



**HRDIP**  
with Kubota Tech

McWaneDuctile.com

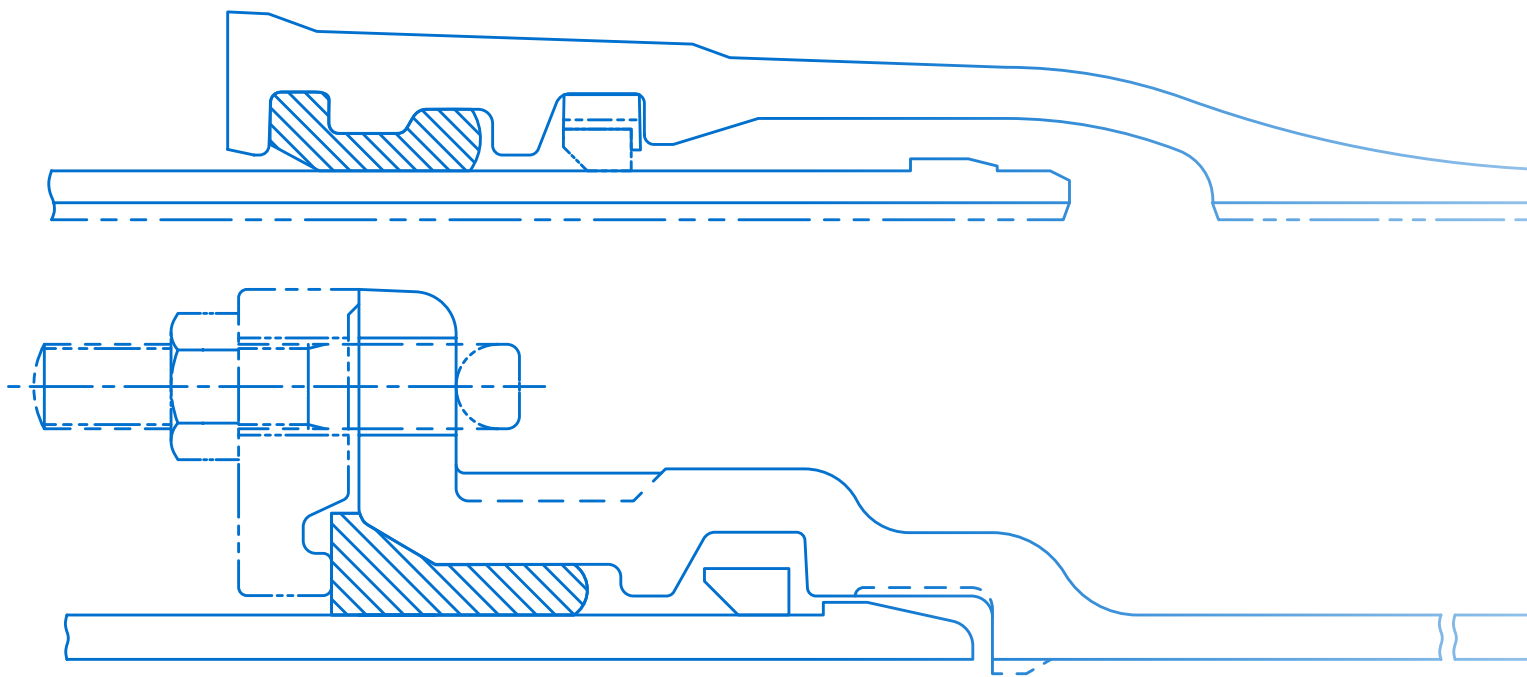
# HAZARD RESILIENT DUCTILE IRON PIPE (HRDIP)

**DIMENSIONS OF 6", 8"  
AND 12" G X PIPES, FITTINGS  
AND ACCESSORIES**

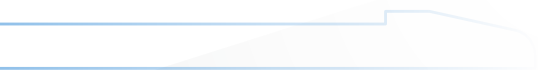


McWane Ductile is a division of McWane, LLC

**For Generations**



|                                                   |           |
|---------------------------------------------------|-----------|
| <b>Specifications .....</b>                       | <b>1</b>  |
| <b>Centrifugally Cast Pipes .....</b>             | <b>6</b>  |
| <b>Accessories for Pipes.....</b>                 | <b>7</b>  |
| <b>Kubota Brand Fittings .....</b>                | <b>10</b> |
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| <b>Memo .....</b>                                 | <b>18</b> |



# SPECIFICATIONS

## APPLICABLE STANDARDS

Pipes and Kubota Brand Fittings conform to the requirements of the following specifications.

|                                                                                                                              |                 |
|------------------------------------------------------------------------------------------------------------------------------|-----------------|
| DUCTILE-IRON PIPE, CENTRIFUGALLY CAST                                                                                        | ANSI/AWWA C151  |
| DUCTILE-IRON COMPACT KUBOTA BRAND FITTINGS, 3 IN. THROUGH 16 IN., FOR WATER AND OTHER LIQUIDS                                | ANSI/AWWA C153  |
| PROTECTIVE FUSION-BONDED COATINGS FOR THE INTERIOR AND EXTERIOR SURFACES OF DUCTILE IRON AND GRAY IRON KUBOTA BRAND FITTINGS | AWWA C116       |
| EPOXY-POWDER COATING FOR INTERIOR OF DUCTILE IRON PIPES AND KUBOTA BRAND FITTINGS FOR WATER SUPPLY                           | JWWA G112       |
| DUCTILE IRON PIPES FOR WATER SUPPLY                                                                                          | JWWA G113       |
| DUCTILE IRON KUBOTA BRAND FITTINGS FOR WATER SUPPLY                                                                          | JWWA G114       |
| GX TYPE DUCTILE IRON PIPES FOR WATER SUPPLY                                                                                  | JWWA G120       |
| GX TYPE DUCTILE IRON KUBOTA BRAND FITTINGS FOR WATER SUPPLY                                                                  | JWWA G121       |
| SYNTHETIC RESIN PAINTS FOR DUCTILE IRON PIPES FOR WATER SUPPLY                                                               | JWWA K139       |
| RUBBER MATERIALS FOR WATER SUPPLY                                                                                            | JWWA K156       |
| SPHEROIDAL GRAPHITE IRON CASTINGS                                                                                            | JIS G 5502      |
| PORTLAND CEMENT                                                                                                              | JIS R 5210      |
| GRAY IRON PIPE FLANGES AND FLANGED KUBOTA BRAND FITTINGS : CLASSES 125 AND 250                                               | ASME/ANSI B16.1 |
| PIPE FLANGES AND FLANGED KUBOTA BRAND FITTINGS                                                                               | ASME/ANSI B16.5 |
| EARTHQUAKE- AND SUBSIDENCE- RESISTANT DESIGN OF DUCTILE IRON PIPELINES                                                       | ISO 16134       |

## NOMINAL THICKNESS

| SIZE<br>(INCHES) | PIPES    |          |           | KUBOTA BRAND FITTINGS |
|------------------|----------|----------|-----------|-----------------------|
|                  | CLASS 54 | CLASS 52 | CLASS 350 |                       |
| 6                | 0.37     | 0.31     | 0.25      | 0.36                  |
| 8                | 0.39     | 0.33     | 0.25      | 0.38                  |
| 12               | 0.43     | 0.37     | 0.28      | 0.42                  |

**Note:** Upon request, other class of pipes may be applied.

## MECHANICAL PROPERTIES

| GRADE OF MATERIAL | MINIMUM TENSILE STRENGTH<br>PSI (N/MM <sup>2</sup> ) | MINIMUM ELONGATION % |
|-------------------|------------------------------------------------------|----------------------|
| FCD (420-10)      | 60,000 (420)                                         | 10                   |

**Note:** In case of dispute, Brinell hardness will be measured. It shall be maximum 230HBW.

# SPECIFICATIONS

## STANDARD COATING AND LINING

|                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PIPES                                      | KUBOTA BRAND FITTINGS |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------|
| Outside                                                                                                                                                                                                                                                                                                                                                                                                                                              | C-protect (Zn-alloy coating) <sup>1)</sup> |                       |
| Inside                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fusion-bonded Epoxy                        |                       |
| <b>Note:</b> 1) Pipes and Kubota Brand Fittings will be coated externally with metallic zinc-alloy followed by synthetic resin coating in accordance with JWWA G 120 and G 121 respectively. The minimum application mass of the zinc alloy coating will be 0.95 oz./ft2 [290 g/m2]. The synthetic resin paint used for finishing layer will conform to JWWA K 139 and the minimum mean dry film thickness of the coating will be 3.1 mil [0.08 mm]. |                                            |                       |

## MATERIAL OF ACCESSORIES

| ACCESSORIES         | MATERIAL                                                                          |
|---------------------|-----------------------------------------------------------------------------------|
| Rubber gasket       | Synthetic rubber (SBR) conforming to JWWA K 156                                   |
| Lock ring           | Ductile iron coated with fusion-bonded epoxy or synthetic resin paint             |
| Lock ring holder    | Polypropylene or polyethylene                                                     |
| Gland               | Ductile iron coated with the same manner as the external of Kubota Brand Fittings |
| T-head bolt and nut | Stainless steel                                                                   |
| Lining              | Ductile iron coated with fusion-bonded epoxy                                      |
| Liner board         | Polyamide                                                                         |
| Spigot ring         | Ductile iron coated with fusion-bonded epoxy                                      |

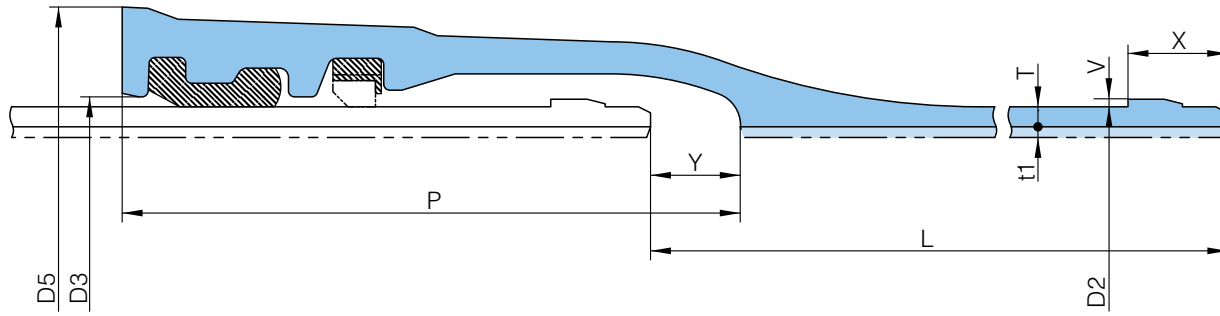
## PERFORMANCE OF THE JOINT

| PIPE SIZE IN.<br>[MM]                                                                                                                                                                                                                                                                                                                                                                                                                 | PULL-OUT<br>RESISTANCE <sup>1)</sup><br>LBF [KN] | EXPANSION AND<br>CONTRACTION <sup>1),2</sup><br>INCHES [MM] | ALLOWABLE<br>DEFLECTION<br>ANGLE <sup>2),3)</sup> | MAXIMUM<br>DEFLECTION<br>ANGLE <sup>2),3)</sup> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------|
| 6<br>[150]                                                                                                                                                                                                                                                                                                                                                                                                                            | 60,000 (420)                                     | 31.97 [350]                                                 | 4° 00'                                            | 8° 00'                                          |
| 8<br>[200]                                                                                                                                                                                                                                                                                                                                                                                                                            | 136,000<br>[600]                                 | 31.97 [350]                                                 |                                                   |                                                 |
| 12<br>[300]                                                                                                                                                                                                                                                                                                                                                                                                                           | 204,000<br>[900]                                 | 32.36 [360]                                                 |                                                   |                                                 |
| <b>Note:</b> 1) Pull-out resistance conforms to Class A (i.e. 3 D kN [D; pipe size in mm] = 17,000 D lbf [D; pipe size in inches]).<br>and expansion and contraction to Class S-1 (i.e. 31% of the nominal pipe length) of ISO 16134.<br>2) Expansion, contraction and deflection angles are for pipes only<br>3) Allowable angle is applied for an installation phase and maximum angle is applied for earthquake/ground subsidence. |                                                  |                                                             |                                                   |                                                 |

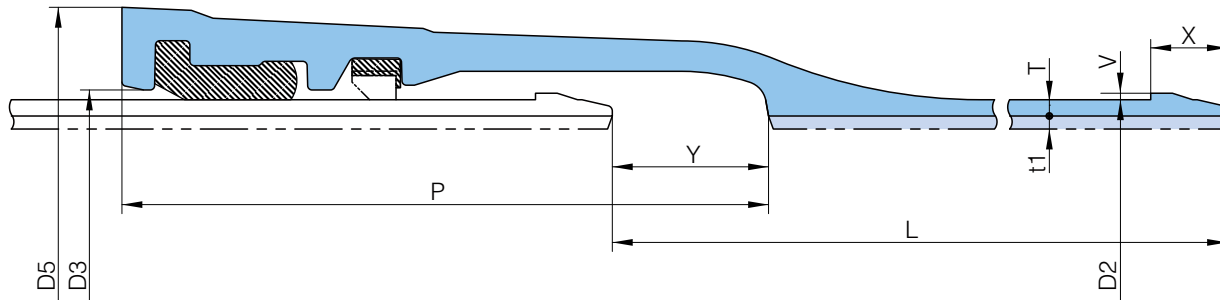
# CENTRIFUGALLY CAST PIPES

## GX-PIPE

Size 6" and 8"



Size 12"



| SIZE<br>(INCHES) | WALL THICKNESS<br>(INCHES) |          |           | OUTSIDE<br>DIAMETER<br>(INCHES) | DIMENSIONS<br>(INCHES) |       |       |      |      |      |
|------------------|----------------------------|----------|-----------|---------------------------------|------------------------|-------|-------|------|------|------|
|                  | T                          |          |           |                                 | D2                     | D3    | D5    | P    | V    | X    |
|                  | CLASS 54                   | CLASS 52 | CLASS 350 |                                 |                        |       |       |      |      |      |
| 6                | 0.37                       | 0.31     | 0.25      | 6.90                            | 7.25                   | 9.78  | 9.69  | 0.12 | 1.30 | 2.36 |
| 8                | 0.39                       | 0.33     | 0.25      | 9.05                            | 9.41                   | 11.96 | 10.04 | 0.12 | 1.30 | 2.36 |
| 12               | 0.43                       | 0.37     | 0.28      | 13.20                           | 13.56                  | 16.56 | 11.73 | 0.12 | 1.39 | 2.83 |

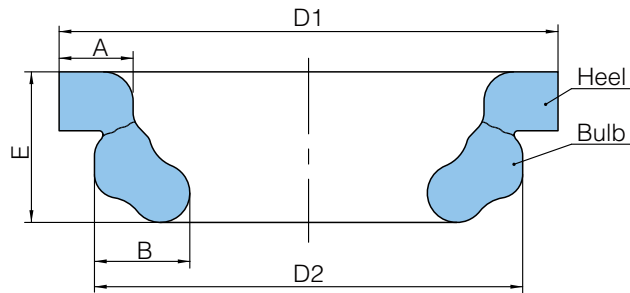
| SIZE<br>(INCHES) | NOMINAL<br>LAYING LENGTH<br>(FEET) | MASS (LB)   |          |           | LINING <sup>1)</sup>  |           |          |           |
|------------------|------------------------------------|-------------|----------|-----------|-----------------------|-----------|----------|-----------|
|                  |                                    | PER 1 PIECE |          |           | THICKNESS<br>(INCHES) | MASS (LB) |          |           |
|                  |                                    | CLASS 54    | CLASS 52 | CLASS 350 |                       | CLASS 54  | CLASS 52 | CLASS 350 |
| 6                | 16.40                              | 423         | 366      | 309       | 0.16                  | 50.3      | 51.1     | 52.0      |
| 8                | 16.40                              | 595         | 514      | 408       | 0.16                  | 67.9      | 68.8     | 69.9      |
| 12               | 19.69                              | 1164        | 1016     | 802       | 0.24                  | 182.5     | 183.6    | 186.3     |

**Note:** In case of epoxy coating, thickness of coating will be min. 300Qm.

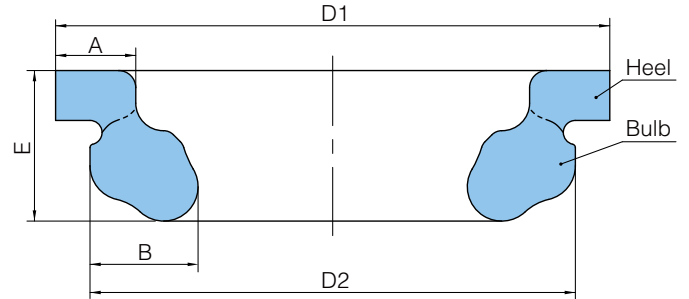
# ACCESSORIES FOR PIPES

## RUBBER GASKETS FOR PIPE

Size 6" and 8"



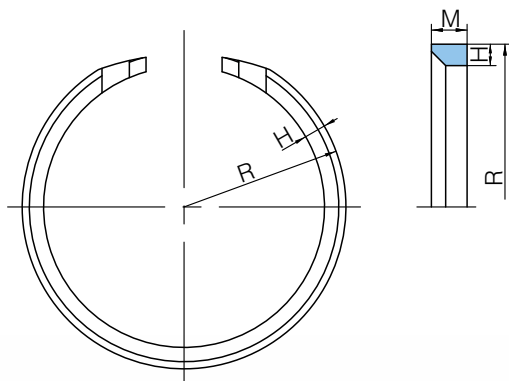
Size 12"



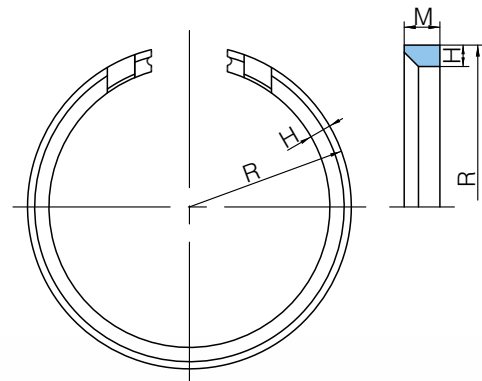
| SIZE<br>(INCHES) | DIMENSIONS (INCHES) |       |      |      |      |
|------------------|---------------------|-------|------|------|------|
|                  | D 1                 | D 2   | A    | B    | E    |
| 6                | 8.67                | 8.03  | 0.63 | 0.88 | 1.40 |
| 8                | 11.07               | 10.31 | 0.79 | 1.02 | 1.61 |
| 12               | 15.72               | 14.94 | 0.92 | 1.24 | 1.72 |

## LOCK RING

Size 6" and 8"



Size 12"

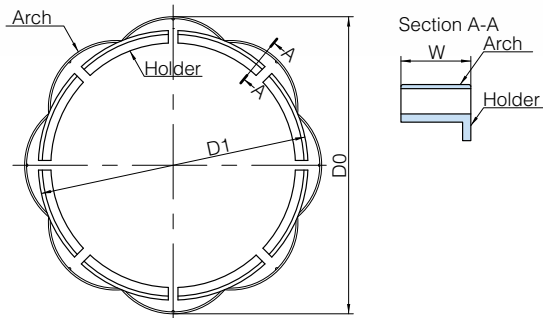


| SIZE<br>(INCHES) | DIMENSIONS (INCHES) |      |      | MASS (LB) |
|------------------|---------------------|------|------|-----------|
|                  | H                   | M    | R    |           |
| 6                | 0.35                | 0.59 | 3.81 | 0.9       |
| 8                | 0.35                | 0.59 | 4.88 | 1.2       |
| 12               | 0.43                | 0.79 | 7.00 | 3.0       |

**Note:** Same Lock ring is used for Kubota Brand Fittings.

# ACCESSORIES FOR PIPES

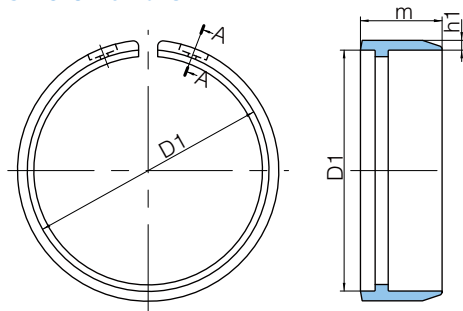
## LOCK RING HOLDER



| SIZE<br>(INCHES) | DIMENSIONS (INCHES) |       |      | NUMBER OF<br>HOLDER |
|------------------|---------------------|-------|------|---------------------|
|                  | D O                 | D 1   | W    |                     |
| 6                | 8.33                | 7.77  | 0.67 | 10                  |
| 8                | 10.49               | 9.92  | 0.67 | 12                  |
| 12               | 14.72               | 14.15 | 0.87 | 12                  |

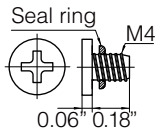
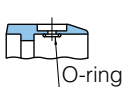
## SPIGOT RING FOR CUT PIPE

Size 6" and 8"

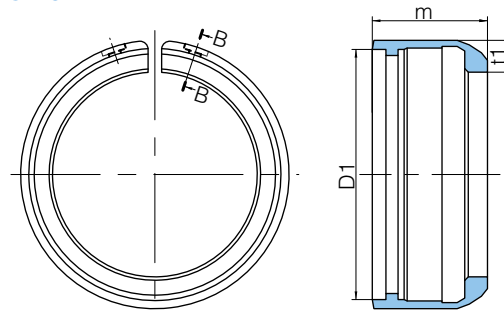


Section A-A

Tapping screw

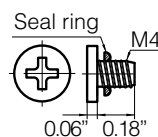


Size 12"



Section B-B

Tapping screw



| SIZE<br>(INCHES) | DIMENSIONS (INCHES) |      |      | MASS (LB) |
|------------------|---------------------|------|------|-----------|
|                  | D 1                 | H 1  | M    |           |
| 6                | 6.90                | 0.12 | 1.00 | 0.7       |
| 8                | 9.05                | 0.12 | 1.00 | 0.9       |

| SIZE<br>(INCHES) | DIMENSIONS (INCHES) |      |      | MASS (LB) |
|------------------|---------------------|------|------|-----------|
|                  | D 1                 | H 1  | M    |           |
| 12               | 13.2                | 1.50 | 0.41 | 2.4       |

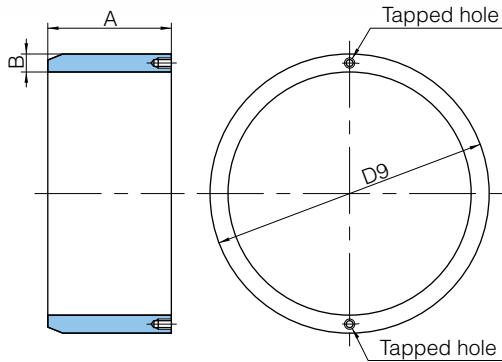
**Note:** 1. Spigot ring is used to form the spigot projection on the spigot end of pipe cut on site.  
2. Tapping screw is indicated metric threads..



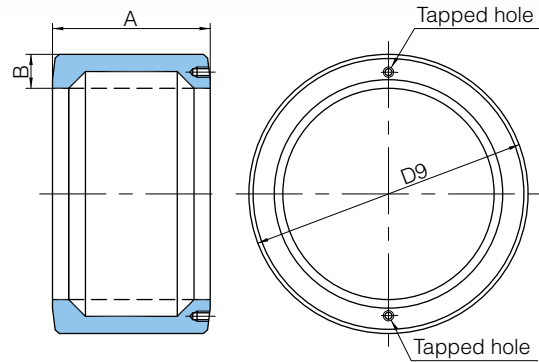
# ACCESSORIES FOR PIPES

## LINER

### Size 6" and 8"



### Size 12"



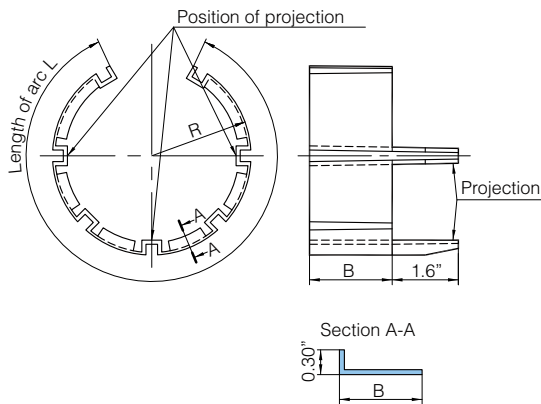
| SIZE<br>(INCHES) | DIMENSIONS (INCHES) |      |      | MASS (LB) |
|------------------|---------------------|------|------|-----------|
|                  | D 9                 | A    | B    |           |
| 6                | 6.90                | 3.90 | 0.26 | 5.3       |
| 8                | 9.05                | 3.90 | 0.26 | 7.1       |
| 12               | 13.35               | 4.96 | 0.79 | 22.7      |

#### Note:

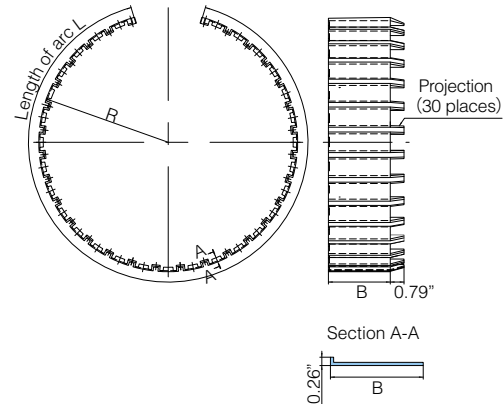
1. Liner is placed into the socket of pipes to convert the joint into restrained type when pipes are used for the thrust protection of Kubota Brand Fittings.
2. Tapped holes might be set on face (within two holes). In this case, tapped holes will be filled with epoxy resin.
3. Dotted line of inside of size 12" is also allowed.

## LINER BOARD

### Size 6" and 8"



### Size 12"

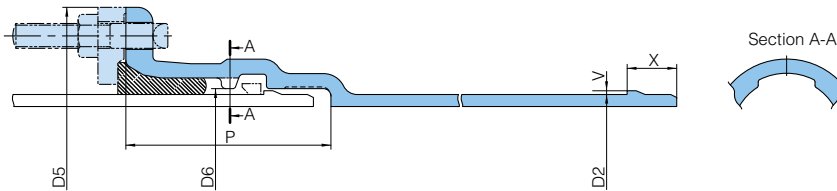


| SIZE<br>(INCHES) | DIMENSIONS (INCHES) |      |       |
|------------------|---------------------|------|-------|
|                  | R                   | B    | L     |
| 6                | 4.04                | 1.97 | 22.40 |
| 8                | 5.12                | 1.97 | 28.94 |
| 12               | 7.60                | 3.54 | 42.76 |

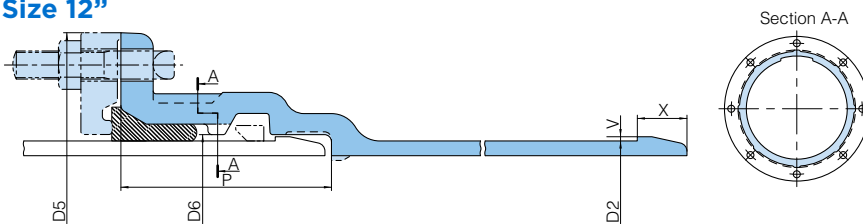
# Kubota BRAND FITTINGS

## GX-FITTING

### Size 6" and 8"

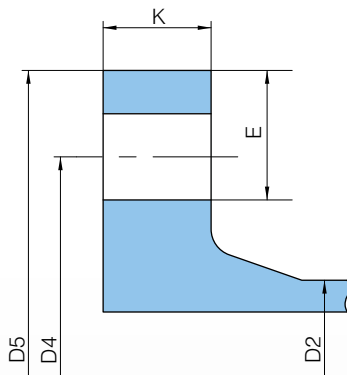


### Size 12"



| SIZE<br>(INCHES) | OUTSIDE<br>DIAMETER<br>(INCHES) | DIMENSIONS (INCHES) |       |      |      |      | NUMBER OF<br>BOLT HOLES |
|------------------|---------------------------------|---------------------|-------|------|------|------|-------------------------|
|                  | D 2                             | D 5                 | D 6   | P    | V    | X    |                         |
| 6                | 6.90                            | 12.26               | 7.25  | 5.59 | 0.12 | 1.30 | 6                       |
| 8                | 9.05                            | 14.33               | 9.41  | 5.67 | 0.12 | 1.30 | 6                       |
| 12               | 13.20                           | 19.27               | 13.56 | 5.91 | 0.12 | 1.39 | 8                       |

## FLANGE



### ASME B 16.1 Class125

| SIZE<br>(INCHES) | OUTSIDE<br>DIAMETER<br>(INCHES) | DIMENSIONS (INCHES) |       |      |      | NUMBER<br>OF BOLT<br>HOLES | MASS<br>(LB) |
|------------------|---------------------------------|---------------------|-------|------|------|----------------------------|--------------|
|                  | D 2                             | D 4                 | D 5   | K    | E    |                            |              |
| 6                | 6.90                            | 9.50                | 11.00 | 1.00 | 0.87 | 8                          | 14.8         |
| 8                | 9.05                            | 11.75               | 13.50 | 1.13 | 0.87 | 8                          | 23.8         |
| 12               | 13.20                           | 17.00               | 19.00 | 1.25 | 1.00 | 12                         | 50.0         |

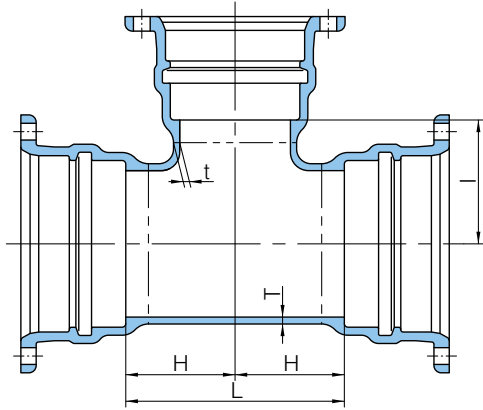
### ASME B 16.1 Class250

| SIZE<br>(INCHES) | OUTSIDE<br>DIAMETER<br>(INCHES) | DIMENSIONS (INCHES) |       |      |      | NUMBER<br>OF BOLT<br>HOLES | MASS<br>(LB) |
|------------------|---------------------------------|---------------------|-------|------|------|----------------------------|--------------|
|                  | D 2                             | D 4                 | D 5   | K    | E    |                            |              |
| 6                | 6.90                            | 10.63               | 12.50 | 1.44 | 0.87 | 12                         | 33.7         |
| 8                | 9.05                            | 13.00               | 15.00 | 1.63 | 1.00 | 12                         | 50.7         |
| 12               | 13.20                           | 17.75               | 20.50 | 2.00 | 1.25 | 16                         | 98.1         |

**Note:** Upon request, other class of flanges may be applied.

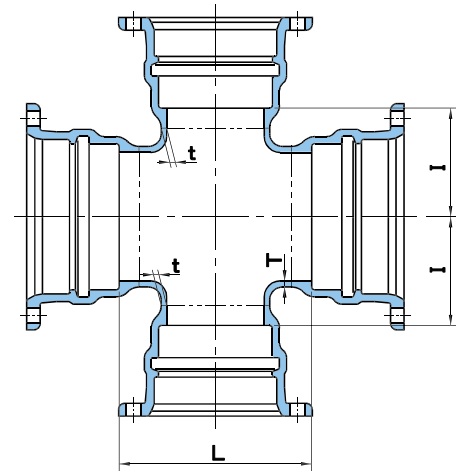
# Kubota BRAND FITTINGS

## GX-ALL SOCKET TEE



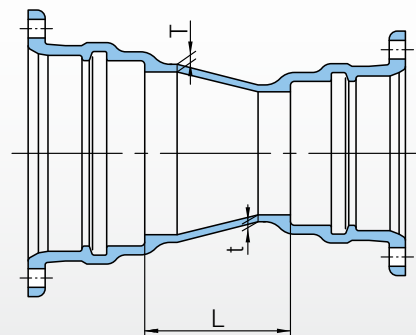
| SIZE (INCHES) |    | WALL THICKNESS (INCHES) |      | DIMENSIONS (INCHES) |      |       | MASS (LB) |
|---------------|----|-------------------------|------|---------------------|------|-------|-----------|
| D             | d  | T                       | t    | H                   | I    | L     |           |
| 6             | 6  | 0.36                    | 0.36 | 5.91                | 5.91 | 11.81 | 117       |
| 8             | 6  | 0.38                    | 0.36 | 5.91                | 6.69 | 11.81 | 142       |
| 8             | 8  | 0.38                    | 0.38 | 6.69                | 6.69 | 13.39 | 155       |
| 12            | 6  | 0.42                    | 0.36 | 5.71                | 9.25 | 11.42 | 238       |
| 12            | 8  | 0.42                    | 0.38 | 6.89                | 9.25 | 13.78 | 256       |
| 12            | 12 | 0.42                    | 0.42 | 9.25                | 9.25 | 18.50 | 317       |

## GX-ALL SOCKET CROSS



| SIZE (INCHES) |    | WALL THICKNESS (INCHES) |      | DIMENSIONS (INCHES) |     | MASS (LB) |
|---------------|----|-------------------------|------|---------------------|-----|-----------|
| D             | d  | T                       | t    | I                   | L   |           |
| 6             | 6  | 0.36                    | 0.36 | 11.8                | 5.9 | 149       |
| 8             | 8  | 0.38                    | 0.38 | 13.4                | 6.7 | 196       |
| 12            | 12 | 0.42                    | 0.42 | 18.5                | 9.3 | 399       |

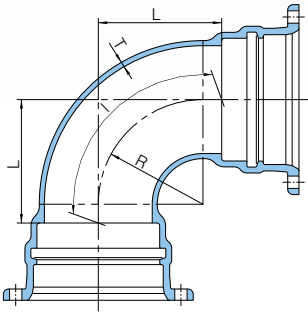
## GX-DOUBLE SOCKET REDUCER



| SIZE (INCHES) |   | WALL THICKNESS (INCHES) |      | NOMINAL LAYING LENGTH (INCHES) | MASS (LB) |
|---------------|---|-------------------------|------|--------------------------------|-----------|
| D             | d | T                       | t    | L                              |           |
| 8             | 6 | 0.38                    | 0.36 | 7.09                           | 84.7      |
| 12            | 6 | 0.42                    | 0.36 | 13.98                          | 151       |
| 12            | 8 | 0.42                    | 0.38 | 10.04                          | 151       |

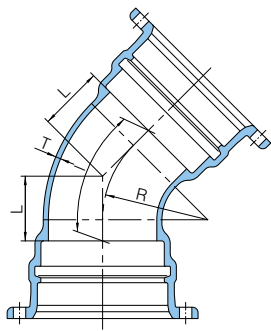
# Kubota BRAND FITTINGS

## GX-DOUBLE SOCKET 90° BEND



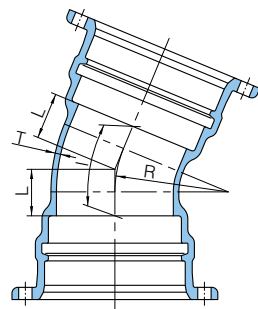
| SIZE<br>(INCHES) | WALL<br>THICKNESS<br>(INCHES) | DIMENSIONS<br>(INCHES) |       | LENGTH OF<br>CENTERLINE<br>(INCHES) | MASS<br>(LB) |
|------------------|-------------------------------|------------------------|-------|-------------------------------------|--------------|
|                  | T                             | R                      | L     | I                                   |              |
| 6                | 0.36                          | 5.71                   | 7.09  | 11.73                               | 82.2         |
| 8                | 0.38                          | 7.68                   | 9.06  | 14.80                               | 117          |
| 12               | 0.42                          | 9.06                   | 10.43 | 16.97                               | 229          |

## GX-DOUBLE SOCKET 45° BEND



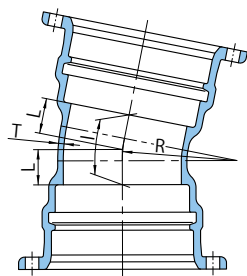
| SIZE<br>(INCHES) | WALL<br>THICKNESS<br>(INCHES) | DIMENSIONS<br>(INCHES) |      | LENGTH OF<br>CENTERLINE<br>(INCHES) | MASS<br>(LB) |
|------------------|-------------------------------|------------------------|------|-------------------------------------|--------------|
|                  | T                             | R                      | L    | I                                   |              |
| 6                | 0.36                          | 5.71                   | 3.94 | 7.64                                | 74.5         |
| 8                | 0.38                          | 7.68                   | 4.72 | 9.13                                | 101          |
| 12               | 0.42                          | 9.06                   | 5.12 | 9.84                                | 197          |

## GX-DOUBLE SOCKET 22 1/2° BEND



| SIZE<br>(INCHES) | WALL<br>THICKNESS<br>(INCHES) | DIMENSIONS<br>(INCHES) |      | LENGTH OF<br>CENTERLINE<br>(INCHES) | MASS<br>(LB) |
|------------------|-------------------------------|------------------------|------|-------------------------------------|--------------|
|                  | T                             | R                      | L    | I                                   |              |
| 6                | 0.36                          | 5.71                   | 2.76 | 5.47                                | 70.3         |
| 8                | 0.38                          | 7.68                   | 3.15 | 6.26                                | 93.5         |
| 12               | 0.42                          | 9.06                   | 3.35 | 6.65                                | 183          |

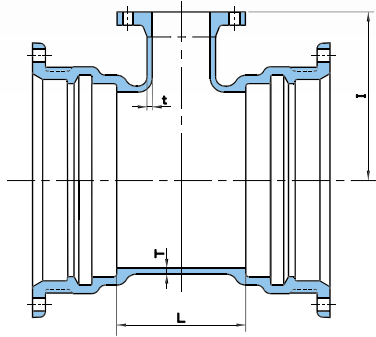
## GX-DOUBLE SOCKET 11 1/4° BEND



| SIZE<br>(INCHES) | WALL<br>THICKNESS<br>(INCHES) | DIMENSIONS<br>(INCHES) |      | LENGTH OF<br>CENTERLINE<br>(INCHES) | MASS<br>(LB) |
|------------------|-------------------------------|------------------------|------|-------------------------------------|--------------|
|                  | T                             | R                      | L    | I                                   |              |
| 6                | 0.36                          | 5.71                   | 1.97 | 3.94                                | 67.5         |
| 8                | 0.38                          | 7.68                   | 2.36 | 4.72                                | 89.5         |
| 12               | 0.42                          | 9.06                   | 2.36 | 4.72                                | 175          |

# Kubota BRAND FITTINGS

## GX-DOUBLE SOCKET TEE WITH FLANGED BRANCH

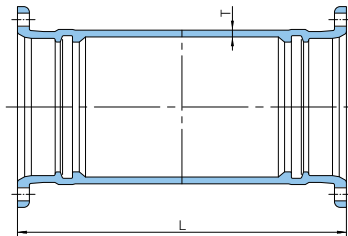


**Note:** Upon request, other class of flanges may be applied.

### ASME B 16.1 Class125

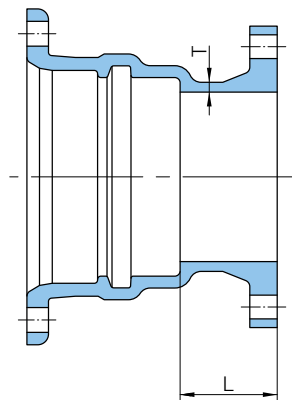
| SIZE (INCHES) |    | WALL THICKNESS (INCHES) |      | DIMENSIONS (INCHES) |      | MASS (LB) |
|---------------|----|-------------------------|------|---------------------|------|-----------|
| D             | d  | T                       | t    | L                   | I    |           |
| 6             | 4  | 0.36                    | 0.34 | 11.8                | 9.8  | 100       |
| 6             | 6  | 0.36                    | 0.36 | 11.8                | 9.8  | 108       |
| 8             | 4  | 0.38                    | 0.34 | 11.8                | 9.8  | 125       |
| 8             | 6  | 0.38                    | 0.36 | 11.8                | 9.8  | 131       |
| 8             | 8  | 0.38                    | 0.38 | 13.4                | 10.6 | 150       |
| 12            | 4  | 0.42                    | 0.34 | 11.4                | 11.8 | 220       |
| 12            | 6  | 0.42                    | 0.36 | 11.4                | 12.2 | 227       |
| 12            | 8  | 0.42                    | 0.38 | 13.8                | 12.6 | 249       |
| 12            | 12 | 0.42                    | 0.42 | 18.5                | 13.0 | 306       |

## GX-COLLAR



| SIZE (INCHES) | WALL THICKNESS (INCHES) | DIMENSIONS (INCHES) | MASS (LB) |
|---------------|-------------------------|---------------------|-----------|
|               | T                       | L                   |           |
| 6             | 0.47                    | 21.65               | 94.8      |
| 8             | 0.47                    | 22.05               | 121       |
| 12            | 0.55                    | 25.39               | 234       |

## GX-FLANGED SOCKET



**Note:** Upon request, other class of flanges may be applied.

### ASME B 16.1 Class125

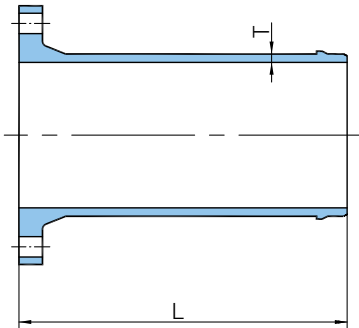
| SIZE (INCHES) | WALL THICKNESS (INCHES) | DIMENSIONS (INCHES) | MASS (LB) |
|---------------|-------------------------|---------------------|-----------|
|               | T                       | L                   |           |
| 6             | 0.36                    | 3.54                | 51.4      |
| 8             | 0.38                    | 3.54                | 71.4      |
| 12            | 0.52                    | 3.94                | 144       |

### ASME B 16.1 Class250

| SIZE (INCHES) | WALL THICKNESS (INCHES) | DIMENSIONS (INCHES) | MASS (LB) |
|---------------|-------------------------|---------------------|-----------|
|               | T                       | L                   |           |
| 6             | 0.36                    | 5.12                | 73.1      |
| 8             | 0.38                    | 5.12                | 103       |
| 12            | 0.52                    | 6.10                | 208       |

# Kubota BRAND FITTINGS

## GX-FLANGED SPIGOT



**Note:** Upon request, other class of flanges may be applied.

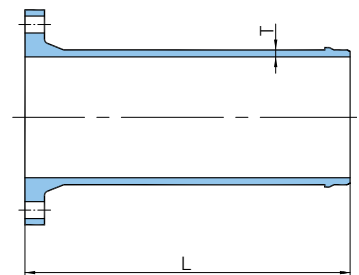
### ASME B 16.1 Class125

| SIZE<br>(INCHES) | WALL THICKNESS<br>(INCHES) | NOMINAL LAYING<br>LENGTH (INCHES) | MASS<br>(LB) |
|------------------|----------------------------|-----------------------------------|--------------|
|                  | T                          | L                                 |              |
| 6                | 0.36                       | 15.75                             | 44.8         |
| 8                | 0.38                       | 16.14                             | 67.2         |
| 12               | 0.42                       | 18.90                             | 133          |

### ASME B 16.1 Class250

| SIZE<br>(INCHES) | WALL THICKNESS<br>(INCHES) | NOMINAL LAYING<br>LENGTH (INCHES) | MASS<br>(LB) |
|------------------|----------------------------|-----------------------------------|--------------|
|                  | T                          | L                                 |              |
| 6                | 0.36                       | 17.32                             | 66.6         |
| 8                | 0.38                       | 18.11                             | 99.7         |
| 12               | 0.42                       | 18.90                             | 181          |

## GX-FLANGED SPIGOT FOR GX-COLLAR CONNECTION



**Note:** Upon request, other class of flanges may be applied.

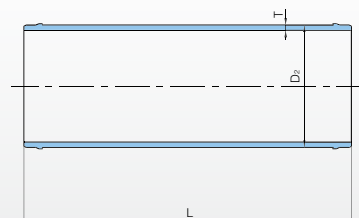
### ASME B 16.1 Class125

| SIZE<br>(INCHES) | WALL THICKNESS<br>(INCHES) | NOMINAL LAYING<br>LENGTH (INCHES) | MASS<br>(LB) |
|------------------|----------------------------|-----------------------------------|--------------|
|                  | T                          | L                                 |              |
| 6                | 0.36                       | 23.30                             | 59.3         |
| 8                | 0.38                       | 24.09                             | 88.6         |
| 12               | 0.42                       | 28.31                             | 174          |

### ASME B 16.1 Class250

| SIZE<br>(INCHES) | WALL THICKNESS<br>(INCHES) | NOMINAL LAYING<br>LENGTH (INCHES) | MASS<br>(LB) |
|------------------|----------------------------|-----------------------------------|--------------|
|                  | T                          | L                                 |              |
| 6                | 0.36                       | 23.30                             | 78.9         |
| 8                | 0.38                       | 24.09                             | 117          |
| 12               | 0.42                       | 28.31                             | 231          |

## GX-NIPPLE

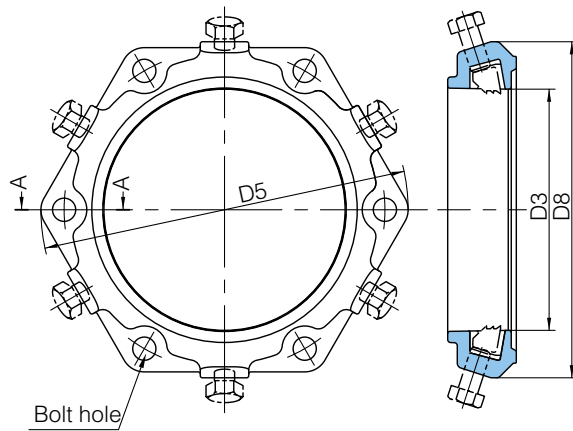


| SIZE<br>(INCHES) | WALL THICKNESS<br>(INCHES) | NOMINAL LAYING<br>LENGTH (INCHES) | MASS<br>(LB) |
|------------------|----------------------------|-----------------------------------|--------------|
|                  | T                          | L                                 |              |
| 6                | 0.41                       | 24.02                             | 51.8         |
| 8                | 0.43                       | 24.02                             | 72.5         |
| 12               | 0.46                       | 24.02                             | 116          |

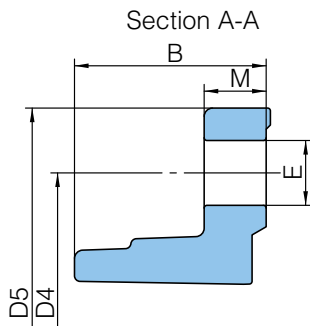
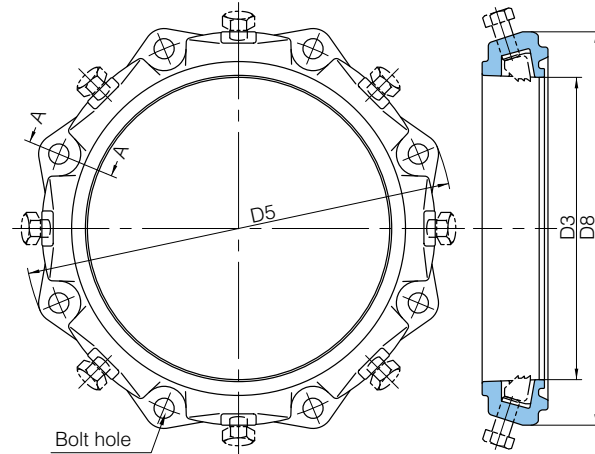
# Kubota BRAND FITTINGS

## G-LINK FOR CUT PIPE

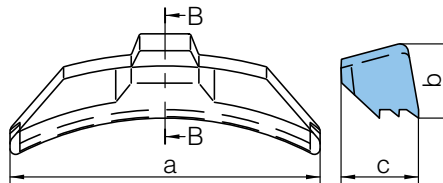
Size 6" and 8"



Size 12"

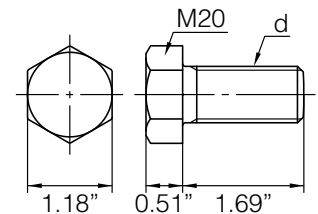


Wedge



Section B-B

Lock-bolt

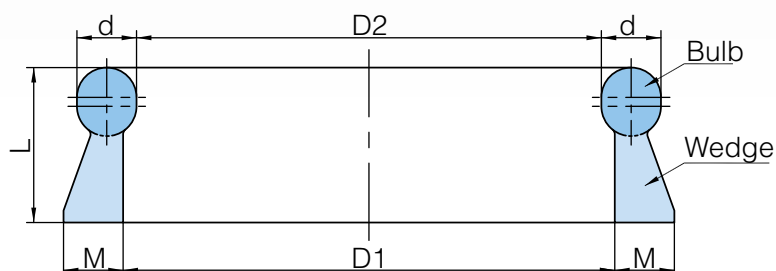


| SIZE<br>(INCHES) | BODY                |       |       |       |      |      |      |                            |              | WEDGE                  |      |      |                        | LOCK-BOLT |                            |
|------------------|---------------------|-------|-------|-------|------|------|------|----------------------------|--------------|------------------------|------|------|------------------------|-----------|----------------------------|
|                  | DIMENSIONS (INCHES) |       |       |       |      |      |      | NUMBER<br>OF BOLT<br>HOLES | MASS<br>(LB) | DIMENSIONS<br>(INCHES) |      |      | NUMBER<br>OF<br>WEDGES | SIZE      | NUMBER<br>OF LOCK-<br>BOLT |
|                  | D3                  | D4    | D5    | D8    | B    | M    | E    |                            |              | a                      | b    | c    |                        | d         |                            |
|                  |                     |       |       |       |      |      |      |                            |              |                        |      |      |                        |           |                            |
| 6                | 7.26                | 10.44 | 12.26 | 10.81 | 2.40 | 0.83 | 0.91 | 6                          | 14.8         | 3.31                   | 0.84 | 0.96 | 6                      | M20       | 6                          |
| 8                | 9.41                | 12.52 | 14.33 | 13.11 | 2.68 | 0.87 | 0.91 | 6                          | 21.7         | 4.33                   | 1.04 | 1.08 | 6                      | M20       | 6                          |
| 12               | 13.56               | 17.46 | 19.27 | 17.65 | 2.95 | 1.02 | 0.91 | 8                          | 44.8         | 4.84                   | 1.16 | 1.16 | 8                      | M20       | 8                          |

**Note:** 1. Wedge will be of ductile iron conforming to FCD450-10 of JIS G 5502. In addition, wedge will be in the groove with rubber in an appropriate manner.  
2. Lock-bolt will be of stainless steel (SUS304, SUS304J3 or SUSXM7) and is indicated metric threads.

# ACCESSORIES FOR Kubota BRAND FITTINGS

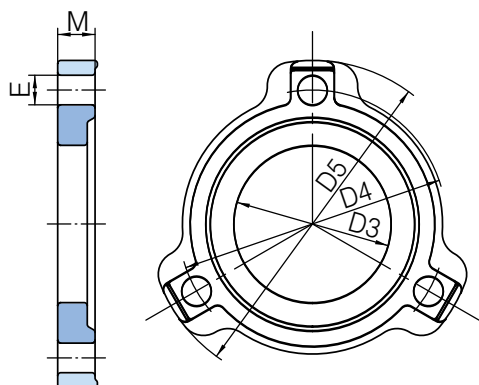
## RUBBER GASKET FOR Kubota BRAND FITTINGS



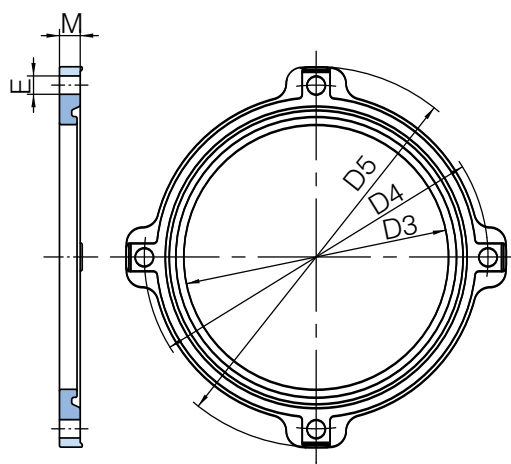
| SIZE<br>(INCHES) | DIMENSIONS (INCHES) |       |      |      |      |
|------------------|---------------------|-------|------|------|------|
|                  | D 1                 | D 2   | d    | L    | M    |
| 6                | 6.74                | 6.39  | 0.79 | 1.97 | 0.79 |
| 8                | 8.89                | 8.54  | 0.79 | 1.97 | 0.79 |
| 12               | 12.93               | 12.56 | 0.85 | 2.13 | 0.87 |

## GLAND

Size 6" and 8"



Size 12"

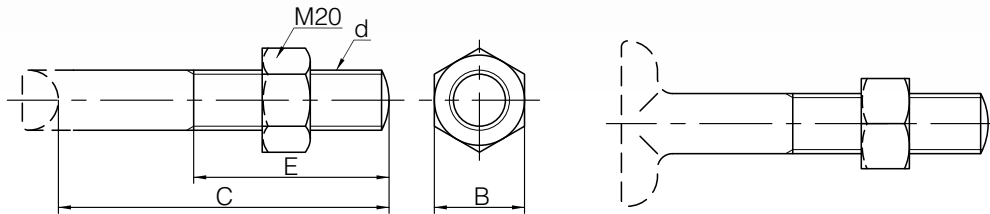


| SIZE<br>(INCHES) | DIMENSIONS (INCHES) |       |       |      |      | NUMBER OF<br>BOLT HOLES | MASS (LB) |
|------------------|---------------------|-------|-------|------|------|-------------------------|-----------|
|                  | D 3                 | D 4   | D 5   | M    | E    |                         |           |
| 6                | 7.26                | 10.44 | 12.26 | 0.83 | 0.91 | 3                       | 7.7       |
| 8                | 9.41                | 12.52 | 14.33 | 0.87 | 0.91 | 3                       | 11.0      |
| 12               | 13.56               | 17.46 | 19.27 | 1.02 | 0.91 | 4                       | 19.2      |



# ACCESSORIES FOR Kubota BRAND FITTINGS

## T-HEAD BOLT AND NUT

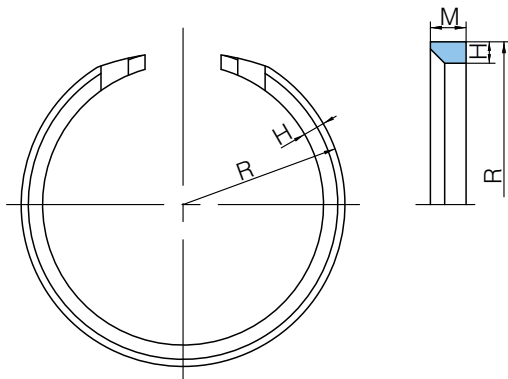


| SIZE<br>(INCHES) | d    | DIMENSIONS (INCHES) |      |      | NO.  |
|------------------|------|---------------------|------|------|------|
|                  |      | B                   | C    | E    |      |
| 6                | M 20 | 1.18                | 3.94 | 2.76 | 3(6) |
| 8                | M 20 | 1.18                | 3.94 | 2.76 | 3(6) |
| 12               | M 20 | 1.18                | 4.33 | 2.95 | 4(8) |

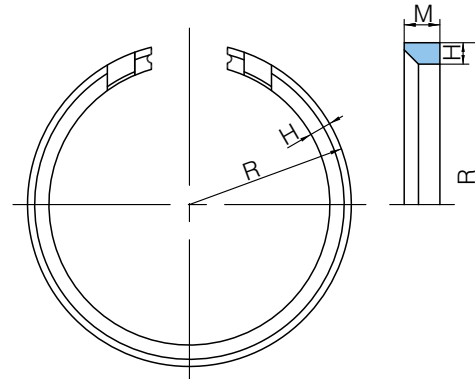
**Note:** 1. T-head Bolt and Nut is indicated metric threads.  
2. No. in parentheses shows G-Link use.

## LOCK RING

Size 6" and 8"



Size 12"



| SIZE<br>(INCHES) | DIMENSIONS (INCHES) |      |      | NUMBER OF<br>BOLT HOLES |
|------------------|---------------------|------|------|-------------------------|
|                  | H                   | M    | R    |                         |
| 6                | 0.35                | 0.59 | 3.81 | 0.9                     |
| 8                | 0.35                | 0.59 | 4.88 | 1.2                     |
| 12               | 0.43                | 0.79 | 7.00 | 3.0                     |

**Note:** Same Lock ring is used for pipes.

## MEMOS

## MEMOS

# About McWane Ductile

McWane Ductile is one of the country’s most experienced manufacturers and suppliers of Ductile iron pipe for water and wastewater infrastructure applications. With foundries in Phillipsburg, New Jersey; Coshocton, Ohio; and Provo, Utah, McWane Ductile provides 3-inch through 36-inch Ductile iron pressure pipe, fabrication services, fittings, accessories, linings, coatings, and technical support to customers throughout North America. Since 1921, the company has remained committed to safety, quality, innovation, and helping utilities build Iron Strong® utilities for generations.

# About Kubota

Kubota has developed Ductile iron pipe technologies for water infrastructure applications worldwide, including Hazard Resilient Ductile Iron Pipe (HRDIP) technology designed to withstand earthquakes and other natural hazards. Kubota’s Ductile iron pipe solutions are recognized for their strength, durability, corrosion resistance, and focus on supporting reliable water infrastructure systems.

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