



# PC-35

## PUMP CONNECTOR

The PC-35 Pump Connectors are designed specifically to reduce and isolate noise and vibration from pumps and other operating equipment. Available with working pressures up to 300 psi, and all types of elastomers including Teflon lining, these connectors are widely used in various industries from mining to food processing. PC-35 style Pump Connectors also come in eccentric and concentric taper types. Contact EVR for information on the many size variations available. Pump Connectors must be protected from axial piping movement by using pipe anchors or control units as required.

# CONTROL UNITS

Expansion joints and pump connectors are not designed to support weight or limit pipe movement. Excess movement may be the result of abnormal temperature fluctuations, pressure surges, or insufficient anchoring or guiding of the piping. Where these situations occur, control units must be used to limit the amount and direction of movement to within the design limits of the flexible connection.

Control units consist of adaptor plates which are bolted to the back of the mating pipe flanges. These plates are connected by a tie rod which limits the axial extension. In cases where excess compression is anticipated, an optional sleeve is fitted over the tie rod to limit movement in both directions. The minimum number of control rods

needed in a control unit is two; however depending on size or pressure, more may be required. The chart below can be used to determine the requirements for your application.

Nominal Pipe Size Exp. J.T. (Inches)	Maximum Surge or Test Pressure of the System (PSIG.)					Nominal Pipe Size Exp. J.T. (Inches)	Maximum Surge or Test Pressure of the System (PSIG.)				
	Number of Control Rods Recommended						Number of Control Rods Recommended				
ID	2	3	4	6	8	ID	2	3	4	6	8
1/2	1328	--	--	--	--	30	70	105	141	211	281
3/4	1106	--	--	--	--	32	63	94	125	188	251
1	949	--	--	--	--	34	72	107	143	215	286
1-1/4	830	--	--	--	--	36	69	103	138	207	276
1-1/2	510	--	--	--	--	38	63	94	125	188	251
2	661	--	--	--	--	40	42	63	85	127	169
2-1/2	529	--	--	--	--	42	48	72	96	144	192
3	441	--	--	--	--	44	44	66	88	133	177
3-1/2	365	574	729	--	--	46	41	61	82	122	163
4	311	467	622	--	--	48	40	60	81	121	161
5	135	353	470	--	--	50	37	56	75	112	150
6	186	278	371	--	--	52	35	53	70	105	140
8	163	244	326	--	--	54	43	64	86	128	171
10	163	244	325	488	--	56	40	60	80	120	160
12	160	240	320	481	--	58	37	56	75	113	150
14	112	167	223	335	--	60	35	53	71	106	141
16	113	170	227	340	435	62	33	50	66	100	133
18	94	141	187	281	375	66	30	44	59	89	119
20	79	118	158	236	315	72	25	38	50	75	101
22	85	128	171	256	342	78	28	42	56	84	112
24	74	110	147	221	294	84	24	37	49	73	98
26	62	93	124	186	248	90	26	40	53	79	106
28	65	98	130	195	261	96	29	43	58	86	115

