

U-Flex

SHIELD Expansion Joints (U-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 U-Flex, Available Types (Standard Versions)

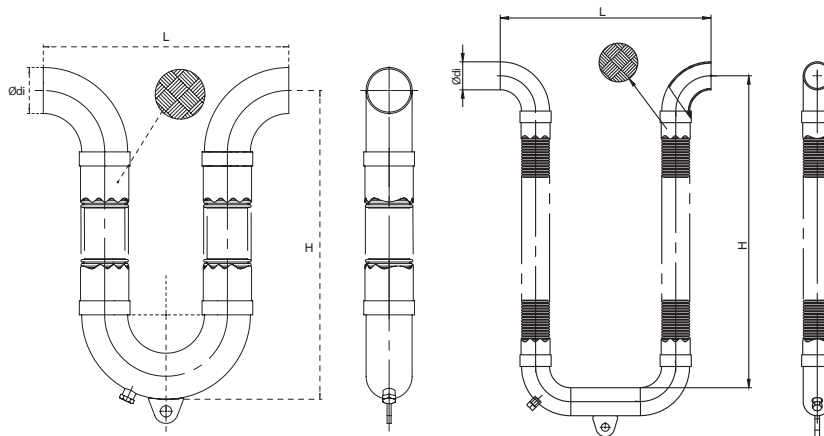
Model	Movement Amount - All Plates mm	Design Pressure PSI	Description
SD-UFW	± 37.5 & ± 100.0	250	U-type, 3D Braided Loop-Joint, Welded End
SD-UFF	± 37.5 & ± 100.0	250	U-type, 3D Braided Loop-Joint, Flanged End
SD-UFG	± 37.5 & ± 100.0	250	U-type, 3D Braided Loop-Joint, Grooved End
SD-UFT	± 37.5 & ± 100.0	250	U-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:

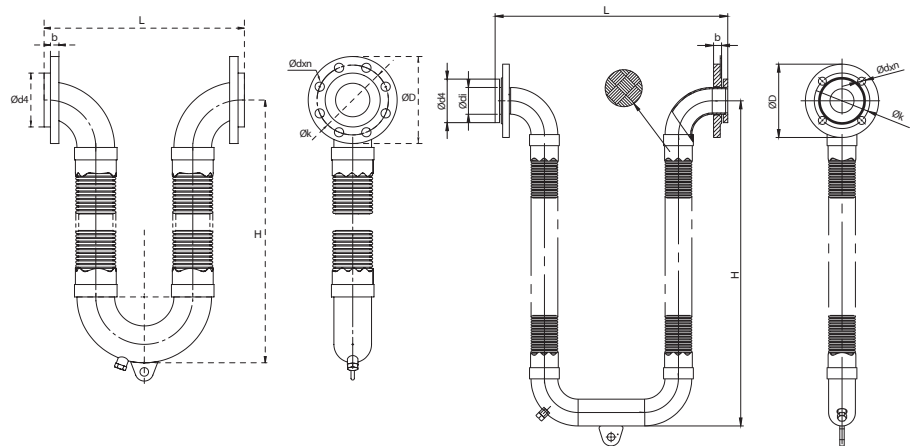


Welded End:

SD-UFW

Model	Nominal Diameter	Nominal Pipe Size	Ødi	Movement in all directions		L	H
				mm	Inch		
SD-UFW-25	DN 25	1	33.7	±37.5	±1.5	152	380
				±100.0	±4.0	254	510
				±200.0	±8.0	322	795
SD-UFW-32	DN 32	1¼	42.4	±37.5	±1.5	190	410
				±100.0	±4.0	273	535
				±200.0	±8.0	350	870
SD-UFW-40	DN 40	1½	48.3	±37.5	±1.5	228	435
				±100.0	±4.0	292	585
				±200.0	±8.0	378	960
SD-UFW-50	DN 50	2	60.3	±37.5	±1.5	304	485
				±100.0	±4.0	356	635
				±200.0	±8.0	424	1050
SD-UFW-65	DN 65	2½	76.1	±37.5	±1.5	380	535
				±100.0	±4.0	380	715
				±200.0	±8.0	480	1110
SD-UFW-80	DN 80	3	88.9	±37.5	±1.5	456	585
				±100.0	±4.0	456	762
				±200.0	±8.0	526	1165
SD-UFW-100	DN 100	4	114.3	±37.5	±1.5	608	715
				±100.0	±4.0	608	890
				±200.0	±8.0	658	1380
SD-UFW-125	DN 125	5	141.3	±37.5	±1.5	760	815
				±100.0	±4.0	760	1020
				±200.0	±8.0	760	1455
SD-UFW-150	DN 150	6	168.3	±37.5	±1.5	916	940
				±100.0	±4.0	920	1170
				±200.0	±8.0	916	1565
SD-UFW-200	DN 200	8	219.1	±37.5	±1.5	1220	1220
				±100.0	±4.0	1220	1475
				±200.0	±8.0	1220	1780
SD-UFW-250	DN 250	10	273.0	±37.5	±1.5	1524	1400
				±100.0	±4.0	1524	1702
				±200.0	±8.0	1524	1975

Product Dimensions:



Flanged End:

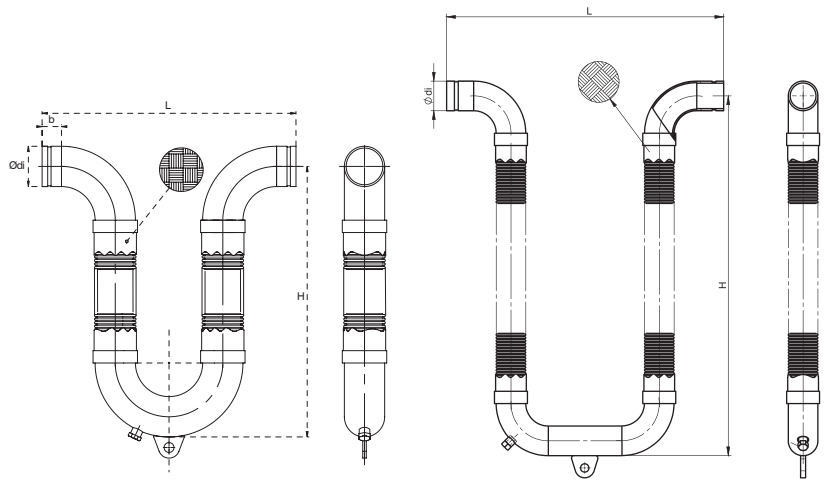
SD-UFF

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-UFF-25	DN 25	1	115	85	16	14 x 4	68	± 37.5	±1.5	222	380
								± 100.0	±4.0	324	510
								± 200.0	±8.0	395	888
SD-UFF-32	DN 32	1¼	140	100	16	18 x 4	78	± 37.5	±1.5	260	410
								± 100.0	±4.0	343	535
								± 200.0	±8.0	415	987
SD-UFF-40	DN 40	1½	150	110	16	18 x 4	88	± 37.5	±1.5	300	435
								± 100.0	±4.0	362	585
								± 200.0	±8.0	455	1099
SD-UFF-50	DN 50	2	165	125	18	18 x 4	102	± 37.5	±1.5	375	485
								± 100.0	±4.0	426	635
								± 200.0	±8.0	500	1233
SD-UFF-65	DN 65	2½	185	145	18	18 x 4	122	± 37.5	±1.5	450	535
								± 100.0	±4.0	450	715
								± 200.0	±8.0	555	1339
SD-UFF-80	DN 80	3	200	160	20	18 x 8	138	± 37.5	±1.5	536	585
								± 100.0	±4.0	536	765
								± 200.0	±8.0	605	1438
SD-UFF-100	DN 100	4	220	180	20	18 x 8	158	± 37.5	±1.5	680	715
								± 100.0	±4.0	680	890
								± 200.0	±8.0	745	1742
SD-UFF-125	DN 125	5	250	210	22	18 x 8	188	± 37.5	±1.5	832	815
								± 100.0	±4.0	832	1020
								± 200.0	±8.0	850	1905
SD-UFF-150	DN 150	6	285	240	22	23 x 8	212	± 37.5	±1.5	988	940
								± 100.0	±4.0	988	1170
								± 200.0	±8.0	1010	2108
SD-UFF-200	DN 200	8	340	295	24	23 x 12	268	± 37.5	±1.5	1292	1220
								± 100.0	±4.0	1292	1475
								± 200.0	±8.0	1315	2500
SD-UFF-250	DN 250	10	405	355	26	27 x 12	320	± 37.5	±1.5	1600	1400
								± 100.0	±4.0	1600	1702
								± 200.0	±8.0	1630	2874

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

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Product Dimensions:



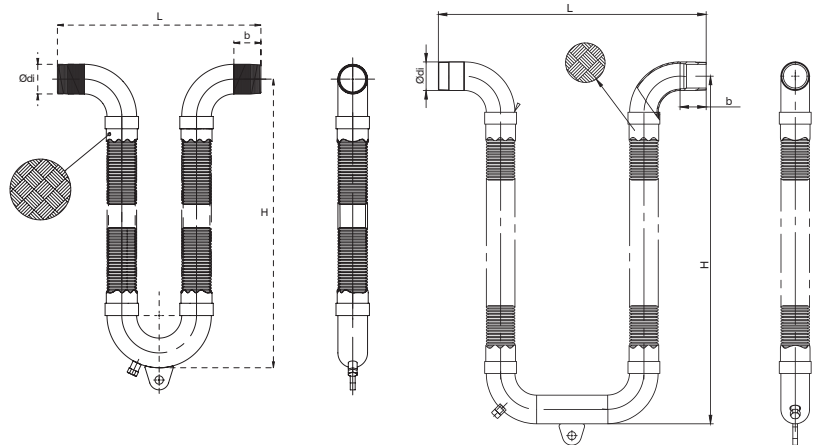
Grooved End:

SD-UFG

Model	Nominal Diameter	Nominal Pipe Size	Ødi	b	Movement in all directions		L	H
					mm	Inch		
SD-UFG-25	DN 25	1	33.7	55	±37.5	±1.5	262	380
					±100.0	±4.0	364	510
					±200.0	±8.0	435	888
SD-UFG-32	DN 32	1¼	42.4	55	±37.5	±1.5	300	410
					±100.0	±4.0	383	535
					±200.0	±8.0	460	987
SD-UFG-40	DN 40	1½	48.3	55	±37.5	±1.5	338	435
					±100.0	±4.0	402	585
					±200.0	±8.0	490	1099
SD-UFG-50	DN 50	2	60.3	55	±37.5	±1.5	414	485
					±100.0	±4.0	466	635
					±200.0	±8.0	535	1233
SD-UFG-65	DN 65	2½	76.1	55	±37.5	±1.5	491	535
					±100.0	±4.0	490	715
					±200.0	±8.0	590	1399
SD-UFG-80	DN 80	3	88.9	55	±37.5	±1.5	568	585
					±100.0	±4.0	566	762
					±200.0	±8.0	640	1438
SD-UFG-100	DN 100	4	114.3	55	±37.5	±1.5	720	715
					±100.0	±4.0	718	890
					±200.0	±8.0	770	1742
SD-UFG-125	DN 125	5	141.3	60	±37.5	±1.5	882	815
					±100.0	±4.0	880	1020
					±200.0	±8.0	880	1905
SD-UFG-150	DN 150	6	168.3	60	±37.5	±1.5	1034	940
					±100.0	±4.0	1040	1170
					±200.0	±8.0	1040	2108
SD-UFG-200	DN 200	8	219.1	65	±37.5	±1.5	1350	1220
					±100.0	±4.0	1350	1475
					±200.0	±8.0	1355	2500
SD-UFG-250	DN 250	10	273.0	65	±37.5	±1.5	1654	1400
					±100.0	±4.0	1654	1702
					±200.0	±8.0	1660	2874

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Product Dimensions:



Threaded End:

SD-UFT

Model	Nominal Diameter	Nominal Pipe Size	Ødi	b	Movement in all directions		L	H
					mm	Inch		
SD-UFT-25	DN 25	1	33.7	55	± 37.5	± 1.5	262	380
					± 100.0	± 4.0	364	510
					± 200.0	± 8.0	435	888
SD-UFT-32	DN 32	1¼	42.4	55	± 37.5	± 1.5	300	410
					± 100.0	± 4.0	383	535
					± 200.0	± 8.0	460	987
SD-UFT-40	DN 40	1½	48.3	55	± 37.5	± 1.5	338	435
					± 100.0	± 4.0	402	585
					± 200.0	± 8.0	490	1099
SD-UFT-50	DN 50	2	60.3	55	± 37.5	± 1.5	414	485
					± 100.0	± 4.0	466	635
					± 200.0	± 8.0	535	1233
SD-UFT-65	DN 65	2½	76.1	55	± 37.5	± 1.5	491	535
					± 100.0	± 4.0	490	715
					± 200.0	± 8.0	590	1339
SD-UFT-80	DN 80	3	88.9	55	± 37.5	± 1.5	568	585
					± 100.0	± 4.0	566	762
					± 200.0	± 8.0	640	1438
SD-UFT-100	DN 100	4	114.3	55	± 37.5	± 1.5	720	715
					± 100.0	± 4.0	718	890
					± 200.0	± 8.0	770	1742
SD-UFT-125	DN 125	5	141.3	60	± 37.5	± 1.5	882	815
					± 100.0	± 4.0	880	1020
					± 200.0	± 8.0	880	1905
SD-UFT-150	DN 150	6	168.3	60	± 37.5	± 1.5	1034	940
					± 100.0	± 4.0	1040	1170
					± 200.0	± 8.0	1040	2108
SD-UFT-200	DN200	8	219.1		± 37.5	± 1.5	000	000
					± 100.0	± 4.0	000	000
					± 200.0	± 8.0	1355	2500
SD-UFT-250	DN250	10	273		± 37.5	± 1.5	000	000
					± 100.0	± 4.0	000	000
					± 200.0	± 8.0	1660	2874

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Miscellaneous Data:

1. Ordering Information

Example: SD-UFW-1

- SD-UF 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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