

## DI GROOVED FITTINGS-CROSS

Type: 180

Doc No: DS-400-180-01-E

### 1.0 PRODUCT OVERVIEW

The cross product is used for grooved pipe connection, mainly in the grooved pipe end where the main pipe needs branch pipe. The diameter of the main pipe and branch pipe is the same.



#### Dimensions:

1 1/4"(DN32)– 24"(DN600)

#### Design Standard:

ISO6182, AWWA C606, GB 5135.11

#### Connection Standard:

ASME B36.10, ASTM A53-A53M, ISO 4200

#### Working Pressure:

175PSI-500PSI

#### Application:

The cross product is suitable for medium and low pressure pipeline systems with nominal pressure 175-500 PSI, nominal size DN32-DN600, temperature range of -20 °C-+180°C, which are widely applied in water supply and drainage, fire-fighting, air conditioning, etc.

#### Pipe Material:

Welded and seamless rolled steel pipes according to ASME B36.10, ASTM A53-A53M, ISO 4200, GB/T 21835

#### Sign Off:

Owner: \_\_\_\_\_ Contractor: \_\_\_\_\_

Engineer: \_\_\_\_\_

Location: \_\_\_\_\_ Date: \_\_\_\_\_

Approved & Date: \_\_\_\_\_

**Surface Treatment:**

- Electrophoretic painting
- Epoxy power painting
- Hot-dip galvanizing
- Black
- Others would be available upon clients' detailed request

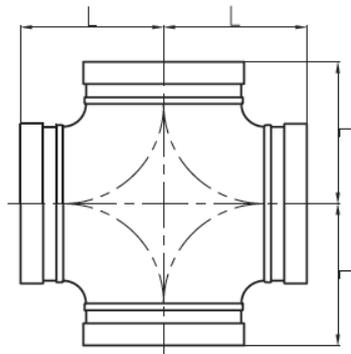
**2.0 APPROVALS**



**3.0 SPECIFICATIONS-MATERIAL**

Ductile iron according to ASTM A536, grade 65-45-12. The nodularity is more than 90%, ensuring excellent physical and mechanical properties.

**4.0 DIMENSIONS AND PERFORMANCE**



**Sign Off:**

Owner: \_\_\_\_\_ Contractor: \_\_\_\_\_ Engineer: \_\_\_\_\_  
Location: \_\_\_\_\_ Date: \_\_\_\_\_ Approved & Date: \_\_\_\_\_

Nominal Size	Pipe O.D.	Working Pressure	Dimensions L	Nominal Size	Pipe O.D.	Working Pressure	Dimensions L
mm/in	mm/in	PSI/MPa	mm/in	mm/in	mm/in	PSI/MPa	mm/in
32 1¼	42.4 1.66	500 3.45	70 2.75	150 6	165.1 6.5	500 3.45	140 5.5
40 1½	48.3 1.9	500 3.45	70 2.75	150 6	168.3 6.625	500 3.45	140 5.5
50 2	60.3 2.375	500 3.45	70 2.75	200 8	219.1 8.625	500 3.45	175 6.89
65 2½	73 2.875	500 3.45	76 3	250 10	273 10.75	500 3.45	229 9
65 2½	76.1 3	500 3.45	76 3	300 12	323.9 12.75	500 3.45	254 10
80 3	88.9 3.5	500 3.45	85.5 3.37	350 14	355.6 14	300 2.07	279 10.98
100 4	108 4.25	500 3.45	101 3.98	350 14	377 14.84	300 2.07	279 10.98
100 4	114.3 4.5	500 3.45	101 3.98	400 16	406.4 16	300 2.07	305 12.01
125 5	139.7 5.5	500 3.45	124 4.88	450 18	457.2 18	300 2.07	343 13.5
125 5	141.3 5.563	500 3.45	124 4.88	500 20	508 20	300 2.07	381 15
150 6	159 6.25	500 3.45	140 5.5	600 24	609.6 24	300 2.07	432 17.01

## 5.0 REFERENCE MATERIALS

Approved certification for Grooved Fittings and Couplings

I-JM-Grooved fitting: Installation Instructions for grooved fittings and couplings

**Sign Off:**

Owner: \_\_\_\_\_ Contractor: \_\_\_\_\_

Engineer: \_\_\_\_\_

Location: \_\_\_\_\_ Date: \_\_\_\_\_

Approved & Date: \_\_\_\_\_