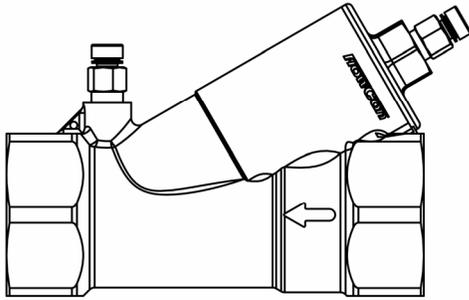


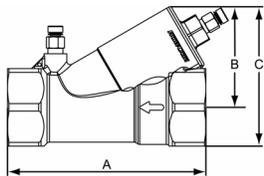
ACCESSIBLE PRE-SET CARTRIDGE

SPECIFICATIONS

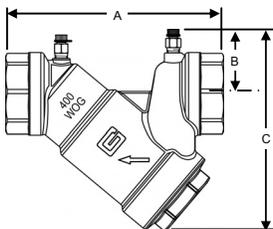


Pressure/Temp. Rating: 1600 kPa / -30°C to +120°C
Material:
 - **Body:** Forged brass ASTM CuZn39Pb2 or DZR brass "Enkotal[®]" (40-50small mm) Cast brass (50large-80mm)
 - **Cartridge:** AISI Type 304 stainless steel
 AISI Type 17-7 PH stainless steel spring
 - **O-rings:** EPDM
End Connections: Female ISO/BSP (Optional NPT)
Body Tappings: 1/4" ISO/BSP (Optional NPT)
Flow Rate Range: 0.757 l/s – 10.09 l/s

DIMENSIONS & WEIGHTS (NOMINAL) (measured in mm unless noted)



| MODEL NO. | SIZE | A | B | C | WEIGHT (KGS.) | Kv (m ³ /h) |
|-----------|------|-----|----|-----|---------------|------------------------|
| F382xKxx | 40 | 166 | 85 | 114 | 1.8 | 35 |
| F382xLxx | 50 | 174 | 88 | 123 | 2.1 | 52 |



| | | | | | | |
|----------|----|-----|----|-----|-----|----|
| F383xLxx | 50 | 226 | 69 | 216 | 4.3 | 65 |
| F383xMxx | 65 | 249 | 69 | 216 | 4.3 | |
| F383xNxx | 80 | 259 | 69 | 216 | 4.3 | |

MODEL NUMBER SELECTION¹

Insert body size: _____ **F**

382 = 40/50mm (1 1/2"-2") for 2" cartridge
383 = 50/65/80mm (2"-2 1/2"-3") for 3" cartridge

Insert a kPaD control range: _____

0 = None, **1** = 10-95, **2** = 22-210, **4** = 40-390, **8** = 90-880

Insert type of end connection: _____

K = 40mm, (1 1/2"), **L** = 50mm (2")
M = 65mm (2 1/2"), **N** = 80mm (3")

Insert p/t plug requirements: _____

B = Pressure/temperature plugs
P = taps plugged, **O** = taps open

Insert type of thread: _____

N = NPT, **I** = ISO, **J** = JIS

Insert valve body material: _____

Leave it **blank** for standard body material or **D** = DZR (40-50mm small)

Insert valve cartridge as per selection chart: _____

Leave it **blank** if no cartridge require.

Example: F382.2.K.B.I.F3C2248 = a FlowCon K, standard body material with p/t plugs and ISO 40mm female connections with a F3C2248 cartridge (1.514 l/s, 22-210 kPaD)

NOTES

¹ Model no. and flow rate are indicated on label affixed to body.

FLOW RATE TABLES (+/- 5%)

| 40 - 50mm, 1 1/2" - 2" (2" cartridge) | | | | | |
|---------------------------------------|--------|---------------|----------------|----------------|----------------|
| l/s | GPM | Range 1 | Range 2 | Range 4 | Range 8 |
| | | 10-95 kPaD | 22-210 kPaD | 40-390 kPaD | 90-880 kPaD |
| 0.757 | 12.00 | F3C2136 | | | |
| 0.883 | 14.00 | F3C2142 | | | |
| 1.009 | 16.00 | F3C2148 | | | |
| 1.136 | 18.00 | F3C2154 | F3C2236 | | |
| 1.262 | 20.00 | F3C2160 | | | |
| 1.325 | 21.00 | | F3C2242 | | |
| 1.388 | 22.00 | F3C2166 | | | |
| 1.514 | 24.00 | F3C2172 | F3C2248 | F3C2436 | |
| 1.640 | 26.00 | F3C2178 | | | |
| 1.703 | 27.00 | | F3C2254 | | |
| 1.767 | 28.00 | F3C2184 | | F3C2442 | |
| 1.893 | 30.00 | F3C2190 | F3C2260 | | |
| 2.019 | 32.00 | F3C2196 | | F3C2448 | |
| 2.082 | 33.00 | | F3C2266 | | |
| 2.145 | 34.00 | F3C21102 | | | |
| 2.271 | 36.00 | F3C21108 | F3C2272 | F3C2454 | F3C2836 |
| 2.397 | 38.00 | F3C21114 | | | |
| 2.461 | 39.00 | | F3C2278 | | |
| 2.524 | 40.00 | | | F3C2460 | |
| 2.650 | 42.00 | | F3C2284 | | F3C2842 |
| 2.776 | 44.00 | | | F3C2466 | |
| 2.839 | 45.00 | | F3C2290 | | |
| 3.028 | 48.00 | | F3C2296 | F3C2472 | F3C2848 |
| 3.218 | 51.00 | | F3C22102 | | |
| 3.281 | 52.00 | | | F3C2478 | |
| 3.407 | 54.00 | | F3C22108 | | F3C2854 |
| 3.533 | 56.00 | | | F3C2484 | |
| 3.596 | 57.00 | | F3C22114 | | |
| 3.785 | 60.00 | | | F3C2490 | F3C2860 |
| 4.038 | 64.00 | | | F3C2496 | |
| 4.164 | 66.00 | | | | F3C2866 |
| 4.290 | 68.00 | | | F3C24102 | |
| 4.543 | 72.00 | | | F3C24108 | F3C2872 |
| 4.795 | 76.00 | | | F3C24114 | |
| 4.921 | 78.00 | | | | F3C2878 |
| 5.300 | 84.00 | | | | F3C2884 |
| 5.678 | 90.00 | | | | F3C2890 |
| 6.057 | 96.00 | | | | F3C2896 |
| 6.435 | 102.00 | | | | F3C28102 |
| 6.814 | 108.00 | | | | F3C28108 |
| 7.192 | 114.00 | | | | F3C28114 |

| 50 - 80mm, 2" - 3" (3" cartridge) | | | | | | | | | | | |
|-----------------------------------|-------|----------------|----------------|----------------|----------------|-------|--------|-----------------------|-----------------------|----------------|----------------|
| l/s | GPM | Range 1 | Range 2 | Range 4 | Range 8 | l/s | GPM | Range 1 | Range 2 | Range 4 | Range 8 |
| | | 10-135 kPaD | 22-210 kPaD | 40-390 kPaD | 90-880 kPaD | | | 10-135 kPaD | 22-210 kPaD | 40-390 kPaD | 90-880 kPaD |
| 0.88 | 14.00 | F324135 | | | | 4.42 | 70.00 | | F3242140 | F3244105 | F324870 |
| 1.01 | 16.00 | F324140 | | | | 4.57 | 72.50 | | F3242145 | | |
| 1.10 | 17.50 | | F324235 | | | 4.63 | 73.33 | | | F3244110 | |
| 1.14 | 18.00 | F324145 | | | | 4.73 | 75.00 | | F3242150 | | F324875 |
| 1.26 | 20.00 | F324150 | F324240 | | | 4.84 | 76.67 | | | F3244115 | |
| 1.39 | 22.00 | F324155 | | | | 5.05 | 80.00 | | | F3244120 | F324880 |
| 1.42 | 22.50 | | F324245 | | | 5.26 | 83.33 | | | F3244125 | |
| 1.47 | 23.33 | | | F324435 | | 5.36 | 85.00 | | | | F324885 |
| 1.51 | 24.00 | F324160 | | | | 5.47 | 86.67 | | | F3244130 | |
| 1.58 | 25.00 | | F324250 | | | 5.68 | 90.00 | F3241220 ² | | F3244135 | F324890 |
| 1.64 | 26.00 | F324165 | | | | 5.89 | 93.33 | | | F3244140 | |
| 1.68 | 26.67 | | | F324440 | | 5.99 | 95.00 | | | | F324895 |
| 1.74 | 27.50 | | F324255 | | | 6.10 | 96.67 | | | F3244145 | |
| 1.77 | 28.00 | F324170 | | | | 6.31 | 100.00 | | | F3244150 | F3248100 |
| 1.89 | 30.00 | F324175 | F324260 | F324445 | | 6.62 | 105.00 | | | | F3248105 |
| 2.02 | 32.00 | F324180 | | | | 6.94 | 110.00 | F3241270 ² | F3242220 ³ | | F3248110 |
| 2.05 | 32.50 | | F324265 | | | 7.26 | 115.00 | | | | F3248115 |
| 2.10 | 33.33 | | | F324450 | | 7.57 | 120.00 | | | | F3248120 |
| 2.15 | 34.00 | F324185 | | | | 7.89 | 125.00 | | | | F3248125 |
| 2.21 | 35.00 | | F324270 | | F324835 | 8.20 | 130.00 | F3241320 ² | | | F3248130 |
| 2.27 | 36.00 | F324190 | | | | 8.52 | 135.00 | | F3242270 ³ | | F3248135 |
| 2.31 | 36.67 | | | F324455 | | 8.83 | 140.00 | | | | F3248140 |
| 2.37 | 37.50 | | F324275 | | | 9.15 | 145.00 | | | | F3248145 |
| 2.40 | 38.00 | F324195 | | | | 9.46 | 150.00 | | | | F3248150 |
| 2.52 | 40.00 | F3241100 | F324280 | F324460 | F324840 | 10.09 | 160.00 | | F3242320 ³ | | |
| 2.65 | 42.00 | F3241105 | | | | | | | | | |
| 2.68 | 42.50 | | F324285 | | | | | | | | |
| 2.73 | 43.33 | | | F324465 | | | | | | | |
| 2.78 | 44.00 | F3241110 | | | | | | | | | |
| 2.84 | 45.00 | | F324290 | | F324845 | | | | | | |
| 2.90 | 46.00 | F3241115 | | | | | | | | | |
| 2.94 | 46.67 | | | F324470 | | | | | | | |
| 3.00 | 47.50 | | F324295 | | | | | | | | |
| 3.03 | 48.00 | F3241120 | | | | | | | | | |
| 3.15 | 50.00 | F3241125 | F3242100 | F324475 | F324850 | | | | | | |
| 3.28 | 52.00 | F3241130 | | | | | | | | | |
| 3.31 | 52.50 | | F3242105 | | | | | | | | |
| 3.36 | 53.33 | | | F324480 | | | | | | | |
| 3.41 | 54.00 | F3241135 | | | | | | | | | |
| 3.47 | 55.00 | | F3242110 | | F324855 | | | | | | |
| 3.53 | 56.00 | F3241140 | | | | | | | | | |
| 3.58 | 56.67 | | | F324485 | | | | | | | |
| 3.63 | 57.50 | | F3242115 | | | | | | | | |
| 3.66 | 58.00 | F3241145 | | | | | | | | | |
| 3.79 | 60.00 | F3241150 | F3242120 | F324490 | F324860 | | | | | | |
| 3.94 | 62.50 | | F3242125 | | | | | | | | |
| 4.00 | 63.33 | | | F324495 | | | | | | | |
| 4.10 | 65.00 | | F3242130 | | F324865 | | | | | | |
| 4.21 | 66.67 | | | F3244100 | | | | | | | |
| 4.26 | 67.50 | | F3242135 | | | | | | | | |

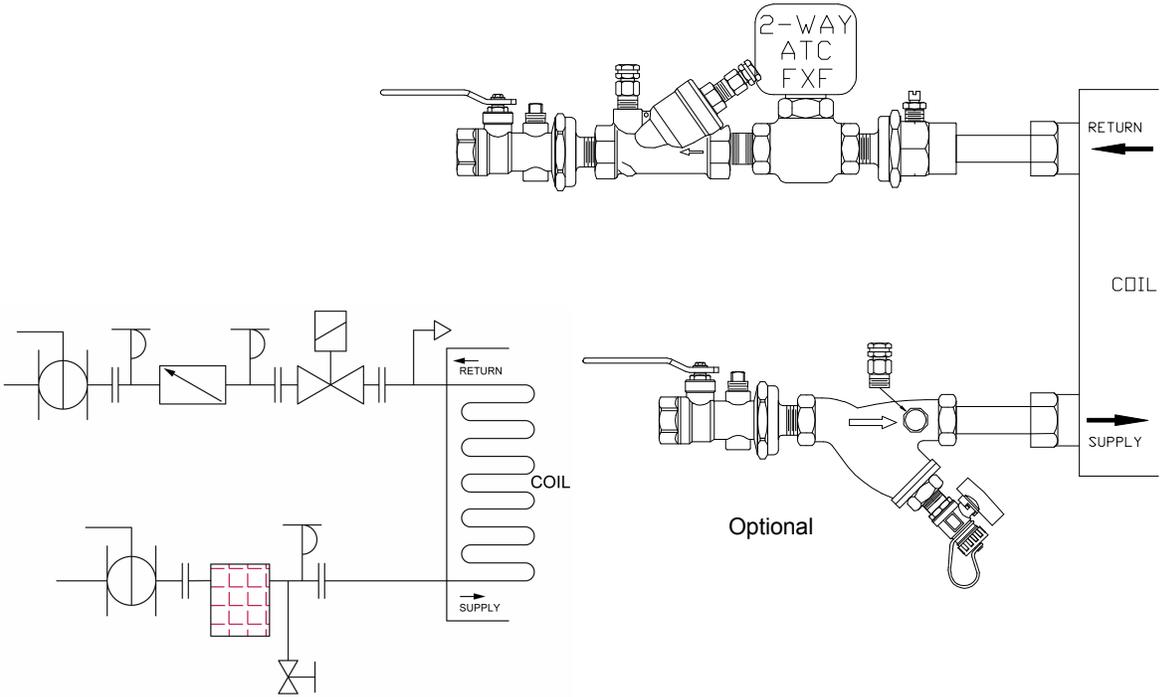
NOTES

² Standard Flow, High Capacity: the pressure range for these flow rates is 28-135 kPaD
³ Standard Flow, High Capacity: the pressure range for these flow rates is 55-210 kPaD

GENERAL SPECIFICATIONS

1. AUTOMATIC BALANCING VALVES FLOWCON K
 - 1.1. Contractor shall install Automatic Balancing Valves where indicated in drawings.
 - 1.2. Valve shall consist of a dynamic, accessible, flow limiting device.
2. VALVE HOUSING
 - 2.1. Housing shall for be constructed of forged ASTM (CuZn39Pb2) brass or DZR brass (Enkotal[®]) (FlowCon K 40-50mm) or of cast brass (FlowCon K 50-80mm) and be rated at no less than 1600 kPa static pressure and 120°C.
 - 2.2. Valve housing shall be ISO/BSP female threaded for the appropriate pipe size and shall be configured for accessibility.
 - 2.3. Pressure/temperature plugs for verifying accuracy of flow performance shall be provided for all valve sizes.
 - 2.4. Identification tags shall be available for all valves; tags shall be indelibly marked with part number and flow rate.
3. FLOW REGULATOR / AUTOMATIC BALANCING UNIT
 - 3.1. Flow regulation cartridge assembly shall be precision ground, all AISI type 300 Series stainless steel; shall be available in four kPaD control ranges; minimum range shall be capable of being activated by less than 10 kPa; and shall be capable of controlling flow within +/-5% of rated flow.
 - 3.2. Flow regulation unit shall be readily accessible, for change-out or maintenance.

2-WAY SYSTEM EXAMPLE



3-WAY SYSTEM EXAMPLE

