

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 to DN32, $P_1 + 2$ bar from DN40 on

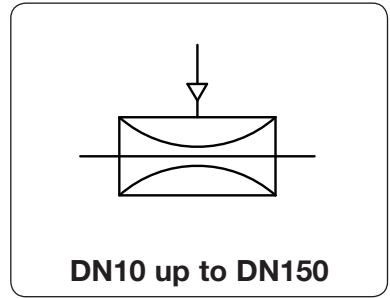
Vacuum If vacuum is greater than -100 mbar, vacuum compensation should be provided on the control side.

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	I	G	max. bar	G / flange	
mm	mm	l				

Flow control valve							Q
operating pressure max. 4 bar, pilot pressure max. 2.5 bar above operating pressure							
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

