

SPECIFICATIONS : IDS- DOUBLE SPHERE EPDM FLEXIBLE CONNECTION

Model	D.NOM. PIPE SIZE		L: FACE TO FACE LENGTH		LATERAL DEFLECTION (±)		AXIAL EXTENSION		AXIAL COMPRESSION		ANGULAR	WEIGHT		WORKING PRESSURE WITHOUT CONTROL ROD	WORKING PRESSURE WITH CONTROL ROD	WORKING TEMPERATURE RANGE	QTY
	in	mm	in	mm	in	mm	in	mm	in	mm		deg.	lbs.				
IDS-1.5	1 ½	7	178	1.75	45	1.125	29	2	50	45	9	4	150 PSI AT 170 °F OPERATING TEMPERATURE	225 PSI AT 170 °F OPERATING TEMPERATURE	20 °F TO 250 °F		
IDS-2	2	7	178	1.75	45	1.125	29	2	50	45	12	5					
IDS-2.5	2 ½	7	178	1.75	45	1.125	29	2	50	43	15	7					
IDS-3	3	7	178	1.75	45	1.125	29	2	50	38	17	8					
IDS-4	4	9	229	1.5	38	1.375	35	2	50	34	23	10	135 PSI AT 170 °F OPERATING TEMPERATURE				
IDS-5	5	9	229	1.5	38	1.375	35	2	50	29	27	12					
IDS-6	6	9	229	1.5	38	1.375	35	2	50	25	36	16	90 PSI AT 170 °F		* Note the Correction factor table for operating pressure for different Temp.		
IDS-8	8	13	330	1.375	35	1.375	35	2.375	61	19	49	22					
IDS-10	10	13	330	1.375	35	1.375	35	2.375	61	15	71	32					
IDS-12	12	13	330	1.375	35	1.375	35	2.375	61	13	98	44					

Maximum Operating Conditions

Temp (°F)	Pressure Correction Factor
170	1
185	0.95
200	0.9
212	0.75
225	0.60
235	0.42
250	0.25

Example:

- IDS-4 **without** control rods working pressure @ 170 °F is 150 PSI , At 225 °F Working Pressure is reduced to 90 PSI (0.6X150=90 PSI)
- IDS-4 **with** control rods working pressure @ 170 °F is 225 PSI , At 225 °F Working Pressure is reduced to 135 PSI (0.6X225=135 PSI)

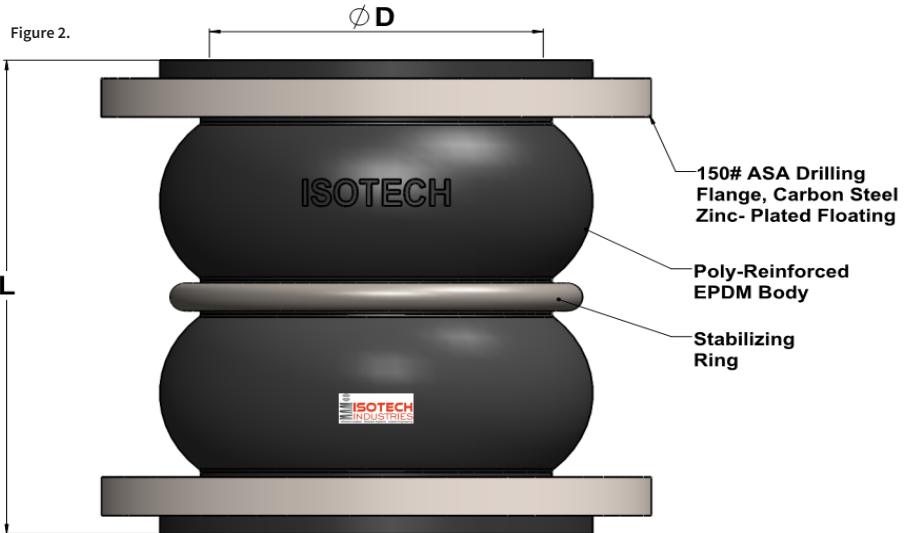
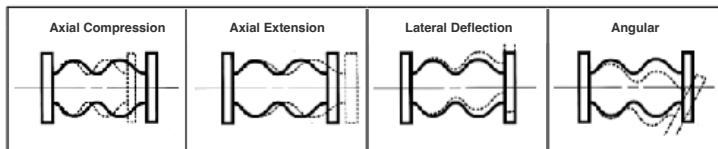


Figure 1. ALLOWABLE MOVEMENTS



Important Notes:

- Movements listed cannot occur at the same time
- Maximum Negative Pressure 20 in HG Vacuum
- Safety factor 3:1 (burst to operating pressure)
- Vulcanized Rubber bellows (tube and cover) are made of EPDM and reinforced by multiple nylon cords
- Contact Factory for other size and material

PROJECT INFORMATION		EQUIPMENT INFORMATION		Canada location	USA Location
Customer:		Type:		35 Silton Road Woodbridge ON L4L 7Z8 CANADA T: 905-856-5001	3021 E Coronado St. Anaheim, CA.,92806 U.S.A T: 949-788-2930
Project:		Qty Required:			
Drawing No:		Operating Weight:			
Notes:				Tool free: 1-888-831-3311 www.isotechindustries.com	

