

Stainless Steel Flexible Hose



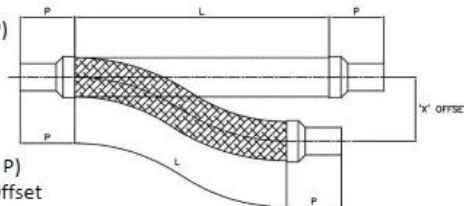
FLEXING INSTALLATIONS CHART

STATIC FLEXING

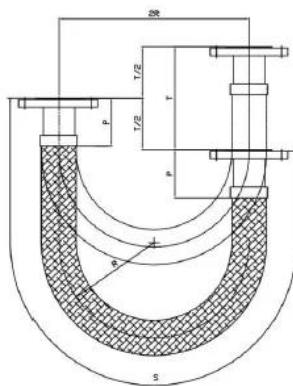
Minimum Overall Length = $L \text{ (Static)} + (2 \times P)$
 P = Dimension of the end fittings

INTERMITTENT FLEXING

Minimum Overall Length = $L \text{ (Flexing)} + (2 \times P)$
 L = Dimension from chart below for "X" Offset
 P = Dimension of the end fittings



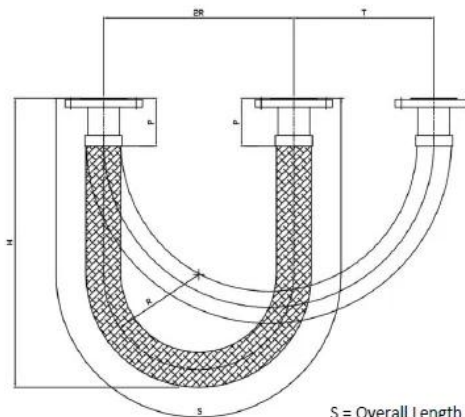
LENGTH "L" mm (FREE HOSE LENGTH)													
Nominal Bore (mm)	Static (mm)	Dimension "X" mm Offset											
		15	25	35	50	75	100	125	150	175	200	225	250
6	85	140	180	215									
10,12	90	150	190	225	290								
20	95	170	220	255	310								
25	105	185	240	280	335	425							
32	110	205	260	305	365	450							
40	140	250	320	370	440	530	610						
50	170	300	380	440	520	630	730	800	870	940			
65	200	340	430	500	590	720	880	920	1000	1070	1130	1190	
80	215	380	500	580	680	820	940	1040	1140	1230	1310	1380	1450
100	230	405	525	610	720	875	1005	1120	1225	1325	1415	1490	1560
125	245	430	550	640	760	930	1070	1200	1310	1420	1520	1590	1670
150	280	510	650	760	910	1100	1270	1420	1560	1690	1800	1900	1990
200	320	560	710	830	990	1210	1400	1560	1720	1860	1990	2100	2210
250	360	620	780	900	1070	1320	1510	1690	1820	2010	2160	2290	2340



VERTICAL LOOP
 (Maximum Travel about a fixed point)

Vertical Movement
 $S = 1.2R + T/2 + 2P$

IMPORTANT: In Loop Installations, both end terminations and travel should be in the same plane as the bend.



VERTICAL LOOP
 (Short Horizontal Travel)

Horizontal Movement
 $S = 1.2(R + T/2) + 2P$

S = Overall Length

R = Bend radius (MUST NOT be less than the minimum bend radius of the hose type)

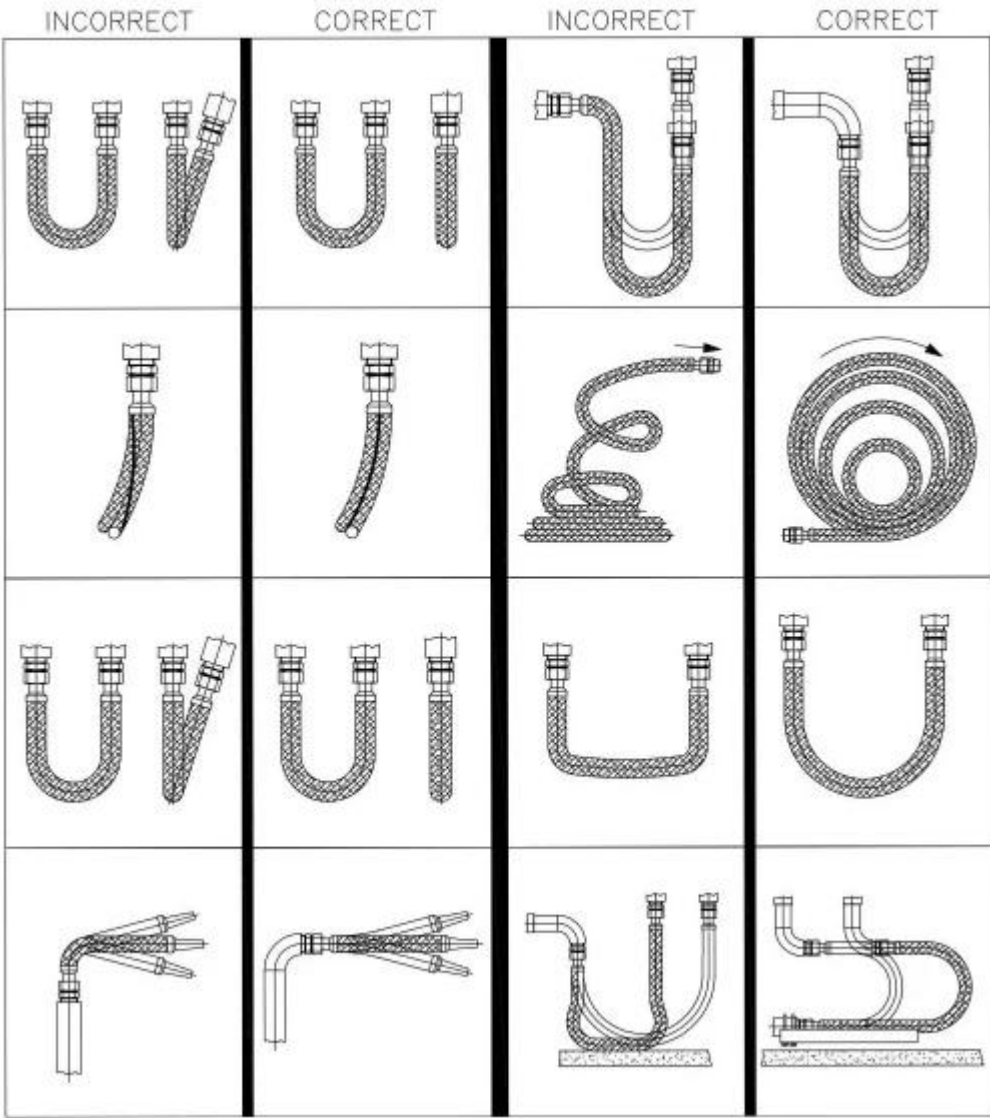
P = Length over end fitting and weld collar

H = Height

Stainless Steel Flexible Hose



INSTALLATION GUIDE- DO'S & DON'T'S



Stainless Steel Flexible Hose



Nominal Diameter	Internal Diameter I/D (mm)	Braids	Outside Diameter O/D (mm)	Minimum Bend radius Static	Minimum Bend radius Dynamic (mm)	Maximum Safe Working Pressure (Kg/cm ²)	Maximum Test Pressure (Kg/cm ²)	Minimum Burst Pressure (Kg/cm ²)
3/4"	20.5	0	27.0	70	170	3	4.5	12
		1	28.5			64	96	256
		2	30.0			102	154	410
1"	25.6	0	34.0	85	190	3	4.5	12
		1	35.5			50	75	200
		2	37.0			80	120	320
1 1/4"	32.6	0	41.0	105	260	2	3	8
		1	42.5			40	60	160
		2	44.0			64	96	256
1 1/2"	40.6	0	51.2	130	300	2	3	8
		1	52.5			35	52.5	140
		2	54.0			56	84	224
2"	50.7	0	65.0	160	320	1	2.5	4
		1	67.0			30	45	120
		2	69.0			48	72	192
2 1/2"	65.6	0	81.0	180	410	1	1.5	4
		1	83.0			24	36	96
		2	85.0			38	58	154
3"	80.3	0	95.0	200	450	0.6	0.9	2.4
		1	97.0			18	27	72
		2	99.0			29	45	115
4"	100.8	0	117.0	290	560	0.5	0.75	2
		1	119.0			16	24	64
		2	121.5			26	38	102
5"	125.4	0	150.0	325	710	0.5	0.8	2
		1	152.5			14	21	56
		2	155.0			22	34	90
6"	150.8	0	175.0	380	815	0.3	0.45	1.2
		1	177.5			10	15	40
		2	180.0			16	24	64