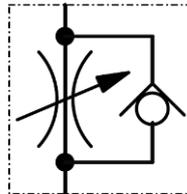


- Throttle check valve size 1 ... size 4
- Line mounting valve
- Brass body
- up to 210 bar, 60 l/min



Description

Series EFC units are pipe-mounting throttle check valves with threads from G 1/8" to G 1/2".

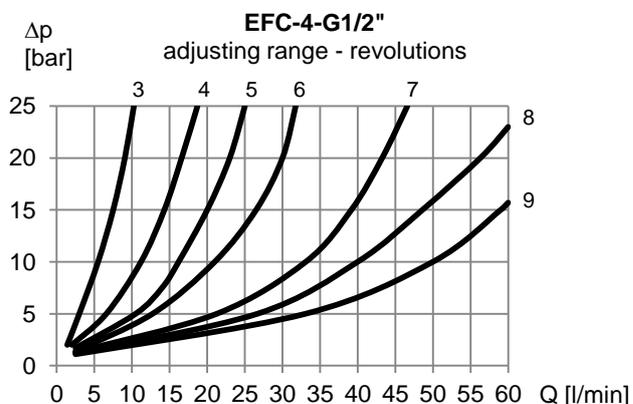
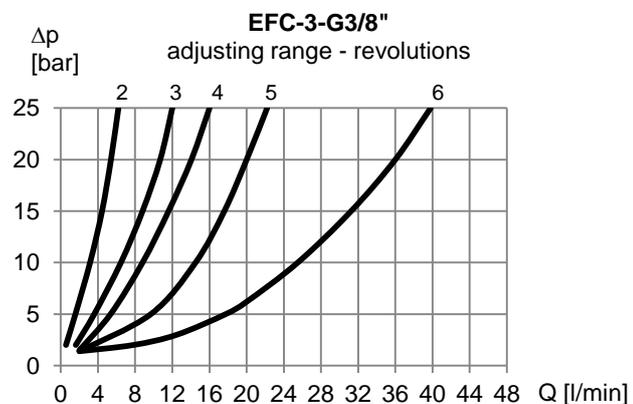
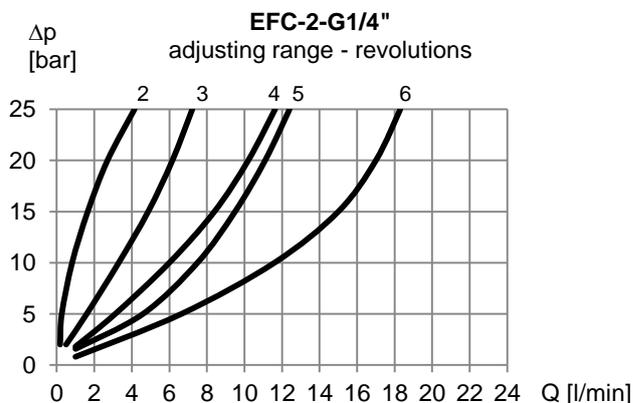
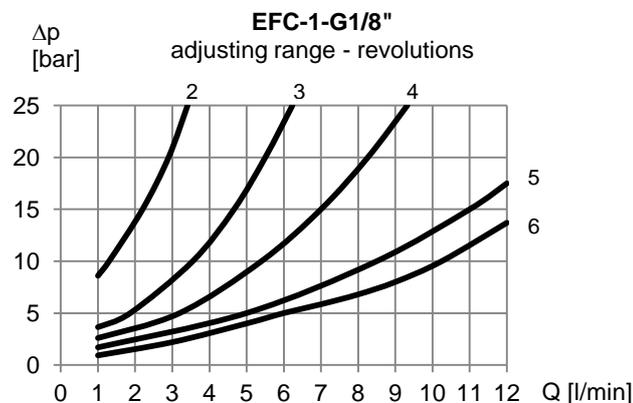
The throttling is made by an annular gap or an eroded slot (micro fine adjustment).

Technical Data

General Specifications	EFC
Design:	annular gap or eroded slot
Mounting method:	pipe-mounting valves
Size:	G1/8" ... G1/2" (see table dimensions)
Mounting position:	any

Hydraulic Specifications	
Max. operating pressure:	210 bar
Max. volume flow:	60 l/min
Fluid:	hydraulic oil, water and compressed air
Temperature range:	-20°C ... +90°C (NBR) -60°C ... +200°C (FKM)

Characteristics (annular gap throttling)

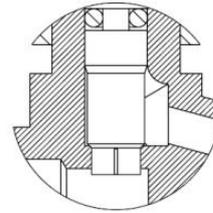


Pressure difference Δp at constant throttle position in relation to the volume flow Q
 Oil temperature $t_{oil} = 50^{\circ}C$
 Viscosity $\nu = 35 \text{ mm}^2/s$

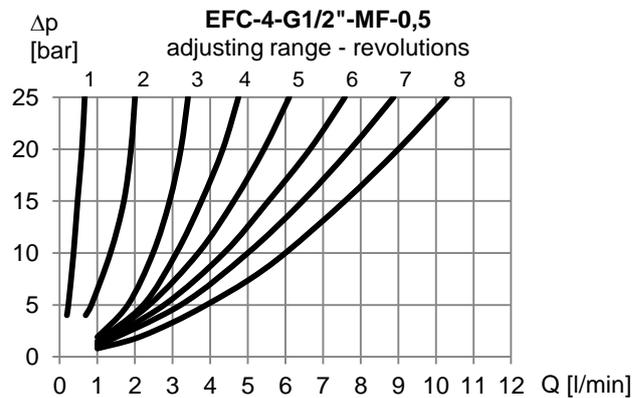
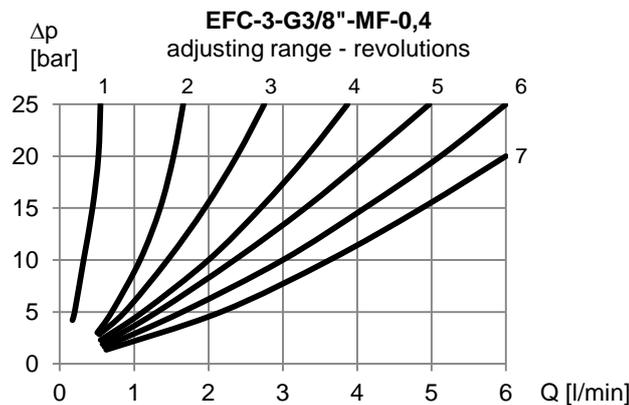
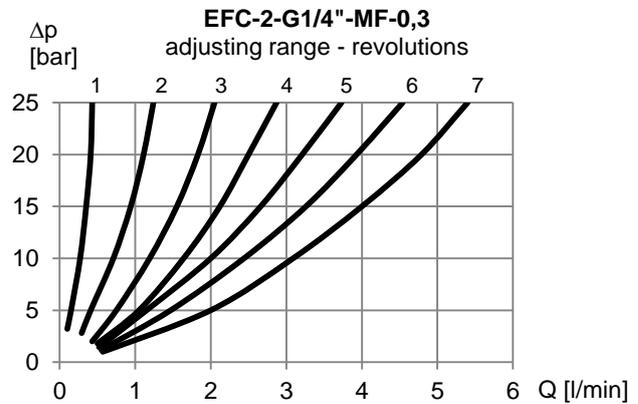
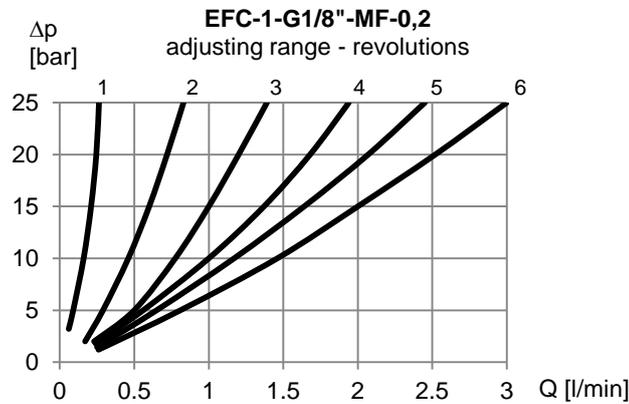
Special execution with micro fine adjustment:

Eroded slot, available with different slot width:

- EFC-1-G1/8" slot width 0,16mm and 0,20mm
- EFC-2-G1/4" slot width 0,16mm, 0,20mm and 0,30mm
- EFC-3-G3/8" slot width 0,20mm, 0,30mm and 0,40mm
- EFC-4-G1/2" slot width 0,30mm, 0,40mm and 0,50mm



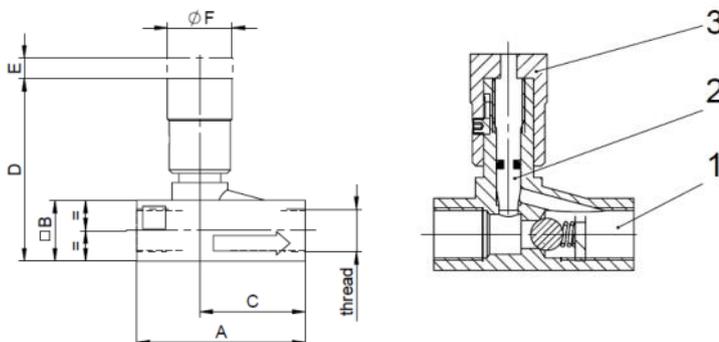
Characteristics (throttling by eroded slot)



Pressure difference Δp at constant throttle position in relation to the volume flow Q

- Oil temperature $t_{oil} = 50^{\circ}C$
- Viscosity $\nu = 35 \text{ mm}^2/s$

Dimensions



Item	Qty.	Description	Material
1	1	valve body	brass
2	1	spindle	stainless steel
3	1	adjusting knob	aluminium

	Size	Thread	A	B	C	D	E	ØF	Weight kg
EFC-1	NW 6	G1/8"	38,5	14,0	23,0	47,0	6,5	19,0	0,09
EFC-2	NW 8	G1/4"	50,0	18,0	31,0	54,0	6,0	19,0	0,14
EFC-3	NW 10	G3/8"	59,5	22,5	39,0	64,5	6,0	25,5	0,27
EFC-4	NW 12	G1/2"	83,0	28,0	54,0	79,0	8,0	33,0	0,50

Type code

EFC	-...	-...	-...	-...	-...	-...
						Option
						omit = valve body in brass
						NI = valve body in brass, nickel-plated (on request)
						Sealing
						omit = NBR o-ring
						V = FKM o-ring (Viton)
						Slot width in mm (only with special execution MF)
						0,16 0,20 0,30 0,40 0,50
						MF = micro fine adjusting (on request)
						Thread
						G1/8" G1/4" G3/8" G1/2"
						Size
						1 2 3 4
						Throttle check valve adjustable

Ordering example

- Throttle check valve, with annular gap
- Size 2
- Thread G1/4"
- Sealing NBR

or

- Throttle check valve adjustable, with micro fine adjustment
- Size 2,
- Thread G1/4"
- Eroded slot, width 0,20mm
- Sealing FKM

Type description

EFC-2-G1/4"

EFC-2-G1/4"-MF-0,20-V

Application notes

The maximal operating pressure must not be exceeded and any pressure peaks must be taken into consideration.

Buyers bear the sole responsibility for ensuring that the selected products are suitable for their applications. Buyers normally establish this by undertaking qualification programs on test stands, or by evaluating the performance of prototype machines or systems.