

# FLOWTITE® GRP JACKING PIPES (OD SERIES)



## TYPE SE JOINT - NON-PRESSURE

SN	32,000			40,000			50,000			64,000			80,000			100,000			
	D <sub>od</sub> (mm)	d <sub>i</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)	d <sub>i</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)	d <sub>i</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)	d <sub>i</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)	d <sub>i</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)	d <sub>i</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)
376	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
401	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
427	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	388	362	52
501	-	-	-	-	-	-	-	-	-	-	461	442	62	458	496	66	455	554	71
530	-	-	-	-	-	-	-	491	451	64	488	514	69	485	575	74	482	640	79
550	-	-	-	-	-	-	-	510	499	69	506	567	75	503	633	80	500	703	85
616	577	534	75	574	602	81	571	674	87	567	759	93	564	842	100	560	929	107	
650	609	618	84	606	694	90	602	774	96	599	869	104	595	960	111	591	1,058	119	
718	673	747	102	669	839	110	666	936	117	661	1,052	127	657	1,164	136	653	1,283	145	
752	704	845	112	701	946	120	697	1,053	129	693	1,180	139	688	1,303	149	683	1,433	159	
820	768	1,059	133	764	1,179	143	760	1,306	153	755	1,457	165	750	1,603	177	745	1,758	189	
860	806	1,195	146	802	1,327	157	797	1,468	168	792	1,634	181	787	1,794	194	782	1,965	208	
924	866	1,357	169	861	1,509	181	856	1,671	194	851	1,863	209	846	2,048	224	840	2,245	240	
960	899	1,495	182	895	1,659	195	890	1,835	209	884	2,042	226	878	2,241	242	872	2,454	259	
1026	961	1,765	208	956	1,953	223	951	2,153	239	945	2,389	258	939	2,617	276	932	2,860	296	
1099	1029	2,089	239	1024	2,304	256	1019	2,533	274	1012	2,805	296	1006	3,067	317	999	3,345	339	
1229	1151	2,730	299	1145	2,999	320	1139	3,286	343	1132	3,626	370	1125	3,953	396	1117	4,302	424	
1280	1199	3,005	324	1193	3,297	347	1186	3,608	372	1179	3,976	401	1171	4,331	430	1163	4,709	460	
1348	1263	3,391	359	1256	3,715	385	1249	4,060	412	1241	4,468	445	1233	4,862	476	1225	5,281	510	
1434	1343	3,912	406	1336	4,278	436	1329	4,669	467	1321	5,131	504	1312	5,557	539	1303	6,051	577	
1499	1404	4,330	444	1397	4,731	476	1389	5,157	510	1380	5,662	550	1372	6,150	589	-	-	-	
1535	1438	4,449	466	1431	4,868	499	1423	5,316	535	1414	5,845	577	1405	6,356	618	-	-	-	
1638	1543	5,164	530	1527	5,642	568	1518	6,152	609	1508	6,755	657	-	-	-	-	-	-	
1720	1611	5,771	584	1603	6,298	626	1594	6,860	671	-	-	-	-	-	-	-	-	-	
1842	1725	6,736	670	1717	7,341	718	-	-	-	-	-	-	-	-	-	-	-	-	
1940	1817	7,565	743	1808	8,235	797	-	-	-	-	-	-	-	-	-	-	-	-	
2046	1916	8,514	827	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

This table shows jacking pipe dimensions and maximum allowable jacking force F<sub>perm</sub> (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 thermo-setting plastics (GRP) systems based on unsaturated polyester (UP) resin – Pipes with flexible joints intended to be installed using jacking techniques".

### ABBREVIATIONS

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



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 (OD SERIES)

## TYPE SE JOINT - NON-PRESSURE

SN	128,000			160,000			200,000			320,000			640,000			1,000,000			
	D <sub>od</sub> (mm)	d <sub>i</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)	d <sub>i</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)	d <sub>i</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)	d <sub>i</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)	d <sub>i</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)	d <sub>i</sub> (mm)	F <sub>perm</sub> (kN)	Mass(kg/m)
376	-	-	-	336	<b>327</b>	46	333	<b>367</b>	49	-	-	-	-	-	-	-	-	-	-
401	361	<b>347</b>	49	359	<b>389</b>	52	355	<b>434</b>	56	348	<b>537</b>	64	336	<b>710</b>	78	-	-	-	-
427	385	<b>412</b>	56	382	<b>459</b>	59	379	<b>510</b>	63	371	<b>626</b>	73	357	<b>823</b>	88	347	<b>967</b>	100	-
501	452	<b>622</b>	76	448	<b>688</b>	82	444	<b>758</b>	87	435	<b>918</b>	100	419	<b>1,189</b>	121	407	<b>1,387</b>	137	-
530	478	<b>716</b>	85	474	<b>790</b>	91	470	<b>868</b>	97	460	<b>1,047</b>	112	444	<b>1,351</b>	136	431	<b>1,573</b>	154	-
550	496	<b>785</b>	92	492	<b>864</b>	98	488	<b>948</b>	105	478	<b>1,141</b>	120	460	<b>1,468</b>	146	447	<b>1,707</b>	165	-
616	555	<b>1,032</b>	115	551	<b>1,132</b>	123	546	<b>1,237</b>	131	535	<b>1,479</b>	151	516	<b>1,889</b>	183	501	<b>2,189</b>	207	-
650	586	<b>1,173</b>	128	581	<b>1,283</b>	137	576	<b>1,400</b>	146	564	<b>1,670</b>	168	544	<b>2,127</b>	204	529	<b>2,461</b>	231	-
718	647	<b>1,423</b>	156	642	<b>1,558</b>	167	636	<b>1,701</b>	178	624	<b>2,030</b>	205	601	<b>2,587</b>	249	584	<b>2,995</b>	281	-
752	678	<b>1,587</b>	171	672	<b>1,735</b>	183	667	<b>1,892</b>	196	653	<b>2,252</b>	224	629	<b>2,864</b>	273	-	-	-	-
820	739	<b>1,941</b>	204	733	<b>2,117</b>	218	727	<b>2,303</b>	232	712	<b>2,732</b>	267	686	<b>3,460</b>	325	-	-	-	-
860	775	<b>2,166</b>	224	769	<b>2,359</b>	239	762	<b>2,564</b>	256	747	<b>3,036</b>	293	-	-	-	-	-	-	-
924	833	<b>2,477</b>	258	826	<b>2,701</b>	276	819	<b>2,937</b>	295	802	<b>3,482</b>	338	-	-	-	-	-	-	-
960	865	<b>2,704</b>	279	858	<b>2,946</b>	298	851	<b>3,201</b>	318	834	<b>3,789</b>	365	-	-	-	-	-	-	-
1026	925	<b>3,146</b>	318	917	<b>3,422</b>	340	909	<b>3,714</b>	364	-	-	-	-	-	-	-	-	-	-
1099	991	<b>3,673</b>	365	983	<b>3,989</b>	390	974	<b>4,324</b>	417	-	-	-	-	-	-	-	-	-	-
1229	1108	<b>4,712</b>	457	1099	<b>5,107</b>	488	-	-	-	-	-	-	-	-	-	-	-	-	-
1280	1154	<b>5,155</b>	495	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1348	1215	<b>5,775</b>	549	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 thermo-setting plastics (GRP) systems based on unsaturated polyester (UP) resin – Pipes with flexible joints intended to be installed using jacking techniques".



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