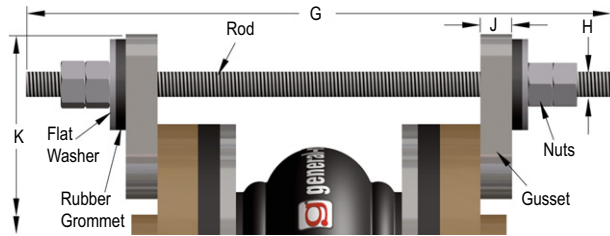


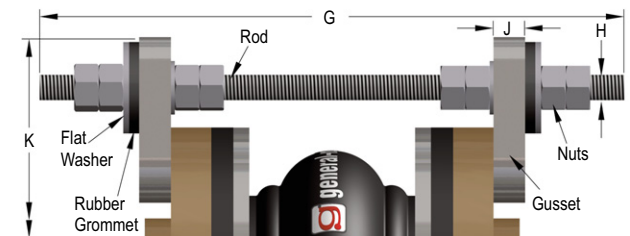
## Carbon Steel Control Units Data

Sizes 1" [DN25] - 108" [DN2700] - 150-lb Drilling | 0000-0000-3.16

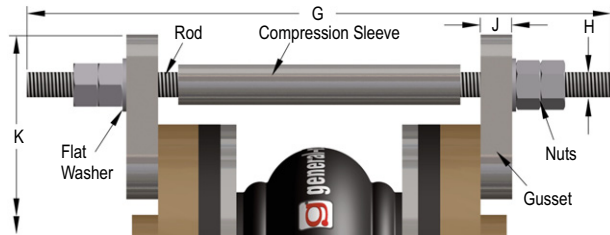
Outer Grommet, Inner Bare (GR/B)



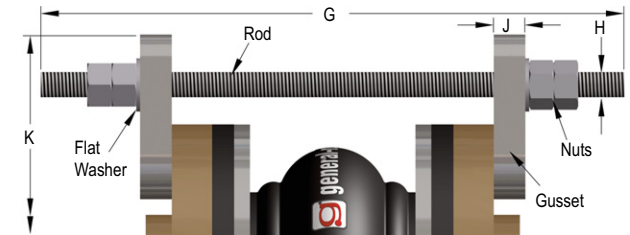
Outer Grommet, Inner Washer (GR/W)



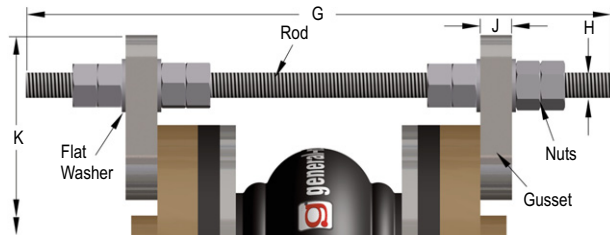
Inner Compression Sleeve (W/S)



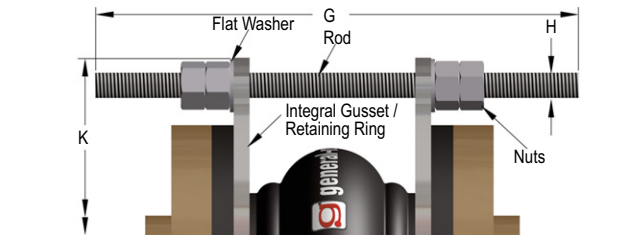
Outer Washer, Inner Bare (W/B)



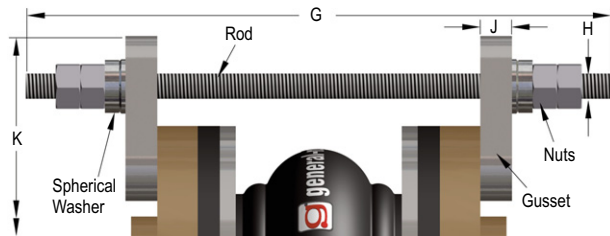
Outer & Inner Washer (W/W)



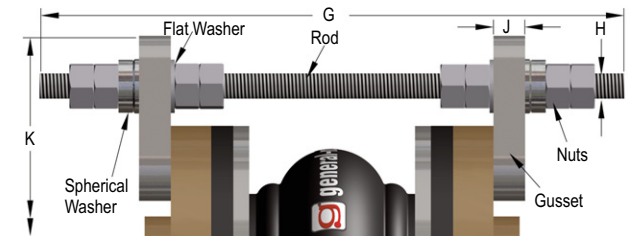
Outer Washer, Inner Bare Integral Design (INT-WB)



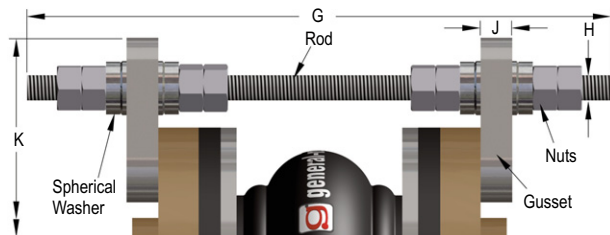
Outer Spherical Washer, Inner Bare (SW/B)



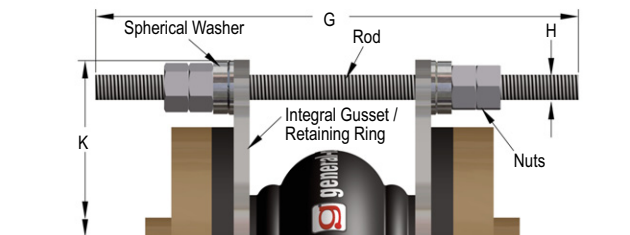
Outer Spherical Washer, Inner Washer (SW/W)



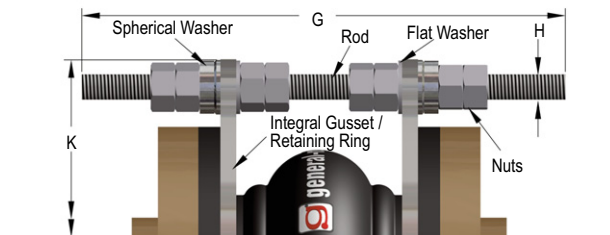
Outer & Inner Spherical Washer (SW/SW)



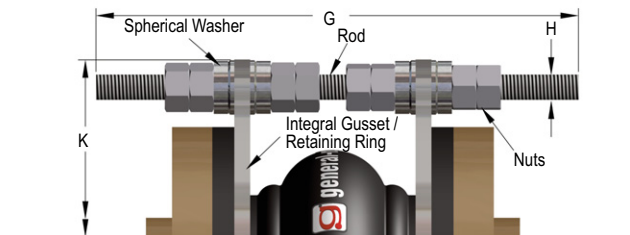
Outer Spherical Washer, Inner Bare Integral Design (INT-SWB)



Outer Spherical Washer, Inner Washer Integral Design (INT-SWW)



Outer & Inner Spherical Washer Integral Design (INT-SWSW)





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800-233-6294

Customer: \_\_\_\_\_ Date: \_\_\_\_\_

Job/Project: \_\_\_\_\_

Ref/Tag: \_\_\_\_\_

## Carbon Steel Control Units Data

Sizes 1" [DN25] - 108" [DN2700] - 150-lb Drilling | 0000-0000-3.16

Pipe Size ID (in)	2 Rod Set Max Pressure (psi)	3 Rod Set Max Pressure (psi)	4 Rod Set Max Pressure (psi)	5 Rod Set Max Pressure (psi)	6 Rod Set Max Pressure (psi)	7 Rod Set Max Pressure (psi)	8 Rod Set Max Pressure (psi)	9 Rod Set Max Pressure (psi)	Rod Dia. "H" (in)	Gusset Thk. "J" (in) (mm)	Gusset wt. (lb)	Max Gusset OD "K" (in)	Max Rod Length "G" (in)	Pipe Size ID (in)	
1	300	-	-	-	-	-	-	-	5/8"	0.39	10	0.9	8.6	16	1
1.5	300	-	-	-	-	-	-	-		0.39	10	1.0	9.3	16	1.5
2	350	-	-	-	-	-	-	-		0.55	14	1.7	10.3	16	2
2.5	350	-	-	-	-	-	-	-		0.39	10	1.3	10.8	16	2.5
3	350	-	-	-	-	-	-	-					11.3	16	3.0
4	350	-	-	-	-	-	-	-		0.55	14	1.7	13.3	16	4
5	300	-	-	-	-	-	-	-		0.79	20	3.0	14.4	16	5.0
6	250	-	-	-	-	-	-	-					15.4	16	6
8	300	-	-	-	-	-	-	-					17.9	16	8
10	287	300	-	-	-	-	-	-					20.3	16	10
12	199	275	-	-	-	-	-	-		0.79	20	3.1	23.3	16	12
14	216	275	-	-	-	-	-	-					24.6	21	14
16	166	249	275	-	-	-	-	-	0.98	25	4.2	27.3	21	16	
18	131	196	262	275	-	-	-	-				28.9	21	18	
20	106	159	212	225	-	-	-	-				31.1	21	20	
22	87	131	175	190	-	-	-	-				33.4	21	22	
24	73	110	147	184	190	-	-	-	0.98	25	4.3	35.9	21	24	
30	85	128	150	-	-	-	-	-				-	-	-	43.5
32	75	113	140	-	-	-	-	-	1.38	35	8.3	46.8	29	32	
34	66	100	130	-	-	-	-	-				48.7	29	34	
36	59	89	119	125	-	-	-	-				51.0	29	36	
40	48	72	96	120	125	-	-	-				55.5	29	40	
42	43	65	87	109	125	-	-	-				57.9	29	42	
44	39	59	79	99	110	-	-	-				60.0	29	44	
48	55	82	110	-	-	-	-	-	1.97	50	15.5	65.3	32	48	
52	47	70	94	110	-	-	-	-				70.3	32	52	
54	43	65	87	109	110	-	-	-				72.6	32	54	
56	40	60	81	101	110	-	-	-				74.8	32	56	
60	35	53	70	88	106	110	-	-				79.1	32	60	
62	33	49	66	82	99	110	-	-				81.6	32	62	
64	31	46	62	77	93	108	110	-				83.9	32	64	
66	29	43	58	73	87	102	110	-				85.9	32	66	
72	24	36	49	61	73	85	98	105				92.4	32	72	
78	20	31	41	52	62	73	83	94				98.9	32	78	
84	26	40	53	67	80	94	95	-	1.97	50	24.1	106.7	35	84	
90	23	35	46	58	70	81	90	-				113.4	35	90	
96	20	30	41	51	61	72	82	85				120.1	35	96	
102	18	27	36	45	54	63	72	80				126.9	35	102	
108	16	24	32	40	48	56	65	73	1.97	50	26.3	133.5	35	108	

- Maximum Control Unit lengths and diameters, as well as gusset thickness, are meant to assist in determining adequate clearance and mating hardware selection. The values are maximum values and are based on mild steel design. Dimensions will change when using high tensile steel and with different arrangements. Contact General Rubber and request a specific submittal drawing for your job.
- Expansion joints should be installed between anchors. Anchors should be located at changes in pipe direction and guides should be spaced accordingly to industry standards. Piping must be supported so the expansion joints do not carry any pipe weight. Contact General Rubber for more details.

- WARNING:** Control Units (sold separately) must be used when piping is not properly anchored. Number of rods are dependent upon maximum field test pressures. Expansion joints may operate in pipelines carrying fluids at elevated temperatures and pressures, so precaution should be taken to ensure proper installation and regular inspection. Care is required to protect personnel in the event of leakage or splash. Adequate floor drains are always recommended.
- Outer and inner Control Unit gaps are set to a maximum of 1/2 the allowable movements, equal on each side so that the sum does not exceed the allowable movement in any direction.