ¹ / ₈
2 ¹ / ₂	73.0	300	96.8	138.5	44	2 ³ / ₈ x 2 ¹ / ₈
3 O.D.	76.1	300	100.8	141.5	44	2 ³ / ₈ x 2 ¹ / ₈
3	88.9	300	113.5	157.5	44	2 ³ / ₈ x 2 ³ / ₄
4	114.3	300	142.0	185.5	48	2 ³ / ₈ x 2 ³ / ₄
5 ¹ / ₂ O.D.	139.7	300	168.5	225.5	50	2 ¹ / ₂ x 3
6 ¹ / ₂ O.D.	165.1	300	196.0	252.7	50	2 ¹ / ₂ x 3
6	168.3	300	198.8	256.5	50	2 ¹ / ₂ x 3
8	219.1	300	256.0	325.0	58	2 ¹ / ₂ x 75

Shield Flexible Couplings



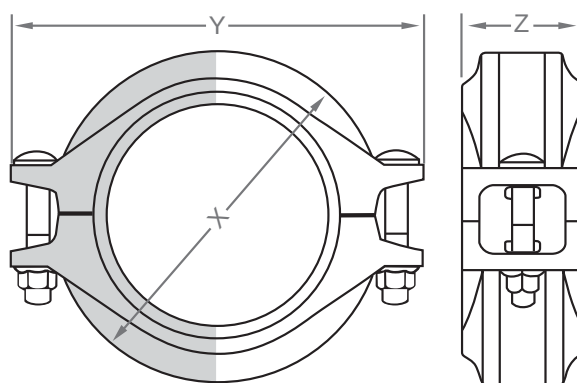
SDG-27 Heavy Duty

Nominal Size	Pipe O.D.	Maximum Working Pressure PSI	Dimensions			Bolt/Nut No. - Size
			X mm	Y mm	Z mm	
2	60.3	750	91	133	46.5	2 ¹ / ₂ x 75
2 ¹ / ₂	73.0	750	104	165	46.5	2 ¹ / ₂ x 75
3 O.D.	76.1	750	107	165	46.5	2 ¹ / ₂ x 75
3	88.9	750	122	171	47.0	2 ¹ / ₂ x 75
4	114.3	750	151.5	213	52.0	2 ⁵ / ₈ x 85
5	141.3	750	182	241	52.0	2 ³ / ₄ x 115
6 ¹ / ₂ O.D.	165.1	750	208	281	52.0	2 ³ / ₄ x 115
6	168.3	750	210	286	52.0	2 ³ / ₄ x 115
8	219.1	750	268	354	62.0	2 ⁷ / ₈ x 140

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

SHIELD reserves the right to change the contents without notice. Refer to UL/FM approvals for details.

Shield Flexible Couplings



SDG-25 Standard

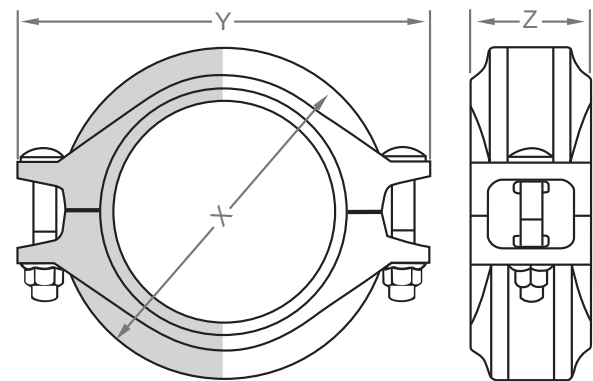
Shield Flexible Couplings allow controlled angular movement of the pipe to assist alignment and installation. The advantage of flexibility must be considered in the design for hanger and support spacing.

Nominal Size	Pipe O.D.	Maximum Working Pressure PSI	Dimensions			Bolt/Nut No. - Size
			X mm	Y mm	Z mm	
1 1/4	42.2	500	66.5	103.0	45.5	2 3/8 x 55
1 1/2	48.3	500	72.0	108.0	45.0	2 3/8 x 55
2	60.3	500	84	129.0	45.0	2 3/8 x 55
2 1/2	73.0	500	101	142.0	45.5	2 3/8 x 55
3 O.D	76.1	500	102	147.0	45.5	2 3/8 x 55
3	88.9	500	116.0	163.5	45.5	2 1/2 x 75
4	114.3	500	145	197.0	50.0	2 1/2 x 75
5 1/2 O.D	139.7	500	169	237.5	51.0	2 5/8 x 80
5	141.3	500	169	230.0	51.0	2 5/8 x 80
6 1/2 O.D	165.1	500	196.5	261.5	51.0	2 5/8 x 85
6	168.3	500	201	268.0	51.0	2 5/8 x 85
8	219.1	450	260.5	349.5	58.5	2 3/4 x 115
10	273.0	300	318	395.0	65.0	2 3/4 x 120
12	323.9	300	368.7	458.2	65.0	2 7/8 x 140
14	355.6	225	428	520.0	72.0	3 7/8 x 140
16	406.4	225	476	570.0	72.0	3 7/8 x 140
18	457.2	300	505	598.0	78.0	3 7/8 x 140
20	508.0	300	550	648.0	78.0	4 7/8 x 140
24	610.0	300	660	760.0	78.0	4 -1 x 140

SHIELD reserves the right to change the contents without notice • Refer to UL/FM approvals for details.



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.

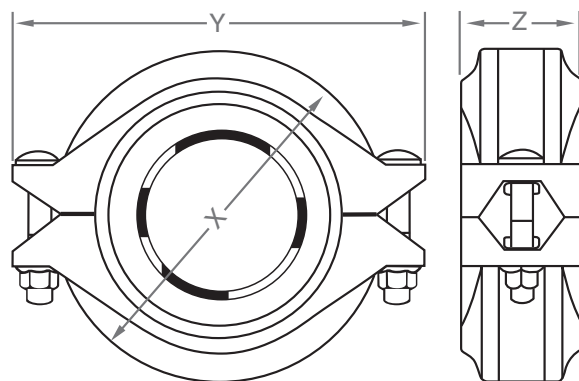
Nominal Size	Pipe O.D.	Maximum Working Pressure PSI	Dimensions			Bolt/Nut No. - Size
			X mm	Y mm	Z mm	
2	60.3	300	85.0	124	46.0	2 ³ / ₈ x 55
2½	73.0	300	99.0	137	46.0	2 ³ / ₈ x 55
3 O.D	76.1	300	102	140	46.0	2 ³ / ₈ x 55
3	88.9	300	115.5	153	46.0	2 ³ / ₈ x 70
4	114.3	300	148	184	50.5	2 ³ / ₈ x 70
5½ O.D	139.7	300	173	225	50.5	2½ x 75
6½ O.D	165.1	300	199.5	248	50.5	2½ x 80
6	168.3	300	203	252	50.5	2½ x 80
8	219.1	300	261	399	61.5	2½ x 95

SHIELD reserves the right to change the contents without notice • Refer to UL/FM approvals for details.





Shield Reducing Coupling



SDG-30

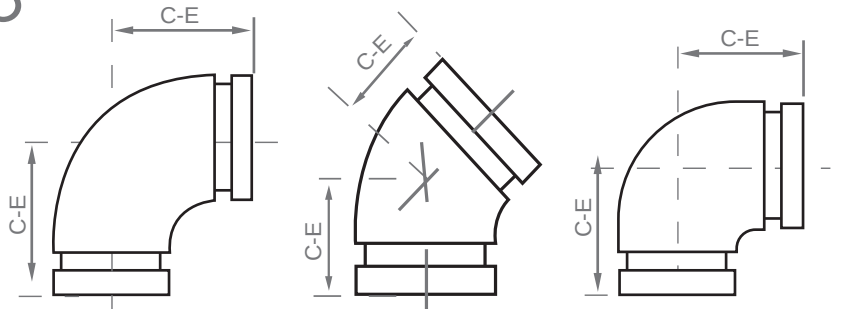
Shield SDG-30 Reducing Coupling allows in line reduction of the pipe diameter on a piping run. SDG-30 can also replace the need for two couplings as well as reducing fittings.

Nominal Size	Pipe O.D.	Maximum Working Pressure PSI	Dimensions			Bolt/Nut No. - Size
			X mm	Y mm	Z mm	
Inch	mm					mm
2 x 1½	60.3 x 48.3	300	85	122	46.7	2³⁄₈ x 55
2½ x 2	73.0 x 60.3	300	101	138	46.7	2³⁄₈ x 55
3 O.D x 2	76.1 x 60.3	300	102.5	144	46.7	2³⁄₈ x 55
3 x 2	88.9 x 60.3	300	117.5	168	46.7	2½ x 55
3 x 2½	88.9 x 73.0	300	117.5	168	46.7	2½ x 55
3 x 3 O.D	88.9 x 76.1	300	117.5	168	46.7	2½ x 55
4 x 2	114.3 x 60.3	300	147.8	198	52.4	2½ x 55
4 x 2½	114.3 x 73.0	300	147.8	198	52.4	2½ x 55
4 x 3 O.D	114.3 x 76.1	300	147.8	198	52.4	2½ x 55
4 x 3	114.3 x 88.9	300	147.8	198	52.4	2½ x 55
5½ O.D x 4	139.7 x 114.3	300	172	250	52.4	2⁵⁄₈ x 85
6½ O.D x 3	165.1 x 88.9	300	199.6	269	53.4	2⁵⁄₈ x 85
6½ O.D x 4	165.1 x 114.3	300	199.6	269	53.4	2⁵⁄₈ x 85
6 x 3	168.3 x 88.9	300	202.8	275	53.4	2⁵⁄₈ x 85
6 x 4	168.3 x 114.3	300	202.8	275	53.4	2⁵⁄₈ x 85
8 x 6½ O.D	219.1 x 165.1	300	260	334	61.7	2¾ x 115
8 x 6	219.1 x 168.3	300	260	334	61.7	2¾ x 115

SHIELD reserves the right to change the contents without notice • Refer to UL/FM approvals for details.



Shield 90° & 45° Elbows

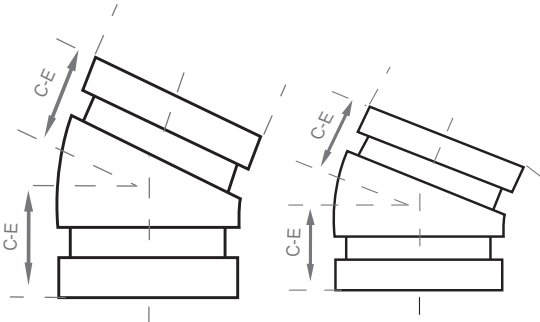


90° SDG-100, 45° SDG-200, 90° SDG-105

Nominal Size	Pipe O.D.	Maximum Working Pressure	90° SDG-100 Dimensions	45° SDG-200 Dimensions	90° SDG-105 Dimensions	
			C-E	C-E	Maximum Working Pressure	C-E
Inch	mm	PSI	mm	mm	PSI	mm
1	33.4	500	57	38.0		
1 1/4	42.2	500	70	44.0		
1 1/2	48.3	500	70	44.0		
2	60.3	500	82.50	51.0	300	70.00
2 1/2	73.0	500	95	57.0	300	76.00
3 O.D	76.1	500	101.50	57.0	300	76.00
3	88.9	500	108	64.0	300	85.50
4	114.3	500	127	76.0	300	101.00
5 1/2 O.D	139.7	500	140	82.5	300	101.00
5	141.3	500	140	83.0	300	124.00
6 1/2 O.D	165.1	500	165	89.0	300	140.00
6	168.3	500	165	89.0	300	140.00
8	219.1	500	197	108.0	300	175.00
10	273.0	500	229	120.0		
12	323.9	500	254	133.0		
14	355.6	300	279	152.0		
16	406.4	300	305	184.0		
18	457.2	300	394	203.0		

SHIELD reserves the right to change the contents without notice • Refer to UL/FM approvals for details.

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
			C-E	C-E
Inch	mm	PSI	mm	mm
2	60.3	500	51	35
2½	73.0	500	51	38
3 O.D	76.1	500	51	38
3	88.9	500	57	38
4	114.3	500	73	44
5	141.3	500	73	51
6	168.3	500	79	51
6½ O.D	165.1	500	79	51
8	219.1	500	98	51

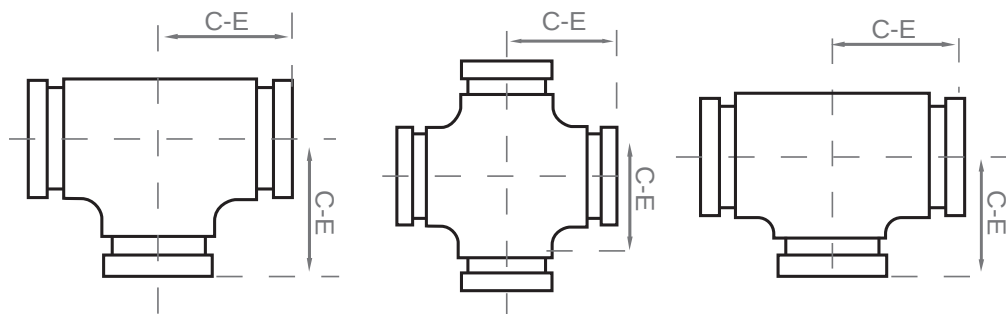
SHIELD reserves the right to change the contents without notice.



Factory
Mutual
System



Shield Tees



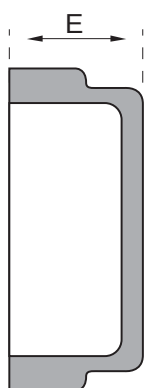
SDG-12 Tee, SDG-13 Cross Tee, SDG-102 Tee

Nominal Size	Pipe O.D.	Maximum Working Pressure	SDG-12 Tee	SDG-13 Cross Tee	SDG-102 Tee (Short)	
			Dimensions	Dimensions	Maximum Working Pressure	C-E
Inch	mm	PSI	mm	mm	PSI	mm
1	33.4	500	57	57		
1 1/4	42.2	500	70	70		
1 1/2	48.3	500	70	70		
2	60.3	500	82.5	82.5	300	69.8
2 1/2	73.0	500	95	95	300	76.1
3 O.D	76.1	500	101.5	101.5	300	76.1
3	88.9	500	108	108	300	85.87
4	114.3	500	127	127	300	101.7
5 1/2 O.D	139.7	500	140	139.5	300	124.0
5	141.3	500	140	139.5	300	124.0
6 1/2 O.D	165.1	500	165	165	300	140.0
6	168.3	500	165	165	300	140.0
8	219.1	500	197	197	300	174.7
10	273.0	500	229	229		
12	323.9	500	254	254		
14	355.6	300	279			
16	406.4	300	305			

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

Shield Cap

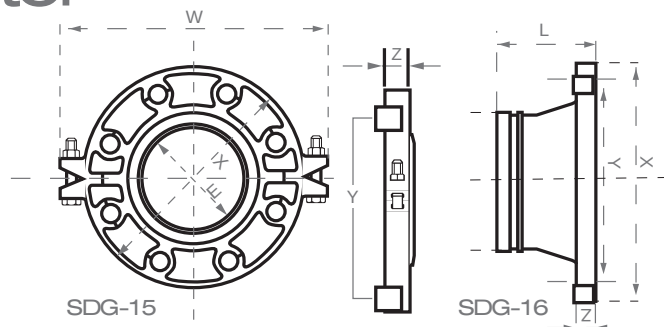
SDG-14



Nominal Size	Pipe O.D.	Maximum Working Pressure	Cap Dimension
Inch	mm	PSI/Mpa	E mm
1 1/4	42.2	500	25.50
1 1/2	48.3	500	25.50
2	60.3	500	25.50
2 1/2	73.0	500	25.50
3 O.D	76.1	500	25.50
3	88.9	500	25.50
4	114.3	500	27
5 1/2 O.D	139.7	500	27
5	141.3	500	27
6 1/2 O.D	165.1	500	27
6	168.3	500	27
8	219.1	500	30.2
10	273.0	500	32
12	323.9	500	32

• SHIELD reserves the right to change the contents without notice • Refer to UL/FM approvals for details.

Shield Grooved & Adaptor Flange



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 No. - Size	L	X	Y	Z	Bolt / Nut No. - Size
Inch	mm	PSI	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1 1/2	48.3	300	195	19	150	110	45.4	2-M10x50 4-M16	60.3	150	110	16	4-M16
2	60.3	300	220	19	165	125	57.5	2-M10x50 4-M16	65	165	125	16	4-M16
3 O.D.	76.1	300	235	19	185	145	72.7	2-M10x50 4-M16	65	185	145	16	4-M16
3	88.9	300	252	19	200	160	85.5	2-M10x50 8-M16	65	200	160	16	8-M16
4	114.3	300	277	19	229	180	110.5	2-M10x55 8-M16	70	220	180	16	8-M16
5 1/2 O.D.	139.7	300	318	23	254	210	135.5	2-M12x65 8-M16	70	250	210	18	8-M16
6 1/2 O.D.	165.1	300	346	23	280	240	160.8	2-M12x65 8-M20	70	285	240	18	8-M20
6	168.3	300	346	24	280	240	164.3	2-M12x65 8-M20	70	285	240	18	8-M20
8	219.1	300	414	30	340	295	214.9	2 3/8 x 70 12-M20	80	340	295	19	12-M20
10	273.0	300	481	30	406	355	268.9	2 3/8 x 70 12-M24	85	406	355	21	12-M24
12	323.9	300	530	30	483	410	318.9	2 3/8 x 70 12-M24	90	460	410	25	12-M24

ANSI 125/150

Nominal Size	Pipe O.D.	Max. Working Pressure	Grooved Flange Dimensions					Adaptor Flange Dimensions				
			X	Z	Y	E	Bolt / Nut No. - Size	L	X	Y	Z	Bolt / Nut No. - Size
Inch	mm	PSI	mm	mm	mm	mm	Inch	mm	mm	mm	mm	Inch
2 1/2	73.0	300	178	19	140	69.8	2-M10x50 4 - 5/8	65	185	139.7	16	4 - 5/8
3	88.9	300	192	19	152	85.5	2-M10x50 4 - 5/8	65	200	152.4	16	8 - 5/8
4	114.3	300	229	19	191	110.5	2-M10x55 8 - 5/8	70	229	190.5	16	8 - 5/8
5	141.3	300	250	22	216	137.4	2-M12x65 8 - 3/4	70	250	216.0	18	8 - 3/4
6	168.3	300	285	22	241	164.3	2-M12x65 8 - 3/4	70	282	241.3	18	8 - 3/4
8	219.1	300	341	30	298	214.9	2 3/8 x 70 8 - 3/4	80	340	298.5	19	8 - 3/4
10	273.0	300	406	30	362	268.9	2 3/8 x 70 12 - 7/8	100	406	361.9	22	12 - 3/4
12	323.9	300	482	30	432	318.9	2 3/8 x 70 12 - 7/8	102	483	431.8	22	12 - 3/4

Class 300

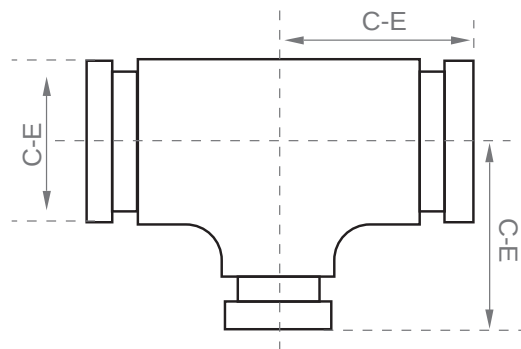
Size		Grooved Flange Dimensions					
		O.D. of Flange	I.D.	Thickness	PCD	O.D. Inc. Bolt	Bolt Size
Inch	mm	X mm	E mm	Z mm	Y mm	W mm	Inch
2 1/2	73.0	190	69.60	19	149.2	244.0	8 - 3/4
3	88.9	210	84.60	19	168.3	274.0	8 - 3/4
4	114.3	255	110.20	19	200.0	310.0	8 - 3/4
6	168.3	320	164.20	24	269.9	388.0	12 - 3/4
8	219.1	380	214.93	30	330.2	470.4	12 - 7/8

SHIELD reserves the right to change the contents without notice • Refer to UL/FM approvals for details.



Shield Grooved Reducing Tee

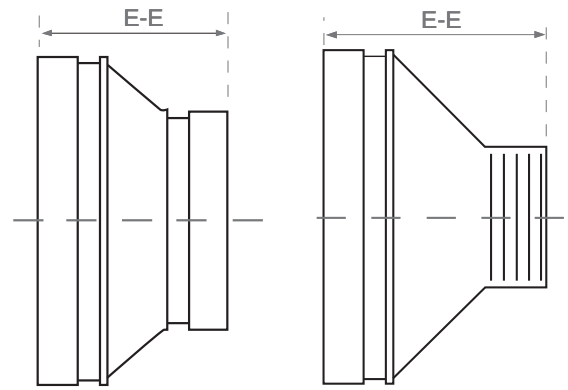
SDG-53



Nominal Size Inch	Pipe O.D. mm	Maximum Working Pressure PSI	C-E mm
2 x 1	60.3 x 33.4	500	82.5
2 x 1½	60.3 x 48.3	500	82.5
3 O.D x 2	76.1 x 60.3	500	101.5
3 x 1	76.1 x 33.4	500	108
3 x 2	88.9 x 60.3	500	108
3 x 3 O.D	88.9 x 76.1	500	108
4 x 1	114.3 x 33.4	500	127
4 x 2	114.3 x 60.3	500	127
4 x 3 O.D	114.3 x 76.1	500	127
4 x 3	114.3 x 88.9	500	127
5½ O.D x 2	139.7 x 60.3	500	139.5
5½ O.D x 3 O.D	139.7 x 76.1	500	139.5
5½ O.D x 3	139.7 x 88.9	500	139.5
5½ O.D x 4	139.7 x 114.3	500	139.5
5 x 2	141.3 x 60.3	500	139.5
6 ½ O.D x 2	165.1 x 60.3	500	165
6 ½ O.D x 3 O.D	165.1 x 76.1	500	165
6 ½ O.D x 3	165.1 x 88.9	500	165
6 ½ O.D x 4	165.1 x 114.3	500	165
6½ O.D x 51/2 O.D	165.1 x 139.7	500	165
6 x 2	168.3 x 60.3	500	165
6 x 2½	168.3 x 73.0	500	165
6 x 4	168.3 x 114.3	500	165
6 x 5	168.3 x 141.3	500	165
8 x 2	219.1 x 60.3	500	197
8 x 3 O.D	219.1 x 76.1	500	197
8 x 3	219.1 x 88.9	500	197
8 x 4	219.1 x 114.3	500	197
8 x 5½ O.D	219.1 x 139.7	500	197
8 x 6½ O.D	219.1 x 165.1	500	197
8 x 6	219.1 x 168.3	500	197
10 x 6½ O.D	273.0 x 165.1	500	229
10 x 8	273.0 x 219.1	500	229
12 x 8	323.9 x 219.1	500	254
12 x 10	323.9 x 273.0	500	254

SHIELD reserves the right to change the contents without notice • Please refer to UL/FM approvals for details.
Reducing tee SDG-55 threaded outlet are also available, contact Shield for details.

Shield Concentric Reducer



Grooved SDG-35 & Threaded SDG-37

Nominal Size	Pipe O.D.	Maximum Working Pressure	SDG-35 Grooved Dimensions E-E	SDG-37 Threaded Dimensions E-E
Inch	mm	PSI	mm	mm
2 x 1 ¹ / ₄	60.3 x 42.2	500	64	64
2 x 1 ¹ / ₂	60.3 x 48.3	500	64	64
2 ¹ / ₂ x 2	73.0 x 60.3	500	64	64
3 O.D x 2	76.1 x 60.3	500	64	64
3 x 1	88.9 x 33.4	500	64	64
3 x 1 ¹ / ₂	88.9 x 48.3	500	64	64
3 x 2	88.9 x 60.3	500	64	64
3 x 2 ¹ / ₂	88.9 x 73.0	500	64	64
3 x 3 O.D	88.9 x 76.1	500	64	64
4 x 1 ¹ / ₄	114.3 x 42.2	500	76	76
4 x 1 ¹ / ₂	114.3 x 48.3	500	76	76
4 x 2	114.3 x 60.3	500	76	76
4 x 2 ¹ / ₂	114.3 x 73.0	500	76	76
4 x 3 O.D	114.3 x 76.1	500	76	76
4 x 3	114.3 x 88.9	500	76	76
5 ¹ / ₂ O.D x 2	139.7 x 60.3	500	102	102
5 ¹ / ₂ O.D x 3 O.D	139.7 x 76.1	500	102	102
5 ¹ / ₂ O.D x 3	139.7 x 88.9	500	102	102
5 ¹ / ₂ O.D x 4	139.7 x 114.3	500	102	102
6 ¹ / ₂ O.D x 2	165.1 x 60.3	500	102	102
6 ¹ / ₂ O.D x 3 O.D	165.1 x 76.1	500	102	102
6 ¹ / ₂ O.D x 3	165.1 x 88.9	500	102	102
6 ¹ / ₂ O.D x 4	165.1 x 114.3	500	102	102
6 ¹ / ₂ O.D x 5 ¹ / ₂ O.D	165.1 x 139.7	500	102	102

SHIELD reserves the right to change the contents without notice • Please refer to UL/FM approvals for details.



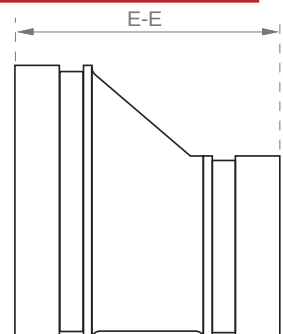
Shield Concentric Reducer (Continued)



Grooved SDG-35 & Threaded SDG-37

Nominal Size	Pipe O.D.	Maximum Working Pressure	SDG-35 Grooved Dimensions	SDG-37 Threaded Dimensions
			E-E	E-E
Inch	mm	PSI	mm	mm
6 x 2	168.3 x 60.3	500	102	102
6 x 2½	168.3 x 73.0	500	102	102
6 x 3 O.D.	168.3 x 76.1	500	102	102
6 x 3	168.3 x 88.9	500	102	102
6 x 4	168.3 x 114.3	500	102	102
6 x 5½ O.D.	168.3 x 139.7	500	102	102
6 x 5	168.3 x 141.3	500	102	102
8 x 2½	219.1 x 73.0	500	127	127
8 x 3	219.1 x 88.9	500	127	127
8 x 4	219.1 x 114.3	500	127	127
8 x 5½ O.D.	219.1 x 139.7	500	127	127
8 x 5	219.1 x 141.3	500	127	127
8 x 6½ O.D.	219.1 x 165.1	500	127	127
8 x 6	219.1 x 168.3	500	127	127
10 x 6½ O.D.	373.0 x 165.1	500	152	152
10 x 8	273.0 x 219.1	500	152	152
12 x 8	323.9 x 219.1	500	178	178
12 x 10	323.9 x 273.0	500	178	178
16 x 12	406.4 x 323.9	300	229	229
16 x 14	406.4 x 355.6	300	229	229
18 x 14	457.2 x 355.6	300	241	241
18 x 16	457.2 x 406.4	300	241	241

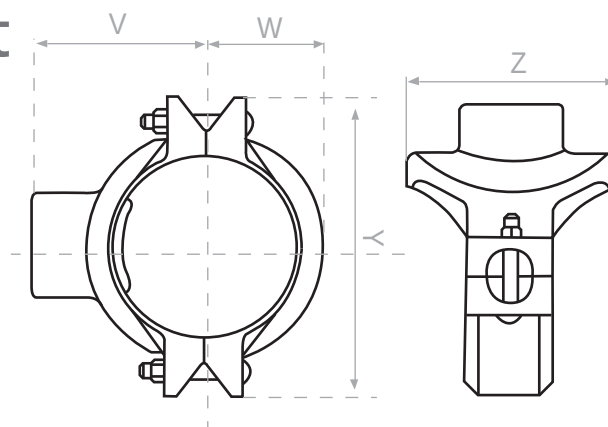
Shield Grooved Eccentric Reducer



Grooved SDG-33

Nominal Size Grooved x Grooved	Pipe O.D.	Maximum Working Pressure	SDG-33 Grooved Dimensions
			E-E
Inch	mm	PSI	mm
4 x 3 O.D.	114.3 x 76.1	500	102
4 x 3	114.3 x 88.9	500	102
5½ O.D x 4	139.7 x 114.3	500	127
6½ O.D x 3	165.1 x 88.9	500	140
6½ O.D x 4	165.1 x 114.3	500	140
6½ O.D x 5½ O.D	165.1 x 139.7	500	140
8 x 4	219.1 x 114.3	500	215

Shield Threaded Outlet Mechanical Tee



SDG-42

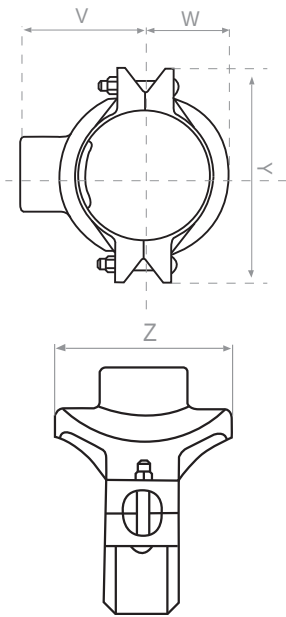
Shield Mechanical
Tees allow a direct
branch connection
to be made on
a pipe run where
sufficient space
allows a hole
to be cut.
Material: Ductile
Iron ASTM A536.
Gasket material
EPDM. Threads are
available to BSPT
or NPT and can be
supplied in red
coating or hot
dipped galvanized.

Nominal Size Run x Branch Inch	Pipe O.D. mm	Maximum Working Pressure PSI	Hole Dia +1.6 mm	Dimensions				Bolt Size mm
				Y mm	Z mm	V mm	W mm	
2 x 1	60.3 x 33.4	300	38	116	68	60	39	3/8 x 55
2 x 1 1/4	60.3 x 42.2	300	45	116	76	62	39	3/8 x 55
2 x 1 1/2	60.3 x 48.3	300	45	116	76	62	39	3/8 x 55
2 1/2 x 3/4	73.0 x 26.9	300	38	144	70	69	49	1/2 x 60
2 1/2 x 1	73.0 x 33.4	300	38	144	70	69	49	1/2 x 60
2 1/2 x 1 1/4	73.0 x 42.2	300	51	144	84.5	73	49	1/2 x 60
2 1/2 x 1 1/2	73.0 x 48.3	300	51	144	84.5	73	49	1/2 x 60
3 O.D x 1	76.1 x 33.4	300	38	144	72.0	77.5	46.5	1/2 x 75
3 O.D x 1 1/4	76.1 x 42.2	300	51	144	84.5	77.5	46.5	1/2 x 75
3 O.D x 1 1/2	76.1 x 48.3	300	51	144	90.5	79.5	46.5	1/2 x 75
3 x 1	88.9 x 33.4	300	38	160	73.5	80	53.5	1/2 x 75
3 x 1 1/4	88.9 x 42.2	300	51	160	85.5	80	53.5	1/2 x 75
3 x 1 1/2	88.9 x 48.3	300	51	160	90	80	53.5	1/2 x 75
3 x 2	88.9 x 60.3	300	64	160	104	80	53.5	1/2 x 75
4 x 1/2	114.3 x 21.3	300	42	186	78.4	93	68	1/2 x 75
4 x 3/4	114.3 x 26.9	300	42	186	89.0	93	68	1/2 x 75
4 x 1	114.3 x 33.4	300	38	186	89.0	93	68	1/2 x 75
4 x 1 1/4	114.3 x 42.2	300	51	186	89.0	95	68	1/2 x 75
4 x 1 1/2	114.3 x 48.3	300	51	186	104.4	97	68	1/2 x 75
4 x 2	114.3 x 60.3	300	64	186	104.4	120	68	1/2 x 75
4 x 2 1/2	114.3 x 73.0	300	70	186	124	100	68	1/2 x 75
4 x 3	114.3 x 88.9	300	89	208	96.5	100	68	1/2 x 75
5 1/2 O.D x 1	139.7 x 33.4	300	51	226	95	110	81	5/8 x 85
5 1/2 O.D x 1 1/4	139.7 x 42.2	300	51	226	95	114	81	5/8 x 85
5 1/2 O.D x 1 1/2	139.7 x 48.3	300	51	226	95	112	81	5/8 x 85
5 1/2 O.D x 2	139.7 x 60.3	300	70	226	114	114	81	5/8 x 85
5 1/2 O.D x 3 O.D	139.7 x 76.1	300	70	226	114	119	81	5/8 x 85
5 1/2 O.D x 3	139.7 x 88.9	300	89	226	136	122	81	5/8 x 85
5 x 1 1/4	141.3 x 42.2	300	51	226	98	110	81	5/8 x 85
6 1/2 O.D x 1/2	165.1 x 21.3	300	42	242	80.5	110	95	5/8 x 110
6 1/2 O.D x 3/4	165.1 x 26.9	300	42	242	80.5	110	95	5/8 x 110
6 1/2 O.D x 1	165.1 x 33.4	300	38	242	78.0	118	95	5/8 x 110
6 1/2 O.D x 1 1/4	165.1 x 42.2	300	51	242	93.0	118	95	5/8 x 110
6 1/2 O.D x 1 1/2	165.1 x 48.3	300	51	242	93.0	118	95	5/8 x 110
6 1/2 O.D x 2	165.1 x 60.3	300	64	242	112	128.5	95	5/8 x 110
6 1/2 O.D x 3 O.D	165.1 x 76.1	300	70	242	112	128	95	5/8 x 110

SHIELD reserves the right to change the contents without notice.



SDG-42 (Continued)



Nominal Size Run x Branch Inch	Pipe O.D. mm	Maximum Working Pressure PSI	Hole Dia +1.6 mm	Dimensions				Bolt Size mm
				Y mm	Z mm	V mm	W mm	
6 1/2 O.D x 3	165.1 x 88.9	300	89	242	132	128.5	95	5/8 x 110
6 1/2 O.D x 4	165.1 x 114.3	300	114	242	157	141	95	5/8 x 110
6 x 1 1/4	168.3 x 42.4	300	51	240	92.5	115	96.5	5/8 x 105
6 x 1 1/2	168.3 x 48.3	300	51	240	92.5	115	96.5	5/8 x 105
6 x 2	168.3 x 60.3	300	64	246	114	135	98.5	5/8 x 110
6 x 2 1/2	168.3 x 73.0	300	70	246	115	134	98.5	5/8 x 110
6 x 4	168.3 x 114.3	300	114	246	157	141	98.5	5/8 x 110
8 x 1	219.0 x 33.4	300	51	320	96.5	150	123	3/4 x 115
8 x 1 1/4	219.1 x 42.2	300	51	320	96.5	150	123	3/4 x 115
8 x 1 1/2	219.1 x 48.3	300	51	320	96.5	150	123	3/4 x 115
8 x 2	219.1 x 60.3	300	70	320	118	158.5	123	3/4 x 115
8 x 2 1/2	219.1 x 73.0	300	70	320	118	158.5	123	3/4 x 115
8 x 3	219.1 x 88.9	300	89	320	142	161	123	3/4 x 115
8 x 4	219.1 x 114.3	300	114	320	170	170	123	3/4 x 115

SHIELD reserves the right to change the contents without notice.

Factory Mutual System

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.

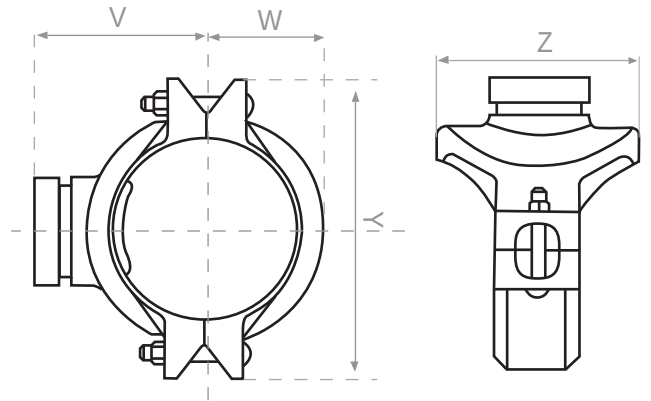
Bolt Size	Recommended Bolt Torque N - m
3/8"	40 ~ 60
1/2"	110 ~ 135
5/8"	135 ~ 175
3/4"	175 ~ 245
7/8"	245 ~ 325





Grooved Outlet Mechanical Tee

SDG-44

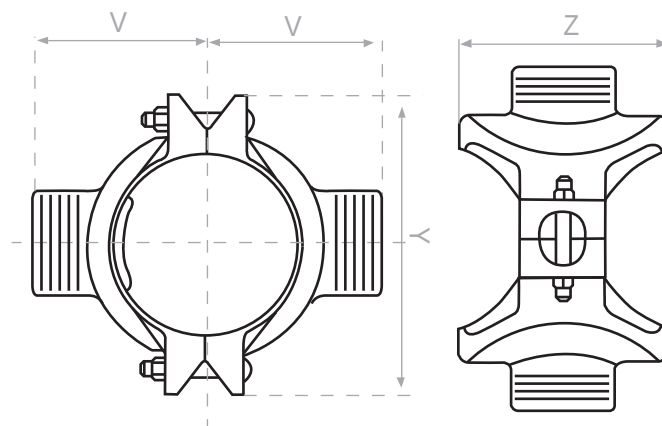


Nominal Size Run x Branch Inch	Pipe O.D. mm	Maximum Working Pressure PSI	Hole Dia +1.6 mm	Dimensions				Bolt Size mm
				Y mm	Z mm	V mm	W mm	
2 1/2 x 1 1/4	73.0 x 42.2	300	51	144	84.5	75	49	1/2 x 60
3 x 2	88.9 x 60.3	300	64	160	104	92	53.5	1/2 x 75
4 x 2	114.3 x 60.3	300	64	186	104.4	101.5	68	1/2 x 75
4 x 2 1/2	114.3 x 73.0	300	70	186	104.4	101.5	68	1/2 x 75
4 x 3 O.D	114.3 x 76.1	300	70	186	104.4	101.5	68	1/2 x 75
4 x 3	114.3 x 88.9	300	89	186	124	101.5	68	1/2 x 75
5 1/2 O.D x 2	139.7 x 60.3	300	70	226	114	119	81	5/8 x 85
5 1/2 O.D x 3 O.D	139.7 x 76.1	300	70	226	114	119	81	5/8 x 85
5 1/2 O.D x 3	139.7 x 88.9	300	89	226	136	122	81	5/8 x 85
6 1/2 O.D x 2	165.1 x 60.3	300	64	242	112	127.5	95	5/8 x 110
6 1/2 OD x 3 O.D	165.1 x 76.1	300	70	242	112	127.5	95	5/8 x 110
6 1/2 O.D x 3	165.1 x 88.9	300	89	242	142.6	141	95	5/8 x 110
6 1/2 O.D x 4	165.1 x 114.3	300	114	242	157	141	95	5/8 x 110
6 x 2	168.3 x 60.3	300	64	246	114	134	98.5	5/8 x 110
6 x 4	168.3 x 114.3	300	114	246	157	142	98.5	5/8 x 110
8 x 2	219.1 x 60.3	300	70	320	118	158	123	3/4 x 115
8 x 3 O.D	219.1 x 76.1	300	70	320	118	158	123	3/4 x 115
8 x 3	219.1 x 88.9	300	89	320	142	161	123	3/4 x 115
8 x 4	219.1 x 114.3	300	114	320	170	162	123	3/4 x 115

SHIELD reserves the right to change the contents without notice.



Shield Threaded Mechanical Cross



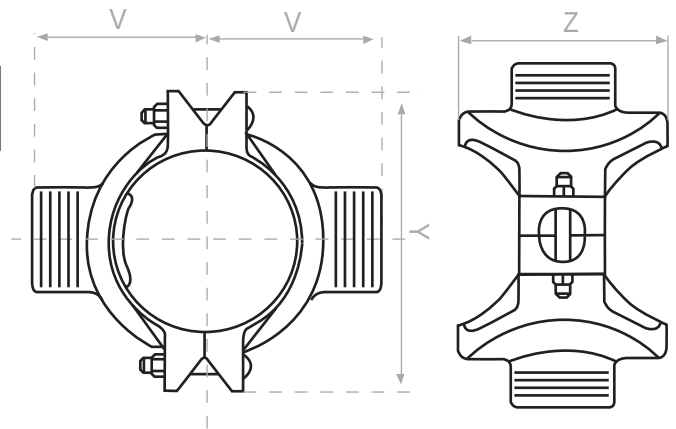
SDG-47



Nominal Size Run x Branch Inch	Pipe O.D. mm	Maximum Working Pressure PSI	Hole Dia +1.6 mm	Dimensions			Bolt Size mm
				Y mm	Z mm	V mm	
2 x 1	60.3 x 33.4	300	38	116	68	60	3/8 x 55
2 x 1 1/4	60.3 x 42.2	300	45	116	76	62	3/8 x 55
2 x 1 1/2	60.3 x 48.3	300	45	116	76	62	3/8 x 55
2 1/2 x 3/4	73.0 x 26.9	300	38	144	70	69	1/2 x 75
2 1/2 x 1	73.0 x 33.4	300	38	144	70	69	1/2 x 75
2 1/2 x 1 1/4	73.0 x 42.2	300	51	144	84.5	73	1/2 x 75
2 1/2 x 1 1/2	73.0 x 48.3	300	51	144	84.5	73	1/2 x 75
3 O.D x 1	76.1 x 33.4	300	38	144	72.0	77.5	1/2 x 75
3 O.D x 1 1/4	76.1 x 42.2	300	51	144	84.5	77.5	1/2 x 75
3 O.D x 1 1/2	76.1 x 48.3	300	51	144	90.5	79.5	1/2 x 75
3 x 1	88.9 x 33.4	300	51	160	73.5	80	1/2 x 75
3 x 1 1/4	88.9 x 42.2	300	51	160	85.5	80	1/2 x 75
3 x 1 1/2	88.9 x 48.3	300	51	160	90	80	1/2 x 75
3 x 2	88.9 x 60.3	300	64	160	104	80	1/2 x 75
4 x 1/2	114.3 x 21.3	300	42	186	78.4	93	1/2 x 75
4 x 3/4	114.3 x 26.9	300	42	186	78.4	93	1/2 x 75
4 x 1	114.3 x 33.4	300	38	186	89.0	93	1/2 x 75
4 x 1 1/4	114.3 x 42.2	300	51	186	87.9	95	1/2 x 75
4 x 1 1/2	114.3 x 48.3	300	51	186	89	97	1/2 x 75
4 x 2	114.3 x 60.3	300	64	186	104.4	100	1/2 x 75
4 x 2 1/2	114.3 x 73.0	300	70	186	104.4	100	1/2 x 75
4 x 3 O.D	114.3 x 76.1	300	70	186	104.4	100	1/2 x 75
4 x 3	114.3 x 88.9	300	89	186	124	100	1/2 x 75
5 1/2 O.D x 1	139.7 x 33.4	300	51	226	95	110	5/8 x 85
5 1/2 O.D x 1 1/4	139.7 x 42.2	300	51	226	95	114	5/8 x 85
5 1/2 O.D x 1 1/2	139.7 x 48.3	300	51	226	95	112	5/8 x 85
5 1/2 O.D x 2	139.7 x 60.3	300	70	226	114	114	5/8 x 85
5 1/2 O.D x 3 O.D	139.7 x 76.1	300	70	226	114	119	5/8 x 85
6 1/2 O.D x 3/4	165.1 x 26.9	300	42	242	80.5	120	5/8 x 110
6 1/2 O.D x 1	165.1 x 33.4	300	38	242	78	118	5/8 x 110
6 1/2 O.D x 1 1/4	165.1 x 42.2	300	51	242	93	118	5/8 x 110
6 1/2 O.D x 1 1/2	165.1 x 48.2	300	51	242	93	118	5/8 x 110
6 1/2 O.D x 2	165.1 x 60.3	300	64	242	112	128.5	5/8 x 110
6 1/2 O.D x 3 O.D	165.1 x 76.1	300	70	242	112	128.5	5/8 x 110
6 x 2	168.3 x 60.3	300	64	246	114	135	5/8 x 110
6 x 2 1/2	168.3 x 73.0	300	70	246	115	134	5/8 x 110
8 x 1	219.1 x 33.4	300	51	320	96.5	150	5/8 x 110
8 x 1 1/4	219.0 x 42.2	300	51	320	96.5	150	3/4 x 115
8 x 1 1/2	219.1 x 48.3	300	51	320	96.5	150	3/4 x 115
8 x 2	219.1x60.3	300	70	320	118	150	3/4 x 115
8 x 3 O.D	219.1x76.1	300	70	320	118	158.5	3/4 x 115

SHIELD reserves the right to change the contents without notice.

Shield Grooved Mechanical Cross



SDG-49

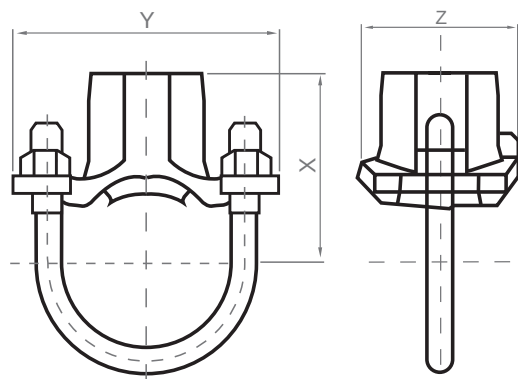
Nominal Size Run x Branch Inch	Pipe O.D. mm	Maximum Working Pressure PSI	Hole Dia +1.6 mm	Dimensions			Bolt Size mm
				Y mm	Z mm	V mm	
2 1/2 x 1 1/4	73.0 x 42.2	300	51	144	84.5	75	1/2 x 60
3 x 2	88.9 x 60.3	300	64	160	104	92	1/2 x 75
4 x 2	114.3 x 60.3	300	64	186	104.4	101.5	1/2 x 75
4 x 2 1/2	114.3 x 73.0	300	70	186	104.4	101.5	1/2 x 75
4 x 3 O.D	114.3 x 76.1	300	70	186	104.4	101.5	1/2 x 75
4 x 3	114.3 x 88.9	300	89	186	124	101.5	1/2 x 75
5 1/2 O.D x 2	139.7 x 60.3	300	70	226	114	119	5/8 x 85
5 1/2 O.D x 3 O.D	139.7 x 76.1	300	70	226	114	119	5/8 x 85
5 1/2 O.D x 3	139.7 x 88.9	300	89	226	136	122	5/8 x 85
6 1/2 O.D x 2	165.1 x 60.3	300	64	242	112	127.5	5/8 x 110
6 1/2 O.D x 3 O.D	165.1 x 76.1	300	70	242	112	127.5	5/8 x 110
6 1/2 O.D x 3	165.1 x 88.9	300	89	242	142.6	141	5/8 x 110
6 1/2 O.D x 4	165.1 x 114.3	300	114	242	157	141	5/8 x 110
6 x 2	168.3 x 60.3	300	64	246	114	134	5/8 x 110
6 x 4	168.3 x 114.3	300	114	246	157	142	5/8 x 110
8 x 2	219.1 x 60.3	300	70	320	118	158	3/4 x 115
8 x 3 O.D	219.1 x 76.1	300	70	320	118	158	3/4 x 115
8 x 3	219.1 x 88.9	300	89	320	142	161	3/4 x 115
8 x 4	219.1 x 114.3	300	114	320	170	162	3/4 x 115

SHIELD reserves the right to change the contents without notice.



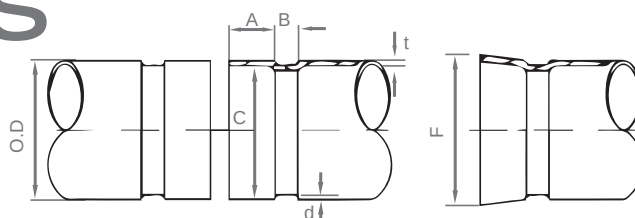
Shield U-Bolt Mechanical Tee

SDG-40



Nominal Size	Hole Dia +1.6 mm	Maximum Working Pressure PSI	Dimensions			U Bolt Size mm
			X mm	Y mm	Z mm	
1 1/4 x 1/2	30	300	53.0	89.0	56.0	3/8 x 60
1 1/4 x 3/4	30	300	53.0	89.0	56.0	3/8 x 60
1 1/4 x 1	30	300	56.0	89.0	56.0	3/8 x 60
1 1/2 x 1/2	30	300	55.0	89.0	56.0	3/8 x 67
1 1/2 x 3/4	30	300	55.0	89.0	56.0	3/8 x 67
1 1/2 x 1	30	300	58.0	89.0	56.0	3/8 x 67
2 x 1/2	30	300	64.0	98.0	56.0	3/8 x 82
2 x 3/4	30	300	64.0	98.0	56.0	3/8 x 82
2 x 1	30	300	67.0	98.0	56.0	3/8 x 82
2 1/2 x 1/2	30	300	69.0	111.0	56.0	3/8 x 95
2 1/2 x 3/4	30	300	69.0	111.0	56.0	3/8 x 95
2 1/2 x 1	30	300	72.0	111.0	56.0	3/8 x 95

Shield Groove Specifications



Nominal Size	Pipe Outside Diameter			Gasket Seat 'A'	Groove Diameter 'C'		Groove Width 'B'		Groove Depth 'd'	Minimum Pipe Wall Thickness 't'		Max 'F' Flare Dia.
	Tolerance				Maximum Inch	Tolerance (+)0.000	Roll Groove	Cut Groove		Roll Groove	Cut Groove	
	Actual Inch	(+) Inch	(-) Inch				(+/-)0.030 Inch	(+/-)0.030				
Inch												
1 1/4	1.660	0.016	0.016	0.625	1.535	-0.015	0.281	0.312	0.063	0.065	0.140	1.77
1 1/2	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
2 1/2	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 OD	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
5 1/2 OD	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

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

Shield Swivel Ring Hanger

Model : SD-HB

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.

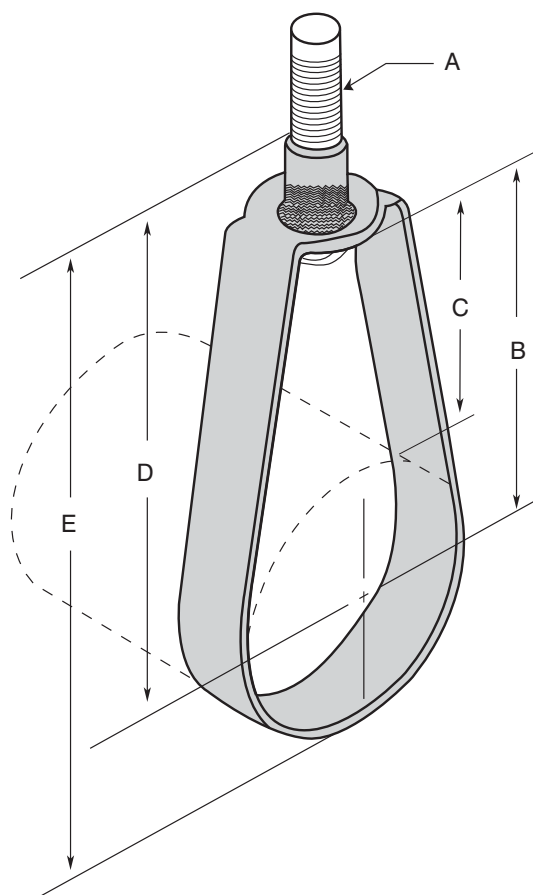
APPROVALS

Underwriters' Laboratories listed and Factory Mutual approved $\frac{3}{4}$ " to 8" sizes. Complies with Federal Specification WW-H-171E & A-A-1192 (Type 10), and Manufacturers' Standardization Society MSS SP-69 & SP-58 (Type 10).

Material : Low Carbon Steel to ASTM A653

Nut : Electro Galvanized to ASTM B633

Finishing : Galvanized



SD-HB

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

Note: a) Swivel Nut is coming along with hanger
b) Swivel Nut is available for 10mm and 12mm Rod size
c) Hot Dipped Galvanized can be supplied upon request

Shield Clevis Hanger

Model : SD-HC

FUNCTION

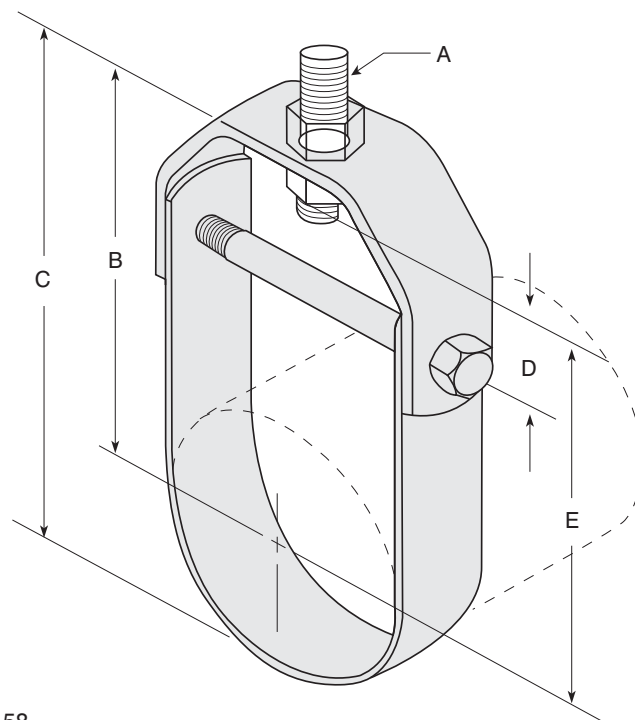
Designed for the suspension of non-insulated stationary pipe lines. SD-HCF has a layer of felt which separates the pipe from the hanger to reduce vibration and sound. The PVC coating on SD-HC protects the pipe from the metal surface of the hanger.

APPROVALS

Underwriters' Laboratories listed and Factory Mutual approved for 2½" upto 8" pipe. Complies with Federal Specification WW-H-171E & A-A-1192A (Type 1) and Manufacturers' Standardization Society MSS SP-69 & SP-58 (Type 1).

Material : Low Carbon Steel

Finishing : Galvanized to ASTM B633



SD-HC

Pipe Size	Rod Size A	B	Adj.			Cross Bolt	Max. Rec. Load/lbs.
			C	D	E		
½	⅜	27/16	27/8	1 1/8	2	¼	610
¾	⅜	25/8	3 1/8	1 ¼	2 3/16	¼	610
1	⅜	3 1/16	3 3/4	1 5/8	2 5/8	¼	610
1 ¼	⅜	3 3/8	4 3/16	1 5/8	2 15/16	¼	610
1 ½	⅜	3 ½	4 7/16	1 ½	3 1/16	¼	610
2	⅜	3 ¾	5	1 5/8	3 5/16	¼	610
2 ½	½	3 7/8	5 3/8	1 ⅞	3 ¼	⅜	1130
3	½	4 ¼	6	1 ⅞	3 5/8	⅜	1130
3 ½	½	4 ½	6 ½	1 ¾	3 7/8	⅜	1130
4	5/8	5 ½	7 11/16	1 ¾	4 11/16	⅜	1430
5	5/8	6 ⅛	9 ⅛	1 7/8	5 5/16	½	1430
6	¾	6 7/8	10 ⅛	1 5/8	6	½	1940
8	7/8	8 ¾	12 7/8	2 ⅛	7 7/8	5/8	2000
10	7/8	9 ¼	14 5/8	1 ¾	8 ⅛	¾	3600
12	7/8	11 5/8	18	2 ½	10 ½	¾	3800
14	1	12 ¾	19 ¾	2 5/8	11 ¼	7/8	4200
16	1	14 ⅛	22 ⅛	2 5/8	13 5/8	1	4600
18	1 ⅛	16 ½	25 ½	3 ½	15	1 ⅛	4800
20	1 ¼	18	28	4 ⅛	16 ⅛	1 ¼	4800
24	1 ¼	20 ¼	32 ¼	4 ¾	18 3/8	1 ¼	4800
30	1 ¼	24 ½	38 7/8	5 ½	21 ½	1 ¼	6000
36	1 ½	32	50	8 ¾	30	1 ½	9500

Note: a) 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 3½" or under, order the next largest size to allow for the thickness of the felt lining.

b) "D" Adjustment (Top of cross bolt to bottom of hanger rod nut).

c) 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.

d) Hot Dipped Galvanized to ASTM A123 can be supplied upon request.

Shield Pipe Clamp With Lining

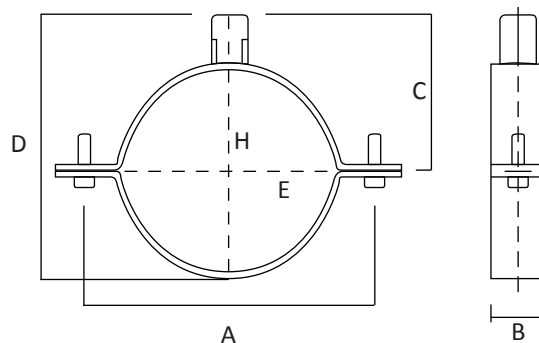
Model : SD-GE-RLC

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.

Material: Mild Steel & EPDM Rubber.

Finishing: Electro galvanized as per ASTM B633 Standards.



Model No	Size Inch	Pipe O.D mm	Dimensions						Maximum Load Kg
			H mm	E mm	A mm	B mm	C mm	D mm	
SD-GE-RLC 3/8	3/8"	17.1	15	19	59	20	23	30	450
SD-GE-RLC 1/2	1/2"	21.3	20	25	66	20	26	37	450
SD-GE-RLC 3/4	3/4"	26.7	26	30	72	20	29	43	450
SD-GE-RLC 1	1"	33.4	32	36	79	20	33	50	450
SD-GE-RLC 1 1/4	1 1/4"	42.2	38	43	86	20	36	57	450
SD-GE-RLC 1 1/2	1 1/2"	48.3	47	51	92	20	39	63	450
SD-GE-RLC 1 1/2-54	-	54.0	53	58	98	20	42	69	450
SD-GE-RLC 2	2"	60.3	60	64	104	20	45	75	450
SD-GE-RLC 2-63	-	63.0	63	66	108	20	47	72	450
SD-GE-RLC 2-70	-	70.0	68	72	114	20	50	85	450
SD-GE-RLC 2 1/2	2 1/2"	73.0	74	80	119	20	53	90	600
SD-GE-RLC 2 1/2-83	-	83.0	81	86	127	20	57	98	600
SD-GE-RLC 3	3"	88.9	87	92	134	20	60	105	600
SD-GE-RLC 3 1/2	3 1/2"	101.6	99	105	144	20	65	115	600
SD-GE-RLC 3 1/2-110	-	110.0	107	112	164	20	70	125	600
SD-GE-RLC 4	4"	114.3	113	118	159	20	73	130	600
SD-GE-RLC 4-125	-	125.0	125	130	169	20	78	140	600
SD-GE-RLC 4-133	-	133.0	131	137	177	20	82	148	600
SD-GE-RLC 5	5"	141.3	138	142	184	20	85	155	600
SD-GE-RLC 5-150	-	150.0	148	153	194	20	90	165	600
SD-GE-RLC 5-160	-	160.0	159	166	204	25	95	175	600
SD-GE-RLC 6	6"	168.3	168	172	212	25	99	183	600
SD-GE-RLC 6-210	-	210.0	200	212	244	25	115	215	950
SD-GE-RLC 8	8"	219.1	215	220	264	25	125	235	950
SD-GE-RLC 10	10"	273.0	269	274	294	25	140	265	950
SD-GE-RLC 12	12"	323.8	313	318	367	25	177	339	1200

Notes:

- 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 Pipe Clamp With Lining

Model : SD-GE-RLC



Selection of Lined Pipe Hangers for Different Types of Pipes:

Model No	Copper mm	Steel (SCH 40)		UPVC / PE	ABS
		Inch	mm		
SD-GE-RLC 3/8	15, 18	-	16	-	-
SD-GE-RLC 1/2	22	1/2"	22	20	DN15 (21.4)
SD-GE-RLC 3/4	24, 28	3/4"	28	25	DN20 (26.8)
SD-GE-RLC 1	35	1"	35	32, 38	DN25 (33.6)
SD-GE-RLC 1 1/4	42	1 1/4"	42	40, 43	DN32 (42.3)
SD-GE-RLC 1 1/2	-	1 1/2"	48	45	DN40 (48.3)
SD-GE-RLC 1 1/2-54	54	-	-	54	-
SD-GE-RLC 2	64	2"	60	60	DN50 (60.4)
SD-GE-RLC 2-63	-	-	-	-	-
SD-GE-RLC 2-70	67, 70	-	-	70	-
SD-GE-RLC 2 1/2	76	2 1/2"	75	75	DN65 (75.4)
SD-GE-RLC 2 1/2-83	80	-	-	83	-
SD-GE-RLC 3	-	3"	90	90	-
SD-GE-RLC 3 1/2	102, 105	-	-	102	DN80 (88.9)
SD-GE-RLC 3 1/2-110	108	-	-	110	-
SD-GE-RLC 4	-	4"	115	115	DN100 (114.3)
SD-GE-RLC 4-125	125	-	-	125	-
SD-GE-RLC 4-133	-	-	-	135	-
SD-GE-RLC 5	-	5"	140	140	DN125 (21.4)
SD-GE-RLC 5-150	-	-	-	152	-
SD-GE-RLC 5-160	159	-	-	160	-
SD-GE-RLC 6	167	6"	168	-	DN150 (168.3)
SD-GE-RLC 6-210	206	-	-	200	-
SD-GE-RLC 8	-	8"	219	220, 225	DN200 (225.0)
SD-GE-RLC 10	-	-	-	250	DN225 (250.4)
SD-GE-RLC 12	-	-	-	-	DN300 (315.5)

Notes:

- Measurements are subject to 5% tolerance
- SHIELD reserves the right to change the contents without notice.

Shield Pipe Clamp



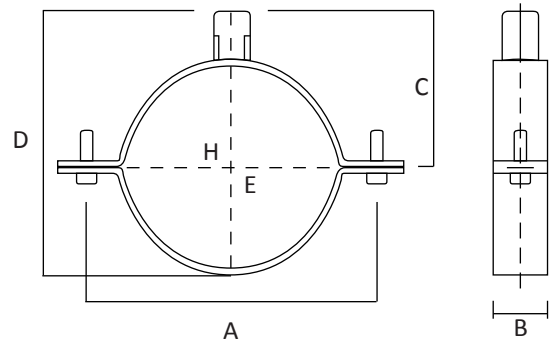
Model : SD-GE-PPC

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.

Material: Mild Steel.

Finishing: Electro galvanized as per ASTM B633 Standards.



Model No	Size Inch	Pipe O.D mm	Dimensions						Maximum Load Kg
			H mm	E mm	A mm	B mm	C mm	D mm	
SD-GE-PPC 3/8	3/8"	17.1	15	19	59	20	23	30	450
SD-GE-PPC 1/2	1/2"	21.3	20	25	66	20	26	37	450
SD-GE-PPC 3/4	3/4"	26.7	26	30	72	20	29	43	450
SD-GE-PPC 1	1"	33.4	32	36	79	20	33	50	450
SD-GE-PPC 1 1/4	1 1/4"	42.2	38	43	86	20	36	57	450
SD-GE-PPC 1 1/2	1 1/2"	48.3	47	51	92	20	39	63	450
SD-GE-PPC 1 1/2-54	-	54.0	53	58	98	20	42	69	450
SD-GE-PPC 2	2"	60.3	60	64	104	20	45	75	450
SD-GE-PPC 2-63	-	63.0	63	66	108	20	47	72	450
SD-GE-PPC 2-70	-	70.0	68	72	114	20	50	85	450
SD-GE-PPC 2 1/2	2 1/2"	73.0	74	80	119	20	53	90	600
SD-GE-PPC 2 1/2-83	-	83.0	81	86	127	20	57	98	600
SD-GE-PPC 3	3"	88.9	87	92	134	20	60	105	600
SD-GE-PPC 3 1/2	3 1/2"	101.6	99	105	144	20	65	115	600
SD-GE-PPC 3 1/2-110	-	110.0	107	112	164	20	70	125	600
SD-GE-PPC 4	4"	114.3	113	118	159	20	73	130	600
SD-GE-PPC 4-125	-	125.0	125	130	169	20	78	140	600
SD-GE-PPC 4-133	-	133.0	131	137	177	20	82	148	600
SD-GE-PPC 5	5"	141.3	138	142	184	20	85	155	600
SD-GE-PPC 5-150	-	150.0	148	153	194	20	90	165	600
SD-GE-PPC 5-160	-	160.0	159	166	204	25	95	175	600
SD-GE-PPC 6	6"	168.3	168	172	212	25	99	183	600
SD-GE-PPC 6-210	-	210.0	200	212	244	25	115	215	950
SD-GE-PPC 8	8"	219.1	215	220	264	25	125	235	950
SD-GE-PPC 10	10"	273.0	269	274	294	25	140	265	950
SD-GE-PPC 12	12"	323.8	313	318	367	25	177	339	1200

Notes:

- 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 with Lining

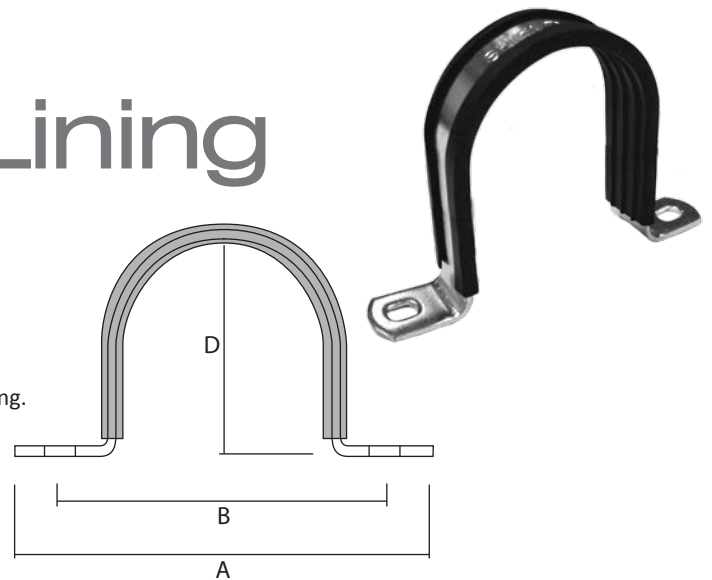
Model : SD-GE-RUS

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.

Material: Mild Steel & EPDM Rubber

Finishing: Electro galvanized as per ASTM B 633 Standards



Model No	Pipe Size Inch	Pipe O.D mm	A mm	B mm	Width mm	Bolt Size	Maximum Load Kg
SD-GE-RUS 1/2	1/2"	21.3	76	51	20	M8	500
SD-GE-RUS 3/4	3/4"	26.7	82	57	20	M8	500
SD-GE-RUS 1	1"	33.4	89	64	20	M8	500
SD-GE-RUS 1 1/4	1 1/4"	42.2	96	71	20	M8	500
SD-GE-RUS 1 1/2	1 1/2"	48.3	102	77	20	M8	500
SD-GE-RUS 1 1/2-54	-	54.0	108	83	20	M8	500
SD-GE-RUS 2	2"	60.3	114	89	20	M8	500
SD-GE-RUS 2-67	-	67.0	121	96	25	M8	500
SD-GE-RUS 2 1/2	2 1/2"	73.0	145	113	25	M8	600
SD-GE-RUS 2 1/2-82	-	82.0	152	120	25	M8	600
SD-GE-RUS 3	3"	88.9	160	128	25	M8	600
SD-GE-RUS 3 1/2	3 1/2"	101.6	170	138	25	M8	600
SD-GE-RUS 3 1/2-110	-	108.0	178	146	25	M8	600
SD-GE-RUS 4	4"	114.3	185	153	25	M8	600
SD-GE-RUS 4-126	-	126.0	196	164	30	M8	600
SD-GE-RUS 5	5"	141.3	210	178	30	M10	600
SD-GE-RUS 5-148	-	148.0	218	186	30	M10	600
SD-GE-RUS 5-155	-	155.0	225	193	30	M10	600
SD-GE-RUS 6	6"	168.3	237	205	30	M10	600
SD-GE-RUS 6-179	-	179.0	249	217	30	M10	600
SD-GE-RUS 6-190	-	190.0	260	228	30	M10	800
SD-GE-RUS 6-205	-	205.0	275	243	30	M10	800
SD-GE-RUS 8	8"	219.1	289	257	30	M10	800
SD-GE-RUS 8-230	-	230.0	300	268	30	M10	800
SD-GE-RUS 8-241	-	241.0	332	291	30	M12	1250
SD-GE-RUS 8-263	-	263.0	354	313	30	M12	1250
SD-GE-RUS 10	10"	273.0	364	323	30	M18	1250
SD-GE-RUS 10-295	-	295.0	386	345	40	M18	1250

Notes:

- 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

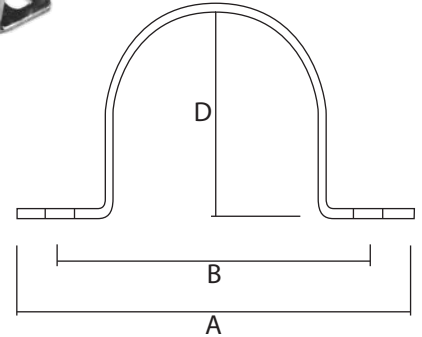
Model : SD-GE-US

Features:

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

Material: Mild Steel.

Finishing: Electrogalvanized as per ASTM B 633 Standards.



Model No	Paper Size Inch	Pipe O.D mm	A mm	B mm	Width mm	Bolt Size	Maximum Load Kg
SD-GE-US 1/2	1/2"	21.3	76	51	20	M8	500
SD-GE-US 3/4	3/4"	26.7	82	57	20	M8	500
SD-GE-US 1	1"	33.4	89	64	20	M8	500
SD-GE-US 1 1/4	1 1/4"	42.2	96	71	20	M8	500
SD-GE-US 1 1/2	1 1/2"	48.3	102	77	20	M8	500
SD-GE-US 1 1/2-54	-	54.0	108	83	20	M8	500
SD-GE-US 2	2"	60.3	114	89	20	M8	500
SD-GE-US 2-67	-	67.0	121	96	25	M8	500
SD-GE-US 2 1/2	2 1/2"	73.0	145	113	25	M8	600
SD-GE-US 2 1/2-82	-	82.0	152	120	25	M8	600
SD-GE-US 3	3"	88.9	160	128	25	M8	600
SD-GE-US 3 1/2	3 1/2"	101.6	170	138	25	M8	600
SD-GE-US 3 1/2-108	-	108.0	178	146	25	M8	600
SD-GE-US 4	4"	114.3	185	153	25	M8	600
SD-GE-US 4-126	-	126.0	196	164	30	M8	600
SD-GE-US 5	5"	141.3	210	178	30	M10	600
SD-GE-US 5-148	-	148.0	218	186	30	M10	600
SD-GE-US 5-155	-	155.0	225	193	30	M10	600
SD-GE-US 6	6"	168.3	237	205	30	M10	600
SD-GE-US 6-179	-	179.0	249	217	30	M10	600
SD-GE-US 6-190	-	190.0	260	228	30	M10	800
SD-GE-US 6-205	-	205.0	275	243	30	M10	800
SD-GE-US 8	8"	219.1	289	257	30	M10	800
SD-GE-US 8-230	-	230.0	300	268	30	M10	800
SD-GE-US 8-241	-	241.0	332	291	30	M12	1250
SD-GE-US 8-263	-	263.0	354	313	30	M12	1250
SD-GE-US 10	10"	273.0	364	323	30	M18	1250
SD-GE-US 10-295	-	295.0	386	345	40	M18	1250

Notes:

- 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 or Clamp with Lining

Model : SD-GE-RRC

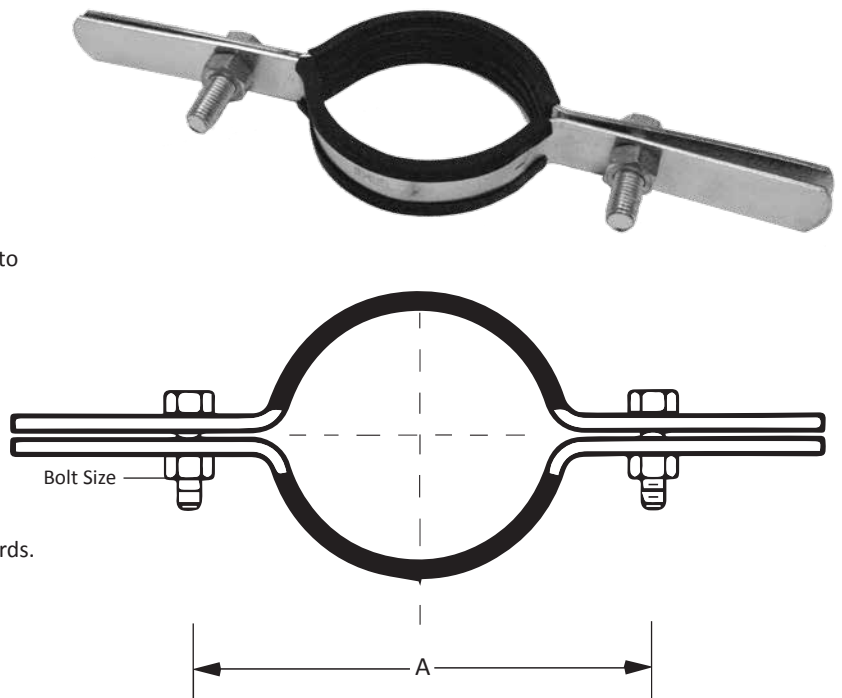
Features:

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.
- Manufactured as per MSS-SP58 - 2002 - Type 8.

Material: Mild Steel & EPDM Rubber

Finishing: Electrogalvanized as per ASTM B633 Standards.



Model No	Pipe Size Inch	Pipe O.D mm	A mm	Bolt Size	Maximum Load Kg
SD-GE-RRC 1/2	1/2"	21.3	57	M10	1250
SD-GE-RRC 3/4	3/4"	26.7	68	M10	1250
SD-GE-RRC 1	1"	33.4	76	M10	1250
SD-GE-RRC 1 1/4	1 1/4"	42.2	90	M10	1250
SD-GE-RRC 1 1/2	1 1/2"	48.3	110	M10	1250
SD-GE-RRC 2	2"	60.3	130	M10	1850
SD-GE-RRC 2 1/2	2 1/2"	73.0	142	M12	1850
SD-GE-RRC 3	3"	88.9	161	M12	2250
SD-GE-RRC 4	4"	114.3	190	M12	3600
SD-GE-RRC 6	6"	168.3	258	M16	4500
SD-GE-RRC 8	8"	219.1	333	M16	4500
SD-GE-RRC 10	10"	273.0	409	M16	5800
SD-GE-RRC 12	12"	323.8	467	M20	7300

Notes:

- 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 or Clamp

Model : SD-GE-PRC

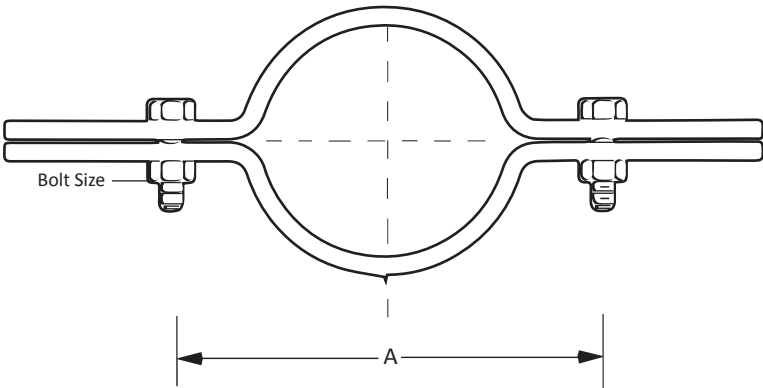
Features:

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.
- Manufactured as per MSS-SP58 - 2002 - Type 8.

Material: Mild Steel

Finishing: Electrogalvanized as per ASTM B633 Standards.



Model No	Pipe Size Inch	Pipe O.D mm	A mm	Bolt Size	Maximum Load Kg
SD-GE-PRC 1/2	1/2"	21.3	57	M10	1250
SD-GE-PRC 3/4	3/4"	26.7	68	M10	1250
SD-GE-PRC 1	1"	33.4	76	M10	1250
SD-GE-PRC 1 1/4	1 1/4"	42.2	90	M10	1250
SD-GE-PRC 1 1/2	1 1/2"	48.3	110	M10	1250
SD-GE-PRC 2	2"	60.3	130	M10	1850
SD-GE-PRC 2 1/2	2 1/2"	73.0	142	M12	1850
SD-GE-PRC 3	3"	88.9	161	M12	2250
SD-GE-PRC 4	4"	114.3	190	M12	3600
SD-GE-PRC 6	6"	168.3	258	M16	4500
SD-GE-PRC 8	8"	219.1	333	M16	4500
SD-GE-PRC 10	10"	273.0	409	M16	5800
SD-GE-PRC 12	12"	323.8	467	M20	7300

Notes:

- 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-Bolt

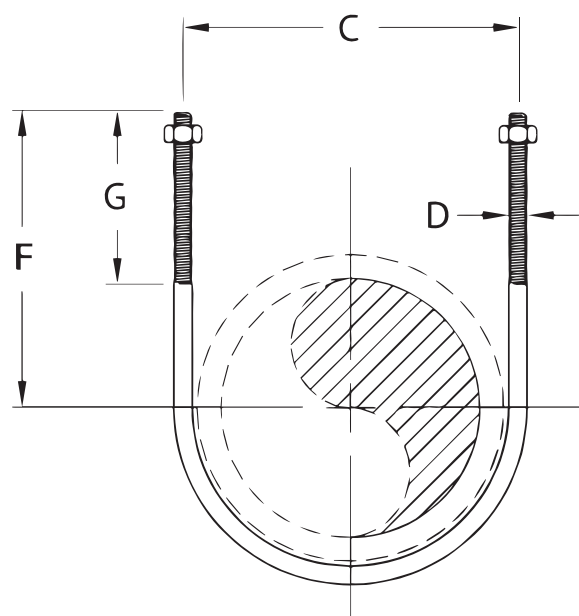
Model : SD-UB

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.

Material: Mild Steel

Finishing: Electro galvanized as per ASTM B 633 Standards.



Model No	Nominal Pipe Size Inch	Dimensions			
		D mm	C mm	F mm	G mm
SD-UB 1/2	1/2"	M8	31	35	35
SD-UB 3/4	3/4"	M10	39	40	38
SD-UB 1	1"	M10	45	45	40
SD-UB 1 1/4	1 1/4"	M10	54	55	45
SD-UB 1 1/2	1 1/2"	M10	60	55	45
SD-UB 2	2"	M10	72	60	45
SD-UB 2 1/2	2 1/2"	M10	86	75	55
SD-UB 3	3"	M10	102	80	55
SD-UB 4	4"	M10	128	95	55
SD-UB 6	6"	M12	184	130	70
SD-UB 8	8"	M12	239	155	70
SD-UB 10	10"	M20	273	370	100
SD-UB 12	12"	M20	324	420	100
SD-UB 14	14"	M20	356	455	100
SD-UB 16	16"	M20	406	505	100
SD-UB 18	18"	M24	457	555	100
SD-UB 20	20"	M24	508	605	100
SD-UB 24	24"	M24	610	710	100



Notes:

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

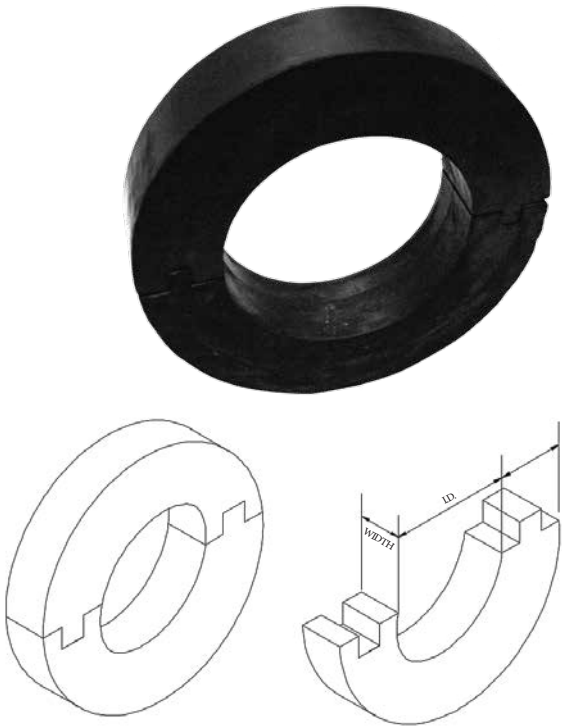
Shield Rubber Support Insert

Model : SD-RSI

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



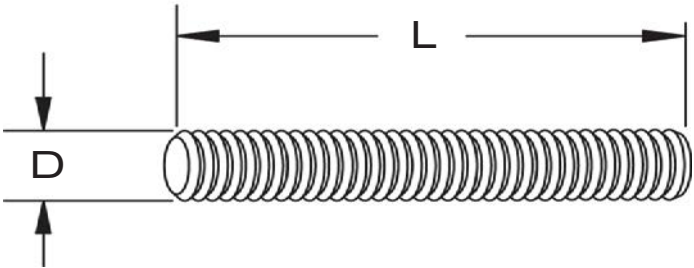
Nominal Pipe Sizes		Schedule 40 Steel Pipe OD	Width of Rubber Support Insert	Part numbers for Rubber Support Insert Thickness							
Inch	mm			1/2" (13)	3/4" (19)	1" (25)	1 1/4" (32)	1 1/2" (38)	2" (50)	2 1/2" (65)	3" (75)
Inch	mm	mm	mm	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)
1/2"	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
3/4"	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
1 1/4"	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
1 1/2"	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
2 1/2"	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
3 1/2"	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

Notes:

- Measurements are subject to 5% tolerance.
- Other Sizes available on request.
- SHIELD reserves the right to change the contents without notice.
- Self extinguishing rubber Inserts also available on request.

Shield Threaded Rod

Model : SD-TR



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.

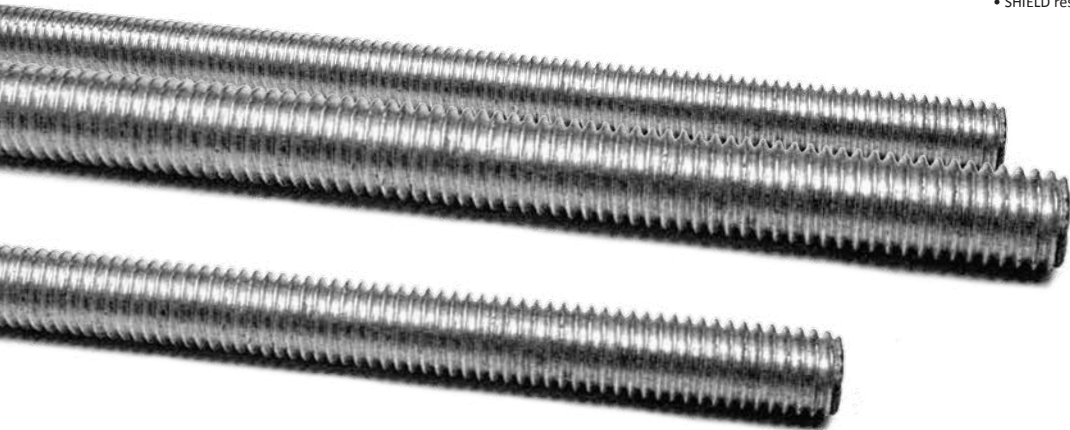
Material: Low Carbon Steel

Standard: DIN 975, steel - Property Class 4.8

Finishing: Zinc Plated.

Thread (D)	Coarse & Fine Thread Length (L) = 1000mm, 2000mm & 3000 mm										
	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
Pitch	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	1.772	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

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



Shield Beam Clamp

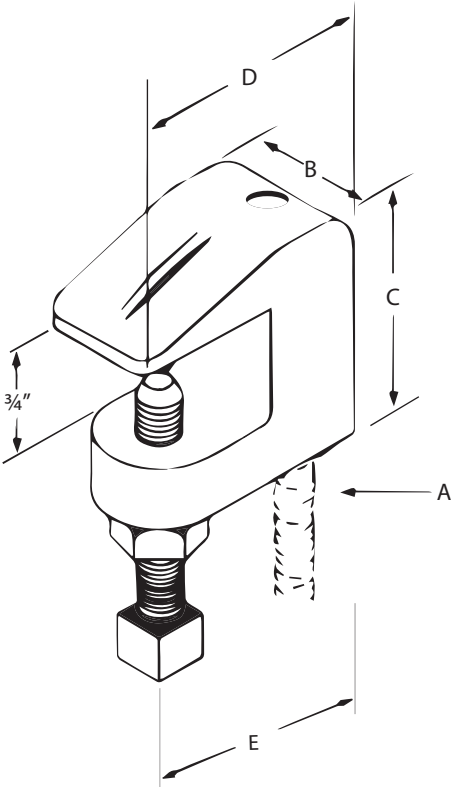
Model : SD-CBC

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.

Material: Ductile iron ASTM A536, Grade 65-45-12

Finishing: Electro galvanized as per ASTM B 633 Standards.



Model No	Rod Size A Inch (mm)	Dimensions				Max. Pipe Size Inch	Maximum Load lbs.
		B mm	C mm	D mm	E mm		
SD-CBC-110	3/8 (10)	21	40	49	42	4	250
SD-CBCA-115	1/2 (12)	30.2	46.1	55.6	46.5	8	750

- Notes:
- 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.

Factory
Mutual
System





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