

DUCTILE IRON PIPE JOINTS AND DIMENSIONS



24" (600mm) diameter TYTON JOINT® Ductile Iron Pipe, on site, Kingston Ontario.

PIPE TAPPING

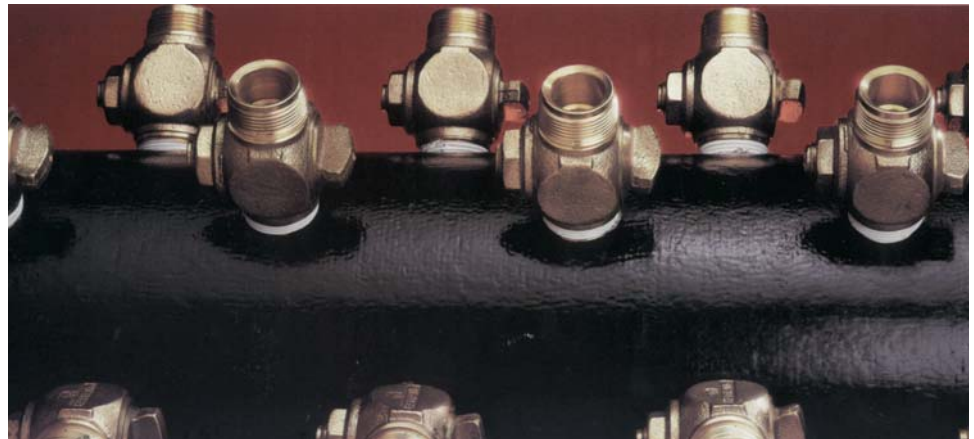
Pressure class Ductile Iron Pipe can be direct tapped within close proximity, unlike old cast iron pipe which required an 18" separation for main stops.

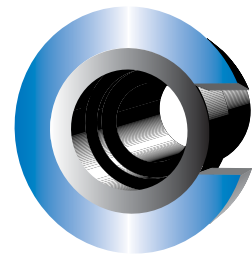
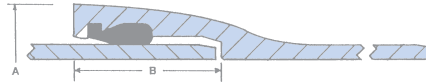
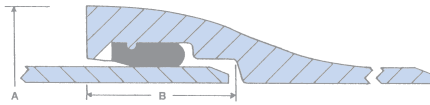
PUSH-ON JOINTS

All Canada Pipe Ductile Iron Pipe for underground installation is supplied with **TYTON JOINT®** or **FASTITE®** joint bells. These joints were originally developed in 1956 and are designed to be bottle-tight and easily assembled. They have been tested to 1,000 psi internal pressure, 430 psi external pressure and to 14 psi negative air pressure with no leakage or infiltration. The standard gasket supplied is the Styrene Butadiene (SBR) gasket. Other gasket materials such as EPDM, Nitrile, Neoprene and **VITON®** are also available. Special locking style gaskets can be supplied to provide joint restraint on standard **TYTON JOINT®** pipe.



The Ductile Iron Pipe Research Association (DIPRA) and the pipe manufacturers have conducted extensive testing of direct tapping Ductile Iron Pipe. Based on these tests, the maximum recommended direct tap sizes to ensure a watertight tap are shown below. The old rule of thumb of 3 or 4 threads was based on the much weaker pit-cast pipe. Because of the high strength of ductile iron, the number of threads engaged is less critical. NOTE: DIPRA also recommends the use of two layers of pipe thread sealant tape on all direct taps made on Ductile Iron Pipe to minimize the torque required to effect a watertight tap.





TYTON JOINT® Pipe
4"-24" 100mm-600mm

FASTITE® Joint Pipe
30"-36" 750mm-900mm



DUCTILE IRON PIPE JOINTS & DIMENSIONS

SIZE		OUTSIDE DIAMETER		INSIDE DIAMETER		BELL DIAMETER 'A'		BELL DEPTH 'B'		NOMINAL LAYING LENGTH	
in	mm	in	mm	in	mm	in	mm	in	mm	ft	m
4	100	4.80	121.9	4.18	106.2	6.86	174.2	3.15	80.0	20	6.1
6	150	6.90	175.3	6.28	159.5	8.63	219.2	3.38	85.9	18	5.5
8	200	9.05	229.3	8.43	214.1	10.94	277.4	3.69	93.7	18	5.5
10	250	11.10	281.9	10.46	265.7	13.32	338.3	3.75	95.3	18	5.5
12	300	13.20	335.3	12.52	318.0	15.06	382.5	3.75	95.3	18	5.5
14	350	15.30	388.6	14.55	369.6	17.80	452.1	5.00	127.0	18	5.5
16	400	17.40	442.0	16.61	421.9	19.98	507.5	5.00	127.0	18	5.5
18	450	19.50	495.3	18.69	474.7	22.00	558.8	5.00	127.0	18	5.5
20	500	21.60	548.6	20.75	527.1	24.12	612.6	5.00	127.0	18	5.5
24	600	25.80	655.3	24.95	633.7	28.43	722.1	5.00	127.0	18	5.5
30	750	32.00	812.8	31.07	789.2	34.95	887.7	6.50	165.1	18	5.5
36	900	38.30	972.8	37.29	947.2	41.37	1050.8	6.50	165.1	18	5.5

- Inside diameters are based on minimum Pressure Classes available and include standard cement lining.
- Dimensions are subject to manufacturing tolerances.

MAXIMUM RECOMMENDED DIRECT TAP SIZE

SIZE		PRESSURE CLASS				
in	mm	150	200	250	300	350
4	100					3/4"
6	150					1"
8	200					1"
10	250					1"
12	300					1 1/4"
14	350			1 1/4"	1 1/2"	1 1/2"
16	400			1 1/2"	2"	2"
18	450			2"	2"	2"
20	500			2"	2"	2"
24	600		2"	2"	2"	2"