

# FlowCon AB 15-50mm

*Dynamic Balancing Valve - Adjustable Cartridge*



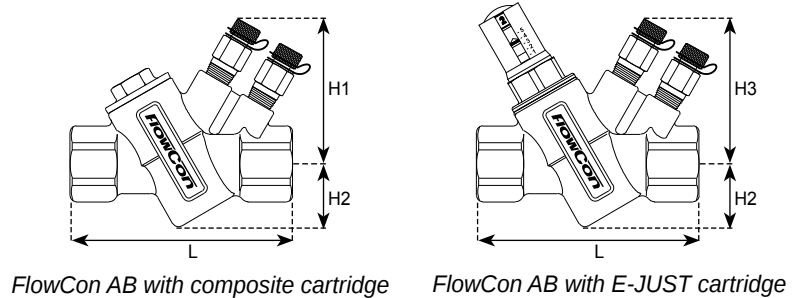
## SPECIFICATIONS

|                            |                                                                                                          |
|----------------------------|----------------------------------------------------------------------------------------------------------|
| Pressure rating:           | 2500 kPa / 360 psi                                                                                       |
| Temperature rating, media: | -20°C to +120°C / -4°F to +248°F                                                                         |
| Material:                  |                                                                                                          |
| - Cartridge:               | Composite cartridges: POM (Polyoxymethylene)<br>E-JUST cartridges: PSU (Polysulfone)                     |
| - Diaphragm:               | Hydrogenated acrylonitrile-butadiene-rubber or EPDM depending on type                                    |
| - Body:                    | Forged brass ASTM CuZn40Pb2                                                                              |
| - O-rings:                 | EPDM                                                                                                     |
| End connections:           | Fixed female ISO or NPT                                                                                  |
| Body tappings:             | 1/4" ISO                                                                                                 |
| Flow rate range:           | 0.0081 l/sec - 1.43 l/sec (standard composite cartridge)<br>0.0278 l/sec - 4.48 l/sec (E-JUST cartridge) |

**DIMENSIONS AND WEIGHTS (NOMINAL) (measured in mm unless noted)**

| Valve size | Cartridge size | L   | H1 | H2   | H3  | Weight (kgs.) | Kv <sup>1</sup> (m³/hr) |
|------------|----------------|-----|----|------|-----|---------------|-------------------------|
| 15         | 20             | 82  | 66 | 31   | 78  | 0.51          | 2.6                     |
| 20         |                | 94  |    |      |     | 0.56          |                         |
| 25         |                | 102 |    |      |     | 0.62          |                         |
| 25         | 40             | 128 | 83 | 47   | 99  | 2.00          | 12.5                    |
| 32         |                |     |    |      |     | 1.80          |                         |
| 40         | 50             | 169 | -  | 54.5 | 117 | 4.00          | 23.0                    |
| 50         |                |     |    |      |     | 3.50          |                         |

Note 1: For valve body.



## MODEL NUMBER SELECTION<sup>2</sup>

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|
| Insert body size:<br><b>15</b> =female threaded end 15mm <b>20</b> =female threaded end 20mm <b>25</b> =female threaded end 25mm<br><b>32</b> =female threaded end 32mm <b>40</b> =female threaded end 40mm <b>50</b> =female threaded end 50mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | AB |
| Leave it <b>blank</b> if taps open <b>B</b> =pressure temperature plugs <b>P</b> =taps plugged                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |    |
| Insert connection standard:<br><b>I</b> =ISO, 15-50mm (except 25mm (20mm cartridge)) <b>N</b> =NPT, 15-32mm <b>I.K</b> =ISO, 25mm (20mm cartridge)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |    |
| Insert a kPaD control range:<br><b>0</b> if no cartridge required<br><b>Y</b> = 15-130 kPaD (20mm standard composite cartridge)<br>17-200 kPaD (20mm E-JUST red - white pawl)<br>17-210 kPaD (20mm E-JUST black or green - white pawl)<br>17-400 kPaD (40mm E-JUST - white pawl)<br><b>G</b> = 20-400 kPaD (50mm E-JUST - grey pawl)<br>30-400 kPaD (20mm standard composite cartridge)<br>30-400 kPaD (20mm E-JUST red - grey pawl)<br>35-400 kPaD (20mm E-JUST black or green - grey pawl)<br><b>X</b> = 15-130 kPaD (40mm standard composite cartridge)<br><b>C</b> = 22-300 kPaD (40mm standard composite cartridge)<br><b>D</b> = 30-410 kPaD (40mm standard composite cartridge)<br>(Determine from cartridge selection chart) |  |    |
| Insert automatic flow limiting cartridge code:<br><b>0</b> if no cartridge required<br><b>Y</b> =grey<br><b>R</b> =red<br><b>U</b> =blue<br><b>B</b> =black (B= standard code for E-JUST 40mm and 50 mm)<br><b>G</b> =green<br><b>W</b> =white<br>(Determine from cartridge selection chart)                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |    |
| Insert cartridge dial setting/type:<br><b>1 to 8</b> =dial setting on standard composite cartridge<br><b>0</b> =standard pre-setting of 2 on standard composite cartridge<br><b>E</b> =E-JUST cartridge<br>(Determine from cartridge selection chart)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |    |

Example: AB20.B.I.Y.Y.0=AB 20mm ISO female threaded body with p/t plugs and a Y-type grey standard composite cartridge - pre-setting 2.

Note 2: Flow rate, color and dial setting of cartridge are indicated on label affixed to body.

## FLOW RATE SETTING - COMPOSITE CARTRIDGE - FOR VALVES DN15-DN25 SMALL

| 20mm · 3/4" · composite cartridge · Y-type                                      |           |      |       |          |          |          |          |          |
|---------------------------------------------------------------------------------|-----------|------|-------|----------|----------|----------|----------|----------|
| Pressure range, ΔP: 20-130 kPaD (15-130 kPaD)* · 2.9-18.9 psid (2.2-18.9 psid)* |           |      |       |          |          |          |          |          |
|                                                                                 | Model no. |      |       | ABV1.Y.Y | ABV1.Y.R | ABV1.Y.U | ABV1.Y.B | ABV1.Y.G |
| Nominal flow rate                                                               | l/sec     | l/hr | GPM   | Grey*    | Red      | Blue     | Black    | Green    |
|                                                                                 | 0.0081    | 29.2 | 0.128 | 1        |          |          |          |          |
|                                                                                 | 0.0133    | 47.9 | 0.211 | 2        |          |          |          |          |
|                                                                                 | 0.0175    | 63.0 | 0.277 | 3        |          |          |          |          |
|                                                                                 | 0.0222    | 79.9 | 0.352 | 4        |          |          |          |          |
|                                                                                 | 0.0311    | 112  | 0.493 | 5        |          |          |          |          |
|                                                                                 | 0.0353    | 127  | 0.560 | 6        |          |          |          |          |
|                                                                                 | 0.0383    | 138  | 0.607 | 7        |          |          |          |          |
|                                                                                 | 0.0431    | 155  | 0.683 | 8        |          |          |          |          |
|                                                                                 | 0.0450    | 162  | 0.713 |          |          |          | 3        |          |
|                                                                                 | 0.0575    | 207  | 0.911 |          | 4        |          |          |          |
|                                                                                 | 0.0619    | 223  | 0.981 |          |          | 4        |          |          |
|                                                                                 | 0.0669    | 241  | 1.06  |          |          |          | 4        |          |
|                                                                                 | 0.0922    | 332  | 1.46  |          | 5        |          |          |          |
|                                                                                 | 0.0978    | 352  | 1.55  |          |          |          |          | 1        |
|                                                                                 | 0.105     | 378  | 1.66  |          | 6        |          |          |          |
|                                                                                 | 0.114     | 409  | 1.80  |          | 7        |          |          |          |
|                                                                                 | 0.115     | 415  | 1.83  |          |          | 5        |          |          |
|                                                                                 | 0.118     | 426  | 1.88  |          |          |          |          | 2        |
|                                                                                 | 0.119     | 430  | 1.89  |          | 8        |          |          |          |
|                                                                                 | 0.136     | 489  | 2.15  |          |          |          |          | 3        |
|                                                                                 | 0.137     | 492  | 2.17  |          |          | 6        |          |          |
|                                                                                 | 0.138     | 498  | 2.19  |          |          |          |          | 4        |
|                                                                                 | 0.146     | 524  | 2.31  |          |          | 7        |          |          |
|                                                                                 | 0.146     | 526  | 2.32  |          |          | 8        |          |          |
|                                                                                 | 0.155     | 557  | 2.45  |          |          |          | 5        |          |
|                                                                                 | 0.176     | 635  | 2.80  |          |          |          | 6        |          |
|                                                                                 | 0.180     | 647  | 2.85  |          |          |          | 7        |          |
|                                                                                 | 0.193     | 695  | 3.06  |          |          |          | 8        |          |
|                                                                                 | 0.231     | 830  | 3.66  |          |          |          |          | 5        |
|                                                                                 | 0.237     | 854  | 3.76  |          |          |          |          | 6        |
|                                                                                 | 0.253     | 909  | 4.00  |          |          |          |          | 7        |
|                                                                                 | 0.273     | 984  | 4.33  |          |          |          |          | 8        |

Accuracy: Greatest of either ±10% of controlled flow rate or 20 l/hr (0.0056 l/sec or 0.088 GPM).

| 20mm · 3/4" · composite cartridge · G-type                                  |           |      |       |          |          |          |          |          |
|-----------------------------------------------------------------------------|-----------|------|-------|----------|----------|----------|----------|----------|
| Pressure range, ΔP: 40-400 kPaD (30-400 kPaD)* · 5.8-58 psid (4.4-58 psid)* |           |      |       |          |          |          |          |          |
|                                                                             | Model no. |      |       | ABV1.G.Y | ABV1.G.R | ABV1.G.U | ABV1.G.B | ABV1.G.G |
| Nominal flow rate                                                           | l/sec     | l/hr | GPM   | Grey*    | Red      | Blue     | Black    | Green    |
|                                                                             | 0.0117    | 42.1 | 0.185 | 1        |          |          |          |          |
|                                                                             | 0.0189    | 68.0 | 0.300 | 2        |          |          |          |          |
|                                                                             | 0.0247    | 88.9 | 0.392 | 3        |          |          |          |          |
|                                                                             | 0.0325    | 117  | 0.515 | 4        |          |          |          |          |
|                                                                             | 0.0472    | 170  | 0.748 | 5        |          |          |          |          |
|                                                                             | 0.0528    | 190  | 0.837 | 6        |          |          |          |          |
|                                                                             | 0.0564    | 203  | 0.894 |          |          | 3        |          |          |
|                                                                             | 0.0597    | 215  | 0.946 |          |          |          | 3        |          |
|                                                                             | 0.0639    | 230  | 1.01  | 7        |          |          |          |          |
|                                                                             | 0.0694    | 250  | 1.10  | 8        |          |          |          |          |
|                                                                             | 0.0781    | 281  | 1.24  |          | 4        |          |          |          |
|                                                                             | 0.0908    | 327  | 1.44  |          |          | 4        |          |          |
|                                                                             | 0.0958    | 345  | 1.52  |          |          |          | 4        |          |
|                                                                             | 0.137     | 493  | 2.17  |          | 5        |          |          |          |
|                                                                             | 0.147     | 529  | 2.33  |          |          |          |          | 1        |
|                                                                             | 0.161     | 581  | 2.56  |          | 6        |          |          |          |
|                                                                             | 0.173     | 624  | 2.75  |          | 7        |          |          |          |
|                                                                             | 0.181     | 652  | 2.87  |          |          | 5        |          |          |
|                                                                             | 0.181     | 653  | 2.88  |          | 8        |          |          |          |
|                                                                             | 0.186     | 670  | 2.95  |          |          |          |          | 2        |
|                                                                             | 0.210     | 755  | 3.32  |          |          |          |          | 3        |
|                                                                             | 0.216     | 779  | 3.43  |          |          | 6        |          |          |
|                                                                             | 0.218     | 785  | 3.46  |          |          | 7        |          |          |
|                                                                             | 0.220     | 792  | 3.49  |          |          | 8        |          |          |
|                                                                             | 0.237     | 853  | 3.75  |          |          |          | 5        |          |
|                                                                             | 0.241     | 869  | 3.83  |          |          |          |          | 4        |
|                                                                             | 0.266     | 957  | 4.21  |          |          |          | 6        |          |
|                                                                             | 0.269     | 968  | 4.26  |          |          |          | 7        |          |
|                                                                             | 0.277     | 998  | 4.39  |          |          |          | 8        |          |
|                                                                             | 0.365     | 1320 | 5.79  |          |          |          |          | 5        |
|                                                                             | 0.369     | 1330 | 5.85  |          |          |          |          | 6        |
|                                                                             | 0.392     | 1410 | 6.21  |          |          |          |          | 7        |
|                                                                             | 0.408     | 1470 | 6.46  |          |          |          |          | 8        |

Accuracy: Greatest of either ±10% of controlled flow rate or 20 l/hr (0.0056 l/sec or 0.088 GPM).



## FLOW RATE SETTING - COMPOSITE CARTRIDGE - FOR VALVES DN25 LARGE AND DN32

| 40mm · 1 1/2" · composite cartridge · X-type    |       |           |          |          |     |
|-------------------------------------------------|-------|-----------|----------|----------|-----|
| Pressure range, ΔP: 15-130 kPaD · 2.2-18.9 psid |       |           |          |          |     |
|                                                 |       | Model no. | ABV2.X.W | ABV2.X.R |     |
| Nominal flow rate                               | l/sec | l/hr      | GPM      | White    | Red |
|                                                 | 0.17  | 612       | 2.69     | 1        |     |
|                                                 | 0.23  | 828       | 3.64     | 2        |     |
|                                                 | 0.26  | 936       | 4.12     |          | 1   |
|                                                 | 0.33  | 1190      | 5.23     | 3        |     |
|                                                 | 0.38  | 1370      | 6.02     | 4        |     |
|                                                 | 0.39  | 1400      | 6.18     |          | 2   |
|                                                 | 0.48  | 1730      | 7.61     | 5        | 3   |
|                                                 | 0.54  | 1940      | 8.56     | 6        |     |
|                                                 | 0.62  | 2230      | 9.83     | 7        |     |
|                                                 | 0.63  | 2270      | 9.99     |          | 4   |
|                                                 | 0.66  | 2380      | 10.5     | 8        |     |
|                                                 | 0.67  | 2410      | 10.6     |          | 5   |
|                                                 | 0.76  | 2740      | 12.0     |          | 6   |
|                                                 | 0.85  | 3060      | 13.5     |          | 7   |



Accuracy: Greatest of either ±10% of controlled flow rate or 20 l/hr (0.0056 l/sec or 0.088 GPM).

| 40mm · 1 1/2" · composite cartridge · C-type    |       |           |          |          |     |
|-------------------------------------------------|-------|-----------|----------|----------|-----|
| Pressure range, ΔP: 22-300 kPaD · 3.2-43.5 psid |       |           |          |          |     |
|                                                 |       | Model no. | ABV2.C.W | ABV2.C.R |     |
| Nominal flow rate                               | l/sec | l/hr      | GPM      | White    | Red |
|                                                 | 0.23  | 828       | 3.65     | 1        |     |
|                                                 | 0.31  | 1120      | 4.91     | 2        |     |
|                                                 | 0.38  | 1370      | 6.02     |          | 1   |
|                                                 | 0.42  | 1510      | 6.66     | 3        |     |
|                                                 | 0.47  | 1690      | 7.45     | 4        |     |
|                                                 | 0.50  | 1800      | 7.93     |          | 2   |
|                                                 | 0.60  | 2160      | 9.51     | 5        |     |
|                                                 | 0.64  | 2300      | 10.1     |          | 3   |
|                                                 | 0.68  | 2450      | 10.8     | 6        |     |
|                                                 | 0.78  | 2810      | 12.4     | 7        |     |
|                                                 | 0.83  | 2990      | 13.2     |          | 4   |
|                                                 | 0.84  | 3020      | 13.3     | 8        |     |
|                                                 | 0.90  | 3240      | 14.3     |          | 5   |
|                                                 | 1.07  | 3850      | 17.0     |          | 6   |
|                                                 | 1.17  | 4210      | 18.5     |          | 7   |
|                                                 | 1.21  | 4360      | 19.2     |          | 8   |

Accuracy: Greatest of either ±10% of controlled flow rate or 20 l/hr (0.0056 l/sec or 0.088 GPM).

| 40mm · 1 1/2" · composite cartridge · D-type    |       |           |          |          |     |
|-------------------------------------------------|-------|-----------|----------|----------|-----|
| Pressure range, ΔP: 30-410 kPaD · 4.4-59.5 psid |       |           |          |          |     |
|                                                 |       | Model no. | ABV2.D.W | ABV2.D.R |     |
| Nominal flow rate                               | l/sec | l/hr      | GPM      | White    | Red |
|                                                 | 0.27  | 972       | 4.28     | 1        |     |
|                                                 | 0.36  | 1300      | 5.71     | 2        |     |
|                                                 | 0.44  | 1580      | 6.97     |          | 1   |
|                                                 | 0.52  | 1870      | 8.24     | 3        |     |
|                                                 | 0.58  | 2090      | 9.19     | 4        |     |
|                                                 | 0.60  | 2160      | 9.51     |          | 2   |
|                                                 | 0.74  | 2660      | 11.7     | 5        |     |
|                                                 | 0.76  | 2740      | 12.0     |          | 3   |
|                                                 | 0.83  | 2990      | 13.2     | 6        |     |
|                                                 | 0.93  | 3350      | 14.7     | 7        |     |
|                                                 | 0.99  | 3560      | 15.7     | 8        | 4   |
|                                                 | 1.07  | 3850      | 17.0     |          | 5   |
|                                                 | 1.28  | 4610      | 20.3     |          | 6   |
|                                                 | 1.39  | 5000      | 22.0     |          | 7   |
|                                                 | 1.43  | 5150      | 22.7     |          | 8   |

Accuracy: Greatest of either ±10% of controlled flow rate or 20 l/hr (0.0056 l/sec or 0.088 GPM).

## FLOW RATE SETTING - E-JUST CARTRIDGE - FOR VALVES DN15-DN25 SMALL

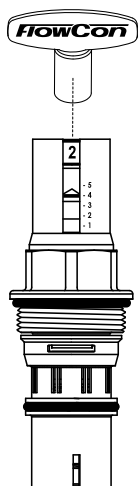
| 20mm · 3/4" · E-JUST · Y-type · White pawl    |           |      |       |             |             |
|-----------------------------------------------|-----------|------|-------|-------------|-------------|
| Pressure range, ΔP: 17-210 kPaD · 2.5-30 psid |           |      |       |             |             |
|                                               | Model no. |      |       | E-JUST1.Y.B | E-JUST1.Y.G |
|                                               | l/sec     | l/hr | GPM   | Black       | Green       |
|                                               |           |      |       | Setting     | Setting     |
| Nominal flow rate                             | 0.0278    | 100  | 0.440 | 1.0         |             |
|                                               | 0.0299    | 108  | 0.475 | 1.1         |             |
|                                               | 0.0321    | 116  | 0.509 | 1.2         |             |
|                                               | 0.0343    | 123  | 0.543 | 1.3         |             |
|                                               | 0.0364    | 131  | 0.578 | 1.4         |             |
|                                               | 0.0386    | 139  | 0.612 | 1.5         |             |
|                                               | 0.0408    | 147  | 0.646 | 1.6         |             |
|                                               | 0.0429    | 155  | 0.681 | 1.7         |             |
|                                               | 0.0436    | 157  | 0.691 |             | 1.0         |
|                                               | 0.0451    | 162  | 0.715 | 1.8         |             |
|                                               | 0.0468    | 168  | 0.741 |             | 1.1         |
|                                               | 0.0473    | 170  | 0.749 | 1.9         |             |
|                                               | 0.0494    | 178  | 0.784 | 2.0         |             |
|                                               | 0.0499    | 180  | 0.791 |             | 1.2         |
|                                               | 0.0516    | 186  | 0.818 | 2.1         |             |
|                                               | 0.0530    | 191  | 0.841 |             | 1.3         |
|                                               | 0.0538    | 194  | 0.852 | 2.2         |             |
|                                               | 0.0559    | 201  | 0.887 | 2.3         |             |
|                                               | 0.0562    | 202  | 0.890 |             | 1.4         |
|                                               | 0.0581    | 209  | 0.921 | 2.4         |             |
|                                               | 0.0593    | 214  | 0.940 |             | 1.5         |
|                                               | 0.0603    | 217  | 0.955 | 2.5         |             |
|                                               | 0.0624    | 225  | 0.990 | 2.6         | 1.6         |
|                                               | 0.0646    | 233  | 1.02  | 2.7         |             |
|                                               | 0.0656    | 236  | 1.04  |             | 1.7         |
|                                               | 0.0668    | 240  | 1.06  | 2.8         |             |
|                                               | 0.0687    | 247  | 1.09  |             | 1.8         |
|                                               | 0.0689    | 248  | 1.09  | 2.9         |             |
|                                               | 0.0711    | 256  | 1.13  | 3.0         |             |
|                                               | 0.0719    | 259  | 1.14  |             | 1.9         |
|                                               | 0.0733    | 264  | 1.16  | 3.1         |             |
|                                               | 0.0750    | 270  | 1.19  |             | 2.0         |
|                                               | 0.0754    | 272  | 1.20  | 3.2         |             |
|                                               | 0.0776    | 279  | 1.23  | 3.3         |             |
|                                               | 0.0781    | 281  | 1.24  |             | 2.1         |
|                                               | 0.0798    | 287  | 1.26  | 3.4         |             |
|                                               | 0.0813    | 293  | 1.29  |             | 2.2         |
|                                               | 0.0819    | 295  | 1.30  | 3.5         |             |
|                                               | 0.0841    | 303  | 1.33  | 3.6         |             |
|                                               | 0.0844    | 304  | 1.34  |             | 2.3         |
|                                               | 0.0863    | 311  | 1.37  | 3.7         |             |
|                                               | 0.0876    | 315  | 1.39  |             | 2.4         |
|                                               | 0.0884    | 318  | 1.40  | 3.8         |             |

Continue next column...



| 20mm · 3/4" · E-JUST · Y-type · White pawl    |           |      |      |             |             |
|-----------------------------------------------|-----------|------|------|-------------|-------------|
| Pressure range, ΔP: 17-210 kPaD · 2.5-30 psid |           |      |      |             |             |
|                                               | Model no. |      |      | E-JUST1.Y.B | E-JUST1.Y.G |
|                                               | l/sec     | l/hr | GPM  | Black       | Green       |
|                                               |           |      |      | Setting     | Setting     |
| Nominal flow rate                             | 0.0906    | 326  | 1.44 | 3.9         |             |
|                                               | 0.0907    | 327  | 1.44 |             | 2.5         |
|                                               | 0.0928    | 334  | 1.47 | 4.0         |             |
|                                               | 0.0938    | 338  | 1.49 |             | 2.6         |
|                                               | 0.0949    | 342  | 1.50 | 4.1         |             |
|                                               | 0.0970    | 349  | 1.54 |             | 2.7         |
|                                               | 0.0971    | 350  | 1.54 | 4.2         |             |
|                                               | 0.0993    | 357  | 1.57 | 4.3         |             |
|                                               | 0.100     | 360  | 1.59 |             | 2.8         |
|                                               | 0.101     | 365  | 1.61 | 4.4         |             |
|                                               | 0.103     | 372  | 1.64 |             | 2.9         |
|                                               | 0.104     | 373  | 1.64 | 4.5         |             |
|                                               | 0.106     | 381  | 1.68 | 4.6         |             |
|                                               | 0.106     | 383  | 1.69 |             | 3.0         |
|                                               | 0.108     | 389  | 1.71 | 4.7         |             |
|                                               | 0.110     | 394  | 1.74 |             | 3.1         |
|                                               | 0.110     | 396  | 1.75 | 4.8         |             |
|                                               | 0.112     | 404  | 1.78 | 4.9         |             |
|                                               | 0.113     | 406  | 1.79 |             | 3.2         |
|                                               | 0.114     | 412  | 1.81 | 5.0         |             |
|                                               | 0.116     | 417  | 1.84 |             | 3.3         |
|                                               | 0.119     | 428  | 1.89 |             | 3.4         |
|                                               | 0.122     | 440  | 1.94 |             | 3.5         |
|                                               | 0.125     | 451  | 1.98 |             | 3.6         |
|                                               | 0.128     | 462  | 2.03 |             | 3.7         |
|                                               | 0.132     | 473  | 2.08 |             | 3.8         |
|                                               | 0.135     | 485  | 2.13 |             | 3.9         |
|                                               | 0.138     | 496  | 2.18 |             | 4.0         |
|                                               | 0.141     | 507  | 2.23 |             | 4.1         |
|                                               | 0.144     | 519  | 2.28 |             | 4.2         |
|                                               | 0.147     | 530  | 2.33 |             | 4.3         |
|                                               | 0.150     | 541  | 2.38 |             | 4.4         |
|                                               | 0.153     | 553  | 2.43 |             | 4.5         |
|                                               | 0.157     | 564  | 2.48 |             | 4.6         |
|                                               | 0.160     | 575  | 2.53 |             | 4.7         |
|                                               | 0.163     | 586  | 2.58 |             | 4.8         |
|                                               | 0.166     | 598  | 2.63 |             | 4.9         |
|                                               | 0.169     | 609  | 2.68 |             | 5.0         |

Accuracy: Greatest of  
either ±5% of controlled flow rate  
or ±2% of maximum flow rate



Use the FlowCon adjustment key (part number ACC0001) for adjusting the flow rate.

A setting of 4.2 corresponds to a flow rate of 0.144 l/sec for the 20mm green cartridge, range 17-210 kPaD.

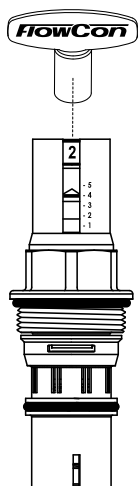
## FLOW RATE SETTING - E-JUST CARTRIDGE - FOR VALVES DN15-DN25 SMALL (continued)

| 20mm · 3/4" · E-JUST · Y-type · White pawl    |        |           |             |         |
|-----------------------------------------------|--------|-----------|-------------|---------|
| Pressure range. ΔP: 17-200 kPaD · 2.5-29 psid |        |           |             |         |
|                                               |        | Model no. | E-JUST1.Y.R |         |
| Nominal flow rate                             |        |           |             | Red     |
|                                               | l/sec  | l/hr      | GPM         | Setting |
|                                               | 0.0767 | 276       | 1.22        | 1.0     |
|                                               | 0.0813 | 293       | 1.29        | 1.1     |
|                                               | 0.0860 | 310       | 1.36        | 1.2     |
|                                               | 0.0907 | 326       | 1.44        | 1.3     |
|                                               | 0.0953 | 343       | 1.51        | 1.4     |
|                                               | 0.100  | 360       | 1.58        | 1.5     |
|                                               | 0.105  | 377       | 1.66        | 1.6     |
|                                               | 0.109  | 393       | 1.73        | 1.7     |
|                                               | 0.114  | 410       | 1.80        | 1.8     |
|                                               | 0.118  | 426       | 1.88        | 1.9     |
|                                               | 0.123  | 443       | 1.95        | 2.0     |
|                                               | 0.128  | 459       | 2.02        | 2.1     |
|                                               | 0.132  | 475       | 2.09        | 2.2     |
|                                               | 0.136  | 491       | 2.16        | 2.3     |
|                                               | 0.141  | 507       | 2.23        | 2.4     |
|                                               | 0.145  | 523       | 2.30        | 2.5     |
|                                               | 0.150  | 539       | 2.37        | 2.6     |
|                                               | 0.154  | 554       | 2.44        | 2.7     |
|                                               | 0.158  | 569       | 2.51        | 2.8     |
|                                               | 0.162  | 584       | 2.57        | 2.9     |
|                                               | 0.166  | 599       | 2.64        | 3.0     |
|                                               | 0.170  | 614       | 2.70        | 3.1     |
|                                               | 0.174  | 628       | 2.76        | 3.2     |
|                                               | 0.178  | 642       | 2.83        | 3.3     |
|                                               | 0.182  | 655       | 2.89        | 3.4     |
|                                               | 0.186  | 669       | 2.94        | 3.5     |
|                                               | 0.189  | 682       | 3.00        | 3.6     |
|                                               | 0.193  | 695       | 3.06        | 3.7     |
|                                               | 0.196  | 707       | 3.11        | 3.8     |
|                                               | 0.200  | 719       | 3.17        | 3.9     |
|                                               | 0.203  | 731       | 3.22        | 4.0     |
|                                               | 0.206  | 742       | 3.27        | 4.1     |
|                                               | 0.209  | 753       | 3.32        | 4.2     |
|                                               | 0.212  | 764       | 3.36        | 4.3     |
|                                               | 0.215  | 774       | 3.41        | 4.4     |
|                                               | 0.218  | 784       | 3.45        | 4.5     |
|                                               | 0.220  | 793       | 3.49        | 4.6     |
|                                               | 0.223  | 802       | 3.53        | 4.7     |
|                                               | 0.225  | 810       | 3.57        | 4.8     |
|                                               | 0.227  | 818       | 3.60        | 4.9     |
|                                               | 0.229  | 825       | 3.60        | 5.0     |

Accuracy: Greatest of  
either ±5% of controlled flow rate  
or ±2% of maximum flow rate

| 20mm · 3/4" · E-JUST · G-type · Grey pawl     |       |           |             |         |
|-----------------------------------------------|-------|-----------|-------------|---------|
| Pressure range. ΔP: 30-400 kPaD · 4.4-58 psid |       |           |             |         |
|                                               |       | Model no. | E-JUST1.G.R |         |
| Nominal flow rate                             |       |           |             | Red     |
|                                               | l/sec | l/hr      | GPM         | Setting |
|                                               | 0.113 | 406       | 1.79        | 1.0     |
|                                               | 0.119 | 427       | 1.88        | 1.1     |
|                                               | 0.125 | 449       | 1.98        | 1.2     |
|                                               | 0.131 | 470       | 2.07        | 1.3     |
|                                               | 0.137 | 492       | 2.17        | 1.4     |
|                                               | 0.143 | 513       | 2.26        | 1.5     |
|                                               | 0.149 | 535       | 2.36        | 1.6     |
|                                               | 0.155 | 556       | 2.45        | 1.7     |
|                                               | 0.161 | 578       | 2.54        | 1.8     |
|                                               | 0.167 | 599       | 2.64        | 1.9     |
|                                               | 0.172 | 621       | 2.73        | 2.0     |
|                                               | 0.178 | 642       | 2.83        | 2.1     |
|                                               | 0.184 | 664       | 2.92        | 2.2     |
|                                               | 0.190 | 685       | 3.02        | 2.3     |
|                                               | 0.196 | 707       | 3.11        | 2.4     |
|                                               | 0.202 | 728       | 3.21        | 2.5     |
|                                               | 0.208 | 750       | 3.30        | 2.6     |
|                                               | 0.214 | 771       | 3.40        | 2.7     |
|                                               | 0.220 | 793       | 3.49        | 2.8     |
|                                               | 0.226 | 814       | 3.59        | 2.9     |
|                                               | 0.232 | 836       | 3.68        | 3.0     |
|                                               | 0.238 | 857       | 3.78        | 3.1     |
|                                               | 0.244 | 879       | 3.87        | 3.2     |
|                                               | 0.250 | 900       | 3.96        | 3.3     |
|                                               | 0.256 | 922       | 4.06        | 3.4     |
|                                               | 0.262 | 943       | 4.15        | 3.5     |
|                                               | 0.268 | 965       | 4.25        | 3.6     |
|                                               | 0.274 | 987       | 4.34        | 3.7     |
|                                               | 0.280 | 1010      | 4.44        | 3.8     |
|                                               | 0.286 | 1030      | 4.53        | 3.9     |
|                                               | 0.292 | 1050      | 4.63        | 4.0     |
|                                               | 0.298 | 1070      | 4.72        | 4.1     |
|                                               | 0.304 | 1090      | 4.82        | 4.2     |
|                                               | 0.310 | 1120      | 4.91        | 4.3     |
|                                               | 0.316 | 1140      | 5.01        | 4.4     |
|                                               | 0.322 | 1160      | 5.10        | 4.5     |
|                                               | 0.328 | 1180      | 5.20        | 4.6     |
|                                               | 0.334 | 1200      | 5.29        | 4.7     |
|                                               | 0.340 | 1220      | 5.38        | 4.8     |
|                                               | 0.346 | 1240      | 5.48        | 4.9     |
|                                               | 0.352 | 1270      | 5.57        | 5.0     |

Accuracy: Greatest of  
either ±5% of controlled flow rate  
or ±2% of maximum flow rate



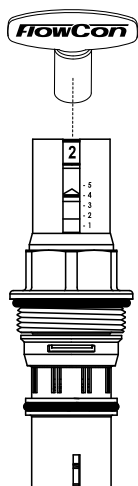
Use the FlowCon adjustment  
key (part number ACC0001)  
for adjusting the flow rate.

A setting of 4.2 corresponds  
to a flow rate of 0.304 l/sec  
for the 20mm red cartridge,  
range 30-400 kPaD.

## FLOW RATE SETTING - E-JUST CARTRIDGE - FOR VALVES DN15-DN25 SMALL (continued)

| 20mm · 3/4" · E-JUST · G-type · Grey pawl     |           |      |       |             |             |
|-----------------------------------------------|-----------|------|-------|-------------|-------------|
| Pressure range, ΔP: 35-400 kPaD · 5.1-58 psid |           |      |       |             |             |
|                                               | Model no. |      |       | E-JUST1.G.B | E-JUST1.G.G |
|                                               | l/sec     | l/hr | GPM   | Black       | Green       |
|                                               |           |      |       | Setting     | Setting     |
| Nominal flow rate                             | 0.0383    | 138  | 0.607 | 1.0         |             |
|                                               | 0.0416    | 150  | 0.660 | 1.1         |             |
|                                               | 0.0449    | 162  | 0.712 | 1.2         |             |
|                                               | 0.0483    | 174  | 0.765 | 1.3         |             |
|                                               | 0.0516    | 186  | 0.817 | 1.4         |             |
|                                               | 0.0549    | 198  | 0.870 | 1.5         |             |
|                                               | 0.0582    | 210  | 0.922 | 1.6         |             |
|                                               | 0.0615    | 221  | 0.975 | 1.7         |             |
|                                               | 0.0648    | 233  | 1.03  | 1.8         |             |
|                                               | 0.0660    | 238  | 1.05  |             | 1.0         |
|                                               | 0.0681    | 245  | 1.08  | 1.9         |             |
|                                               | 0.0706    | 254  | 1.12  |             | 1.1         |
|                                               | 0.0714    | 257  | 1.13  | 2.0         |             |
|                                               | 0.0748    | 269  | 1.18  | 2.1         |             |
|                                               | 0.0751    | 271  | 1.19  |             | 1.2         |
|                                               | 0.0781    | 281  | 1.24  | 2.2         |             |
|                                               | 0.0797    | 287  | 1.26  |             | 1.3         |
|                                               | 0.0814    | 293  | 1.29  | 2.3         |             |
|                                               | 0.0843    | 304  | 1.34  |             | 1.4         |
|                                               | 0.0847    | 305  | 1.34  | 2.4         |             |
|                                               | 0.0880    | 317  | 1.40  | 2.5         |             |
|                                               | 0.0889    | 320  | 1.41  |             | 1.5         |
|                                               | 0.0913    | 329  | 1.45  | 2.6         |             |
|                                               | 0.0934    | 336  | 1.48  |             | 1.6         |
|                                               | 0.0946    | 341  | 1.50  | 2.7         |             |
|                                               | 0.0979    | 353  | 1.55  | 2.8         |             |
|                                               | 0.0980    | 353  | 1.55  |             | 1.7         |
|                                               | 0.101     | 365  | 1.61  | 2.9         |             |
|                                               | 0.103     | 369  | 1.63  |             | 1.8         |
|                                               | 0.105     | 377  | 1.66  | 3.0         |             |
|                                               | 0.107     | 386  | 1.70  |             | 1.9         |
|                                               | 0.108     | 388  | 1.71  | 3.1         |             |
|                                               | 0.111     | 400  | 1.76  | 3.2         |             |
|                                               | 0.112     | 402  | 1.77  |             | 2.0         |
|                                               | 0.115     | 412  | 1.82  | 3.3         |             |
|                                               | 0.116     | 419  | 1.84  |             | 2.1         |
|                                               | 0.118     | 424  | 1.87  | 3.4         |             |
|                                               | 0.121     | 435  | 1.92  |             | 2.2         |
|                                               | 0.121     | 436  | 1.92  | 3.5         |             |
|                                               | 0.124     | 448  | 1.97  | 3.6         |             |
|                                               | 0.125     | 452  | 1.99  |             | 2.3         |
|                                               | 0.128     | 460  | 2.03  | 3.7         |             |
|                                               | 0.130     | 468  | 2.06  |             | 2.4         |
|                                               | 0.131     | 472  | 2.08  | 3.8         |             |

Continue next column...



Use the FlowCon adjustment key (part number ACC0001) for adjusting the flow rate.

A setting of 4.2 corresponds to a flow rate of 0.212 l/sec for the 20mm green cartridge, range 35-400 kPaD.



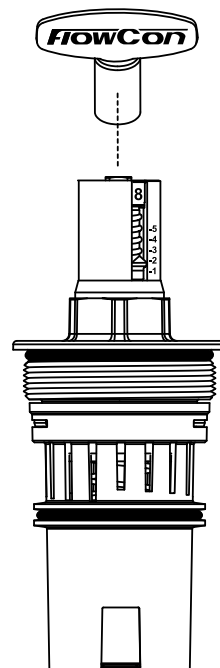
| 20mm · 3/4" · E-JUST · G-type · Grey pawl     |           |      |      |             |             |
|-----------------------------------------------|-----------|------|------|-------------|-------------|
| Pressure range, ΔP: 35-400 kPaD · 5.1-58 psid |           |      |      |             |             |
|                                               | Model no. |      |      | E-JUST1.G.B | E-JUST1.G.G |
|                                               | l/sec     | l/hr | GPM  | Black       | Green       |
|                                               |           |      |      | Setting     | Setting     |
| Nominal flow rate                             | 0.134     | 484  | 2.13 | 3.9         |             |
|                                               | 0.135     | 485  | 2.13 |             | 2.5         |
|                                               | 0.138     | 496  | 2.18 | 4.0         |             |
|                                               | 0.139     | 501  | 2.21 |             | 2.6         |
|                                               | 0.141     | 508  | 2.24 | 4.1         |             |
|                                               | 0.144     | 517  | 2.28 |             | 2.7         |
|                                               | 0.144     | 520  | 2.29 | 4.2         |             |
|                                               | 0.148     | 532  | 2.34 | 4.3         |             |
|                                               | 0.148     | 534  | 2.35 |             | 2.8         |
|                                               | 0.151     | 544  | 2.39 | 4.4         |             |
|                                               | 0.153     | 550  | 2.42 |             | 2.9         |
|                                               | 0.154     | 556  | 2.45 | 4.5         |             |
|                                               | 0.157     | 567  | 2.50 |             | 3.0         |
|                                               | 0.158     | 567  | 2.50 | 4.6         |             |
|                                               | 0.161     | 579  | 2.55 | 4.7         |             |
|                                               | 0.162     | 583  | 2.57 |             | 3.1         |
|                                               | 0.164     | 591  | 2.60 | 4.8         |             |
|                                               | 0.167     | 600  | 2.64 |             | 3.2         |
|                                               | 0.168     | 603  | 2.66 | 4.9         |             |
|                                               | 0.171     | 615  | 2.71 | 5.0         |             |
|                                               | 0.171     | 616  | 2.71 |             | 3.3         |
|                                               | 0.176     | 633  | 2.79 |             | 3.4         |
|                                               | 0.180     | 649  | 2.86 |             | 3.5         |
|                                               | 0.185     | 666  | 2.93 |             | 3.6         |
|                                               | 0.189     | 682  | 3.00 |             | 3.7         |
|                                               | 0.194     | 699  | 3.08 |             | 3.8         |
|                                               | 0.199     | 715  | 3.15 |             | 3.9         |
|                                               | 0.203     | 731  | 3.22 |             | 4.0         |
|                                               | 0.208     | 748  | 3.29 |             | 4.1         |
|                                               | 0.212     | 764  | 3.37 |             | 4.2         |
|                                               | 0.217     | 781  | 3.44 |             | 4.3         |
|                                               | 0.221     | 797  | 3.51 |             | 4.4         |
|                                               | 0.226     | 814  | 3.58 |             | 4.5         |
|                                               | 0.231     | 830  | 3.66 |             | 4.6         |
|                                               | 0.235     | 847  | 3.73 |             | 4.7         |
|                                               | 0.240     | 863  | 3.80 |             | 4.8         |
|                                               | 0.244     | 880  | 3.87 |             | 4.9         |
|                                               | 0.249     | 896  | 3.95 |             | 5.0         |

Accuracy: Greatest of either ±5% of controlled flow rate or ±2% of maximum flow rate

## FLOW RATE SETTING - E-JUST CARTRIDGE - FOR VALVES DN25 LARGE AND DN32

| 40mm · 1 1/2" · E-JUST · Y-type · White pawl  |       |           |             |         |
|-----------------------------------------------|-------|-----------|-------------|---------|
| Pressure range. ΔP: 17-400 kPaD · 2.5-58 psid |       |           |             |         |
|                                               |       | Model no. | E-JUST2.Y.B |         |
| Nominal flow rate                             | l/sec | l/hr      | GPM         | Setting |
|                                               | 0.291 | 1050      | 4.61        | 1.0     |
|                                               | 0.334 | 1200      | 5.30        | 1.1     |
|                                               | 0.377 | 1360      | 5.97        | 1.2     |
|                                               | 0.418 | 1510      | 6.63        | 1.3     |
|                                               | 0.459 | 1650      | 7.28        | 1.4     |
|                                               | 0.499 | 1800      | 7.91        | 1.5     |
|                                               | 0.538 | 1940      | 8.53        | 1.6     |
|                                               | 0.577 | 2080      | 9.14        | 1.7     |
|                                               | 0.614 | 2210      | 9.73        | 1.8     |
|                                               | 0.651 | 2340      | 10.3        | 1.9     |
|                                               | 0.687 | 2470      | 10.9        | 2.0     |
|                                               | 0.722 | 2600      | 11.4        | 2.1     |
|                                               | 0.756 | 2720      | 12.0        | 2.2     |
|                                               | 0.790 | 2840      | 12.5        | 2.3     |
|                                               | 0.823 | 2960      | 13.0        | 2.4     |
|                                               | 0.855 | 3080      | 13.5        | 2.5     |
|                                               | 0.886 | 3190      | 14.0        | 2.6     |
|                                               | 0.916 | 3300      | 14.5        | 2.7     |
|                                               | 0.946 | 3400      | 15.0        | 2.8     |
|                                               | 0.974 | 3510      | 15.4        | 2.9     |
|                                               | 1.00  | 3610      | 15.9        | 3.0     |
|                                               | 1.03  | 3710      | 16.3        | 3.1     |
|                                               | 1.06  | 3800      | 16.7        | 3.2     |
|                                               | 1.08  | 3890      | 17.1        | 3.3     |
|                                               | 1.11  | 3980      | 17.5        | 3.4     |
|                                               | 1.13  | 4070      | 17.9        | 3.5     |
|                                               | 1.15  | 4150      | 18.3        | 3.6     |
|                                               | 1.18  | 4230      | 18.6        | 3.7     |
|                                               | 1.20  | 4310      | 19.0        | 3.8     |
|                                               | 1.22  | 4380      | 19.3        | 3.9     |
|                                               | 1.24  | 4460      | 19.6        | 4.0     |
|                                               | 1.26  | 4530      | 19.9        | 4.1     |
|                                               | 1.28  | 4590      | 20.2        | 4.2     |
|                                               | 1.29  | 4650      | 20.5        | 4.3     |
|                                               | 1.31  | 4710      | 20.8        | 4.4     |
|                                               | 1.33  | 4770      | 21.0        | 4.5     |
|                                               | 1.34  | 4830      | 21.3        | 4.6     |
|                                               | 1.36  | 4880      | 21.5        | 4.7     |
|                                               | 1.37  | 4930      | 21.7        | 4.8     |
|                                               | 1.38  | 4970      | 21.9        | 4.9     |
|                                               | 1.39  | 5020      | 22.1        | 5.0     |

Accuracy: Greatest of  
either ±5% of controlled flow rate  
or ±2% of maximum flow rate



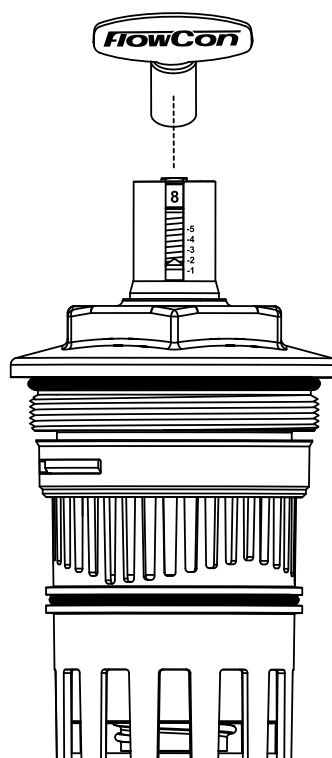
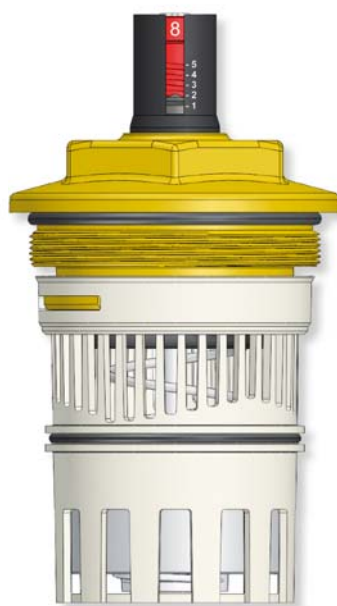
Use the FlowCon adjustment key (part number ACC0001) for adjusting the flow rate.

A setting of 4.2 corresponds to a flow rate of 1.28 l/sec for the 40mm cartridge, range 17-400 kPaD.

## FLOW RATE SETTING - E-JUST CARTRIDGE - FOR VALVES DN40 AND DN50

| 50mm · 2" · E-JUST · G-type · Grey pawl                |       |       |      |             |
|--------------------------------------------------------|-------|-------|------|-------------|
| Pressure range. $\Delta P$ : 20-400 kPaD · 2.9-58 psid |       |       |      |             |
| Model no.                                              |       |       |      | E-JUST3.G.B |
| Nominal flow rate                                      | l/sec | l/hr  | GPM  | Setting     |
|                                                        | 0.883 | 3180  | 14.0 | 1.0         |
|                                                        | 1.14  | 4100  | 18.0 | 1.1         |
|                                                        | 1.37  | 4940  | 21.7 | 1.2         |
|                                                        | 1.59  | 5710  | 25.1 | 1.3         |
|                                                        | 1.78  | 6420  | 28.3 | 1.4         |
|                                                        | 1.96  | 7070  | 31.1 | 1.5         |
|                                                        | 2.13  | 7660  | 33.7 | 1.6         |
|                                                        | 2.28  | 8200  | 36.1 | 1.7         |
|                                                        | 2.42  | 8700  | 38.3 | 1.8         |
|                                                        | 2.54  | 9150  | 40.3 | 1.9         |
|                                                        | 2.66  | 9570  | 42.1 | 2.0         |
|                                                        | 2.77  | 9960  | 43.8 | 2.1         |
|                                                        | 2.86  | 10300 | 45.4 | 2.2         |
|                                                        | 2.95  | 10600 | 46.8 | 2.3         |
|                                                        | 3.04  | 10900 | 48.2 | 2.4         |
|                                                        | 3.12  | 11200 | 49.4 | 2.5         |
|                                                        | 3.19  | 11500 | 50.6 | 2.6         |
|                                                        | 3.26  | 11700 | 51.7 | 2.7         |
|                                                        | 3.32  | 12000 | 52.7 | 2.8         |
|                                                        | 3.39  | 12200 | 53.7 | 2.9         |
|                                                        | 3.45  | 12400 | 54.6 | 3.0         |
|                                                        | 3.51  | 12600 | 55.6 | 3.1         |
|                                                        | 3.56  | 12800 | 56.5 | 3.2         |
|                                                        | 3.62  | 13000 | 57.3 | 3.3         |
|                                                        | 3.67  | 13200 | 58.2 | 3.4         |
|                                                        | 3.73  | 13400 | 59.1 | 3.5         |
|                                                        | 3.78  | 13600 | 59.9 | 3.6         |
|                                                        | 3.83  | 13800 | 60.8 | 3.7         |
|                                                        | 3.89  | 14000 | 61.6 | 3.8         |
|                                                        | 3.94  | 14200 | 62.4 | 3.9         |
|                                                        | 3.99  | 14400 | 63.3 | 4.0         |
|                                                        | 4.05  | 14600 | 64.1 | 4.1         |
|                                                        | 4.10  | 14800 | 65.0 | 4.2         |
|                                                        | 4.15  | 14900 | 65.8 | 4.3         |
|                                                        | 4.20  | 15100 | 66.6 | 4.4         |
|                                                        | 4.25  | 15300 | 67.4 | 4.5         |
|                                                        | 4.30  | 15500 | 68.2 | 4.6         |
|                                                        | 4.35  | 15700 | 68.9 | 4.7         |
|                                                        | 4.39  | 15800 | 69.6 | 4.8         |
|                                                        | 4.44  | 16000 | 70.3 | 4.9         |
|                                                        | 4.48  | 16100 | 70.9 | 5.0         |

Accuracy: Greatest of  
either  $\pm 5\%$  of controlled flow rate  
or  $\pm 2\%$  of maximum flow rate



Use the FlowCon adjustment key (part number ACC0001) for adjusting the flow rate.

A setting of 4.2 corresponds to a flow rate of 4.10 l/sec for the 50mm cartridge, range 20-400 kPaD.

## ACCESSORIES

- P/t plugs: 2 x ACC00101
- Blind cap: ACC0080 / ACC0081 / ACC0084 (cap (small / medium / large) without a cartridge for flushing out the system)
- Adjustment key: ACC0001 (key for adjusting the flow rate on E-JUST cartridges).

## GENERAL SPECIFICATIONS

### 1. AUTOMATIC BALANCING VALVES - FLOWCON AB

- 1.1. Contractor shall install automatic balancing valves where indicated in drawings.
- 1.2. Valve shall consist of dynamic, accessible, adjustable flow limiting device.

### 2. VALVE HOUSING

- 2.1. Valve housing shall consist of forged brass ASTM CuZn40Pb2, rated at no less than 2500 kPa static pressure and +120°C.
- 2.2. Valve housing shall be permanently marked to show direction of flow.
- 2.3. Optional dual pressure/temperature test plugs for verifying accuracy of flow performance shall be available for all valve sizes.
- 2.4. Housing shall be configured for flow regulation unit accessibility.

### 3.a. FLOW REGULATOR / AUTOMATIC BALANCING UNIT / COMPOSITE CARTRIDGE

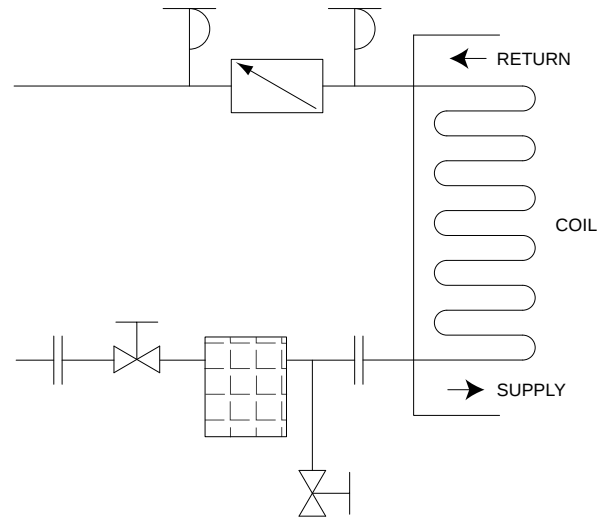
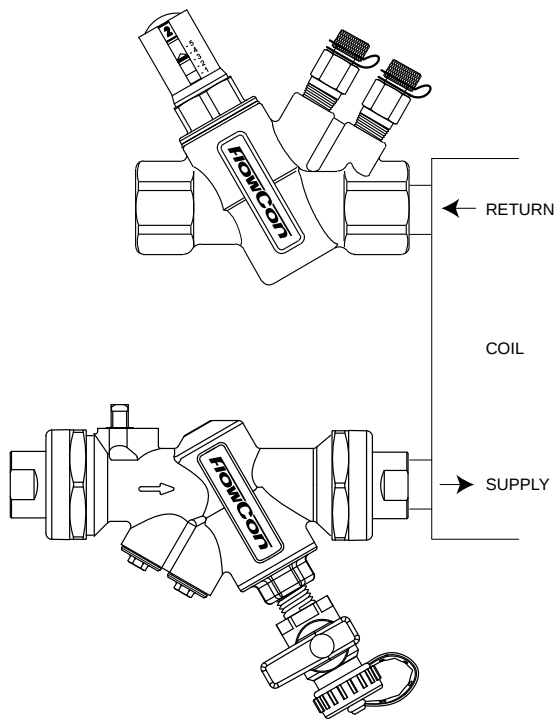
- 3.a.1. Flow regulation unit assembly shall be manufactured of polyoxymethylene with a hydrogenated acrylonitrile-butadiene rubber or EPDM diaphragm and stainless steel 18-8 spring.
- 3.a.2. Flow regulation unit shall be readily accessible for change-out or maintenance.
- 3.a.3. Flow regulation unit shall be adjustable to 1 of 8 different flow rates; shall be available in 2 different kPaD operational ranges for DN15/20/25 and 3 different kPaD operational ranges for DN25/32/40; minimum range shall be capable of being activated by minimum 15 kPaD. Further, the flow regulation unit shall be capable of controlling flow within  $\pm 10\%$  of rated flow rate or 20l/hr.
- 3.a.4. Identification tags shall be available for all valves; tags shall be indelibly marked with flow rate, color and dial setting.

OR...

### 3.b. FLOW REGULATOR / AUTOMATIC BALANCING UNIT / E-JUST CARTRIDGE

- 3.b.1. Flow regulation unit assembly shall be manufactured of polysulfone with a hydrogenated acrylonitrile-butadiene rubber or EPDM diaphragm and stainless steel 18-8 spring.
- 3.b.2. Flow regulation unit shall be readily accessible for change-out or maintenance.
- 3.b.3. Flow regulation unit shall be adjustable with the valve in-line and the system in operation.
- 3.b.4. Flow regulation unit shall be externally adjustable to 1 of 41 different flow rates; shall be available in 4 different kPaD operational ranges for DN15/20/25, 1 kPaD operational range for DN25/32/40 and 1 kPaD operational range for DN40/50; minimum range shall be capable of being activated by minimum 17 kPaD. Further, the flow regulation unit shall be capable of controlling flow within  $\pm 5\%$  of rated flow or  $\pm 2\%$  of maximum flow.
- 3.b.5. Identification tags shall be available for all valves; tags shall be indelibly marked with flow rate, colour and dial setting.

## APPLICATION AND SCHEMATIC EXAMPLE



## UPDATES

**For latest updates please see [www.flowcon.com](http://www.flowcon.com)**

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