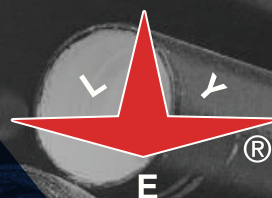


FLEXIBLE



LYE

# MECHANICAL JOINTS FOR DUCTILE IRON PIPE

## SOLUTION OF HIGH INSTALLATION FLEXIBILITY

Mechanical  
Coupling



Mechanical  
Flange Adaptor

Flange  
Dismantling Joint

### Mechanical Coupling

### Mechanical Flange Adaptor

### Flange Dismantling Joint

#### In Brief

- ▶ For Connecting D.I., MSCL & Other Rigid Pipes Material with Similar OD
- ▶ Ideal for Quick & Easy Pipeline Repair, Maintenances & System Servicing
- ▶ Working Pressure : PN16
- ▶ Coating : Fusion Bonded Epoxy
- ▶ Sealing : EPDM
- ▶ Angular Deflection :  $\pm 3^\circ$
- ▶ Longitudinal Adjustment : Up to 50mm/2"
- ▶ For Longitudinal Adjustment With Telescoping Action of Flanged Spigot

#### Standards

- ▶ Design : SPESIFIKASI JKR 20200-0048-99
- ▶ Test : EN 12266-1
- ▶ Flange : EN 1092-2
- ▶ For Ductile Iron Pipe : BS EN 545 / BS EN 598 / ISO 2531 / MS 1919 / DIN 28601
- ▶ For Mild Steel Pipe : BS 534 / SPAN TS 21827 / AS 1579

#### Features

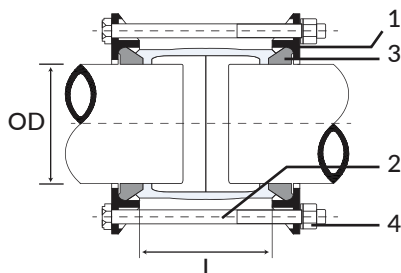
- ▶ Range of Sizes
  - D.I. : DN80 to DN800
  - MSCL : DN80 to DN1200
- ▶ Wedge Gasket Type Allowing OD Tolerance ( +1-3 )mm for Water Sealing
- ▶ For Limited Ground Movement, Expansion, Contraction and Minor Angular Misalignment of Pipeline
- ▶ Long Collar with 225mm Body Sleeve for Better Prevention of Pipe-Pull Out
- ▶ D.I. & MSCL : DN100 to DN150
- ▶ Allowing Length Locking with Tie Bars Supplied

# MECHANICAL JOINTS FOR DUCTILE IRON PIPE

## SOLUTION OF HIGH INSTALLATION FLEXIBILITY

### Technical Table

## Mechanical Coupling



### Assembly Chart

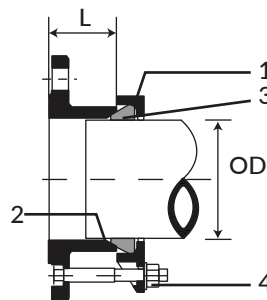
| No. | Component     | Material              | Standard Ref. |
|-----|---------------|-----------------------|---------------|
| 1   | Gland Flange  | Ductile Iron          | BS EN 1563    |
| 2   | Sleeve/Collar | Ductile Iron          | BS EN 1563    |
| 3   | Gasket        | EPDM                  | BS EN 681     |
| 4   | Bolt & Nut    | Hot Dipped Galvanized | BS EN 4190    |

### Specifications & Parameters Chart

| DN (mm) | OD (D.I.) (mm) | OD (MSCL) (mm) | L (mm)   | Bolts  |
|---------|----------------|----------------|----------|--------|
| 80      | 98             | 88.9           | 100/225  | M12x4  |
| 100     | 118            | 114.3          | 100/225  | M12x4  |
| 150     | 170            | 168.3          | 100/225  | M12x4  |
| 200     | 222            | 219.1          | 100/225  | M12x4  |
| 250     | 274            | 273            | 100/225  | M12x6  |
| 300     | 326            | 323.9          | 100/225  | M12x6  |
| 350     | 378            | 355.6          | 150/225* | M16x8  |
| 400     | 429            | 406.4          | 150/225* | M16x8  |
| 450     | 480            | 457            | 150      | M16x10 |
| 500     | 532            | 508            | 150      | M16x10 |
| 600     | 635            | 610            | 150      | M16x10 |
| 700     | 738            | 711            | 150      | M16x12 |
| 800     | 842            | 813            | 150      | M16x12 |
| 900     | -              | 914            | 150      | M16x14 |
| 1000    | -              | 1016           | 150      | M16x14 |
| 1200    | -              | 1219           | 200      | M16x16 |

\*225 mm body length is only available for the mechanical joint used to connect D.I. pipes.

## Mechanical Flange Adaptor



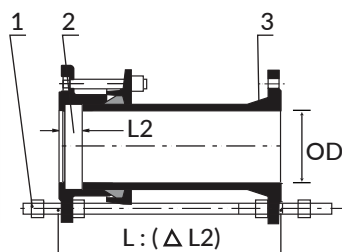
### Assembly Chart

| No. | Component    | Material              | Standard Ref. |
|-----|--------------|-----------------------|---------------|
| 1   | Gland Flange | Ductile Iron          | BS EN 1563    |
| 2   | Body         | Ductile Iron          | BS EN 1563    |
| 3   | Gasket       | EPDM                  | BS EN 681     |
| 4   | Bolt & Nut   | Hot Dipped Galvanized | BS EN 4190    |

### Specifications & Parameters Chart

| DN (mm) | OD (D.I.) (mm) | OD (MSCL) (mm) | L (mm)   | Bolts  | Flange Standard           |
|---------|----------------|----------------|----------|--------|---------------------------|
| 80      | 98             | 88.9           | 70/225   | M12x4  | PN10+PN16+BS10/E+ANSI/150 |
| 100     | 118            | 114.3          | 70/225   | M12x4  | PN10+PN16+BS10/E+ANSI/150 |
| 150     | 170            | 168.3          | 70/225   | M12x4  | PN10+PN16+BS10/E+ANSI/150 |
| 200     | 222            | 219.1          | 70/225   | M12x4  | PN10+PN16+BS10/E+ANSI/150 |
| 250     | 274            | 273            | 90/225   | M16x6  | PN10+PN16+BS10/E+ANSI/150 |
| 300     | 326            | 323.9          | 90/225   | M16x6  | PN10+PN16+BS10/E+ANSI/150 |
| 350     | 378            | 355.6          | 100/225* | M16x8  | PN10/16                   |
| 400     | 429            | 406.4          | 100/225* | M16x8  | PN10/16                   |
| 450     | 480            | 457            | 100      | M16x10 | PN10/16                   |
| 500     | 532            | 508            | 100      | M16x10 | PN10/16                   |
| 600     | 635            | 610            | 100      | M16x10 | PN10/16                   |
| 700     | 738            | 711            | 100      | M16x12 | PN10/16                   |
| 800     | 842            | 813            | 100      | M16x12 | PN10/16                   |
| 900     | -              | 914            | 115      | M16x14 | PN10/16                   |
| 1000    | -              | 1016           | 115      | M16x14 | PN10/16                   |
| 1200    | -              | 1219           | 125      | M16x16 | PN10/16                   |

## Flange Dismantling Joint



### Assembly Chart

| No. | Component            | Material         | Standard Ref. |
|-----|----------------------|------------------|---------------|
| 1   | Tie Rod Bar          | Galvanized Steel | BS EN 4190    |
| 2   | Mech. Flange Adaptor | Ductile Iron     | BS EN 1563    |
| 3   | Flanged Spigot       | Ductile Iron     | BS EN 1563    |

### Specifications & Parameters Chart

| DN (mm) | OD (mm) | L (mm) | L2 (mm) |
|---------|---------|--------|---------|
| 100     | 118     | 300    | 50      |
| 150     | 170     | 450    | 50      |

Note: Technical data provided in this brochure is indicative only and may be subject to change without prior notice.

**For Fast & Simple Axial Movement  
of Water Metering System**



**LYE MANUFACTURING SDN.BHD. (197701001852 (32836-H))**

Manufacturer of Valves, Hydrants, Joints, Fittings & Manhole Covers

Lot 1844, Jalan KPB 8, Kampung Baru Balakong, 43300 Kajang, Selangor Darul Ehsan, Malaysia.

FACTORY Tel: 603 - 8961 1623 Fax: 603 - 8961 1092 EMAIL: enquiry@lye.com.my

SALES Tel: 603 - 6140 3131(Hunting Line) Fax: 603 - 6140 5858

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