

FlowCon QuickDisc™

Manual Flow Control, 15-20mm



SPECIFICATIONS

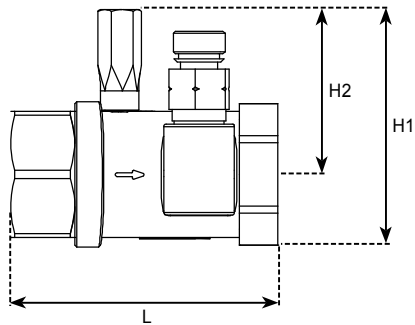
Static pressure:	2500 kPa / 400 psi
Temperature rating:	-20°C to +120°C / -4°F to +250°F
Material:	
- Flow element:	Venturi: Brass ASTM CuZn38Pb2 Disc: Ceramic
- Body:	Forged brass ASTM CuZn38Pb2
- End connections:	Fixed female ISO228
Body tappings:	1/4" ISO
Adjustment:	Pin with graduated marking on housings and memory stop
Installation:	Straight sections of piping upstream and downstream of the FlowCon QuickDisc™ are not necessary for proper operation
Maximum close off pressure:	2500 kPaD / 400 psid
Maximum operational ΔP:	2500 kPaD / 400 psid
Shut-off leakage:	Bubble tight, EN12266-2:2003 - Class A
Flow rate range:	66.6-5260 l/hr / 0.29-23.16 GPM

DIMENSIONS AND WEIGHTS (measured in mm unless noted)

Model no.	Valve size	L	H1	H2	D (depth)	Weight ¹ (kgs.)	Kv ² (m ³ /hr)
FQ.E.I.B.X	15	69.0	58.0	43.0	51.0	0.44	5.62
FQ.F.I.B.X	20					0.40	

Note 1: Weight are including p/t plugs (2 pcs) for measuring ports and without plug for connection port.

Note 2: Kv's are used to calculate the permanent pressure drop. $kPaD = (Flow/Kv)^2$. Use the Flow Test points for flow measurement.



MODEL NUMBER SELECTION

FQ . . . I . . B . .

Insert size of valve:
E=15mm (1/2") **F**=20mm (3/4") _____

Connections standard:
I=ISO (standard) _____

Standard plugs for measuring ports:
B=pressure/temperature plug (2 pcs) _____

Insert plug requirement for connection port:
O=none (standard) _____
C=Capillary tube (Ø6 x M8 thread connections) _____
P=Plug (1 pcs) _____

Example: FQ.E.I.B.0=15mm FlowCon QuickDisc™, female-female ISO with 2 p/t plugs and no plug for connection port.

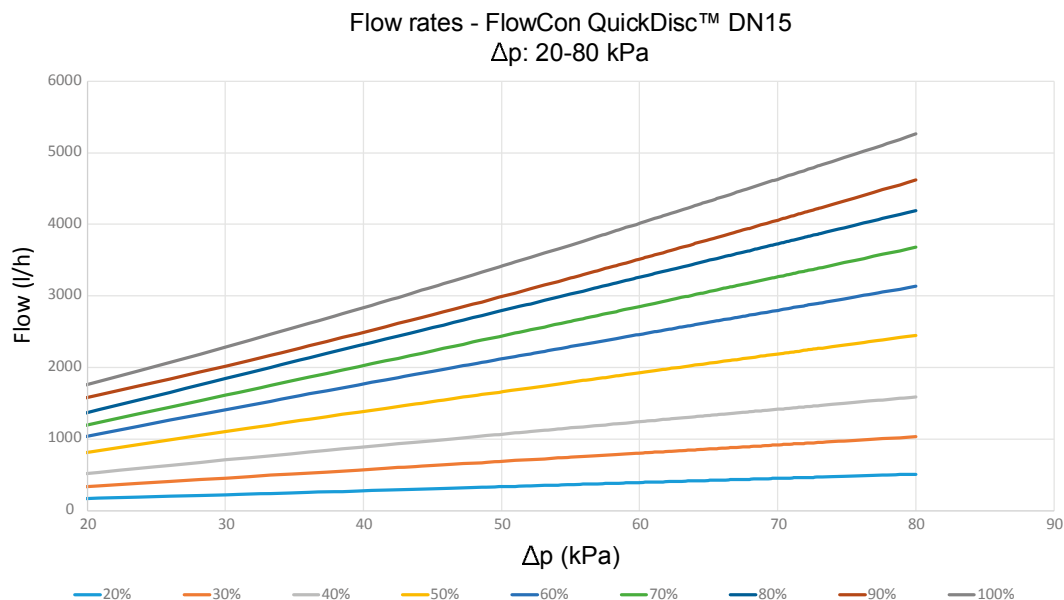
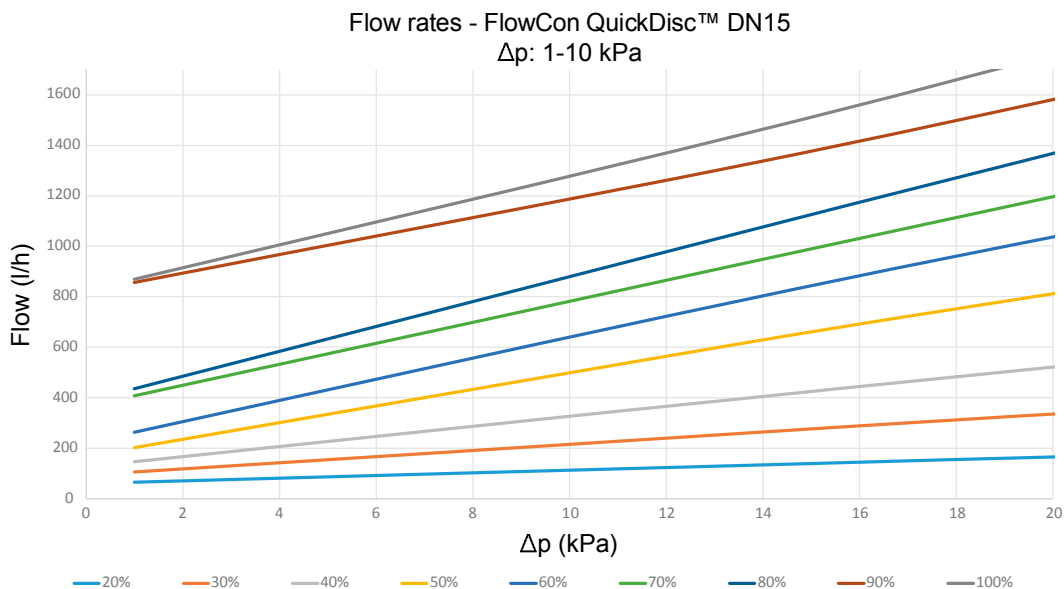
GENERAL DESCRIPTION

FlowCon QuickDisc™ is a flow limiting valve intended to be used as partner valve to the FlowCon DPCV range. Installation of a FlowCon QuickDisc™ valve will allow manual flow adjustment, flow verifications through the build in venturi as well as isolation functionality. The valve does not react to chemical treatment in water and is built with a ceramic disc, providing equal percentage flow openings ensuring smooth flow setting. In general, the valve is more compact compared with globe type Double Regulating Valve (DRV's). Furthermore it operates with significantly reduced differential pressure loss making it a very energy efficient alternative to traditional DRV's.

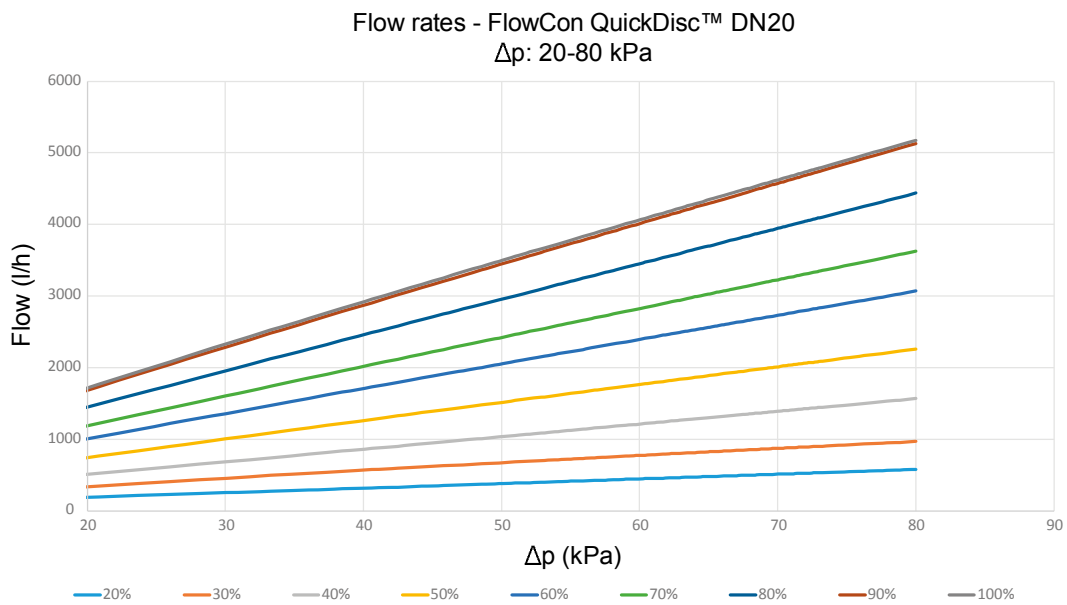
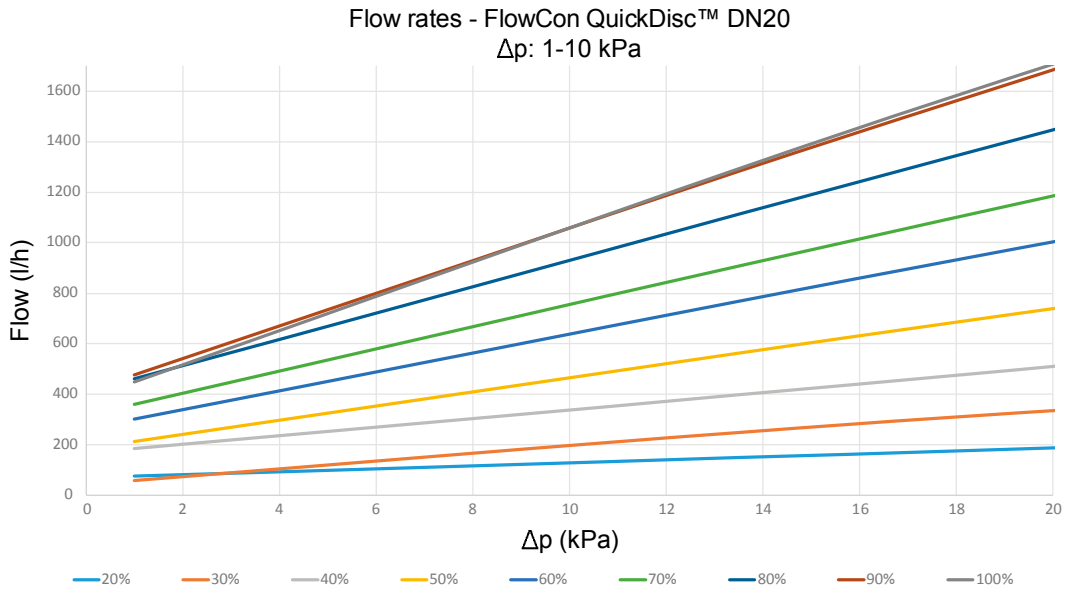
FLOW RATES (±3%)

Model no.	Valve size (mm)	Valve size (")	Pressure range	
			1.00-80.00 kPa (l/hr)	0.15-11.6 psi (GPM)
FQ.E.I.B.X	15	1/2	66.6-5260	0.29-23.16
FQ.F.I.B.X	20	3/4	75.7-5170	0.33-22.76

FLOW RATES VS MEASURED DIFFERENTIAL PRESSURE - DN15



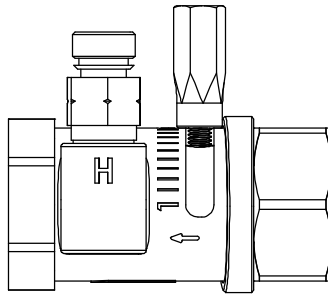
FLOW RATES VS MEASURED DIFFERENTIAL PRESSURE - DN20



OPERATION

FlowCon QuickDisc™ flow rates are set by adjusting the disc until the differential pressure readings across the venturi corresponds to the required flow (l/hr). Use the flow rates to set position.

When all valves in the system have been correctly adjusted, the locking memory stop may be set to prevent flow changes. On the FlowCon QuickDisc™, tighten the lever handle. Here after using your hand rotate the memory stop ring, so that the chamfered edge stops rotating at the lever. Do not tighten ring with a tool as it may damage ring. The ring should be snug. Now the lever can be rotated in between closed and set position only.



GENERAL SPECIFICATIONS

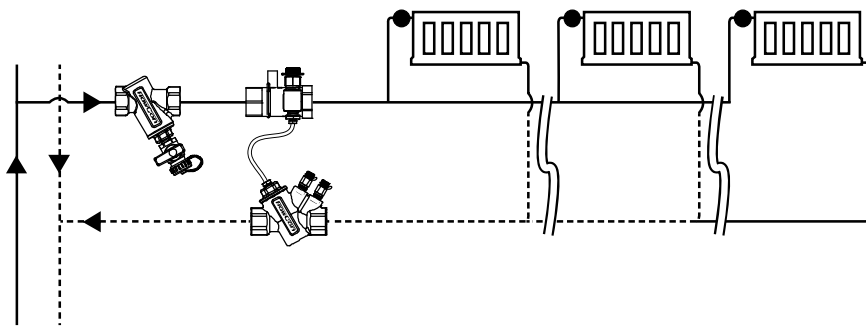
1. STATIC BALANCING VALVE – FLOWCON QUICKDISC™

- 1.1 Contractor shall install the static balancing valves where indicated in drawings.
- 1.2 Valve shall be a complete unit, mechanically operated, static balancing device, which shall accurately control flow.
- 1.3 Valve housing shall be permanently marked to show direction of flow.
- 1.4 Valve shall contain venturi for fast and accurate commissioning.
- 1.5 Ceramic disc close off function providing bubble tight leakage rate.
- 1.6 Valve shall be installed without any pipe length restrictions before and after the valve.
- 1.7 Equal percentage flow openings providing smooth flow control as valve opens.
- 1.8 Contractor shall provide an energy efficient solution with no handles, giving low radiant energy losses.
- 1.9 Contractor shall provide a low torqued solution due to the ceramic disc construction.

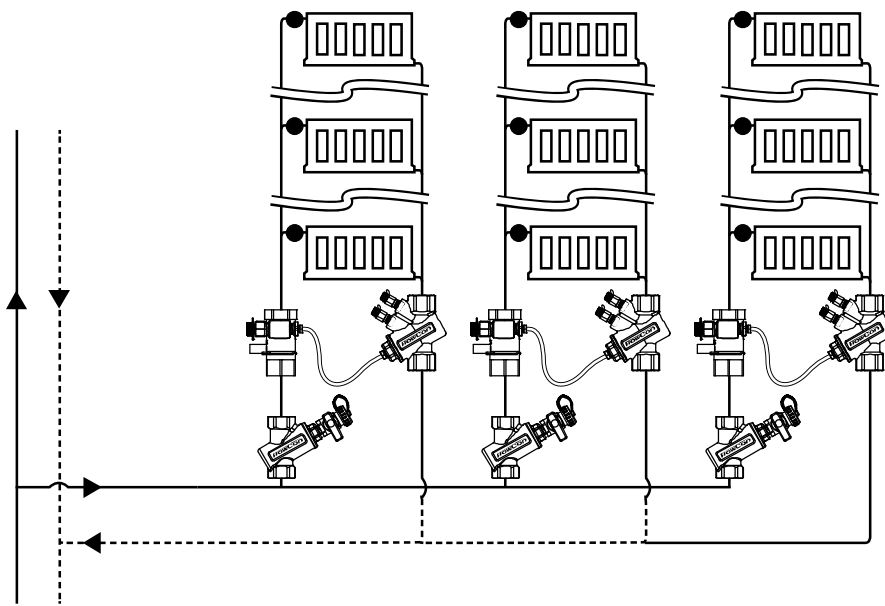
2. VALVE HOUSING

- 2.1 Valve housing shall consist of DZR - Dezincification Resistant Brass (EN 12165 - CW602N), rated at no less than 2500 kPa static pressure at +120°C.
- 2.2 Pressure/temperature test plugs for verifying accuracy of flow performance shall be available for all valve sizes.

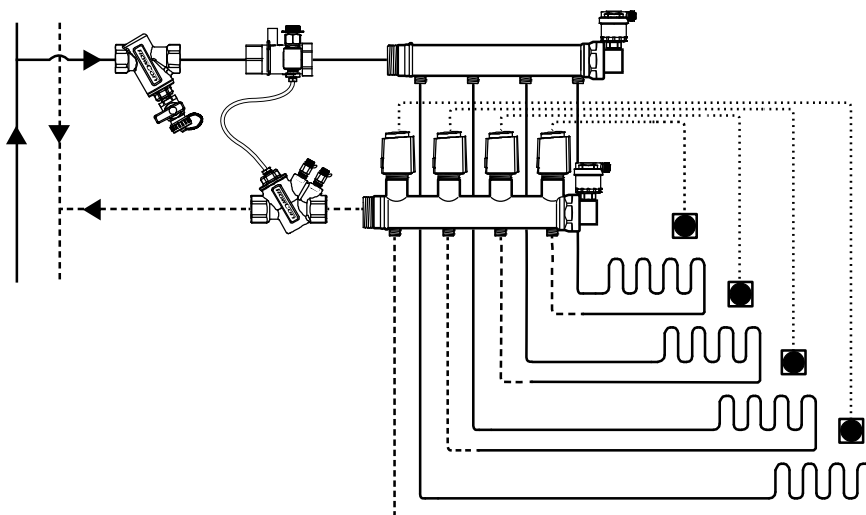
APPLICATION AND SCHEMATIC EXAMPLE



FlowCon SDP mounted with FlowCon QuickDisc™ on the branch in 2-pipe heating system.



FlowCon SDP mounted with FlowCon QuickDisc™ on the riser in 2-pipe heating system.



FlowCon SDP mounted with FlowCon QuickDisc™ on a manifold for underfloor heating system.

Контактная информация:

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