DATA SHEET

T 5862 EN



Type 3260/3374 Electric Control Valve
Types 3260/3372, 3260-1 and 3260-7 Pneumatic Control Valves
Type 3260 Globe Valve

Application

Globe valves for use in industrial applications as well as heating, ventilation and air-conditioning systems

DN 65 to 150 · PN 16 · Temperatures up to 150 °C

Special features

- Type 3260 designed as a globe valve
- Connection between valve and actuator: form-fit connection
- Type 3260 Globe Valve in special version for oils, up to DN 125
- Valves to protect panel heating according to DIN 4747 can also be combined with electric actuator with fail-safe action

Versions

Electric control valves with Type 3260 Globe Valve						
Type 3260/3374 1)	PN 16	DN 65 to 150				
Pneumatic control valves with Type 3260 Globe Valve						
Type 3260/3372	PN 16	DN 65 to 150				
Type 3260-1	PN 16	DN 65 to 80				
Type 3260-7 ²⁾	PN 16	DN 65 to 80				

¹⁾ Type 3374-21, Type 3374-31, Type 3374-25 and Type 3374-35 Electric Actuators with fail-safe action

²⁾ Pneumatic actuator suitable for integrated positioner attachment



Also available:

- Type 3260 Three-way Valve ► T 5861

Principle of operation (Fig. 3)

The process medium flows through the valve in the direction indicated by the arrow in the flow-to-open direction. The cross-sectional area of flow between the seat (2) and plug (3) is determined by the position of the valve stem. The plug is moved by changing the control signal applied to the actuator. The plug stem (6) is designed to form-fit the actuator stem (8.1) and is sealed by an EPDM or FKM seal.

Fail-safe position

For globe valves mounted to an actuator with fail-safe action, the control valve has two different positions which become effective upon power supply failure:

Actuator stem extends

- The globe valve closes upon power supply failure

Actuator stem retracts

- The globe valve opens upon power supply failure

Electric actuators

The Type 3374 Electric Actuator can be controlled by threestep signals or, in the version with positioner, with signals from 0/4 to 20 mA or 0/2 to 10 V. Various electrical accessories can be optionally installed.

Types 3374-21, 3374-31, 3374-25 and 3374-35 Actuators are able to perform a fail-safe action. Refer to Table 4.

The Type 3260/3374 Electric Control Valve with safety function is not tested according to DIN EN 14597.

Refer to the data sheets for more details on the electric actua-

▶ T 8331: Type 3374 Electric Actuator

Pneumatic actuators

The Types 3271 and 3277 Pneumatic Actuators as well as the Type 3372 Electropneumatic Actuator work with various control signals (see Table 5.2).

All actuators are available for fail-safe action "actuator stem extends (FA)" or "actuator stem retracts (FE)".

The Type 3277 Pneumatic Actuator is suitable for integral positioner attachment. Various optional accessories can be mounted onto the actuator.

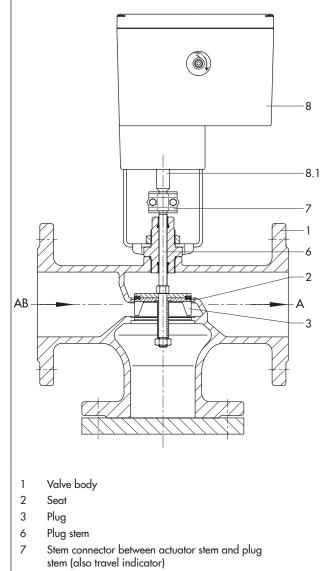
Types 3271 and 3277 Actuator are also available with handwheel.

Refer to the data sheets for more details on the pneumatic actuators:

▶T 8310-1: Types 3271 and 3277 Pneumatic Actuators

Installation of the control valve

The control valves can be mounted in any position. However, the electric actuators must not be suspended downwards. Make sure that the ambient temperature at the point of installation does not exceed or fall below the permissible temperature limits specified for each actuator.



- 8 Actuator
- 8.1 Actuator stem

Fig. 3: Functional diagram of Type 3260/3374

Ordering text

Control Valve Type ... with Type 3260 designed as globe valve:

□ 3260/3374-..., □ 3260/3372, □ 3260-1, □ 3260-7

- Nominal size: DN ...
- K_{VS} coefficient: ...
- Special version for oils: □ yes, □ no

Further specifications on the electric actuator

- Control: □ three-step signal, □ positioner
- Supply voltage ...
- Electric additional equipment ...

Further specifications on the pneumatic actuator

- Effective area: ...
- Bench range: ...
- Fail-safe action: □ stem extends (FA), □ stem retracts (FE)

Table 1: Technical data

Type 3260 Globe Valve								
Nominal size	DN	65	80	100	125	150		
Pressure rating	PN	16						
Permissible temperature range	°C			5 to 150				
Plug seal			Soft seal					
Leakage class according to IEC 60	534-4	Class IV (≤ 0.01 % of K _{VS} coefficient)						
Rated travel	mm	1	15 30					

Table 2: Materials · Material numbers according to DIN EN

Type 3260 Globe Valve	
Valve body and seat	Cast iron EN-GJL-250 (GG-25)
Plug	Brass · CC754 · CW617
Plug stem	Stainless steel 1.4305
Seat-plug seal	EPDM (standard) · FKM (special version up to DN 125)
Stem seal	EPDM seal ring
Special version for oils (up to DN 125)	FKM seal
Rod-type yoke	See actuator

Table 3: Nominal sizes, K_{VS} coefficients and seat diameters

Type 3260 Globe Valve							
Nominal size	DN	65	80	100	125	150	
K _{VS}		60	80	160	250	320	
Seat Ø	mm	70	70	100	130	130	
Rated travel	mm	15	15	30	30	30	

Table 4: Possible combinations

Type 3260 Glo	obe Valve/actua	tor						
	Fail-safe action	n: actuator stem			Nominal size DN			
Туре	Extends	Retracts	Details in	65	80	100	125	150
Electric actuate	Electric actuators							
3374-11	-	-		•	•		-	
3374-10	-	-		•	•	•	•	•
3374-21	•	-		•	•		-	
3374-31	-	•	► T 8331	•	•		-	
3374-25 ¹⁾	•	-		•	•	•	•	•
3374-35 ¹⁾	-	•		•	•	•	•	•
Pneumatic act	Pneumatic actuators							
3372	•	•	► EB 8313	•	•	•	•	•
3271 1)	•	•	N T 0210 1	•	•		_	
3277 1)	•	•	► T 8310-1	•	•		_	

¹⁾ Type 3260 Globe Valve in combination with these actuators with rod-type yoke: DN 65 to 80: order no. 1890-8696 DN 100 to 150: order no. 1400-8822

 Table 5: Permissible differential pressures (all pressures stated in bar)

The specified differential pressure may be restricted by the pressure-temperature diagram.

Table 5.1: Type 3260/... Electric Control Valves

Type Actuator	3374-11 ¹⁾	3374-10 ¹⁾	3374-21/-31	3374-25/-35			
K _{VS} coefficients	Δp when $p_2 = 0$ bar						
60	4.0	4.0	4.0	4.0			
80	4.0	4.0	4.0	4.0			
160	_	2.8	_	1.9			
250	-	1.7	_	1.1			
320	-	1.7	-	1.1			

¹⁾ The maximum differential pressure is reduced by 50 % when actuators with positioners in the version with faster motors are used.

Table 5.2: Type 3260/... Pneumatic Control Valves

Туре	e Actuator	3372				3271 and 3277			
Actuator area 4)	cm ²	120	120 2)	350 ²⁾	350 ³⁾	175v2	175v2	350	350
Bench range 1)	min. bar max. bar	1.4 2.3	2.1 3.3	0.8 1.3	0.9 1.65	0.6 3.0	1.3 2.9	0.4 2.0	0.6 3.0
Maximum supply pressure	bar	4.0	5.0	2.3	2.5	3.7	4.3	2.5	3.7
K _{VS} coefficie	nts				Δp when $ $	$p_2 = 0 bar$			
60		3.8	4.0	-	_	2.1	4.0	3.0	4.0
80		3.8	4.0	-	_	2.1	4.0	3.0	4.0
160		-	_	3.1	3.1	-			
250		-	_	1.8	1.8	_			
320		-	_	1.8	1.8		-	_	

¹⁾ Other bench ranges only on request

Table 6: Dimensions and weights

Table 6.1: Type 3260 Globe Valve

Nominal size	DN	65	80	100	125	150
Overall length L1	mm	290	310	350	400	480
Overall length L2	mm	159	171	181	233	246
Height H	mm	71	71	112	112	112
Height H1 with Type 3372 Actuator (350 cm²)	mm	-	-	382	382	382
Height H2	mm	265	265	306	306	306
Weight	kg (approx.)	24	28	44	59	76

Table 6.2: Electric actuators

Туре	Type 3374-10/-11		3374-21/-31	3374-25/-35	
Weight	kg (approx.)	3.2	3.9	6.2	

Table 6.3: Pneumatic actuators

	Туре	3372		32	71	3277	
Actuator area 1)	cm ²	120	350	175v2	350	175v2	350
Height H'	mm	-	-	78	80	78	80
Height H7	mm	-	_	_		-	
Height H3 ²⁾		110	110	110	110	110	110
Diaphragm ØD	mm	168	280	215	280	215	280
Supply air port	а	G 1/4	G 1/4	G 1/4	G %	G 1/4	G %
Weight	kg (approx.)	3.7	15	6	8	10	12

v2 is added to the actuator area (e.g. 175v2 cm²) to indicate that Type 3271 and Type 3277 Actuators have a full diaphragm

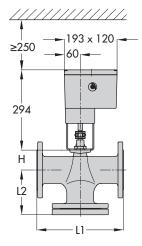
²⁾ Actuator stem extends

³⁾ Actuator stem retracts

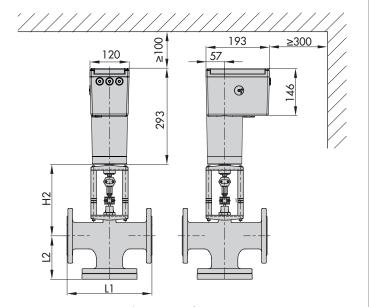
⁴⁾ v2 is added to the actuator area (e.g. 175v2 cm²) to indicate that Type 3271 and Type 3277 Actuators have a full diaphragm

²⁾ Minimum clearance required to remove the actuator

Electric control valves



Type 3260/3374-10 and -11: DN 65 to 150 Type 3260/3374-21 and -31: DN 65 to 80



Type 3260/3374-25 and -35: DN 65 to 150

Pneumatic control valves

