



Flow Control Valve

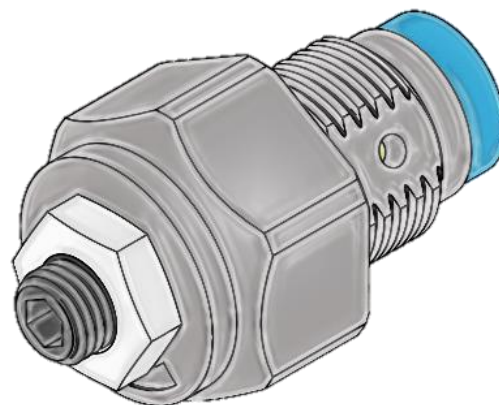
Model FC

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Model No. Selection

FC **G 1/8**



Flow Control

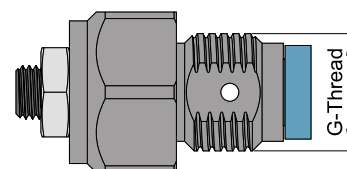
FC

G Port Size

G 1/8

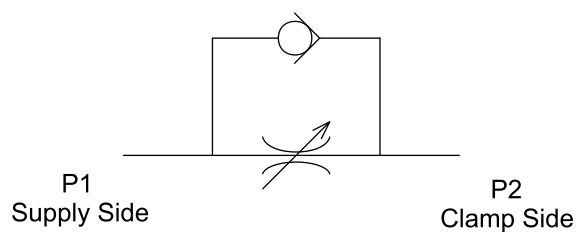
G 1/4

G 3/8



Control Method

Circuit Symbol :- Meter- in

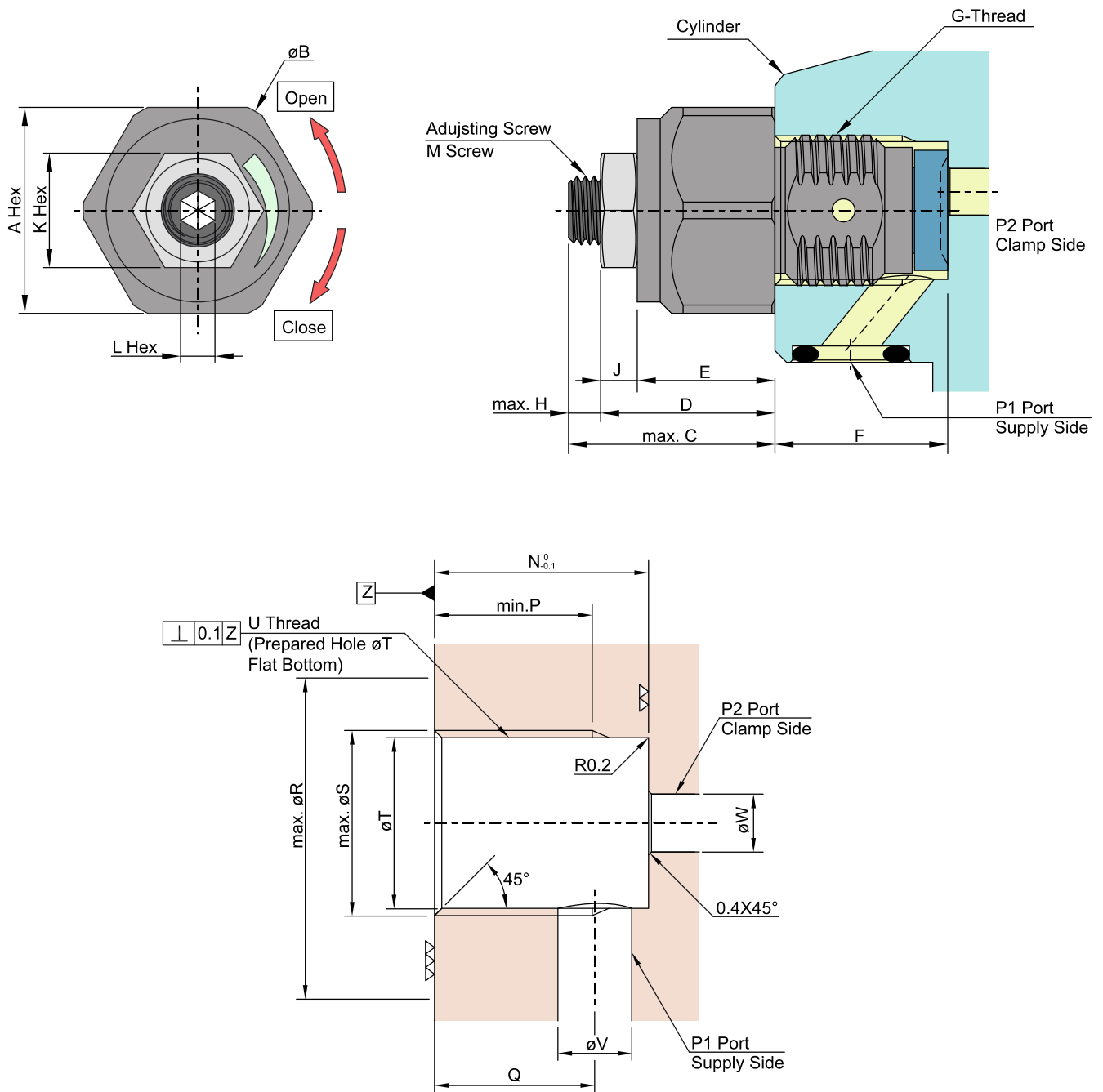


Technical Data

Specifications

- There are three G-thread sizes: G1/8, G1/4 and G3/8
- Control method is meter-in type flow.
- Pressure Range: - 10-70 Bar
- Operating Temperature: - 0-70 °C
- Fluid Used: - General mineral based hydraulic oil (ISO – VG32 Equivalent)

External Dimensions



- Since the $\nabla\nabla\nabla$ area is sealing part, be careful not to damage it.
- Since the $\nabla\nabla$ area is the metal sealing part of valve, be careful not to damage it. (Especially when deburring)
- No cutting chips or burr should be at tolerance part of machining hole.
- As the figure illustrates, P1 port is used as hydraulic supply and P2 port as the clamp side.
- Prefer short G-thread plugs for this machining hole when not using flow control valve or else dimension P should be as standard G-thread plug specification.

Model No.	FC-G1/8	FC-G1/4	FC-G3/8
A	14	18	22
ØB	15.5	20	24
C	16.5	18	21
D	13.2	15.2	18
E	10	12	13
F	(11.6)	(15.1)	(17.6)
G Thread	G1/8	G1/4	G3/8
H	3.3	2.8	3
J	3.2	3.2	5
K	10	10	13
L	3	3	4
M Thread	M6X0.75	M6X0.75	M8X0.75
N	11.5	15	17.5
P	8.5	11	13
Q	8.5	11	13
ØR	16	20.5	24.5
ØS	10	13.5	17
ØT	8.7	11.5	15
U Thread	G1/8	G1/4	G3/8
ØV	2~3	3~4	4~5
ØW	2.5~5	3.5~7	4.5~9



Cautions

1. Check the usable fluid.
 - i.e. General Mineral Based Hydraulic Oil (ISO – VG32 Equivalent)
 - Make sure the hydraulic fluid not deteriorated.
2. If there is something wrong with the circuit design, it leads to the applications malfunction and damage.
3. Hydraulic supply
 - Never exceed the given pressure limit otherwise it will cause malfunction of the product.
 - If the flow rate is too high, excessive speed can be caused and lead to wear and damage to cylinder components.
4. It is dangerous to air bleed during operation under high pressure. It must be done under lower pressure.
5. Procedure before piping
 - The pipeline, piping connector and fixture circuits should be cleaned by thoroughly flushing.
 - The dust and cutting chips in the circuit may lead to fluid leakage and malfunction.
 - There is no filter provided with product, which prevents foreign materials and contaminants from getting into the circuit.
 - While applying the sealing tape ensure that no pieces of sealing tape enters into the circuit, it can lead to oil leakage and malfunctions.
 - Please implement piping constructions in a clean environment to prevent anything getting into the product.
6. Do not disassemble or modify the product.
 - If the product is modified, then malfunction occurs.
7. Please contact us for overhaul and repair.