



DUCTILE IRON PIPE & FITTINGS

AS / NZS 2280

Compatible with PVC
Series 1 & 2, GRP,
Ductile Iron & AC Pipelines

VERSION 1.0

clover 








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| | |
|---|----|
|  Compatible Pipelines | 4 |
|  Technical Data | 5 |
|  Product Range | |
| DI Pipe & Fittings | 6 |
| Mechanical Couplings | 15 |
| Valves & Hydrants | 17 |
| Service Connections | 21 |
| Streetware | 24 |
| Accessories | 26 |
|  Joining & Assembly | 30 |
|  Product Dimensions | 32 |
| Reference Documents: | |
| › Clover PVC Pipe and Fittings Product Guide | |
| › Clover GRP Pipe and Fittings Product Guide | |

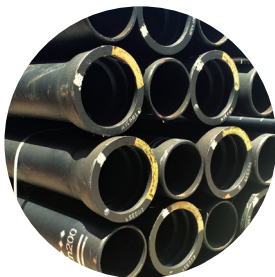
AS / NZS2280 Ductile Iron Fittings are compatible for use with the following pipeline materials:



PVC Pressure Pipe Series 1 & 2

(Refer to Clover PVC Pipe & Fittings Product Guide)

| | |
|-----------------|---|
| Size Range: | DN100 - DN600 |
| Pressure Range: | PN6 - PN25 |
| Materials: | OPVC, MPVC & UPVC |
| Colours: | Blue, Purple, White and Cream |
| Joining: | Rubber Ring (RRJ) & Solvent Cement (SCJ) |
| Standards: | AS / NZS4441 (oPVC), AS / NZS4765 (mPVC), AS / NZS1477 (uPVC) |



Ductile Iron Pipe

| | |
|------------------|--|
| Size Range: | DN80 - DN750 |
| Pressure Range: | PN20 & PN35 |
| Coating Options: | Standard Bitumen cement lined, Fusion / Epoxy Coating (fabricated specials), |
| Joining: | Rubber Ring Joint, flanged Restraint Joint rubber ring |
| Standards: | AS / NZS2280 |



GRP Pipe Systems

(Refer to Clover GRP Pipe & Fittings Product Guide)

| | |
|-----------------|---|
| Size Range: | DN300 – DN4000 |
| Pressure Range: | PN1 – PN40 |
| Stiffness: | SN1250 – SN1,000,000 |
| Materials: | Continuous Filament Wound or Centrifugal Cast |
| Joining: | Integrated Rubber Ring Coupling |
| Compliance: | WSAA Appraisal 1419 + 1420 Part 1 & 2 |
| Diameters: | AS / NZS2280 Compatible (DN 300 – DN 750) |
| Standards: | AS3571.1, AS3571.2, ISO 10467, ISO 10639 |

Legacy Pipelines

Existing pipelines no longer manufactured –

| | |
|------------------|--|
| Grey Cast Iron: | Class B (AS1724) Class C (AS2544) |
| Asbestos Cement: | Class AB (AS1711) Class CD (AS1711) |



Product Applications

- › Water reticulation applications
- › Potable and non-potable pressure pipelines including rising mains and pump stations
- › Fire service mains
- › Irrigation applications

Features & Benefits

- › High strength and impact resistant ductile iron
- › Thermal bonded polymeric coating provides corrosion, impact and abrasion resistance (Standard coating for fittings).
- › Range of pipes and fittings suitable for PN16 to PN35 pipelines.
- › Fittings can be supplied cement lined and bitumen coated if required.
- › Fittings are compatible with Ductile Iron pipes to AS / NZS2280 and PVC Series 2 pipes to AS / NZS1477 Series 2.
- › A Series 2-Series 1 Conversion Seal can be used in the socket fittings to provide compatibility with AS / NZS1477 Series 1 pipelines.

Ordering Information

- › All Fittings are coated with a thermal bonded polymeric coating unless shown otherwise. Fittings can be made available cement lined and bitumen coated upon request.
- › Flanged fittings are standard PN16 rating. PN35 and other high pressure flanges can be made available upon special request.
- › PVC Series 1 compatibility – Socket fittings can be fitted with a conversion seal to provide compatibility with PVC Series 1 pipe dimensions. Request “Series 1” fittings at time of ordering.
- › Seals are supplied with Socket fittings. Flange gasket sets are not included with flange fittings and are sold separately.

Technical Data

- › Ductile Iron pipes and fittings comply fully with the requirements of the following standards:
 - › AS / NZS 2280 Ductile iron pressure pipes and fittings
 - › AS4087 Metallic flanges for waterworks purposes
 - › AS4020 Products in contact with drinking water
- › Coatings comply to the following standards:
 - › AS4158 Thermal bonded polymeric coatings
 - › AS / NZS3750.4 Bitumen Paint
- › Size Range: DN80 to DN750
- › Pressure Rating: The allowable pressure for a pipeline system is limited to the lowest pressure classification of all pipes, fittings & components within the pipe system. (Refer table below)
- › Fitting Pressure Classification:
 - › Socket fittings PN35 unless shown otherwise
 - › Spigot fittings PN35 unless shown otherwise
 - › Flange fittings PN16 (Standard flanges)
PN35 (Optional high pressure flange)

Socket and Spigot fittings are also available in light weight PN16 and will be shown as such on the fitting. All Flanges must show the relevant pressure rating.

Allowable Pipeline Pressure (MPa)

| Type | PN16 | PN20 | PN35 |
|------------------------------|------|------|------|
| Allowable Operating Pressure | 1.60 | 2.00 | 3.50 |
| Max Allow Operating Pressure | 1.92 | 2.40 | 4.20 |
| Allowable Site Test Pressure | 2.00 | 2.50 | 4.38 |

- › **Allowable Operating Pressure:** The allowable internal pressure, excluding surge, that a component can safely withstand in service.
- › **Maximum allowable operating pressure:** The maximum internal pressure, including surge, that a component can safely withstand in service. (Refer table above)
- › **Allowable site test pressure:** Maximum pressure applied on site in a newly installed pipeline, includes a safety factor and allowances for surge.

Ductile Iron Pipe – Cement Lined



| Diameter | PN | Seal Coat | Calcium Aluminate |
|----------|----|------------|-------------------|
| 100 | 35 | DPSC100/35 | DPCA100 / 35 |
| 150 | 35 | DPSC150/35 | DPCA150 / 35 |
| 200 | 35 | DPSC200/35 | DPCA200 / 35 |
| 225 | 35 | DPSC225/35 | DPCA225 / 35 |
| 250 | 35 | DPSC250/35 | DPCA250 / 35 |
| 300 | 35 | DPSC300/35 | DPCA300 / 35 |
| 375 | 35 | DPSC375/35 | DPCA375 / 35 |
| 450 | 35 | DPSC450/35 | DPCA450 / 35 |
| 500 | 35 | DPSC500/35 | DPCA500 / 35 |
| 600 | 35 | DPSC600/35 | DPCA600 / 35 |
| 750 | 35 | DPSC750/35 | DPCA750 / 35 |

PN20 & flange class options also available.

Special coatings & linings including Polyurethane & Epoxy available.

Fabricated DI Pipework



AS / NZS2280 Ductile Iron Fabricated Pipe Sections
(Length, configuration & coating to suit project requirements)

- Material: Ductile Iron PN35 Flange Class, K12
- Size Range: DN80 to DN750
- End Configurations: Fl / Fl, Fl / Soc, Fl / Sp, Soc / Sp
- Flange Drillings: PN16 – AS4087 (Table C, D AS2129)
Table E – AS2129
PN35 – AS4087 (Table F, H AS2129)
- Coatings: Bitumen Coated Cement Lined,
Fusion / Epoxy Coating
- Options: Weep / Thrust Flange, BSP Pipe Tapping

Bend – Socket



| Diameter | 11 ¼ deg | 22 ½ deg | 45 deg | 90 deg |
|----------|----------|----------|----------|----------|
| 80 | DBSS0811 | DBSS0822 | DBSS0845 | DBSS0890 |
| 100 | DBSS1011 | DBSS1022 | DBSS1045 | DBSS1090 |
| 150 | DBSS1511 | DBSS1522 | DBSS1545 | DBSS1590 |
| 200 | DBSS2011 | DBSS2022 | DBSS2045 | DBSS2090 |
| 225 | DBSS2211 | DBSS2222 | DBSS2245 | DBSS2290 |
| 250 | DBSS2511 | DBSS2522 | DBSS2545 | DBSS2590 |
| 300 | DBSS3011 | DBSS3022 | DBSS3045 | DBSS3090 |
| 375 | DBSS3711 | DBSS3722 | DBSS3745 | DBSS3790 |
| 450 | DBSS4511 | DBSS4522 | DBSS4545 | DBSS4590 |
| 500 | DBSS5011 | DBSS5022 | DBSS5045 | DBSS5090 |
| 600 | DBSS6011 | DBSS6022 | DBSS6045 | DBSS6090 |
| 750 | DBSS7511 | DBSS7522 | DBSS7545 | DBSS7590 |

Bend – Flange



| Diameter | 11 ¼ deg | 22 ½ deg | 45 deg | 90 deg |
|----------|----------|----------|----------|----------|
| 080 | DBFF0811 | DBFF0822 | DBFF0845 | DBFF0890 |
| 100 | DBFF1011 | DBFF1022 | DBFF1045 | DBFF1090 |
| 150 | DBFF1511 | DBFF1522 | DBFF1545 | DBFF1590 |
| 200 | DBFF2011 | DBFF2022 | DBFF2045 | DBFF2090 |
| 225 | DBFF2211 | DBFF2222 | DBFF2245 | DBFF2290 |
| 250 | DBFF2511 | DBFF2522 | DBFF2545 | DBFF2590 |
| 300 | DBFF3011 | DBFF3022 | DBFF3045 | DBFF3090 |
| 375 | DBFF3711 | DBFF3722 | DBFF3745 | DBFF3790 |
| 450 | DBFF4511 | DBFF4522 | DBFF4545 | DBFF4590 |
| 500 | DBFF5011 | DBFF5022 | DBFF5045 | DBFF5090 |
| 600 | DBFF6011 | DBFF6022 | DBFF6045 | DBFF6090 |
| 750 | DBFF7511 | DBFF7522 | DBFF7545 | DBFF7590 |

Bend – Spigot



| Diameter | 11 ¼ deg | 22 ½ deg | 45 deg | 90 deg |
|----------|----------|----------|----------|----------|
| 80 | DBPP0811 | DBPP0822 | DBPP0845 | DBPP0890 |
| 100 | DBPP1011 | DBPP1022 | DBPP1045 | DBPP1090 |
| 150 | DBPP1511 | DBPP1522 | DBPP1545 | DBPP1590 |
| 200 | DBPP2011 | DBPP2022 | DBPP2045 | DBPP2090 |
| 225 | DBPP2211 | DBPP2222 | DBPP2245 | DBPP2290 |
| 250 | DBPP2511 | DBPP2522 | DBPP2545 | DBPP2590 |
| 300 | DBPP3011 | DBPP3022 | DBPP3045 | DBPP3090 |
| 375 | DBPP3711 | DBPP3722 | DBPP3745 | DBPP3790 |
| 450 | DBPP4511 | DBPP4522 | DBPP4545 | DBPP4590 |
| 500 | DBPP5011 | DBPP5022 | DBPP5045 | DBPP5090 |
| 600 | DBPP6011 | DBPP6022 | DBPP6045 | DBPP6090 |
| 750 | DBPP7511 | DBPP7522 | DBPP7545 | DBPP7590 |

Bend – Hydrant / Washout



| Diameter | Type | Product code |
|-----------|--------------|--------------|
| 100 x 80 | Hydrant Bend | DBSFH1008 |
| 150 x 80 | Hydrant Bend | DBSFH1508 |
| 100 x 100 | Washout Bend | DBSFW1090 |
| 150 x 100 | Washout Bend | DBSFW1590 |

Bend – Flange Duckfoot



| Diameter (100 – 250) | Product code | Diameter (300 – 600) | Product code |
|----------------------|--------------|----------------------|--------------|
| 100 | DBFFD1090 | 300 | DBFFD3090 |
| 150 | DBFFD1590 | 375 | DBFFD3790 |
| 200 | DBFFD2090 | 450 | DBFFD4590 |
| 225 | DBFFD2290 | 500 | DBFFD5090 |
| 250 | DBFFD2590 | 600 | DBFFD6090 |



Bend – Socket / Flange



| Diameter | 11 ¼ deg | 22 ½ deg | 45 deg | 90 deg |
|----------|----------|----------|----------|----------|
| 100 | DBSF1011 | DBSF1022 | DBSF1045 | DBSF1090 |
| 150 | DBSF1511 | DBSF1522 | DBSF1545 | DBSF1590 |
| 200 | DBSF2011 | DBSF2022 | DBSF2045 | DBSF2090 |
| 225 | DBSF2211 | DBSF2222 | DBSF2245 | DBSF2290 |
| 250 | DBSF2511 | DBSF2522 | DBSF2545 | DBSF2590 |
| 300 | DBSF3011 | DBSF3022 | DBSF3045 | DBSF3090 |
| 375 | DBSF3711 | DBSF3722 | DBSF3745 | DBSF3790 |
| 450 | DBSF4511 | DBSF4522 | DBSF4545 | DBSF4590 |
| 500 | DBSF5011 | DBSF5022 | DBSF5045 | DBSF5090 |
| 600 | DBSF6011 | DBSF6022 | DBSF6045 | DBSF6090 |
| 750 | DBSF7511 | DBSF7522 | DBSF7545 | DBSF7590 |

Connector



| Diameter | Socket / Socket | Socket / Flange | Flange / Spigot |
|----------|-----------------|-----------------|-----------------|
| 100 | DCSS100 | DCSF100 | DCPF100 |
| 150 | DCSS150 | DCSF150 | DCPF150 |
| 200 | DCSS200 | DCSF200 | DCPF200 |
| 225 | DCSS225 | DCSF225 | DCPF225 |
| 250 | DCSS250 | DCSF250 | DCPF250 |
| 300 | DCSS300 | DCSF300 | DCPF300 |
| 375 | DCSS375 | DCSF375 | DCPF375 |
| 450 | DCSS450 | DCSF450 | DCPF450 |
| 500 | DCSS500 | DCSF500 | DCPF500 |
| 600 | DCSS600 | DCSF600 | DCPF600 |
| 750 | DCSS750 | DCSF750 | DCPF750 |

Pretap Connector – 2 Outlets (Dual)



| Dia | Tapping | Standard | Recycled | Dia | Tapping | Standard | Recycled |
|-----|---------|-----------|------------|-----|---------|-----------|------------|
| 100 | 20 BSP | DCSST1020 | DCSST1020L | 150 | 20 BSP | DCCST1520 | DCCST1520L |
| 100 | 25 BSP | DCSST1025 | DCSST1025L | 150 | 25 BSP | DCSST1525 | DCSST1525L |
| 100 | 32 BSP | DCSST1032 | DCSST1032L | 150 | 32 BSP | DCSST1532 | DCSST1532L |
| 100 | 40 BSP | DCSST1040 | DCSST1040L | 150 | 40 BSP | DCSST1540 | DCSST1540L |
| 100 | 50 BSP | DCSST1050 | DCSST1050L | 150 | 50 BSP | DCSST1550 | DCSST1550L |

Pretap Connector – 4 Outlets (Quad)



| Diameter | Tapping | Standard | Recycled |
|----------|---------|------------|-------------|
| 100 | 20 BSP | DCSST1020Q | DCSST1020QL |
| 100 | 25 BSP | DCSST1025Q | DCSST1025QL |
| 150 | 20 BSP | DCSST1520Q | DCSST1520QL |
| 150 | 25 BSP | DCSST1525Q | DCSST1525QL |

Pretap Connector – 1 Outlet (Single)



| Dia | Tapping | Standard | Recycled |
|-----|---------|------------|-------------|
| 100 | 25 BSP | DCSST1025S | DCSST1025SL |
| 100 | 32 BSP | DCSST1032S | DCSST1032SL |
| 100 | 40 BSP | DCSTT1040S | DCSTT1040SL |
| 100 | 50 BSP | DCSTT1050S | DCSTT1050SL |

| Dia | Tapping | Standard | Recycled |
|-----|---------|------------|-------------|
| 150 | 25 BSP | DCSTT1525S | DCSTT1525SL |
| 150 | 32 BSP | DCSTT1532S | DCSTT1532SL |
| 150 | 40 BSP | DCSTT1540S | DCSTT1540SL |
| 150 | 50 BSP | DCSTT1550S | DCSTT1550SL |

Reducer



| Diameter | Socket | Soc / Flg | Spigot | Spig / Flg | Flange | Flg Eccentric |
|-----------|----------|-----------|----------|------------|----------|---------------|
| 100 x 80 | DRSS1008 | DRSF1008 | DRPP1008 | DRPF1008 | DRFF1008 | DRFFE1008 |
| 150 x 80 | DRSS1508 | DRSF1508 | DRPP1508 | DRPF1508 | DRFF1508 | DRFFE1508 |
| 150 x 100 | DRSS1510 | DRSF1510 | DRPP1510 | DRPF1510 | DRFF1510 | DRFFE1510 |
| 200 x 100 | DRSS2010 | DRSF2010 | DRPP2010 | DRPF2010 | DRFF2010 | DRFFE2010 |
| 200 x 150 | DRSS2015 | DRSF2015 | DRPP2015 | DRPF2015 | DRFF2015 | DRFFE2015 |
| 225 x 100 | DRSS2210 | DRSF2210 | DRPP2210 | DRPF2210 | DRFF2210 | DRFFE2210 |
| 225 x 150 | DRSS2215 | DRSF2215 | DRPP2215 | DRPF2215 | DRFF2215 | DRFFE2215 |
| 225 x 200 | DRSS2220 | DRSF2220 | DRPP2220 | DRPF2220 | DRFF2220 | DRFFE2220 |
| 250 x 100 | DRSS2510 | DRSF2510 | DRPP2510 | DRPF2510 | DRFF2510 | DRFFE2510 |
| 250 x 150 | DRSS2515 | DRSF2515 | DRPP2515 | DRPF2515 | DRFF2515 | DRFFE2515 |
| 250 x 200 | DRSS2520 | DRSF2520 | DRPP2520 | DRPF2520 | DRFF2520 | DRFFE2520 |
| 250 x 225 | DRSS2522 | DRSF2522 | DRPP2522 | DRPF2522 | DRFF2522 | DRFFE2522 |
| 300 x 100 | DRSS3010 | DRSF3010 | DRPP3010 | DRPF3010 | DRFF3010 | DRFFE3010 |
| 300 x 150 | DRSS3015 | DRSF3015 | DRPP3015 | DRPF3015 | DRFF3015 | DRFFE3015 |
| 300 x 200 | DRSS3020 | DRSF3020 | DRPP3020 | DRPF3020 | DRFF3020 | DRFFE3020 |
| 300 x 225 | DRSS3022 | DRSF3022 | DRPP3022 | DRPF3022 | DRFF3022 | DRFFE3022 |
| 300 x 250 | DRSS3025 | DRSF3025 | DRPP3025 | DRPF3025 | DRFF3025 | DRFFE3025 |
| 375 x 200 | DRSS3720 | DRSF3720 | DRPP3720 | DRPF3720 | DRFF3720 | DRFFE3720 |
| 450 x 250 | DRSS4525 | DRSF4525 | DRPP4525 | DRPF4525 | DRFF4525 | DRFFE4525 |
| 450 x 300 | DRSS4530 | DRSF4530 | DRPP4530 | DRPF4530 | DRFF4530 | DRFFE4530 |
| 450 x 375 | DRSS4537 | DRSF4537 | DRPP4537 | DRPF4537 | DRFF4537 | DRFFE4537 |
| 375 x 225 | DRSS3722 | DRSF3722 | DRPP3722 | DRPF3722 | DRFF3722 | DRFFE3722 |
| 375 x 250 | DRSS3725 | DRSF3725 | DRPP3725 | DRPF3725 | DRFF3725 | DRFFE3725 |
| 375 x 300 | DRSS3730 | DRSF3730 | DRPP3730 | DRPF3730 | DRFF3730 | DRFFE3730 |
| 500 x 250 | DRSS5025 | DRSF5025 | DRPP5025 | DRPF5025 | DRFF5025 | DRFFE5025 |
| 500 x 300 | DRSS5030 | DRSF5030 | DRPP5030 | DRPF5030 | DRFF5030 | DRFFE5030 |
| 500 x 375 | DRSS5037 | DRSF5037 | DRPP5037 | DRPF5037 | DRFF5037 | DRFFE5037 |
| 500 x 450 | DRSS5045 | DRSF5045 | DRPP5045 | DRPF5045 | DRFF5045 | DRFFE5045 |
| 600 x 300 | DRSS6030 | DRSF6030 | DRPP6030 | DRPF6030 | DRFF6030 | DRFFE6030 |
| 600 x 375 | DRSS6037 | DRSF6037 | DRPP6037 | DRPF6037 | DRFF6037 | DRFFE6037 |
| 600 x 450 | DRSS6045 | DRSF6045 | DRPP6045 | DRPF6045 | DRFF6045 | DRFFE6045 |
| 600 x 500 | DRSS6050 | DRSF6050 | DRPP6050 | DRPF6050 | DRFF6050 | DRFFE6050 |
| 750 x 600 | DRSS7560 | DRSF7560 | DRPP7560 | DRPF7560 | DRFF7560 | DRFFE7560 |



Tee

| Diameter | Socket | Soc / Flg | Soc / Sp / Flg | Spigot | Spig / Flg | Flange |
|-----------|----------|-----------|----------------|----------|------------|----------|
| 80 x 080 | DTSS0808 | DTSF0808 | | DTPP0808 | | DFFF0808 |
| 100 x 080 | | DTSF1008 | DTSPF1008 | DTPP1008 | DTPF1008 | DFFF1008 |
| 100 x 100 | DTSS1010 | DTSF1010 | DTSPF1010 | DTPP1010 | DTPF1010 | DFFF1010 |
| 150 x 080 | | DTSF1508 | DTSPF1508 | | DTPF1508 | DFFF1508 |
| 150 x 100 | DTSS1510 | DTSF1510 | DTSPF1510 | DTPP1510 | DTPF1510 | DFFF1510 |
| 150 x 150 | DTSS1515 | DTSF1515 | | DTPP1515 | DTPF1515 | DFFF1515 |
| 200 x 80 | | DTSF2008 | DTSPF2008 | | DTPF2008 | DFFF2008 |
| 200 x 100 | DTSS2010 | DTSF2010 | DTSPF2010 | DTPP2010 | DTPF2010 | DFFF2010 |
| 200 x 150 | DTSS2015 | DTSF2015 | | DTPP2015 | DTPF2015 | DFFF2015 |
| 200 x 200 | DTSS2020 | DTSF2020 | | DTPP2020 | DTPF2020 | DFFF2020 |
| 225 x 80 | | DTSF2208 | DTSPF2208 | | DTPF2208 | DFFF2208 |
| 225 x 100 | DTSS2210 | DTSF2210 | DTSPF2210 | DTPP2210 | DTPF2210 | DFFF2210 |
| 225 x 150 | DTSS2215 | DTSF2215 | | DTPP2215 | DTPF2215 | DFFF2215 |
| 225 x 200 | DTSS2220 | DTSF2220 | | DTPP2220 | DTPF2220 | DFFF2220 |
| 225 x 225 | DTSS2222 | DTSF2222 | | DTPP2222 | DTPF2222 | DFFF2222 |
| 250 x 80 | | DTSF2508 | DTSPF2508 | | DTPF2508 | DFFF2508 |
| 250 x 100 | DTSS2510 | DTSF2510 | DTSPF2510 | DTPP2510 | DTPF2510 | DFFF2510 |
| 250 x 150 | DTSS2515 | DTSF2515 | | DTPP2515 | DTPF2515 | DFFF2515 |
| 250 x 200 | DTSS2520 | DTSF2520 | | DTPP2520 | DTPF2520 | DFFF2520 |
| 250 x 225 | DTSS2522 | DTSF2522 | | DTPP2522 | DTPF2522 | DFFF2522 |
| 250 x 250 | DTSS2525 | DTSF2525 | | DTPP2525 | DTPF2525 | DFFF2525 |
| 300 x 080 | | DTSF3008 | DTSPF3008 | | DTPF3008 | DFFF3008 |
| 300 x 100 | DTSS3010 | DTSF3010 | DTSPF3010 | DTPP3010 | DTPF3010 | DFFF3010 |
| 300 x 150 | DTSS3015 | DTSF3015 | | DTPP3015 | DTPF3015 | DFFF3015 |
| 300 x 200 | DTSS3020 | DTSF3020 | | DTPP3020 | DTPF3020 | DFFF3020 |
| 300 x 225 | DTSS3022 | DTSF3022 | | DTPP3022 | DTPF3022 | DFFF3022 |
| 300 x 250 | DTSS3025 | DTSF3025 | | DTPP3025 | DTPF3025 | DFFF3025 |
| 300 x 300 | DTSS3030 | DTSF3030 | | DTPP3030 | DTPF3030 | DFFF3030 |
| 375 x 80 | | DTSF3708 | DTSPF3708 | | DTPF3708 | DFFF3708 |
| 375 x 100 | DTSS3710 | DTSF3710 | DTSPF3710 | DTPP3710 | DTPF3710 | DFFF3710 |
| 375 x 150 | DTSS3715 | DTSF3715 | | DTPP3715 | DTPF3715 | DFFF3715 |
| 375 x 200 | DTSS3720 | DTSF3720 | | DTPP3720 | DTPF3720 | DFFF3720 |
| 375 x 225 | DTSS3722 | DTSF3722 | | DTPP3722 | DTPF3722 | DFFF3722 |
| 375 x 250 | DTSS3725 | DTSF3725 | | DTPP3725 | DTPF3725 | DFFF3725 |
| 375 x 300 | DTSS3730 | DTSF3730 | | DTPP3730 | DTPF3730 | DFFF3730 |
| 375 x 375 | DTSS3737 | DTSF3737 | | DTPP3737 | DTPF3737 | DFFF3737 |
| 450 x 80 | | DTSF4508 | DTSPF4508 | | DTPF4508 | DFFF4508 |
| 450 x 100 | DTSS4510 | DTSF4510 | DTSPF4510 | DTPP4510 | DTPF4510 | DFFF4510 |
| 450 x 150 | DTSS4515 | DTSF4515 | | DTPP4515 | DTPF4515 | DFFF4515 |
| 450 x 200 | DTSS4520 | DTSF4520 | | DTPP4520 | DTPF4520 | DFFF4520 |
| 450 x 225 | DTSS4522 | DTSF4522 | | DTPP4522 | DTPF4522 | DFFF4522 |
| 450 x 250 | DTSS4525 | DTSF4525 | | DTPP4525 | DTPF4525 | DFFF4525 |
| 450 x 300 | DTSS4530 | DTSF4530 | | DTPP4530 | DTPF4530 | DFFF4530 |
| 450 x 375 | DTSS4537 | DTSF4537 | | DTPP4537 | DTPF4537 | DFFF4537 |
| 450 x 450 | DTSS4545 | DTSF4545 | | DTPP4545 | DTPF4545 | DFFF4545 |



Tee

| Diameter | Socket | Soc / Flg | Soc / Sp / Flg | Spigot | Spig / Flg | Flange |
|-----------|----------|-----------|----------------|----------|------------|----------|
| 500 x 80 | | DTSF5008 | DTSPF5008 | | DTPF5008 | DFFF5008 |
| 500 x 100 | DTSS5010 | DTSF5010 | DTSPF5010 | DTPP5010 | DTPF5010 | DFFF5010 |
| 500 x 150 | DTSS5015 | DTSF5015 | | DTPP5015 | DTPF5015 | DFFF5015 |
| 500 x 200 | DTSS5020 | DTSF5020 | | DTPP5020 | DTPF5020 | DFFF5020 |
| 500 x 225 | DTSS5022 | DTSF5022 | | DTPP5022 | DTPF5022 | DFFF5022 |
| 500 x 250 | DTSS5025 | DTSF5025 | | DTPP5025 | DTPF5025 | DFFF5025 |
| 500 x 300 | DTSS5030 | DTSF5030 | | DTPP5030 | DTPF5030 | DFFF5030 |
| 500 x 450 | DTSS5045 | DTSF5045 | | DTPP5045 | DTPF5045 | DFFF5045 |
| 500 x 500 | DTSS5050 | DTSF5050 | | DTPP5050 | DTPF5050 | DFFF5050 |
| 600 x 80 | | DTSF6008 | DTSPF6008 | | DTPF6008 | DFFF6008 |
| 600 x 100 | DTSS6010 | DTSF6010 | DTSPF6010 | DTPP6010 | DTPF6010 | DFFF6010 |
| 600 x 150 | DTSS6015 | DTSF6015 | | DTPP6015 | DTPF6015 | DFFF6015 |
| 600 x 200 | DTSS6020 | DTSF6020 | | DTPP6020 | DTPF6020 | DFFF6020 |
| 600 x 225 | DTSS6022 | DTSF6022 | | DTPP6022 | DTPF6022 | DFFF6022 |
| 600 x 250 | DTSS6025 | DTSF6025 | | DTPP6025 | DTPF6025 | DFFF6025 |
| 600 x 300 | DTSS6030 | DTSF6030 | | DTPP6030 | DTPF6030 | DFFF6030 |
| 600 x 375 | DTSS6037 | DTSF6037 | | DTPP6037 | DTPF6037 | DFFF6037 |
| 600 x 450 | DTSS6045 | DTSF6045 | | DTPP6045 | DTPF6045 | DFFF6045 |
| 600 x 500 | DTSS6050 | DTSF6050 | | DTPP6050 | DTPF6050 | DFFF6050 |
| 600 x 600 | DTSS6060 | DTSF6060 | | DTPP6060 | DTPF6060 | DFFF6060 |
| 750 x 80 | | DTSF7508 | DTSPF7508 | | DTPF7508 | DFFF7510 |
| 750 x 100 | DTSS7510 | DTSF7510 | DTSPF7510 | DTPP7510 | DTPF7510 | DFFF7510 |
| 750 x 600 | DTSS7560 | DTSF7560 | | DTPP7560 | DTPF7560 | DFFF7560 |
| 750 x 750 | DTSS7575 | DTSF7575 | | DTPP7575 | DTPF7575 | DFFF7575 |



Scour Tee

| Diameter | Socket / Flange | Soc / Sp / Flg | Flange / Flange |
|-----------|-----------------|----------------|-----------------|
| 100 x 80 | DTSFS1008 | DTSPFS1008 | DFFFS1008 |
| 150 x 80 | DTSFS1508 | DTSPFS1508 | DFFFS1508 |
| 200 x 80 | DTSFS2008 | DTSPFS2008 | DFFFS2008 |
| 200 x 100 | DTSFS2010 | DTSPFS2010 | DFFFS2010 |
| 225 x 100 | DTSFS2210 | DTSPFS2210 | DFFFS2210 |
| 250 x 100 | DTSFS2510 | DTSPFS2510 | DFFFS2510 |
| 300 x 100 | DTSFS3010 | DTSPFS3010 | DFFFS3010 |
| 375 x 150 | DTSFS3715 | DTSPFS3715 | DFFFS3715 |
| 450 x 100 | DTSFS4510 | DTSPFS4510 | DFFFS4510 |
| 450 x 150 | DTSFS4515 | DTSPFS4515 | DFFFS4515 |
| 500 x 150 | DTSFS5015 | DTSPFS5015 | DFFFS5010 |
| 600 x 150 | DTSFS6015 | DTSPFS6015 | DFFFS6015 |
| 750 x 200 | DTSFS7520 | DTSPFS7520 | DFFFS7520 |



Alternate outlet sizes available.



Hydrant Riser – 80 Diameter



| Diameter | Length | Product code |
|----------|--------|--------------|
| 80 | 100 | DHR080100 |
| 80 | 150 | DHR080150 |
| 80 | 225 | DHR080225 |
| 80 | 300 | DHR080300 |
| 80 | 375 | DHR080375 |
| 80 | 450 | DHR080450 |
| 80 | 600 | DHR080600 |

Hydrant Riser – 100 Diameter



| Diameter | Length | Product code |
|----------|--------|--------------|
| 100 | 100 | DHR100100 |
| 100 | 150 | DHR100150 |
| 100 | 225 | DHR100225 |
| 100 | 300 | DHR100300 |
| 100 | 375 | DHR100375 |
| 100 | 450 | DHR100450 |
| 100 | 600 | DHR100600 |
| 100 | 900 | DHR100900 |
| 100 | 1000 | DHR101000 |

Hydrant Riser – 150 Diameter



| Diameter | Length | Product code |
|----------|--------|--------------|
| 150 | 150 | DHR150150 |
| 150 | 300 | DHR150300 |
| 150 | 375 | DHR150375 |
| 150 | 450 | DHR150450 |
| 150 | 600 | DHR150600 |
| 150 | 1000 | DHR151000 |
| 150 | 1200 | DHR151200 |

Hydrant Riser – 200 Diameter



| Diameter | Length | Product code |
|----------|--------|--------------|
| 200 | 150 | DHR200150 |
| 200 | 300 | DHR200300 |
| 200 | 375 | DHR200375 |
| 200 | 450 | DHR200450 |
| 200 | 600 | DHR200600 |
| 200 | 1000 | DHR201000 |

Thrust Connector – Flange / Socket Pipe & Weep



| Diameter | 600mm Long | 900mm Long |
|----------|--------------|--------------|
| 100 | DCSFL100600W | DCSFL100900W |
| 150 | DCSFL150600W | DCSFL150900W |
| 200 | DCSFL200600W | DCSFL200900W |
| 225 | DCSFL225600W | DCSFL225900W |
| 250 | DCSFL250600W | DCSFL250900W |
| 300 | DCSFL300600W | DCSFL300900W |

Cross



| Diameter | Socket | Spigot | Flange |
|-----------|-----------|-----------|-----------|
| 100 x 100 | DTSSC1010 | DTPPC1010 | DTFFC1010 |
| 150 x 100 | DTSSC1510 | DTPPC1510 | DTFFC1510 |
| 150 x 150 | DTSSC1515 | DTPPC1515 | DTFFC1515 |

Other sizes & configurations available on request.

Wyee



| Diameter | Socket | Spigot | Flange |
|-----------|----------|----------|----------|
| 100 x 100 | DTY1010S | DTY1010P | DTY1010F |
| 150 x 150 | DTY1515S | DTY1515P | DTY1515F |
| 200 x 200 | DTY2020S | DTY2020P | DTY2020F |
| 225 x 225 | DTY2222S | DTY2222P | DTY2222F |
| 250 x 250 | DTY2525S | DTY2525P | DTY2525F |
| 300 x 300 | DTY3030S | DTY3030P | DTY3030F |

Other sizes & configurations available on request.

Bellmouth



| Diameter | Product code |
|----------|--------------|
| 80 | DFBM080 |
| 100 | DFBM600 |
| 150 | DFBM150 |
| 200 | DFBM200 |
| 225 | DFBM225 |
| 250 | DFBM250 |
| 300 | DFBM300 |
| 375 | DFBM375 |
| 450 | DFBM450 |
| 600 | DFBM600 |
| 750 | DFBM750 |



End Cap



| Diameter | Product code |
|----------|--------------|
| 80 | DCS080 |
| 100 | DCS100 |
| 150 | DCS150 |
| 200 | DCS200 |
| 225 | DCS225 |
| 250 | DCS250 |
| 300 | DCS300 |
| 375 | DCS375 |
| 450 | DCS450 |
| 500 | DCS500 |
| 600 | DCS600 |
| 750 | DCS750 |

Blank Flange



| Diameter | Product code | 20BSP Tapping | 25BSP Tapping | 50BSP Tapping |
|----------|--------------|---------------|---------------|---------------|
| 80 | DFB080 | DFBT080020 | DFBT080025 | DFBT080050 |
| 100 | DFB100 | DFBT100020 | DFBT100025 | DFBT100050 |
| 150 | DFB150 | DFBT150020 | DFBT150025 | DFBT150050 |
| 200 | DFB200 | DFBT200020 | DFBT200025 | DFBT200050 |
| 225 | DFB225 | DFBT225020 | DFBT225025 | DFBT225050 |
| 250 | DFB250 | DFBT250020 | DFBT250025 | DFBT250050 |
| 300 | DFB300 | DFBT300020 | DFBT300025 | DFBT300050 |
| 375 | DFB375 | DFBT375020 | DFBT375025 | DFBT375050 |
| 450 | DFB450 | DFBT450020 | DFBT450025 | DFBT450050 |
| 500 | DFB500 | DFBT500020 | DFBT500025 | DFBT500050 |
| 600 | DFB600 | DFBT600020 | DFBT600025 | DFBT600050 |
| 750 | DFB750 | DFBT750020 | DFBT750025 | DFBT750050 |

Other size tapings available.

Uni-Flange (SS Bolts)



| Diameter | Product code |
|----------|--------------|
| 80 | DFU080 |
| 100 | DFU100 |
| 150 | DFU150 |
| 200 | DFU200 |
| 225 | DFU225 |
| 250 | DFU250 |
| 300 | DFU300 |
| 375 | DFU375 |
| 450 | DFU450 |
| 500 | DFU500 |
| 600 | DFU600 |
| 750 | DFU750 |



Mechanical Coupling – Long Sleeve



| Diameter | Range | Bolts | Sleeve length | Compatible pressure pipe materials | | | Prod code |
|----------|-----------|----------|---------------|------------------------------------|---------------------|--------------|-----------|
| | | | | PVC S2, DI, GRP & AC | PVC S1, ABS S1, GAL | STEEL AS1579 | |
| 080 | 88 - 103 | 3 x M16 | 176 | 80 | 80 | 80 | DGCS080 |
| 100 | 108 - 132 | 3 x M16 | 176 | 100 | 100 | 100 | DGCS100 |
| 150 | 158 - 182 | 3 x M16 | 176 | 150 | 150 | 150 | DGCS150 |
| 200 | 214 - 238 | 5 x M16 | 176 | 200 | 200 | 200 | DGCS200 |
| 225 | 242 - 269 | 5 x M16 | 176 | 225 | 225 | | DGCS225 |
| 250 | 270 - 295 | 6 x M16 | 176 | 250 | 250 | 250 | DGCS250 |
| 300 | 330 - 356 | 6 x M16 | 176 | 300 | 300 | 300 | DGCS300 |
| 375 | 400 - 429 | 8 x M16 | 216 | 375 | 375 | 400 | DGCS375 |
| 450 | 488 - 512 | 10 x M16 | 216 | 450 | | 500 | DGCS450 |
| 500 | 540 - 565 | 12 x M16 | 216 | 500 | 500 | | DGCS500 |
| 600 | 656 - 680 | 14 x M16 | 216 | 600 | | 600 | DGCS600 |
| 750 | 810 - 834 | 14 x M16 | 216 | 750 | | 750 | DGCS750 |

Mechanical Coupling – Standard Sleeve



| Diameter | Range | Bolts | Sleeve length | Compatible pressure pipe materials | | | Prod code |
|----------|-----------|---------|---------------|------------------------------------|-----|-----|-----------|
| 080 | 88 - 103 | 3 x M16 | 101 | 80 | 80 | 80 | DGCS080SB |
| 100 | 108 - 132 | 3 x M16 | 121 | 100 | 100 | 100 | DGCS100SB |
| 150 | 158 - 182 | 3 x M16 | 136 | 150 | 150 | 150 | DGCS150SB |

Mechanical Coupling (Restraint)



| Diameter | Range | PN | Prod code |
|----------|------------|----|-----------|
| 50 | 46 - 71 | 16 | PPWC050 |
| 65 | 63 - 90 | 16 | PPWC065 |
| 80 | 84 - 105 | 16 | PPWC080 |
| 100 | 104 - 132 | 16 | PPWC100 |
| 125 | 132 - 155 | 16 | PPWC125 |
| 150 | 154 - 192 | 16 | PPWC150 |
| 200 | 192 - 232 | 16 | PPWC200 |
| 225 | 230 - 268 | 16 | PPWC225 |
| 250 | 267 - 310 | 16 | PPWC250 |
| 300 | 315 - 356v | 16 | PPWC300 |
| 350 | 352 - 393 | 10 | PPWC350 |
| 400 | 392 - 433 | 10 | PPWC400 |

Mechanical Coupling - Stepped (Restraint)



| Diameter | Range 1 | Range 2 | PN | Product code |
|-----------|-----------|-----------|----|--------------|
| 50 - 65 | 46 - 71 | 63-90 | 16 | PPWCR065050 |
| 65 - 80 | 63 - 90 | 84 - 105 | 16 | PPWCR080065 |
| 80 - 100 | 84 - 105 | 104 - 132 | 16 | PPWCR100080 |
| 100 - 125 | 105 - 132 | 132 - 155 | 16 | PPWCR125100 |
| 100 - 150 | 104 - 132 | 154 - 192 | 16 | PPWCR150100 |
| 125 - 150 | 132 - 155 | 154 - 192 | 16 | PPWCR150125 |
| 150 - 200 | 154 - 192 | 192 - 232 | 16 | PPWCR200150 |
| 200 - 225 | 192 - 232 | 230 - 232 | 16 | PPWCR225200 |
| 225 - 250 | 230 - 268 | 267 - 310 | 16 | PPWCR250225 |
| 250 - 300 | 267 - 310 | 315 - 356 | 10 | PPWCR300250 |
| 300 - 350 | 315 - 356 | 352 - 393 | 10 | PPWCR350300 |
| 350 - 400 | 352 - 393 | 392 - 433 | 10 | PPWCR400350 |

Mechanical Flange Adaptor (Restraint)



| Diameter | Range | PN | Holes | Product code |
|----------|-----------|----|-------|--------------|
| 50 | 46 - 71 | 16 | 4 | PPWF050 |
| 65 | 63 - 90 | 16 | 4 | PPWF065 |
| 80 | 84 - 105 | 16 | 8 | PPWF080 |
| 100 | 104 - 132 | 16 | 8 | PPWF100 |
| 150 | 154 - 192 | 16 | 8 | PPWF150 |
| 200 | 192 - 232 | 16 | 8 | PPWF200 |
| 250 | 267 - 310 | 16 | 8 | PPWF250 |
| 300 | 315 - 356 | 16 | 12 | PPWF300 |

Mechanical End Cap (Restraint)



| Diameter | Range | PN | Product code |
|----------|-----------|----|--------------|
| 50 | 46 - 71 | 16 | PPWE050 |
| 65 | 63 - 90 | 16 | PPWE065 |
| 80 | 84 - 105 | 16 | PPWE080 |
| 100 | 104 - 132 | 16 | PPWE100 |
| 125 | 132 - 155 | 16 | PPWE125 |
| 150 | 154 - 192 | 16 | PPWE150 |
| 200 | 192 - 232 | 16 | PPWE200 |
| 225 | 230 - 268 | 16 | PPWE225 |
| 250 | 267 - 310 | 16 | PPWE250 |
| 300 | 315 - 356 | 16 | PPWE300 |
| 400 | 392 - 433 | 10 | PPWE400 |



Hydrant Bend 80 Outlet (Restraint)



| Diameter | Range | PN | Product code |
|----------|-----------|----|--------------|
| 50 | 46 - 72 | 16 | PPWH050 |
| 65 | 63 - 90 | 16 | PPWH065 |
| 80 | 84 - 105 | 16 | PPWH080 |
| 100 | 104 - 136 | 16 | PPWH100 |
| 125 | 132 - 155 | 16 | PPWH125 |
| 150 | 154 - 192 | 16 | PPWH150 |

Gate Valves

Gate Valve Resilient Seat – Flanged PN16



| Diameter | Anti-clockwise close | Clockwise close |
|----------|----------------------|-----------------|
| 50 | VGFF050 | VGFF050C |
| 65 | VGFF065 | VGFF065C |
| 80 | VGFF080 | VGFF080C |
| 100 | VGFF100 | VGFF100C |
| 150 | VGFF150 | VGFF150C |
| 200 | VGFF200 | VGFF200C |
| 225 | VGFF225 | VGFF225C |
| 250 | VGFF250 | VGFF250C |
| 300 | VGFF300 | VGFF300C |
| 375 | VGFF375 | VGFF375C |
| 450 | VGFF450 | VGFF450C |
| 500 | VGFF500 | VGFF500C |
| 600 | VGFF600 | VGFF600C |
| 750 | VGFF750 | VGFF750C |

Gearboxes and Actuators available to suit all valves. Integral bypass valves also available.

Gate Valve Metal Seat – Flange PN35



| Diameter | Anti-clockwise close | Clockwise close |
|----------|----------------------|-----------------|
| 80 | VGFF080F35 | VGFF080F35C |
| 100 | VGFF100F35 | VGFF100F35C |
| 150 | VGFF150F35 | VGFF150F35C |
| 200 | VGFF200F35 | VGFF200F35C |
| 225 | VGFF225F35 | VGFF225F35C |
| 250 | VGFF250F35 | VGFF250F35C |
| 300 | VGFF300F35 | VGFF300F35C |
| 375 | VGFF375F35 | VGFF375F35C |
| 450 | VGFF450F35 | VGFF450F35C |
| 500 | VGFF500F35 | VGFF500F35C |
| 600 | VGFF600F35 | VGFF600F35C |
| 750 | VGFF750F35 | VGFF750F35C |

AS4087 PN16 and AS2129 T / E models also available, Integral Bypass models available.
Larger diameter valves also available.



Valve Resilient Seat – Socket PN16



| Diameter | Anti-clockwise close | Clockwise close |
|----------|----------------------|-----------------|
| 80 | VGSS080 | VGSS080C |
| 100 | VGSS100 | VGSS100C |
| 150 | VGSS150 | VGSS150C |
| 200 | VGSS200 | VGSS200C |
| 225 | VGSS225 | VGSS225C |
| 250 | VGSS250 | VGSS250C |
| 300 | VGSS300 | VGSS300C |
| 375 | VGSS375 | VGSS375C |

Valve Resilient Seat – Spigot PN16



| Diameter | Anti-clockwise close | Clockwise close |
|----------|----------------------|-----------------|
| 100 | VGPP100 | VGPP100C |
| 150 | VGPP150 | VGPP150C |
| 200 | VGPP200 | VGPP200C |

Gate Valve Resilient Seat – Socket / Flange PN16



| Diameter | Anti-clockwise close | Clockwise close |
|----------|----------------------|-----------------|
| 80 | VGSF080 | VGSF080C |
| 100 | VGSF100 | VGSF100C |
| 150 | VGSF150 | VGSF150C |

Gate Valve Resilient Seat – Flange PN25



| Diameter | Anti-clockwise close | Clockwise close |
|----------|----------------------|-----------------|
| 80 | VGFF080F25 | VGFF080F25C |
| 100 | VGFF100F25 | VGFF100F25C |
| 150 | VGFF150F25 | VGFF150F25C |

Gate Valve Resilient Seat – Restrained PN16



| Diameter | Anti-clockwise close | Clockwise close |
|----------|----------------------|-----------------|
| 125 | VGGG125 | VGGG125C |
| 180 | VGGG180 | VGGG180C |



Valve Extension Spindle



| Diameter | Gal | Cast | 316SS |
|----------|----------|-----------|-----------|
| 100 | VAES0100 | VAESC0100 | VAESS0100 |
| 150 | VAES0150 | VAESC0150 | VAESS0150 |
| 225 | VAES0225 | VAESC0225 | VAESS0225 |
| 300 | VAES0300 | VAESC0300 | VAESS0300 |
| 375 | VAES0375 | VAESC0375 | VAESS0375 |
| 450 | VAES0450 | VAESC0450 | VAESS0450 |
| 600 | VAES0600 | VAESC0600 | VAESS0600 |
| 750 | VAES0750 | VAESC0750 | VAESS0750 |
| 900 | VAES0900 | VAESC0900 | VAESS0900 |
| 1000 | VAES1000 | VAESC1000 | VAESS1000 |
| 1200 | VAES1200 | VAESC1200 | VAESS1200 |
| 1500 | VAES1500 | VAESC1500 | VAESS1500 |

Longer and custom length spindles and wall brackets are available.

Valve / Fitting Restraint Strap – 316SS



| Diameter | Product code |
|----------|--------------|
| 80 | VRS080 |
| 100 | VRS100 |
| 150 | VRS150 |
| 200 | VRS200 |
| 225 | VRS225 |
| 250 | VRS250 |
| 300 | VRS300 |
| 375 | VRS375 |
| 450 | VRS450 |
| 500 | VRS500 |
| 600 | VRS600 |

Check out our commonly used accessories starting on page 24.





Swing Check Valve



| Diameter | Free Acting PN16 | Free Acting PN35 |
|----------|------------------|------------------|
| 80 | VCFF080 | VCFF080F35 |
| 100 | VCFF100 | VCFF100F35 |
| 150 | VCFF150 | VCFF150F35 |
| 200 | VCFF200 | VCFF200F35 |
| 225 | VCFF225 | VCFF225F35 |
| 250 | VCFF250 | VCFF250F35 |
| 300 | VCFF300 | VCFF300F35 |
| 375 | VCFF375 | VCFF375F35 |
| 450 | VCFF450 | VCFF450F35 |
| 500 | VCFF500 | VCFF500F35 |
| 600 | VCFF600 | VCFF600F35 |
| 750 | VCFF750 | |

Larger diameter valves are also available. Valves are available with Lever Arm & Counterweight, Position Indicators & Guards. Valves can be manufactured to suit client requirements including modified flange drilling to ANSI, BSEN1092 & others.

Hydrants

Spring Hydrant



| Diameter | Type | Standard | Recycled |
|----------|-----------------|----------|----------|
| 80 | Spring | VH080 | VH080L |
| 80 | Swab | VH080S | VH080SL |
| 100 | Spring | VH100 | VH100L |
| 100 | Swab | VH100S | VH100SL |
| 100 | Slotted 80 –100 | VH0810 | VH0810P |

Swab hydrants feature removable internal components that provide full bore access for scouring swabs.

Hydrant / Air Valve Isolator



| Diameter | ACC | CC |
|----------|--------|---------|
| 80 | VHC080 | VHC080C |
| 100 | VHC100 | VHC100C |



Tapping Band Blue – PN16 (Suit PVC S2, DI & AC)



| Diameter | 20 | 25 | 32 | 40 | 50 |
|----------|------------|------------|------------|------------|------------|
| 100 | TCN210020B | TCN210025B | TCN210032B | TCN210040B | TCN210050B |
| 150 | TCN215020B | TCN215025B | TCN215032B | TCN215040B | TCN215050B |
| 200 | TCN220020B | TCN220025B | TCN220032B | TCN220040B | TCN220050B |
| 225 | TCN222520B | TCN222525B | TCN222532B | TCN222540B | TCN222550B |
| 250 | TCN225020B | TCN225025B | TCN225032B | TCN225040B | TCN225050B |
| 300 | TCN230020B | TCN230025B | TCN230032B | TCN230040B | TCN230050B |

Tapping Band Lilac – PN16 (Suit PVC S2, DI & AC)



| Diameter | 20 | 25 | 32 | 40 | 50 |
|----------|------------|------------|------------|------------|------------|
| 100 | TCN210020L | TCN210025L | TCN210032L | TCN210040L | TCN210050L |
| 150 | TCN215020L | TCN215025L | TCN215032L | TCN215040L | TCN215050L |
| 200 | TCN220020L | TCN220025L | TCN220032L | TCN220040L | TCN220050L |
| 225 | TCN222520L | TCN222525L | TCN222532L | TCN222540L | TCN222550L |
| 250 | TCN225020L | TCN225025L | TCN225032L | TCN225040L | TCN225050L |
| 300 | TCN230020L | TCN230025L | TCN230032L | TCN230040L | TCN230050L |

Tapping Band White – PN16 (Suit PVC S1)



| Diameter | 20 | 25 | 32 | 40 | 50 |
|----------|-----------|-----------|-----------|-----------|-----------|
| 40 | TCN104020 | TCN104025 | | | |
| 50 | TCN105020 | TCN105025 | | | |
| 80 | TCN108020 | TCN108025 | TCN108032 | TCN108040 | TCN108050 |
| 100 | TCN110020 | TCN110025 | TCN110032 | TCN110040 | TCN110050 |
| 150 | TCN115020 | TCN115025 | TCN115032 | TCN115040 | TCN115050 |
| 200 | TCN120020 | TCN120025 | TCN120032 | TCN120040 | TCN120050 |

Tapping Band Gunmetal PN16 (Suit PVC S2, DI & AC)



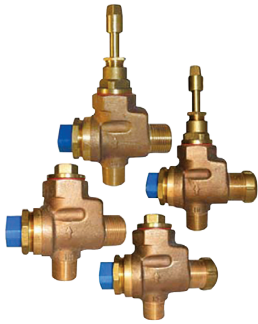
| Diameter | 20 | 25 | 32 | 40 | 50 |
|----------|------------|------------|------------|------------|------------|
| 100 | TCBAC10020 | TCBAC10025 | TCBAC10032 | TCBAC10040 | TCBAC10050 |
| 150 | TCBAC15020 | TCBAC15025 | TCBAC15032 | TCBAC15040 | TCBAC15050 |
| 200 | TCBAC20020 | TCBAC25025 | TCBAC32032 | TCBAC40040 | TCBAC50050 |
| 225 | TCBAC22520 | TCBAC22525 | TCBAC22532 | TCBAC22540 | TCBAC22550 |
| 250 | TCBAC25020 | TCBAC25025 | TCBAC25032 | TCBAC25040 | TCBAC25050 |
| 300 | TCBAC30020 | TCBAC30025 | TCBAC30032 | TCBAC30040 | TCBAC30050 |
| 375 | TCBAC37520 | TCBAC37525 | TCBAC37532 | TCBAC37540 | TCBAC37550 |
| 450 | TCBAC45020 | TCBAC45025 | TCBAC45032 | TCBAC45040 | TCBAC45050 |

Tapping Band Gunmetal PN16 (Suit PVC S1)



| Diameter | 20 | 25 | 32 | 40 | 50 |
|----------|-----------|-----------|-----------|-----------|-----------|
| 40 | TCBP04020 | TCBP04025 | | | |
| 50 | TCBP05020 | TCBP0525 | TCBP05032 | TCBP05040 | |
| 65 | TCBP06520 | TCBP06525 | TCBP06532 | TCBP06540 | |
| 80 | TCBP08020 | TCBP08025 | TCBP08032 | TCBP08040 | TCBP08050 |
| 100 | TCBP10020 | TCBP10025 | TCBP10032 | TCBP10040 | TCBP10050 |
| 125 | TCBP12520 | TCBP12525 | TCBP12532 | TCBP12540 | TCBP12550 |
| 150 | TCBP15020 | TCBP15025 | TCBP15032 | TCBP15040 | TCBP15050 |
| 200 | TCBP20020 | TCBP25025 | TCBP32032 | TCBP40040 | TCBP50050 |
| 225 | TCBP22520 | TCBP22525 | TCBP22532 | TCBP22540 | TCBP22550 |
| 250 | TCBP25020 | TCBP25025 | TCBP25032 | TCBP25040 | TCBP25050 |
| 300 | TCBP30020 | TCBP30025 | TCBP30032 | TCBP30040 | TCBP30050 |
| 375 | TCBP37520 | TCBP37525 | TCBP37532 | TCBP37540 | TCBP37550 |

Tapping Under Pressure Ferrule



| Diameter | Bonnet MI | Bonnet Poly | Capped MI | Capped Poly |
|----------|-----------|-------------|-----------|-------------|
| 20 | ABFTUP20 | ABFTUP20P | ABFTUP20C | ABFTUP20CP |
| 25 | ABFTUP25 | ABFTUP25P | ABFTUP25C | ABFTUP25CP |
| 32 | ABFTUP32 | ABFTUP32P | ABFTUP32C | ABFTUP32CP |
| 40 | ABFTUP40 | ABFTUP40P | ABFTUP40C | ABFTUP40CP |
| 50 | ABFTUP50 | ABFTUP50P | ABFTUP50C | ABFTUP50CP |

Standard Ferrule



| Diameter | MI | Poly |
|----------|-------|--------|
| 20 | ABF20 | ABF20P |
| 25 | ABF25 | ABF25P |
| 32 | ABF32 | ABF32P |
| 40 | ABF40 | ABF40P |
| 50 | ABF50 | ABF50P |

Ferrule Bend



| Diameter | MI | FI | Soldered | Compression |
|----------|---------|---------|----------|-------------|
| 20 | ABFB20M | ABFB20F | ABFB20S | ABFB20 |
| 25 | ABFB25M | ABFB25F | ABFB25S | ABFB25 |
| 32 | ABFB32M | ABFB32F | ABFB32S | ABFB32 |
| 40 | ABFB40M | ABFB40F | ABFB40S | ABFB40 |
| 50 | ABFB50M | ABFB50F | ABFB50S | ABFB50 |



Ferrule Spindle

| Diameter | Product code |
|----------|--------------|
| 200 | ABFS200 |
| 300 | ABFS300 |
| 375 | ABFS375 |
| 450 | ABFS450 |
| 600 | ABFS600 |
| 750 | ABFS750 |
| 900 | ABFS900 |



Ball Valve

| Diameter | Plain | | Lilac | |
|----------|----------|----------|-----------|-----------|
| | MI / FI | FI / FI | MI / FI | FI / FI |
| 20 | ABBV20MF | ABBV20FF | ABBV20MFL | ABBV20FFL |
| 25 | ABBV25MF | ABBV25FF | ABBV25MFL | ABBV25FFL |



Ball Valve – Poly Connection

| Diameter | Plain | | Lilac | |
|----------|-----------|-----------|------------|------------|
| | MI / Poly | FI / Poly | MI / Poly | FI / Poly |
| 20 | ABBV20MFP | ABBV20FFP | ABBV20MFLP | ABBV20FFLP |



Right Angle Lockable

| Diameter | Plain | | Lilac | |
|----------|-----------|-----------|------------|------------|
| | MI / FI | FI / FI | MI / FI | FI / FI |
| 20 | ABBV20RMF | ABBV20RFF | ABBV20RMFL | ABBV20RFFL |



Cast Iron Cover Box

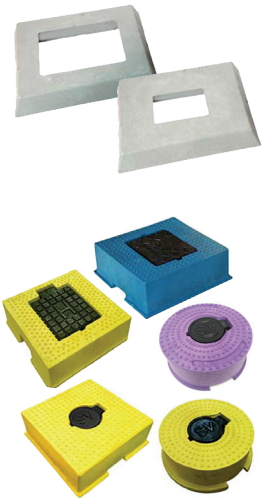
| Product | Hydrant | Stop Valve | Hydrant Recycled | Stop Valve Recycled | Primary Market |
|--------------------|---------|------------|------------------|---------------------|----------------|
| Asphalt – Hinged | ACCHHDA | ACCSHDA | ACCHHDAR | ACCSHDAR | NSW |
| Concrete – Drop In | ACCHHDC | ACCSHDC | ACCHHDCR | ACCSHDCR | NSW |
| Standard – Hinged | ACCHNSW | ACCSVB | | | NSW |

| Product | Product Code | Primary Market |
|-------------------------|--------------|----------------|
| Hydrant Cover & Lid | ACCHYDCI | VIC |
| Valve Cover & Lid | ACCVALVE | VIC |
| Path Box c/w Hinged Lid | ACCFITZ | VIC |

| Product | Product Code | Primary Market |
|-----------------|--------------|----------------|
| Sv Lid Drop In | ACCSVLID | QLD |
| Fh Lid Drop In | ACCFHLID | QLD |
| W Lid Drop In | ACCWLID | QLD |
| Valve Box | ACCVLVBXQ | QLD |
| Sv Lid Drop In | ACCSVLID | QLD |
| Meter Box & Lid | AXPMBQ | QLD |

Surround

| Type | Hydrant | Valve |
|------------------|---------|--------|
| Recycled Plastic | AXHSSG | AXYSSG |
| Concrete | AXHSND | AXVSND |



Recycled Plastic Cover Boxes

| Type | Yellow | Grey | Lilac | White | Blue |
|--------------------------|--------|--------|--------|--------|--------|
| Hydrant Hinged Square | ACPHSY | ACPHSG | ACPHSL | ACPHSW | ACPHSB |
| Stop Valve Hinged Round | ACPSRY | ACPSRG | ACPSRL | ACPSRW | ACPSRB |
| Stop Valve Hinged Square | ACPSY | ACPSSG | ACPSSL | ACPSSW | ACPSSB |

| Type | Product Code | Primary Market |
|-----------------------------------|--------------|----------------|
| Lamp Hole Cover & Frame | ACCLHC | NSW |
| Lamp Hole Cover Surround Concrete | ACCLHCS | NSW |
| Water Box Hinged Lid | ACCWB | NSW |
| Gas Box Hinged Lid | ACCGB | NSW |
| Subsoil Box Hinged Lid | ACCSSB | NSW |





| Type | Product Code | Primary Market |
|----------------------------------|--------------|----------------|
| Valve Cover Square (Grey) | AZVSGREY | VIC |
| L Type Hydrant Potable | ACLTYPE | VIC |
| L Type Hydrant Recycled | ACLTYPEL | VIC |
| L Type Concrete Hydrant Surround | AXLSND | VIC |
| Latch Pin - (L Type) | AXLP | VIC |
| L Type Hydrant Key | ACLTYPEK | VIC |



| Type | Product Code | Primary Market |
|-------------------------------|--------------|----------------|
| Sv/Hyd Box Grey Drop In Lid | ACCSURPGRY | QLD |
| Sv/Hyd Box Blue Drop In Lid | ACCSURPBLU | QLD |
| Sv/Hyd Box White Drop In Lid | ACCSURPWHT | QLD |
| Sv/Hyd Box Yellow Drop In Lid | ACCSURPYEL | QLD |
| Sv/Hyd Box Ci Drop In Lid | ACCHYDBOXQ | QLD |



Base Plate / Top Flange

Product Code: ACCBASE



PVC Shroud 225 x 300

Product Code: ACPSHROUD



Shroud Pipe Joiner

Product Code: ACCJOINER



Centralising Disc

Product Code: ACCDISC



Meter Box

| Type | Overall Top Size | Height | Product Code |
|-----------|------------------|--------|--------------|
| Cast Iron | 430 x 300 | 90 | ACCCHCB |



Flushing Point Cover

| Type | Product Code | Primary Market |
|---|--------------|----------------|
| Flushing Point Assembly Cover | AXPFMB | VIC |
| Flushing Point Assembly Cover Recycled (Purple) | AXPFML | VIC |



Plastic Cover - Hydrant / Valve

| Type | Product Code | Primary Market |
|---------------|--------------|----------------|
| Hydrant Cover | AXPHWCI | VIC |

Other lid options available upon request.

Underground Marker Tape – 100mm x 250m



| Type | Detectable | Non Detectable |
|-------------------------------------|------------|----------------|
| Water Green | ATDW | ATNDW |
| Water Blue | ATDWB | ATNDWB |
| Recycled Water - Do Not Drink Lilac | ATDR | ATNDR |
| Fire Red | ATDF | ATNDF |
| Sewer Beige | ATDS | ATNDS |
| Gas Yellow | ATDG | ATNDG |
| Stormwater Blue | ATDSW | ATNSW |
| Electricity Orange | ATDE | ATNDE |
| Communications White | ATDC | ATNDC |
| Irrigation Blue | ATDI | ATNDI |
| Sewer Junction | | ATNSJ |

Other colour and marking options available.

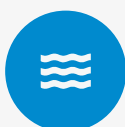


Trace Wire

| Type | Product Code |
|-----------------------------|--------------|
| Trace Wire 316ss 0.7mm 100m | ATWSS100 |
| Trace Wire 316ss 3.2mm 305m | ATWSS305 |

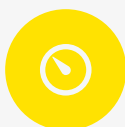
Our Markets

At Clover Pipelines, we provide innovative solutions that are carefully tailored to meet the needs of your project. With an impeccable track record of delivering in civil, commercial and industrial applications, we're Australia's trusted pipe suppliers.



WATER SUPPLY

We proudly supply the widest range of pipe and fitting packages, all manufactured to the highest Australian Standards as required by commercial water projects.



GAS SUPPLY

We invest in committed specialists and advanced products, delivering optimum pipeline design, installation and cost-benefit analysis specific to the natural and coal seam gas industries.



ELECTRICAL

Our PVC & Polyethylene conduit and fittings systems continue to prove themselves in some of Australia's largest and toughest projects.



WASTE WATER

Our pipeline package offerings include a superior range of products and solutions for open trench and microtunnel applications up to DN4000.

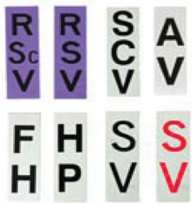


Reflective Road Marker



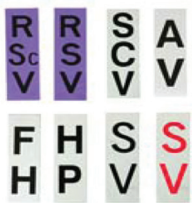
| Type | Product Code |
|-------------------------------|--------------|
| Reflective Road Marker Blue | AMRMB |
| Reflective Road Marker Yellow | AMRMY |
| Adhesive Patch | AMRPM |
| Thermo Arrow White | AMRTAWS |
| Thermo Arrow Yellow | AMRTAYS |

Marker Plate



| Type | Product Code |
|-----------------------------------|--------------|
| Marker Plate Red / White - HP | AMMARKERHP |
| Marker Plate Red / White - HR | AMMARKERHR |
| Marker Plate Red / White - FH | AMMARKERFH |
| Marker Plate Red / White - SV | AMMARKERSV |
| Marker Plate Red / White - SCV | AMMARKERSCV |
| Marker Plate Red / White - AV | AMMARKERAV |
| Marker Plate Green / White - H | AMMARKERH |
| Marker Plate Black / Lilac - RHP | AMMARKERRHP |
| Marker Plate Black / Lilac - RHR | AMMARKERRHR |
| Marker Plate Black / Lilac - RSV | AMMARKERRSV |
| Marker Plate Black / Lilac - RSCV | AMMARKERRSCV |
| Marker Plate Black / Lilac - RAV | AMMARKERRAV |

Sticker



| Type | Product Code |
|------------------------------|---------------|
| Sticker Red / White - HP | AMSTICKERHP |
| Sticker Red / White - HR | AMSTICKERHR |
| Sticker Red / White - FH | AMSTICKERFH |
| Sticker Red / White - SV | AMSTICKERSV |
| Sticker Red / White - SCV | AMSTICKERSCV |
| Sticker Red / White - AV | AMSTICKERAV |
| Sticker Green / White - H | AMSTICKERH |
| Sticker Black / Lilac - RHP | AMSTICKERRHP |
| Sticker Black / Lilac - RHR | AMSTICKERRHR |
| Sticker Black / Lilac - RSV | AMSTICKERRSV |
| Sticker Black / Lilac - RSCV | AMSTICKERRSCV |
| Sticker Black / Lilac - RAV | AMSTICKERRAV |

Custom prints and other configurations available.

Kerb Marker (Universal)



Material: Brass or Stainless Steel
 Options: W, S, E, C, SD, T, DV, V, SCV, HV, AV, BP, XC, WO

Pipe Sleeving



| Type | Blue | Lilac | Cream |
|---------------------------------|--------------|--------------|--------------|
| 100 Pipe Sleeve Roll (30) | ADB100 | ADL100 | ADC100 |
| 150 Pipe Sleeve Roll (25) | ADB150 | ADL150 | ADC150 |
| 200 Pipe Sleeve Roll (20) | ADB200 | ADL200 | ADC200 |
| 225 / 250 Pipe Sleeve Roll (16) | ADB225 / 250 | ADL225 / 250 | ADC225 / 250 |
| 300 Pipe Sleeve Roll (15) | ADB300 | ADL300 | ADC300 |
| 375 Pipe Sleeve Roll (12) | ADB375 | ADL375 | ADC375 |
| 450 / 500 Pipe Sleeve (10) | ADB450 / 500 | ADL450 / 500 | ADC450 / 500 |
| 600 Pipe Sleeve Roll (8) | ADB600 | ADL600 | ADC600 |
| 750 Pipe Sleeve Roll (7) | ADB750 | ADL750 | ADC750 |

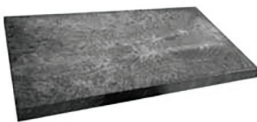


Petrolatum Tape 150mm x10m

Product Code: ATP150

Mastic & Overwrap also available

Installation & Testing



Block

| Timber | | Plastic | |
|-----------|-----------|-----------|-----------|
| 300 x 300 | 300 x 600 | 300 x 300 | 300 x 600 |
| ARBLOCK | ARBLOCKL | ARPTB | ARPTBL |



Wedge

| Timber | Plastic |
|---------|---------|
| ARWEDGE | ARPW |



Pipe Swab

| Diameter | Product Code |
|----------|--------------|
| 100 | ASWABO100 |
| 150 | ASWABO150 |
| 200 | ASWABO200 |
| 225 | ASWABO225 |
| 250 | ASWABO250 |
| 300 | ASWABO300 |
| 375 | ASWABO375 |
| 450 | ASWABO450 |

Other sizes available on request.

Technical Data Sheets

At Clover we're committed to quality products and services. Our online technical data sheets provide insight into the features and applications of a range of Clover products, so you can get a better understanding of the best in the business.



Gate Valve Resilient Seat

Clover resilient seated gate valves comply with the standard AS 2638.2, for use in above and below ground potable, non-potable and wastewater applications.

- › Full bore design eliminates potential debris build up
- › Stainless steel spindle for excellent corrosion resistance
- › Isolated stainless steel fasteners
- › View the product page for more technical information



Drainflex™ Subsoil Pipe

Clover Drainflex™ subsoil pipe is manufactured to AS2439.1 from premium quality HDPE material, for a wide range of commercial and domestic below-ground drainage applications.

- › Durable, flexible, strong and corrosion resistant
- › High flow capacity
- › Available slotted or unslotted
- › View the product page for more technical information



Spring Hydrant

Clover spring hydrants comply with the standard AS/NZS 3952, making them ideal for use in above and below ground potable and non-potable water applications.

- › High strength and impact resistant body
- › Isolated stainless steel fasteners for corrosion protection
- › Thermally bonded polymeric coating
- › View the product page for more technical information

For more information on other Clover products, or to view and download product data sheets, visit: www.cloverpipe.com.au





Full Face Gasket Kit

| Diameter | PN16 | | PN16 PE to DI | PN35 | |
|----------|---------|---------|---------------|----------|----------|
| | 316SS | Gal | 316SS | 316SS | Gal |
| 80 | AGK080S | AGK080G | AGKP080S | AGKF080S | AGKF080G |
| 100 | AGK100S | AGK100G | AGKP100S | AGKF100S | AGKF100G |
| 150 | AGK150S | AGK150G | AGKP150S | AGKF150S | AGKF150G |
| 200 | AGK200S | AGK200G | AGKP200S | AGKF200S | AGKF200G |
| 225 | AGK225S | AGK225G | AGKP225S | AGKF225S | AGKF225G |
| 250 | AGK250S | AGK250G | AGKP250S | AGKF250S | AGKF250G |
| 300 | AGK300S | AGK300G | AGKP300S | AGKF300S | AGKF300G |
| 375 | AGK375S | AGK375G | AGKP375S | AGKF375S | AGKF375G |
| 450 | AGK450S | AGK450G | AGKP450S | AGKF450S | AGKF450G |
| 500 | AGK500S | AGK500G | AGKP500S | AGKF500S | AGKF500G |
| 600 | AGK600S | AGK600G | AGKP600S | AGKF600S | AGKF600G |
| 750 | AGK750S | AGK750G | AGKP750S | AGKF750S | AGKF750G |

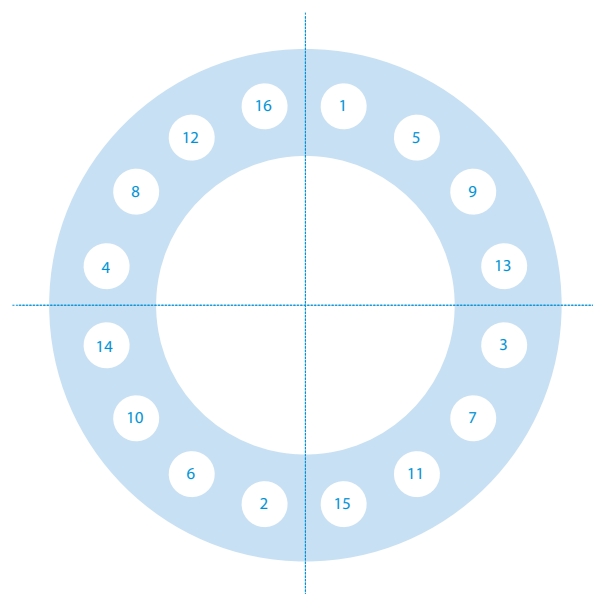
Ductile Iron Pipe

(Refer to WSAA WSA 109 for further details)

1. Ensure flanges and bolts are clean and in good working condition.
2. Apply lubricant to bolts and nut load bearing face (eg. molybdenum disulphide)
3. Insert bolts 1 to 4 into one flange and position gasket on bolts.
4. Align flanges and support as required.
5. Offer the adjoining flange to bolts and hand tighten nuts.
6. Insert remaining bolts and hand tighten nuts.
7. Determine required Bolt Tension and Tightening Torque using PN16 or PN35 table below.
8. Using star pattern sequence shown, tighten nuts as follows:
 - › Tighten Nuts to 30% of estimated torque then,
 - › Tighten Nuts to 60% of estimated torque then,
 - › Tighten Nuts to 100% of estimated torque
9. Final pass – tighten all nuts to 100% of estimated torque in a clockwise direction.

Estimated Torque Values

- › The estimated torque values apply to AS / NZS2280 ductile iron flanges drilled to AS4087 PN16 Fig B5 and PN35 Fig B6 only.
- › “Lightly Oiled” refers to the application of a good quality lubricating oil. This is the usual as-received condition.
- › “Well Lubricated” refers to the application of molybdenum disulphide grease or equivalent anti-seize compound.
- › The estimated torque values are based on the coefficients of friction (μ) indicated. When other coefficients apply, alternative torque values need to be calculated.
- › Star Pattern Tightening sequence (Diagram 01).



(Diagram 01)

PN16 AS4087 – Estimated Torque

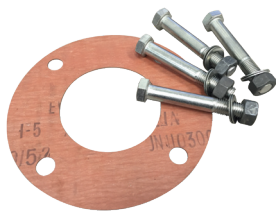


| Diameter | Bolt Size | Bolt Tension (kN) | Estimated Torque (Nm) | |
|----------|-----------|-------------------|-------------------------------|---------------------------------|
| | | | Lightly Oiled $\mu = 0.22$ | Well Lubricated $\mu = 0.15$ |
| 80 | M16 | 16 | 60 | 40 |
| 100 | M16 | 22 | 80 | 55 |
| 150 | M16 | 17 | 60 | 40 |
| 200 | M16 | 22 | 80 | 55 |
| 225 | M16 | 24 | 85 | 60 |
| 250 | M20 | 35 | 155 | 105 |
| 300 | M20 | 28 | 125 | 85 |
| 375 | M24 | 42 | 220 | 150 |
| 450 | M24 | 53 | 280 | 190 |
| 500 | M24 | 52 | 275 | 185 |
| 600 | M27 | 67 | 400 | 270 |
| 750 | M30 | 80 | 530 | 360 |

Applies:

- › PN 16 AS4087 Flanges Fig B5
- › Galv Gr 4.6 or SS Gr 316 Class 50 Bolts
- › EPDM Rubber Gasket 3mm

PN35 AS4087 – Estimated Torque



| Diameter | Bolt Size | Bolt Tension (kN) | Estimated Torque (Nm) | |
|----------|-----------|-------------------|-------------------------------|---------------------------------|
| | | | Lightly Oiled $\mu = 0.22$ | Well Lubricated $\mu = 0.15$ |
| 80 | M16 | 41 | 140 | 100 |
| 100 | M16 | 52 | 180 | 130 |
| 150 | M20 | 66 | 290 | 200 |
| 200 | M20 | 93 | 410 | 280 |
| 225 | M24 | 108 | 570 | 390 |
| 250 | M24 | 118 | 620 | 430 |
| 300 | M24 | 110 | 580 | 400 |
| 375 | M27 | 141 | 840 | 570 |
| 450 | M30 | 150 | 990 | 680 |
| 500 | M30 | 156 | 1030 | 700 |
| 600 | M33 | 195 | 1420 | 970 |
| 750 | M33 | 230 | 1670 | 1140 |

Applies:

- › PN 35 AS4087 Flanges Fig B6
- › Galv Gr 8.8 or SS Gr 316 Class 80 Studs
- › Fibre Gasket Non-Asbestos 1.5mm



Pipe Outside Diameters

| Pipe Material | Std | Nominal Size (DN) | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--------|-------------------|----|-----|---------|---------|-----|---------|-----|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 80 | 90 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 300 | 350 | 375 | 400 | 450 | 500 | 525 | 550 | 575 | 600 | 675 | 700 | 750 | 800 | 900 |
| Pressure Pipes | | | | | | | | | | | | | | | | | | | | | | | | | |
| oPVC Series 2 | AS4441 | | | 122 | | 177 | | 232 | 259 | 286 | 345 | | 426 | | 507 | 560 | | | | 667 | | | | | |
| mPVC Series 2 | AS4765 | | | 122 | | 177 | | 232 | 259 | 286 | 345 | | 426 | | 507 | 560 | | | | 667 | | | | | |
| uPVC Series 2 | AS1477 | | | 122 | | 177 | | 232 | 259 | 286 | 345 | | 426 | | 507 | 560 | | | | 667 | | | | | |
| GRP | AS3571 | | | | | | | | | | | 345 | 399 | 426 | 453 | 507 | 560 | 587 | | 667 | 747 | | 826 | | 924 |
| Ductile Iron | AS2280 | 96 | | 122 | | 177 | | 232 | 259 | 286 | 345 | | 426 | | 507 | 560 | | | | 667 | | | 826 | | |
| Cast Iron Cl B | AS1724 | | | 122 | | 177 | | 232 | 259 | 286 | 334 | | 413 | | 492 | 545 | | | | 650 | | | | | |
| Cast Iron Cl C | AS2544 | 96 | | 122 | 149 | 177 | 203 | 232 | 259 | 286 | 345 | | 426 | | 507 | 560 | | | | 667 | | | 826 | | |
| AC Class CD | AS1711 | 96 | | 122 | | 177 | | 232 | 259 | 286 | 345 | | 426 | | 507 | | 587 | | | 667 | 747 | | 826 | | |
| AC Class AB | AS1711 | 96 | | 122 | | 177 | | 232 | 259 | 286 | 334 | | 413 | | 492 | | 572 | | | 650 | | | | | |
| mPVC Series 1 | AS4765 | | | 114 | 140 | 160 | 200 | 225 | 250 | 280 | 315 | | 400 | | 500 | 560 | | | | 630 | | | | | |
| uPVC Series 1 | AS1477 | 89 | | 114 | 140 | 160 | 200 | 225 | 250 | 280 | 315 | 355 | 400 | 450 | 500 | 560 | | | | 630 | | | | | |
| Mild Steel | AS1579 | | | 114 | | 168 | | 219 | | 273 | 324 | 356 | | 406 | 457 | 508 | | | | 610 | | 711 | 762 | 813 | 914 |
| SS Sch 10-160 | | 89 | | 114 | 141 | 168 | | 219 | | 273 | 324 | 356 | | 406 | 457 | 508 | | 559 | | 610 | | | 762 | | |
| Gal Steel | AS1074 | 89 | | 114 | 140 | 168 | | | | | | | | | | | | | 630 | | | | | | |
| ABS Series 1 | AS3518 | 89 | | 114 | 140 | 168 | | 225 | 250 | | 315 | 355 | 400 | 450 | 500 | 560 | | | | | | | | | |
| SS Tube | AS1528 | 76 | | 102 | 127 | 152 | | 203 | | | | | | | | | | | | | | | | | |
| Copper | AS1432 | 76 | | 102 | 127 | 152 | | 203 | 229 | | | | | | | | | | | | | | | | |
| Reinf Concrete | AS4058 | | | | | 197 | | | 279 | | 362 | | 445 | | 533 | | 616 | | | 699 | 787 | | 870 | | |
| Poly PE80 / 100 | AS4130 | 90 | | 110 | 125/140 | 160/180 | | 200/225 | | 250/280 | 315 | 355 | | 400 | 450 | 500 | | 560 | | 630 | | 710 | | 800 | 900 |
| Ductile Iron ISO | EN545 | 98 | | 118 | 114 | 170 | | 222 | | 274 | 326 | 378 | | 429 | 480 | 532 | | | | 635 | | 738 | | 842 | 945 |
| Non-Pressure Pipes | | | | | | | | | | | | | | | | | | | | | | | | | |
| PVC DWV | AS1260 | 82 | 90 | 110 | | 160 | | | 250 | | 315 | | 400 | | | | | | | | | | | | |
| PVC Stormwater | AS1254 | 75 | 90 | 110 | | 160 | | | 250 | | 315 | | 400 | | | | | | | | | | | | |
| VC | AS1741 | | | | 138 | 194 | | | 280 | | 370 | | 450 | 485 | 535 | | 635 | | | 710 | | | | | |
| FRC Class X | | | | | 124 | 179 | | | 261 | | 345 | | 426 | | 510 | | 594 | | | 664 | | | | | |
| AC Class 35 | AS1712 | | | | 120 | 177 | | | 230 | 257 | 283 | 336 | | 419 | | 497 | | 576 | | | 657 | | | | |
| AC Class 50 | AS1712 | | | | 122 | 183 | | | 236 | 262 | 289 | 344 | | 425 | | 505 | | 585 | | | 664 | | | | |
| Cast Iron SWV | AS1631 | 85 | | 114 | 140 | 165 | | | 244 | | 323 | | | | | | | | | | | | | | |
| Cast Iron SWV | EN877 | 83 | | 110 | 135 | 160 | | | 210 | | 274 | 326 | | | 429 | | 532 | | | 635 | | | | | |



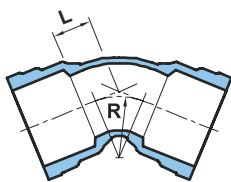
Pipe & Flange Dimensions

| Pipe | | Flanges: PN16 AS4087 (Table C,D) | | | | | | Flanges: AS2129 (Table E) | | | | | | Flanges: PN35 AS4087 (Table F,H) | | | | | |
|------|---------|----------------------------------|-----|----------|-----------|-----------|--------------|---------------------------|-----|----------|-----------|-----------|--------------|----------------------------------|-----|----------|-----------|-----------|--------------|
| Dia. | Pipe OD | Flange OD | PCD | No Holes | Hole Dia. | Bolt Size | Flange Thick | Flange OD | PCD | No Holes | Hole Dia. | Bolt Size | Flange Thick | Flange OD | PCD | No Holes | Hole Dia. | Bolt Size | Flange Thick |
| 80 | 96 | 185 | 146 | 4 | 18 | M16 | 18 | Same as PN16 | | | | | | 205 | 165 | 8 | 18 | M16 | 22 |
| 100 | 122 | 215 | 178 | 4 | 18 | M16 | 20 | 215 | 178 | 8 | 18 | M16 | 22 | 230 | 191 | 8 | 18 | M16 | 22 |
| 150 | 177 | 280 | 235 | 8 | 18 | M16 | 23 | 280 | 235 | 8 | 22 | M20 | 22 | 305 | 260 | 12 | 22 | M20 | 27 |
| 200 | 232 | 335 | 292 | 8 | 18 | M16 | 23 | 335 | 292 | 8 | 22 | M20 | 25 | 370 | 324 | 12 | 22 | M20 | 31 |
| 225 | 259 | 370 | 324 | 8 | 18 | M16 | 24 | 370 | 324 | 12 | 22 | M20 | 25 | 405 | 356 | 12 | 26 | M24 | 34 |
| 250 | 286 | 405 | 356 | 8 | 22 | M20 | 24 | 405 | 356 | 12 | 22 | M20 | 25 | 430 | 381 | 12 | 26 | M24 | 34 |
| 300 | 345 | 455 | 406 | 12 | 22 | M20 | 30 | 455 | 406 | 12 | 26 | M24 | 29 | 490 | 438 | 16 | 26 | M24 | 38 |
| 375 | 426 | 550 | 495 | 12 | 26 | M24 | 33 | Same as PN16 | | | | | | 580 | 521 | 16 | 30 | M27 | 42 |
| 450 | 507 | 640 | 584 | 12 | 26 | M24 | 33 | 640 | 584 | 16 | 26 | M24 | 35 | 675 | 610 | 20 | 33 | M30 | 46 |
| 500 | 560 | 705 | 641 | 16 | 26 | M24 | 35 | 705 | 641 | 16 | 26 | M24 | 38 | 735 | 673 | 24 | 33 | M30 | 49 |
| 525 | 587 | 735 | 673 | 16 | 26 | M24 | 38 | 735 | 673 | 16 | 30 | M27 | 38 | 760 | 699 | 24 | 33 | M30 | 60 |
| 600 | 667 | 825 | 756 | 16 | 30 | M27 | 42 | 825 | 756 | 16 | 33 | M30 | 41 | 850 | 781 | 24 | 36 | M33 | 54 |
| 750 | 826 | 995 | 927 | 20 | 33 | M30 | 47 | 995 | 927 | 20 | 36 | M33 | 48 | 1015 | 940 | 28 | 36 | M33 | 59 |

Ductile Iron Fitting Dimensions

Bend – Socket

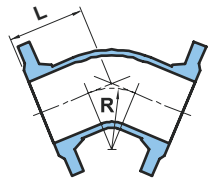
| Diameter | Radius | Dimension L (mm) | | | |
|----------|--------|------------------|----------|--------|--------|
| | | 11 ¼ deg | 22 ½ deg | 45 deg | 90 deg |
| 100 | 152 | 30 | 45 | 80 | 165 |
| 150 | 190 | 35 | 55 | 95 | 205 |
| 200 | 203 | 35 | 55 | 100 | 220 |
| 225 | 229 | 45 | 65 | 115 | 250 |
| 250 | 254 | 45 | 70 | 125 | 275 |
| 300 | 305 | 50 | 80 | 145 | 325 |
| 375 | 381 | 65 | 100 | 185 | 405 |
| 450 | 457 | 70 | 115 | 215 | 480 |
| 500 | 508 | 75 | 125 | 235 | 535 |
| 600 | 610 | 85 | 145 | 280 | 635 |
| 750 | 765 | 105 | 180 | 345 | 795 |



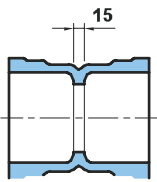
Socket / Socket



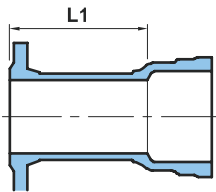
Bend – Flanged



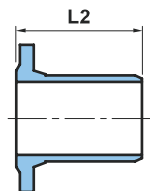
Flange / Flange



Socket / Socket



Flange / Socket



Flange / Spigot

| Diameter | Radius | Dimension L (mm) | | | |
|----------|--------|------------------|----------|--------|--------|
| | | 11 ¼ deg | 22 ½ deg | 45 deg | 90 deg |
| 100 | 152 | 152 | 152 | 152 | 241 |
| 150 | 190 | 190 | 190 | 190 | 279 |
| 200 | 203 | 203 | 203 | 203 | 305 |
| 225 | 229 | 229 | 229 | 229 | 330 |
| 250 | 254 | 254 | 254 | 254 | 356 |
| 300 | 305 | 305 | 305 | 305 | 406 |
| 375 | 381 | 381 | 381 | 381 | 495 |
| 450 | 457 | 457 | 457 | 457 | 572 |
| 500 | 508 | 508 | 508 | 508 | 622 |
| 600 | 610 | 610 | 610 | 610 | 737 |
| 750 | 765 | 230 | 295 | 460 | 905 |

Connectors

| Diameter | Flange / Socket L1 (mm) | Flange / Spigot L2 (mm) |
|----------|-------------------------|-------------------------|
| 100 | 110 | 205 |
| 150 | 135 | 205 |
| 200 | 135 | 230 |
| 225 | 155 | 230 |
| 250 | 155 | 230 |
| 300 | 170 | 255 |
| 375 | 190 | 280 |
| 450 | 200 | 280 |
| 500 | 215 | 305 |
| 600 | 230 | 330 |
| 750 | 250 | 370 |

Tee – Socket & Flanged

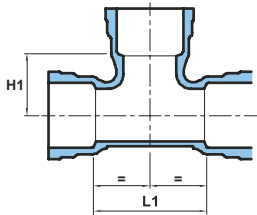
| Diameter | Socket / Socket | Flange / Flange | | | |
|----------|-----------------|-----------------|---------|---------|---------|
| | | L1 (mm) | H1 (mm) | L2 (mm) | H2 (mm) |
| Body | Branch | | | | |
| 100 | 100 | 230 | 115 | 356 | 178 |
| 150 | 100 | 230 | 145 | 406 | 203 |
| 150 | 150 | 290 | 145 | 406 | 203 |
| 200 | 100 | 230 | 170 | 484 | 241 |
| 200 | 150 | 290 | 170 | 484 | 241 |
| 200 | 200 | 340 | 170 | 484 | 241 |
| 225 | 100 | 240 | 185 | 508 | 254 |
| 225 | 150 | 300 | 185 | 508 | 254 |
| 225 | 200 | 350 | 185 | 508 | 254 |
| 225 | 225 | 380 | 190 | 508 | 254 |

More sizes on the next page.

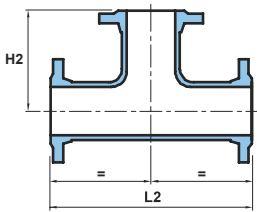


Tee – Socket & Flanged

| Diameter | | Socket / Socket | | Flange / Flange | |
|----------|--------|-----------------|---------|-----------------|---------|
| Body | Branch | L1 (mm) | H1 (mm) | L2 (mm) | H2 (mm) |
| 250 | 100 | 240 | 200 | 534 | 267 |
| 250 | 150 | 300 | 200 | 534 | 267 |
| 250 | 200 | 350 | 200 | 534 | 267 |
| 250 | 225 | 380 | 205 | 534 | 267 |
| 250 | 250 | 410 | 205 | 534 | 267 |
| 300 | 100 | 240 | 230 | 610 | 305 |
| 300 | 150 | 300 | 230 | 610 | 305 |
| 300 | 200 | 350 | 230 | 610 | 305 |
| 300 | 225 | 380 | 235 | 610 | 305 |
| 300 | 250 | 410 | 235 | 610 | 305 |
| 300 | 300 | 490 | 245 | 610 | 305 |
| 375 | 200 | 360 | 270 | 738 | 356 |
| 375 | 225 | 390 | 275 | 738 | 356 |
| 375 | 250 | 420 | 275 | 738 | 356 |
| 375 | 300 | 500 | 285 | 738 | 356 |
| 375 | 375 | 610 | 305 | 738 | 368 |
| 450 | 250 | 420 | 315 | 814 | 394 |
| 450 | 300 | 500 | 325 | 814 | 394 |
| 450 | 375 | 610 | 345 | 814 | 406 |
| 450 | 450 | 690 | 345 | 814 | 406 |
| 500 | 250 | 420 | 340 | 890 | 432 |
| 500 | 300 | 500 | 355 | 890 | 432 |
| 500 | 375 | 610 | 370 | 890 | 444 |
| 500 | 450 | 690 | 370 | 890 | 444 |
| 500 | 500 | 770 | 385 | 890 | 444 |
| 600 | 300 | 500 | 405 | 1016 | 483 |
| 600 | 375 | 610 | 425 | 1016 | 495 |
| 600 | 450 | 690 | 425 | 1016 | 495 |
| 600 | 500 | 770 | 435 | 1016 | 495 |
| 600 | 600 | 870 | 435 | 1016 | 508 |
| 750 | 300 | 510 | 485 | 890 | 615 |
| 750 | 375 | 620 | 505 | 1000 | 645 |
| 750 | 450 | 700 | 505 | 1080 | 655 |
| 750 | 500 | 780 | 515 | 1160 | 680 |
| 750 | 600 | 880 | 515 | 1260 | 695 |
| 750 | 750 | 1070 | 535 | 1450 | 725 |



Socket / Socket

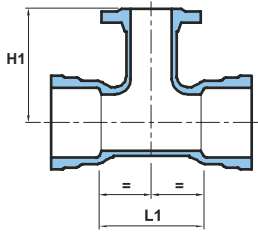


Flange / Flange

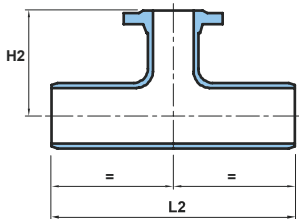


Tee – Socket / Flange & Spigot / Flange

| Diameter | | Socket / Flange | | Spigot / Flange | |
|----------|--------|-----------------|---------|-----------------|---------|
| Body | Branch | L1 (mm) | H1 (mm) | L2 (mm) | H2 (mm) |
| 100 | 80 | 210 | 195 | 432 | 178 |
| 100 | 100 | 230 | 195 | 432 | 178 |
| 150 | 80 | 210 | 225 | 432 | 203 |
| 150 | 100 | 230 | 225 | 432 | 203 |
| 150 | 150 | 290 | 250 | 432 | 203 |
| 200 | 80 | 210 | 250 | 457 | 241 |
| 200 | 100 | 230 | 250 | 457 | 241 |
| 200 | 150 | 290 | 275 | 482 | 241 |
| 200 | 200 | 340 | 275 | 534 | 241 |
| 225 | 80 | 220 | 265 | 457 | 254 |
| 225 | 100 | 240 | 265 | 457 | 254 |
| 225 | 150 | 300 | 290 | 508 | 254 |
| 225 | 200 | 350 | 290 | 534 | 254 |
| 225 | 225 | 380 | 305 | 558 | 254 |
| 250 | 80 | 220 | 280 | 457 | 267 |
| 250 | 100 | 240 | 280 | 457 | 267 |
| 250 | 150 | 300 | 305 | 534 | 267 |
| 250 | 200 | 350 | 305 | 558 | 267 |
| 250 | 225 | 380 | 320 | 558 | 267 |
| 250 | 250 | 410 | 320 | 610 | 267 |
| 300 | 80 | 220 | 310 | 457 | 305 |
| 300 | 100 | 240 | 310 | 457 | 305 |
| 300 | 150 | 300 | 335 | 610 | 305 |
| 300 | 200 | 350 | 335 | 636 | 305 |
| 300 | 225 | 380 | 350 | 636 | 305 |
| 300 | 250 | 410 | 350 | 636 | 305 |
| 300 | 300 | 490 | 375 | 660 | 305 |
| 375 | 80 | 230 | 350 | 559 | 305 |
| 375 | 100 | 250 | 350 | 559 | 305 |
| 375 | 200 | 360 | 375 | 736 | 356 |
| 375 | 225 | 390 | 390 | 736 | 356 |
| 375 | 250 | 420 | 390 | 736 | 356 |
| 375 | 300 | 500 | 415 | 736 | 356 |
| 375 | 375 | 610 | 445 | 812 | 368 |
| 450 | 80 | 230 | 390 | 559 | 343 |
| 450 | 100 | 250 | 390 | 559 | 343 |
| 450 | 250 | 420 | 430 | 812 | 394 |
| 450 | 300 | 500 | 455 | 812 | 394 |
| 450 | 375 | 610 | 485 | 864 | 406 |
| 450 | 450 | 690 | 495 | 888 | 406 |



Socket / Flange



Spigot / Flange

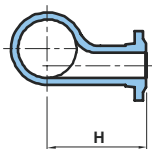
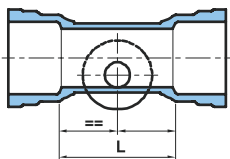
More sizes on the next page.



Tee – Socket / Flange & Spigot / Flange

| Diameter | | Socket / Flange | | Spigot / Flange | |
|----------|--------|-----------------|---------|-----------------|---------|
| Body | Branch | L1 (mm) | H1 (mm) | L2 (mm) | H2 (mm) |
| 500 | 80 | 230 | 415 | 584 | 381 |
| 500 | 100 | 250 | 415 | 584 | 381 |
| 500 | 250 | 420 | 455 | 888 | 432 |
| 500 | 300 | 500 | 485 | 888 | 432 |
| 500 | 375 | 610 | 510 | 940 | 444 |
| 500 | 450 | 690 | 520 | 940 | 444 |
| 500 | 500 | 770 | 550 | 940 | 444 |
| 600 | 80 | 230 | 470 | 584 | 432 |
| 600 | 100 | 250 | 470 | 584 | 432 |
| 600 | 300 | 500 | 535 | 990 | 483 |
| 600 | 375 | 610 | 565 | 1042 | 495 |
| 600 | 450 | 690 | 575 | 1042 | 495 |
| 600 | 500 | 770 | 600 | 1042 | 495 |
| 600 | 600 | 870 | 615 | 1066 | 508 |
| 750 | 100 | 260 | 550 | 570 | 550 |
| 750 | 300 | 510 | 615 | 830 | 615 |
| 750 | 375 | 620 | 645 | 920 | 645 |
| 750 | 450 | 700 | 655 | 1015 | 655 |
| 750 | 500 | 780 | 680 | 1075 | 680 |
| 750 | 600 | 880 | 695 | 1190 | 695 |
| 750 | 750 | 1070 | 725 | 1355 | 725 |
| 750 | 750 | 1070 | 535 | 1450 | 725 |

Scour Tee

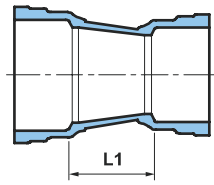


Socket / Flange

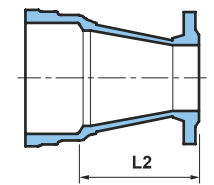
| Diameter | | Socket / Flange | |
|----------|--------|-----------------|--------|
| Body | Branch | L (mm) | H (mm) |
| 100 | 80 | 210 | 195 |
| 150 | 80 | 210 | 225 |
| 150 | 100 | 230 | 195 |
| 200 | 80 | 210 | 250 |
| 200 | 100 | 230 | 250 |
| 225 | 100 | 240 | 265 |
| 250 | 100 | 240 | 280 |
| 300 | 100 | 240 | 310 |
| 375 | 150 | 310 | 375 |
| 450 | 150 | 310 | 415 |
| 500 | 150 | 310 | 440 |
| 600 | 150 | 310 | 495 |
| 750 | 200 | 370 | 575 |



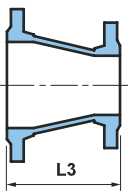
Tee – Socket / Flange & Spigot / Flange



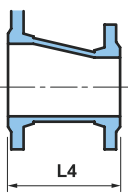
Socket / Socket



Socket / Flange



Flange / Flange



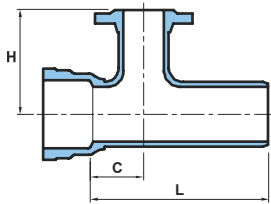
Flange /
Flange Eccentric

| Diameter | | Socket | Socket / Flange | Flange | Flange Ecc |
|----------|--------|---------|-----------------|---------|------------|
| Body | Branch | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) |
| 100 | 80 | 105 | 125 | 165 | 165 |
| 150 | 80 | 230 | 250 | 298 | 298 |
| 150 | 100 | 170 | 190 | 235 | 235 |
| 200 | 100 | 295 | 315 | 368 | 368 |
| 200 | 150 | 170 | 200 | 248 | 248 |
| 225 | 100 | 365 | 385 | 432 | 432 |
| 225 | 150 | 235 | 270 | 311 | 311 |
| 225 | 200 | 110 | 155 | 190 | 190 |
| 250 | 100 | 425 | 445 | 495 | 495 |
| 250 | 150 | 300 | 330 | 375 | 375 |
| 250 | 200 | 175 | 215 | 254 | 254 |
| 250 | 225 | 115 | 160 | 190 | 190 |
| 300 | 100 | 555 | 575 | 629 | 629 |
| 300 | 150 | 425 | 460 | 508 | 508 |
| 300 | 200 | 300 | 345 | 387 | 387 |
| 300 | 225 | 240 | 290 | 324 | 324 |
| 300 | 250 | 180 | 225 | 260 | 260 |
| 375 | 200 | 495 | 540 | 584 | 584 |
| 375 | 225 | 435 | 485 | 521 | 521 |
| 375 | 250 | 375 | 420 | 457 | 457 |
| 375 | 300 | 245 | 305 | 337 | 337 |
| 450 | 250 | 565 | 610 | 660 | 660 |
| 450 | 300 | 435 | 495 | 540 | 540 |
| 450 | 375 | 250 | 310 | 356 | 356 |
| 500 | 250 | 690 | 740 | 787 | 787 |
| 500 | 300 | 565 | 620 | 667 | 667 |
| 500 | 375 | 380 | 440 | 483 | 483 |
| 500 | 450 | 190 | 255 | 305 | 305 |
| 600 | 300 | 820 | 875 | 934 | 934 |
| 600 | 375 | 635 | 690 | 749 | 749 |
| 600 | 450 | 440 | 510 | 572 | 572 |
| 600 | 500 | 315 | 400 | 444 | 444 |
| 750 | 375 | 1020 | 1080 | 1180 | 1180 |
| 750 | 450 | 830 | 895 | 1000 | 1000 |
| 750 | 500 | 700 | 785 | 885 | 885 |
| 750 | 600 | 445 | 540 | 645 | 645 |



Tee – Socket / Spigot / Flange Hydrant

| Diameter | | Spigot / Spigot / Flange | | |
|----------|--------|--------------------------|--------|--------|
| Body | Branch | L (mm) | C (mm) | H (mm) |
| 100 | 80 | 310 | 105 | 195 |
| 100 | 100 | 335 | 115 | 195 |
| 150 | 80 | 310 | 105 | 225 |
| 150 | 100 | 335 | 115 | 225 |
| 200 | 80 | 325 | 105 | 250 |
| 200 | 100 | 345 | 115 | 250 |
| 225 | 80 | 330 | 110 | 265 |
| 225 | 100 | 350 | 120 | 265 |
| 250 | 80 | 330 | 110 | 280 |
| 250 | 100 | 350 | 120 | 280 |
| 300 | 80 | 330 | 110 | 310 |
| 300 | 100 | 350 | 120 | 310 |
| 375 | 80 | 360 | 115 | 350 |
| 375 | 100 | 380 | 125 | 350 |
| 450 | 80 | 360 | 115 | 390 |
| 450 | 100 | 380 | 125 | 390 |
| 500 | 80 | 360 | 115 | 415 |
| 500 | 100 | 380 | 125 | 415 |
| 600 | 80 | 360 | 115 | 470 |
| 600 | 100 | 380 | 125 | 470 |
| 750 | 100 | 415 | 130 | 550 |



Socket / Spigot / Flange

Some products comply with the requirements of AS / NZS2280 however the dimensions may vary by manufacturer:

- › Bends – Washout, Hydrant, Pedestal, Duckfoot, Spigot / Flange and Socket / Flange
- › PN16 Socket Fittings
- › Spigot Fittings – All styles
- › Bellmouths, Pre-tap Connectors, Y-Junctions and Crosses
- › Socket depths

Contact Clover for dimensional details regarding these products.



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