

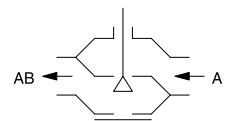
## VQE: 2-way flanged valve, PN 16

### Features

- Continuous control of cold and hot water and low-pressure steam up to 115 °C in closed circuits
- Water quality as per VDI 2035
- In combination with valve actuators AVM 322(S), AVM 234S and AVF 234S as control unit
- Not suitable for drinking water
- Valve with flange connection as per EN 1092-2, seal form B
- Regulating valve, free of silicone grease, painted black
- Characteristic can be set with SUT (SAUTER Universal Technology) valve actuators to linear, equal-percentage or quadratic
- The valve is closed when the spindle is moved out
- Closing procedure against the pressure
- Valve body and seat made of grey cast iron
- Stainless-steel spindle
- Plug made of stainless steel with metal-to-metal seal
- Stuffing box made of stainless steel with wiper ring and double O-ring seal made of EPDM



VQE



### Technical data

#### Parameters

Nominal pressure	PN 16
Connection	Flange as per EN 1092-2, form B
Valve characteristic	Equal-percentage
Control ratio of valve	> 30:1
Stuffing box	2 EPDM O-rings
Leakage rate	Class III as per DIN EN 60534-4 (0.001 x K <sub>vs</sub> )
Valve stroke	20 mm (DN 65...80) 40 mm (DN 100...150)

#### Ambient conditions<sup>1)</sup>

Operating temperature <sup>2)</sup>	-10...150 °C
Operating pressure	Up to 120 °C 16 bar At 150 °C 14.4 bar Between 120 °C and 150 °C, a linear interpolation can be performed

#### Standards and directives

Pressure and temperature data	EN 764, EN 1333
Flow parameters	EN 60534- 3
Pressure Equipment Directive	97/23/EC (fluid group II) With CE label

### Overview of types

Type	Nominal diameter	K <sub>vs</sub> value	Weight
VQE065F300	DN 65	63 m <sup>3</sup> /h	23.8 kg
VQE080F300	DN 80	100 m <sup>3</sup> /h	30.2 kg
VQE100F300	DN 100	160 m <sup>3</sup> /h	41.3 kg
VQE125F300	DN 125	220 m <sup>3</sup> /h	62 kg
VQE150F300	DN 150	320 m <sup>3</sup> /h	89 kg

<sup>1)</sup> Humidity must not exceed 75%

<sup>2)</sup> At temperatures below 0 °C, use a stuffing box heater. Use adapter (accessory) at temperatures above 130 °C



### Accessories

Type	Description
0372336180	Adapter (required when temperature of the medium is 130...150 °C)
0378284100	Stuffing box heater 230 V~, 15 W for medium below 0 °C
0378284102	Stuffing box heater 24 V~, 15 W for medium below 0 °C
0378369101	Complete replacement stuffing box

### Combination of VQE with electric actuators

- i** *Warranty: The technical data and pressure differences indicated here are applicable only in combination with SAUTER valve actuators. The warranty does not apply if used with valve actuators from other manufacturers.*
- i** *Definition of  $\Delta p_s$ : Maximum admissible pressure drop in the event of a malfunction (pipe break after the valve) at which the actuator reliably closes the valve by means of a return spring.*
- i** *Definition of  $\Delta p_{max}$ : Maximum admissible pressure drop in control mode at which the actuator reliably opens and closes the valve.*

### Combination of VQE with electric actuators, actuating power 1000 N

Actuator	AVM322F120 AVM322F122	AVM322SF132
Page	256	259
Actuating power	1000 N	1000 N
Control signal	2-/3-point	2-/3-point, 0...10 V, 4...20 mA
Running time	120/240 s	120/80 s

#### $\Delta p$ [bar]

Closes against the pressure	$\Delta p_{max}$	$\Delta p_{max}$
VQE065F300	2.5	2.5
VQE080F300	1.5	1.5

Cannot be used to close with the pressure

 At media temperature above 100 °C, accessories are required.

### Combination of VQE with electric actuators, actuating power 2500 N, 2000 N

Actuator	AVF234SF132 AVF234SF232	AVM234SF132	PLUS2G
Page	274	267	
Actuating power	2000 N	2500 N	4500 N
Control signal	2-/3-point, 0...10 V, 4...20 mA	2-/3-point, 0...10 V, 4...20 mA	2-/3-point, 0...10 V, 4...20 mA
Running time for DN 65, DN 80	40/80/120 s	40/80/120 s	0.25 / 0.38 / 0.47 / 1.0 mm/s
Running time for DN 100...150	80/160/240 s	80/160/240 s	0.25 / 0.38 / 0.47 / 1.0 mm/s

#### $\Delta p$ [bar]

Closes against the pressure	$\Delta p_{max}$	$\Delta p_s$	$\Delta p_{max}$	$\Delta p_{max}$
VQE065F300	3.0	5.1	3.0	11.0
VQE080F300	3.0	3.4	3.0	7.1
VQE100F300	2.0	2.2	2.0	4.6
VQE125F300	1.4	1.4	1.5	2.9
VQE150F300	1.0	1.1	1.0	2.0

Cannot be used to close with the pressure

 Spring return: AVF234SF132 normally closed (NC); AVF234SF232 normally open (NO)

 At temperatures above 130 °C, accessories are required