

V-Flex

SHIELD Expansion Joints (V-Flex) provide extremely reliable and flexible movement in the piping system deployed in firefighting, HVAC, water and fluid carrying domestic and industrial system. The joints act as shock absorbers during seismic shocks and safeguard the piping system from potential break down and critical losses.



SHIELD V-Flex, Available Types (Standard Versions)

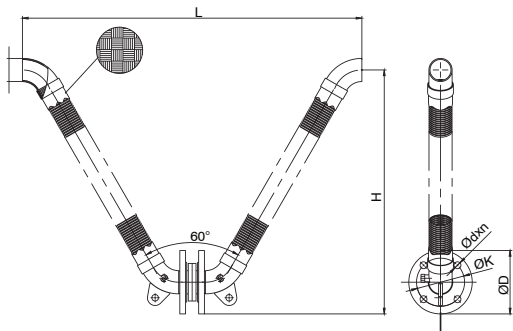
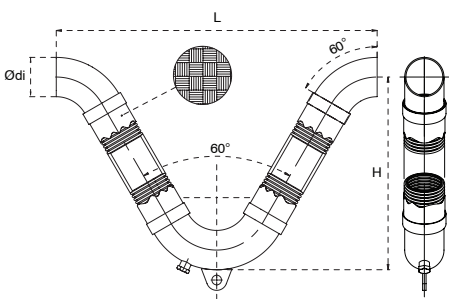
Model	Movement Amount - All Plates mm	Design Pressure PSI	Description
SD-VFW	± 37.5 & ± 100.0	250	V-type, 3D Braided Loop-Joint, Welded End
SD-VFF	± 37.5 & ± 100.0	250	V-type, 3D Braided Loop-Joint, Flanged End
SD-VFG	± 37.5 & ± 100.0	250	V-type, 3D Braided Loop-Joint, Grooved End
SD-VFT	± 37.5 & ± 100.0	250	V-type, 3D Braided Loop-Joint, Threaded End

Product Specifications:

Below Material	Stainless Steel AISI 304 / AISI 316L / AISI 321
Braiding Material	Stainless Steel AISI 304
Connection Types	Flange End, Welded End, Grooved End, Threaded End
Flange Material	Carbon Steel St. 37.2 (The material can be customized as per request)
Elbow and Turn Material	Carbon Steel St. 37.2 (The material can be customized as per request)
Operating Temperature	-80°C to + 600°C
Operating Pressure	250psi (FM Approved)
Nominal Diameters	DN15 (1/2") - DN250 (10")
Approvals/Listings	

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Product Dimensions:

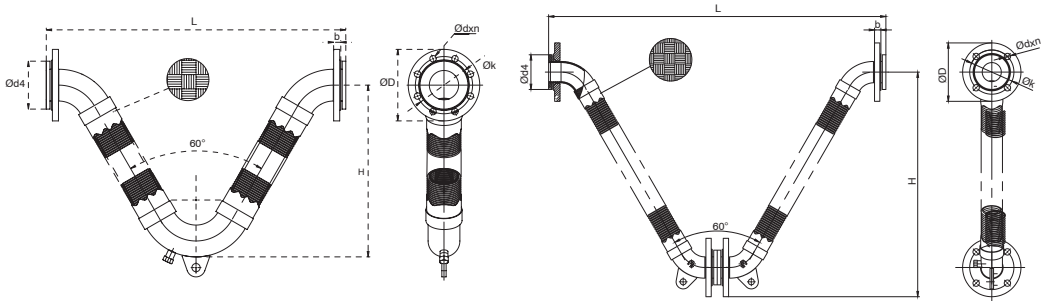


Welded End:

SD-VFW

Model	Nominal Diameter	Nominal Pipe Size	Ødi	Movement in all directions		L	H
				mm	Inch		
SD-VFW-25	DN 25	1	33.7	± 37.5	±1.5	450	330
				± 100.0	±4.0	637	492
				± 200.0	±8.0	1040	839
SD-VFW-32	DN 32	1¼	42.4	± 37.5	±1.5	467	330
				± 100.0	±4.0	680	515
				± 200.0	±8.0	1160	931
SD-VFW-40	DN 40	1½	48.3	± 37.5	±1.5	484	330
				± 100.0	±4.0	737	549
				± 200.0	±8.0	1295	1030
SD-VFW-50	DN 50	2	60.3	± 37.5	±1.5	568	370
				± 100.0	±4.0	815	584
				± 200.0	±8.0	1470	1150
SD-VFW-65	DN 65	2½	76.1	± 37.5	±1.5	679	436
				± 100.0	±4.0	950	670
				± 200.0	±8.0	1602	1233
SD-VFW-80	DN 80	3	88.9	± 37.5	±1.5	768	480
				± 100.0	±4.0	1065	739
				± 200.0	±8.0	1732	1315
SD-VFW-100	DN 100	4	114.3	± 37.5	±1.5	933	560
				± 100.0	±4.0	1248	834
				± 200.0	±8.0	2115	1582
SD-VFW-125	DN 125	5	141.3	± 37.5	±1.5	1110	650
				± 100.0	±4.0	1480	872
				± 200.0	±8.0	2335	1711
SD-VFW-150	DN 150	6	168.3	± 37.5	±1.5	1297	750
				± 100.0	±4.0	1687	1088
				± 200.0	±8.0	2595	1872
SD-VFW-200	DN 200	8	219.1	± 37.5	±1.5	1617	900
				± 100.0	±4.0	2027	1255
				± 200.0	±8.0	3205	2251
SD-VFW-250	DN 250	10	273.0	± 37.5	±1.5	1970	1080
				± 100.0	±4.0	2440	1488
				± 200.0	±8.0	3702	2554

Product Dimensions:



Flanged End:

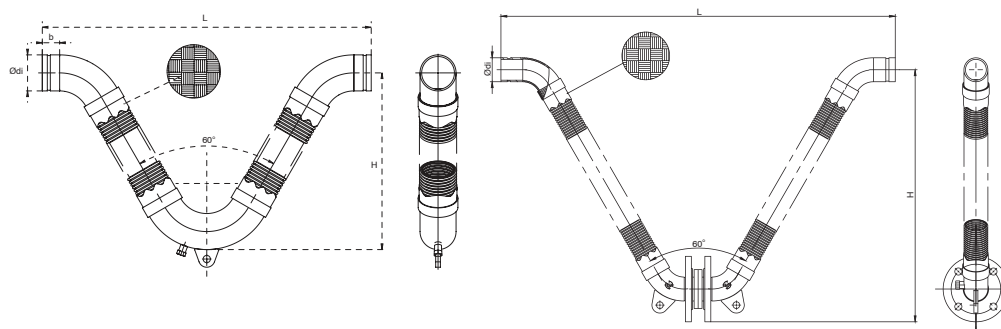
SD-VFF

Model	Nominal Diameter	Nominal Pipe Size	Flange (DIN EN 1092/1) PN 16					Movement in all directions		L	H
			ØD mm	Øk mm	b mm	Ødxn mm	Ød4 mm	mm	Inch		
SD-VFF-25	DN 25	1	115	85	16	14 x 4	68	± 37.5	±1.5	520	330
								± 100.0	±4.0	707	492
								± 200.0	±8.0	1115	839
SD-VFF-32	DN 32	1¼	140	100	16	18 x 4	78	± 37.5	±1.5	537	330
								± 100.0	±4.0	750	515
								± 200.0	±8.0	1226	931
SD-VFF-40	DN 40	1½	150	110	16	18 x 4	88	± 37.5	±1.5	554	330
								± 100.0	±4.0	807	549
								± 200.0	±8.0	1372	1030
SD-VFF-50	DN 50	2	165	125	18	18 x 4	102	± 37.5	±1.5	638	370
								± 100.0	±4.0	885	584
								± 200.0	±8.0	1547	1150
SD-VFF-65	DN 65	2½	185	145	18	18 x 4	122	± 37.5	±1.5	749	436
								± 100.0	±4.0	1020	670
								± 200.0	±8.0	1677	1233
SD-VFF-80	DN 80	3	200	160	20	18 x 8	138	± 37.5	±1.5	838	480
								± 100.0	±4.0	1135	739
								± 200.0	±8.0	1812	1315
SD-VFF-100	DN 100	4	220	180	20	18 x 8	158	± 37.5	±1.5	1005	560
								± 100.0	±4.0	1320	834
								± 200.0	±8.0	2200	1582
SD-VFF-125	DN 125	5	250	210	22	18 x 8	188	± 37.5	±1.5	1182	650
								± 100.0	±4.0	1552	972
								± 200.0	±8.0	2425	1711
SD-VFF-150	DN 150	6	285	240	22	23 x 8	212	± 37.5	±1.5	1369	750
								± 100.0	±4.0	1759	1088
								± 200.0	±8.0	2690	1872
SD-VFF-200	DN 200	8	340	295	24	23 x 12	268	± 37.5	±1.5	1689	900
								± 100.0	±4.0	2102	1255
								± 200.0	±8.0	3300	2261
SD-VFF-250	DN 250	10	405	355	26	27 x 12	320	± 37.5	±1.5	2045	1080
								± 100.0	±4.0	2515	1487
								± 200.0	±8.0	3810	2564

Other flange types are made according to different standards (ANSI/ASME, BS, & UNI), are also available upon request.

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Product Dimensions:

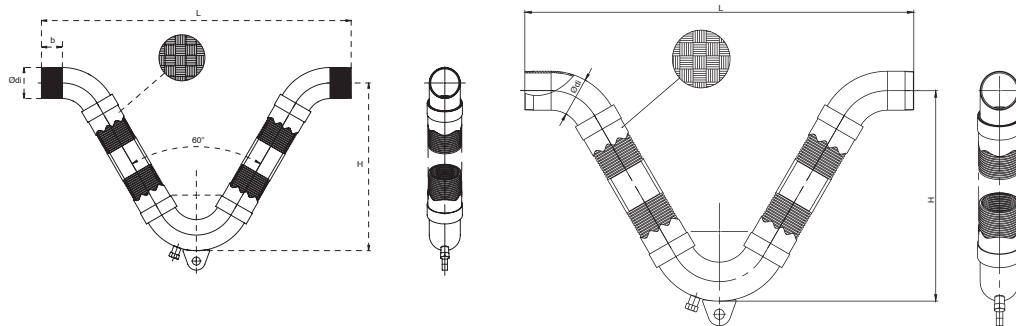


Grooved End:

SD-VFG

Model	Nominal Diameter	Nominal Pipe Size	Ødi	b	Movement in all directions		L	H
					mm	Inch		
SD-VFG-25	DN 25	1	33.7	55	±37.5	±1.5	560	330
					±100.0	±4.0	747	492
					±200.0	±8.0	1150	839
SD-VFG-32	DN 32	1¼	42.4	55	±37.5	±1.5	577	330
					±100.0	±4.0	790	515
					±200.0	±8.0	1270	931
SD-VFG-40	DN 40	1½	48.3	55	±37.5	±1.5	594	330
					±100.0	±4.0	847	549
					±200.0	±8.0	1405	1030
SD-VFG-50	DN 50	2	60.3	55	±37.5	±1.5	678	370
					±100.0	±4.0	925	582
					±200.0	±8.0	1580	1150
SD-VFG-65	DN 65	2½	76.1	55	±37.5	±1.5	789	436
					±100.0	±4.0	1060	670
					±200.0	±8.0	1712	1233
SD-VFG-80	DN 80	3	88.9	55	±37.5	±1.5	878	480
					±100.0	±4.0	1175	739
					±200.0	±8.0	1842	1315
SD-VFG-100	DN 100	4	114.3	55	±37.5	±1.5	1043	560
					±100.0	±4.0	1358	833
					±200.0	±8.0	2225	1582
SD-VFG-125	DN 125	5	141.3	60	±37.5	±1.5	1230	650
					±100.0	±4.0	1600	970
					±200.0	±8.0	2455	1711
SD-VFG-150	DN 150	6	168.3	60	±37.5	±1.5	1417	750
					±100.0	±4.0	1807	1088
					±200.0	±8.0	2715	1872
SD-VFG-200	DN 200	8	219.1	65	±37.5	±1.5	1747	900
					±100.0	±4.0	2157	1255
					±200.0	±8.0	3335	2261
SD-VFG-250	DN 250	10	273.0	65	±37.5	±1.5	2100	1080
					±100.0	±4.0	2570	1487
					±200.0	±8.0	3832	2564

Product Dimensions:



Threaded End:

SD-VFT

Model	Nominal Diameter	Nominal Pipe Size	Ødi	b	Movement in all directions		L	H
					mm	Inch		
SD-VFT-25	DN 25	1	33.7	55	±37.5	±1.5	560	330
					±100.0	±4.0	747	492
					±200.0	±8.0	1150	839
SD-VFT-32	DN 32	1¼	42.4	55	±37.5	±1.5	577	330
					±100.0	±4.0	790	515
					±200.0	±8.0	1270	931
SD-VFT-40	DN 40	1½	48.3	55	±37.5	±1.5	594	330
					±100.0	±4.0	847	549
					±200.0	±8.0	1405	1030
SD-VFT-50	DN 50	2	60.3	55	±37.5	±1.5	678	370
					±100.0	±4.0	925	582
					±200.0	±8.0	1580	1150
SD-VFT-65	DN 65	2½	76.1	55	±37.5	±1.5	789	436
					±100.0	±4.0	1060	670
					±200.0	±8.0	1712	1233
SD-VFT-80	DN 80	3	88.9	55	±37.5	±1.5	878	480
					±100.0	±4.0	1175	739
					±200.0	±8.0	1842	1315
SD-VFT-100	DN 100	4	114.3	55	±37.5	±1.5	1043	560
					±100.0	±4.0	1358	833
					±200.0	±8.0	2225	1582
SD-VFT-125	DN 125	5	141.3	60	±37.5	±1.5	1230	650
					±100.0	±4.0	1600	970
					±200.0	±8.0	2455	1711
SD-VFT-150	DN 150	6	168.3	60	±37.5	±1.5	1417	750
					±100.0	±4.0	1807	1088
					±200.0	±8.0	2715	1872

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Miscellaneous Data:

1. Ordering Information

Example: SD-VFW-1

- SD-VF is the part number
- (W) Welded End (F) Flanged End (G) Grooved End (T) Threaded End
- (1) Size

2. Contact Information

For further information on any aspect of the SHIELD Flexible Sprinkler Drop please contact below:

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