

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.

Control characteristics From closed position to open position the linearity of control signal to flow is < 10% F.S. This is valid for 0 - 70% of the flow range. Used in combination with a proportional valve, this is an excellent flow control valve for many different media.

Media Compressed air, many kinds of gases, water and many other liquids suitable for elastomers.

Pressures Operating pressure max. 4 bar / 60 psi, control pressure max. 6.5 bar / 100 psi. Pressure difference max. 2.5 bar/37 psi. Required closing pressure equal to effective operating pressure. For DN 40 only 2 bar/29 psi.

Mounting position Any; in horizontal position: control port pointing upwards.

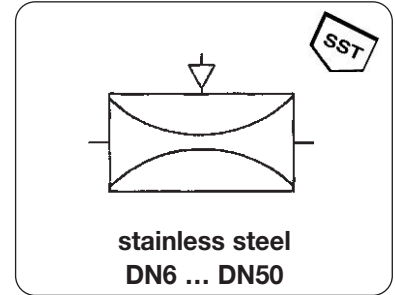
Closing characteristics Completely seals off gaseous, liquid, pasty and powdery media. Solids are enclosed by the flexible sleeve.

Sleeves Highly flexible with double woven reinforcement in 8 different grades. Sleeve simple to change.

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

Temperature range Each sleeve quality has its specific temperature range for wet media. In case of dry media max. temperature 30 °C lower.

Materials Body and endcap of stainless steel 1.4435. Wetted sleeve corresponding table above



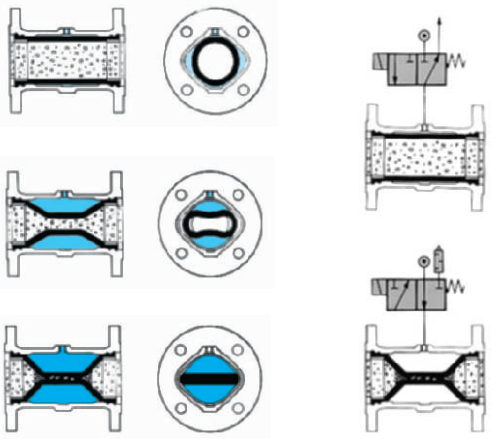
Dimensions		Sleeve	Volume of	Control	Nominal	Connection	Order
Ø	length	spare part	contr. chamber	port	size	thread	number
mm	mm	order number	litre	G	DN	G	

Pinch valve		operating pressure max. 4 bar, pilot pressure max. 2.5 bar above operating pressure, PN10	body 1.4435,	sleeve NR	QE		
26	70	QEM06	10	M5	6	G 1/4	QE06 - 02NR
38	80	QEM10	30	M5	10	G 3/8	QE10 - 03NR
44	95	QEM15	40	G 1/8	15	G 1/2	QE15 - 04NR
55	110	QEM20	50	G 1/8	20	G 3/4	QE20 - 06NR
60	125	QEM25	70	G 1/8	25	G 1	QE25 - 08NR
73	140	QEM32	100	G 1/8	32	G 1 1/4	QE32 - 10NR
83	150	QEM40	130	G 1/8	40	G 1 1/2	QE40 - 12NR
99	185	QEM50	280	G 1/4	50	G 2	QE50 - 16NR

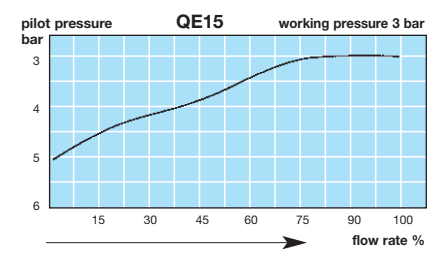
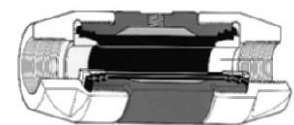
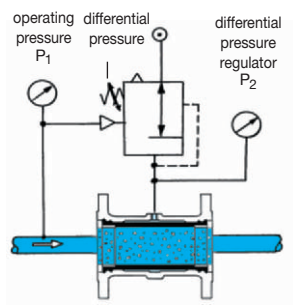


Special options add the appropriate letter

flange	as per DIN2532, PN10	> DN 32	FL	QE...FL..
sleeve NR	standard	+ 80 °C	NR	QE...NR
sleeve NRL	suitable for food	+ 70 °C	NL	QE...NL
sleeve NRLH	suitable for food, light	+ 70 °C	NH	QE...NH
sleeve NBR	nitrile / Buna N	+ 80 °C	NB	QE...NB
sleeve EPDM	ethylene-propylene	+100 °C	EP	QE...EP
sleeve FPM	Viton	+ 90 °C	FP	QE...FP
sleeve CR	neoprene, chloroprene, black	+ 80 °C	CR	QE...CR
sleeve CSM	chlorosulfonated polyethylene	+ 80 °C	CS	QE...CS



The differential pressure regulator keeps the adjusted cross-section constant even with varying operating pressures



Further pinch valves of POM or aluminium see chapter "Special devices"

Order example:
QE15 - 04NR