

FLOWTITE® GRP JACKING PIPES (OD SERIES)



TYPE GR & TYPE SR JOINT - NON-PRESSURE

SN	32,000			40,000			50,000			64,000			80,000			100,000			
	D _{od} (mm)	d _i (mm)	F _{perm} (kN)	Mass(kg/m)	d _i (mm)	F _{perm} (kN)	Mass(kg/m)	d _i (mm)	F _{perm} (kN)	Mass(kg/m)	d _i (mm)	F _{perm} (kN)	Mass(kg/m)	d _i (mm)	F _{perm} (kN)	Mass(kg/m)	d _i (mm)	F _{perm} (kN)	Mass(kg/m)
650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	591	852	119
718	-	-	-	-	-	-	-	-	-	-	-	-	-	657	992	136	653	1,111	145
752	-	-	-	-	-	-	-	-	-	-	-	-	-	688	965	149	683	1,095	159
820	-	-	-	-	-	-	-	760	937	153	755	1,088	165	750	1,234	177	745	1,389	189
860	-	-	-	-	-	-	-	797	1,079	168	792	1,246	181	787	1,406	194	782	1,576	208
924	-	-	-	-	861	1,164	181	856	1,327	194	851	1,518	209	846	1,703	224	840	1,900	240
960	899	1,024	182	895	1,188	195	890	1,363	209	884	1,570	226	878	1,770	242	872	1,983	259	
1026	961	1,261	208	956	1,448	223	951	1,648	239	945	1,885	258	939	2,113	276	932	2,356	296	
1099	1029	1,547	239	1024	1,763	256	1019	1,992	274	1012	2,263	296	1006	2,525	317	999	2,804	339	
1229	1151	2,027	299	1145	2,296	320	1139	2,583	343	1132	2,922	370	1125	3,250	396	1117	3,598	424	
1280	1199	2,271	324	1193	2,563	347	1186	2,875	372	1179	3,243	401	1171	3,598	430	1163	3,976	460	
1348	1263	2,618	359	1256	2,941	385	1249	3,287	412	1241	3,695	445	1233	4,089	476	1225	4,508	510	
1434	1343	2,863	406	1336	3,229	436	1329	3,620	467	1321	4,082	504	1312	4,528	539	1303	5,002	577	
1499	1404	3,232	444	1397	3,633	476	1389	4,060	510	1380	4,564	550	1372	5,052	589	-	-	-	
1535	1438	3,325	466	1431	3,745	499	1423	4,193	535	1414	4,722	577	1405	5,233	618	-	-	-	
1638	1534	3,964	530	1527	4,442	568	1518	4,952	609	1508	5,554	657	-	-	-	-	-	-	
1720	1611	4,104	584	1603	4,631	626	1594	5,193	671	-	-	-	-	-	-	-	-	-	
1842	1725	4,948	670	1717	5,552	718	-	-	-	-	-	-	-	-	-	-	-	-	
1940	1817	5,374	743	1808	6,044	797	-	-	-	-	-	-	-	-	-	-	-	-	
2046	1916	6,201	827	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

d_{od} = outside diameter (mm)

d_i = internal diameter (mm)

F_{perm} = permissible jacking force (kN)

SN = nominal stiffness (N/m/m)



The **Type GR** joint includes a GRP sleeve. The inner surface of the sleeve fits tightly to the EPDM wedge gasket seal embedded into a special groove on the pipe spigot.

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

The **Type SR** joint includes a stainless steel sleeve. The inner surface of the sleeve fits tightly to the EPDM wedge gasket seal embedded into a special groove on the pipe spigot.

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

The information contained in this document should serve as a guide only and is subject to change without notice. For more information please contact Iplex Pipelines Australia Pty Ltd.



FLOWTITE® GRP JACKING PIPES (OD SERIES)



TYPE GR & TYPE SR JOINT - NON-PRESSURE

SN	128,000			160,000			200,000			320,000			640,000			1,000,000			
	D _{od} (mm)	d _i (mm)	F _{perm} (kN)	Mass(kg/m)	d _i (mm)	F _{perm} (kN)	Mass(kg/m)	d _i (mm)	F _{perm} (kN)	Mass(kg/m)	d _i (mm)	F _{perm} (kN)	Mass(kg/m)	d _i (mm)	F _{perm} (kN)	Mass(kg/m)	d _i (mm)	F _{perm} (kN)	Mass(kg/m)
401	-	-	-	-	-	-	-	-	-	-	-	-	-	336	586	78	-	-	-
427	-	-	-	-	-	-	-	-	-	-	-	-	-	357	690	88	347	834	100
501	-	-	-	-	-	-	-	-	-	-	435	760	100	419	1,032	121	407	1,230	137
530	-	-	-	-	-	-	-	470	701	97	460	880	112	444	1,184	136	431	1,406	154
550	-	-	-	-	-	-	-	488	775	105	478	967	120	460	1,295	146	447	1,534	165
616	555	837	115	551	937	123	546	1,042	131	535	1,284	151	516	1,694	183	501	1,994	207	
650	586	967	128	581	1,077	137	576	1,194	146	564	1,464	168	544	1,921	204	529	2,255	231	
718	647	1,252	156	642	1,386	167	636	1,529	178	624	1,858	205	601	2,416	249	584	2,823	281	
752	678	1,249	171	672	1,397	183	667	1,554	196	653	1,914	224	629	2,526	273	-	-	-	
820	739	1,571	204	733	1,747	218	727	1,934	232	712	2,363	267	-	-	-	-	-	-	
860	775	1,778	224	769	1,971	239	762	2,176	256	747	2,648	293	-	-	-	-	-	-	
924	833	2,132	258	826	2,356	276	819	2,593	295	802	3,137	338	-	-	-	-	-	-	
960	865	2,233	279	858	2,474	298	851	2,730	318	834	3,318	365	-	-	-	-	-	-	
1026	925	2,642	318	917	2,917	340	909	3,209	364	-	-	-	-	-	-	-	-	-	
1099	991	3,132	365	983	3,448	390	974	3,783	417	-	-	-	-	-	-	-	-	-	
1229	1108	4,009	457	1099	4,404	488	-	-	-	-	-	-	-	-	-	-	-	-	
1280	1154	4,421	495	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

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