



Description The flow control valve functions as a pinch valve in a new design of housing with full flow cross-section. Since the straight valve passage has neither constrictions nor back-points, there is no danger of clogging or blockage. Frictional loss is at a minimum.

Media Compressed air, non-corrosive gases, liquids or other paste-like or powdery media. Solids are enclosed by the flexible sleeve at shut-off.

Sleeve Highly flexible with double-woven reinforcement in eight different grades. Sleeve simple to change.

Pressures Operating pressure: max. 4.0 bar Pilot pressure: max. 6.5
Differential pressure: max. 2.5 bar Closing pressure: $P_1 + 2.5$ bar from DN32, $P_1 + 2$ bar from DN40 on

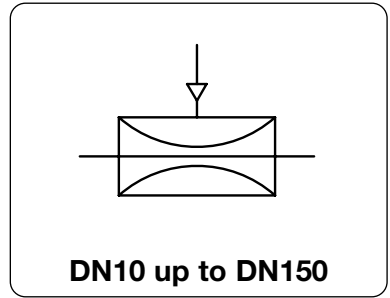
Vacuum If vacuum is greater than -100 mbar, vacuum compensation should be provided on the control side.

Accuracy In the flow range of 0 to 70% the accuracy of the linearity of pilot pressure to flow is approx. 10%.

Mounting position any

Temperature range 0 °C to max. 100 °C / 32 °F to max. 212 °F, subject to sleeve material

Material Body: POM at model QP or aluminium die-cast at model QS Sleeve: depending on selected version



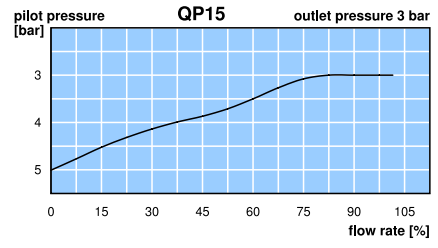
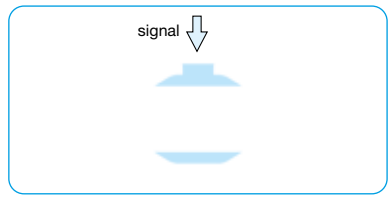
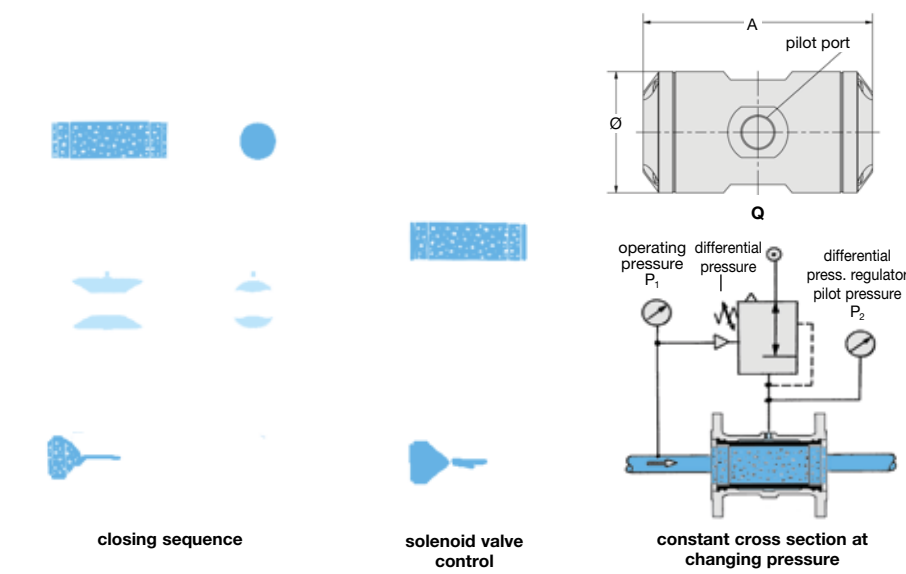
Dimensions		Nominal size	Volume of control chamber	Pilot port	Operating pressure	Connection thread	Order number
A	Ø						
mm	mm	DN	l	G	max. bar	G / flange	

Flow control valve							operating pressure max. 4 bar, pilot pressure max. 2.5 bar above operating pressure	Q
80	44	10	0.03	G $\frac{1}{4}$	4	G $\frac{3}{8}$	QP10 -03NR	
95	50	15	0.04	G $\frac{1}{4}$	4	G $\frac{1}{2}$	QP15 -04NR	
110	58	20	0.05	G $\frac{1}{4}$	4	G $\frac{3}{4}$	QP20 -06NR	
125	65	25	0.07	G $\frac{1}{4}$	4	G1	QP25 -08NR	
140	83	32	0.10	G $\frac{1}{4}$	4	G1 $\frac{1}{4}$	QP32 -10NR	
150	95	40	0.13	G $\frac{1}{4}$	4	G1 $\frac{1}{2}$	QP40 -12NR	
200	100	50	0.23	G $\frac{1}{4}$	4	G2	QS50 -16NR	
240	134	65	0.49	G $\frac{1}{4}$	4	G2 $\frac{1}{2}$	QS65 -20NR	
290	154	80	0.95	G $\frac{1}{4}$	4	G3	QS80 -24NR	
280	220	100	1.80	G $\frac{3}{8}$	4	flange	QS100-FLNR	
350	250	125	3.30	G $\frac{3}{8}$	4	flange	QS125-FLNR	
420	285	150	6.40	G $\frac{3}{8}$	4	flange	QS150-FLNR	



Special options, add the appropriate letter

- flange connection** according to DIN 2532, PN10 from G1 $\frac{1}{4}$ on Q ... -FL ...
- sleeve NR** natural rubber, black 80 °C / 176 °F Q ... -NR
- sleeve NRL** rubber, suitable for food, black 70 °C / 158 °F Q ... -NL
- sleeve NRLH** rubber, suitable for food, light 70 °C / 158 °F Q ... -NH
- sleeve NBR** nitrile rubber / Buna-N, suitable for food 80 °C / 176 °F Q ... -NB
- sleeve EPDM** ethylene-propylene rubber, suitable for food, black 100 °C / 212 °F Q ... -EP
- sleeve FKM** fluorine rubber, black 100 °C / 212 °F Q ... -FK
- sleeve CR** chloroprene rubber / neoprene, black 80 °C / 176 °F Q ... -CR
- sleeve CSM** natural rubber, chlorosulphonyl polyethylene 80 °C / 176 °F Q ... -CS



Stainless steel pinch valves: see chapter for stainless steel devices

PDF CAD
www.aircom.net



Order example:
QP10-03NR