



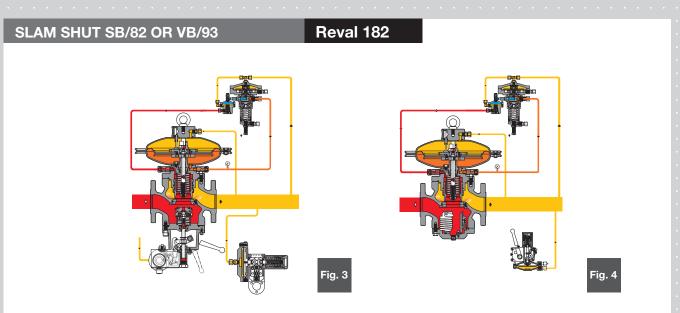
# SILENCER DB/182

# Reval 182

Whenever a lower noise limit is desired, the silencer allows you to considerably reduce the noise level (dBA) as much as 30 dBA.

The Reval 182 pressure regulator can be supplied with an incorporated silencer in either the standard version or version with incorporated slam-shut or incorporated monitor regulator.

With the built-in silencer, the Cg and  $K_G$  valve coefficients are 5% lower than the corresponding version without the silencer. Given the modular arrangement of the regulator, the silencer may be retrofited to both the standard Reval 182 version as well as those with incorporated slam-shut or monitor, without any need for piping modifications. Pressure reduction and control operate in the same manner as the standard version.



The Reval 182 pressure regulator offers the option of installing an incorporated slam shut valve SB/82 or VB/93 valve, depending on the regulator size, and this can be done either during the manufacturing process or be retrofitted in the field. Retrofitting can be done without modifying the pressure regulator assembly.

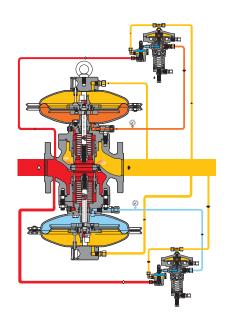
The Cg and  $K_G$  coefficients of a regulator plus incorporated slam-shut system are 7 or 10% (depending on the slam shut type) lower than those for standard versions.

The main characteristics of this device are:

- intervention for over pressure and/or under pressure
- manual re-setting with internal by-pass activated by the lever mechanism;
- manual push button control;
- compact dimensions;
- easy maintenance;
- optional pneumatic or electromagnetic remote control;
- optional installation of remote signal devices (contact switches or proximity switches).

# MONITOR PM/182

# Reval 182



This emergency regulator (monitor) is directly connected to the body of the main regulator. Both pressure regulators, therefore, use the same valve body, although they have independent actuators, pilots and valve seats.

Fig. 5

The operational characteristics of the PM/182 monitor are the same as for the Reval 182 regulator.

The Cg and K<sub>G</sub> coefficients of a regulator having an incorporated monitor are 8% lower than those for standard version.

Another great advantage offered by the incorporated monitor regulator is that it can be installed at any time, even on an already existing regulator, without piping modifications. This solution allows the construction of regulator stations with compact dimensions.

# MAIN FEATURES

# Reval 182

- > Design pressure: up to 274 PSIG (18.9 bar)
- > Design temperature: +14 to + 140 °F (-10°C to + 60°C) (+ 4 to + 140°F -20°C to + 60°C on request)
- > Ambient temperature: +14 to + 140°F (-10°C to + 60°C) (+ 4 to + 140°F-20°C to + 60°C on request)
- > Range of inlet pressure bpe: 2.2 to 362.5 PSIG (0.15 to 25 bar)
- > Range of outlet pressure Wh: 2.8"w.c. to 174 PSIG (7 mbar to 12 bar) depending on installed pilot
- > Minimum working differential pressure: 1.45 PSIG (0.1 bar)
- > Accuracy class AC: up to 2.5
- > Closing pressure class SG: from 10 to 5 depending on outlet pressure
- > Available size DN: 1", 2", 2"<sup>1/2,</sup> 3", 4", 6", 8", 10"
- > Flanging: class 150 RF or RTJ according to ANSI B16.5 and PN25/40 according to ISO 7005.



# MATERIALS

Reval 182

| Body                 | Cast steel ASTM A216 WCB for all sizes<br>Ductile iron GS 400-18 ISO 1083 for Size $\leq 8$ " |
|----------------------|---|
| Head covers          | Dye stamped carbon steel  |
| Stem                 | AISI 416 Stainless steel  |
| Plug                 | ASTM A 350 LF2 Nickel coated on sealing surfaces  |
| Valve seat           | Steel + vulcanized rubber   |
| Diaphragm            | Rubberized canvas   |
| Seals                | Nitrile rubber  |
| Compression fittings | According to DIN 2353 in zinc-plated stainless steel  |

The characteristics listed above are referred to standard products. Special characteristics and materials for specific applications may be supplied upon request.

|                                 |      |      |       |        | <u>.</u> |       |       |       |
|---------------------------------|------|------|-------|--------|----------|-------|-------|-------|
| Cg, KG and C1 coefficie         | nt   |      | Reva  | al 182 |          |       |       |       |
|                                 |      |      |       |        |          |       |       |       |
| Nominal diameter (mm)           | 25   | 50   | 65    | 80     | 100      | 150   | 200   | 250   |
| Size (inches)                   | 1"   | 2"   | 2"1/2 | 3"     | 4"       | 6"    | 8"    | 10"   |
| Cg flow coefficient             | 575  | 2220 | 3320  | 4937   | 8000     | 16607 | 25933 | 36525 |
| K <sub>G</sub> flow coefficient | 605  | 2335 | 4197  | 5194   | 8416     | 17471 | 27282 | 38425 |
| C1 body shape factor            | 32.0 | 32.0 | 32.0  | 32.0   | 32.0     | 32.0  | 32.0  | 32.0  |

For sizing formula refer to www.fiorentini.com/sizing

### CAUTION:

The graph gives a quick reference of maximum recommended regulator capacity depending on selected size. Values are expressed in actual SCFH of Natural gas (s.g. 0.6): to have the data directly in SCFH it is necessary to multiply the value by the outlet pressure value in bar – absolute.

Actual flow rate (ft3/h) Logarithmic scale 3531500 353150 35300 -DN 100 DN 50 -DN 80 -DN 150 -DN 200 -DN 250 -DN 25 Outlet pressure ( psi) 100 14 72 101 29 43 58 87 116 130 Ó 14: and

# PILOTS

# Reval 182

Reval 182 regulators are equipped with series 200 pilot as listed below:

- 201/A control range Wh: 2.8 W.c. to 8.4 Psig; (7 mbar to 0.58 bar)
- 204/A. control range Wh: 4.35 to 174 Psig; (0.3 to 12 bar)
- Pilots may be adjusted manually or remotely

| Pilot adjustments | Reval 182   |
|-------------------|---|
| Pilot type/A      | Manual setting  |
| Pilot type/D      | Electric remote setting control   |
| Pilot type/CS     | Pneumatic remote setting control  |
| F.I.O.            | Smart unit for remote setting, monitoring flow limitation and indirect flow measurement |

#### **Pre-Regulators**

The pilot loop is completed with a device called a pre-regulator, separate from the pilot. The preregulators listed below are available:

- **R14/A**: self adjusting pre-regulator that automatically regulates the feeding pressure to the pilot complete with integral filter at the inlet. Standard supply with pilot 204/A.
- **R31/A:** self adjusting pre-regulator that automatically regulates the feeding pressure to the pilot complete with integral filter at the inlet. Standard supply with pilot 201/A
- **R32/A**: with adjustable set point, range of feeding pressure to the pilot Pep =0.1 to 1.7 bar (1.44 to 24.6) PSIG
- **R42/A**: with adjustable set point, range of feeding pressure to the pilot Pep =0.8 to 9.5 bar (11 to 137) PSIG

|                | BAINI           | BEAV           |
|----------------|-----------------|----------------|
| MOD. SB        | MIN.            | MAX            |
| 101M           | 0.14* -3.77*    | 0.29 - 14.5*   |
| 102M           | 0.58 - 40.61    | 2.9 - 79.77    |
| 102MH          | 40.61 - 79.77   | 2.9 - 79.77    |
| 103M           | 2.9 - 116.03    | 29 - 319.08    |
| 103MH          | 116.03 - 275.57 | 29 - 319.08    |
|                |                 |                |
| values in PSIG |                 |                |
| MOD. VB        | MIN.            | MAX            |
| 31             | 0.11 - 13.05    | 0.23 - 17.4    |
| 32             | 3.62 - 39.16    | 10.15-72.51    |
| 33             | 11.6 - 84.12    | 43.51 - 152.28 |
|                |                 |                |





# **OPTIONALS**

# Reval 182

supplementary filter CF 14dehydrating filter CF 14/D

**For Pilot** 

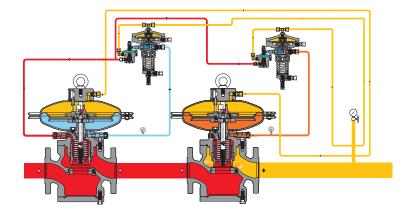
#### For Regulator

- stroke limiter
- flow-limiting devices
- limit switches
- position transmitters
- steel fittings, single or dual sealing

# **IN-LINE MONITOR**

### Reval 182

The monitor is generally installed upstream of the main regulator. Although the function of the monitor regulator is different, the two regulators are virtually identical from the point of view of their mechanical components. The only difference is that the monitor is set at a higher pressure than the main regulator. The Cg and  $K_G$  coefficients of the regulator plus in-line monitor system are about 20% lower than those of the regulator alone.



# **M/A ACCELERATOR**

Reval 182

When the monitor is required to take over rapidly in the event of a main regulator failure, an M/A or V/25 accelerator pilot installed on the monitor is recommended. Installation of the accelerator is mandatory when the monitor is used as safety accessory according to PED directive. This device, connected by a sensing line to the downstream pressure, discharges the gas enclosed in the motorization chamber of the monitor regulator, allowing the monitor to take over control quickly.

The set point of M/A accelerator is usually higher than set point of the monitor by 4.35 to 7.25 PSIG.

A V/25 accelerator is also available with pressure set range Who 0,17 PSIG to 87 PSIG.

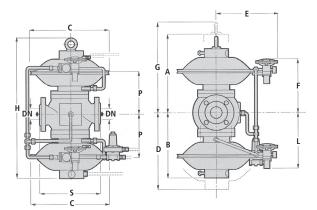
In case of a working monitor configuration (two stage pressure cut with monitor override) the accelerator may not be necessary.

|   |  |   |   |   | Reval  | 102  |   |   |  |                                    |   |  | • •  |
|---|--|---|---|---|--|--|---|---|--|------------------------------------|---|--|--|
|   |  |   |   |   |  | 4  | C   |   | 4  |                                    | -   | E  |  |
|   |  |   |   |   | •  |  | 0   |   | 4  |                                    | <b>n</b>  |  |  |
|   |  |   |   |   | *  |  |   |   |  | ¢                                  | ALL C   |  |  |
|   |  |   |   |   | 1  |  |   | 7   | G  |                                    |   | 57   | 4 E  |
|   |  |   |   |   |  |  |   | 36  | A  |                                    |   |  | F  |
|   |  |   |   |   | ·  |  |   |   | Р  |                                    | 4   |  | 1  |
|   |  | • • •   |   |   |  |  |   | DN -  | $\downarrow \downarrow \downarrow$   | (19                                | TOT   |  | Ļ  |
|   |  | • • •   |   |   |  |  |   | A   | 1  | (6                                 | SOA   |  |  |
|   |  |   |   |   | . L  |  |   |   | D  |                                    | $\rightarrow$   |  |  |
| <b>Overall dimension</b>  | ons in ind   | ches  |   |   |  | -  | S   |   | *  |                                    |   |  |  |
| Size (mm)   |  | 25  |   | 50  | 65   |  | 30  | 100   | 15   |                                    | 200   | 25   |  |
| Inches  |  | 1"  |   | 2"  | 2"1/2  |  | 3"  | 4"  | 6  |                                    | 8"  | 10   |  |
| S - Ansi 150/PN 16  |  | 7.2   |   | 10  | 10.86  |  | .73   | 13.85                                       | 17.  |                                    | 21.49   | 26.4   |  |
| A   |  | 12.59   |   | 3.77  | 16.92  |  | 6.92  | 18.5  | 21.  |                                    | 25.59   | 30.0   |  |
| BC  |  | 3.93  |   | 5.11<br>4.76  | 5.51   |  | 90  | 7.48  | 8.6  |                                    | 10.23   | 12.  |  |
| D   |  | 14.76<br>5.11                                     |   | 4.76<br>6.29  | 19.48<br>7.08  |  | .48<br>87   | 19.48<br>9.84                               | 24<br>10.  |                                    | 24.8<br>12.4  | 24.<br>15.6  |  |
| E   |  | 13.77   |   | 3.77  | 16.14  |  | 6.14  | 16.14                                       | 18   |                                    | 18.7  | 18.  |  |
| F   |  | 9.84  |   | 1.22  | 12.99  |  | 3.38  | 14.56                                       | 15.  |                                    | 17.71   | 21.6   |  |
| G   |  | 16.14   |   | 5.92  | 20.86  |  | .86   | 23.62                                       | 28.  |                                    | 33.46   | 29.9   |  |
| Н   |  | 16.92   | 18  | 3.89  | 22.44  | 22   | .83   | 25.98                                       | 30.  | 31                                 | 35.82   | 42.  | 12   |
| Р   |  | 6.69  | 8   | .07   | 9.84   | 10   | .23   | 11.41                                       | 12.  | 59                                 | 14.56   | 18.  | .5   |
| Tubing Connections  |  |   |   |   |  |  | 1/4" N  | PT  |  |                                    |   |  |  |
| Face to face dimensi  |  | ording t  |   |   | 2 and E  |  |   |   |  |                                    |   |  |  |
|   | UNS S acc  |   | J ANGI,   | ILO 334-  |  | 1 004  |   |   |  |                                    |   |  |  |
| Weights in Lbs  |  |   |   |   |  |  |   |   |  |                                    |   |  |  |
| S - Ansi 150/PN 16  |  | 72  | 1   | 110   | 127  | 1  | 54  | 242   | 42   | 9                                  | 661   | 1.2  | 78   |
| - 182 + SB82  |  |   |   | F   | Reval  | 182  |   |   |  |                                    | · · ·   | · · ·  | • •  |
| - 182 + SB82  | · · ·  | · · · ·   | · · · ·   | F   | Reval  | 182  |   |   | · · · · ·  | <br><br><br>E                      |   |  |  |
| - 182 + SB82  |  | · · · ·   | · · · ·   | F   | Reval  | 182  |   |   |  | <br><br><br>E —                    |   |  | · · ·  |
| - 182 + SB82  |  | · · · ·   |   | F   | Reval  | 182  |   | G A   |  | <br><br>Е                          |   |  |  |
| - 182 + SB82  |  | · · · · · · · · · · · · · · · · · · ·             |   | F   | Reval  | 182<br>  |   |   |  | E                                  | · · · · · · · · · · · · · · · · · · ·   |  |  |
| - 182 + SB82  |  | · · · · · · · · · · · · · · · · · · ·             |   | F   |  |  | 41  |   |  | E                                  | · · · · · · · · · · · · · · · · · · ·   |  |  |
| - 182 + SB82  | <ul> <li></li></ul>  | · · · · · · · · · · · · · · · · · · ·             |   | F   | Reval  |  |   |   |  | E                                  |   |  |  |
| - 182 + SB82  |  |   |   | F   |  |  | 41  | B   |  | E                                  | F .   |  |  |
| - 182 + SB82  |  |   |   |   |  |  | 41  |   |  | E                                  | F .   |  |  |
| .         . |  |   |   | Р<br>М. 5<br>VB/93  |  |  | 41  | B   |  | E                                  | F .   | * VB/93  |  |
| Overall dimensio  |  | ehes  |   |   |  |  | • DN  | B   |  | E                                  |   | * VB/93  |  |
| Overall dimensio<br>Size (mm)   | 25   | · · · · · · · · · · · · · · · · · · ·             | 50  |   |  |  | •DN   | B   |  |                                    |   | <br>200  |  |
| Overall dimensio<br>Size (mm)<br>Inches   | <b>25</b><br>1"  | hes   | <b>50</b><br>2"   |   | 65<br>21/2"  |  | 80<br>3"  | B   | 4"   |                                    | <b>150</b><br>6"  | <b>200</b><br>8"   | 10   |
| Overall dimensio<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16   | <b>25</b><br>1"<br>7.2   | ches  | <b>50</b><br>2"<br>10   |   | 65<br>21/2"<br>10.86   |  | 80<br>3"<br>11.73   | B   | 4"<br>13.85  |                                    |   | <b>200</b><br>8"<br>21.37  | 10<br>26.4   |
| Overall dimensio<br>Size (mm)<br>Inches   | <b>25</b><br>1"<br>7.2<br>12.59  | 5.7*  | <b>50</b><br>2"<br>10<br>13.77  |   | 65<br>21/2"<br>10.86<br>16.92  |  | <b>80</b><br>3"<br>11.73<br>16.92   | B   | 4"<br>13.85<br>18.5  | E                                  | <b>150</b><br>6"<br>17.75<br>21.65  | 200<br>8"<br>21.37<br>25.59  | 10<br>26.4<br>30.3   |
| Overall dimensio<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A  | <b>25</b><br>1"<br>7.2   |   | <b>50</b><br>2"<br>10   | N-S-S-VB/93   | 65<br>21/2"<br>10.86   |  | 80<br>3"<br>11.73   |   | 4"<br>13.85  | E                                  |   | <b>200</b><br>8"<br>21.37  | 10<br>26.4<br>30.3<br>21.6   |
| Overall dimensio<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B   | <b>25</b><br>1"<br>7.2<br>12.59<br>11.81   |   | <b>50</b><br>2"<br>10<br>13.77<br>11.81   | N-S-S-VB/93   | 65<br>21/2"<br>10.86<br>16.92<br>12.4  |  | <b>80</b><br>3"<br>11.73<br>16.92<br>13.18  |   | 4"<br>13.85<br>18.5<br>14.17   | E                                  | <b>150</b><br>6"<br>17.75<br>21.65<br>16.92   | <b>200</b><br>8"<br>21.37<br>25.59<br>18.7   | 10<br>26.4<br>30.3<br>21.6<br>24.  |
| Overall dimensio  | <b>25</b><br>1"<br>7.2<br>12.59<br>11.81<br>14.76<br>15.35<br>13.77                                  | 5.7*  | <b>50</b><br>2"<br>10<br>13.77<br>11.81<br>14.76<br>15.35<br>13.77                                    | VB/93   | 65<br>21/2"<br>10.86<br>16.92<br>12.4<br>19.48<br>16.73<br>16.14                                   | C C C C C C C C C C C C C C C C C C C  | <b>80</b><br>3"<br>11.73<br>16.92<br>13.18<br>19.48<br>17.51<br>16.14                                     | 7.28*                                       | 4"<br>13.85<br>18.5<br>14.17<br>19.48<br>19.68<br>16.14                            |                                    | <b>150</b><br>6"<br>17.75<br>21.65<br>16.92<br>24.8<br>24.21<br>18.7                            | 200<br>8"<br>21.37<br>25.59<br>18.7<br>24.8<br>27.36<br>18.7                                     | 10<br>26.4<br>30.0<br>21.0<br>24.<br>31.4<br>18.   |
| Overall dimensio  | <b>25</b><br>1"<br>7.2<br>12.59<br>11.81<br>14.76<br>15.35<br>13.77<br>9.84                          | 5.7*  | <b>50</b><br>2"<br>10<br>13.77<br>11.81<br>14.76<br>15.35<br>13.77<br>11.22                           | VB/93   | 65<br>21/2"<br>10.86<br>16.92<br>12.4<br>19.48<br>16.73<br>16.14<br>12.99                          | C C C C C C C C C C C C C C C C C C C  | <b>80</b><br>3"<br>11.73<br>16.92<br>13.18<br>19.48<br>17.51<br>16.14<br>13.38                            | 7.28*                                       | 4"<br>13.85<br>18.5<br>14.17<br>19.48<br>19.68<br>16.14<br>14.56                   |                                    | <b>150</b><br>6"<br>17.75<br>21.65<br>16.92<br>24.8<br>24.21<br>18.7<br>15.74                   | 200<br>8"<br>21.37<br>25.59<br>18.7<br>24.8<br>27.36<br>18.7<br>17.71                            | 10<br>26.4<br>30.3<br>21.6<br>24.<br>31.4<br>18.<br>21.6   |
| Overall dimensio  | <b>25</b><br>1"<br>7.2<br>12.59<br>11.81<br>14.76<br>15.35<br>13.77<br>9.84<br>16.14                 | 5.7*<br>8.34*                                     | <b>50</b><br>2"<br>10<br>13.77<br>11.81<br>14.76<br>15.35<br>13.77<br>11.22<br>16.92                  | N-S-<br>VB/93   | <b>65</b><br>21/2"<br>10.86<br>16.92<br>12.4<br>19.48<br>16.73<br>16.14<br>12.99<br>20.86          | с<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С | <b>80</b><br>3"<br>11.73<br>16.92<br>13.18<br>19.48<br>17.51<br>16.14<br>13.38<br>20.86                   | 7.28*<br>12.67*                             | 4"<br>13.85<br>18.5<br>14.17<br>19.48<br>19.68<br>16.14<br>14.56<br>23.62          | 25.03*                             | <b>150</b><br>6"<br>17.75<br>21.65<br>16.92<br>24.8<br>24.21<br>18.7<br>15.74<br>28.93          | 21.37<br>25.59<br>18.7<br>24.8<br>27.36<br>18.7<br>17.71<br>33.46                                | 10<br>26.4<br>30.3<br>21.6<br>24.<br>31.4<br>18.<br>21.6<br>29.9   |
| Overall dimensio  | <b>25</b><br>1"<br>7.2<br>12.59<br>11.81<br>14.76<br>15.35<br>13.77<br>9.84<br>16.14<br>24.4         | 5.7*  | <b>50</b><br>2"<br>10<br>13.77<br>11.81<br>14.76<br>15.35<br>13.77<br>11.22<br>16.92<br>25.59         | VB/93   | <b>65</b><br>21/2"<br>10.86<br>16.92<br>12.4<br>19.48<br>16.73<br>16.14<br>12.99<br>20.86<br>29.33 | C C C C C C C C C C C C C C C C C C C  | <b>80</b><br>3"<br>11.73<br>16.92<br>13.18<br>19.48<br>17.51<br>16.14<br>13.38<br>20.86<br>30.11          | 7.28*                                       | 4"<br>13.85<br>18.5<br>14.17<br>19.48<br>19.68<br>16.14<br>14.56<br>23.62<br>32.67 |                                    | <b>150</b><br>6"<br>17.75<br>21.65<br>16.92<br>24.8<br>24.21<br>18.7<br>15.74<br>28.93<br>38.58 | 200<br>8"<br>21.37<br>25.59<br>18.7<br>24.8<br>27.36<br>18.7<br>17.71<br>33.46<br>44.29          | 10<br>26.4<br>30.0<br>21.6<br>24.<br>31.4<br>18.<br>21.6<br>29.9<br>51.9                                   |
| Overall dimensio  | <b>25</b><br>1"<br>7.2<br>12.59<br>11.81<br>14.76<br>15.35<br>13.77<br>9.84<br>16.14                 | 5.7*<br>8.34*<br>18.3*                            | <b>50</b><br>2"<br>10<br>13.77<br>11.81<br>14.76<br>15.35<br>13.77<br>11.22<br>16.92                  | <ul> <li>N→S</li> <li>N→S</li></ul> | <b>65</b><br>21/2"<br>10.86<br>16.92<br>12.4<br>19.48<br>16.73<br>16.14<br>12.99<br>20.86          | C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C      | <b>80</b><br>3"<br>11.73<br>16.92<br>13.18<br>19.48<br>17.51<br>16.14<br>13.38<br>20.86                   | 7.28*<br>12.67*                             | 4"<br>13.85<br>18.5<br>14.17<br>19.48<br>19.68<br>16.14<br>14.56<br>23.62          | 25.03*<br>34.4*                    | <b>150</b><br>6"<br>17.75<br>21.65<br>16.92<br>24.8<br>24.21<br>18.7<br>15.74<br>28.93          | 21.37<br>25.59<br>18.7<br>24.8<br>27.36<br>18.7<br>17.71<br>33.46                                | 10<br>26.4<br>30.0<br>21.6<br>24.<br>31.4<br>18.<br>21.6<br>29.9<br>51.9                                   |
| Overall dimensio<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B<br>C<br>D<br>E<br>F<br>G<br>H<br>P<br>L   | <b>25</b><br>1"<br>7.2<br>12.59<br>11.81<br>14.76<br>15.35<br>13.77<br>9.84<br>16.14<br>24.4         | 5.7*<br>8.34*<br>18.3*<br>3.85*                   | <b>50</b><br>2"<br>10<br>13.77<br>11.81<br>14.76<br>15.35<br>13.77<br>11.22<br>16.92<br>25.59         | N-S-<br>VB/93<br>6.33*<br>10.03*<br>20.11*<br>5.74*   | <b>65</b><br>21/2"<br>10.86<br>16.92<br>12.4<br>19.48<br>16.73<br>16.14<br>12.99<br>20.86<br>29.33 | C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C      | <b>80</b><br>3"<br>11.73<br>16.92<br>13.18<br>19.48<br>17.51<br>16.14<br>13.38<br>20.86<br>30.11          | 7.28*<br>12.67*<br>24.21*                   | 4"<br>13.85<br>18.5<br>14.17<br>19.48<br>19.68<br>16.14<br>14.56<br>23.62<br>32.67 | 25.03*<br>34.4*<br>5.74*           | <b>150</b><br>6"<br>17.75<br>21.65<br>16.92<br>24.8<br>24.21<br>18.7<br>15.74<br>28.93<br>38.58 | 200<br>8"<br>21.37<br>25.59<br>18.7<br>24.8<br>27.36<br>18.7<br>17.71<br>33.46<br>44.29          | 10<br>26.4<br>30.0<br>21.6<br>24.<br>31.4<br>18.<br>21.6<br>29.9<br>51.9                                   |
| Overall dimension<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B<br>C<br>D<br>E<br>F<br>G<br>H<br>P<br>L<br>M   | <b>25</b><br>1"<br>7.2<br>12.59<br>11.81<br>14.76<br>15.35<br>13.77<br>9.84<br>16.14<br>24.4         | 5.7*<br>8.34*<br>18.3*<br>3.85*<br>7.63*          | <b>50</b><br>2"<br>10<br>13.77<br>11.81<br>14.76<br>15.35<br>13.77<br>11.22<br>16.92<br>25.59         | N−S<br>C<br>VB/93<br>6.33*<br>10.03*<br>20.11*<br>5.74*<br>8.62*  | <b>65</b><br>21/2"<br>10.86<br>16.92<br>12.4<br>19.48<br>16.73<br>16.14<br>12.99<br>20.86<br>29.33 | C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C      | <b>80</b><br>3"<br>11.73<br>16.92<br>13.18<br>19.48<br>17.51<br>16.14<br>13.38<br>20.86<br>30.11          | 7.28*<br>12.67*<br>24.21*<br>5.74*<br>9.68* | 4"<br>13.85<br>18.5<br>14.17<br>19.48<br>19.68<br>16.14<br>14.56<br>23.62<br>32.67 | 25.03*<br>34.4*<br>5.74*<br>10.35* | <b>150</b><br>6"<br>17.75<br>21.65<br>16.92<br>24.8<br>24.21<br>18.7<br>15.74<br>28.93<br>38.58 | 200<br>8"<br>21.37<br>25.59<br>18.7<br>24.8<br>27.36<br>18.7<br>17.71<br>33.46<br>44.29          | 10<br>26.4<br>30.3<br>21.0<br>24.<br>31.4<br>18.<br>21.0<br>29.9<br>51.9                                   |
| Overall dimension         Size (mm)         Inches         S - Ansi 150/PN 16         A         B         C         D         E         F         G         H         P         L         M         N   | <b>25</b><br>1"<br>7.2<br>12.59<br>11.81<br>14.76<br>15.35<br>13.77<br>9.84<br>16.14<br>24.4         | 5.7*<br>8.34*<br>18.3*<br>3.85*                   | <b>50</b><br>2"<br>10<br>13.77<br>11.81<br>14.76<br>15.35<br>13.77<br>11.22<br>16.92<br>25.59         | N-S-<br>VB/93<br>6.33*<br>10.03*<br>20.11*<br>5.74*   | <b>65</b><br>21/2"<br>10.86<br>16.92<br>12.4<br>19.48<br>16.73<br>16.14<br>12.99<br>20.86<br>29.33 | C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C      | <b>80</b><br>3"<br>11.73<br>16.92<br>13.18<br>19.48<br>17.51<br>16.14<br>13.38<br>20.86<br>30.11          | 7.28*<br>12.67*<br>24.21*                   | 4"<br>13.85<br>18.5<br>14.17<br>19.48<br>19.68<br>16.14<br>14.56<br>23.62<br>32.67 | 25.03*<br>34.4*<br>5.74*           | <b>150</b><br>6"<br>17.75<br>21.65<br>16.92<br>24.8<br>24.21<br>18.7<br>15.74<br>28.93<br>38.58 | 200<br>8"<br>21.37<br>25.59<br>18.7<br>24.8<br>27.36<br>18.7<br>17.71<br>33.46<br>44.29          | 10<br>26.4<br>30.3<br>21.0<br>24.<br>31.4<br>18.<br>21.0<br>29.9<br>51.9                                   |
| Overall dimension         Size (mm)         Inches         S - Ansi 150/PN 16         A         B         C         D         E         F         G         H         P         L         M         N         Tubing Connections  | <b>25</b><br>1"<br>7.2<br>12.59<br>11.81<br>14.76<br>15.35<br>13.77<br>9.84<br>16.14<br>24.4<br>6.69 | 5.7*<br>8.34*<br>18.3*<br>3.85*<br>7.63*<br>4.92* | <b>50</b><br>2"<br>10<br>13.77<br>11.81<br>14.76<br>15.35<br>13.77<br>11.22<br>16.92<br>25.59<br>8.07 | N−S<br>C<br>VB/93<br>6.33*<br>10.03*<br>20.11*<br>5.74*<br>8.62*  | <b>65</b><br>21/2"<br>10.86<br>16.92<br>12.4<br>19.48<br>16.73<br>16.14<br>12.99<br>20.86<br>29.33 | C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C      | <b>80</b><br>3"<br>11.73<br>16.92<br>13.18<br>19.48<br>17.51<br>16.14<br>13.38<br>20.86<br>30.11<br>10.23 | 7.28*<br>12.67*<br>24.21*<br>5.74*<br>9.68* | 4"<br>13.85<br>18.5<br>14.17<br>19.48<br>19.68<br>16.14<br>14.56<br>23.62<br>32.67 | 25.03*<br>34.4*<br>5.74*<br>10.35* | <b>150</b><br>6"<br>17.75<br>21.65<br>16.92<br>24.8<br>24.21<br>18.7<br>15.74<br>28.93<br>38.58 | 200<br>8"<br>21.37<br>25.59<br>18.7<br>24.8<br>27.36<br>18.7<br>17.71<br>33.46<br>44.29          | 10<br>26.4<br>30.3<br>21.0<br>24.<br>31.4<br>18.<br>21.0<br>29.9<br>51.9                                   |
| Overall dimension<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B<br>C<br>D<br>E<br>F<br>G<br>G<br>H<br>P<br>L<br>M<br>M<br>N<br>Tubing Connections<br>*indicated Dimension  | <b>25</b><br>1"<br>7.2<br>12.59<br>11.81<br>14.76<br>15.35<br>13.77<br>9.84<br>16.14<br>24.4<br>6.69 | 5.7*<br>8.34*<br>18.3*<br>3.85*<br>7.63*<br>4.92* | <b>50</b><br>2"<br>10<br>13.77<br>11.81<br>14.76<br>15.35<br>13.77<br>11.22<br>16.92<br>25.59<br>8.07 | N−S<br>C<br>VB/93<br>6.33*<br>10.03*<br>20.11*<br>5.74*<br>8.62*  | <b>65</b><br>21/2"<br>10.86<br>16.92<br>12.4<br>19.48<br>16.73<br>16.14<br>12.99<br>20.86<br>29.33 | C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C      | <b>80</b><br>3"<br>11.73<br>16.92<br>13.18<br>19.48<br>17.51<br>16.14<br>13.38<br>20.86<br>30.11<br>10.23 | 7.28*<br>12.67*<br>24.21*<br>5.74*<br>9.68* | 4"<br>13.85<br>18.5<br>14.17<br>19.48<br>19.68<br>16.14<br>14.56<br>23.62<br>32.67 | 25.03*<br>34.4*<br>5.74*<br>10.35* | <b>150</b><br>6"<br>17.75<br>21.65<br>16.92<br>24.8<br>24.21<br>18.7<br>15.74<br>28.93<br>38.58 | 200<br>8"<br>21.37<br>25.59<br>18.7<br>24.8<br>27.36<br>18.7<br>17.71<br>33.46<br>44.29          | 10<br>26.4<br>30.3<br>21.0<br>24.<br>31.4<br>18.<br>21.0<br>29.9<br>51.9                                   |
| Overall dimension         Size (mm)         Inches         S - Ansi 150/PN 16         A         B         C         D         E         F         G         H         P         L         M         N         Tubing Connections  | <b>25</b><br>1"<br>7.2<br>12.59<br>11.81<br>14.76<br>15.35<br>13.77<br>9.84<br>16.14<br>24.4<br>6.69 | 5.7*<br>8.34*<br>18.3*<br>3.85*<br>7.63*<br>4.92* | <b>50</b><br>2"<br>10<br>13.77<br>11.81<br>14.76<br>15.35<br>13.77<br>11.22<br>16.92<br>25.59<br>8.07 | N−S<br>C<br>VB/93<br>6.33*<br>10.03*<br>20.11*<br>5.74*<br>8.62*  | <b>65</b><br>21/2"<br>10.86<br>16.92<br>12.4<br>19.48<br>16.73<br>16.14<br>12.99<br>20.86<br>29.33 | C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C      | <b>80</b><br>3"<br>11.73<br>16.92<br>13.18<br>19.48<br>17.51<br>16.14<br>13.38<br>20.86<br>30.11<br>10.23 | 7.28*<br>12.67*<br>24.21*<br>5.74*<br>9.68* | 4"<br>13.85<br>18.5<br>14.17<br>19.48<br>19.68<br>16.14<br>14.56<br>23.62<br>32.67 | 25.03*<br>34.4*<br>5.74*<br>10.35* | <b>150</b><br>6"<br>17.75<br>21.65<br>16.92<br>24.8<br>24.21<br>18.7<br>15.74<br>28.93<br>38.58 | 200<br>8"<br>21.37<br>25.59<br>18.7<br>24.8<br>27.36<br>18.7<br>17.71<br>33.46<br>44.29<br>14.56 | <b>M</b><br><b>25</b><br>100<br>26.4.<br>21.6.<br>24.<br>31.4.<br>21.6.<br>29.5.<br>51.5.<br>1.8.<br>1.499 |

# REVAL 182 + PM182

Reval 182





### **Overall dimensions in inches**

| Size (mm)          | 25    | 50    | 65    | 80       | 100   | 150   | 200   |
|--------------------|-------|-------|-------|----------|-------|-------|-------|
| Inches             | 1"    | 2"    | 2"1/2 | 3"       | 4"    | 6"    | 8"    |
| S - Ansi 150/PN 16 | 7.2   | 10    | 10.86 | 11.73    | 13.85 | 17.75 | 21.37 |
| A                  | 12.59 | 13.77 | 16.92 | 16.92    | 18.5  | 21.65 | 25.59 |
| В                  | 10.23 | 11.41 | 14.56 | 14.96    | 16.14 | 19.29 | 23.22 |
| С                  | 14.76 | 14.76 | 19.48 | 19.48    | 19.48 | 24.8  | 24.8  |
| D                  | 16.14 | 16.92 | 20.86 | 20.86    | 23.62 | 28.93 | 33.46 |
| E                  | 13.77 | 13.77 | 16.14 | 16.14    | 16.14 | 18.7  | 18.7  |
| F                  | 9.84  | 11.22 | 12.99 | 13.38    | 14.56 | 15.74 | 17.71 |
| G                  | 16.14 | 16.92 | 20.86 | 20.86    | 23.62 | 28.93 | 33.46 |
| Н                  | 25.19 | 27.55 | 33.85 | 33.85    | 37    | 4.33  | 51.18 |
| L                  | 10.23 | 11.61 | 13.38 | 13.77    | 14.96 | 16.14 | 18.11 |
| Р                  | 6.69  | 8.07  | 9.84  | 10.23    | 11.41 | 12.59 | 14.56 |
| Tubing Connections |       |       |       | 1/4" NPT |       |       |       |

#### **Tubing Connections**

Face to face dimensions S according to ANSI, IEC 534-3 and EN 334

#### Weights in Lbs

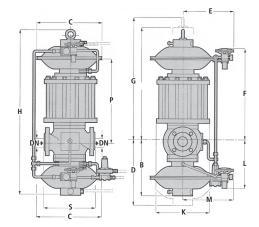
| <b>3-AISI 150/FIN 10</b> 119 100 107 220 350 502 070 | S - Ansi 150/PN 16 | 119 | 165 | 187 | 220 | 330 | 562 | 870 |
|--|--------------------|-----|-----|-----|-----|-----|-----|-----|
|--|--------------------|-----|-----|-----|-----|-----|-----|-----|

| L 182 + DB/182  |  |   | Reval   | 182  |   |  |  | E   |  |
|---|--|---|---|--|---|--|--|---|--|
|   |  |   |   |  |   | C  | 1  |   |  |
|   |  |   |   |  | · · ·   |  |  | st the  |  |
|   |  |   |   |  |   |  | $\leftarrow$   |   | T  |
|   |  |   |   |  |   |  |  |   |  |
|   |  |   |   |  |   |  | G A  |   |  |
|   |  |   |   |  | H   | P  |  |   |  |
|   |  |   |   |  | · · ·   |  |  |   |  |
|   |  |   |   |  | · ·   17  | JEG.   |  |   |  |
|   |  |   |   |  | • • DN+   | +DN +  | +++++++++++++++++++++++++++++++++++++++  | $((\bigcirc))$  |  |
|   |  |   |   |  |   |  | D  |   |  |
| Overall dimension   | ns in inches   |   |   |  | L   | S  |  | В   |  |
| Size (mm)   | 25   | 50  | 65  | 80   | 100   | 150  | 200  | 250   |  |
| Inches  | 1"   | 2"  | 2"1/2   | 3"   | 4"  | 6"   | 8"   | 10"   |  |
| S - Ansi 150/PN 16  | 7.2  | 10  | 10.86   | 11.73  | 13.89   | 17.75  | 21.37  | 26.49   | 1  |
| Α   | 20.47  | 21.65   | 25.59   | 26.57  | 29.72   | 36.22  | 41.33  | 49.68   | j.   |
| В   | 3.93   | 5.11  | 5.51  | 5.9  | 7.48  | 8.66   | 10.23  | 12.2  |  |
| С   | 14.76  | 14.76   | 19.48   | 19.48  | 19.48   | 24.8   | 24.8   | 24.8  |  |
| D   | 5.11   | 6.29  | 7.08  | 7.87   | 9.84  | 10.62  | 12.4   | 15.66   |  |
| E   | 13.77  | 13.77   | 16.14   | 16.14  | 16.14   | 18.7   | 18.7   | 18.5  |  |
| F   | 17.71  | 18.89   | 21.65   | 23.03  | 25.78   | 30.31  | 33.46  | 40.94   |  |
| G   | 24.01  | 25.19   | 30.7  | 30.9   | 35.23   | 44.09  | 49.21  | 57.08   |  |
| Н   | 32.28  | 33.46   | 37.99   | 39.76  | 43.89   | 53.14  | 60.03  | 62  |  |
| P<br>K  | 8.46<br>14.56  | 11.61<br>15.74  | 12.79<br>18.5   | 12.79<br>19.88   | 15.35<br>22.63  | 18.5<br>27.16  | 23.62<br>30.31   | 37.79<br>27.55  |  |
| Tubing Connections  | 14.00  | 10.74   | 10.0  |  | 4" NPT  | 27.10  | 00.01  | 21.00   |  |
|   |  |   |   | 1/-  | T INI I   |  |  |   |  |
| Face to face dimensio   | ons S according t  | o ANSI, IEC   | 534-3 and EN  | 1 334  |   |  |  |   |  |
| Weights in Lbs  |  |   |   |  |   |  |  |   |  |
| S - Ansi 150/PN 16  | 97   | 185   | 194   | 246  | .392  | 747  | 1 181  | 1 98  | 4  |
|   |  |   |   |  |   |  |  |   | 1  |
|   |  |   |   |  |   |  |  |   |  |
|   |  |   |   |  |   |  |  |   |  |
| 182+DB/182+   | SB82   |   | Reval   | 182  |   |  |  |   |  |
| L 182+DB/182+   | SB82   |   | Reval   | 182  |   |  |  |   |  |
| - 182+DB/182+   | SB82   |   | Reval   | 182  |   | рЕ-  | · · · ·  | · · · · ·   | •  |
| _ 182+DB/182+   | SB82   | · · · · ·   | Reval   | 182  | c   | E -  | · · · ·  | · · · · ·   | -  |
| _ 182+DB/182+   | SB82   | · · · · ·   | Reval   | 182  |   |  |  | · · · · ·   | -  |
| _ 182+DB/182+   | SB82   | · · · · ·   | Reval   |  |   |  |  |   | -  |
| <u>182+DB/182</u> +   | SB82   | · · · · ·   | Reval   |  |   |  |  | · · · · · ·   |  |
| _ 182+DB/182+   | SB82   | · · · · · ·   | Reval   |  |   |  | F  | · · · · · ·   |  |
| _ 182+DB/182+   | SB82   |   | Reval   |  |   |  | F  |   |  |
| - 182+DB/182+   | SB82   |   | Reval   |  | P<br>T  |  | F  |   |  |
| _ 182+DB/182+   | SB82   |   | Reval   |  |   |  |  |   |  |
| - 182+DB/182+   | SB82   | ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·   | Reval   |  | P<br>+DN <sup>±</sup>   |  | F  |   |  |
| - 182+DB/182+   | SB82   | ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         · |   |  | P<br>+DN <sup>±</sup>   |  | F F  |   |  |
| 182+DB/182+   |  | ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·           ·         ·         ·         ·         ·         ·           ·         ·         ·         ·         ·         ·           ·         ·         ·         ·         ·         ·           ·         ·         ·         ·         ·         ·             | Reval   |  | P<br>+DN <sup>±</sup>   |  | F<br>F   | B   |  |
| Overall dimension   | nș in inches   | 50  | N S S A   |  | P<br>+DNL<br>+<br>S   |  | 150  |   | -M   |
|   |  |   | Reval   |  | P<br>+DN <sup>±</sup>   |  | 150<br>6"  | B<br>   |  |
| Overall dimension<br>Size (mm)  | ns in inches   |   | • • • • • • • • • • • • • • • • • • •   |  |   |  |  | 200   | 10   |
| Overall dimension<br>Size (mm)<br>Inches  | ns in inches<br>25<br>1"   | 2"  | • • • • • • • • • • • • • • • • • • •   |  | • • • • • • • • • • • • • • • • • • •   | <b>100</b><br>4"   | 6"   | <b>200</b><br>8"  | 10<br>26.  |
| Overall dimension<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16  | <b>25</b><br>1"<br>7.2<br>20.47<br>11.81 5.7*  | 2"<br>10<br>21.65<br>11.81 6.4  | 65<br>21/2"<br>10.86<br>25.59<br>33* 12.4   |  | <b>30</b><br>31.73<br>5.57<br>3.18 7.28*  | <b>100</b><br>4"<br>13.85<br>29.72<br>14.17 15.9*  | 6"<br>17.75  | <b>200</b><br>8"<br>21.37   | 10<br>26.<br>49.<br>21.  |
| Overall dimension<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B<br>C   | 25<br>1"<br>7.2<br>20.47<br>11.81 5.7*<br>14.76  | 2"<br>10<br>21.65<br>11.81 6.<br>14.76  | 65<br>21/2"<br>10.86<br>25.59<br>33* 12.4<br>19.48  |  | <b>3</b><br><b>3</b><br><b>3</b><br><b>3</b><br><b>3</b><br><b>3</b><br><b>5</b><br><b>5</b><br><b>3</b><br><b>1</b><br><b>7</b><br><b>3</b><br><b>1</b><br><b>7</b><br><b>2</b><br><b>8</b><br><b>1</b><br><b>7</b><br><b>2</b><br><b>8</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b>  | <b>100</b><br>4"<br>13.85<br>29.72<br>14.17 15.9*<br>19.48   | 6"<br>17.75<br>36.22<br>16.92<br>24.8  | 200<br>8"<br>21.37<br>41.33<br>18.7<br>24.8   | 10<br>26.<br>49.<br>21.<br>24  |
| Overall dimension<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B<br>C<br>D  | ns in inches           25           1"           7.2           20.47           11.81         5.7*           14.76           15.35         8.34*  | 2"<br>10<br>21.65<br>11.81 6.<br>14.76<br>15.35 10  | 65<br>21/2"<br>10.86<br>25.59<br>33* 12.4<br>19.48<br>03* 16.73   | H<br>H<br>11<br>26<br>7* 13<br>19<br>11.49* 17   | <b>30</b><br>31"<br>1.73<br>3.557<br>3.18 7.28*<br>9.48<br>7.51 12.67*  | <b>100</b><br>4"<br>13.85<br>29.72<br>14.17 15.9*<br>19.48<br>19.68 25.03  | 6"<br>17.75<br>36.22<br>16.92<br>24.8<br>* 24.21   | 200<br>8"<br>21.37<br>41.33<br>18.7<br>24.8<br>27.36  | 10<br>26.<br>49.<br>21.<br>24<br>31.   |
| Overall dimension<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B<br>C<br>D<br>E   | 25<br>1"<br>7.2<br>20.47<br>11.81 5.7*<br>14.76<br>15.35 8.34*<br>13.77  | 2"<br>10<br>21.65<br>11.81 6.<br>14.76<br>15.35 10<br>13.77   | 65<br>21/2"<br>10.86<br>25.59<br>33* 12.4<br>19.48<br>03* 16.73<br>16.14  | H<br>H<br>T<br>T<br>T<br>11.49* 17<br>16   | <b>30</b><br>31.73<br>35.57<br>3.18<br>7.28*<br>0.48<br>7.51<br>12.67*<br>3.14  | <b>100</b><br>4"<br>13.85<br>29.72<br>14.17 15.9*<br>19.48<br>19.68 25.03<br>16.14   | 6"<br>17.75<br>36.22<br>16.92<br>24.8<br>* 24.21<br>18.7   | 200<br>8"<br>21.37<br>41.33<br>18.7<br>24.8<br>27.36<br>18.7  | 10<br>26.<br>49.<br>21.<br>24<br>31.<br>18                                   |
| Overall dimension<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B<br>C<br>D<br>E<br>F  | 25<br>1"<br>7.2<br>20.47<br>11.81 5.7*<br>14.76<br>15.35 8.34*<br>13.77<br>9.84  | 2"<br>10<br>21.65<br>11.81 6.<br>14.76<br>15.35 10<br>13.77<br>18.89  | 65<br>21/2"<br>10.86<br>25.59<br>33* 12.4<br>19.48<br>03* 16.73<br>16.14<br>21.65   | H<br>H<br>11<br>26<br>7* 13<br>19<br>11.49* 17<br>16<br>23   | <b>30</b><br>31.73<br>3.57<br>3.18<br>7.51<br>12.67*<br>3.14<br>3.03  | <b>100</b><br>4"<br>13.85<br>29.72<br>14.17 15.9*<br>19.48<br>19.68 25.03<br>16.14<br>25.78  | 6"<br>17.75<br>36.22<br>16.92<br>24.8<br>* 24.21<br>18.7<br>30.31                                    | 200<br>8"<br>21.37<br>41.33<br>18.7<br>24.8<br>27.36<br>18.7<br>33.46                                     | 10<br>26.<br>49.<br>21.<br>24<br>31.<br>31.<br>18<br>40.                     |
| Overall dimension<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B<br>C<br>D<br>E<br>F<br>G   | 25<br>1"<br>7.2<br>20.47<br>11.81<br>5.7*<br>14.76<br>15.35<br>8.34*<br>13.77<br>9.84<br>24.01   | 2"<br>10<br>21.65<br>11.81 6.<br>14.76<br>15.35 10<br>13.77<br>18.89<br>25.19   | 65<br>21/2"<br>10.86<br>25.59<br>33* 12.4<br>19.48<br>03* 16.73<br>16.14<br>21.65<br>30.7                                       | H<br>H<br>11<br>26<br>7* 13<br>15<br>11.49* 17<br>16<br>23<br>30   | <b>30</b><br><b>37</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>6.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>7.</b><br><b>2.</b><br><b>8.</b><br><b>7.</b><br><b>2.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b><br><b>7.</b> | <b>100</b><br>4"<br>13.85<br>29.72<br>14.17 15.9*<br>19.48<br>19.68 25.03<br>16.14<br>25.78<br>35.23   | 6"<br>17.75<br>36.22<br>16.92<br>24.8<br>* 24.21<br>18.7<br>30.31<br>44.09                           | 200<br>8"<br>21.37<br>41.33<br>18.7<br>24.8<br>27.36<br>18.7<br>33.46<br>49.21                            | 10<br>26.<br>49.0<br>21.0<br>24<br>31.0<br>18<br>40.9<br>57.0                |
| Overall dimension<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B<br>C<br>D<br>E<br>F<br>G<br>H  | 25         1"         7.2         20.47         11.81         5.7*         14.76         15.35       8.34*         13.77         9.84         24.01         32.28       18.3*                          | 2"<br>10<br>21.65<br>11.81 6.<br>14.76<br>15.35 10<br>13.77<br>18.89<br>25.19<br>33.46 20   | 65<br>21/2"<br>10.86<br>25.59<br>33* 12.4<br>19.48<br>03* 16.73<br>16.14<br>21.65<br>30.7<br>111* 37.99                         | H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H   | <b>30</b><br><b>37</b><br><b>3.1</b><br><b>5.7</b><br><b>3.18</b><br><b>7.28</b> *<br><b>3.18</b><br><b>7.28</b> *<br><b>3.18</b><br><b>7.28</b> *<br><b>3.14</b><br><b>3.03</b><br><b>0.9</b><br><b>9.76</b><br><b>24.21</b> *   | <b>100</b><br>4"<br>13.85<br>29.72<br>14.17 15.9*<br>19.48<br>19.68 25.03<br>16.14<br>25.78<br>35.23<br>43.89 34.4*  | 6"<br>17.75<br>36.22<br>16.92<br>24.8<br>* 24.21<br>18.7<br>30.31<br>44.09<br>53.14                  | 200<br>8"<br>21.37<br>41.33<br>18.7<br>24.8<br>27.36<br>18.7<br>33.46<br>49.21<br>60.03                   | 10<br>26.<br>49.<br>21.<br>24<br>31.<br>18<br>40.9<br>57.0<br>71.            |
| Overall dimension<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B<br>C<br>D<br>E<br>F<br>G<br>H<br>K   | 25         1"         7.2         20.47         11.81         5.7*         14.76         15.35       8.34*         13.77         9.84         24.01         32.28       18.3*         8.46             | 2"<br>10<br>21.65<br>11.81 6.<br>14.76<br>15.35 10<br>13.77<br>18.89<br>25.19<br>33.46 20<br>11.61  | 65<br>21/2"<br>10.86<br>25.59<br>33* 12.4<br>19.48<br>03* 16.73<br>16.14<br>21.65<br>30.7<br>111* 37.99<br>12.79                | Image: Second secon               | <b>30</b><br><b>37</b><br><b>3.1</b><br><b>5.7</b><br><b>3.18</b><br><b>7.28</b> *<br><b>3.18</b><br><b>7.28</b> *<br><b>3.18</b><br><b>7.28</b> *<br><b>3.14</b><br><b>3.03</b><br><b>0.9</b><br><b>3.76</b><br><b>24.21</b> *<br><b>2.79</b>  | <b>100</b><br>4"<br>13.85<br>29.72<br>14.17 15.9*<br>19.48<br>19.68 25.03<br>16.14<br>25.78<br>35.23<br>43.89 34.4*<br>15.35                                     | 6"<br>17.75<br>36.22<br>16.92<br>24.8<br>* 24.21<br>18.7<br>30.31<br>44.09<br>53.14<br>18.5          | 200<br>8"<br>21.37<br>41.33<br>18.7<br>24.8<br>27.36<br>18.7<br>33.46<br>49.21<br>60.03<br>23.62          | 10<br>26.<br>49.0<br>21.0<br>24<br>31.<br>18<br>40.9<br>57.0<br>71.3<br>37.7 |
| Overall dimension<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B<br>C<br>D<br>E<br>F<br>G<br>H<br>K<br>P  | 25         1"         7.2         20.47         11.81         5.7*         14.76         15.35       8.34*         13.77         9.84         24.01         32.28       18.3*         8.46         370 | 2"<br>10<br>21.65<br>11.81 6.<br>14.76<br>15.35 10<br>13.77<br>18.89<br>25.19<br>33.46 20<br>11.61<br>15.74   | 65<br>21/2"<br>10.86<br>25.59<br>33* 12.4<br>19.48<br>03* 16.73<br>16.14<br>21.65<br>30.7<br>111* 37.99<br>12.79<br>18.5        | Image: Second secon | <b>30</b><br><b>37</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b> | <b>100</b><br>4"<br>13.85<br>29.72<br>14.17<br>15.9*<br>19.48<br>19.68<br>25.03<br>16.14<br>25.78<br>35.23<br>43.89<br>34.4*<br>15.35<br>22.63                   | 6"<br>17.75<br>36.22<br>16.92<br>24.8<br>* 24.21<br>18.7<br>30.31<br>44.09<br>53.14                  | 200<br>8"<br>21.37<br>41.33<br>18.7<br>24.8<br>27.36<br>18.7<br>33.46<br>49.21<br>60.03                   | 10<br>26.<br>49.0<br>21.0<br>24<br>31.<br>18<br>40.9<br>57.0<br>71.3<br>37.7 |
| Overall dimension<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B<br>C<br>D<br>E<br>F<br>G<br>H<br>K<br>P<br>L   | 25   | 2"<br>10<br>21.65<br>11.81<br>6.<br>14.76<br>15.35<br>10<br>13.77<br>18.89<br>25.19<br>33.46<br>20<br>11.61<br>15.74<br>5.  | 65<br>21/2"<br>10.86<br>25.59<br>33* 12.4<br>19.48<br>03* 16.73<br>16.14<br>21.65<br>30.7<br>111* 37.99<br>12.79<br>18.5        |  | <b>30</b><br><b>37</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b> | <b>100</b><br>4"<br>13.85<br>29.72<br>14.17 15.9*<br>19.48<br>19.68 25.03<br>16.14<br>25.78<br>35.23<br>43.89 34.4*<br>15.35<br>22.63<br>5.74*                   | 6"<br>17.75<br>36.22<br>16.92<br>24.8<br>* 24.21<br>18.7<br>30.31<br>44.09<br>53.14<br>18.5<br>27.16 | 200<br>8"<br>21.37<br>41.33<br>18.7<br>24.8<br>27.36<br>18.7<br>33.46<br>49.21<br>60.03<br>23.62          | 10<br>26.<br>49.0<br>21.0<br>24<br>31.<br>18<br>40.9<br>57.0<br>71.3<br>37.7 |
| Overall dimension<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B<br>C<br>D<br>E<br>F<br>G<br>H<br>K<br>P<br>L<br>M  | 25   | 2"<br>10<br>21.65<br>11.81<br>6.<br>14.76<br>15.35<br>10<br>13.77<br>18.89<br>25.19<br>33.46<br>20<br>11.61<br>15.74<br>5.<br>8.  | 65<br>21/2"<br>10.86<br>25.59<br>33* 12.4<br>19.48<br>03* 16.73<br>16.14<br>21.65<br>30.7<br>111* 37.99<br>12.79<br>18.5<br>74* | Image: Non-State         Image: Non-State           Image: Non-State   | <b>30</b><br><b>37</b><br><b>30</b><br><b>37</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>3.</b><br><b>12.</b><br><b>6.</b><br><b>5.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>5.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>5.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>7.</b><br><b>12.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b>  | <b>100</b><br>4"<br>13.85<br>29.72<br>14.17<br>15.9*<br>19.48<br>19.68<br>25.03<br>16.14<br>25.78<br>35.23<br>43.89<br>34.4*<br>15.35<br>22.63<br>5.74*<br>10.35 | 6"<br>17.75<br>36.22<br>16.92<br>24.8<br>* 24.21<br>18.7<br>30.31<br>44.09<br>53.14<br>18.5<br>27.16 | 200<br>8"<br>21.37<br>41.33<br>18.7<br>24.8<br>27.36<br>18.7<br>33.46<br>49.21<br>60.03<br>23.62          | 10<br>26.<br>49.0<br>21.0<br>24<br>31.<br>18<br>40.9<br>57.0<br>71.3<br>37.7 |
| Overall dimension         Size (mm)         Inches         S - Ansi 150/PN 16         A         B         C         D         E         F         G         H         K         P         L         M         N | 25   | 2"<br>10<br>21.65<br>11.81<br>6.<br>14.76<br>15.35<br>10<br>13.77<br>18.89<br>25.19<br>33.46<br>20<br>11.61<br>15.74<br>5.<br>8.  | 65<br>21/2"<br>10.86<br>25.59<br>33* 12.4<br>19.48<br>03* 16.73<br>16.14<br>21.65<br>30.7<br>111* 37.99<br>12.79<br>18.5        | Image: Constraint of the second se              | <b>30</b><br><b>37</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b> | <b>100</b><br>4"<br>13.85<br>29.72<br>14.17 15.9*<br>19.48<br>19.68 25.03<br>16.14<br>25.78<br>35.23<br>43.89 34.4*<br>15.35<br>22.63<br>5.74*                   | 6"<br>17.75<br>36.22<br>16.92<br>24.8<br>* 24.21<br>18.7<br>30.31<br>44.09<br>53.14<br>18.5<br>27.16 | 200<br>8"<br>21.37<br>41.33<br>18.7<br>24.8<br>27.36<br>18.7<br>33.46<br>49.21<br>60.03<br>23.62          | 10<br>26.<br>49.0<br>21.0<br>24<br>31.<br>18<br>40.9<br>57.0<br>71.3<br>37.7 |
| Overall dimension<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B<br>C<br>D<br>E<br>F<br>G<br>H<br>K<br>P<br>L<br>K<br>P<br>L<br>M<br>N<br>Tubing Connections  | 25   | 2"<br>10<br>21.65<br>11.81 6.<br>14.76<br>15.35 10<br>13.77<br>18.89<br>25.19<br>33.46 20<br>11.61<br>15.74<br>5.<br>8.<br>4.   | 65<br>21/2"<br>10.86<br>25.59<br>33* 12.4<br>19.48<br>03* 16.73<br>16.14<br>21.65<br>30.7<br>111* 37.99<br>12.79<br>18.5<br>74* | Image: Constraint of the second se              | <b>30</b><br><b>37</b><br><b>30</b><br><b>37</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>3.</b><br><b>5.</b><br><b>7.</b><br><b>3.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>3.</b><br><b>12.</b><br><b>6.</b><br><b>5.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>5.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>6.</b><br><b>7.</b><br><b>12.</b><br><b>7.</b><br><b>12.</b><br><b>17.</b><br><b>12.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b><br><b>17.</b>   | <b>100</b><br>4"<br>13.85<br>29.72<br>14.17<br>15.9*<br>19.48<br>19.68<br>25.03<br>16.14<br>25.78<br>35.23<br>43.89<br>34.4*<br>15.35<br>22.63<br>5.74*<br>10.35 | 6"<br>17.75<br>36.22<br>16.92<br>24.8<br>* 24.21<br>18.7<br>30.31<br>44.09<br>53.14<br>18.5<br>27.16 | 200<br>8"<br>21.37<br>41.33<br>18.7<br>24.8<br>27.36<br>18.7<br>33.46<br>49.21<br>60.03<br>23.62          | 10<br>26.<br>49.<br>21.<br>24<br>31.<br>18<br>40.<br>57.<br>71.<br>37.       |
| Overall dimension<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B<br>C<br>D<br>E<br>F<br>G<br>H<br>K<br>P<br>L<br>L<br>M<br>N<br>N<br>Tubing Connections<br>*indicated Dimensions                        | 25   | 2"<br>10<br>21.65<br>11.81 6.<br>14.76<br>15.35 10<br>13.77<br>18.89<br>25.19<br>33.46 20<br>11.61<br>15.74<br>5.<br>8.<br>4.   | 65<br>21/2"<br>10.86<br>25.59<br>33* 12.4<br>19.48<br>03* 16.73<br>16.14<br>21.65<br>30.7<br>111* 37.99<br>12.79<br>18.5<br>74* | Image: Constraint of the second se              | <b>30</b><br><b>37</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b><br><b>3.</b> | <b>100</b><br>4"<br>13.85<br>29.72<br>14.17<br>15.9*<br>19.48<br>19.68<br>25.03<br>16.14<br>25.78<br>35.23<br>43.89<br>34.4*<br>15.35<br>22.63<br>5.74*<br>10.35 | 6"<br>17.75<br>36.22<br>16.92<br>24.8<br>* 24.21<br>18.7<br>30.31<br>44.09<br>53.14<br>18.5<br>27.16 | 200<br>8"<br>21.37<br>41.33<br>18.7<br>24.8<br>27.36<br>18.7<br>33.46<br>49.21<br>60.03<br>23.62          | 10<br>26.<br>49.<br>21.<br>24<br>31.<br>18<br>40.<br>57.<br>71.<br>37.       |
| Overall dimension<br>Size (mm)<br>Inches<br>S - Ansi 150/PN 16<br>A<br>B<br>C<br>D<br>E<br>F<br>G<br>H<br>K<br>P<br>L<br>K<br>P<br>L<br>M<br>N<br>Tubing Connections  | 25   | 2"<br>10<br>21.65<br>11.81 6.<br>14.76<br>15.35 10<br>13.77<br>18.89<br>25.19<br>33.46 20<br>11.61<br>15.74<br>5.<br>8.<br>4.   | <ul> <li></li></ul>   | Image: Constraint of the second se              | <b>30</b><br>37<br>37<br>3.17<br>3.18<br>7.28*<br>3.48<br>7.51<br>12.67*<br>3.14<br>3.03<br>0.9<br>2.75<br>2.79<br>3.88<br>5.74*<br>9.68*<br>5.11*<br>NPT   | <b>100</b><br>4"<br>13.85<br>29.72<br>14.17<br>15.9*<br>19.48<br>19.68<br>25.03<br>16.14<br>25.78<br>35.23<br>43.89<br>34.4*<br>15.35<br>22.63<br>5.74*<br>10.35 | 6"<br>17.75<br>36.22<br>16.92<br>24.8<br>* 24.21<br>18.7<br>30.31<br>44.09<br>53.14<br>18.5<br>27.16 | 200<br>8"<br>21.37<br>41.33<br>18.7<br>24.8<br>27.36<br>18.7<br>33.46<br>49.21<br>60.03<br>23.62<br>30.31 | 25<br>10<br>26.<br>49.0<br>21.0<br>24.<br>31.<br>37.<br>27.3<br>27.3         |

# REVAL 182 + DB/182+ PM/182

Reval 182





### **Overall dimensions in inches**

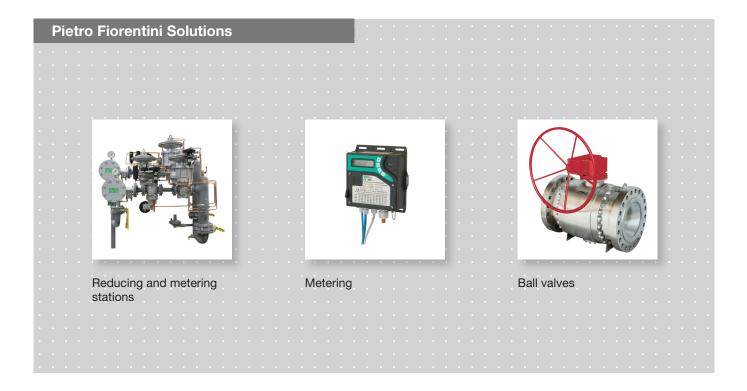
| Size (mm)          | 25    | 50    | 65    | 80       | 100   | 150   | 200   |
|--------------------|-------|-------|-------|----------|-------|-------|-------|
| Inches             | 1"    | 2"    | 2"1/2 | 3"       | 4"    | 6"    | 8"    |
| S - Ansi 150/PN 16 | 27.56 | 10    | 10,86 | 11,73    | 13,85 | 17,75 | 21,37 |
| A                  | 20,47 | 21,65 | 25,59 | 26,57    | 29,72 | 36,22 | 41,33 |
| В                  | 10,23 | 11,41 | 14,56 | 14,96    | 16,14 | 19,29 | 23,22 |
| С                  | 14,76 | 14,76 | 19,48 | 19,48    | 19,48 | 24,8  | 24,8  |
| D                  | 16,14 | 16,92 | 20,86 | 20,86    | 23,62 | 28,93 | 33,46 |
| E                  | 13,77 | 13,77 | 16,14 | 16,14    | 16,14 | 18,7  | 18,7  |
| F                  | 17,71 | 18,89 | 21,65 | 23,03    | 25,78 | 30,31 | 33,46 |
| G                  | 24,01 | 25,19 | 30,7  | 30,9     | 35,23 | 44,09 | 49,21 |
| н                  | 30,7  | 33,07 | 40,15 | 41,53    | 45,86 | 55,51 | 64,56 |
| L                  | 10,23 | 11,61 | 13,38 | 13,77    | 14,96 | 16,14 | 18,11 |
| M                  | 13,77 | 13,77 | 16,14 | 16,14    | 16,14 | 18,7  | 18,7  |
| K                  | 8,46  | 11,61 | 12,79 | 12,79    | 15,35 | 18,5  | 23,62 |
| Р                  | 14,56 | 15,74 | 18,5  | 19,88    | 22,63 | 27,16 | 30,31 |
| Tubing Connections |       |       |       | 1/4" NPT |       |       |       |

#### Tubing Connections

Face to face dimensions S according to ANSI, IEC 534-3 and EN 334

#### Weights in Lbs

| <b>S - Ansi 150/PN 16</b> 143 240 253 313 480 879 1.391 |  |
|---|--|
|---|--|





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This data is not binding. We reserve the right to make changes without prior notice.

CT-s 503-US Ottober 13