System 2000 Couplers and Flange Adaptors

Total restraint for PE pipes.

TECHNICAL GUIDE: **APF2.1**

Applications

- Potable water
- Irrigation
- Wastewater
- Specialist applications

Product Attributes

- Remove and refit without replacing any parts
- Offer total restraint for PE
- Do not require support liners
- All weather installation
- Thrust blocks not required

Approvals/Standards

- Flanges drilled to table D

Total restraint for PE (PE 80/100) and PVC* pipes up to PN 16

Minimal pipe insertion force is required for pushing the pipe end into the seal with an appropriate chamfer. The pipe restraining system is separate from the sealing system and is activated by tightening the lock ring.

System 2000 Flange Adaptor, PE (PE 80/100) pipes up to PN 16

Material

- Flange and locking ring: ductile iron, epoxy powder coated
- Lip seal: Elastomer, suitable for potable water
- Flat gasket: Elastomer
- Grip ring: Ms 58 (up to DN 300 Rg7)
- Hexagonal bolts: A2 stainless
- For thin walled pipes and low internal pressure we recommend using a support liner

The use of lip seals enables the pipe to be pushed in with minimal force. The flange to flange seal is incorporated onto the flange. The pipe restraining system is effective separated from the sealing system and is activated by tightening the locking ring.

Full assembly instructions and witness mark guide supplied with every fitting.

*Note: *Where PVC OD matches PE OD dimensions*

FIG. 1

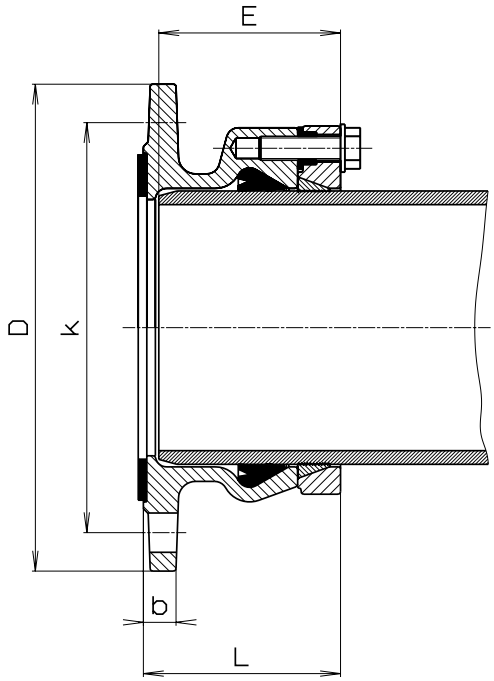

FIG. 2

TABLE 1

Flange DN	Pipe Ø (mm)	D	k	b	L (assembled)	E	Bolts		Weight
							Qty.	Thread	
40	50	150	98				4	M 12	
50	63	165	114	1`9	90	80	4	M 16	3.6
65	63	185	127	19	90	80	4	M 16	4.3
65	75	185	127	19	92	82	4	M 16	4.3
80	63	200	146	19	90	80	4	M 16	4.7
80	75	200	146	19	92	82	4	M 16	5.0
80	90	200	146	19	95	85	4	M 16	5.5
100	90	220	178	19	95	85	4	M 16	6.8
100	110	220	178	19	95	85	4	M 16	6.2
100	125	220	178	19	97	87	4	M 16	7.0
125	110	250	210	19	95	85	8	M 16	7.8
125	125	250	210	19	97	87	8	M 16	8.2
125	140	250	210	19	103	93	8	M 16	8.5
125	160	250	210	19	145	110	8	M 16	11.5
150	140	285	235	19	103	93	8	M 16	11.3
150	160	285	235	19	115	105	8	M 16	10.5
150	180	285	235	19	125	115	8	M 16	11.6
200	200	340	292	20	135	125	8	M 16	18.0
200	225	340	292	20	138	128	8	M 16	16.0
200	250	340	292	20	225	145	8	M 16	27.0
250	250	400	356	22	155	145	8	M 20	22.0
250	280	400	356	22	158	148	8	M 20	29.0
300	315	455	406	25	184	174	12	M 20	44.0
300	355	455	406	25	277	237	12	M 20	61.0
400	400	565	521	25	242	230	12	M 24	97.0
400	450	565	521	25	302	260	12	M 24	81.0
500	500	715	641	32	365	346	16	M 24	144.0
500	560	715	641	32	450	372	16	M 24	167.0
600	630	760	756	36	459	399	16	M 27	260.0

System 2000 Coupler, restraint for PE (PE 80/100) pipes up to PN 16

FIG. 3

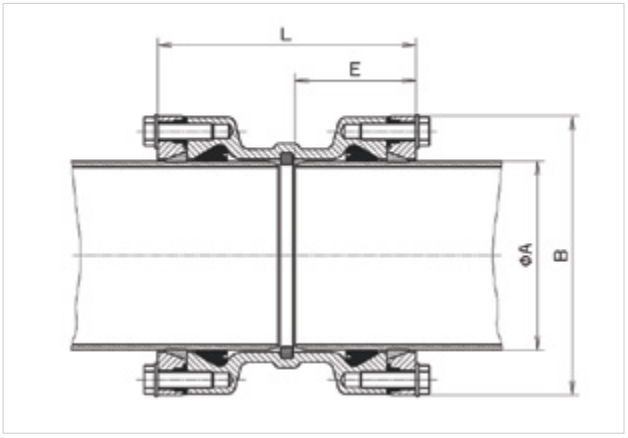

FIG. 4

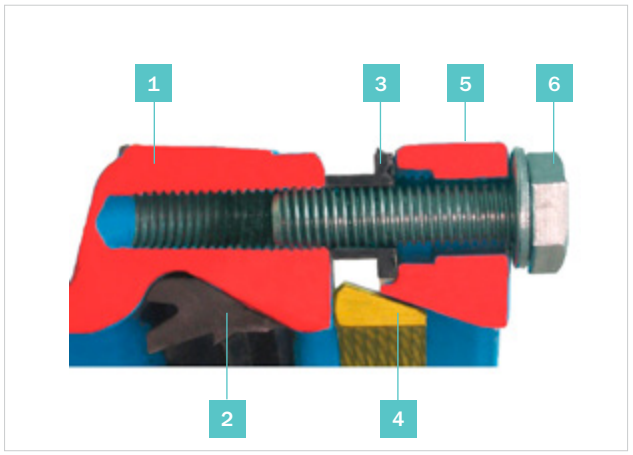

FIG. 5

Material

1. Body
2. Lip seal of elastomer, suitable for potable water
3. Spacer bushes of PE
4. Grip ring Ms 58 *(from DN 300 Rg7)*
5. Lock ring of ductile iron EN-GJS-400-18 according to EN 1563 *(GGG 400 - DIN 1693)*, epoxy powder coated
6. Bolts A 2 *(stainless)*

TABLE 2

Pipe Ø A (mm)	L	E	B	Weight (kg)
63	171	80	124	3.2
75	175	82	138	4.0
90	181	85	152	5.4
110	181	85	172	6.4
125	185	87	193	7.8
140	197	93	210	9.0
160	221	105	236	12.0
180	241	113	258	14.5
200	261	125	284	21.5
225	265	128	314	26.0
250	300	145	347	33.0
280	306	148	376	38.5
315	358	174	422	58.5
355	464	237	472	96.0