

**PIPELINE MECHANICAL JOINT RESTRAINT DATA**

150psi WORKING PRESSURE

200psi WORKING PRESSURE

TYPE OF PIPE	PIPE SIZE	150psi WORKING PRESSURE								200psi WORKING PRESSURE								PIPE SIZE	TYPE OF PIPE
		TEE	90° BEND	45° BEND, HORZ	22-1/2° BEND, HORZ	11-1/4° BEND, HORZ	45° BEND, VERT	22-1/2° BEND, VERT	11-1/4° BEND, VERT	TEE	90° BEND	45° BEND, HORZ	22-1/2° BEND, HORZ	11-1/4° BEND, HORZ	45° BEND, VERT	22-1/2° BEND, VERT	11-1/4° BEND, VERT		
DUCTILE IRON	4"	22	39	16	8	4	25	12	6	33	47	20	10	5	29	14	7	4"	DUCTILE IRON
	6"	45	54	23	11	6	34	17	9	61	65	27	13	7	41	20	10	6"	
	8"	70	71	30	14	7	45	22	11	91	85	35	17	9	54	26	13	8"	
	10"	90	84	35	17	9	54	26	13	116	101	42	20	10	64	31	16	10"	
	12"	112	98	41	20	10	63	30	15	143	118	49	24	12	75	36	18	12"	
	14"	133	111	46	23	11	71	35	17	167	134	56	27	14	86	41	21	14"	
	16"	154	125	52	25	13	80	39	19	192	150	62	30	15	96	46	23	16"	

**MINIMUM DISTANCE, ("L", FEET) JOINTS REQUIRED TO BE RESTRAINED BEYOND FITTING**

MEGALUG PIPE JOINT RESTRAINT OR APPROVED EQUAL

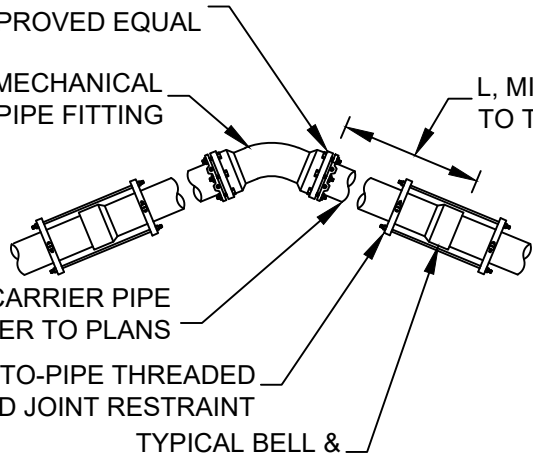
DUCTILE IRON MECHANICAL JOINT PIPE FITTING

L, MIN - REFER TO TABLE

DUCTILE IRON CARRIER PIPE AS REQ'D - REFER TO PLANS

PIPE-TO-PIPE THREADED ROD JOINT RESTRAINT

TYPICAL BELL & SPIGOT PIPE JOINT



1. CONTRACTOR MAY ELECT TO USE MECHANICALLY RESTRAINED JOINTS WITHOUT CONCRETE THRUST BLOCKS IN LOCATIONS WITH 150psi AND 200psi WORKING PRESSURES.
2. PIPE SHALL BE RESTRAINED TO FITTING USING MEGALUG OR APPROVED EQUAL JOINT RESTRAINTS.
3. ALL PIPE JOINTS FOR A DISTANCE, "L" FEET BEYOND FITTING SHALL BE RESTRAINED. REFER TO TABLE FOR APPROPRIATE FITTING TYPE AND LENGTH.
4. CONCRETE THRUST BLOCKS REQUIRED FOR ALL LOCATIONS WITH WORKING PRESSURES OF 250psi AND HIGHER.



# MECHANICAL JOINT RESTRAINT TABLE FOR DUCTILE IRON PIPES

EFFECTIVE  
07/2024

DETAIL NO.  
105