



# HINGE DOUBLE 3.5-25 BAR

## Specification:

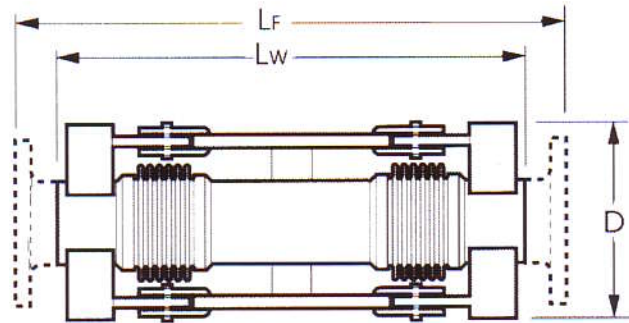
Bellows : Austenitic Stainless Steel  
 Weld End : Carbon Steel Or Stainless Steel  
 Flanges : Carbon Steel BS, ANSI, DIN

## Notes

- Unit weights are estimated and refer to weld end unit.
- To increase lateral movement capability, the overall length of the unit must be increased.  
 New length of unit = Original length + NX

Where

N is number of additions  $\pm 25$  mm increments of lateral movement required.  
 X is tabulated below. New lateral spring rate =  $\frac{1 \times \text{Original lateral rate}}{(N + 1)^2}$



N.B.	Press.	Movement		Overall length		Pipe O.D.	Thick	Weld end	Flange end	X length	Angl'r mvt./ bellow $\pm$ Deg.	Lat'l spring rate N/mm	Angl'r spring rate NM/°	Approx. Wt. Kg
		Total Lat'l	Lat'l $\pm$	Weld end Lw	Flange end LF									
mm	Bar g	mm	mm	mm	mm	mm	mm	Dw mm	DF mm	mm		N/mm	NM/°	Kg
80	6	50	25	555	575	88.9	To be Specified by Purchaser	205	205	197	10	4.3	1.6	9
	10	50	25	555	575	88.9		205	205	197	10	4.3	1.6	9
	16	50	25	590	590	88.9		205	205	200	10	6.2	1.6	11
	25	50	25	360	580	88.9		210	210	200	10	12.3	4.3	9
100	6	50	25	630	650	114.3		235	235	224	10	4.9	3	12
	10	50	25	630	650	114.3		235	255	224	10	4.9	3	12
	16	50	25	650	680	114.3		235	255	235	10	6.7	3	14
	25	50	25	620	640	114.3		260	260	220	10	16.1	6.8	14
125	6	50	25	630	650	141.3		280	280	224	10	8.3	5.1	14
	10	50	25	630	650	141.3		280	280	224	10	8.3	5.1	16
	16	50	25	650	670	141.3		280	280	235	10	11.4	5.1	21
	25	50	25	620	640	141.3		290	290	220	10	25.2	10.6	30
150	6	50	25	680	700	168.3		300	300	221	10	20.3	8.7	16
	10	50	25	680	700	168.3		300	330	221	10	20.3	8.7	20
	16	50	25	700	720	168.3		300	330	231	10	27.8	8.7	25
	25	50	25	680	700	168.3		320	330	220	10	44.6	18.9	38
200	6	50	25	700	720	219.1	350	355	221	10	40.6	17.2	40	
	10	50	25	700	720	219.1	350	380	221	10	40.6	17.2	42	
	16	50	25	720	740	219.1	350	380	231	10	55.5	17.2	34	
	25	50	25	700	740	219.1	395	405	220	10	88.9	37.6	63	
250	6	50	25	740	760	273	435	410	221	10	74	31.4	45	
	10	50	25	740	760	273	435	450	221	10	74	31.4	45	
	16	50	25	760	780	273	435	450	231	10	101	31.4	50	
	25	50	25	740	760	273	450	480	220	10	162	68.5	105	

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N.B.	Press.	Movement		Overall length		Pipe O.D.	Thick	Weld end	Flange end	X length	Angl'r mvt./ bellow ± Deg.	Lat'l spring rate	Angl'r spring rate	Approx. Wt.
		Total Lat'l	± Lat'l	Weld end Lw	Flange end LF									
mm	Bar g	mm	mm	mm	mm	mm	mm	Dw mm	DF mm	mm	± Deg.	N/mm	NM/°	Kg
300	3.5	50	25	755	790	323.9	To be Specified by Purchaser	505	515	218	9.5	183	36.9	45
	6	50	25	770	790	323.9		510	520	224	9.5	168	73.8	45
	10	50	25	770	790	323.9		510	520	224	9.5	168	73.8	60
	16	50	25	805	825	323.9		510	535	242	9.5	211	110.7	70
	25	50	25	895	915	323.9		550	630	286	9.5	320	229	140
350	3.5	50	25	755	610	355.6		535	610	218	8.5	192	48.5	130
	6	50	25	820	630	355.6		540	610	224	8.5	221	96.9	145
	10	50	25	820	630	355.6		540	650	224	8.5	221	96.9	170
	16	50	25	905	735	355.6		540	680	242	8.5	285	145	235
	25	50	25	1045	735	355.6		580	730	286	8.5	418	298	295
400	3.5	50	25	810	630	406.4		580	680	218	7.5	217	70.5	140
	6	50	25	870	655	406.4		595	680	224	7.5	321	141	150
	10	50	25	870	655	406.4		595	735	224	7.5	321	141	195
	16	50	25	995	760	406.4		635	760	242	7.5	495	211	305
	25	50	25	1095	760	406.4		670	805	286	7.5	611	436	370
450	3.5	50	25	865	650	457.2		660	710	224	6.5	217	94.5	170
	6	50	25	920	680	457.2		685	710	224	6.5	430	189	175
	10	50	25	920	680	457.2		685	805	224	6.5	430	189	265
	16	50	25	1005	775	457.2		685	840	242	6.5	556	283	340
	25	50	25	1145	775	457.2		720	885	286	6.5	843	601	465
500	3.5	50	25	930	670	508		720	790	242	6	262	134	180
	6	50	25	990	690	508		740	790	242	6	578	268	520
	10	50	25	990	690	508		740	890	242	6	528	268	330
	16	50	25	1055	790	508		775	925	242	6	794	401	495
	25	50	25	1190	790	508		830	965	286	6	1162	830	550
600	3.5	50	25	930	690	609.6		835	970	290	5	306	226	310
	6	50	25	985	705	609.6		840	990	290	5	612	451	260
	10	50	25	985	705	609.6		840	990	290	5	612	451	490
	16	50	25	1100	805	609.6	875	1005	290	5	918	677	680	
	25	50	25	1154	805	609.6	930	1020	290	5	1898	1395	875	
700	3.5	50	25	1030	710	711.2	980	1110	323	4.5	481	438	405	
	6	50	25	1090	750	711.2	1005	1135	323	4.5	962	876	330	
	10	50	25	1090	750	711.2	1005	1135	323	4.5	962	876	695	
	16	50	25	1205	1360	711.2	1005	1150	323	4.5	1145	1314	1190	
750	3.5	50	25	1030	730	762	1010	1165	323	4.5	566	515	510	
	6	50	25	1090	780	762	1035	1210	323	4.5	1130	1030	365	
	10	50	25	1090	780	762	1035	1210	323	4.5	1130	1030	870	
	16	50	25	1205	1390	762	1095	1225	323	4.5	1696	1545	1320	
800	3.5	50	25	1120	750	812.8	1145	1250	363	4	557	643	615	
	6	50	25	1090	855	812.8	1160	1285	363	4	1114	1286	465	
	10	50	25	1090	855	812.8	1160	1285	363	4	1114	1286	1045	
	16	50	25	1295	1420	812.8	1185	1300	363	4	1673	1930	1570	