

T 8015-20 EN

Series 240 · Type 3241-1 and Type 3241-7 Pneumatic Control Valves

Type 3241 Globe Valve

GOST version



Application

Control valve for process engineering and industrial applications

| | |
|------------------------|------------------------|
| Valve size | DN 15 to 300 |
| Pressure rating | PN 10 to 40 |
| Temperatures | -196 to +450 °C |

Special features

Type 3241 Globe Valve operated with

- Type 3271 Pneumatic Actuator (Type 3241-1 Control Valve)
- Type 3277 Pneumatic Actuator (Type 3241-7 Control Valve)

Valve body made of

- Cast steel or cast stainless steel

Undivided valve bonnet up to DN 150

Valve plug

- Metal seal
- Soft seal
- High-performance metal seal

Optional with RFID tags with unique identification according to DIN SPEC 91406.

The control valves with their modular design can be equipped with various accessories:

Positioners, limit switches, solenoid valves and other accessories according to IEC 60534-6-1¹⁾ and NAMUR recommendation. Refer to Information Sheet ▶ T 8350 for more details.

Versions

Standard version for temperatures ranging from -10 to +220 °C or for valves sizes DN 200 to 300, also adjustable high-temperature packing from -10 to +350 °C

- **Type 3241-1** (Fig. 1 and Fig. 2) · DN 15 to 300 with Type 3271 Pneumatic Actuator (see Data Sheets ▶ T 8310-1, ▶ T 8310-2 and ▶ T 8310-3)
- **Type 3241-7** · DN 15 to 150 with Type 3277 Pneumatic Actuator for integral positioner attachment (see Data Sheet ▶ T 8310-1)

¹⁾ Accessories required. See associated actuator documentation.

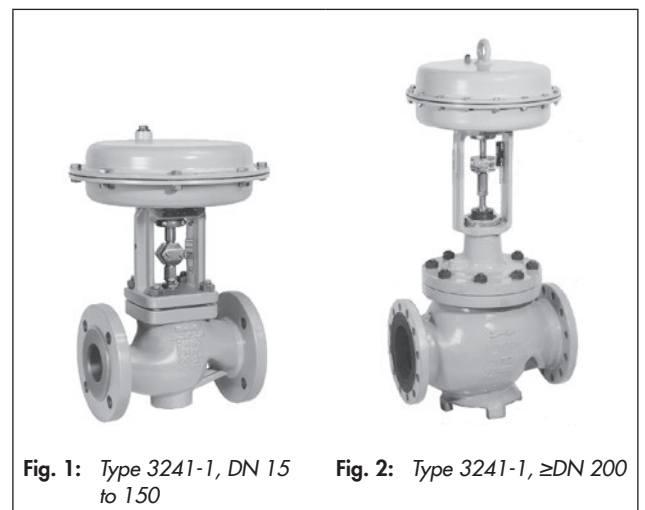


Fig. 1: Type 3241-1, DN 15

Fig. 2: Type 3241-1, ≥DN 200 to 150

Further versions:

- **Welding ends**
- **Adjustable packing** · See Information Sheet ▶ T 8000-1
- **Flow divider or AC-1** for noise reduction · See Data Sheets ▶ T 8081 and ▶ T 8082
- **Perforated plug** · See ▶ T 8086
- **Valve plug with pressure balancing** · See Technical data
- **Insulating section or bellows seal** · See Technical data
- **Stainless steel actuator** · See Data Sheet ▶ T 8310-1
- Heating jacket · On request
- **Additional handwheel** · See Data Sheets ▶ T 8310-1, ▶ T 8310-2 and ▶ T 8310-3
- **DIN version** · See Data Sheet ▶ T 8015
- **ANSI version** · See Data Sheet ▶ T 8012

Design and principle of operation

The medium flows through the valve in the direction indicated by the arrow. The valve plug position determines the cross-sectional area between the seat and plug.

Depending on how the springs are arranged in the pneumatic actuator (see Data Sheets ► T 8310-1 and ► T 8310-2), the valve has two different fail-safe positions that become effective when the supply air fails:

- **Actuator stem extends (fail-close)**
The valve closes when the supply air fails.
- **Actuator stem retracts (fail-open)**
The valve opens when the supply air fails.

Fig. 3 and Fig. 4 show configuration examples.

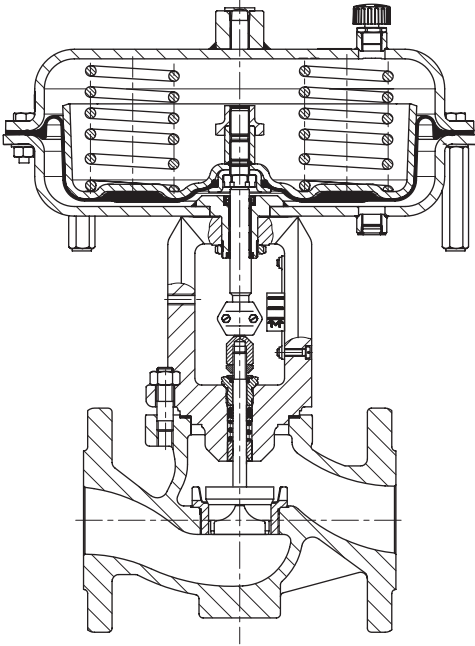


Fig. 3: Type 3241-1 Control Valve, DN 15 to 150, with Type 3271 Actuator

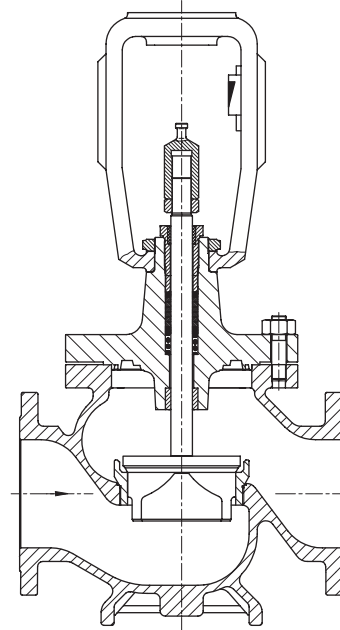


Fig. 4: Type 3241 Valve, DN 200 to 300

Technical data

Table 1: Technical data for Type 3241

| Valve size | DN | 15...300 | | |
|--|--------------------|---|--|-----------------------------|
| Material | | Cast steel 1.0619 | Cast steel 1.5638 | Cast stainless steel 1.4408 |
| Pressure rating | PN | 10 · 16 · 25 · 40 | | |
| Type of connection | Flanges | GOST 33259-2015: type F, series 1 | | |
| Seat-plug seal | | Metal seal · Soft seal · High-performance metal seal | | |
| Characteristic | | Equal percentage · Linear (according to Information Sheet ► T 8000-3) | | |
| Rangeability | | 50:1 for DN 15 to 50 · 30:1 for DN 65 to 150 · 50:1 for DN 200 and larger | | |
| Heating jacket | | Up to DN 100: PN 25 · DN 125 and larger: PN 16 | | |
| RFID tag (optional) | | Application range according to the technical specifications and the explosion protection certificates. Documents ► www.samsongroup.com > Service & Support > Electronic nameplate | | |
| Conformity | | CE · EAC | | |
| Temperature ranges in °C · Permissible operating pressures acc. to pressure-temperature diagrams (see Information Sheet ► T 8000-2) | | | | |
| Body without insulating section | | All valve sizes: -10 to +220 · Valve sizes DN 200 to 300 with high-temperature packing: -10 to +350 | | |
| Body with | Insulating section | -10 ⁴⁾ to +400 | -50 to +300 | -50 to +450 ²⁾ |
| | Long ¹⁾ | - | - | -196 to +450 |
| | Bellows seal | -10 ⁴⁾ to +400 | -50 to +300 | -50 to +450 |
| | Long ¹⁾ | - | - | -196 to +450 |
| Valve plug | Standard | Metal seal | -196 to +450 | |
| | | Soft seal | -196 to +220 | |
| | Balanced | PTFE ring | -50 to +220 · Lower temperatures on request | |
| | | With graphite ring | 10 to 450 | |
| RFID tag (optional) | | Max. permissible operating temperature: 85 °C | | |
| Leakage class according to IEC 60534-4 | | | | |
| Valve plug | | Metal seal | Standard: IV · High-performance metal seal: V ³⁾ | |
| | | Soft seal | VI | |
| | Balanced | Metal seal | Standard: IV · With PTFE or graphite pressure-balancing ring Special version: V · For high-performance (only with PTFE balancing ring) on request | |

¹⁾ Long insulating section or bellows seal up to DN 150

²⁾ DN 200 and larger: down to -196 °C

³⁾ Leakage class V for temperatures <-50 °C on request

⁴⁾ Version for lower temperatures on request

Table 2: Materials

| Standard version | | | |
|---------------------------|--|-------------------|------------------------------------|
| Valve body ¹⁾ | Cast steel 1.0619 | Cast steel 1.5638 | Cast stainless steel 1.4408 |
| Valve bonnet | 1.0460/1.0619 | 1.5637 | 1.4408/1.4401·1.4404 ⁵⁾ |
| Seat ²⁾ | 1.4006/1.4008 | 1.4404/1.4409 | 1.4404/1.4409 |
| Plug ²⁾ | 1.4006 (1.4404)/1.4008 | 1.4404/1.4409 | 1.4404/1.4409 |
| Plug seal | Seal ring for soft-seated plug: PTFE with glass fiber | | |
| | Seal ring for balanced plug: PTFE with carbon or graphite ring | | |
| Guide bushing | 1.4104 | 1.4404 | 1.4404 |
| Packing ³⁾ | V-ring packing: PTFE with carbon · Spring: 1.4310 | | |
| Body gasket | Graphite on metal core | | |
| Insulating section | 1.0460 | 1.5637 | 1.4401·1.4404 ⁵⁾ |
| Bellows seal | Intermediate piece | 1.0460 | 1.4401·1.4404 ⁵⁾ |
| | Bellows seal | | 1.4571 ⁴⁾ |
| Heating jacket | | 1.4404 | |

¹⁾ Special materials on request

²⁾ Seats and metal-seated plug also with Stellite® facing; for ≤DN 100 plug up to seat bore 38 made of solid Stellite® available.

³⁾ Other packings on request (see Information Sheet ► T 8000-1)

⁴⁾ Other materials on request

⁵⁾ Material double stamping

Table 3: K_{VS} coefficients

Terms for control valve sizing according to IEC 60534, Parts 2-1 and 2-2: $F_L = 0.95$, $X_T = 0.75$

Table 3.1: Overview with flow divider ST 1 (K_{VS-1}), ST 2 (K_{VS-2}) or ST 3 (K_{VS-3})

| K_{VS} | 0.1 0.16 0.25 | 0.4 | 0.63 | 1.0 | 1.6 | 2.5 | 4.0 | 6.3 | 10 | 16 | 25 | 40 | 60 | 80 | 63 | 100 | 160 | 200 | 260 | 250 | 360 | 630 | 1000 | 1500 | | |
|--------------|---------------------|-----|------|------|-----|-----|-----|-----|------|----|-----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|---|
| K_{VS-1} | - | | | 1.45 | 2.2 | 3.6 | 5.7 | 9 | 14.5 | 22 | 36 | 54 | 72 | 57 | 90 | 144 | 180 | 234 | 225 | 320 | 560 | 900 | 1350 | | | |
| K_{VS-2} | - | | | | | | | | 8 | 13 | 20 | 32 | 48 | 63 | 50 | 80 | 125 | 160 | 210 | 200 | 290 | 500 | 800 | 1200 | | |
| K_{VS-3} | - | | | | | | | | | | 7.5 | 12 | 20 | 30 | - | - | 47 | 75 | 120 | - | - | 190 | 270 | 480 | 750 | - |
| Seat Ø [mm] | 3 | 6 | | 12 | | | 24 | | 31 | 38 | 48 | 63 | 80 | 63 | 80 | 100 | 110 | 130 | 125 | 150 | 200 | 250 | 300 | | | |
| Travel in mm | 15 | | | | | | | | | | | | 30 | | | | | | 60 | | | | 120 | | | |

Table 3.2: Versions without flow divider · Areas highlighted in gray indicate versions also with pressure balancing

| K_{VS} | 0.1 0.16 0.25 | 0.4 | 0.63 | 1.0 | 1.6 | 2.5 | 4.0 | 6.3 | 10 | 16 | 25 | 40 | 60 | 80 | 63 | 100 | 160 | 200 | 260 | 250 | 360 | 630 | 1000 | 1500 |
|----------|---------------------|-----|------|-----|-----|-----|-----|-----|----|----|----|----|----|-----------------|----|-----------------|-----|-----|-----|-----|-----|-----|------|------|
| DN | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | |
| 20 | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | |
| 25 | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | |
| 32 | | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | |
| 40 | | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | | |
| 50 | | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | | | |
| 65 | | | | | | | | | | | • | • | • | | | | | | | | | | | |
| 80 | | | | | | | | | | | • | • | • | • ¹⁾ | | • ¹⁾ | | | | | | | | |
| 100 | | | | | | | | | | | | | | | • | • | • | | | | | | | |
| 125 | | | | | | | | | | | | | | | • | • | • | • | | | | | | |
| 150 | | | | | | | | | | | | | | | • | • | • | • | • | | | | | |
| 200 | | | | | | | | | | | | | | | | • | • | | | • | • | • | | |
| 250 | | | | | | | | | | | | | | | | • | • | | | • | • | • | • | |
| 300 | | | | | | | | | | | | | | | | | • | | | • | • | • | • | • |

¹⁾ With 19 mm overtravel (not with bellows seal)

Table 3.3: Versions with flow divider ST 1 (K_{VS-1}) · Areas highlighted in gray indicate versions also with pressure balancing

| K_{VS-1} | - | | | 1.45 | 2.2 | 3.6 | 5.7 | 9 | 14.5 | 22 | 36 | 54 | 72 | 57 | 90 | 144 | 180 | 234 | 225 | 320 | 560 | 900 | 1350 | |
|------------|---|--|--|------|-----|-----|-----|---|------|----|----|----|-----------------|----|----|-----|-----|-----|-----|-----|-----|-----|------|---|
| DN | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | • | • | • | | | | | | | | | | | | | | | | | | |
| 20 | | | | • | • | • | | | | | | | | | | | | | | | | | | |
| 25 | | | | • | • | • | | | | | | | | | | | | | | | | | | |
| 32 | | | | | | | • | • | • | | | | | | | | | | | | | | | |
| 40 | | | | | | | • | • | • | • | | | | | | | | | | | | | | |
| 50 | | | | | | | • | • | • | • | • | | | | | | | | | | | | | |
| 65 | | | | | | | | | | • | • | • | | | | | | | | | | | | |
| 80 | | | | | | | | | | • | • | • | • ¹⁾ | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | • | • | • | | | | | | | | |
| 125 | | | | | | | | | | | | | | • | • | • | • | | | | | | | |
| 150 | | | | | | | | | | | | | | • | • | • | • | • | | | | | | |
| 200 | | | | | | | | | | | | | | | • | • | | | • | • | • | | | |
| 250 | | | | | | | | | | | | | | | • | • | | | • | • | • | • | | |
| 300 | | | | | | | | | | | | | | | | • | | | • | • | • | • | • | • |

Table 3.1: Overview with flow divider ST 1 (K_{VS-1}), ST 2 (K_{VS-2}) or ST 3 (K_{VS-3})

| K_{VS} | 0.1 0.16 0.25 | 0.4 | 0.63 | 1.0 | 1.6 | 2.5 | 4.0 | 6.3 | 10 | 16 | 25 | 40 | 60 | 80 | 63 | 100 | 160 | 200 | 260 | 250 | 360 | 630 | 1000 | 1500 |
|----------------------------|---------------------|-----|------|-----|------|-----|-----|-----|-----|------|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|------|------|
| K_{VS-1} | - | | | | 1.45 | 2.2 | 3.6 | 5.7 | 9 | 14.5 | 22 | 36 | 54 | 72 | 57 | 90 | 144 | 180 | 234 | 225 | 320 | 560 | 900 | 1350 |
| K_{VS-2} | - | | | | | | | | 8 | 13 | 20 | 32 | 48 | 63 | 50 | 80 | 125 | 160 | 210 | 200 | 290 | 500 | 800 | 1200 |
| K_{VS-3} | - | | | | | | | | 7.5 | 12 | 20 | 30 | - | - | 47 | 75 | 120 | - | - | 190 | 270 | 480 | 750 | - |
| Seat \varnothing [mm] | 3 | 6 | | 12 | | | 24 | | 31 | 38 | 48 | 63 | 80 | 63 | 80 | 100 | 110 | 130 | 125 | 150 | 200 | 250 | 300 | |
| Travel in mm | 15 | | | | | | | | | | | | 30 | | | | 60 | | | 120 | | | | |

Table 3.4: Versions with flow divider ST 2 (K_{VS-2}) · Areas highlighted in gray indicate versions also with pressure balancing

| K_{VS-2} | - | | | | | | | | | | 8 | 13 | 20 | 32 | 48 | - | 50 | 80 | 125 | 160 | 210 | 200 | 290 | 500 | 800 | 1200 |
|------------|---|--|--|--|--|--|--|--|--|--|---|----|----|----|----|---|----|----|-----|-----|-----|-----|-----|-----|-----|------|
| DN | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | • | • | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | • | • | • | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | • | • | • | • | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | • | • | • | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | • | • | • | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | • | • | • | | | | | | | | | |
| 125 | | | | | | | | | | | | | | | | • | • | • | | | | | | | | |
| 150 | | | | | | | | | | | | | | | • | • | • | | • | | | | | | | |
| 200 | | | | | | | | | | | | | | | | • | • | | | • | | • | • | | | |
| 250 | | | | | | | | | | | | | | | | • | • | | | • | | • | • | | | |
| 300 | | | | | | | | | | | | | | | | | • | | | • | | • | • | • | • | • |

Table 3.5: Versions with flow divider ST 3 (K_{VS-3}) · Areas highlighted in gray indicate versions also with pressure balancing

| K_{VS-3} | - | | | | | | | | | | 7.5 | 12 | 20 | 30 | - | - | 47 | 75 | 120 | - | - | 190 | 270 | 480 | 750 | - | |
|------------|---|--|--|--|--|--|--|--|--|--|-----------------|----|----|----|---|---|----|----|-----|---|---|-----|-----|-----|-----|---|---|
| DN | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | • ¹⁾ | | | | | | | | | | | | | | | | |
| 65 | | | | | | | | | | | • | • | • | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | • | • | • | | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | | • | | | | | | | | | | | |
| 125 | | | | | | | | | | | | | | | | | • | | | | | | | | | | |
| 150 | | | | | | | | | | | | | | | | | • | • | • | | | | | | | | |
| 200 | | | | | | | | | | | | | | | | | | • | • | | | • | | • | | | |
| 250 | | | | | | | | | | | | | | | | | | • | • | • | | • | | • | • | | |
| 300 | | | | | | | | | | | | | | | | | | | • | | | • | | • | • | • | • |

¹⁾ Not with bellows seal or insulating section

Differential pressures: Permissible differential pressures are listed in Information Sheet ► T 8000-4 .

Dimensions and weights

Table 4: Dimensions and weights for standard version of Type 3241-1 and Type 3241-7 Valves with flanges

Table 4.1: Dimensions in mm for Type 3241 Valve up to DN 150 · Without actuator

| Valve | DN | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | |
|------------------|--|------------------|-----|-----|-----|------------------|-----|-----|------------------|-----|-----|-----|-----|
| Length L | mm | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | |
| H1 for actuator | ≤750v2 cm ² | 222 | | | 223 | | | 262 | | 354 | 363 | 390 | |
| | 1000 cm ² | - | | | | | | | | | 413 | 423 | 450 |
| | 1400-60 cm ² | - | | | | | | | | | | | |
| | 1400-120 cm ² 2800 cm ² | - | | | | | | | | | | | |
| H2 ¹⁾ | Cast steel | 44 ²⁾ | | | 72 | 72 ²⁾ | | 98 | 98 ²⁾ | 118 | 144 | 175 | |

¹⁾ The H2 dimension is the distance from the middle of the flow path to the bottom of the valve body.

²⁾ The H2 dimension in this valve is not the lowest point of the valve. This valve's lowest point is the bottom of the connecting flanges. The flange dimensions comply with the corresponding flange standard.

Table 4.2: Dimensions in mm for Type 3241 Valve in DN 200 and larger · Without actuator

| Valve | DN | 200 | 250 up to 200 mm seat bore | 250 seat bore 250 mm and larger | 300 |
|-------------------------------|--|-----|-------------------------------|---------------------------------------|-----|
| Length L | mm | 600 | 730 | 730 | 850 |
| H4 | mm | 390 | 451 | 451 | 652 |
| H8 ¹⁾ for actuator | 1000 cm ² | 418 | 418 | - | 503 |
| | 1400-60 cm ² | | | | |
| | 1400-120 cm ² 2800 cm ² | 503 | 503 | 650 | 650 |
| H2 | mm | 230 | 295 | 295 | 355 |

¹⁾ H8 increases by 170 mm for valves with K_{vS} 250, 360 or 630 and 60 mm rated travel operating with overtravel.

Table 4.3: Dimensions in mm for Types 3271 and 3277 Pneumatic Actuators

| Actuator area | cm ² | 120 | 175v2 | 240 | 350 | 355v2 | 700 | 750v2 | 1000 | 1400-60 | 1400-120 | 2800 |
|------------------|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------|----------------|
| Diaphragm ØD | mm | 168 | 215 | 240 | 280 | 280 | 390 | 394 | 462 | 530 | 534 | 770 |
| H ¹⁾ | mm | 69 | 78 | 62 | 82 | 121 | 199 | 236 | 403 | 337 | 598 | 713 |
| H3 ²⁾ | mm | 110 | 110 | 110 | 110 | 110 | 190 | 190 | 610 | 610 | 650 | 650 |
| H5 | Type 3277 mm | 88 | 101 | 101 | 101 | 101 | 101 | 101 | - | - | - | - |
| Thread | Type 3271 | M30x1.5 | | | | | | | M60x1.5 | | M100x2 | |
| | Type 3277 | M30x1.5 | | | | | | | - | - | - | - |
| α | Type 3271 | G 1/8 (1/8 NPT) | G 1/4 (1/4 NPT) | G 1/4 (1/4 NPT) | G 3/8 (3/8 NPT) | G 3/8 (3/8 NPT) | G 3/8 (3/8 NPT) | G 3/8 (3/8 NPT) | G 3/4 (3/4 NPT) | G 3/4 (3/4 NPT) | G 1 (1 NPT) | G 1 (1 NPT) |
| α2 | Type 3277 | - | G 3/8 | G 3/8 | G 3/8 | G 3/8 | G 3/8 | G 3/8 | - | - | - | - |

¹⁾ Height including lifting eyelet or female thread and eyebolt according to DIN 580. Height of the swivel hoist may differ. Actuators up to 355v2 cm² without lifting eyelet or female thread

²⁾ Minimum clearance required to remove the actuator

Table 4.4: Weights ¹⁾ in kg for Types 3241-1 and 3241-7

| Valve | DN | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 -60/ -120 | 300 |
|-------------------------------|----|----|-----|----|----|----|----|----|----|-----|-----|-----|-----|---------------------|-----|
| Weight without actuator in kg | | 6 | 7.5 | 8 | 12 | 14 | 18 | 29 | 34 | 52 | 81 | 108 | 430 | 858 | 920 |

| Actuator | cm ² | 120 | 175v2 | 240 | 350 | 355v2 | 700 | 750v2 | 1000 | 1400- 60 | 1400- 120 | 2800 |
|-----------|-----------------------------|-----|-------|-----|-----|-------|-----|-------|------|-------------|--------------|------|
| Type 3271 | Without hand-wheel | 2.5 | 6 | 5 | 8 | 15 | 22 | 36 | 80 | 70 | 175 | 450 |
| | Handwheel ≤80 mm travel | 4 | 10 | 9 | 13 | 20 | 27 | 41 | 180 | 175 | 300 | 575 |
| | Handwheel ≤160 mm travel | - | | | | | | | | | 425 | 700 |
| Type 3277 | Without hand-wheel | 3.2 | 10 | 9 | 12 | 19 | 26 | 40 | - | | | |
| | With hand-wheel | 4.5 | 14 | 13 | 17 | 24 | 31 | 45 | | | | |

¹⁾ The weights specified apply to a specific standard device configuration. Weights of other device configurations may differ depending on the version (material, trim or number of actuator springs etc.)

Table 5: Dimensions and weights ¹⁾ for Type 3241 Valve with insulating section or bellows seal**Table 5.1:** Dimensions in mm and weights in kg for Type 3241 Valve up to DN 150 · Without actuator

| Valve size | | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | | |
|-----------------|--|------------------------------------|------|----|----|-----|----|----|-----|-----|-----|-----|-----|-----|
| H4 for actuator | ≤750v2 cm ² | Insulating section or bellows seal | 409 | | | 410 | | | 451 | | 636 | 645 | 672 | |
| | | Long | 713 | | | 714 | | | 755 | | 877 | 886 | 913 | |
| | 1000 cm ² / 1400-60 cm ² | Insulating section or bellows seal | - | | | | | | | | | 695 | 705 | 732 |
| | | Long | - | | | | | | | | | 936 | 946 | 973 |
| | 1400-120 cm ² / 2800 cm ² | Insulating section or bellows seal | - | | | | | | | | | | | |
| | | Long | - | | | | | | | | | | | |
| Weight [kg] | With bellows seal | 9 | 10.5 | 11 | 18 | 20 | 24 | 37 | 42 | 70 | 106 | 138 | | |
| | With long bellows seal | 13 | 14.5 | 15 | 22 | 24 | 28 | 41 | 46 | 78 | 114 | 146 | | |

Table 5.2: Dimensions in mm and weights in kg for Type 3241 Valve in DN 200 and larger · Without actuator

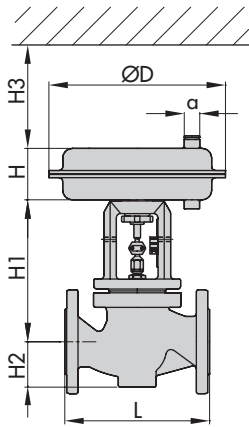
| Version with | | Insulating section | | | | Bellows seal | | | |
|---------------------|--|--------------------|----------------------------|-------------------|------|--------------|----------------------------|-------------------|------|
| Valve DN (travel) | mm | 200 | 250 up to 200 mm seat bore | 250 seat bore 250 | 300 | 200 | 250 up to 200 mm seat bore | 250 seat bore 250 | 300 |
| Height H4 | mm | 830 | 1065 | 1065 | 1150 | 1036 | 1492 | 1492 | 1520 |
| H8 for actuator | 1000 cm ² / 1400-60 cm ² | 418 | 418 | - | 503 | 418 | 418 | - | 503 |
| | 1400-120 cm ² / 2800 cm ² | 503 | 503 | 650 | 650 | 503 | 503 | 650 | 650 |
| Weight (approx. kg) | | 478 | 928 | | 963 | 520 | 975 | | 1010 |

¹⁾ The weights specified apply to a specific standard valve configuration. Weights of other valve configurations may differ depending on the version (material, trim etc.)

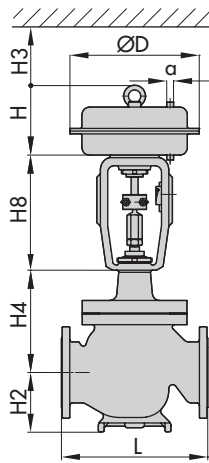
Table 6: Dimensions in mm for Type 3241 Valve with heating jacket

| Valve size | DN | 25 | 32 to 50 | 65 to 80 | 100 | 150 | 200 to 300 |
|------------|----|-----|----------|----------|-----|-----|------------|
| a | mm | 110 | 140 | 180 | 200 | 265 | On request |
| b | mm | 15 | 20 | 35 | 50 | 80 | |
| c | mm | 140 | 170 | 215 | 255 | 130 | |
| d | mm | 190 | 190 | 230 | 320 | 355 | |

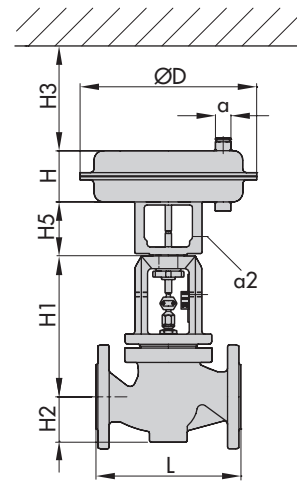
Dimensional drawings



Type 3241-1 · DN 15 to 150

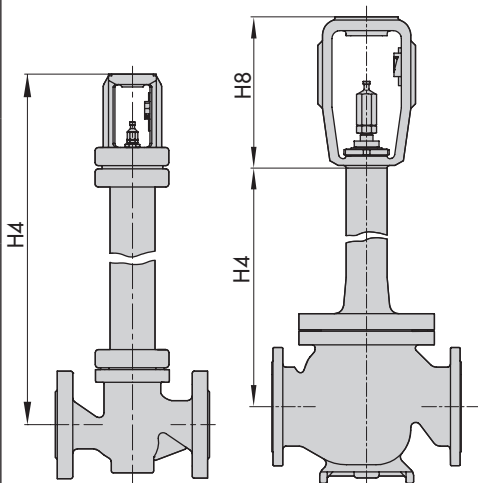


Type 3241-1 · DN 200 to 300



Type 3241-7 · DN 15 to 150

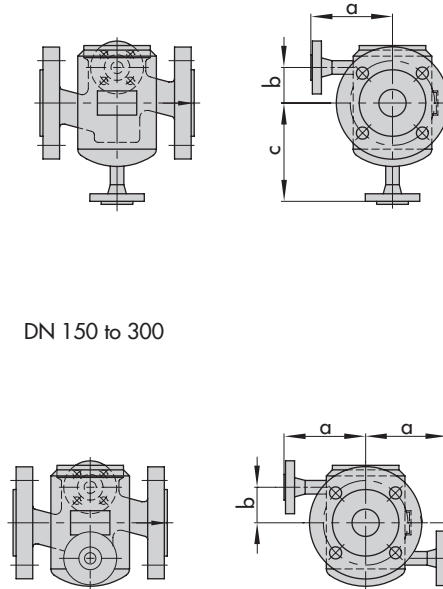
Type 3241 with insulating section or bellows seal



DN 15 to 150

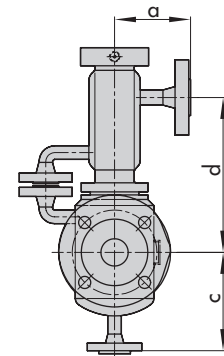
DN 200 to 300

Type 3241 with heating jacket DN 25 to 100



DN 150 to 300

Flanges, GOST 33259-2015



Bellows seal version with heating jacket

Ordering text

| | |
|--------------------|--|
| Globe valve | Type 3241 |
| Valve size | DN ... |
| Pressure rating | PN ... |
| Body material | Refer to Table 2 |
| Type of connection | Flanges |
| Seat-plug seal | Soft seal, metal seal or high-performance metal seal |
| Characteristic | Equal percentage or linear |
| Pneumatic actuator | Type 3271 or Type 3277 |
| Fail-safe position | Fail-close or fail-open |
| Process medium | Density and temperature |

| | |
|-------------------|--|
| Max. flow rate | in kg/h or m ³ /h |
| Pressure | p ₁ and p ₂ in bar (absolute pressure) |
| RFID tag | Yes/No |
| Valve accessories | Positioner/limit switch |

| | |
|---|------------------|
| Associated Information Sheet | ▶ T 8000-X |
| Associated Data Sheets for Pneumatic actuators | ▶ T 8310-1 to -3 |
| Associated Mounting and Operating Instructions | ▶ EB 8015 |
| Associated Safety Manual | ▶ SH 8015 |