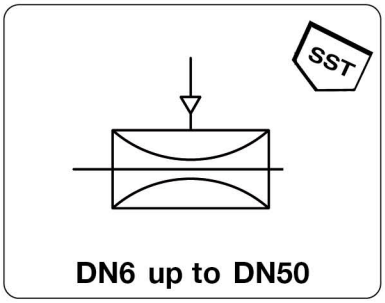
Description	The flow control valve functions as a pinch valve in a new design of housing with full flow cross-section. Since the straight valve passage has neither constrictions nor back-points, there is no danger of clogging or blockage. Frictional loss is at a minimum.
Media	compressed air, gases, 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 linearity of pilot pressure to flow is about 10% accurate.
Mounting position	any, at horizontal mounting pilot port preferably at the top
Temperature range	0 °C to max. 100 °C / 32 °F to max. 212 °F, subject to sleeve material
Material	Body: stainless steel 316L, material no. 1.4435 Sleeve: depending on selected version



DN6 up to DN50

Flow control valve

operating pressure max. 4 bar, pilot pressure max. 2.5 bar above operating pressure

Dimensions A mm	Ø mm	Nominal size DN	Chamber capacity l	Control port M5/G	Operating pressure max. bar	Connection thread G	Order number QE
70	26	6	0.01	M5	4	G¼	**QE06-02NR**
80	38	10	0.03	M5	4	G⅜	**QE10-03NR**
95	44	15	0.04	G⅛	4	G½	**QE15-04NR**
110	55	20	0.05	G⅛	4	G¾	**QE20-06NR**
125	60	25	0.07	G⅛	4	G1	**QE25-08NR**
140	73	32	0.10	G⅛	4	G1¼	**QE32-10NR**
150	83	40	0.13	G⅛	4	G1½	**QE40-12NR**
185	99	50	0.28	G¼	4	G2	**QE50-16NR**

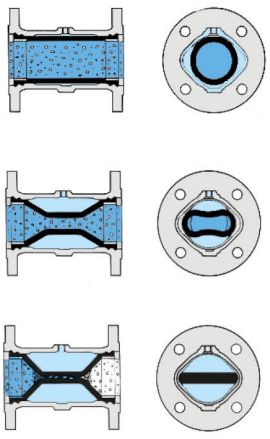
QE10

QE25

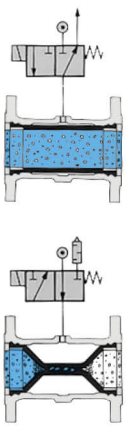
QE40

Special options, add the appropriate letter

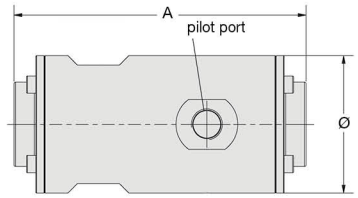
sleeve NR	natural rubber, black		80°C/176 °F	QE..-..**NR**
sleeve NRL	rubber, suitable for food, black		70°C/158 °F	QE..-..**NL**
sleeve NRLH	rubber, suitable for food, light		70°C/158 °F	QE..-..**NH**
sleeve NBR	nitrile rubber/Buna-N, suitable for food		80°C/176 °F	QE..-..**NB**
sleeve EPDM	ethylene-propylene rubber, suitable for food, black		100°C/212 °F	QE..-..**EP**
sleeve FKM	fluorine rubber, black	not QE06	100°C/212 °F	QE..-..**FK**
sleeve CR	chloroprene rubber/neoprene, black	not QE06	80°C/176 °F	QE..-..**CR**
sleeve CSM	natural rubber, chlorosulphonylpolyethylene	not QE06	80°C/176 °F	QE..-..**CS**



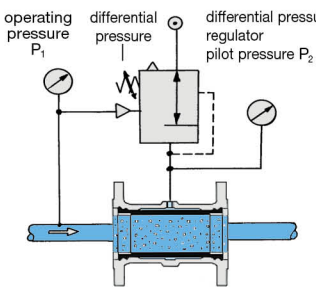
closing process



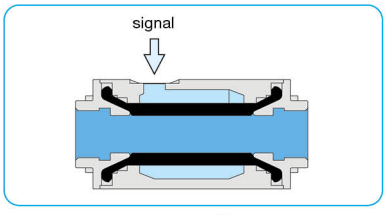
solenoid valve control



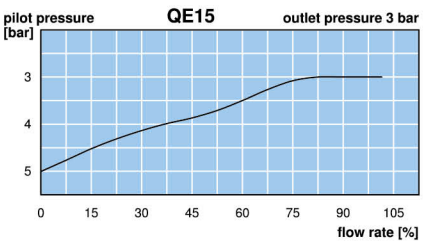
QE



constant cross section at changing operating pressure



cross section



For further pinch valves made of POM or aluminium see chapter for special devices

PDF CAD
www.aircom.net

Order example: QE06-02NR