

BENCOR (Pty) Ltd.

Flow valves



Throttles type Q, QR, QV, and FG

Throttles are flow valves. These valves, types Q, QR, and QV, are available in five sizes and are used to limit the flow in accumulator and control circuits. They feature a slotted throttle section which is much less sensitive to contamination than throttles with annular gaps (no edge filter effect).

The fine throttles, type FG, are preferred for applications where the switching periods of directional valves have to be adjusted, the prevention of pressure surges is required, or for the dampening of oscillations etc. The throttle effect can be adjusted via the thread, altering the effective slot length.

These valves are only available in "tool adjustable" versions.

Nomenclature: Throttle
Throttle check valve

Design: Cartridge
Individual valve for pipe mounting
• corner housing
• banjo bolt
• swivel housing

Adjustability: Tool adjustable

P_{max}: 300 400 bar

Q_{max}: 0 ... 80 l/min



Basic types and general parameters

Basic type and size	Flow Q _{max} (l/min) ¹⁾	Oper. pressure P _{max} (bar)	Schematic drawings of the devices			Symbol
			Standard screw-in throttle	banjo bolt	swivel housing	
FG	0,15	300				FG.. Q..
Q20, QR20, QV20	12	400				FG 1 QR..
Q30, QR30, QV30	25	400				FG 2 QV..
Q40, QR40, QV40	50	400				
Q50, QR50, QV50	90	400				
Q60, QR60, QV60	120	315				

¹⁾ This figures apply for valves fully opened (observe red indicator) with a back pressure of approx. 50 bar (throttled direction of flow)

Additional versions

- Throttles for in-line installation.
- All sizes available in banjo bolt or swivel housing versions.

Size Q..20 to Q..50 also available with corner housing, accepting pipes Ø6, Ø8, Ø10, Ø12, Ø16, Ø20 mm; type FG Ø6, Ø8mm only)