

# FLOWTITE® GRP JACKING PIPES (ID SERIES)



## TYPE SE JOINT - NON-PRESSURE

SN		32,000			40,000			50,000			64,000			80,000			100,000		
Pipe DN	D <sub>i</sub> (mm)	d <sub>od</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)	d <sub>od</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)	d <sub>od</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)	d <sub>od</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)	d <sub>od</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)	d <sub>od</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)
DN300	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	363	227	37
DN375	409	-	-	-	-	-	-	-	-	-	-	-	-	447	364	53	450	418	57
DN450	487	-	-	-	-	-	-	525	440	63	529	511	69	532	581	75	536	658	81
DN500	538	-	-	-	577	505	71	580	577	77	584	663	84	588	749	91	592	843	99
DN525	564	602	502	72	605	574	78	608	653	84	612	748	92	616	843	100	621	946	108
DN600	641	684	655	93	688	748	101	692	850	109	696	973	119	701	1,096	129	705	1,229	140
DN675	718	767	889	116	770	1,006	126	775	1,134	137	780	1,290	149	785	1,443	162	790	1,611	175
DN750	794	848	1,152	142	852	1,297	154	857	1,454	167	862	1,576	182	868	1,764	198	874	1,969	214
DN900	887	947	1,444	177	952	1,624	192	957	1,820	208	963	2,058	227	969	2,293	247	976	2,550	268
DN1000	985	1052	1,875	219	1057	2,098	237	1063	2,340	257	1070	2,633	280	1076	2,924	304	1084	3,241	330
DN1100	1084	1157	2,366	265	1163	2,636	287	1169	2,930	311	1177	3,286	339	1185	3,638	368	1193	4,023	399
DN1200	1181	1261	2,900	314	1267	3,221	340	1274	3,570	369	1282	3,993	403	1291	4,412	437	1300	4,870	474
DN1300	1280	1366	3,500	369	1373	3,877	400	1381	4,288	433	1390	4,786	473	1399	5,279	513	1408	5,817	557
DN1400	1378	1471	4,148	428	1479	4,586	463	1487	5,063	502	1496	5,640	548	1506	6,092	594	-	-	-
DN1500	1477	1577	4,733	491	1585	5,235	532	1593	5,783	576	1604	6,446	630	-	-	-	-	-	-
DN1600	1574	1680	5,474	558	1689	6,045	604	1698	6,667	654	-	-	-	-	-	-	-	-	-
DN1700	1674	1787	6,293	631	1796	6,940	683	1806	7,644	740	-	-	-	-	-	-	-	-	-
DN1800	1771	1891	7,142	706	1900	7,866	764	-	-	-	-	-	-	-	-	-	-	-	-
DN1900	1870	1996	8,063	787	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DN2000	1969	2102	9,039	873	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

This table shows jacking pipe dimensions and maximum allowable jacking force  $F_{perm}$  (kN) for various stiffness classes with closed connection contact. The table is based on a compressive strength of 85 MPa and a factor of safety of 3.5 in accordance with ISO 25780 "Plastics piping systems for pressure and non-pressure water supply, irrigation, drainage or sewerage – Glass-reinforced thermosetting plastics (GRP) systems based on unsaturated polyester (UP) resin – Pipes with flexible joints intended to be installed using jacking techniques".

### ABBREVIATIONS

- DN = Nominal diameter
- $F_{perm}$  = permissible jacking force (kN)
- d<sub>od</sub> = outside diameter (mm)
- SN = nominal stiffness (N/m/m)
- d<sub>i</sub> = internal diameter (mm)



The **Type SE** joint includes a stainless steel jacking band with a vulcanised elastomeric seal over the entire width. The standard seal is EPDM, however SBR or NBR seals are available on special request.

The Type SE joint is applicable for non-pressure PN1 applications.

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# FLOWTITE® GRP JACKING PIPES (ID SERIES)



## TYPE SE JOINT - NON-PRESSURE

SN		128,000			160,000			200,000			320,000			640,000			1,000,000		
Pipe DN	D <sub>i</sub> (mm)	d <sub>od</sub> (mm)	F <sub>perm</sub> (kN)	Mass (kg/m)	d <sub>od</sub> (mm)	F <sub>perm</sub> (kN)	Mass (kg/m)	d <sub>od</sub> (mm)	F <sub>perm</sub> (kN)	Mass (kg/m)	d <sub>od</sub> (mm)	F <sub>perm</sub> (kN)	Mass (kg/m)	d <sub>od</sub> (mm)	F <sub>perm</sub> (kN)	Mass (kg/m)	d <sub>od</sub> (mm)	F <sub>perm</sub> (kN)	Mass (kg/m)
DN300	330	366	269	41	369	311	44	372	357	48	380	469	58	394	683	75	406	860	90
DN375	409	454	483	63	457	548	68	461	619	74	471	793	88	489	1,123	116	503	1,399	138
DN450	487	540	751	89	545	844	96	549	945	105	561	1,193	125	582	1,664	164	599	2,057	196
DN500	538	597	957	108	602	1,071	117	607	1,195	128	620	1,498	152	643	2,075	200	661	2,504	239
DN525	564	626	1,072	119	631	1,196	129	636	1,333	140	649	1,667	167	674	2,249	219	693	2,776	263
DN600	641	711	1,391	153	717	1,552	166	723	1,729	181	738	2,160	216	766	2,981	283	-	-	-
DN675	718	797	1,815	192	803	2,018	209	810	2,240	227	827	2,783	271	-	-	-	-	-	-
DN750	794	881	2,218	235	888	2,466	255	896	2,738	277	914	3,401	331	-	-	-	-	-	-
DN900	887	984	2,862	293	992	3,172	318	1001	3,512	346	1021	4,342	413	-	-	-	-	-	-
DN1000	985	1093	3,627	361	1102	4,010	392	1111	4,431	426	-	-	-	-	-	-	-	-	-
DN1100	1084	1203	4,491	437	1212	4,956	475	-	-	-	-	-	-	-	-	-	-	-	-
DN1200	1181	1310	5,426	519	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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