

**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 |           |              |
| PVC PIPE     | 4"        | 32                      | 51       | 21             | 11                 | 5                  | 38             | 19                 | 10                 | 50                      | 61       | 26             | 13                 | 6                  | 46             | 22                 | 11                 | 4"        | PVC PIPE     |
|              | 6"        | 67                      | 71       | 30             | 15                 | 7                  | 54             | 26                 | 13                 | 92                      | 85       | 36             | 17                 | 9                  | 64             | 31                 | 16                 | 6"        |              |
|              | 8"        | 105                     | 93       | 39             | 19                 | 10                 | 70             | 34                 | 17                 | 137                     | 111      | 46             | 23                 | 11                 | 84             | 41                 | 20                 | 8"        |              |
|              | 10"       | 136                     | 110      | 46             | 22                 | 11                 | 84             | 41                 | 20                 | 175                     | 132      | 55             | 27                 | 13                 | 101            | 49                 | 24                 | 10"       |              |
|              | 12"       | 170                     | 129      | 54             | 26                 | 13                 | 99             | 48                 | 24                 | 215                     | 155      | 64             | 31                 | 16                 | 119            | 57                 | 29                 | 12"       |              |
|              | 14"       | 200                     | 146      | 61             | 30                 | 15                 | 113            | 54                 | 27                 | 252                     | 176      | 73             | 35                 | 18                 | 135            | 65                 | 33                 | 14"       |              |
|              | 16"       | 232                     | 164      | 68             | 33                 | 17                 | 127            | 61                 | 31                 | 290                     | 197      | 82             | 40                 | 20                 | 152            | 73                 | 37                 | 16"       |              |

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

MEGALUG PIPE JOINT RESTRAINT OR APPROVED EQUAL

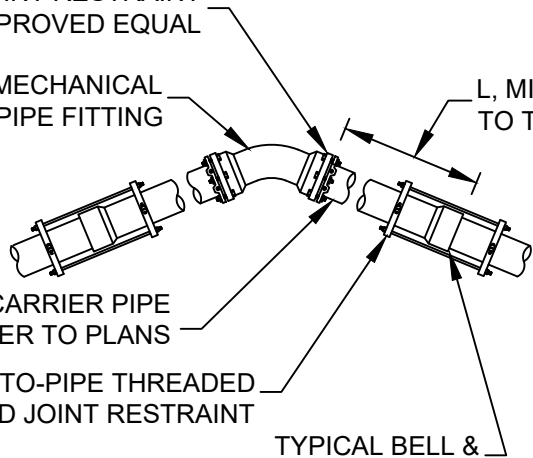
DUCTILE IRON MECHANICAL JOINT PIPE FITTING

L, MIN - REFER TO TABLE

PVC 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 PVC PIPES

EFFECTIVE  
07/2024

DETAIL NO.  
104