



PIPELINE ISOLATION JOINTS

REVISION 1

APPLICATION

In addition to flange insulation kits Cathodic Protection Co Ltd supply boltless factory assembled and tested monolithic flange insulation joints, which can be delivered direct to site ready for welding into the main pipeline. Monolithic insulating joints are used for the sectioning of main pipelines and service pipelines to ensure adequate Cathodic protection and electrical safety.

PIPELINE ISOLATION JOINTS DATA



Size Range :	0.5 to 100 inch and over
Rating Class :	ANSI 150 To ANSI 2500 and over.
Electrical Tests (in dry air at 25 Deg C) :	Dielectric strength test 3000V at 50Hz AC for 1 Minute Electrical resistance test > 5 MOhm at 1000V DC
Characteristics :	Max operating pressure equal to the Nominal Pressure (PN/ANSI rating) Test pressure 1.5 times the design pressure Operating temp - 10 to + 70 °C for normal temps, -10 to + 160 °C for high temps Carbon Steel Stratified epoxy resin and glass fibre Class G10-G11 Sealing O-rings & Epoxy resin fill Epoxy resin internal/external coating 70 micron DFT



PIPELINE ISOLATION JOINTS

REVISION 1

TYPES AND DIMENSIONS AVAILABLE (OVER PN 10 RATING)

Inch	Type 1				Thk		Type 2				Thk		Type 3				Thk	
	A	B	C	D	kg.	Min	A	B	C	D	kg	Min.	A	B	C	D	kg	Min.
1/2	21.3	60	44	300	2.77	0.9	21.3	60	60	300	2.77	1	21.3	60	60	300	2.77	1
3/4	26.7	60	44	300	2.87	0.9	26.7	66	60	300	2.87	1.3	26.7	66	60	300	2.87	1.3
1	33.4	64	47	300	3.38	1.2	33.4	76	60	300	3.38	2	33.4	76	60	300	3.38	2
1 1/4	42.2	77	50	300	3.56	1.8	42.4	82	70	300	3.56	2.5	42.4	82	70	300	3.56	2.5
1 1/2	48.3	90	54	300	3.68	2.4	48.3	95	80	300	3.68	3.5	48.3	95	80	300	3.68	3.5
2	60.3	102	60	400	3.91	4.1	60.3	108	92	400	3.91	6	60.3	108	92	400	3.91	6
2 1/2	73.1	114	62	400	4.37	4.8	76.1	128	96	400	4.37	8.5	76.1	127	96	400	4.37	8.5
3	88.9	127	65	400	4.78	6.3	88.9	140	105	500	4.78	12	88.9	146	121	500	5.49	15
4	114.3	154	70	400	4.78	9.1	114.3	159	110	500	4.78	14	114.3	177	132	500	6.02	22
5	141.3	194	80	500	4.78	14.5	141.3	198	130	500	6.55	26	141.3	203	141	600	6.55	31
6	168.3	230	95	500	5.56	21	168.3	229	136	600	5.54	37	168.3	240	147	600	7.11	43
8	219.1	273	100	500	6.35	31	219.1	298	137	600	6.35	57	219.1	298	158	600	8.18	66
10	273.0	343	131	700	6.35	62	273.0	350	143	700	7.80	85	273.0	362	179	700	9.27	107
12	323.9	395	135	700	7.14	78	323.9	400	151	800	7.92	114	323.9	415	201	900	12.70	151
14	355.6	430	138	900	7.92	114	355.6	440	157	900	7.92	144	355.6	450	208	1000	12.70	214
16	406.4	483	143	900	7.92	133	406.4	490	162	1000	7.92	205	406.4	505	219	1000	12.70	231
18	457.2	535	158	1000	7.92	156	457.2	546	176	1000	9.52	224	457.2	568	244	1000	12.70	295
20	508.0	592	172	1000	7.92	205	508.0	604	193	1000	9.52	268	508.0	630	255	1000	12.70	370
22	558.8	645	178	1000	7.92	248	558.8	655	198	1200	9.52	347	558.8	688	278	1200	14.27	480
24	609.6	700	187	1000	9.52	292	609.6	720	204	1200	9.52	442	609.6	748	290	1200	15.88	585
26	660.4	750	200	1000	9.52	335	660.4	776	214	1200	12.70	522	660.4	813	306	1300	15.88	780
28	711.2	810	208	1200	9.52	380	711.2	830	221	1200	12.70	611	711.2	868	331	1300	17.48	885

- Dimensions in mm
- Alternative wall thickness on request

INSPECTION AND TEST

- Hydro-pneumatic test NDE examination
- Helium test Holiday and adhesion test
- Thermal shock test