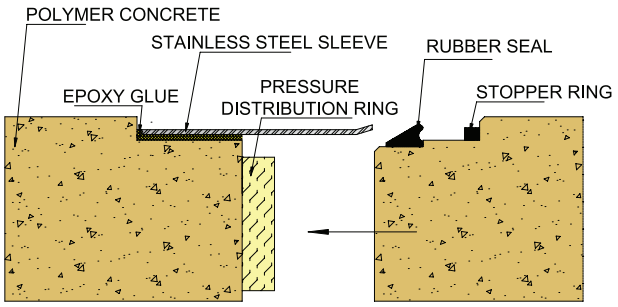
MEYER POLYCRETE
POLYMER CONCRETE PIPE

Polycrete polymer concrete pipe is a composite material consisting of polyester resin, quartz sand, silicate aggregate and quartz filler. As portland cement performs poorly in an acidic environment, it is not used as a binding agent. This unique jacking pipe uses a polyester resin to bond the kiln-dried silicate aggregate, thereby creating dense, corrosion-resistant matrix. For special industrial applications where added chemical resistance may be required, Polycrete can be produced using a vinyl ester resin.



ADVANTAGES & APPLICATIONS

ADVANTAGES

- Corrosion resistant material
- High compressive strength
- Longer drives
- Excellent hydraulic characteristics
- Stainless steel jointing system
- Manning's Coefficient m=.009
- Integrated corrosion resistance
- Lower maintenance costs
- Small diameters available-Ideal for use with GBMs

APPLICATIONS

- **Sewer Systems**: Sanitary and Stormwater sewer pipelines.
- **Water Supply Pipelines**: Water distribution pipelines.
- **Underground Utility Networks**: Conduit for telecommunications, electricity, and fiber optic cables.
- **Crossing Beneath Railroad**: Installing pipelines or conduit beneath railroad.

TECHNICAL DATA

Operating pressure: Non-pressure

Main material: Polyester resin, quartz sand, silicate aggregate and quartz filler.

Estimated lifetime: 100 years

External waterhead: 80 feet (35 psi)

Standard lengths: 8’ or 10’

Gasket material: Elastromeric EPDM or SBR rubber

Diameter range: 8” – 102”

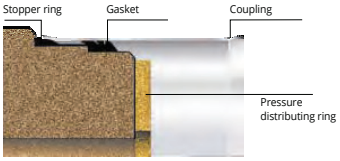
Allowable pushing forces: See Tables 6-1, 6-2, 6-3

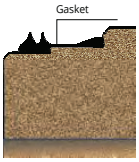
Industry Standards: ASTM D6783

MEYER POLYCRETE
POLYMER CONCRETE PIPE

Table 6-1

Polymer Concrete Jacking Pipe
Nominal Diameters 9-40
Profile Gasket

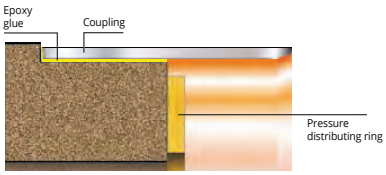


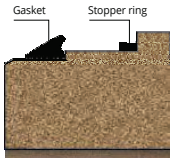


Internal Diameter DN		Outer Diameter OD		Wall Thickness T		Length L		Jacking Capacity			Pipe Weight	
(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(m)	(ft)	(SI ton)	(kN)	(US ton)	(kg/m)	(lbs/ft.)
250	9.8	360	14.2	55	2.2	1 and 2	3.3 and 6.6	59	580	65	120	81
300	11.8	400	15.7	50	2.0	1 and 2	3.3 and 6.6	61	600	67	125	84
400	15.7	550	21.7	75	3.0	1 and 2	3.3 and 6.6	145	1430	160	255	171
482	19.0	622	24.5	70	2.8	2.44	8.0	145	1430	160	270	181
500	19.7	660	26.0	80	3.1	2.00	6.6	180	1800	198	335	225
534	21.0	674	26.5	70	2.8	2.44	8.0	160	1600	176	300	202
600	23.6	760	29.9	80	3.1	2.00	6.6	210	2090	231	390	262
700	27.6	860	33.9	80	3.1	2.00	6.6	230	2250	254	445	299
800	31.5	960	37.8	80	3.1	2 to 3	6.6 to 9.8	270	2650	298	505	339
900	35.4	1100	43.3	100	3.9	2 to 3	6.6 to 9.8	380	3800	419	720	484
1000	39.4	1185	46.7	92.5	3.6	2 to 3	6.6 to 9.8	375	3680	413	735	494

Table 6-2

Polymer Concrete Jacking
Pipe Nominal Diameters
40-87 Single Gasket

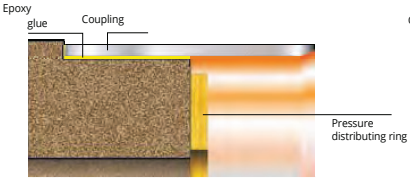


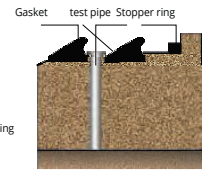


Internal Diameter DN		Outer Diameter OD		Wall Thickness t		Length L		Jacking Capacity			Pipe Weight	
(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(m)	(ft)	(SI ton)	(kN)	(US ton)	(kg/m)	(lbs/ft.)
1000	39.4	1185	46.7	92	3.6	2 and 3	3.3 and 6.6	360	3560	397	735	494
1000	39.4	1280	50.4	140	5.5	3	9.8	625	6150	689	1155	776
1200	47.2	1485	58.5	142	5.6	3	9.8	725	7110	799	1370	921
1400	55.1	1720	67.7	160	6.3	3	9.8	915	8980	1009	1810	1216
1600	63.0	1940	76.4	170	6.7	3	9.8	1135	11170	1251	2185	1468
1800	70.9	2160	85.0	180	7.1	3	9.8	1340	13145	1477	2580	1734
2000	78.8	2400	94.5	200	7.9	3	9.8	1670	16415	1841	3185	2140
2200	86.6	2630	103.5	215	8.5	3	9.8	1890	18570	2083	735	494

Table 6-3

Polymer Concrete Jacking Pipe
Nominal Diameters 95-102
Double Gasket for Hydrostatic Testing





Internal Diameter DN		Outer Diameter OD		Wall Thickness t		Length L		Jacking Capacity			Pipe Weight	
(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(m)	(ft)	(SI ton)	(kN)	(US ton)	(kg/m)	(lbs/ft.)
2400	94.5	2870	113.0	235	9.3	3	9.8	2240	21980	2469	1155	921
2600	104.4	3100	122.0	250	9.8	3	9.8	2550	25060	2811	1370	921