

ENGINEERED FOR SUPERIOR PERFORMANCE

Stainless Steel Connection System





AQUApipe specializes in solutions for compressed air and fluids distribution. Through out the last 10 years, we have continued to invest in R&D, by taking into account market feedback and real-world conditions, our technology has gone through several stages of evolution. Today the new generation of products are engineered to be the most superior products available.



More than 31,000m² layout, 100% ownership of manufacturing plants, R&D center, office, logistic center. We're committed to your total solution provider for products, system design, engineering proposal and installations.

Our products are utilized globally for all compressed air, inert gas, and fluid applications.





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AQUApipe is focusing on fluids supply system solution, it belongs to AIRpipe. By utilizing synergy of piping connection technology from AIRpipe, AQUApipe brings superior performance of thin wall stainless steel pipe system.

By using this unique patented technology, AQUApipe not only inherits all good benefits from stainless steel, but also help you to reduce the installation and material costs to a minimum level.

Now it's time to say goodbye to your welding or threading toolset!



* AQUApipe is a product brand in AIRpipe Group.

GOODBYE...



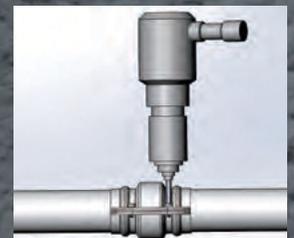


Engineered for
Superior Performance

OUR TECHNOLOGY

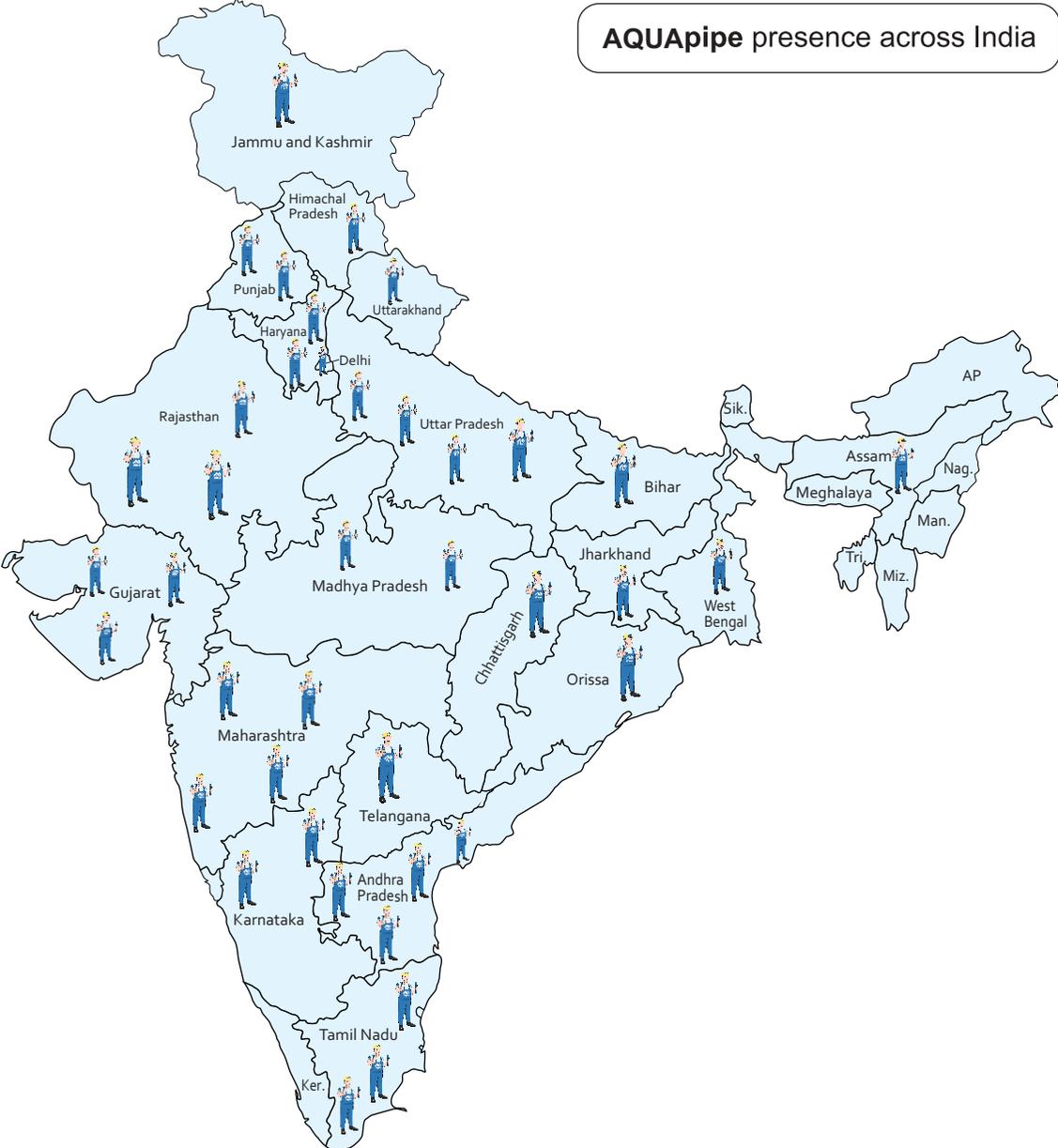


Clamp connection



DN125-250

AQUApipe presence across India



| North | West | South | East | Project |
|--|---|--|--|--|
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Engineered for
Superior Performance



◀  **DN125-250**

- Clampshell union connector, quick install & re-assembly.
- Convex ring, no shrinking on inner diameter.
- Surface contact, active concentric sealing, leak free.
- Superior reliability & longevity.



 **DN15-100** ▶

- Built-in sealing, options for gas and liquid.
- Extension fitting sleeve grabbing on pipe.
- Quick & modular installation, reduce labor cost.
- Superior reliability & longevity.



Disadvantage of PPR Pipe



- Aging on UV, not suitable for outdoor installation.
- Bacteria/moss grow on light, pollution into fluids.
- Heat expansion 8 times of SS, strength 1/8 of SS, risk of broken in low temperature.
- Leakage/loosening due to plastic hot melting connection, short lifetime.
- Inner size reduction due to hot melting, flow restriction.

Disadvantage of Carbon Steel Pipe



- Oxidization, rusting will be accelerated after 4-5 years, both inner and outside.
- High flow friction inner surface and pollution into fluids.
- High Leakage & broken risk especially for outdoor and underground installation.
- Thick & heavy pipe, high labor cost due to welding/ threading/ flanging,

AQUApipes Features & Benefits



- International standards 304/316 stainless steel.
- Premium quality for water, air/ gas and other compatible fluids.
- Widely used in industries like food & beverage, medical & chemical productions, pharmacy etc.



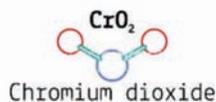
- Wide temperature range by working with proper sealing.
- Moderate expansion characteristics & high tensile strength.
- No risk of breaking due to water freezing.



- 10 years warranty for all AQUApipes & fittings.
- Stability for all weather conditions.
- "Soft" connection can absorb 2-3mm expansion/ contraction.



- Corrosion resistance due to chromium dioxide layer.
- Smooth inner surface ensure best flow characteristics.
- No risk on pollution into fluids.



AQUApipe vs PPR Pipe



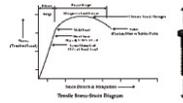
| | Items | AQUApipe (304) | PPR pipe | Remark |
|--------------------------|---|-----------------------|-----------------|---|
| Corrosion Resistance | Tensile strength(N/mm ²) | ≥520 | ≥49 | PPR's strength only 9.2% of AQUApipe |
| | Wear resistance | High | Low | PPR much lower resistance to flow impact |
| | UV impact | No impact | Aging | Plastic will be aging quickly due to constant UV light |
| | Expansion factor(10 ⁻⁶ m ³ /°C) (0-100°C) | 16 | 70 | Expansion is 8 times of AQUApipe, risk of leaking/ breaking due to temperature change |
| | Lowest temperature | -40°C, sealing -270°C | -5°C | PPR will be crispy below zero |
| | Highest temperature | 120°C, sealing 400°C | 90°C | Risk of toxic materials being separated out when PPR above 90°C |
| | Environmental endocrine | No | Possible | Disturb endocrine system |
| Environmental Protection | Contamination precipitation | Very less | Easy to happen | Easy to be polluted due to sunshine and contamination |
| | Risk of toxic water | No | Possible | If plastic material doesn't comply relevant standard |
| | Toxic materials | No | Possible | Possible into fluids |
| | Odours | No | Possible | Possible into fluids |
| | Recycle | Recycle | Non-degradation | Can not be 100% recycled |
| | Lifetime | ≥100 years | 5-20 years | Only ¼ lifetime of AQUApipe |

Physical performance of different pipes



| Pipe materials | Density (kg/m ³) | Expansion factor (10 ⁻⁶ m/°C) | Thermal conductivity (W/m/°C) | Specific heat conductivity (J/KG/°C) | Resistivity (Ωkmm ² /m) | Young's modulus (KN/mm ²) | Magnetism |
|-------------------|------------------------------|--|-------------------------------|--------------------------------------|------------------------------------|---------------------------------------|-----------|
| AQUApipes | 7930 | 16 | 15 | 500 | 0.72 | 200 | No |
| Carbon steel pipe | 7850 | 11.6 | 60 | 60 | 0.14 | 210 | Yes |
| Plastic pipe | UPVC | 1350 | 70 | 0.05 | 1470 | C.10-18 | / |
| | PE, PEX, PB | 950 | 140 | | | | |
| | PP-R | 900 | 110 | | | | |

Tensile strength of metal pipes



| Pipe type | Material | Tensile strength (MPa) | Elongation (%) |
|--------------|--------------|------------------------|----------------|
| AQUApipes | 304 | 520~750 | > 35 |
| | 304L | 480~670 | |
| | 316 | 520~680 | |
| | 316L | 480~620 | |
| Carbon steel | Carbon steel | 230~290 | > 30 |
| Copper | Copper | 210~380 | / |

Flow rate comparison



| Pipe materials (L/min) | Nominal Diameter | | | | | |
|------------------------|------------------|------|------|------|------|------|
| | 15mm | 20mm | 25mm | 32mm | 50mm | 65mm |
| | ½ | ¾ | 1 | 1¼ | 2 | 2½ |
| AQUApipes | 7 | 16 | 34 | 53 | 174 | 297 |
| Copper pipe | 6 | 15 | 30 | 51 | 160 | 265 |
| Galvanized pipe | 6 | 13 | 25 | 49 | 138 | 265 |
| Aluminum plastic pipe | 5 | 11 | 24 | 50 | 153 | / |

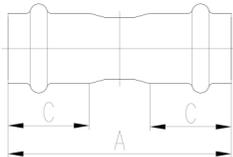
PRODUCT TECHNICAL PARAMETERS

STAINLESS STEEL PIPE



| SS304 | SS316 | Description of products |
|-------------|-------------|--|
| 51200000101 | 50100000104 | STAINLESS STEEL PIPE DN15(ODφ16mm,THICKNESS 0.8mm)5.8m |
| 51200010101 | 50100010104 | STAINLESS STEEL PIPE DN20(ODφ20mm,THICKNESS 1.0mm)5.8m |
| 51200020101 | 50100020104 | STAINLESS STEEL PIPE DN25(ODφ25.4mm,THICKNESS 1.0mm)5.8m |
| 51200030101 | 50100030104 | STAINLESS STEEL PIPE DN32(ODφ32mm,THICKNESS 1.2mm)5.8m |
| 51200040101 | 50100040104 | STAINLESS STEEL PIPE DN40(ODφ40mm,THICKNESS 1.2mm)5.8m |
| 51200050101 | 50100050104 | STAINLESS STEEL PIPE DN50(ODφ50.8mm,THICKNESS 1.2mm)5.8m |
| 51200060101 | 50100060104 | STAINLESS STEEL PIPE DN60(ODφ63.5mm,THICKNESS 1.2mm)5.8m |
| 51200140101 | 50100140104 | STAINLESS STEEL PIPE DN65(ODφ76.1mm,THICKNESS 1.5mm)5.8m |
| 51200070101 | 50100070104 | STAINLESS STEEL PIPE DN80(ODφ88.9mm,THICKNESS 1.5mm)5.8m |
| 51200080001 | 50100080004 | STAINLESS STEEL PIPE DN100(ODφ101.6mm,THICKNESS 1.5mm)5.8m |
| 51200090001 | 50100090004 | STAINLESS STEEL PIPE DN125(ODφ133mm,THICKNESS 2.0mm)5.8m |
| 51200100001 | 50100100004 | STAINLESS STEEL PIPE DN150(ODφ159mm,THICKNESS 2.0mm)5.8m |
| 51200110001 | 50100110004 | STAINLESS STEEL PIPE DN200(ODφ219mm,THICKNESS 2.5mm)5.8m |
| 51200120001 | 50100120004 | STAINLESS STEEL PIPE DN250(ODφ273mm,THICKNESS 3.0mm)5.8m |

PIPE TO PIPE JOINT



| EPDM | | EPDM (NSF) | | Description of products | A | B |
|-------------|-------------|---------------|---------------|---|-----|------|
| SS304 | SS316 | SS304 | SS316 | | | |
| 51202000001 | 51202000005 | 51202000002 | 51202000006 | PIPE TO PIPE JOINT, DN15, PRESS | 58 | 21 |
| 51202010001 | 51202010005 | 51202010002 | 51202010006 | PIPE TO PIPE JOINT, DN20, PRESS | 63 | 24 |
| 51202020001 | 51202020005 | 51202020002 | 51202020006 | PIPE TO PIPE JOINT, DN25, PRESS | 76 | 28 |
| 51202030001 | 51202030005 | 51202030002 | 51202030006 | PIPE TO PIPE JOINT, DN32, PRESS | 91 | 35 |
| 51202040001 | 51202040005 | 51202040002 | 51202040006 | PIPE TO PIPE JOINT, DN40, PRESS | 112 | 42.5 |
| 51202050001 | 51202050005 | 51202050002 | 51202050006 | PIPE TO PIPE JOINT, DN50, PRESS | 125 | 48.5 |
| 51202060001 | 51202060005 | 51202060002 | 51202060006 | PIPE TO PIPE JOINT, DN60, PRESS | 151 | 58 |
| 51202140001 | 51202140005 | 51202140002 | 51202140006 | PIPE TO PIPE JOINT, DN65, PRESS | 161 | 60 |
| 51202070001 | 51202070005 | 51202070002 | 51202070006 | PIPE TO PIPE JOINT, DN80, PRESS | 169 | 70 |
| 51202080001 | 51202080005 | 51202080002 | 51202080006 | PIPE TO PIPE JOINT, DN100, PRESS | 192 | 82 |
| 50102090106 | 50102090106 | not available | not available | PIPE TO PIPE JOINT, DN125, CLAMP | | |
| 50102100106 | 50102100106 | not available | not available | PIPE TO PIPE JOINT, DN150, CLAMP | | |
| 50102110106 | 50102110106 | not available | not available | PIPE TO PIPE JOINT, DN200, CLAMP | | |
| 50102120103 | 50102120103 | not available | not available | PIPE TO PIPE JOINT(STEEL), DN250, CLAMP | | |

| NBR | | FKM | | Description of products | A | B |
|-------------|-------------|-------------|-------------|---|-----|------|
| SS304 | SS316 | SS304 | SS316 | | | |
| 51202000003 | 51202000007 | 51202000004 | 51202000008 | PIPE TO PIPE JOINT, DN15, PRESS | 58 | 21 |
| 51202010003 | 51202010007 | 51202010004 | 51202010008 | PIPE TO PIPE JOINT, DN20, PRESS | 63 | 24 |
| 51202020003 | 51202020007 | 51202020004 | 51202020008 | PIPE TO PIPE JOINT, DN25, PRESS | 76 | 28 |
| 51202030003 | 51202030007 | 51202030004 | 51202030008 | PIPE TO PIPE JOINT, DN32, PRESS | 91 | 35 |
| 51202040003 | 51202040007 | 51202040004 | 51202040008 | PIPE TO PIPE JOINT, DN40, PRESS | 112 | 42.5 |
| 51202050003 | 51202050007 | 51202050004 | 51202050008 | PIPE TO PIPE JOINT, DN50, PRESS | 125 | 48.5 |
| 51202060003 | 51202060007 | 51202060004 | 51202060008 | PIPE TO PIPE JOINT, DN60, PRESS | 151 | 58 |
| 51202140003 | 51202140007 | 51202140004 | 51202140008 | PIPE TO PIPE JOINT, DN65, PRESS | 161 | 60 |
| 51202070003 | 51202070007 | 51202070004 | 51202070008 | PIPE TO PIPE JOINT, DN80, PRESS | 169 | 70 |
| 51202080003 | 51202080007 | 51202080004 | 51202080008 | PIPE TO PIPE JOINT, DN100, PRESS | 192 | 82 |
| 50102090105 | 50102090105 | 50102090107 | 50102090107 | PIPE TO PIPE JOINT, DN125, CLAMP | | |
| 50102100105 | 50102100105 | 50102100107 | 50102100107 | PIPE TO PIPE JOINT, DN150, CLAMP | | |
| 50102110105 | 50102110105 | 50102110107 | 50102110107 | PIPE TO PIPE JOINT, DN200, CLAMP | | |
| 50102120102 | 50102120102 | 50102120104 | 50102120104 | PIPE TO PIPE JOINT(STEEL), DN250, CLAMP | | |

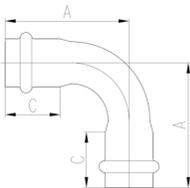
SLIDE PIPE TO PIPE JOINT



| EPDM | | EPDM (NSF) | | Description of products | A |
|-------------|-------------|-------------|-------------|---------------------------------------|-----|
| SS304 | SS316 | SS304 | SS316 | | |
| 51202009901 | 51202009905 | 51202009902 | 51202009906 | LONG PIPE TO PIPE JOINT, DN15, PRESS | 116 |
| 51202019901 | 51202019905 | 51202019902 | 51202019906 | LONG PIPE TO PIPE JOINT, DN20, PRESS | 131 |
| 51202029901 | 51202029905 | 51202029902 | 51202029906 | LONG PIPE TO PIPE JOINT, DN25, PRESS | 129 |
| 51202039901 | 51202039905 | 51202039902 | 51202039906 | LONG PIPE TO PIPE JOINT, DN32, PRESS | 100 |
| 51202049901 | 51202049905 | 51202049902 | 51202049906 | LONG PIPE TO PIPE JOINT, DN40, PRESS | 116 |
| 51202059901 | 51202059905 | 51202059902 | 51202059906 | LONG PIPE TO PIPE JOINT, DN50, PRESS | 126 |
| 51202069901 | 51202069905 | 51202069902 | 51202069906 | LONG PIPE TO PIPE JOINT, DN60, PRESS | 214 |
| 51202149901 | 51202149905 | 51202149902 | 51202149906 | LONG PIPE TO PIPE JOINT, DN65, PRESS | 232 |
| 51202079901 | 51202079905 | 51202079902 | 51202079906 | LONG PIPE TO PIPE JOINT, DN80, PRESS | 265 |
| 51202089901 | 51202089905 | 51202089902 | 51202089906 | LONG PIPE TO PIPE JOINT, DN100, PRESS | 300 |

| NBR | | FKM | | Description of products | A |
|-------------|-------------|-------------|-------------|---------------------------------------|-----|
| SS304 | SS316 | SS304 | SS316 | | |
| 51202009903 | 51202009907 | 51202009904 | 51202009908 | LONG PIPE TO PIPE JOINT, DN15, PRESS | 116 |
| 51202019903 | 51202019907 | 51202019904 | 51202019908 | LONG PIPE TO PIPE JOINT, DN20, PRESS | 131 |
| 51202029903 | 51202029907 | 51202029904 | 51202029908 | LONG PIPE TO PIPE JOINT, DN25, PRESS | 129 |
| 51202039903 | 51202039907 | 51202039904 | 51202039908 | LONG PIPE TO PIPE JOINT, DN32, PRESS | 100 |
| 51202049903 | 51202049907 | 51202049904 | 51202049908 | LONG PIPE TO PIPE JOINT, DN40, PRESS | 116 |
| 51202059903 | 51202059907 | 51202059904 | 51202059908 | LONG PIPE TO PIPE JOINT, DN50, PRESS | 126 |
| 51202069903 | 51202069907 | 51202069904 | 51202069908 | LONG PIPE TO PIPE JOINT, DN60, PRESS | 214 |
| 51202149903 | 51202149907 | 51202149904 | 51202149908 | LONG PIPE TO PIPE JOINT, DN65, PRESS | 232 |
| 51202079903 | 51202079907 | 51202079904 | 51202079908 | LONG PIPE TO PIPE JOINT, DN80, PRESS | 265 |
| 51202089903 | 51202089907 | 51202089904 | 51202089908 | LONG PIPE TO PIPE JOINT, DN100, PRESS | 300 |

90° ELBOW



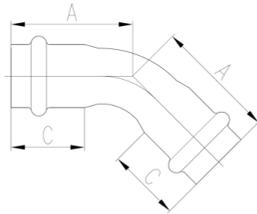
| EPDM | | EPDM (NSF) | | Description of products | A | C |
|-------------|-------------|-------------|-------------|-------------------------|-------|------|
| SS304 | SS316 | SS304 | SS316 | | | |
| 51203000001 | 51203000005 | 51203000002 | 51203000006 | 90°ELBOW, DN15, PRESS | 47.5 | 21 |
| 51203010001 | 51203010005 | 51203010002 | 51203010006 | 90°ELBOW, DN20, PRESS | 58 | 24 |
| 51203020001 | 51203020005 | 51203020002 | 51203020006 | 90°ELBOW, DN25, PRESS | 71.5 | 28 |
| 51203030001 | 51203030005 | 51203030002 | 51203030006 | 90°ELBOW, DN32, PRESS | 84 | 35 |
| 51203040001 | 51203040005 | 51203040002 | 51203040006 | 90°ELBOW, DN40, PRESS | 107 | 42.5 |
| 51203050001 | 51203050005 | 51203050002 | 51203050006 | 90°ELBOW, DN50, PRESS | 129.5 | 48.5 |
| 51203060001 | 51203060005 | 51203060002 | 51203060006 | 90°ELBOW, DN60, PRESS | 165 | 58 |
| 51203140001 | 51203140005 | 51203140002 | 51203140006 | 90°ELBOW, DN65, PRESS | 185 | 60 |
| 51203070001 | 51203070005 | 51203070002 | 51203070006 | 90°ELBOW, DN80, PRESS | 215 | 70 |
| 51203080001 | 51203080005 | 51203080002 | 51203080006 | 90°ELBOW, DN100, PRESS | 245 | 82 |

| NBR | | FKM | | Description of products | A | C |
|-------------|-------------|-------------|-------------|-------------------------|-------|------|
| SS304 | SS316 | SS304 | SS316 | | | |
| 51203000003 | 51203000007 | 51203000004 | 51203000008 | 90°ELBOW, DN15, PRESS | 47.5 | 21 |
| 51203010003 | 51203010007 | 51203010004 | 51203010008 | 90°ELBOW, DN20, PRESS | 58 | 24 |
| 51203020003 | 51203020007 | 51203020004 | 51203020008 | 90°ELBOW, DN25, PRESS | 71.5 | 28 |
| 51203030003 | 51203030007 | 51203030004 | 51203030008 | 90°ELBOW, DN32, PRESS | 84 | 35 |
| 51203040003 | 51203040007 | 51203040004 | 51203040008 | 90°ELBOW, DN40, PRESS | 107 | 42.5 |
| 51203050003 | 51203050007 | 51203050004 | 51203050008 | 90°ELBOW, DN50, PRESS | 129.5 | 48.5 |
| 51203060003 | 51203060007 | 51203060004 | 51203060008 | 90°ELBOW, DN60, PRESS | 165 | 58 |
| 51203140003 | 51203140007 | 51203140004 | 51203140008 | 90°ELBOW, DN65, PRESS | 185 | 60 |
| 51203070003 | 51203070007 | 51203070004 | 51203070008 | 90°ELBOW, DN80, PRESS | 215 | 70 |
| 51203080003 | 51203080007 | 51203080004 | 51203080008 | 90°ELBOW, DN100, PRESS | 245 | 82 |



| EPDM | | Description of products |
|-------------|-------------|-------------------------|
| SS304 | SS316 | |
| 50103090003 | 50103090004 | 90°ELBOW, DN125, CLAMP |
| 50103100003 | 50103100004 | 90°ELBOW, DN150, CLAMP |
| 50103110003 | 50103110004 | 90°ELBOW, DN200, CLAMP |
| 50103120003 | 50103120004 | 90°ELBOW, DN250, CLAMP |

45° ELBOW

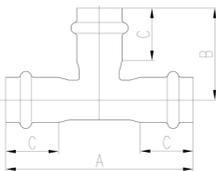


| EPDM | | EPDM (NSF) | | Description of products | A | C |
|-------------|-------------|-------------|-------------|-------------------------|-------|------|
| SS304 | SS316 | SS304 | SS316 | | | |
| 51204000001 | 51204000005 | 51204000002 | 51204000006 | 45°ELBOW, DN15, PRESS | 35 | 21 |
| 51204010001 | 51204010005 | 51204010002 | 51204010006 | 45°ELBOW, DN20, PRESS | 40 | 24 |
| 51204020001 | 51204020005 | 51204020002 | 51204020006 | 45°ELBOW, DN25, PRESS | 47.5 | 28 |
| 51204030001 | 51204030005 | 51204030002 | 51204030006 | 45°ELBOW, DN32, PRESS | 58.5 | 35 |
| 51204040001 | 51204040005 | 51204040002 | 51204040006 | 45°ELBOW, DN40, PRESS | 72 | 42.5 |
| 51204050001 | 51204050005 | 51204050002 | 51204050006 | 45°ELBOW, DN50, PRESS | 85.5 | 48.5 |
| 51204060001 | 51204060005 | 51204060002 | 51204060006 | 45°ELBOW, DN60, PRESS | 109 | 58 |
| 51204140001 | 51204140005 | 51204140002 | 51204140006 | 45°ELBOW, DN65, PRESS | 118 | 60 |
| 51204070001 | 51204070005 | 51204070002 | 51204070006 | 45°ELBOW, DN80, PRESS | 136.5 | 70 |
| 51204080001 | 51204080005 | 51204080002 | 51204080006 | 45°ELBOW, DN100, PRESS | 156 | 82 |

| NBR | | FKM | | Description of products | A | C |
|-------------|-------------|-------------|-------------|-------------------------|-------|------|
| SS304 | SS316 | SS304 | SS316 | | | |
| 51204000003 | 51204000007 | 51204000004 | 51204000008 | 45°ELBOW, DN15, PRESS | 35 | 21 |
| 51204010003 | 51204010007 | 51204010004 | 51204010008 | 45°ELBOW, DN20, PRESS | 40 | 24 |
| 51204020003 | 51204020007 | 51204020004 | 51204020008 | 45°ELBOW, DN25, PRESS | 47.5 | 28 |
| 51204030003 | 51204030007 | 51204030004 | 51204030008 | 45°ELBOW, DN32, PRESS | 58.5 | 35 |
| 51204040003 | 51204040007 | 51204040004 | 51204040008 | 45°ELBOW, DN40, PRESS | 72 | 42.5 |
| 51204050003 | 51204050007 | 51204050004 | 51204050008 | 45°ELBOW, DN50, PRESS | 85.5 | 48.5 |
| 51204060003 | 51204060007 | 51204060004 | 51204060008 | 45°ELBOW, DN60, PRESS | 109 | 58 |
| 51204140003 | 51204140007 | 51204140004 | 51204140008 | 45°ELBOW, DN65, PRESS | 118 | 60 |
| 51204070003 | 51204070007 | 51204070004 | 51204070008 | 45°ELBOW, DN80, PRESS | 136.5 | 70 |
| 51204080003 | 51204080007 | 51204080004 | 51204080008 | 45°ELBOW, DN100, PRESS | 156 | 82 |

| EPDM | | Description of products |
|-------------|-------------|-------------------------|
| SS304 | SS316 | |
| 50104090003 | 50104090004 | 45°ELBOW, DN125, CLAMP |
| 50104100003 | 50104100004 | 45°ELBOW, DN150, CLAMP |
| 50104110003 | 50104110004 | 45°ELBOW, DN200, CLAMP |
| 50104120003 | 50104120004 | 45°ELBOW, DN250, CLAMP |

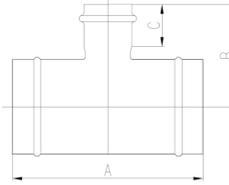
EQUAL TEE



| EPDM | | EPDM (NSF) | | Description of products | A | B | C |
|-------------|-------------|-------------|-------------|-------------------------|-----|------|------|
| SS304 | SS316 | SS304 | SS316 | | | | |
| 51205000001 | 51205000005 | 51205000002 | 51205000006 | EQUAL TEE, DN15, PRESS | 75 | 37 | 21 |
| 51205010001 | 51205010005 | 51205010002 | 51205010006 | EQUAL TEE, DN20, PRESS | 90 | 43 | 24 |
| 51205020001 | 51205020005 | 51205020002 | 51205020006 | EQUAL TEE, DN25, PRESS | 108 | 51.5 | 28 |
| 51205030001 | 51205030005 | 51205030002 | 51205030006 | EQUAL TEE, DN32, PRESS | 130 | 64 | 35 |
| 51205040001 | 51205040005 | 51205040002 | 51205040006 | EQUAL TEE, DN40, PRESS | 164 | 78 | 42.5 |
| 51205050001 | 51205050005 | 51205050002 | 51205050006 | EQUAL TEE, DN50, PRESS | 187 | 89.5 | 48.5 |
| 51205060001 | 51205060005 | 51205060002 | 51205060006 | EQUAL TEE, DN60, PRESS | 220 | 109 | 58 |
| 51205140001 | 51205140005 | 51205140002 | 51205140006 | EQUAL TEE, DN65, PRESS | 237 | 118 | 60 |
| 51205070001 | 51205070005 | 51205070002 | 51205070006 | EQUAL TEE, DN80, PRESS | 264 | 130 | 70 |
| 51205080001 | 51205080005 | 51205080002 | 51205080006 | EQUAL TEE, DN100, PRESS | 302 | 149 | 82 |

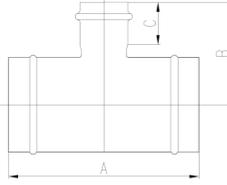
| NBR | | FKM | | Description of products | A | B | C |
|-------------|-------------|-------------|-------------|-------------------------|-----|------|------|
| SS304 | SS316 | SS304 | SS316 | | | | |
| 51205000003 | 51205000007 | 51205000004 | 51205000008 | EQUAL TEE, DN15, PRESS | 75 | 37 | 21 |
| 51205010003 | 51205010007 | 51205010004 | 51205010008 | EQUAL TEE, DN20, PRESS | 90 | 43 | 24 |
| 51205020003 | 51205020007 | 51205020004 | 51205020008 | EQUAL TEE, DN25, PRESS | 108 | 51.5 | 28 |
| 51205030003 | 51205030007 | 51205030004 | 51205030008 | EQUAL TEE, DN32, PRESS | 130 | 64 | 35 |
| 51205040003 | 51205040007 | 51205040004 | 51205040008 | EQUAL TEE, DN40, PRESS | 164 | 78 | 42.5 |
| 51205050003 | 51205050007 | 51205050004 | 51205050008 | EQUAL TEE, DN50, PRESS | 187 | 89.5 | 48.5 |
| 51205060003 | 51205060007 | 51205060004 | 51205060008 | EQUAL TEE, DN60, PRESS | 220 | 109 | 58 |
| 51205140003 | 51205140007 | 51205140004 | 51205140008 | EQUAL TEE, DN65, PRESS | 237 | 118 | 60 |
| 51205070003 | 51205070007 | 51205070004 | 51205070008 | EQUAL TEE, DN80, PRESS | 264 | 130 | 70 |
| 51205080003 | 51205080007 | 51205080004 | 51205080008 | EQUAL TEE, DN100, PRESS | 302 | 149 | 82 |

| EPDM | | Description of products |
|-------------|-------------|-------------------------|
| SS304 | SS316 | |
| 50105090003 | 50105090004 | EQUAL TEE, DN125, CLAMP |
| 50105100003 | 50105100004 | EQUAL TEE, DN150, CLAMP |
| 50105110003 | 50105110004 | EQUAL TEE, DN200, CLAMP |
| 50105120003 | 50105120004 | EQUAL TEE, DN250, CLAMP |

REDUCING TEE


| EPDM | | EPDM (NSF) | | Description of products | A | B | C | C1 |
|-------------|-------------|-------------|-------------|--|-------|-------|------|------|
| SS304 | SS316 | SS304 | SS316 | | | | | |
| 51207010001 | 51207010005 | 51207010002 | 51207010006 | REDUCING TEE, DN20-DN15, PRESS | 90 | 47.5 | 24 | 21 |
| 51207020001 | 51207020005 | 51207020002 | 51207020006 | REDUCING TEE, DN25-DN15, PRESS | 108 | 50 | 28 | 21 |
| 51207020101 | 51207020105 | 51207020102 | 51207020106 | REDUCING TEE, DN25-DN20, PRESS | 108 | 58 | 28 | 24 |
| 51207030001 | 51207030005 | 51207030002 | 51207030006 | REDUCING TEE, DN32-DN15, PRESS | 130 | 53.5 | 35 | 21 |
| 51207030101 | 51207030105 | 51207030102 | 51207030106 | REDUCING TEE, DN32-DN20, PRESS | 130 | 61 | 35 | 24 |
| 51207030201 | 51207030205 | 51207030202 | 51207030206 | REDUCING TEE, DN32-DN25, PRESS | 130 | 55 | 35 | 28 |
| 51207040001 | 51207040005 | 51207040002 | 51207040006 | REDUCING TEE, DN40-DN15, PRESS | 164 | 57.5 | 42.5 | 21 |
| 51207040101 | 51207040105 | 51207040102 | 51207040106 | REDUCING TEE, DN40-DN20, PRESS | 164 | 65 | 42.5 | 24 |
| 51207040201 | 51207040205 | 51207040202 | 51207040206 | REDUCING TEE, DN40-DN25, PRESS | 164 | 58 | 42.5 | 28 |
| 51207040301 | 51207040305 | 51207040302 | 51207040306 | REDUCING TEE, DN40-DN32, PRESS | 164 | 65 | 42.5 | 35 |
| 51207050001 | 51207050005 | 51207050002 | 51207050006 | REDUCING TEE, DN50-DN15, PRESS | 187 | 64 | 48.5 | 21 |
| 51207050101 | 51207050105 | 51207050102 | 51207050106 | REDUCING TEE, DN50-DN20, PRESS | 187 | 71 | 48.5 | 24 |
| 51207050201 | 51207050205 | 51207050202 | 51207050206 | REDUCING TEE, DN50-DN25, PRESS | 187 | 64 | 48.5 | 28 |
| 51207050301 | 51207050305 | 51207050302 | 51207050306 | REDUCING TEE, DN50-DN32, PRESS | 187 | 72 | 48.5 | 35 |
| 51207050401 | 51207050405 | 51207050402 | 51207050406 | REDUCING TEE, DN50-DN40, PRESS | 187 | 82 | 48.5 | 42.5 |
| 51207060001 | 51207060005 | 51207060002 | 51207060006 | REDUCING TEE, DN60-DN15, PRESS | 220 | 70 | 58 | 21 |
| 51207060101 | 51207060105 | 51207060102 | 51207060106 | REDUCING TEE, DN60-DN20, PRESS | 220 | 76 | 58 | 24 |
| 51207060201 | 51207060205 | 51207060202 | 51207060206 | REDUCING TEE, DN60-DN25, PRESS | 220 | 71 | 58 | 28 |
| 51207060301 | 51207060305 | 51207060302 | 51207060306 | REDUCING TEE, DN60-DN32, PRESS | 220 | 78 | 58 | 35 |
| 51207060401 | 51207060405 | 51207060402 | 51207060406 | REDUCING TEE, DN60-DN40, PRESS | 220 | 90 | 58 | 42.5 |
| 51207060501 | 51207060505 | 51207060502 | 51207060506 | REDUCING TEE, DN60-DN50, PRESS | 220 | 95 | 58 | 48.5 |
| 51207140001 | 51207140005 | 51207140002 | 51207140006 | REDUCING TEE, DN65-DN15, PRESS | 237 | 77 | 60 | 21 |
| 51207140101 | 51207140105 | 51207140102 | 51207140106 | REDUCING TEE, DN65-DN20, PRESS | 237 | 83 | 60 | 24 |
| 51207140201 | 51207140205 | 51207140202 | 51207140206 | REDUCING TEE, DN65-DN25, PRESS | 237 | 77 | 60 | 28 |
| 51207140301 | 51207140305 | 51207140302 | 51207140306 | REDUCING TEE, DN65-DN32, PRESS | 237 | 85 | 60 | 35 |
| 51207140401 | 51207140405 | 51207140402 | 51207140406 | REDUCING TEE, DN65-DN40, PRESS | 237 | 95 | 60 | 42.8 |
| 51207140501 | 51207140505 | 51207140502 | 51207140506 | REDUCING TEE, DN65-DN50, PRESS | 237 | 102 | 60 | 48.5 |
| 51207140601 | 51207140605 | 51207140602 | 51207140606 | REDUCING TEE, DN65-DN60, PRESS | 237 | 115 | 60 | 58 |
| 51207070101 | 51207070105 | 51207070102 | 51207070106 | REDUCING TEE, DN80-DN20, PRESS | 264 | 89 | 70 | 24 |
| 51207070201 | 51207070205 | 51207070202 | 51207070206 | REDUCING TEE, DN80-DN25, PRESS | 264 | 83.5 | 70 | 28 |
| 51207070301 | 51207070305 | 51207070302 | 51207070306 | REDUCING TEE, DN80-DN32, PRESS | 264 | 91 | 70 | 35 |
| 51207070401 | 51207070405 | 51207070402 | 51207070406 | REDUCING TEE, DN80-DN40, PRESS | 264 | 101.5 | 70 | 42.5 |
| 51207070501 | 51207070505 | 51207070502 | 51207070506 | REDUCING TEE, DN80-DN50, PRESS | 264 | 108 | 70 | 48.5 |
| 51207070601 | 51207070605 | 51207070602 | 51207070606 | REDUCING TEE, DN80-DN60, PRESS | 264 | 121 | 70 | 58 |
| 51207071401 | 51207071405 | 51207071402 | 51207071406 | REDUCING TEE, DN80-DN65, PRESS | 264 | 123.5 | 70 | 60 |
| 51207080101 | 51207080105 | 51207080102 | 51207080106 | REDUCING TEE, DN100-DN20, PRESS | 302 | 95 | 82 | 24 |
| 51207080201 | 51207080205 | 51207080202 | 51207080206 | REDUCING TEE, DN100-DN25, PRESS | 302 | 90 | 82 | 28 |
| 51207080301 | 51207080305 | 51207080302 | 51207080306 | REDUCING TEE, DN100-DN32, PRESS | 302 | 97 | 82 | 35 |
| 51207080401 | 51207080405 | 51207080402 | 51207080406 | REDUCING TEE, DN100-DN40, PRESS | 302 | 108 | 82 | 42.5 |
| 51207080501 | 51207080505 | 51207080502 | 51207080506 | REDUCING TEE, DN100-DN50, PRESS | 302 | 114 | 82 | 48.5 |
| 51207080601 | 51207080605 | 51207080602 | 51207080606 | REDUCING TEE, DN100-DN60, PRESS | 302 | 127 | 82 | 58 |
| 51207081401 | 51207081405 | 51207081402 | 51207081406 | REDUCING TEE, DN100-DN65, PRESS | 302 | 130 | 82 | 60 |
| 51207080701 | 51207080705 | 51207080702 | 51207080706 | REDUCING TEE, DN100-DN80, PRESS | 302 | 137 | 82 | 70 |
| 51207090601 | 51207090605 | 51207090602 | 51207090606 | REDUCING TEE, DN125-DN60, CLAMP-PRESS | 267.5 | 144.5 | | |
| 51207091401 | 51207091405 | 51207091402 | 51207091406 | REDUCING TEE, DN125-DN65, CLAMP-PRESS | 280 | 147.5 | | |
| 51207090701 | 51207090705 | 51207090702 | 51207090706 | REDUCING TEE, DN125-DN80, CLAMP-PRESS | 299 | 153.5 | | |
| 51207090801 | 51207090805 | 51207090802 | 51207090806 | REDUCING TEE, DN125-DN100, CLAMP-PRESS | 313 | 161.5 | | |
| 51207100601 | 51207100605 | 51207100602 | 51207100606 | REDUCING TEE, DN150-DN60, CLAMP-PRESS | 272.5 | 157 | | |
| 51207101401 | 51207101405 | 51207101402 | 51207101406 | REDUCING TEE, DN150-DN65, CLAMP-PRESS | 285 | 159.5 | | |
| 51207100701 | 51207100705 | 51207100702 | 51207100706 | REDUCING TEE, DN150-DN80, CLAMP-PRESS | 298 | 166.5 | | |
| 51207100801 | 51207100805 | 51207100802 | 51207100806 | REDUCING TEE, DN150-DN100, CLAMP-PRESS | 310 | 174.5 | | |
| 50107100903 | 50107100904 | | | REDUCING TEE, DN150-DN125, CLAMP-CLAMP | | | | |
| 51207110601 | 51207110605 | 51207110602 | 51207110606 | REDUCING TEE, DN200-DN60, CLAMP-PRESS | 265 | 187 | 58 | |
| 51207111401 | 51207111405 | 51207111402 | 51207111406 | REDUCING TEE, DN200-DN65, CLAMP-PRESS | 280 | 189.5 | 60 | |
| 51207110701 | 51207110705 | 51207110702 | 51207110706 | REDUCING TEE, DN200-DN80, CLAMP-PRESS | 295 | 196.5 | 70 | |
| 51207110801 | 51207110805 | 51207110802 | 51207110806 | REDUCING TEE, DN200-DN100, CLAMP-PRESS | 310 | 204.5 | 82 | |
| 50107110903 | 50107110904 | | | REDUCING TEE, DN200-DN125, CLAMP-CLAMP | | | | |
| 50107111003 | 50107111004 | | | REDUCING TEE, DN200-DN150, CLAMP-CLAMP | | | | |
| 51207120601 | 51207120605 | 51207120602 | 51207120606 | REDUCING TEE, DN250-DN60, CLAMP-PRESS | 239 | 214 | 58 | |
| 51207121401 | 51207121405 | 51207121402 | 51207121406 | REDUCING TEE, DN250-DN65, CLAMP-PRESS | 281.5 | 216.5 | 60 | |
| 51207120701 | 51207120705 | 51207120702 | 51207120706 | REDUCING TEE, DN250-DN80, CLAMP-PRESS | 294 | 223.5 | 70 | |
| 51207120801 | 51207120805 | 51207120802 | 51207120806 | REDUCING TEE, DN250-DN100, CLAMP-PRESS | 315 | 231.5 | 82 | |
| 50107120903 | 50107120904 | | | REDUCING TEE, DN250-DN125, CLAMP-CLAMP | | | | |
| 50107121003 | 50107121004 | | | REDUCING TEE, DN250-DN150, CLAMP-CLAMP | | | | |
| 50107121103 | 50107121104 | | | REDUCING TEE, DN250-DN200, CLAMP-CLAMP | | | | |

REDUCING TEE



| NBR | | FKM | | Description of products | A | B | C | C1 |
|-------------|-------------|-------------|-------------|--|-------|-------|------|------|
| SS304 | SS316 | SS304 | SS316 | | | | | |
| 51207010003 | 51207010007 | 51207010004 | 51207010008 | REDUCING TEE, DN20-DN15, PRESS | 90 | 47.5 | 24 | 21 |
| 51207020003 | 51207020007 | 51207020004 | 51207020008 | REDUCING TEE, DN25-DN15, PRESS | 108 | 50 | 28 | 21 |
| 51207020103 | 51207020107 | 51207020104 | 51207020108 | REDUCING TEE, DN25-DN20, PRESS | 108 | 58 | 28 | 24 |
| 51207030003 | 51207030007 | 51207030004 | 51207030008 | REDUCING TEE, DN32-DN15, PRESS | 130 | 53.5 | 35 | 21 |
| 51207030103 | 51207030107 | 51207030104 | 51207030108 | REDUCING TEE, DN32-DN20, PRESS | 130 | 61 | 35 | 24 |
| 51207030203 | 51207030207 | 51207030204 | 51207030208 | REDUCING TEE, DN32-DN25, PRESS | 130 | 55 | 35 | 28 |
| 51207040003 | 51207040007 | 51207040004 | 51207040008 | REDUCING TEE, DN40-DN15, PRESS | 164 | 57.5 | 42.5 | 21 |
| 51207040103 | 51207040107 | 51207040104 | 51207040108 | REDUCING TEE, DN40-DN20, PRESS | 164 | 65 | 42.5 | 24 |
| 51207040203 | 51207040207 | 51207040204 | 51207040208 | REDUCING TEE, DN40-DN25, PRESS | 164 | 58 | 42.5 | 28 |
| 51207040303 | 51207040307 | 51207040304 | 51207040308 | REDUCING TEE, DN40-DN32, PRESS | 164 | 65 | 42.5 | 35 |
| 51207050003 | 51207050007 | 51207050004 | 51207050008 | REDUCING TEE, DN50-DN15, PRESS | 187 | 64 | 48.5 | 21 |
| 51207050103 | 51207050107 | 51207050104 | 51207050108 | REDUCING TEE, DN50-DN20, PRESS | 187 | 71 | 48.5 | 24 |
| 51207050203 | 51207050207 | 51207050204 | 51207050208 | REDUCING TEE, DN50-DN25, PRESS | 187 | 64 | 48.5 | 28 |
| 51207050303 | 51207050307 | 51207050304 | 51207050308 | REDUCING TEE, DN50-DN32, PRESS | 187 | 72 | 48.5 | 35 |
| 51207050403 | 51207050407 | 51207050404 | 51207050408 | REDUCING TEE, DN50-DN40, PRESS | 187 | 82 | 48.5 | 42.5 |
| 51207060003 | 51207060007 | 51207060004 | 51207060008 | REDUCING TEE, DN60-DN15, PRESS | 220 | 70 | 58 | 21 |
| 51207060103 | 51207060107 | 51207060104 | 51207060108 | REDUCING TEE, DN60-DN20, PRESS | 220 | 76 | 58 | 24 |
| 51207060203 | 51207060207 | 51207060204 | 51207060208 | REDUCING TEE, DN60-DN25, PRESS | 220 | 71 | 58 | 28 |
| 51207060303 | 51207060307 | 51207060304 | 51207060308 | REDUCING TEE, DN60-DN32, PRESS | 220 | 78 | 58 | 35 |
| 51207060403 | 51207060407 | 51207060404 | 51207060408 | REDUCING TEE, DN60-DN40, PRESS | 220 | 90 | 58 | 42.5 |
| 51207060503 | 51207060507 | 51207060504 | 51207060508 | REDUCING TEE, DN60-DN50, PRESS | 220 | 95 | 58 | 48.5 |
| 51207140003 | 51207140007 | 51207140004 | 51207140008 | REDUCING TEE, DN65-DN15, PRESS | 237 | 77 | 60 | 21 |
| 51207140103 | 51207140107 | 51207140104 | 51207140108 | REDUCING TEE, DN65-DN20, PRESS | 237 | 83 | 60 | 24 |
| 51207140203 | 51207140207 | 51207140204 | 51207140208 | REDUCING TEE, DN65-DN25, PRESS | 237 | 77 | 60 | 28 |
| 51207140303 | 51207140307 | 51207140304 | 51207140308 | REDUCING TEE, DN65-DN32, PRESS | 237 | 85 | 60 | 35 |
| 51207140403 | 51207140407 | 51207140404 | 51207140408 | REDUCING TEE, DN65-DN40, PRESS | 237 | 95 | 60 | 42.8 |
| 51207140503 | 51207140507 | 51207140504 | 51207140508 | REDUCING TEE, DN65-DN50, PRESS | 237 | 102 | 60 | 48.5 |
| 51207140603 | 51207140607 | 51207140604 | 51207140608 | REDUCING TEE, DN65-DN60, PRESS | 237 | 115 | 60 | 58 |
| 51207070103 | 51207070107 | 51207070104 | 51207070108 | REDUCING TEE, DN80-DN20, PRESS | 264 | 89 | 70 | 24 |
| 51207070203 | 51207070207 | 51207070204 | 51207070208 | REDUCING TEE, DN80-DN25, PRESS | 264 | 83.5 | 70 | 28 |
| 51207070303 | 51207070307 | 51207070304 | 51207070308 | REDUCING TEE, DN80-DN32, PRESS | 264 | 91 | 70 | 35 |
| 51207070403 | 51207070407 | 51207070404 | 51207070408 | REDUCING TEE, DN80-DN40, PRESS | 264 | 101.5 | 70 | 42.5 |
| 51207070503 | 51207070507 | 51207070504 | 51207070508 | REDUCING TEE, DN80-DN50, PRESS | 264 | 108 | 70 | 48.5 |
| 51207070603 | 51207070607 | 51207070604 | 51207070608 | REDUCING TEE, DN80-DN60, PRESS | 264 | 121 | 70 | 58 |
| 51207071403 | 51207071407 | 51207071404 | 51207071408 | REDUCING TEE, DN80-DN65, PRESS | 264 | 123.5 | 70 | 60 |
| 51207080103 | 51207080107 | 51207080104 | 51207080108 | REDUCING TEE, DN100-DN20, PRESS | 302 | 95 | 82 | 24 |
| 51207080203 | 51207080207 | 51207080204 | 51207080208 | REDUCING TEE, DN100-DN25, PRESS | 302 | 90 | 82 | 28 |
| 51207080303 | 51207080307 | 51207080304 | 51207080308 | REDUCING TEE, DN100-DN32, PRESS | 302 | 97 | 82 | 35 |
| 51207080403 | 51207080407 | 51207080404 | 51207080408 | REDUCING TEE, DN100-DN40, PRESS | 302 | 108 | 82 | 42.5 |
| 51207080503 | 51207080507 | 51207080504 | 51207080508 | REDUCING TEE, DN100-DN50, PRESS | 302 | 114 | 82 | 48.5 |
| 51207080603 | 51207080607 | 51207080604 | 51207080608 | REDUCING TEE, DN100-DN60, PRESS | 302 | 127 | 82 | 58 |
| 51207081403 | 51207081407 | 51207081404 | 51207081408 | REDUCING TEE, DN100-DN65, PRESS | 302 | 130 | 82 | 60 |
| 51207080703 | 51207080707 | 51207080704 | 51207080708 | REDUCING TEE, DN100-DN80, PRESS | 302 | 137 | 82 | 70 |
| 51207090603 | 51207090607 | 51207090604 | 51207090608 | REDUCING TEE, DN125-DN60, CLAMP-PRESS | 267.5 | 144.5 | | |
| 51207091403 | 51207091407 | 51207091404 | 51207091408 | REDUCING TEE, DN125-DN65, CLAMP-PRESS | 280 | 147.5 | | |
| 51207090703 | 51207090707 | 51207090704 | 51207090708 | REDUCING TEE, DN125-DN80, CLAMP-PRESS | 299 | 153.5 | | |
| 51207090803 | 51207090807 | 51207090804 | 51207090808 | REDUCING TEE, DN125-DN100, CLAMP-PRESS | 313 | 161.5 | | |
| 51207100603 | 51207100607 | 51207100604 | 51207100608 | REDUCING TEE, DN150-DN60, CLAMP-PRESS | 272.5 | 157 | | |
| 51207101403 | 51207101407 | 51207101404 | 51207101408 | REDUCING TEE, DN150-DN65, CLAMP-PRESS | 285 | 159.5 | | |
| 51207100703 | 51207100707 | 51207100704 | 51207100708 | REDUCING TEE, DN150-DN80, CLAMP-PRESS | 298 | 166.5 | | |
| 51207100803 | 51207100807 | 51207100804 | 51207100808 | REDUCING TEE, DN150-DN100, CLAMP-PRESS | 310 | 174.5 | | |
| 51207110603 | 51207110607 | 51207110604 | 51207110608 | REDUCING TEE, DN200-DN60, CLAMP-PRESS | 265 | 187 | 58 | |
| 51207111403 | 51207111407 | 51207111404 | 51207111408 | REDUCING TEE, DN200-DN65, CLAMP-PRESS | 280 | 189.5 | 60 | |
| 51207110703 | 51207110707 | 51207110704 | 51207110708 | REDUCING TEE, DN200-DN80, CLAMP-PRESS | 295 | 196.5 | 70 | |
| 51207110803 | 51207110807 | 51207110804 | 51207110808 | REDUCING TEE, DN200-DN100, CLAMP-PRESS | 310 | 204.5 | 82 | |
| 51207120603 | 51207120607 | 51207120604 | 51207120608 | REDUCING TEE, DN250-DN60, CLAMP-PRESS | 239 | 214 | 58 | |
| 51207121403 | 51207121407 | 51207121404 | 51207121408 | REDUCING TEE, DN250-DN65, CLAMP-PRESS | 281.5 | 216.5 | 60 | |
| 51207120703 | 51207120707 | 51207120704 | 51207120708 | REDUCING TEE, DN250-DN80, CLAMP-PRESS | 294 | 223.5 | 70 | |
| 51207120803 | 51207120807 | 51207120804 | 51207120808 | REDUCING TEE, DN250-DN100, CLAMP-PRESS | 315 | 231.5 | 82 | |

REDUCING PIPE TO PIPE JOINT

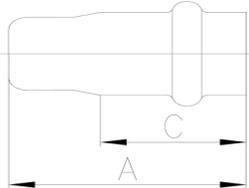


| EPDM | | EPDM (NSF) | | Description of products | A | C | C1 |
|-------------|-------------|-------------|-------------|--|-------|------|------|
| SS304 | SS316 | SS304 | SS316 | | | | |
| 51221010001 | 51221010005 | 51221010002 | 51221010006 | REDUCING PIPE TO PIPE JOINT,DN20-DN15, PRESS | 68.5 | 24 | 21 |
| 51221020001 | 51221020005 | 51221020002 | 51221020006 | REDUCING PIPE TO PIPE JOINT,DN25-DN15, PRESS | 75 | 28 | 21 |
| 51221020101 | 51221020105 | 51221020102 | 51221020106 | REDUCING PIPE TO PIPE JOINT,DN25-DN20, PRESS | 79 | 28 | 24 |
| 51221030001 | 51221030005 | 51221030002 | 51221030006 | REDUCING PIPE TO PIPE JOINT,DN32-DN15, PRESS | 85 | 35 | 21 |
| 51221030101 | 51221030105 | 51221030102 | 51221030106 | REDUCING PIPE TO PIPE JOINT,DN32-DN20, PRESS | 95 | 35 | 24 |
| 51221030201 | 51221030205 | 51221030202 | 51221030206 | REDUCING PIPE TO PIPE JOINT,DN32-DN25, PRESS | 94 | 35 | 28 |
| 51221040001 | 51221040005 | 51221040002 | 51221040006 | REDUCING PIPE TO PIPE JOINT,DN40-DN15, PRESS | 109 | 42.5 | 21 |
| 51221040101 | 51221040105 | 51221040102 | 51221040106 | REDUCING PIPE TO PIPE JOINT,DN40-DN20, PRESS | 112 | 42.5 | 24 |
| 51221040201 | 51221040205 | 51221040202 | 51221040206 | REDUCING PIPE TO PIPE JOINT,DN40-DN25, PRESS | 116.5 | 42.5 | 28 |
| 51221040301 | 51221040305 | 51221040302 | 51221040306 | REDUCING PIPE TO PIPE JOINT,DN40-DN32, PRESS | 114 | 42.5 | 35 |
| 51221050001 | 51221050005 | 51221050002 | 51221050006 | REDUCING PIPE TO PIPE JOINT,DN50-DN15, PRESS | 113.5 | 48.5 | 21 |
| 51221050101 | 51221050105 | 51221050102 | 51221050106 | REDUCING PIPE TO PIPE JOINT,DN50-DN20, PRESS | 117 | 48.5 | 24 |
| 51221050201 | 51221050205 | 51221050202 | 51221050206 | REDUCING PIPE TO PIPE JOINT,DN50-DN25, PRESS | 123.5 | 48.5 | 28 |
| 51221050301 | 51221050305 | 51221050302 | 51221050306 | REDUCING PIPE TO PIPE JOINT,DN50-DN32, PRESS | 131 | 48.5 | 35 |
| 51221050401 | 51221050405 | 51221050402 | 51221050406 | REDUCING PIPE TO PIPE JOINT,DN50-DN40, PRESS | 135 | 48.5 | 42.5 |
| 51221060001 | 51221060005 | 51221060002 | 51221060006 | REDUCING PIPE TO PIPE JOINT,DN60-DN15, PRESS | 180 | 58 | 21 |
| 51221060101 | 51221060105 | 51221060102 | 51221060106 | REDUCING PIPE TO PIPE JOINT,DN60-DN20, PRESS | 182.5 | 58 | 24 |
| 51221060201 | 51221060205 | 51221060202 | 51221060206 | REDUCING PIPE TO PIPE JOINT,DN60-DN25, PRESS | 187 | 58 | 28 |
| 51221060301 | 51221060305 | 51221060302 | 51221060306 | REDUCING PIPE TO PIPE JOINT,DN60-DN32, PRESS | 195.5 | 58 | 35 |
| 51221060401 | 51221060405 | 51221060402 | 51221060406 | REDUCING PIPE TO PIPE JOINT,DN60-DN40, PRESS | 204.5 | 58 | 42.5 |
| 51221060501 | 51221060505 | 51221060502 | 51221060506 | REDUCING PIPE TO PIPE JOINT,DN60-DN50, PRESS | 210 | 58 | 48.5 |
| 51221140101 | 51221140105 | 51221140102 | 51221140106 | REDUCING PIPE TO PIPE JOINT,DN65-DN20, PRESS | 192.5 | 60 | 24 |
| 51221140201 | 51221140205 | 51221140202 | 51221140206 | REDUCING PIPE TO PIPE JOINT,DN65-DN25, PRESS | 200 | 60 | 28 |
| 51221140301 | 51221140305 | 51221140302 | 51221140306 | REDUCING PIPE TO PIPE JOINT,DN65-DN32, PRESS | 207.5 | 60 | 35 |
| 51221140401 | 51221140405 | 51221140402 | 51221140406 | REDUCING PIPE TO PIPE JOINT,DN65-DN40, PRESS | 218 | 60 | 42.5 |
| 51221140501 | 51221140505 | 51221140502 | 51221140506 | REDUCING PIPE TO PIPE JOINT,DN65-DN50, PRESS | 224.5 | 60 | 48.5 |
| 51221140601 | 51221140605 | 51221140602 | 51221140606 | REDUCING PIPE TO PIPE JOINT,DN65-DN60, PRESS | 238 | 60 | 58 |
| 51221070101 | 51221070105 | 51221070102 | 51221070106 | REDUCING PIPE TO PIPE JOINT,DN80-DN20, PRESS | 204.5 | 70 | 24 |
| 51221070201 | 51221070205 | 51221070202 | 51221070206 | REDUCING PIPE TO PIPE JOINT,DN80-DN25, PRESS | 211 | 70 | 28 |
| 51221070301 | 51221070305 | 51221070302 | 51221070306 | REDUCING PIPE TO PIPE JOINT,DN80-DN32, PRESS | 218.5 | 70 | 35 |
| 51221070401 | 51221070405 | 51221070402 | 51221070406 | REDUCING PIPE TO PIPE JOINT,DN80-DN40, PRESS | 229 | 70 | 42.5 |
| 51221070501 | 51221070505 | 51221070502 | 51221070506 | REDUCING PIPE TO PIPE JOINT,DN80-DN50, PRESS | 235.5 | 70 | 48.5 |
| 51221070601 | 51221070605 | 51221070602 | 51221070606 | REDUCING PIPE TO PIPE JOINT,DN80-DN60, PRESS | 249 | 70 | 58 |
| 51221071401 | 51221071405 | 51221071402 | 51221071406 | REDUCING PIPE TO PIPE JOINT,DN80-DN65, PRESS | 252 | 70 | 60 |
| 51221080201 | 51221080205 | 51221080202 | 51221080206 | REDUCING PIPE TO PIPE JOINT,DN100-DN25, PRESS | 234 | 82 | 28 |
| 51221080301 | 51221080305 | 51221080302 | 51221080306 | REDUCING PIPE TO PIPE JOINT,DN100-DN32, PRESS | 241.5 | 82 | 35 |
| 51221080401 | 51221080405 | 51221080402 | 51221080406 | REDUCING PIPE TO PIPE JOINT,DN100-DN40, PRESS | 252 | 82 | 42.5 |
| 51221080501 | 51221080505 | 51221080502 | 51221080506 | REDUCING PIPE TO PIPE JOINT,DN100-DN50, PRESS | 258.5 | 82 | 48.5 |
| 51221080601 | 51221080605 | 51221080602 | 51221080606 | REDUCING PIPE TO PIPE JOINT,DN100-DN60, PRESS | 272 | 82 | 58 |
| 51221081401 | 51221081405 | 51221081402 | 51221081406 | REDUCING PIPE TO PIPE JOINT,DN100-DN65, PRESS | 275 | 82 | 60 |
| 51221080701 | 51221080705 | 51221080702 | 51221080706 | REDUCING PIPE TO PIPE JOINT,DN100-DN80, PRESS | 281 | 82 | 70 |
| 51221090601 | 51221090605 | 51221090602 | 51221090606 | REDUCING PIPE TO PIPE JOINT,DN125-DN60, CLAMP-PRESS | | | |
| 51221091401 | 51221091405 | 51221091402 | 51221091406 | REDUCING PIPE TO PIPE JOINT,DN125-DN65, CLAMP-PRESS | | | |
| 51221090701 | 51221090705 | 51221090702 | 51221090706 | REDUCING PIPE TO PIPE JOINT,DN125-DN80, CLAMP-PRESS | | | |
| 51221090801 | 51221090805 | 51221090802 | 51221090806 | REDUCING PIPE TO PIPE JOINT,DN125-DN100, CLAMP-PRESS | | | |
| 51221100601 | 51221100605 | 51221100602 | 51221100606 | REDUCING PIPE TO PIPE JOINT,DN150-DN60, CLAMP-PRESS | | | |
| 51221101401 | 51221101405 | 51221101402 | 51221101406 | REDUCING PIPE TO PIPE JOINT,DN150-DN65, CLAMP-PRESS | | | |
| 51221100701 | 51221100705 | 51221100702 | 51221100706 | REDUCING PIPE TO PIPE JOINT,DN150-DN80, CLAMP-PRESS | | | |
| 51221100801 | 51221100805 | 51221100802 | 51221100806 | REDUCING PIPE TO PIPE JOINT,DN150-DN100, CLAMP-PRESS | | | |
| 50121100903 | 50121100904 | | | REDUCING PIPE TO PIPE JOINT,DN150-DN125, CLAMP-CLAMP | | | |
| 51221110601 | 51221110605 | 51221110602 | 51221110606 | REDUCING PIPE TO PIPE JOINT,DN200-DN60, CLAMP-PRESS | | | |
| 51221111401 | 51221111405 | 51221111402 | 51221111406 | REDUCING PIPE TO PIPE JOINT,DN200-DN65, CLAMP-PRESS | | | |
| 51221110701 | 51221110705 | 51221110702 | 51221110706 | REDUCING PIPE TO PIPE JOINT,DN200-DN80, CLAMP-PRESS | | | |
| 51221110801 | 51221110805 | 51221110802 | 51221110806 | REDUCING PIPE TO PIPE JOINT,DN200-DN100, CLAMP-PRESS | | | |
| 50121111003 | 50121111004 | | | REDUCING PIPE TO PIPE JOINT,DN200-DN150, CLAMP-CLAMP | | | |
| 51221120601 | 51221120605 | 51221120602 | 51221120606 | REDUCING PIPE TO PIPE JOINT,DN250-DN60, CLAMP-PRESS | | | |
| 51221121401 | 51221121405 | 51221121402 | 51221121406 | REDUCING PIPE TO PIPE JOINT,DN250-DN65, CLAMP-PRESS | | | |
| 51221120701 | 51221120705 | 51221120702 | 51221120706 | REDUCING PIPE TO PIPE JOINT,DN250-DN80, CLAMP-PRESS | | | |
| 51221120801 | 51221120805 | 51221120802 | 51221120806 | REDUCING PIPE TO PIPE JOINT,DN250-DN100, CLAMP-PRESS | | | |
| 50121121003 | 50121121004 | | | REDUCING PIPE TO PIPE JOINT,DN250-DN150, CLAMP-CLAMP | | | |
| 50121121103 | 50121121104 | | | REDUCING PIPE TO PIPE JOINT,DN250-DN200, CLAMP-CLAMP | | | |

REDUCING PIPE TO PIPE JOINT

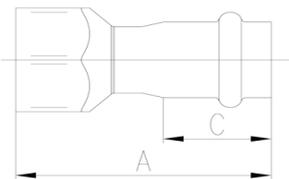


| NBR | | FKM | | Description of products | A | C | C1 |
|-------------|-------------|-------------|-------------|---|-------|------|------|
| SS304 | SS316 | SS304 | SS316 | | | | |
| 51221010003 | 51221010007 | 51221010004 | 51221010008 | REDUCING PIPE TO PIPE JOINT, DN20-DN15, PRESS | 68.5 | 24 | 21 |
| 51221020003 | 51221020007 | 51221020004 | 51221020008 | REDUCING PIPE TO PIPE JOINT, DN25-DN15, PRESS | 75 | 28 | 21 |
| 51221020103 | 51221020107 | 51221020104 | 51221020108 | REDUCING PIPE TO PIPE JOINT, DN25-DN20, PRESS | 79 | 28 | 24 |
| 51221030003 | 51221030007 | 51221030004 | 51221030008 | REDUCING PIPE TO PIPE JOINT, DN32-DN15, PRESS | 85 | 35 | 21 |
| 51221030103 | 51221030107 | 51221030104 | 51221030108 | REDUCING PIPE TO PIPE JOINT, DN32-DN20, PRESS | 95 | 35 | 24 |
| 51221030203 | 51221030207 | 51221030204 | 51221030208 | REDUCING PIPE TO PIPE JOINT, DN32-DN25, PRESS | 94 | 35 | 28 |
| 51221040003 | 51221040007 | 51221040004 | 51221040008 | REDUCING PIPE TO PIPE JOINT, DN40-DN15, PRESS | 109 | 42.5 | 21 |
| 51221040103 | 51221040107 | 51221040104 | 51221040108 | REDUCING PIPE TO PIPE JOINT, DN40-DN20, PRESS | 112 | 42.5 | 24 |
| 51221040203 | 51221040207 | 51221040204 | 51221040208 | REDUCING PIPE TO PIPE JOINT, DN40-DN25, PRESS | 116.5 | 42.5 | 28 |
| 51221040303 | 51221040307 | 51221040304 | 51221040308 | REDUCING PIPE TO PIPE JOINT, DN40-DN32, PRESS | 114 | 42.5 | 35 |
| 51221050003 | 51221050007 | 51221050004 | 51221050008 | REDUCING PIPE TO PIPE JOINT, DN50-DN15, PRESS | 113.5 | 48.5 | 21 |
| 51221050103 | 51221050107 | 51221050104 | 51221050108 | REDUCING PIPE TO PIPE JOINT, DN50-DN20, PRESS | 117 | 48.5 | 24 |
| 51221050203 | 51221050207 | 51221050204 | 51221050208 | REDUCING PIPE TO PIPE JOINT, DN50-DN25, PRESS | 123.5 | 48.5 | 28 |
| 51221050303 | 51221050307 | 51221050304 | 51221050308 | REDUCING PIPE TO PIPE JOINT, DN50-DN32, PRESS | 131 | 48.5 | 35 |
| 51221050403 | 51221050407 | 51221050404 | 51221050408 | REDUCING PIPE TO PIPE JOINT, DN50-DN40, PRESS | 135 | 48.5 | 42.5 |
| 51221060003 | 51221060007 | 51221060004 | 51221060008 | REDUCING PIPE TO PIPE JOINT, DN60-DN15, PRESS | 180 | 58 | 21 |
| 51221060103 | 51221060107 | 51221060104 | 51221060108 | REDUCING PIPE TO PIPE JOINT, DN60-DN20, PRESS | 182.5 | 58 | 24 |
| 51221060203 | 51221060207 | 51221060204 | 51221060208 | REDUCING PIPE TO PIPE JOINT, DN60-DN25, PRESS | 187 | 58 | 28 |
| 51221060303 | 51221060307 | 51221060304 | 51221060308 | REDUCING PIPE TO PIPE JOINT, DN60-DN32, PRESS | 195.5 | 58 | 35 |
| 51221060403 | 51221060407 | 51221060404 | 51221060408 | REDUCING PIPE TO PIPE JOINT, DN60-DN40, PRESS | 204.5 | 58 | 42.5 |
| 51221060503 | 51221060507 | 51221060504 | 51221060508 | REDUCING PIPE TO PIPE JOINT, DN60-DN50, PRESS | 210 | 58 | 48.5 |
| 51221140103 | 51221140107 | 51221140104 | 51221140108 | REDUCING PIPE TO PIPE JOINT, DN65-DN20, PRESS | 192.5 | 60 | 24 |
| 51221140203 | 51221140207 | 51221140204 | 51221140208 | REDUCING PIPE TO PIPE JOINT, DN65-DN25, PRESS | 200 | 60 | 28 |
| 51221140303 | 51221140307 | 51221140304 | 51221140308 | REDUCING PIPE TO PIPE JOINT, DN65-DN32, PRESS | 207.5 | 60 | 35 |
| 51221140403 | 51221140407 | 51221140404 | 51221140408 | REDUCING PIPE TO PIPE JOINT, DN65-DN40, PRESS | 218 | 60 | 42.5 |
| 51221140503 | 51221140507 | 51221140504 | 51221140508 | REDUCING PIPE TO PIPE JOINT, DN65-DN50, PRESS | 224.5 | 60 | 48.5 |
| 51221140603 | 51221140607 | 51221140604 | 51221140608 | REDUCING PIPE TO PIPE JOINT, DN65-DN60, PRESS | 238 | 60 | 58 |
| 51221070103 | 51221070107 | 51221070104 | 51221070108 | REDUCING PIPE TO PIPE JOINT, DN80-DN20, PRESS | 204.5 | 70 | 24 |
| 51221070203 | 51221070207 | 51221070204 | 51221070208 | REDUCING PIPE TO PIPE JOINT, DN80-DN25, PRESS | 211 | 70 | 28 |
| 51221070303 | 51221070307 | 51221070304 | 51221070308 | REDUCING PIPE TO PIPE JOINT, DN80-DN32, PRESS | 218.5 | 70 | 35 |
| 51221070403 | 51221070407 | 51221070404 | 51221070408 | REDUCING PIPE TO PIPE JOINT, DN80-DN40, PRESS | 229 | 70 | 42.5 |
| 51221070503 | 51221070507 | 51221070504 | 51221070508 | REDUCING PIPE TO PIPE JOINT, DN80-DN50, PRESS | 235.5 | 70 | 48.5 |
| 51221070603 | 51221070607 | 51221070604 | 51221070608 | REDUCING PIPE TO PIPE JOINT, DN80-DN60, PRESS | 249 | 70 | 58 |
| 51221071403 | 51221071407 | 51221071404 | 51221071408 | REDUCING PIPE TO PIPE JOINT, DN80-DN65, PRESS | 252 | 70 | 60 |
| 51221080203 | 51221080207 | 51221080204 | 51221080208 | REDUCING PIPE TO PIPE JOINT, DN100-DN25, PRESS | 234 | 82 | 28 |
| 51221080303 | 51221080307 | 51221080304 | 51221080308 | REDUCING PIPE TO PIPE JOINT, DN100-DN32, PRESS | 241.5 | 82 | 35 |
| 51221080403 | 51221080407 | 51221080404 | 51221080408 | REDUCING PIPE TO PIPE JOINT, DN100-DN40, PRESS | 252 | 82 | 42.5 |
| 51221080503 | 51221080507 | 51221080504 | 51221080508 | REDUCING PIPE TO PIPE JOINT, DN100-DN50, PRESS | 258.5 | 82 | 48.5 |
| 51221080603 | 51221080607 | 51221080604 | 51221080608 | REDUCING PIPE TO PIPE JOINT, DN100-DN60, PRESS | 272 | 82 | 58 |
| 51221081403 | 51221081407 | 51221081404 | 51221081408 | REDUCING PIPE TO PIPE JOINT, DN100-DN65, PRESS | 275 | 82 | 60 |
| 51221080703 | 51221080707 | 51221080704 | 51221080708 | REDUCING PIPE TO PIPE JOINT, DN100-DN80, PRESS | 281 | 82 | 70 |
| 51221090603 | 51221090607 | 51221090604 | 51221090608 | REDUCING PIPE TO PIPE JOINT, DN125-DN60, CLAMP-PRESS | | | |
| 51221091403 | 51221091407 | 51221091404 | 51221091408 | REDUCING PIPE TO PIPE JOINT, DN125-DN65, CLAMP-PRESS | | | |
| 51221090703 | 51221090707 | 51221090704 | 51221090708 | REDUCING PIPE TO PIPE JOINT, DN125-DN80, CLAMP-PRESS | | | |
| 51221090803 | 51221090807 | 51221090804 | 51221090808 | REDUCING PIPE TO PIPE JOINT, DN125-DN100, CLAMP-PRESS | | | |
| 51221100603 | 51221100607 | 51221100604 | 51221100608 | REDUCING PIPE TO PIPE JOINT, DN150-DN60, CLAMP-PRESS | | | |
| 51221101403 | 51221101407 | 51221101404 | 51221101408 | REDUCING PIPE TO PIPE JOINT, DN150-DN65, CLAMP-PRESS | | | |
| 51221100703 | 51221100707 | 51221100704 | 51221100708 | REDUCING PIPE TO PIPE JOINT, DN150-DN80, CLAMP-PRESS | | | |
| 51221100803 | 51221100807 | 51221100804 | 51221100808 | REDUCING PIPE TO PIPE JOINT, DN150-DN100, CLAMP-PRESS | | | |
| 51221110603 | 51221110607 | 51221110604 | 51221110608 | REDUCING PIPE TO PIPE JOINT, DN200-DN60, CLAMP-PRESS | | | |
| 51221111403 | 51221111407 | 51221111404 | 51221111408 | REDUCING PIPE TO PIPE JOINT, DN200-DN65, CLAMP-PRESS | | | |
| 51221110703 | 51221110707 | 51221110704 | 51221110708 | REDUCING PIPE TO PIPE JOINT, DN200-DN80, CLAMP-PRESS | | | |
| 51221110803 | 51221110807 | 51221110804 | 51221110808 | REDUCING PIPE TO PIPE JOINT, DN200-DN100, CLAMP-PRESS | | | |
| 51221120603 | 51221120607 | 51221120604 | 51221120608 | REDUCING PIPE TO PIPE JOINT, DN250-DN60, CLAMP-PRESS | | | |
| 51221121403 | 51221121407 | 51221121404 | 51221121408 | REDUCING PIPE TO PIPE JOINT, DN250-DN65, CLAMP-PRESS | | | |
| 51221120703 | 51221120707 | 51221120704 | 51221120708 | REDUCING PIPE TO PIPE JOINT, DN250-DN80, CLAMP-PRESS | | | |
| 51221120803 | 51221120807 | 51221120804 | 51221120808 | REDUCING PIPE TO PIPE JOINT, DN250-DN100, CLAMP-PRESS | | | |

END CAP


| EPDM | | EPDM (NSF) | | Description of products | A | C |
|-------------|-------------|-------------|-------------|-------------------------|-----|------|
| SS304 | SS316 | SS304 | SS316 | | | |
| 5120600001 | 5120600005 | 5120600002 | 5120600006 | END CAP, DN15, PRESS | 36 | 21 |
| 51206010001 | 51206010005 | 51206010002 | 51206010006 | END CAP, DN20, PRESS | 40 | 24 |
| 51206020001 | 51206020005 | 51206020002 | 51206020006 | END CAP, DN25, PRESS | 44 | 28 |
| 51206030001 | 51206030005 | 51206030002 | 51206030006 | END CAP, DN32, PRESS | 60 | 35 |
| 51206040001 | 51206040005 | 51206040002 | 51206040006 | END CAP, DN40, PRESS | 70 | 42.5 |
| 51206050001 | 51206050005 | 51206050002 | 51206050006 | END CAP, DN50, PRESS | 75 | 48.5 |
| 51206060001 | 51206060005 | 51206060002 | 51206060006 | END CAP, DN60, PRESS | 97 | 58 |
| 51206140001 | 51206140005 | 51206140002 | 51206140006 | END CAP, DN65, PRESS | 108 | 60 |
| 51206070001 | 51206070005 | 51206070002 | 51206070006 | END CAP, DN80, PRESS | 114 | 70 |
| 51206080001 | 51206080005 | 51206080002 | 51206080006 | END CAP, DN100, PRESS | 131 | 82 |
| 50106090003 | 50106090004 | | | END CAP, DN125, CLAMP | | |
| 50106100003 | 50106100004 | | | END CAP, DN150, CLAMP | | |
| 50106110003 | 50106110004 | | | END CAP, DN200, CLAMP | | |
| 50106120003 | 50106120004 | | | END CAP, DN250, CLAMP | | |

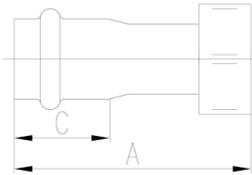
| NBR | | FKM | | Description of products | A | C |
|-------------|-------------|-------------|-------------|-------------------------|-----|------|
| SS304 | SS316 | SS304 | SS316 | | | |
| 51206000003 | 51206000007 | 51206000004 | 51206000008 | END CAP, DN15, PRESS | 36 | 21 |
| 51206010003 | 51206010007 | 51206010004 | 51206010008 | END CAP, DN20, PRESS | 40 | 24 |
| 51206020003 | 51206020007 | 51206020004 | 51206020008 | END CAP, DN25, PRESS | 44 | 28 |
| 51206030003 | 51206030007 | 51206030004 | 51206030008 | END CAP, DN32, PRESS | 60 | 35 |
| 51206040003 | 51206040007 | 51206040004 | 51206040008 | END CAP, DN40, PRESS | 70 | 42.5 |
| 51206050003 | 51206050007 | 51206050004 | 51206050008 | END CAP, DN50, PRESS | 75 | 48.5 |
| 51206060003 | 51206060007 | 51206060004 | 51206060008 | END CAP, DN60, PRESS | 97 | 58 |
| 51206140003 | 51206140007 | 51206140004 | 51206140008 | END CAP, DN65, PRESS | 108 | 60 |
| 51206070003 | 51206070007 | 51206070004 | 51206070008 | END CAP, DN80, PRESS | 114 | 70 |
| 51206080003 | 51206080007 | 51206080004 | 51206080008 | END CAP, DN100, PRESS | 131 | 82 |

THREAD JOINT FEMALE (BSP)


| EPDM | | EPDM (NSF) | | Description of products | A | C |
|-------------|-------------|-------------|-------------|--------------------------------------|-------|------|
| SS304 | SS316 | SS304 | SS316 | | | |
| 51219000001 | 51219000005 | 51219000002 | 51219000006 | THREAD JOINT,PRESS DN15-1/2 FEMALE | 50 | 21 |
| 51219000101 | 51219000105 | 51219000102 | 51219000106 | THREAD JOINT,PRESS DN15-3/4 FEMALE | 51.5 | 21 |
| 51219010001 | 51219010005 | 51219010002 | 51219010006 | THREAD JOINT,PRESS DN20-1/2 FEMALE | 50.5 | 24 |
| 51219010101 | 51219010105 | 51219010102 | 51219010106 | THREAD JOINT,PRESS DN20-3/4 FEMALE | 54 | 24 |
| 51219010201 | 51219010205 | 51219010202 | 51219010206 | THREAD JOINT,PRESS DN20-1 FEMALE | 57 | 24 |
| 51219020001 | 51219020005 | 51219020002 | 51219020006 | THREAD JOINT,PRESS DN25-1/2 FEMALE | 63.5 | 28 |
| 51219020101 | 51219020105 | 51219020102 | 51219020106 | THREAD JOINT,PRESS DN25-3/4 FEMALE | 61.5 | 28 |
| 51219020201 | 51219020205 | 51219020202 | 51219020206 | THREAD JOINT,PRESS DN25-1 FEMALE | 65.5 | 28 |
| 51219020301 | 51219020305 | 51219020302 | 51219020306 | THREAD JOINT,PRESS DN25-1 1/4 FEMALE | 70 | 28 |
| 51219030201 | 51219030205 | 51219030202 | 51219030206 | THREAD JOINT,PRESS DN32-1 FEMALE | 74.5 | 35 |
| 51219030301 | 51219030305 | 51219030302 | 51219030306 | THREAD JOINT,PRESS DN32-1 1/4 FEMALE | 76.5 | 35 |
| 51219030401 | 51219030405 | 51219030402 | 51219030406 | THREAD JOINT,PRESS DN32-1 1/2 FEMALE | 79.5 | 35 |
| 51219040301 | 51219040305 | 51219040302 | 51219040306 | THREAD JOINT,PRESS DN40-1 1/4 FEMALE | 87 | 42.5 |
| 51219040401 | 51219040405 | 51219040402 | 51219040406 | THREAD JOINT,PRESS DN40-1 1/2 FEMALE | 89 | 42.5 |
| 51219050401 | 51219050405 | 51219050402 | 51219050406 | THREAD JOINT,PRESS DN50-1 1/2 FEMALE | 99.5 | 48.5 |
| 51219050501 | 51219050505 | 51219050502 | 51219050506 | THREAD JOINT,PRESS DN50-2 FEMALE | 101.5 | 48.5 |
| 51219060601 | 51219060605 | 51219060602 | 51219060606 | THREAD JOINT,PRESS DN60-2 1/2 FEMALE | 112 | 58 |
| 51219140601 | 51219140605 | 51219140602 | 51219140606 | THREAD JOINT,PRESS DN65-2 1/2 FEMALE | 115 | 60 |
| 51219070701 | 51219070705 | 51219070702 | 51219070706 | THREAD JOINT,PRESS DN80-3 FEMALE | 126 | 70 |

| NBR | | FKM | | Description of products | A | C |
|-------------|-------------|-------------|-------------|--------------------------------------|-------|------|
| SS304 | SS316 | SS304 | SS316 | | | |
| 51219000003 | 51219000007 | 51219000004 | 51219000008 | THREAD JOINT,PRESS DN15-1/2 FEMALE | 50 | 21 |
| 51219000103 | 51219000107 | 51219000104 | 51219000108 | THREAD JOINT,PRESS DN15-3/4 FEMALE | 51.5 | 21 |
| 51219010003 | 51219010007 | 51219010004 | 51219010008 | THREAD JOINT,PRESS DN20-1/2 FEMALE | 50.5 | 24 |
| 51219010103 | 51219010107 | 51219010104 | 51219010108 | THREAD JOINT,PRESS DN20-3/4 FEMALE | 54 | 24 |
| 51219010203 | 51219010207 | 51219010204 | 51219010208 | THREAD JOINT,PRESS DN20-1 FEMALE | 57 | 24 |
| 51219020003 | 51219020007 | 51219020004 | 51219020008 | THREAD JOINT,PRESS DN25-1/2 FEMALE | 63.5 | 28 |
| 51219020103 | 51219020107 | 51219020104 | 51219020108 | THREAD JOINT,PRESS DN25-3/4 FEMALE | 61.5 | 28 |
| 51219020203 | 51219020207 | 51219020204 | 51219020208 | THREAD JOINT,PRESS DN25-1 FEMALE | 65.5 | 28 |
| 51219020303 | 51219020307 | 51219020304 | 51219020308 | THREAD JOINT,PRESS DN25-1 1/4 FEMALE | 70 | 28 |
| 51219030203 | 51219030207 | 51219030204 | 51219030208 | THREAD JOINT,PRESS DN32-1 FEMALE | 74.5 | 35 |
| 51219030303 | 51219030307 | 51219030304 | 51219030308 | THREAD JOINT,PRESS DN32-1 1/4 FEMALE | 76.5 | 35 |
| 51219030403 | 51219030407 | 51219030404 | 51219030408 | THREAD JOINT,PRESS DN32-1 1/2 FEMALE | 79.5 | 35 |
| 51219040303 | 51219040307 | 51219040304 | 51219040308 | THREAD JOINT,PRESS DN40-1 1/4 FEMALE | 87 | 42.5 |
| 51219040403 | 51219040407 | 51219040404 | 51219040408 | THREAD JOINT,PRESS DN40-1 1/2 FEMALE | 89 | 42.5 |
| 51219050403 | 51219050407 | 51219050404 | 51219050408 | THREAD JOINT,PRESS DN50-1 1/2 FEMALE | 99.5 | 48.5 |
| 51219050503 | 51219050507 | 51219050504 | 51219050508 | THREAD JOINT,PRESS DN50-2 FEMALE | 101.5 | 48.5 |
| 51219060603 | 51219060607 | 51219060604 | 51219060608 | THREAD JOINT,PRESS DN60-2 1/2 FEMALE | 112 | 58 |
| 51219140603 | 51219140607 | 51219140604 | 51219140608 | THREAD JOINT,PRESS DN65-2 1/2 FEMALE | 115 | 60 |
| 51219070703 | 51219070707 | 51219070704 | 51219070708 | THREAD JOINT,PRESS DN80-3 FEMALE | 126 | 70 |

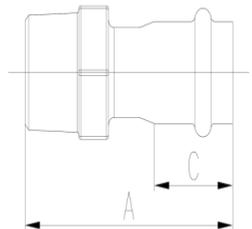
UNION FEMALE (BSP)



| EPDM | | EPDM (NSF) | | Description of products | A | C |
|-------------|-------------|-------------|-------------|--------------------------------------|------|------|
| SS304 | SS316 | SS304 | SS316 | | | |
| 5125000001 | 5125000005 | 5125000002 | 5125000006 | UNION FEMALE,PRESS DN15-1/2 FEMALE | 52.5 | 21 |
| 51250010101 | 51250010105 | 51250010102 | 51250010106 | UNION FEMALE,PRESS DN20-3/4 FEMALE | 56 | 24 |
| 51250020201 | 51250020205 | 51250020202 | 51250020206 | UNION FEMALE,PRESS DN25-1 FEMALE | 64.5 | 28 |
| 51250030301 | 51250030305 | 51250030302 | 51250030306 | UNION FEMALE,PRESS DN32-1 1/4 FEMALE | 77 | 35 |
| 51250040401 | 51250040405 | 51250040402 | 51250040406 | UNION FEMALE,PRESS DN40-1 1/2 FEMALE | 87 | 42.5 |
| 51250050501 | 51250050505 | 51250050502 | 51250050506 | UNION FEMALE,PRESS DN50-2 FEMALE | 96 | 48.5 |

| NBR | | FKM | | Description of products | A | C |
|-------------|-------------|-------------|-------------|--------------------------------------|------|------|
| SS304 | SS316 | SS304 | SS316 | | | |
| 51250000003 | 51250000007 | 51250000004 | 51250000008 | UNION FEMALE,PRESS DN15-1/2 FEMALE | 52.5 | 21 |
| 51250010103 | 51250010107 | 51250010104 | 51250010108 | UNION FEMALE,PRESS DN20-3/4 FEMALE | 56 | 24 |
| 51250020203 | 51250020207 | 51250020204 | 51250020208 | UNION FEMALE,PRESS DN25-1 FEMALE | 64.5 | 28 |
| 51250030303 | 51250030307 | 51250030304 | 51250030308 | UNION FEMALE,PRESS DN32-1 1/4 FEMALE | 77 | 35 |
| 51250040403 | 51250040407 | 51250040404 | 51250040408 | UNION FEMALE,PRESS DN40-1 1/2 FEMALE | 87 | 42.5 |
| 51250050503 | 51250050507 | 51250050504 | 51250050508 | UNION FEMALE,PRESS DN50-2 FEMALE | 96 | 48.5 |

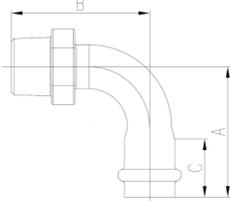
THREAD JOINT MALE (BSP)



| EPDM | | EPDM (NSF) | | Description of products | A | C |
|-------------|-------------|-------------|-------------|------------------------------------|-------|------|
| SS304 | SS316 | SS304 | SS316 | | | |
| 51217000001 | 51217000005 | 51217000002 | 51217000006 | THREAD JOINT,PRESS DN15-1/2 MALE | 56 | 21 |
| 51217000101 | 51217000105 | 51217000102 | 51217000106 | THREAD JOINT,PRESS DN15-3/4 MALE | 57.5 | 21 |
| 51217010001 | 51217010005 | 51217010002 | 51217010006 | THREAD JOINT,PRESS DN20-1/2 MALE | 58.5 | 24 |
| 51217010101 | 51217010105 | 51217010102 | 51217010106 | THREAD JOINT,PRESS DN20-3/4 MALE | 61 | 24 |
| 51217010201 | 51217010205 | 51217010202 | 51217010206 | THREAD JOINT,PRESS DN20-1 MALE | 65.5 | 24 |
| 51217020001 | 51217020005 | 51217020002 | 51217020006 | THREAD JOINT,PRESS DN25-1/2 MALE | 72 | 28 |
| 51217020101 | 51217020105 | 51217020102 | 51217020106 | THREAD JOINT,PRESS DN25-3/4 MALE | 66.5 | 28 |
| 51217020201 | 51217020205 | 51217020202 | 51217020206 | THREAD JOINT,PRESS DN25-1 MALE | 72 | 28 |
| 51217020301 | 51217020305 | 51217020302 | 51217020306 | THREAD JOINT,PRESS DN25-1 1/4 MALE | 79 | 28 |
| 51217030201 | 51217030205 | 51217030202 | 51217030206 | THREAD JOINT,PRESS DN32-1 MALE | 85 | 35 |
| 51217030301 | 51217030305 | 51217030302 | 51217030306 | THREAD JOINT,PRESS DN32-1 1/4 MALE | 96 | 35 |
| 51217030401 | 51217030405 | 51217030402 | 51217030406 | THREAD JOINT,PRESS DN32-1 1/2 MALE | 100 | 35 |
| 51217040301 | 51217040305 | 51217040302 | 51217040306 | THREAD JOINT,PRESS DN40-1 1/4 MALE | 99 | 42.5 |
| 51217040401 | 51217040405 | 51217040402 | 51217040406 | THREAD JOINT,PRESS DN40-1 1/2 MALE | 107 | 42.5 |
| 51217050401 | 51217050405 | 51217050402 | 51217050406 | THREAD JOINT,PRESS DN50-1 1/2 MALE | 99.5 | 48.5 |
| 51217050501 | 51217050505 | 51217050502 | 51217050506 | THREAD JOINT,PRESS DN50-2 MALE | 121.5 | 48.5 |
| 51217060601 | 51217060605 | 51217060602 | 51217060606 | THREAD JOINT,PRESS DN60-2 1/2 MALE | 122 | 58 |
| 51217140601 | 51217140605 | 51217140602 | 51217140606 | THREAD JOINT,PRESS DN65-2 1/2 MALE | 125 | 60 |
| 51217070701 | 51217070705 | 51217070702 | 51217070706 | THREAD JOINT,PRESS DN80-3 MALE | 134 | 70 |

| NBR | | FKM | | Description of products | A | C |
|-------------|-------------|-------------|-------------|------------------------------------|-------|------|
| SS304 | SS316 | SS304 | SS316 | | | |
| 51217000003 | 51217000007 | 51217000004 | 51217000008 | THREAD JOINT,PRESS DN15-1/2 MALE | 56 | 21 |
| 51217000103 | 51217000107 | 51217000104 | 51217000108 | THREAD JOINT,PRESS DN15-3/4 MALE | 57.5 | 21 |
| 51217010003 | 51217010007 | 51217010004 | 51217010008 | THREAD JOINT,PRESS DN20-1/2 MALE | 58.5 | 24 |
| 51217010103 | 51217010107 | 51217010104 | 51217010108 | THREAD JOINT,PRESS DN20-3/4 MALE | 61 | 24 |
| 51217010203 | 51217010207 | 51217010204 | 51217010208 | THREAD JOINT,PRESS DN20-1 MALE | 65.5 | 24 |
| 51217020003 | 51217020007 | 51217020004 | 51217020008 | THREAD JOINT,PRESS DN25-1/2 MALE | 72 | 28 |
| 51217020103 | 51217020107 | 51217020104 | 51217020108 | THREAD JOINT,PRESS DN25-3/4 MALE | 66.5 | 28 |
| 51217020203 | 51217020207 | 51217020204 | 51217020208 | THREAD JOINT,PRESS DN25-1 MALE | 72 | 28 |
| 51217020303 | 51217020307 | 51217020304 | 51217020308 | THREAD JOINT,PRESS DN25-1 1/4 MALE | 79 | 28 |
| 51217030203 | 51217030207 | 51217030204 | 51217030208 | THREAD JOINT,PRESS DN32-1 MALE | 85 | 35 |
| 51217030303 | 51217030307 | 51217030304 | 51217030308 | THREAD JOINT,PRESS DN32-1 1/4 MALE | 96 | 35 |
| 51217030403 | 51217030407 | 51217030404 | 51217030408 | THREAD JOINT,PRESS DN32-1 1/2 MALE | 100 | 35 |
| 51217040303 | 51217040307 | 51217040304 | 51217040308 | THREAD JOINT,PRESS DN40-1 1/4 MALE | 99 | 42.5 |
| 51217040403 | 51217040407 | 51217040404 | 51217040408 | THREAD JOINT,PRESS DN40-1 1/2 MALE | 107 | 42.5 |
| 51217050403 | 51217050407 | 51217050404 | 51217050408 | THREAD JOINT,PRESS DN50-1 1/2 MALE | 99.5 | 48.5 |
| 51217050503 | 51217050507 | 51217050504 | 51217050508 | THREAD JOINT,PRESS DN50-2 MALE | 121.5 | 48.5 |
| 51217060603 | 51217060607 | 51217060604 | 51217060608 | THREAD JOINT,PRESS DN60-2 1/2 MALE | 122 | 58 |
| 51217140603 | 51217140607 | 51217140604 | 51217140608 | THREAD JOINT,PRESS DN65-2 1/2 MALE | 125 | 60 |
| 51217070703 | 51217070707 | 51217070704 | 51217070708 | THREAD JOINT,PRESS DN80-3 MALE | 134 | 70 |

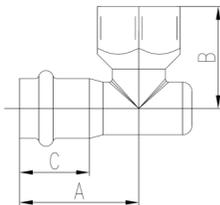
90° ELBOW MALE (BSP)



| EPDM | | EPDM (NSF) | | Description of products | A | B | C |
|------------|------------|------------|------------|----------------------------------|-------|------|------|
| SS304 | SS316 | SS304 | SS316 | | | | |
| 5121500001 | 5121500005 | 5121500002 | 5121500006 | 90° ELBOW, PRESS DN15-1/2 MALE | 47.5 | 50 | 21 |
| 5121501001 | 5121501005 | 5121501002 | 5121501006 | 90° ELBOW, PRESS DN20-1/2 MALE | 59 | 55 | 24 |
| 5121501011 | 5121501015 | 5121501012 | 5121501016 | 90° ELBOW, PRESS DN20-3/4 MALE | 59 | 56.5 | 24 |
| 5121502011 | 5121502015 | 5121502012 | 5121502016 | 90° ELBOW, PRESS DN25-3/4 MALE | 71.5 | 64 | 28 |
| 5121502021 | 5121502025 | 5121502022 | 5121502026 | 90° ELBOW, PRESS DN25-1 MALE | 71.5 | 69.5 | 28 |
| 5121503021 | 5121503025 | 5121503022 | 5121503026 | 90° ELBOW, PRESS DN32-1 MALE | 84 | 77 | 35 |
| 5121503031 | 5121503035 | 5121503032 | 5121503036 | 90° ELBOW, PRESS DN32-1 1/4 MALE | 84 | 83 | 35 |
| 5121504031 | 5121504035 | 5121504032 | 5121504036 | 90° ELBOW, PRESS DN40-1 1/4 MALE | 107 | 96 | 42.5 |
| 5121504041 | 5121504045 | 5121504042 | 5121504046 | 90° ELBOW, PRESS DN40-1 1/2 MALE | 107 | 98 | 42.5 |
| 5121505041 | 5121505045 | 5121505042 | 5121505046 | 90° ELBOW, PRESS DN50-1 1/2 MALE | 129.5 | 114 | 48.5 |
| 5121505051 | 5121505055 | 5121505052 | 5121505056 | 90° ELBOW, PRESS DN50-2 MALE | 129.5 | 119 | 48.5 |

| NBR | | FKM | | Description of products | A | B | C |
|------------|------------|------------|------------|----------------------------------|-------|------|------|
| SS304 | SS316 | SS304 | SS316 | | | | |
| 5121500003 | 5121500007 | 5121500004 | 5121500008 | 90° ELBOW, PRESS DN15-1/2 MALE | 47.5 | 50 | 21 |
| 5121501003 | 5121501007 | 5121501004 | 5121501008 | 90° ELBOW, PRESS DN20-1/2 MALE | 59 | 55 | 24 |
| 5121501013 | 5121501017 | 5121501014 | 5121501018 | 90° ELBOW, PRESS DN20-3/4 MALE | 59 | 56.5 | 24 |
| 5121502013 | 5121502017 | 5121502014 | 5121502018 | 90° ELBOW, PRESS DN25-3/4 MALE | 71.5 | 64 | 28 |
| 5121502023 | 5121502027 | 5121502024 | 5121502028 | 90° ELBOW, PRESS DN25-1 MALE | 71.5 | 69.5 | 28 |
| 5121503023 | 5121503027 | 5121503024 | 5121503028 | 90° ELBOW, PRESS DN32-1 MALE | 84 | 77 | 35 |
| 5121503033 | 5121503037 | 5121503034 | 5121503038 | 90° ELBOW, PRESS DN32-1 1/4 MALE | 84 | 83 | 35 |
| 5121504033 | 5121504037 | 5121504034 | 5121504038 | 90° ELBOW, PRESS DN40-1 1/4 MALE | 107 | 96 | 42.5 |
| 5121504043 | 5121504047 | 5121504044 | 5121504048 | 90° ELBOW, PRESS DN40-1 1/2 MALE | 107 | 98 | 42.5 |
| 5121505043 | 5121505047 | 5121505044 | 5121505048 | 90° ELBOW, PRESS DN50-1 1/2 MALE | 129.5 | 114 | 48.5 |
| 5121505053 | 5121505057 | 5121505054 | 5121505058 | 90° ELBOW, PRESS DN50-2 MALE | 129.5 | 119 | 48.5 |

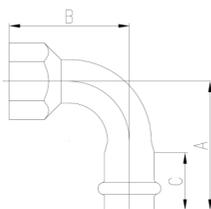
SHORT 90° ELBOW FEMALE (BSP)



| EPDM | | EPDM (NSF) | | Description of products | A | B | C |
|------------|------------|------------|------------|-------------------------------------|------|------|----|
| SS304 | SS316 | SS304 | SS316 | | | | |
| 5126900001 | 5126900005 | 5126900002 | 5126900006 | SHORT ELBOW,PRESS DN15-1/2 FEMALE | 36 | 31 | 21 |
| 5126901001 | 5126901005 | 5126901002 | 5126901006 | SHORT ELBOW,PRESS DN20-1/2 FEMALE | 39.5 | 33 | 24 |
| 5126901011 | 5126901015 | 5126901012 | 5126901016 | SHORT ELBOW,PRESS DN20-3/4 FEMALE | 41.5 | 34.5 | 24 |
| 5126902011 | 5126902015 | 5126902012 | 5126902016 | SHORT ELBOW,PRESS DN25-3/4 FEMALE | 51 | 37 | 28 |
| 5126902021 | 5126902025 | 5126902022 | 5126902026 | SHORT ELBOW,PRESS DN25-1 FEMALE | 51 | 40 | 28 |
| 5126903021 | 5126903025 | 5126903022 | 5126903026 | SHORT ELBOW,PRESS DN32-1 FEMALE | 61.5 | 43 | 35 |
| 5126903031 | 5126903035 | 5126903032 | 5126903036 | SHORT ELBOW,PRESS DN32-1 1/4 FEMALE | 61.5 | 49 | 35 |

| NBR | | FKM | | Description of products | A | B | C |
|------------|------------|------------|------------|-------------------------------------|------|------|----|
| SS304 | SS316 | SS304 | SS316 | | | | |
| 5126900003 | 5126900007 | 5126900004 | 5126900008 | SHORT ELBOW,PRESS DN15-1/2 FEMALE | 36 | 31 | 21 |
| 5126901003 | 5126901007 | 5126901004 | 5126901008 | SHORT ELBOW,PRESS DN20-1/2 FEMALE | 39.5 | 33 | 24 |
| 5126901013 | 5126901017 | 5126901014 | 5126901018 | SHORT ELBOW,PRESS DN20-3/4 FEMALE | 41.5 | 34.5 | 24 |
| 5126902013 | 5126902017 | 5126902014 | 5126902018 | SHORT ELBOW,PRESS DN25-3/4 FEMALE | 51 | 37 | 28 |
| 5126902023 | 5126902027 | 5126902024 | 5126902028 | SHORT ELBOW,PRESS DN25-1 FEMALE | 51 | 40 | 28 |
| 5126903023 | 5126903027 | 5126903024 | 5126903028 | SHORT ELBOW,PRESS DN32-1 FEMALE | 61.5 | 43 | 35 |
| 5126903033 | 5126903037 | 5126903034 | 5126903038 | SHORT ELBOW,PRESS DN32-1 1/4 FEMALE | 61.5 | 49 | 35 |

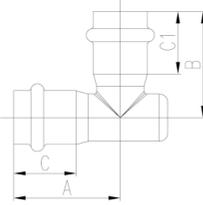
90° ELBOW FEMALE (BSP)



| EPDM | | EPDM (NSF) | | Description of products | A | B | C |
|------------|------------|------------|------------|------------------------------------|-------|------|------|
| SS304 | SS316 | SS304 | SS316 | | | | |
| 5121300001 | 5121300005 | 5121300002 | 5121300006 | 90° ELBOW, PRESS DN15-1/2 FEMALE | 47.5 | 44 | 21 |
| 5121301001 | 5121301005 | 5121301002 | 5121301006 | 90° ELBOW, PRESS DN20-1/2 FEMALE | 59 | 47 | 24 |
| 5121301011 | 5121301015 | 5121301012 | 5121301016 | 90° ELBOW, PRESS DN20-3/4 FEMALE | 59 | 50.5 | 24 |
| 5121302011 | 5121302015 | 5121302012 | 5121302016 | 90° ELBOW, PRESS DN25-3/4 FEMALE | 71.5 | 56.5 | 28 |
| 5121302021 | 5121302025 | 5121302022 | 5121302026 | 90° ELBOW, PRESS DN25-1 FEMALE | 71.5 | 60.5 | 28 |
| 5121303021 | 5121303025 | 5121303022 | 5121303026 | 90° ELBOW, PRESS DN32-1 FEMALE | 84 | 73 | 35 |
| 5121303031 | 5121303035 | 5121303032 | 5121303036 | 90° ELBOW, PRESS DN32-1 1/4 FEMALE | 84 | 75 | 35 |
| 5121304041 | 5121304045 | 5121304042 | 5121304046 | 90° ELBOW, PRESS DN40-1 1/2 FEMALE | 107 | 90 | 42.5 |
| 5121305051 | 5121305055 | 5121305052 | 5121305056 | 90° ELBOW, PRESS DN50-2 FEMALE | 129.5 | 114 | 48.5 |

| NBR | | FKM | | Description of products | A | B | C |
|------------|------------|------------|------------|------------------------------------|-------|------|------|
| SS304 | SS316 | SS304 | SS316 | | | | |
| 5121300003 | 5121300007 | 5121300004 | 5121300008 | 90° ELBOW, PRESS DN15-1/2 FEMALE | 47.5 | 44 | 21 |
| 5121301003 | 5121301007 | 5121301004 | 5121301008 | 90° ELBOW, PRESS DN20-1/2 FEMALE | 59 | 47 | 24 |
| 5121301013 | 5121301017 | 5121301014 | 5121301018 | 90° ELBOW, PRESS DN20-3/4 FEMALE | 59 | 50.5 | 24 |
| 5121302013 | 5121302017 | 5121302014 | 5121302018 | 90° ELBOW, PRESS DN25-3/4 FEMALE | 71.5 | 56.5 | 28 |
| 5121302023 | 5121302027 | 5121302024 | 5121302028 | 90° ELBOW, PRESS DN25-1 FEMALE | 71.5 | 60.5 | 28 |
| 5121303023 | 5121303027 | 5121303024 | 5121303028 | 90° ELBOW, PRESS DN32-1 FEMALE | 84 | 73 | 35 |
| 5121303033 | 5121303037 | 5121303034 | 5121303038 | 90° ELBOW, PRESS DN32-1 1/4 FEMALE | 84 | 75 | 35 |
| 5121304043 | 5121304047 | 5121304044 | 5121304048 | 90° ELBOW, PRESS DN40-1 1/2 FEMALE | 107 | 90 | 42.5 |
| 5121305053 | 5121305057 | 5121305054 | 5121305058 | 90° ELBOW, PRESS DN50-2 FEMALE | 129.5 | 114 | 48.5 |

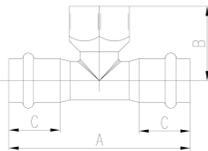
SHORT ELBOW



| EPDM | | EPDM (NSF) | | Description of products | A | B | C | C1 |
|-------------|-------------|-------------|-------------|--------------------------------|------|------|----|----|
| SS304 | SS316 | SS304 | SS316 | | | | | |
| 5126300001 | 5126300005 | 5126300002 | 5126300006 | SHORT ELBOW, DN15, PRESS SHORT | 36 | 36 | 21 | 21 |
| 51263010001 | 51263010005 | 51263010002 | 51263010006 | ELBOW, DN20-DN15, PRESS SHORT | 41.5 | 41.5 | 24 | 24 |
| 51263010101 | 51263010105 | 51263010102 | 51263010106 | ELBOW, DN20, PRESS SHORT | 41.5 | 39 | 24 | 21 |
| 51263020101 | 51263020105 | 51263020102 | 51263020106 | ELBOW, DN25-DN20, PRESS SHORT | 51 | 51 | 28 | 28 |
| 51263020201 | 51263020205 | 51263020202 | 51263020206 | ELBOW, DN25, PRESS SHORT | 51 | 44 | 28 | 24 |
| 51263030201 | 51263030205 | 51263030202 | 51263030206 | ELBOW, DN32-DN25, PRESS SHORT | 61.5 | 61.5 | 35 | 35 |
| 51263030301 | 51263030305 | 51263030302 | 51263030306 | ELBOW, DN32, PRESS | 61.5 | 54 | 35 | 28 |

| NBR | | FKM | | Description of products | A | B | C | C1 |
|-------------|-------------|-------------|-------------|--------------------------------|------|------|----|----|
| SS304 | SS316 | SS304 | SS316 | | | | | |
| 51263000003 | 51263000007 | 51263000004 | 51263000008 | SHORT ELBOW, DN15, PRESS SHORT | 36 | 36 | 21 | 21 |
| 51263010003 | 51263010007 | 51263010004 | 51263010008 | ELBOW, DN20-DN15, PRESS SHORT | 41.5 | 41.5 | 24 | 24 |
| 51263010103 | 51263010107 | 51263010104 | 51263010108 | ELBOW, DN20, PRESS SHORT | 41.5 | 39 | 24 | 21 |
| 51263020103 | 51263020107 | 51263020104 | 51263020108 | ELBOW, DN25-DN20, PRESS SHORT | 51 | 51 | 28 | 28 |
| 51263020203 | 51263020207 | 51263020204 | 51263020208 | ELBOW, DN25, PRESS SHORT | 51 | 44 | 28 | 24 |
| 51263030203 | 51263030207 | 51263030204 | 51263030208 | ELBOW, DN32-DN25, PRESS SHORT | 61.5 | 61.5 | 35 | 35 |
| 51263030303 | 51263030307 | 51263030304 | 51263030308 | ELBOW, DN32, PRESS | 61.5 | 54 | 35 | 28 |

SHORT THREAD TEE FEMALE



| EPDM | | EPDM (NSF) | | Description of products | A | B | C |
|-------------|-------------|-------------|-------------|--|-----|------|----|
| SS304 | SS316 | SS304 | SS316 | | | | |
| 51267000001 | 51267000005 | 51267000002 | 51267000006 | SHORT THREAD TEE,PRESS DN15-1/2 FEMALE | 75 | 31 | 21 |
| 51267010001 | 51267010005 | 51267010002 | 51267010006 | SHORT THREAD TEE,PRESS DN20-1/2 FEMALE | 90 | 33 | 24 |
| 51267010101 | 51267010105 | 51267010102 | 51267010106 | SHORT THREAD TEE,PRESS DN20-3/4 FEMALE | 90 | 34.5 | 24 |
| 51267020101 | 51267020105 | 51267020102 | 51267020106 | SHORT THREAD TEE,PRESS DN25-3/4 FEMALE | 108 | 37 | 28 |
| 51267020201 | 51267020205 | 51267020202 | 51267020206 | SHORT THREAD TEE,PRESS DN25-1 FEMALE | 108 | 40 | 28 |
| 51267030201 | 51267030205 | 51267030202 | 51267030206 | SHORT THREAD TEE,PRESS DN32-1 FEMALE | 130 | 43 | 35 |
| 51267030301 | 51267030305 | 51267030302 | 51267030306 | SHORT THREAD TEE,PRESS DN32-1 1/4 FEMALE | 130 | 49 | 35 |

| NBR | | FKM | | Description of products | A | B | C |
|-------------|-------------|-------------|-------------|--|-----|------|----|
| SS304 | SS316 | SS304 | SS316 | | | | |
| 51267000003 | 51267000007 | 51267000004 | 51267000008 | SHORT THREAD TEE,PRESS DN15-1/2 FEMALE | 75 | 31 | 21 |
| 51267010003 | 51267010007 | 51267010004 | 51267010008 | SHORT THREAD TEE,PRESS DN20-1/2 FEMALE | 90 | 33 | 24 |
| 51267010103 | 51267010107 | 51267010104 | 51267010108 | SHORT THREAD TEE,PRESS DN20-3/4 FEMALE | 90 | 34.5 | 24 |
| 51267020103 | 51267020107 | 51267020104 | 51267020108 | SHORT THREAD TEE,PRESS DN25-3/4 FEMALE | 108 | 37 | 28 |
| 51267020203 | 51267020207 | 51267020204 | 51267020208 | SHORT THREAD TEE,PRESS DN25-1 FEMALE | 108 | 40 | 28 |
| 51267030203 | 51267030207 | 51267030204 | 51267030208 | SHORT THREAD TEE,PRESS DN32-1 FEMALE | 130 | 43 | 35 |
| 51267030303 | 51267030307 | 51267030304 | 51267030308 | SHORT THREAD TEE,PRESS DN32-1 1/4 FEMALE | 130 | 49 | 35 |

SWING CHECK VALVE

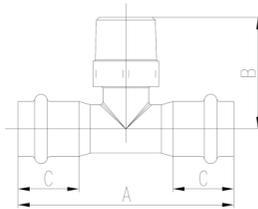


| SS304 | SS316 | Description of products | |
|-------------------------------|-------------|---|--|
| 12080040101 | 12080040102 | SWING CHECK VALVE, 1 1/2 - 1 1/2, FEMALE-FEMALE SWING CHECK VALVE, 2 - 2, FEMALE-FEMALE | |
| 12080050101 | 12080050102 | | |
| * NEED TWO MALE THREAD JOINTS | | | |
| 12080060101 | 12080060102 | SWING CHECK VALVE, FLANGE DN60 SWING CHECK VALVE, FLANGE DN65 SWING CHECK VALVE, FLANGE DN80 SWING CHECK VALVE, FLANGE DN100 SWING CHECK VALVE, FLANGE DN125 SWING CHECK VALVE, FLANGE DN150 SWING CHECK VALVE, FLANGE DN200 SWING CHECK VALVE, FLANGE DN250 | |
| 12080140101 | 12080140102 | | |
| 12080070101 | 12080070102 | | |
| 12080080101 | 12080080102 | | |
| 12080090101 | 12080090102 | | |
| 12080100101 | 12080100102 | | |
| 12080110101 | 12080110102 | | |
| 12080120101 | 12080120102 | | |
| * NEED TWO FLANGE JOINTS | | | |

SHORT THREAD TEE MALE

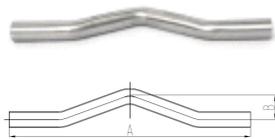


| EPDM | | EPDM (NSF) | | Description of products | A | B | C |
|-------------|-------------|-------------|-------------|--|-----|------|------|
| SS304 | SS316 | SS304 | SS316 | | | | |
| 51265000001 | 51265000005 | 51265000002 | 51265000006 | SHORT THREAD TEE,PRESS DN15-1/2 MALE | 75 | 37 | 21 |
| 51265010001 | 51265010005 | 51265010002 | 51265010006 | SHORT THREAD TEE,PRESS DN20-1/2 MALE | 90 | 39 | 24 |
| 51265010101 | 51265010105 | 51265010102 | 51265010106 | SHORT THREAD TEE,PRESS DN20-3/4 MALE | 90 | 40.5 | 24 |
| 51265020001 | 51265020005 | 51265020002 | 51265020006 | SHORT THREAD TEE,PRESS DN25-1/2 MALE | 108 | 42 | 28 |
| 51265020101 | 51265020105 | 51265020102 | 51265020106 | SHORT THREAD TEE,PRESS DN25-3/4 MALE | 108 | 43 | 28 |
| 51265020201 | 51265020205 | 51265020202 | 51265020206 | SHORT THREAD TEE,PRESS DN25-1 MALE | 108 | 49 | 28 |
| 51265030001 | 51265030005 | 51265030002 | 51265030006 | SHORT THREAD TEE,PRESS DN32-1/2 MALE | 130 | 45 | 35 |
| 51265030101 | 51265030105 | 51265030102 | 51265030106 | SHORT THREAD TEE,PRESS DN32-3/4 MALE | 130 | 46.5 | 35 |
| 51265030201 | 51265030205 | 51265030202 | 51265030206 | SHORT THREAD TEE,PRESS DN32-1 MALE | 130 | 52 | 35 |
| 51265030301 | 51265030305 | 51265030302 | 51265030306 | SHORT THREAD TEE,PRESS DN32-1 1/4 MALE | 130 | 57 | 35 |
| 51265040001 | 51265040005 | 51265040002 | 51265040006 | SHORT THREAD TEE,PRESS DN40-1/2 MALE | 164 | 49 | 42.5 |
| 51265040101 | 51265040105 | 51265040102 | 51265040106 | SHORT THREAD TEE,PRESS DN40-3/4 MALE | 164 | 50.5 | 42.5 |
| 51265040201 | 51265040205 | 51265040202 | 51265040206 | SHORT THREAD TEE,PRESS DN40-1 MALE | 164 | 56 | 42.5 |
| 51265040301 | 51265040305 | 51265040302 | 51265040306 | SHORT THREAD TEE,PRESS DN40-1 1/4 MALE | 164 | 61 | 42.5 |
| 51265040401 | 51265040405 | 51265040402 | 51265040406 | SHORT THREAD TEE,PRESS DN40-1 1/2 MALE | 164 | 59 | 42.5 |
| 51265050001 | 51265050005 | 51265050002 | 51265050006 | SHORT THREAD TEE,PRESS DN50-1/2 MALE | 187 | 55 | 48.5 |
| 51265050101 | 51265050105 | 51265050102 | 51265050106 | SHORT THREAD TEE,PRESS DN50-3/4 MALE | 187 | 57 | 48.5 |
| 51265050201 | 51265050205 | 51265050202 | 51265050206 | SHORT THREAD TEE,PRESS DN50-1 MALE | 187 | 62 | 48.5 |
| 51265050301 | 51265050305 | 51265050302 | 51265050306 | SHORT THREAD TEE,PRESS DN50-1 1/4 MALE | 187 | 67 | 48.5 |
| 51265050401 | 51265050405 | 51265050402 | 51265050406 | SHORT THREAD TEE,PRESS DN50-1 1/2 MALE | 187 | 65 | 48.5 |
| 51265050501 | 51265050505 | 51265050502 | 51265050506 | SHORT THREAD TEE,PRESS DN50-2 MALE | 187 | 70 | 48.5 |



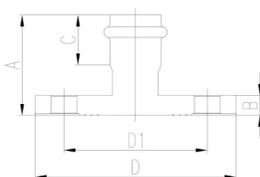
| NBR | | FKM | | Description of products | A | B | C |
|-------------|-------------|-------------|-------------|--|-----|------|------|
| SS304 | SS316 | SS304 | SS316 | | | | |
| 51265000003 | 51265000007 | 51265000004 | 51265000008 | SHORT THREAD TEE,PRESS DN15-1/2 MALE | 75 | 37 | 21 |
| 51265010003 | 51265010007 | 51265010004 | 51265010008 | SHORT THREAD TEE,PRESS DN20-1/2 MALE | 90 | 39 | 24 |
| 51265010103 | 51265010107 | 51265010104 | 51265010108 | SHORT THREAD TEE,PRESS DN20-3/4 MALE | 90 | 40.5 | 24 |
| 51265020003 | 51265020007 | 51265020004 | 51265020008 | SHORT THREAD TEE,PRESS DN25-1/2 MALE | 108 | 42 | 28 |
| 51265020103 | 51265020107 | 51265020104 | 51265020108 | SHORT THREAD TEE,PRESS DN25-3/4 MALE | 108 | 43 | 28 |
| 51265020203 | 51265020207 | 51265020204 | 51265020208 | SHORT THREAD TEE,PRESS DN25-1 MALE | 108 | 49 | 28 |
| 51265030003 | 51265030007 | 51265030004 | 51265030008 | SHORT THREAD TEE,PRESS DN32-1/2 MALE | 130 | 45 | 35 |
| 51265030103 | 51265030107 | 51265030104 | 51265030108 | SHORT THREAD TEE,PRESS DN32-3/4 MALE | 130 | 46.5 | 35 |
| 51265030203 | 51265030207 | 51265030204 | 51265030208 | SHORT THREAD TEE,PRESS DN32-1 MALE | 130 | 52 | 35 |
| 51265030303 | 51265030307 | 51265030304 | 51265030308 | SHORT THREAD TEE,PRESS DN32-1 1/4 MALE | 130 | 57 | 35 |
| 51265040003 | 51265040007 | 51265040004 | 51265040008 | SHORT THREAD TEE,PRESS DN40-1/2 MALE | 164 | 49 | 42.5 |
| 51265040103 | 51265040107 | 51265040104 | 51265040108 | SHORT THREAD TEE,PRESS DN40-3/4 MALE | 164 | 50.5 | 42.5 |
| 51265040203 | 51265040207 | 51265040204 | 51265040208 | SHORT THREAD TEE,PRESS DN40-1 MALE | 164 | 56 | 42.5 |
| 51265040303 | 51265040307 | 51265040304 | 51265040308 | SHORT THREAD TEE,PRESS DN40-1 1/4 MALE | 164 | 61 | 42.5 |
| 51265040403 | 51265040407 | 51265040404 | 51265040408 | SHORT THREAD TEE,PRESS DN40-1 1/2 MALE | 164 | 59 | 42.5 |
| 51265050003 | 51265050007 | 51265050004 | 51265050008 | SHORT THREAD TEE,PRESS DN50-1/2 MALE | 187 | 55 | 48.5 |
| 51265050103 | 51265050107 | 51265050104 | 51265050108 | SHORT THREAD TEE,PRESS DN50-3/4 MALE | 187 | 57 | 48.5 |
| 51265050203 | 51265050207 | 51265050204 | 51265050208 | SHORT THREAD TEE,PRESS DN50-1 MALE | 187 | 62 | 48.5 |
| 51265050303 | 51265050307 | 51265050304 | 51265050308 | SHORT THREAD TEE,PRESS DN50-1 1/4 MALE | 187 | 67 | 48.5 |
| 51265050403 | 51265050407 | 51265050404 | 51265050408 | SHORT THREAD TEE,PRESS DN50-1 1/2 MALE | 187 | 65 | 48.5 |
| 51265050503 | 51265050507 | 51265050504 | 51265050508 | SHORT THREAD TEE,PRESS DN50-2 MALE | 187 | 70 | 48.5 |

PIPE BRIDGE



| EPDM | | Description of products | A | B |
|-------------|-------------|-------------------------|-----|----|
| SS304 | SS316 | | | |
| 50101000001 | 50101000002 | PIPE BRIDGE, DN15 | 242 | 23 |
| 50101010001 | 50101010002 | PIPE BRIDGE, DN20 | 270 | 31 |
| 50101020001 | 50101020002 | PIPE BRIDGE, DN25 | 320 | 38 |
| 50101030001 | 50101030002 | PIPE BRIDGE, DN32 | 437 | 44 |

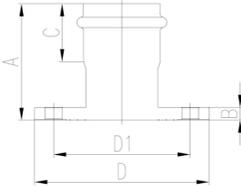
FLANGE JOINT



| EPDM | | EPDM (NSF) | | Description of products | A | B | C | D | D1 |
|-------------|-------------|-------------|-------------|----------------------------|-------|----|------|-----|-------|
| SS304 | SS316 | SS304 | SS316 | | | | | | |
| 51270030001 | 51270030005 | 51270030002 | 51270030006 | FLANGE JOINT, DN32, PRESS | 69 | 16 | 35 | 115 | 89 |
| 51270040001 | 51270040005 | 51270040002 | 51270040006 | FLANGE JOINT, DN40, PRESS | 85 | 18 | 42.5 | 125 | 98 |
| 51270050001 | 51270050005 | 51270050002 | 51270050006 | FLANGE JOINT, DN50, PRESS | 100 | 20 | 48.5 | 150 | 121 |
| 51270060001 | 51270060005 | 51270060002 | 51270060006 | FLANGE JOINT, DN60, PRESS | 117 | 24 | 58 | 180 | 140 |
| 51270140001 | 51270140005 | 51270140002 | 51270140006 | FLANGE JOINT, DN65, PRESS | 126 | 24 | 60 | 180 | 140 |
| 51270070001 | 51270070005 | 51270070002 | 51270070006 | FLANGE JOINT, DN80, PRESS | 138.5 | 24 | 70 | 190 | 152 |
| 51270080001 | 51270080005 | 51270080002 | 51270080006 | FLANGE JOINT, DN100, PRESS | 159 | 24 | 82 | 230 | 190.5 |
| 50170090003 | 50170090004 | | | FLANGE JOINT, DN125, CLAMP | | | | | |
| 50170100003 | 50170100004 | | | FLANGE JOINT, DN150, CLAMP | | | | | |
| 50170110003 | 50170110004 | | | FLANGE JOINT, DN200, CLAMP | | | | | |
| 50170120003 | 50170120004 | | | FLANGE JOINT, DN250, CLAMP | | | | | |

| NBR | | FKM | | Description of products | A | B | C | D | D1 |
|-------------|-------------|-------------|-------------|----------------------------|-------|----|------|-----|-------|
| SS304 | SS316 | SS304 | SS316 | | | | | | |
| 51270030003 | 51270030007 | 51270030004 | 51270030008 | FLANGE JOINT, DN32, PRESS | 69 | 16 | 35 | 115 | 89 |
| 51270040003 | 51270040007 | 51270040004 | 51270040008 | FLANGE JOINT, DN40, PRESS | 85 | 18 | 42.5 | 125 | 98 |
| 51270050003 | 51270050007 | 51270050004 | 51270050008 | FLANGE JOINT, DN50, PRESS | 100 | 20 | 48.5 | 150 | 121 |
| 51270060003 | 51270060007 | 51270060004 | 51270060008 | FLANGE JOINT, DN60, PRESS | 117 | 24 | 58 | 180 | 140 |
| 51270140003 | 51270140007 | 51270140004 | 51270140008 | FLANGE JOINT, DN65, PRESS | 126 | 24 | 60 | 180 | 140 |
| 51270070003 | 51270070007 | 51270070004 | 51270070008 | FLANGE JOINT, DN80, PRESS | 138.5 | 24 | 70 | 190 | 152 |
| 51270080003 | 51270080007 | 51270080004 | 51270080008 | FLANGE JOINT, DN100, PRESS | 159 | 24 | 82 | 230 | 190.5 |

REDUCING FLANGE JOINT



| EPDM | | EPDM (NSF) | | Description of products | A | B | C | D | D1 |
|-------------|-------------|-------------|-------------|---|-------|----|------|-----|-------|
| SS304 | SS316 | SS304 | SS316 | | | | | | |
| 51271060501 | 51271060505 | 51271060502 | 51271060506 | REDUCING FLANGE JOINT, FLANGE DN60-DN50 PIPE, PRESS | 100.5 | 24 | 48.5 | 180 | 140 |
| 51271061401 | 51271061405 | 51271061402 | 51271061406 | REDUCING FLANGE JOINT, FLANGE DN60-DN65 PIPE, PRESS | 126 | 24 | 60 | 180 | 140 |
| 51271140601 | 51271140605 | 51271140602 | 51271140606 | REDUCING FLANGE JOINT, FLANGE DN65-DN80 PIPE, PRESS | 117 | 24 | 58 | 180 | 140 |
| 51271140701 | 51271140705 | 51271140702 | 51271140706 | REDUCING FLANGE JOINT, FLANGE DN65-DN80 PIPE, PRESS | 138 | 24 | 70 | 180 | 140 |
| 51271071401 | 51271071405 | 51271071402 | 51271071406 | REDUCING FLANGE JOINT, FLANGE DN80-DN65 PIPE, PRESS | 126 | 24 | 60 | 190 | 152 |
| 51271070801 | 51271070805 | 51271070802 | 51271070806 | REDUCING FLANGE JOINT, FLANGE DN80-DN100 PIPE, PRESS | 159 | 24 | 82 | 190 | 152 |
| 51271080701 | 51271080705 | 51271080702 | 51271080706 | REDUCING FLANGE JOINT, FLANGE DN100-DN80 PIPE, PRESS | 138.5 | 24 | 70 | 230 | 190.5 |
| 50171080903 | 50171080904 | | | REDUCING FLANGE JOINT, FLANGE DN100-DN125 PIPE, CLAMP | | | | | |
| 51271090801 | 51271090805 | 51271090802 | 51271090806 | REDUCING FLANGE JOINT, FLANGE DN125-DN100 PIPE, PRESS | 159 | 24 | 80 | 255 | 216 |
| 50171091003 | 50171091004 | | | REDUCING FLANGE JOINT, FLANGE DN125-DN150 PIPE, CLAMP | | | | | |
| 50171100903 | 50171100904 | | | REDUCING FLANGE JOINT, FLANGE DN150-DN125 PIPE, CLAMP | | | | | |
| 50171111003 | 50171111004 | | | REDUCING FLANGE JOINT, FLANGE DN200-DN150 PIPE, CLAMP | | | | | |
| 50171121103 | 50171121104 | | | REDUCING FLANGE JOINT, FLANGE DN250-DN200 PIPE, CLAMP | | | | | |

| NBR | | FKM | | Description of products | A | B | C | D | D1 |
|-------------|-------------|-------------|-------------|---|-------|----|------|-----|-------|
| SS304 | SS316 | SS304 | SS316 | | | | | | |
| 51271060503 | 51271060507 | 51271060504 | 51271060508 | REDUCING FLANGE JOINT, FLANGE DN60-DN50 PIPE, PRESS | 100.5 | 24 | 48.5 | 180 | 140 |
| 51271061403 | 51271061407 | 51271061404 | 51271061408 | REDUCING FLANGE JOINT, FLANGE DN60-DN65 PIPE, PRESS | 126 | 24 | 60 | 180 | 140 |
| 51271140603 | 51271140607 | 51271140604 | 51271140608 | REDUCING FLANGE JOINT, FLANGE DN65-DN80 PIPE, PRESS | 117 | 24 | 58 | 180 | 140 |
| 51271140703 | 51271140707 | 51271140704 | 51271140708 | REDUCING FLANGE JOINT, FLANGE DN65-DN80 PIPE, PRESS | 138 | 24 | 70 | 180 | 140 |
| 51271071403 | 51271071407 | 51271071404 | 51271071408 | REDUCING FLANGE JOINT, FLANGE DN80-DN65 PIPE, PRESS | 126 | 24 | 60 | 190 | 152 |
| 51271070803 | 51271070807 | 51271070804 | 51271070808 | REDUCING FLANGE JOINT, FLANGE DN80-DN100 PIPE, PRESS | 159 | 24 | 82 | 190 | 152 |
| 51271080703 | 51271080707 | 51271080704 | 51271080708 | REDUCING FLANGE JOINT, FLANGE DN100-DN80 PIPE, PRESS | 138.5 | 24 | 70 | 230 | 190.5 |
| 51271090803 | 51271090807 | 51271090804 | 51271090808 | REDUCING FLANGE JOINT, FLANGE DN125-DN100 PIPE, PRESS | 159 | 24 | 80 | 255 | 216 |

BALL VALVE FEMALE * FEMALE (BSP)



| SS304 | SS316 | Description of products |
|-------------|-------------|---------------------------------|
| 50475000001 | 50475000002 | BALL VALVE, 1/2 FEMALE-FEMALE |
| 50475010001 | 50475010002 | BALL VALVE, 3/4 FEMALE-FEMALE |
| 50475020001 | 50475020002 | BALL VALVE, 1 FEMALE-FEMALE |
| 50475030001 | 50475030002 | BALL VALVE, 1 1/4 FEMALE-FEMALE |
| 50475040001 | 50475040002 | BALL VALVE, 1 1/2 FEMALE-FEMALE |
| 50475050001 | 50475050002 | BALL VALVE, 2 FEMALE-FEMALE |

* Valve body seal: PTFE.
* NPT is available.

BALL VALVE MALE * MALE (BSP)



| SS304 | SS316 | Description of products |
|-------------|-------------|-----------------------------|
| 50475000101 | 50475000102 | BALL VALVE, 1/2 MALE-MALE |
| 50475010101 | 50475010102 | BALL VALVE, 3/4 MALE-MALE |
| 50475020101 | 50475020102 | BALL VALVE, 1 MALE-MALE |
| 50475030101 | 50475030102 | BALL VALVE, 1 1/4 MALE-MALE |
| 50475040101 | 50475040102 | BALL VALVE, 1 1/2 MALE-MALE |
| 50475050101 | 50475050102 | BALL VALVE, 2 MALE-MALE |

* Valve body seal: PTFE.
* NPT is available.

BALL VALVE MALE * FEMALE (BSP)



| SS304 | SS316 | Description of products |
|-------------|-------------|-------------------------------|
| 50475000201 | 50475000202 | BALL VALVE, 1/2 MALE-FEMALE |
| 50475010201 | 50475010202 | BALL VALVE, 3/4 MALE-FEMALE |
| 50475020201 | 50475020202 | BALL VALVE, 1 MALE-FEMALE |
| 50475030201 | 50475030202 | BALL VALVE, 1 1/4 MALE-FEMALE |
| 50475040201 | 50475040202 | BALL VALVE, 1 1/2 MALE-FEMALE |
| 50475050201 | 50475050202 | BALL VALVE, 2 MALE-FEMALE |

* Valve body seal: PTFE.
* NPT is available.

CLAMP BUTTERFLY VALVES (SS)



| EPDM | | EPDM (NSF) | | Description of products |
|-------------|-------------|-------------|-------------|---|
| SS304 | SS316 | SS304 | SS316 | |
| 51251060101 | 51251060105 | 51251060102 | 51251060106 | CLAMP BUTTERFLY VALVE, DN60, PRESS CLAMP BUTTERFLY VALVE, DN65, PRESS CLAMP BUTTERFLY VALVE, DN80, PRESS TURBINE BUTTERFLY VALVE, DN100, PRESS TURBINE BUTTERFLY VALVE, DN125, CLAMP TURBINE BUTTERFLY VALVE, DN150, CLAMP TURBINE BUTTERFLY VALVE, DN200, CLAMP TURBINE BUTTERFLY VALVE, DN250, CLAMP |
| 51251140101 | 51251140105 | 51251140102 | 51251140106 | |
| 51251070101 | 51251070105 | 51251070102 | 51251070106 | |
| 51251080101 | 51251080105 | 51251080102 | 51251080106 | |
| 50151090103 | 50151090104 | | | |
| 50151100103 | 50151100104 | | | |
| 50151110103 | 50151110104 | | | |
| 50151120103 | 50151120104 | | | |



| NBR | | FKM | | Description of products |
|-------------|-------------|-------------|-------------|---|
| SS304 | SS316 | SS304 | SS316 | |
| 51251060103 | 51251060107 | 51251060104 | 51251060108 | CLAMP BUTTERFLY VALVE, DN60, PRESS CLAMP BUTTERFLY VALVE, DN65, PRESS CLAMP BUTTERFLY VALVE, DN80, PRESS TURBINE BUTTERFLY VALVE, DN100, PRESS |
| 51251140103 | 51251140107 | 51251140104 | 51251140108 | |
| 51251070103 | 51251070107 | 51251070104 | 51251070108 | |
| 51251080103 | 51251080107 | 51251080104 | 51251080108 | |

GATE VALVES



| Part Number | Description of Products |
|-------------|---------------------------------|
| 12183060001 | GATE VALVE(SS304), FLANGE Dn60 |
| 12183140001 | GATE VALVE(SS304), FLANGE Dn65 |
| 12183070001 | GATE VALVE(SS304), FLANGE Dn80 |
| 12183080001 | GATE VALVE(SS304), FLANGE Dn100 |
| 12183090001 | GATE VALVE(SS304), FLANGE Dn125 |
| 12183100001 | GATE VALVE(SS304), FLANGE Dn150 |
| 12183110001 | GATE VALVE(SS304), FLANGE Dn200 |
| 12183120001 | GATE VALVE(SS304), FLANGE Dn250 |

* NEED TWO FLANGE JOINTS

| Part Number | Description of Products |
|-------------|--|
| 12185040001 | BLOCK VALVE(SS304), 1 1/2 - 1 1/2, FEMALE-FEMALE |
| 12185050001 | BLOCK VALVE(SS304), 2 - 2, FEMALE-FEMALE |

* NEED TWO MALE THREAD JOINTS

BLOCK VALVES



| Part Number | Description of Products |
|-------------|----------------------------------|
| 12185060001 | BLOCK VALVE(SS304), FLANGE Dn60 |
| 12185140001 | BLOCK VALVE(SS304), FLANGE Dn65 |
| 12185070001 | BLOCK VALVE(SS304), FLANGE Dn80 |
| 12185080001 | BLOCK VALVE(SS304), FLANGE Dn100 |
| 12185090001 | BLOCK VALVE(SS304), FLANGE Dn125 |
| 12185100001 | BLOCK VALVE(SS304), FLANGE Dn150 |
| 12185110001 | BLOCK VALVE(SS304), FLANGE Dn200 |
| 12185120001 | BLOCK VALVE(SS304), FLANGE DN250 |

* NEED TWO FLANGE JOINTS

BALL VALVE (BRASS) FEMALE (BSP)



| Part Number | Description of products |
|-------------|---|
| 30173000001 | BALL VALVE (BRASS), 1/2-1/2 FEMALE-FEMALE |
| 30173010001 | BALL VALVE (BRASS), 3/4-3/4 FEMALE-FEMALE |
| 30173020001 | BALL VALVE (BRASS), 1-1 FEMALE-FEMALE |
| 30173030001 | BALL VALVE (BRASS), 1 1/4 - 1 1/4 FEMALE-FEMALE |
| 30173040001 | BALL VALVE (BRASS), 1 1/2-1 1/2 FEMALE-FEMALE |
| 30173050001 | BALL VALVE (BRASS), 2-2 FEMALE-FEMALE |

BALL VALVE (BRASS) MALE (BSP)



| Part Number | Description of products |
|-------------|---------------------------------------|
| 30173000101 | BALL VALVE (BRASS), 1/2-1/2 MALE-MALE |
| 30173010101 | BALL VALVE (BRASS), 3/4-3/4 MALE-MALE |

BALL VALVE (BRASS) MALE - FEMALE (BSP)



| Part Number | Description of products |
|-------------|---|
| 30173000201 | BALL VALVE (BRASS), 1/2-1/2 MALE-FEMALE |
| 30173010201 | BALL VALVE (BRASS), 3/4-3/4 MALE-FEMALE |

THREADED PIPE ADAPTERS (BSP)



| SS304 | SS316 | Description of products |
|-------------|-------------|---------------------------------|
| 50131000001 | 50131000002 | ADAPTOR, 1/2-1/2, MALE-MALE |
| 50131010001 | 50131010002 | ADAPTOR, 3/4-3/4, MALE-MALE |
| 50131020001 | 50131020002 | ADAPTOR, 1-1, MALE-MALE |
| 50131030001 | 50131030002 | ADAPTOR, 1 1/4-1 1/4, MALE-MALE |
| 50131040001 | 50131040002 | ADAPTOR, 1 1/2-1 1/2, MALE-MALE |
| 50131050001 | 50131050002 | ADAPTOR, 2-2, MALE-MALE |
| 50131000002 | 50131000003 | ADAPTOR, 1/2-1/4, MALE-MALE |
| 50131010002 | 50131010003 | ADAPTOR, 3/4-1/2, MALE-MALE |
| 50131020002 | 50131020003 | ADAPTOR, 1-3/4, MALE-MALE |
| 50131010003 | 50131010004 | ADAPTOR, 3/4-1, MALE-FEMALE |
| 50131020003 | 50131020004 | ADAPTOR, 1-1/2, MALE-FEMALE |

FLEXIBLE METAL HOSE



| EPDM | | EPDM (NSF) | | Description of products |
|-------------|-------------|-------------|-------------|---|
| SS304 | SS316 | SS304 | SS316 | |
| 51255000001 | 51255000005 | 51255000002 | 51255000006 | FLEXIBLE METAL HOSE, DN15*300mm, PRESS |
| 51255010001 | 51255010005 | 51255010002 | 51255010006 | FLEXIBLE METAL HOSE, DN20*300mm, PRESS |
| 51255020001 | 51255020005 | 51255020002 | 51255020006 | FLEXIBLE METAL HOSE, DN25*300mm, PRESS |
| 51255030001 | 51255030005 | 51255030002 | 51255030006 | FLEXIBLE METAL HOSE, DN32*300mm, PRESS |
| 51255040001 | 51255040005 | 51255040002 | 51255040006 | FLEXIBLE METAL HOSE, DN40*300mm, PRESS |
| 51255050001 | 51255050005 | 51255050002 | 51255050006 | FLEXIBLE METAL HOSE, DN50*300mm, PRESS |
| 51255060001 | 51255060005 | 51255060002 | 51255060006 | FLEXIBLE METAL HOSE, DN60*500mm, PRESS |
| 51255140001 | 51255140005 | 51255140002 | 51255140006 | FLEXIBLE METAL HOSE, DN65*500mm, PRESS |
| 51255070001 | 51255070005 | 51255070002 | 51255070006 | FLEXIBLE METAL HOSE, DN80*500mm, PRESS |
| 51255080001 | 51255080005 | 51255080002 | 51255080006 | FLEXIBLE METAL HOSE, DN100*500mm, PRESS |
| 50155090003 | 50155090004 | | | FLEXIBLE METAL HOSE, DN125*500mm, CLAMP |
| 50155100003 | 50155100004 | | | FLEXIBLE METAL HOSE, DN150*500mm, CLAMP |
| 50155110003 | 50155110004 | | | FLEXIBLE METAL HOSE, DN200*500mm, CLAMP |
| 50155120003 | 50155120004 | | | FLEXIBLE METAL HOSE, DN250*500mm, CLAMP |



| NBR | | FKM | | Description of products |
|-------------|-------------|-------------|-------------|---|
| SS304 | SS316 | SS304 | SS316 | |
| 51255000003 | 51255000007 | 51255000004 | 51255000008 | FLEXIBLE METAL HOSE, DN15*300mm, PRESS |
| 51255010003 | 51255010007 | 51255010004 | 51255010008 | FLEXIBLE METAL HOSE, DN20*300mm, PRESS |
| 51255020003 | 51255020007 | 51255020004 | 51255020008 | FLEXIBLE METAL HOSE, DN25*300mm, PRESS |
| 51255030003 | 51255030007 | 51255030004 | 51255030008 | FLEXIBLE METAL HOSE, DN32*300mm, PRESS |
| 51255040003 | 51255040007 | 51255040004 | 51255040008 | FLEXIBLE METAL HOSE, DN40*300mm, PRESS |
| 51255050003 | 51255050007 | 51255050004 | 51255050008 | FLEXIBLE METAL HOSE, DN50*300mm, PRESS |
| 51255060003 | 51255060007 | 51255060004 | 51255060008 | FLEXIBLE METAL HOSE, DN60*500mm, PRESS |
| 51255140003 | 51255140007 | 51255140004 | 51255140008 | FLEXIBLE METAL HOSE, DN65*500mm, PRESS |
| 51255070003 | 51255070007 | 51255070004 | 51255070008 | FLEXIBLE METAL HOSE, DN80*500mm, PRESS |
| 51255080003 | 51255080007 | 51255080004 | 51255080008 | FLEXIBLE METAL HOSE, DN100*500mm, PRESS |

THREADED FLANGE FEMALE



| SS304 | SS316 | Description of products |
|-------------|-------------|----------------------------|
| 30170040401 | 30170040402 | FLANGE, DN40-1 1/2 FEMALE |
| 30170050501 | 30170050502 | FLANGE, DN50- 2 FEMALE |
| 30170060201 | 30170060202 | FLANGE, DN63-1 FEMALE |
| 30170060401 | 30170060402 | FLANGE, DN63-1 1/2 FEMALE |
| 30170060501 | 30170060502 | FLANGE, DN63-2 FEMALE |
| 30170070201 | 30170070202 | FLANGE, DN80-1 FEMALE |
| 30170070401 | 30170070402 | FLANGE, DN80-1 1/2 FEMALE |
| 30170070501 | 30170070502 | FLANGE, DN80-2 FEMALE |
| 30170070601 | 30170070602 | FLANGE, DN80-2 1/2 FEMALE |
| 30170080401 | 30170080402 | FLANGE, DN100-1 1/2 FEMALE |
| 30170080501 | 30170080502 | FLANGE, DN100-2 FEMALE |
| 30170080601 | 30170080602 | FLANGE, DN100-2 1/2 FEMALE |
| 30170090401 | 30170090402 | FLANGE, DN125-1 1/2 FEMALE |
| 30170090501 | 30170090502 | FLANGE, DN125-2 FEMALE |
| 30170090601 | 30170090602 | FLANGE, DN125-2 1/2 FEMALE |
| 30170090701 | 30170090702 | FLANGE, DN125-3 FEMALE |
| 30170100401 | 30170100402 | FLANGE, DN150-1 1/2 FEMALE |
| 30170100501 | 30170100502 | FLANGE, DN150-2 FEMALE |
| 30170100601 | 30170100602 | FLANGE, DN150-2 1/2 FEMALE |
| 30170100701 | 30170100702 | FLANGE, DN150-3 FEMALE |

PIPE CLIP



| PART NUMBER | Description of products |
|-------------|-------------------------|
| 50122000101 | PIPE CLIP U, DN15 |
| 50122010101 | PIPE CLIP U, DN20 |
| 50122020101 | PIPE CLIP U, DN25 |
| 50122030101 | PIPE CLIP U, DN32 |
| 50122040101 | PIPE CLIP U, DN40 |
| 50122050101 | PIPE CLIP U, DN50 |
| 50122060101 | PIPE CLIP U, DN60 |
| 50122140101 | PIPE CLIP U, DN65 |
| 50122070101 | PIPE CLIP U, DN80 |
| 50122080101 | PIPE CLIP U, DN100 |
| 50122090101 | PIPE CLIP U, DN125 |
| 50122100101 | PIPE CLIP U, DN150 |
| 50122110101 | PIPE CLIP U, DN200 |
| 50122120101 | PIPE CLIP U, DN250 |

SEALS

| EPDM | EPDM (NSF) | NBR | FKM | Description of products |
|-------------|---------------|-------------|-------------|-------------------------|
| 12160000303 | 12160000304 | 12160000202 | 12160000402 | SEAL DN15 |
| 12160010305 | 12160010306 | 12160010203 | 12160010403 | SEAL DN20 |
| 12160020303 | 12160020304 | 12160020202 | 12160020402 | SEAL DN25 |
| 12160030303 | 12160030304 | 12160030202 | 12160030402 | SEAL DN32 |
| 12160040303 | 12160040304 | 12160040202 | 12160040402 | SEAL DN40 |
| 12160050303 | 12160050304 | 12160050202 | 12160050402 | SEAL DN50 |
| 12160060303 | 12160060304 | 12160060202 | 12160060402 | SEAL DN60 |
| 12160140301 | 12160140302 | 12160140201 | 12160140401 | SEAL DN65 |
| 12160070303 | 12160070304 | 12160070202 | 12160070402 | SEAL DN80 |
| 12160080303 | 12160080304 | 12160080203 | 12160080402 | SEAL DN100 |
| 12160090301 | not available | 12160090201 | 12160090401 | SEAL DN125 |
| 12160100301 | not available | 12160100201 | 12160100401 | SEAL DN150 |
| 12160110301 | not available | 12160110201 | 12160110401 | SEAL DN200 |
| 12160120301 | not available | 12160120201 | 12160120401 | SEAL DN250 |

Technical Specifications



- Max. working pressure:
 DN15-150, 16bar/ 232psi;
 DN200-250, 13bar/ 188psi.
- Max. vacuum: 1mbar/ 0.03 in. Hg absolute.
- Working temperature range & fluid medium table:

| Sealing code | Description | Color | Working Temperature | Main applicable medium |
|--------------|--------------------------------------|---|----------------------------------|---|
| EPDM * | Ethylene Propylene Diene Monomer |  | -20°C to 120°C -4°F to 248°F | Potable water, hydronic heating, low pressure steam, fire water system. |
| FKM | Fluoroelastomer |  | -20°C to 200°C -4°F to 392°F | High temp. steam & gas, solar, heating, compressed air |
| NBR | Nitrile Butadiene Rubber |  | -20°C to 100°C -4°F to 212°F | Gas, fuel, compressed air |
| HNBR ** | Hydrogeated Nitrile Butadiene Rubber |  | -40°C to 150°C -40°F to 302°F | Gas, fuel/ oil high temp. or heating systems, HVAC |

* Optional NSF certified sealing for DN 15 to 100.

** Confirm with your sales before order.

Main Applications

Below are typical industrial and civil applications, please consult AQUApipe for selection of stainless steel grade and sealing type:

Compressed air, vacuum, nitrogen & other inert gases, saturated steam, fuel & oil, sea water, drinking water, gas supply, heating water, heating pump, cooling water, solar water connections, fire water, etc.



Quick & Easy Installation Press Tools



| Part Number | Description of Products |
|-------------|-------------------------|
| 51146000201 | DEMO KIT |



| Part Number | Description of Products |
|-------------|---------------------------|
| 50135000201 | CUTTER TOOL FOR DN15-DN50 |
| 50135000202 | CUTTER TOOL BLADE |



| Part Number | Description of Products |
|-------------|--|
| 50135000101 | CUTTER MACHINE 100F1 FOR DN15-DN100 PIPE |
| 50135000103 | 100F1 SAW FOR DN15-DN100 PIPE |



| Part Number | Description of Products |
|-------------|--|
| 50135000102 | CUTTER MACHINE 220F1 FOR DN15-DN250 PIPE |
| 50135000104 | 220F1 SAW FOR DN15-DN250 PIPE |



| Part Number | Description of Products |
|-------------|-------------------------|
| 50135000301 | ID DEBURR TOOL |



| Part Number | Description of Products |
|-------------|-------------------------|
| 50135000401 | OD DEBURR FILE |



| Part Number | Description of Products |
|-------------|-------------------------|
| 30144000201 | PIPE LUGGING MACHINE |



| Part Number | Description of Products |
|-------------|--|
| 51144000101 | JAWS SET INCLUDE 6JAWS(DN15,DN20,DN25, DN32,DN40,DN50)+1SCISSOR(FOR DN40,DN50) |

| Part Number | Description of Products |
|-------------|-------------------------------|
| 12144000501 | PRESS JAW, DN15 |
| 12144000502 | PRESS JAW, DN20 |
| 12144000503 | PRESS JAW, DN25 |
| 12144000504 | PRESS JAW, DN32 |
| 12144000505 | PRESS JAW, DN40 |
| 12144000506 | PRESS JAW, DN50 |
| 12144000507 | JAW SCISSOR FOR DN40 AND DN50 |



| Part Number | Description of Products |
|-------------|--|
| 51144000102 | PRESS GUN SET INCLUDE JAWS SET (6JAWS+1SCISSOR)+1GUN |



| Part Number | Description of Products |
|--------------|---|
| AE15 2844 00 | PORTABLE PRESS GUN FOR DN20-DN50 (SAME GUN FOR LUGGING) |



| Part Number | Description of Products |
|-------------|---|
| 12144000104 | PORTABLE PRESS GUN (GEN2) STROKE 100MM, WITHOUT JAW SCISSOR |



| Part Number | Description of Products |
|-------------|---|
| 51144000110 | FULL SET (PRESS JAWS SET DN60-DN100 + PRESS SCISSOR + HYDRAULIC CYLINDER + HYDRAULIC CABLE PUMP+OIL HOSE6M) |



| Part Number | Description of Products |
|-------------|-------------------------------|
| 12144000410 | JAWS SCISSOR (DN15-DN50 GEN2) |
| 12144000508 | PRESS JAW, DN15 (GEN2) |
| 12144000509 | PRESS JAW, DN20 (GEN2) |
| 12144000510 | PRESS JAW, DN25 (GEN2) |
| 12144000511 | PRESS JAW, DN32 (GEN2) |
| 12144000512 | PRESS JAW, DN40 (GEN2) |
| 12144000513 | PRESS JAW, DN50 (GEN2) |



| Part Number | Description of Products |
|-------------|---|
| 51144000103 | JAWS SET INCLUDE 6JAWS(DN15, DN20, DN25, DN32, DN40, DN50) (GEN2) |



| Part Number | Description of Products |
|-------------|---|
| 50144000107 | PORTABLE PRESS GUN + JAW CLAMPER (DN15-DN50 GEN2) |



| Part Number | Description of Products |
|-------------|---|
| 51144000106 | PRESS JAWS YANG SET INCLUDE 4JAWS + 1CYLINDER YANG(DN60, DN65, DN80, DN100) |



| Part Number | Description of Products |
|-------------|---|
| 51144000115 | FULL SET (PRESS JAWS YANG SET DN60-DN100+ HYDRAULIC CYLINDER YANG+ HYDRAULIC CABLE PUMP+OIL HOSE6M) |



| Part Number | Description of Products |
|-------------|--------------------------|
| 12144000518 | PRESS SCISSOR DN60-DN100 |



| Part Number | Description of Products |
|-------------|--|
| 51144000108 | PRESS JAWS SET INCLUDE 4JAWS (DN60, DN65, DN80, DN100)+ CYLINDER |



| Part Number | Description of Products |
|-------------|---|
| 51144000104 | PRESS GUN SET GEN2, INCLUDE 6JAWS+1SCISSOR+1MACHINE |



| Part Number | Description of Products |
|-------------|-------------------------|
| 12144000519 | PRESS JAW YANG, DN60 |
| 12144000520 | PRESS JAW YANG, DN65 |
| 12144000521 | PRESS JAW YANG, DN80 |
| 12144000522 | PRESS JAW YANG, DN100 |



| Part Number | Description of Products |
|-------------|--|
| 12144000523 | HYDRAULIC CYLINDER YANG, MALE 3/8" FOR DN60-DN100, |



| Part Number | Description of Products |
|-------------|-----------------------------------|
| 12144000110 | HYDRAULIC CABLE PUMP + OIL HOSE6M |



| Part Number | Description of Products |
|-------------|---|
| 51144000116 | FULL SET (PRESS JAWS YANG SET DN60-DN100+ HYDRAULIC CYLINDER YANG + CHARGABLE PUMP+ OIL HOSE1.5M) |



| Part Number | Description of Products |
|-------------|--|
| 51144000107 | HYDRAULIC CYLINDER, MALE 3/8" FOR DN60-DN100 |



| Part Number | Description of Products |
|-------------|-----------------------------|
| 12144000111 | CHARGABLE PUMP+OIL HOSE1.5M |



| Part Number | Description of Products |
|-------------|--|
| 51144000111 | FULL SET (PRESS JAWS SET DN60-DN100+ PRESS SCISSOR + HYDRAULIC CYLINDER + CHARGABLE PUMP+OIL HOSE1.5M) |

DN15 - 100 Press Connection



Use hand cutter tool to cut pipe.



Deburr and chamfer the pipe end.



To make sure build-in seal well.



Use caliper to check and finish.



Pressing by press tools.



Mark the pipe with a marker pen.

DN125 - 250 Clamp Connection



Use cutting machine to cut pipe.



Deburr and chamfer the pipe end.



Use lugging machine to lug pipe.



Tighten the clamp screws, make the clamp closed fully.



Position the clamp over the sealing element, make sure lugs are in the groove.



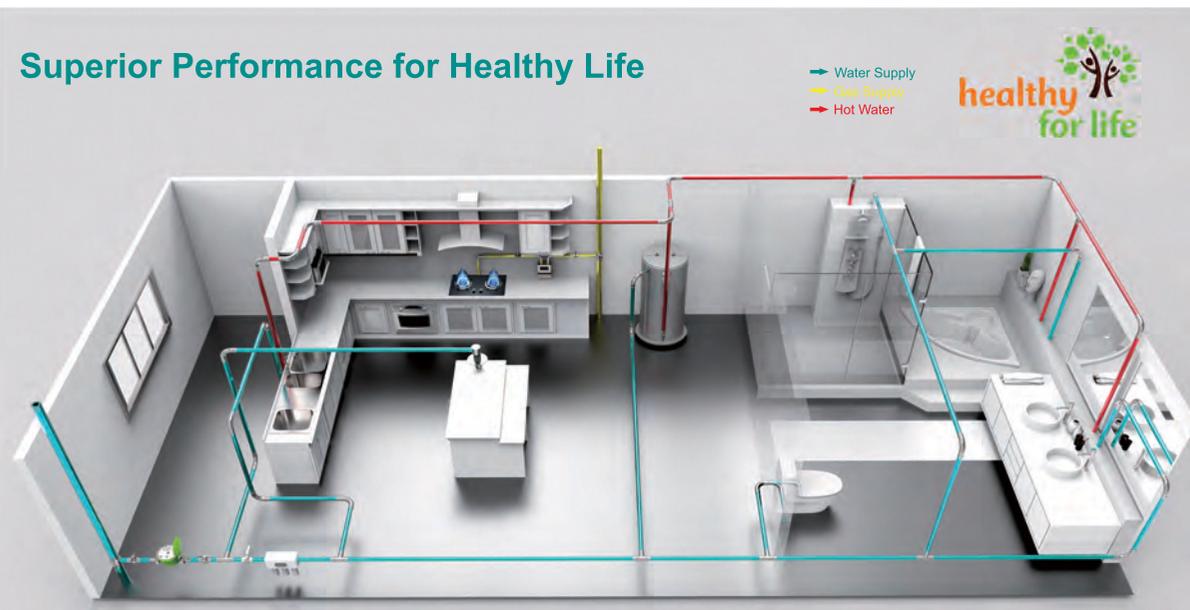
Insert pipes to the seal 2-3cm for both side.

Applications

Industrial Installations



Civil building Installations



One-stop Service

AQUApipe is providing experience of **“One-stop Service”** to the worldwide customers, from the design of the pipe system to after service, one stop solution.



Warranty and Certifications

10 Year Warranty:



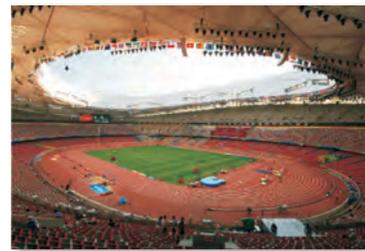
AQUApipe warrants its products to be free of defects in material for a period of ten years from the date of product purchase.

AQUApipe does not warrant the design, assembly or installation of the system, but only the components within AQUApipe 's LOGO. AQUApipe is not responsible for improper assembly, installation, or for any modifications of the product.

The warranty is void upon:

- (a) Failure to follow assembly or installation guidelines;
- (b) Alteration, misuse or abuse of, or damage to the products;
- (c) Operation beyond the design range, excessive pressure, stress, or mishandling in any way;
- (d) Use other than for the intended purpose or in a manner other than specified by AIRpipe.

* AQUApipe is a product brand in AIRpipe Group.



Certifications and Compliances:

ISO 9001 version 2015
 ISO 14001 version 2004
 ASME, UL, TUV, CRN, CE, EN and TS

 **U.S. FOOD & DRUG ADMINISTRATION**
 FDA CFR 21, GRAS, Food and Drugs Regulation in US



 **1935/2004, Food Contact Materials Regulation in EU**



We provide superior performing compressed air & fluid systems with engineered longevity to reduce operating costs and improve productivity.

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