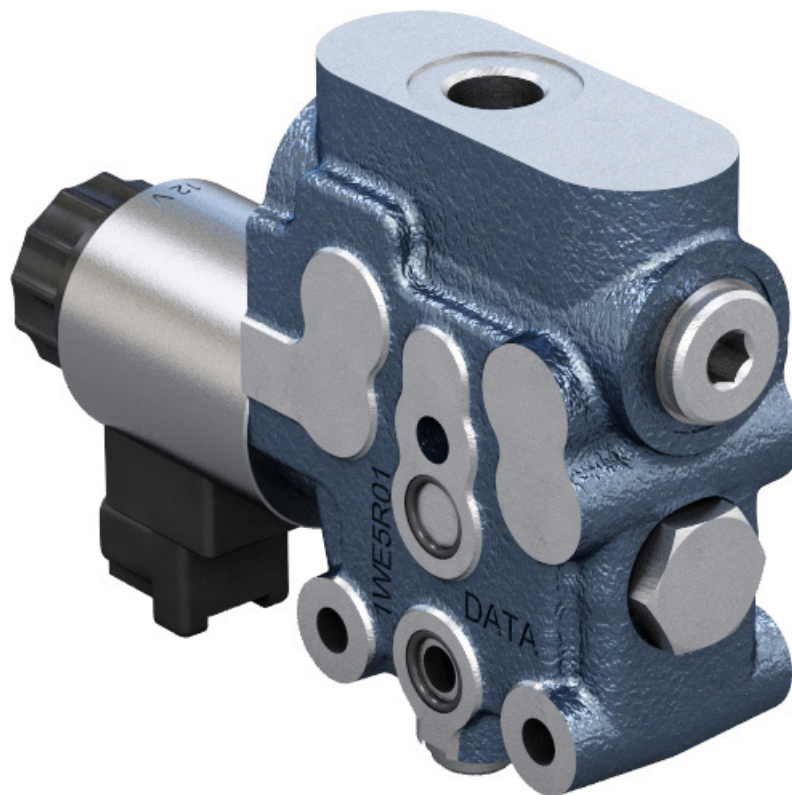
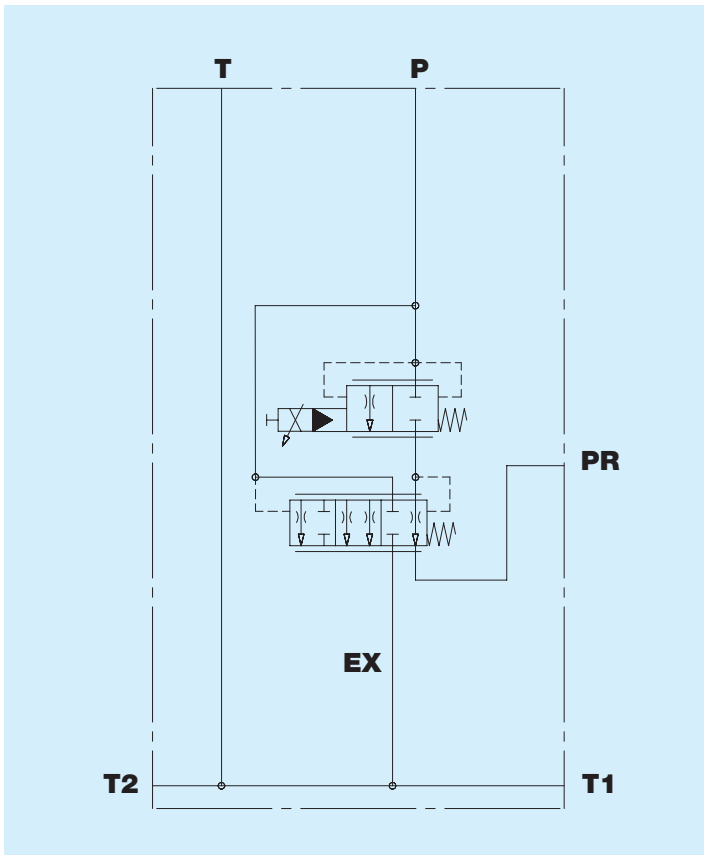


RF0500BP Proportional compensated flow rate control  
cover with excess on unloading  
Interface IBW0500

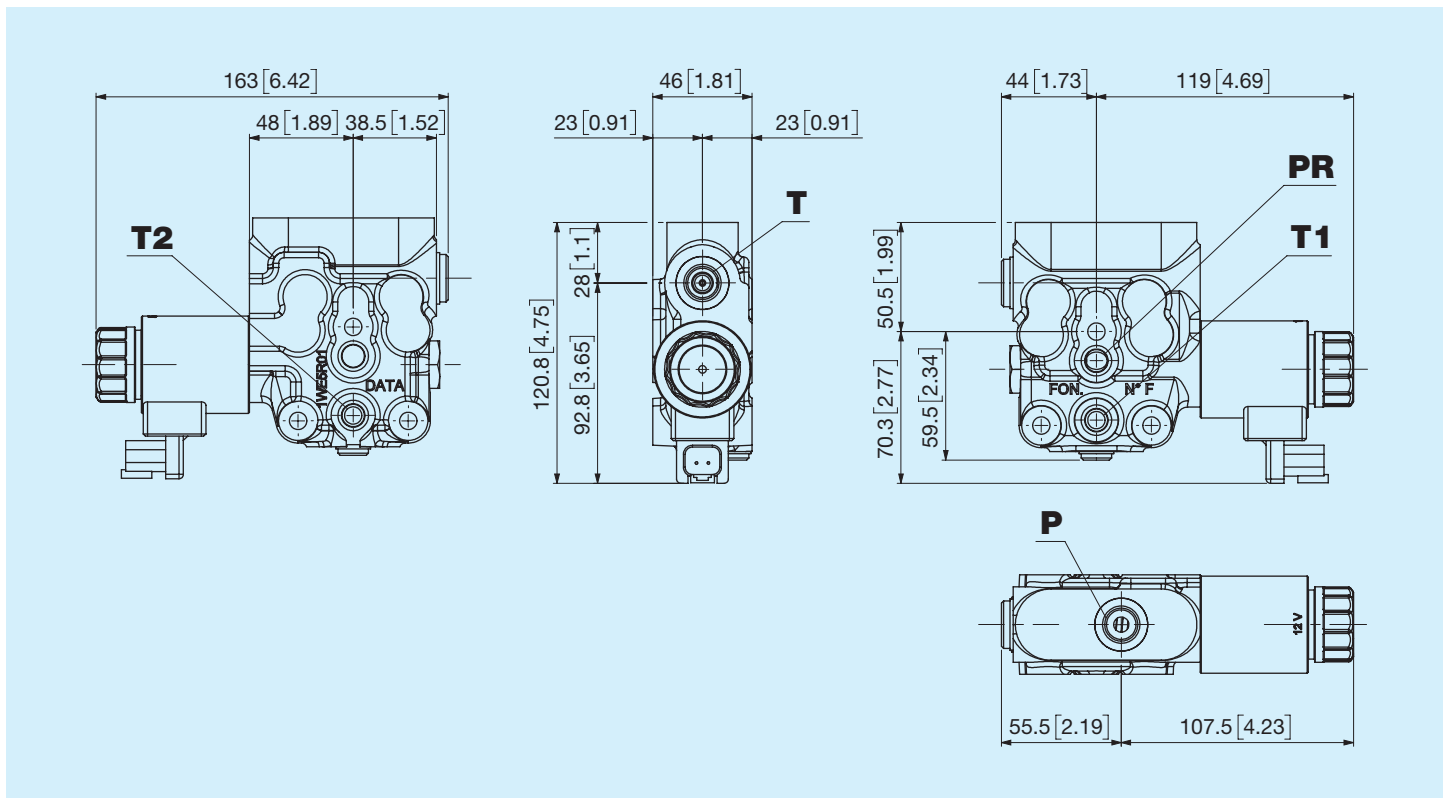


Before use, carefully read the GENERAL INSTRUCTIONS FOR USE OF DIRECTIONAL CONTROL VALVES

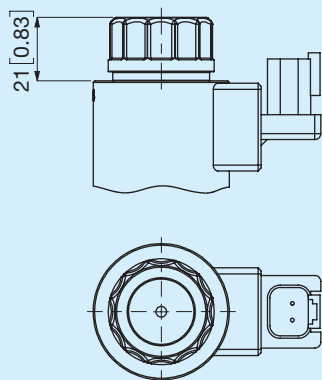
|                       |                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------|
| Nominal flow          | <b>50 l/min</b><br><b>13.2 US gpm</b>                                                       |
| Nominal pressure      | <b>250 bar</b><br><b>3625 psi</b>                                                           |
| Maximum tank pressure | <b>50 bar</b><br><b>725 psi</b>                                                             |
| Regulated flow rate   | <b>40 l/min - 10.56 US gpm</b><br><b>20 l/min - 5.28 US gpm</b>                             |
| Temperature range     | <b>-20°C +85°C NBR seals</b><br><b>(max peak +100°C)</b><br><b>-20°C + 130°C HNBR seals</b> |
| Oil viscosity         | <b>from 15 mm<sup>2</sup>/s to 90 mm<sup>2</sup>/s</b><br><b>(15 cSt to 90 cSt)</b>         |
| Fluid                 | <b>Hydraulic fluids as defined in ISO 6743-4 standard</b>                                   |
| Weight                | <b>2.6 kg</b><br><b>5.73 lb</b>                                                             |
| Interface             | <b>IBW0500</b>                                                                              |



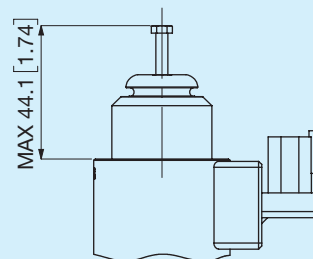
## Dimensions



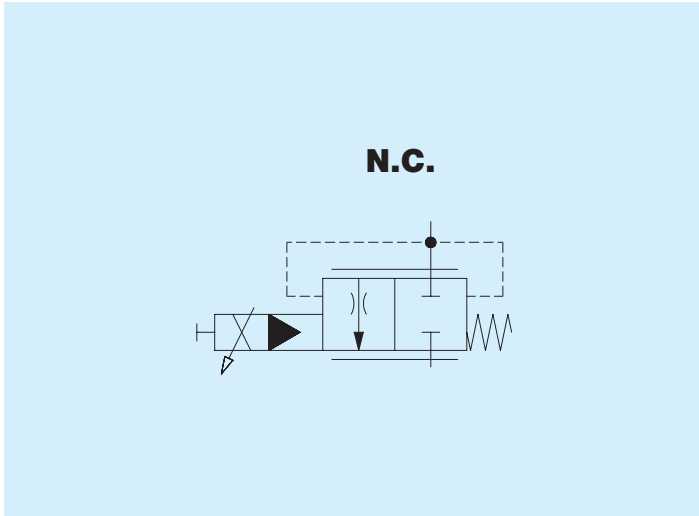
## **S** Standard



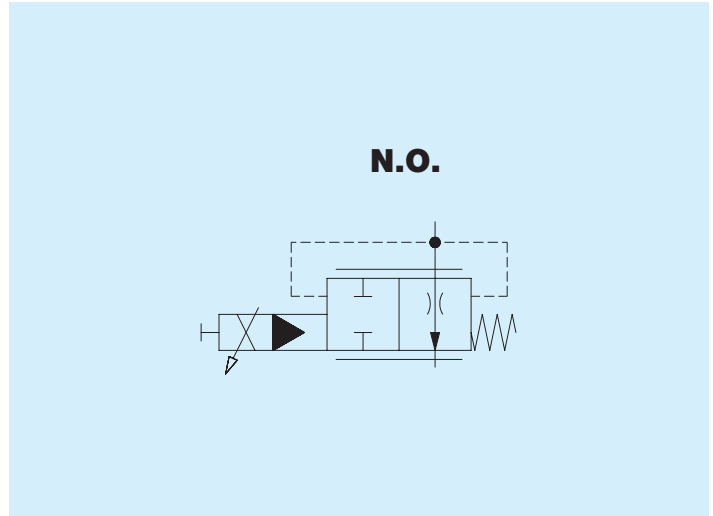
## **E** Emergency screw



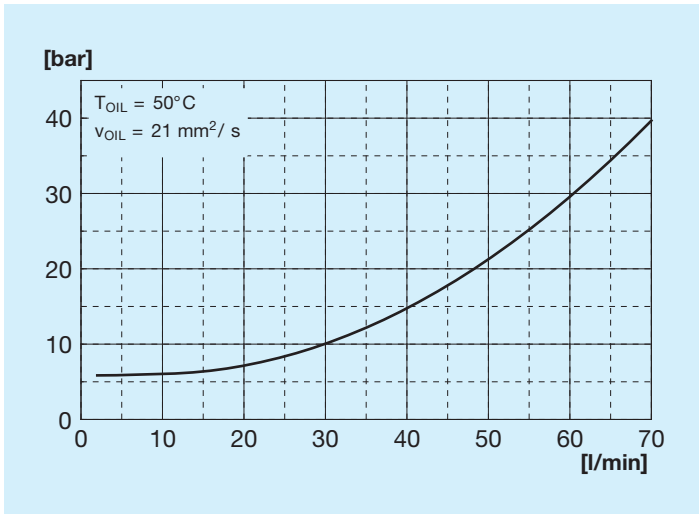
## A B 2-way priority cursor N.C.



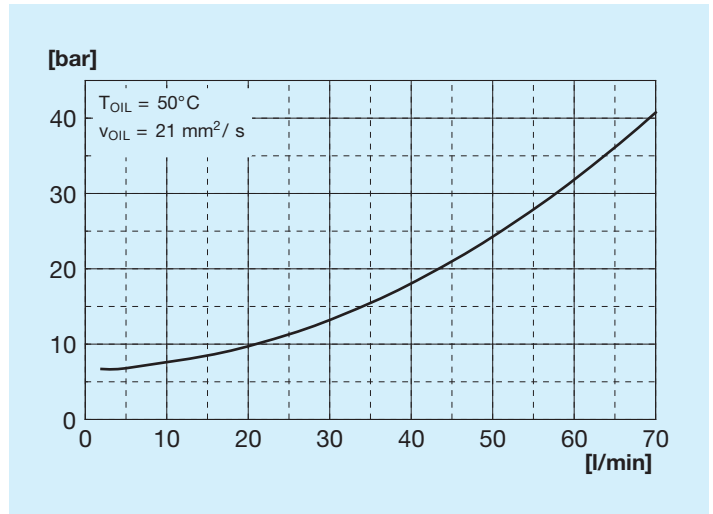
## C 2-way priority cursor N.O.



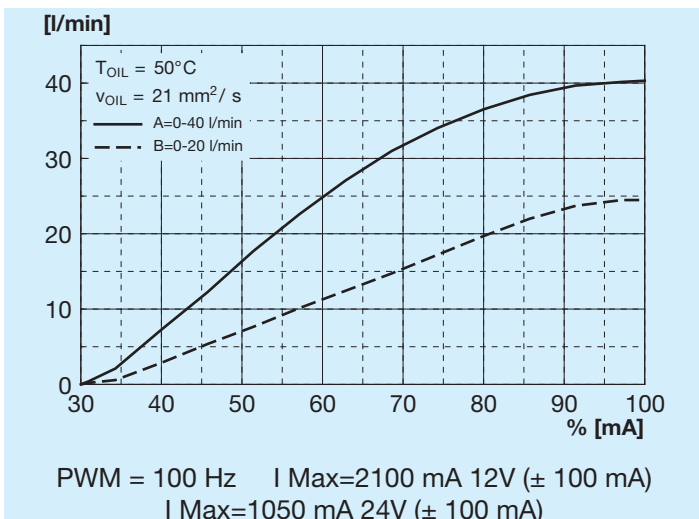
## $\Delta P$ P - EX 2-way priority cursor N.C.



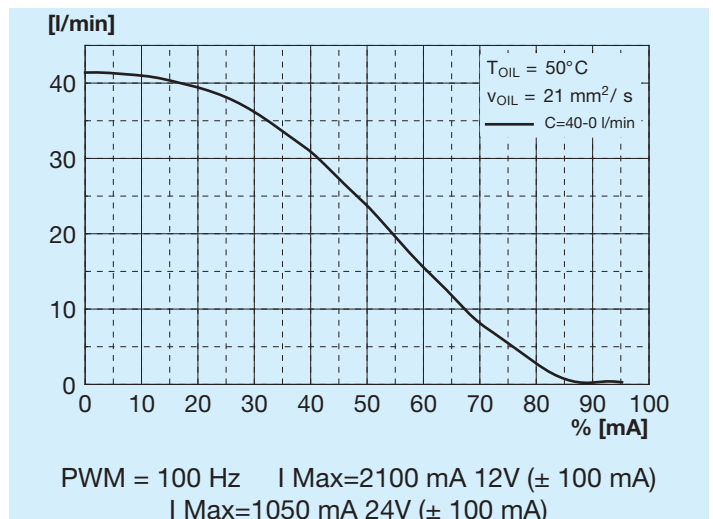
## $\Delta P$ P - EX 2-way priority cursor N.O.



## 2-way priority metering cursor N.C.



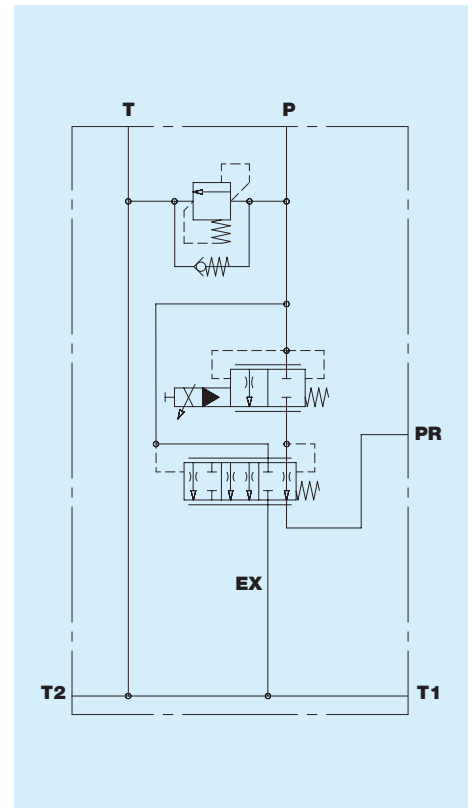
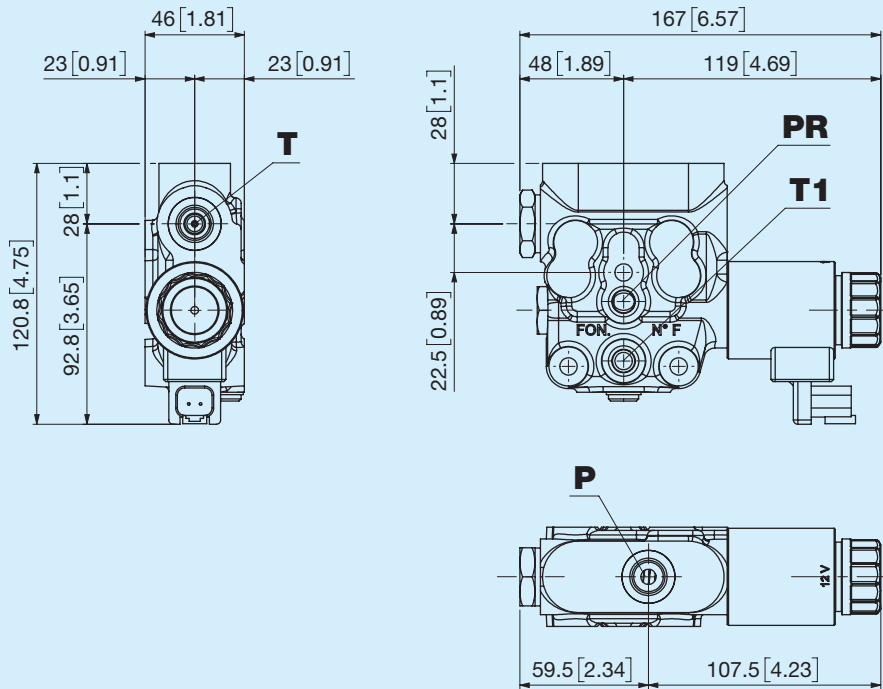
## 2-way priority metering cursor N.O.



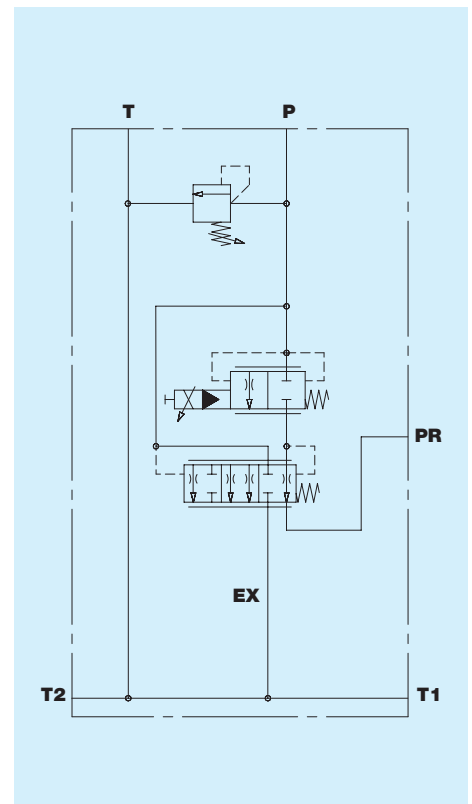
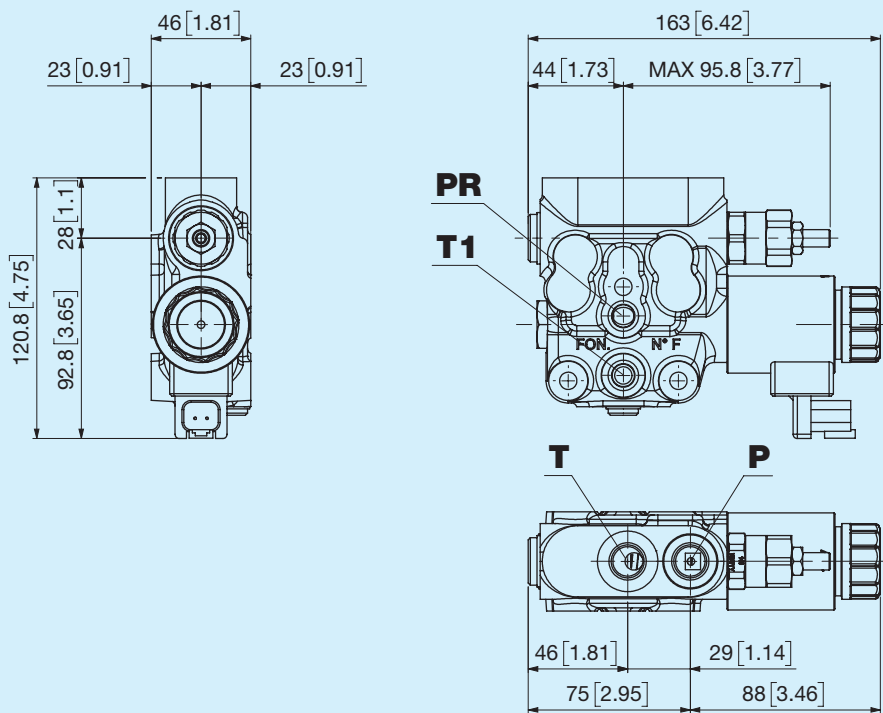
## Thread ports P - T

| Model    | Type                  | Torque<br>Nm |
|----------|-----------------------|--------------|
| <b>A</b> | 3/8" GAS ISO 1179     | 40           |
| <b>C</b> | M18x1.5 ISO 9974      | 40           |
| <b>W</b> | M18x1.5 ISO 6149      | 40           |
| <b>E</b> | 3/4" 16 SAE ISO 11926 | 50           |

## A RC Pressure limiter and anticavitation cartridge



## B VL Adjustable pressure limiting valve





|                  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2                 | 3                 | 4 | 5 | 6 | 7 | 8 | 9 |                |                  |                   |                   |                  |                  |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---|---|---|---|---|---|----------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|
| <b>RF0500BP</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |                   |   |   |   |   |   |   |                |                  |                   |                   |                  |                  |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |
| 1                | <b>Actuator options</b><br><b>S</b> Standard <b>E</b> Emergency screw                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                   |   |   |   |   |   |   |                |                  |                   |                   |                  |                  |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |
| 2                | <b>Regulated flow rate</b><br><b>A</b> N.C. Normally closed 0 - 40 l/min 0 - 10.56 US <b>B</b> N.C. Normally closed 0 - 20 l/min 0 - 5.28 US gpm <b>C</b> N.O. Normally open 40 - 0 l/min 10.56 - 0 US                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                   |   |   |   |   |   |   |                |                  |                   |                   |                  |                  |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |
| 3                | <b>Thread type</b><br><b>F</b> Female <b>M</b> Male                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                   |   |   |   |   |   |   |                |                  |                   |                   |                  |                  |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |
| 4                | <b>Thread ports P - T</b><br><b>A</b> 3/8" GAS ISO 1179 <b>C</b> M18x1.5 ISO 9974 <b>W</b> M18x1.5 ISO 6149 <b>E</b> 3/4" - 16 SAE ISO 11926                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                   |   |   |   |   |   |   |                |                  |                   |                   |                  |                  |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |
| 5                | <b>Options line P</b><br><b>N</b> None <b>A</b> RC Pressure limiter and anticavitation cartridge <b>B</b> VL Adjustable pressure limiting valve                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |                   |   |   |   |   |   |   |                |                  |                   |                   |                  |                  |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |
| 6 7              | <b>Calibration pressure VL/RC</b><br><table border="1"> <tbody> <tr> <td><b>NN</b> None</td> <td><b>08</b> 80 bar</td> <td><b>14</b> 140 bar</td> <td><b>20</b> 200 bar</td> </tr> <tr> <td><b>03</b> 30 bar</td> <td><b>09</b> 90 bar</td> <td><b>15</b> 150 bar</td> <td><b>21</b> 210 bar</td> </tr> <tr> <td><b>04</b> 40 bar</td> <td><b>10</b> 100 bar</td> <td><b>16</b> 160 bar</td> <td><b>22</b> 220 bar</td> </tr> <tr> <td><b>05</b> 50 bar</td> <td><b>11</b> 110 bar</td> <td><b>17</b> 170 bar</td> <td><b>23</b> 230 bar</td> </tr> <tr> <td><b>06</b> 60 bar</td> <td><b>12</b> 120 bar</td> <td><b>18</b> 180 bar</td> <td><b>24</b> 240 bar</td> </tr> <tr> <td><b>07</b> 70 bar</td> <td><b>13</b> 130 bar</td> <td><b>19</b> 190 bar</td> <td><b>25</b> 250 bar</td> </tr> </tbody> </table> |                   |                   |   |   |   |   |   |   | <b>NN</b> None | <b>08</b> 80 bar | <b>14</b> 140 bar | <b>20</b> 200 bar | <b>03</b> 30 bar | <b>09</b> 90 bar | <b>15</b> 150 bar | <b>21</b> 210 bar | <b>04</b> 40 bar | <b>10</b> 100 bar | <b>16</b> 160 bar | <b>22</b> 220 bar | <b>05</b> 50 bar | <b>11</b> 110 bar | <b>17</b> 170 bar | <b>23</b> 230 bar | <b>06</b> 60 bar | <b>12</b> 120 bar | <b>18</b> 180 bar | <b>24</b> 240 bar | <b>07</b> 70 bar | <b>13</b> 130 bar | <b>19</b> 190 bar | <b>25</b> 250 bar |
| <b>NN</b> None   | <b>08</b> 80 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>14</b> 140 bar | <b>20</b> 200 bar |   |   |   |   |   |   |                |                  |                   |                   |                  |                  |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |
| <b>03</b> 30 bar | <b>09</b> 90 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>15</b> 150 bar | <b>21</b> 210 bar |   |   |   |   |   |   |                |                  |                   |                   |                  |                  |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |
| <b>04</b> 40 bar | <b>10</b> 100 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>16</b> 160 bar | <b>22</b> 220 bar |   |   |   |   |   |   |                |                  |                   |                   |                  |                  |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |
| <b>05</b> 50 bar | <b>11</b> 110 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>17</b> 170 bar | <b>23</b> 230 bar |   |   |   |   |   |   |                |                  |                   |                   |                  |                  |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |
| <b>06</b> 60 bar | <b>12</b> 120 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>18</b> 180 bar | <b>24</b> 240 bar |   |   |   |   |   |   |                |                  |                   |                   |                  |                  |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |
| <b>07</b> 70 bar | <b>13</b> 130 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>19</b> 190 bar | <b>25</b> 250 bar |   |   |   |   |   |   |                |                  |                   |                   |                  |                  |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |
| 8                | <b>Voltage and connector</b><br><b>A</b> 12V DIN 43650 <b>B</b> 24V DIN 43650 <b>G</b> 12V Deutsch <b>H</b> 24V Deutsch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                   |   |   |   |   |   |   |                |                  |                   |                   |                  |                  |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |
| 9                | <b>External treatment</b><br><b>A</b> External treatment <b>N</b> None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                   |   |   |   |   |   |   |                |                  |                   |                   |                  |                  |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |                  |                   |                   |                   |