# Pneumatic Control Valve Type 3246-1 and Type 3246-7

# Globe Valve Type 3246

**ANSI Class 600 with long insulating section and circulation inhibitor**
**ANSI version**

**Application**
Globe valve for cryogenic applications

| | |
|---|---|
| **Nominal size** | **NPS ½ to 8** |
| **Pressure rating** | **ANSI Class 600** |
| **Temperatures** | **–200 to 220 °C · –328 to 428 °F** |

Type 3246 Globe Valve with
- Type 3271 Pneumatic Actuator (Type 3246-1 Control Valve)
  or
- Type 3277 Pneumatic Actuator (Type 3246-7 Control Valve)

Valve body made of:
- Stainless carbon steel

Low-noise valve plug with:
- Metal sealing or
- Lapped-in metal

The modular design of the control valves allows them to be equipped with various accessories:
Positioners, solenoid valves and other accessories according to IEC 60534-6 and NAMUR recommendation. See Information Sheet T 8350 EN for details.

**Version**
Standard version with double PTFE packing for temperatures ranging from –200 to 220 °C (–328 to 428 °F) with long insulating section and circulation inhibitor,
nominal size NPS ½ to 8, ANSI Class 600, with flanges with Raised Face or welding ends

– **Type 3246-1** (Fig. 1) · With Type 3271 Actuator with 350 to 2800 cm² effective diaphragm area (refer to T 8310-1 EN and T 8310-2 EN)
– **Type 3246-7** · With Type 3277 Actuator with 350 to 700 cm² effective diaphragm area (refer to T 8310-1 EN)

**Other versions**
– **Type 3246-1/-7 Globe Valve** · With long insulating section and circulation inhibitor, NPS ½ to 10, ANSI Class 150 und 300 · Refer to Data Sheet T 8046-1 EN
– **Type 3246-1/-7 Three-way Valve** · With long insulating section and circulation inhibitor, NPS ½ to 6, ANSI Class 150 and 300 · Refer to Data Sheet T 8046-3 EN

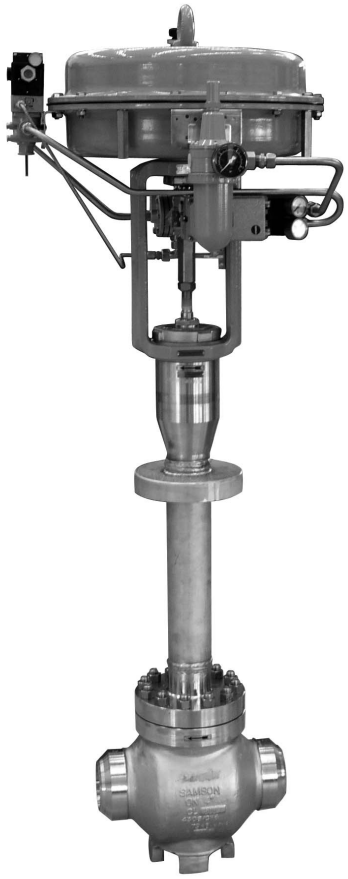

Fig. 1 · Type 3246-1 with circulation inhibitor, welding ends, long insulating section and cover plate with collar

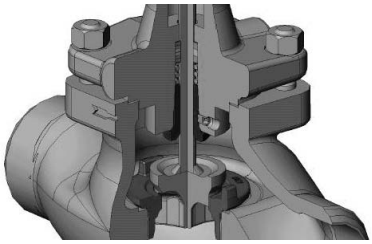

Fig. 2 · Type 3246 Valve with circulation inhibitor

| | |
|---|---|
| **Associated Information Sheets** | **T 8000-1/-2/-3 EN** |
| **Data Sheets for pneumatic actuators** | **T 8310-1/-2 EN** |
| **Mounting and Operating Instructions** | **EB 8051 EN** |

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**Data & Servicing Sheet T 8046-2 EN**

**Principle of operation**

The process medium flows through the valve in the flow-to-open direction. The position of the valve plug determines the cross-sectional area of flow between the seat and plug. The circulation inhibitor at the bottom minimizes the effects of the medium flow in the insulating section.

**Fail-safe positions**

Depending on how the compression springs are arranged in the actuator (see Data Sheets T 8310-1 EN and T 8310-2 EN for details), the control valve has two different fail-safe positions which become effective upon supply air failure:

**Actuator stem extends** (FA)
The actuator springs close the valve when the supply air fails.

**Actuator stem retracts** (FE)
The actuator springs open the valve when the supply air fails.

**Servicing instructions · For trained personnel only**

**Installation in the pipeline**

It is not necessary to remove the insulating section to weld the body in the pipeline.

Please note that the temperature at the point of connection from the valve body to the insulating section should not exceed 220 °C.

**Lubricant**

- Apply lubricant (order no. 8150-**0116**) to the plug stem, seat and plug.
- Prior to assembling the valve, apply lubricant (order no. 8150-**0116**) to the thread of the valve bonnet, yoke, stem connector nut and stem connector.

**Packing at the top**

The packing only needs to be serviced or replaced when leakage occurs.
Prior to installation, apply lubricant (8150-0116) to the plug stem.

**Double packing** (Fig. 3) with spring, self-adjusting
Apply lubricant (order no. 8150-0116) to all parts.
Tighten threaded bushing on assembly.

**Insulating section** (Fig. 4)

To perform maintenance work on the seat or plug, remove the complete insulating section.

**Circulation inhibitor** (Fig. 5)

A spring-loaded circulation inhibitor is used in place of a bottom metal guided bushing.

Prior to removing or assembling the plug, unscrew the hex socket headless screw at the side. The threaded bushing of the circulation inhibitor can only be removed after the headless screw has first been unscrewed.

On replacing the seals at the circulation inhibitor, insert the spring between the seals and threaded bushing.

**Mounting and Operating Instructions**

Refer to EB 8015 EN for more instructions on how to mount the actuator, installation, operation and maintenance (Type 3241 Globe Valve).

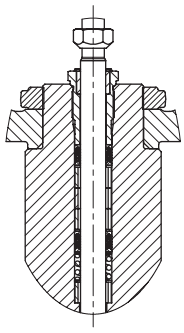

Fig. 3 · Double packing

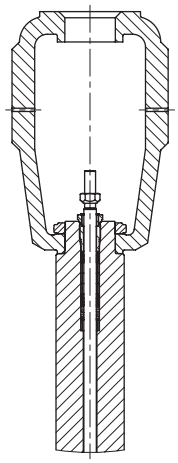

Fig. 4 · Yoke on the intermediate piece of the insulating section

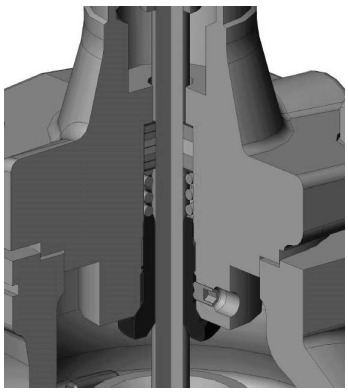

Fig. 5 · Circulation inhibitor and hex socket headless screw

**Table 1 · Technical data for Type 3246 with circulation inhibitor**

| | | |
|---|---|---|
| Material | | Stainless carbon steel<br>A 351 CF8 |
| Nominal size | | NPS ½ ... 8 |
| Pressure rating | | ANSI Class 600 |
| End connections | | ANSI flanges with Raised Face · Welding ends |
| Seat-plug sealing | | Metal sealing · Lapped-in metal · Stellite facing |
| Characteristic | | Equal percentage · Linear · Quick opening |
| Rangeability | | 50 : 1 |
| **Temperature ranges** in °C (°F) · Permissible operating pressures according to pressure-temperature diagrams (see Information Sheet T 8000-2 EN) | | |
| Valve with | PTFE packing | –200 … 220 °C (–328 … 428 °F) |
| **Leakage class** according to EN 1349 | | |
| Valve plug | Metal sealing | IV |
| | Lapped-in metal | IV-S2 · IV-S1: NPS 4 and larger |

**Table 2 · Materials**

| | | |
|---|---|---|
| Standard version<br>Body and flanges | | Stainless carbon steel<br>A 351 CF8 |
| Seat and plug [1] | Metal sealing | CrNi |
| Guided bushings | | CrNi |
| Packing | Self-adjusting | PTFE-carbon V-ring packing, spring 1.4310 |
| Circulation inhibitor | NPS ½ to 6 | PTFE-silk cord, spring-loaded, bushing 2.4360 (Monel) |
| | NPS 8 | PTFE-silk cord, spring-loaded, bushing 2.0402 (CuZn40Pb2) |
| Body gasket | | Kammprofile with graphite layer |
| Insulating section | | A351 CF8 / F304 |

[1] Seats and metal-seated plugs are also available with stellited facing or plug made of solid Stellite.

**Table 3 · $K_{VS}$ and $C_V$ coefficients**

**Table 3a · Overview**

| $C_V$ | | 0.12 | 0.2 | 0.3 | 0.5 | 0.75 | 1.2 | 2 | 3 | 5 | 7.5 | 12 | 20 | 30 | 47 | 75 | 120 | 190 | 290 | 420 | 735 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $K_{VS}$ | | 0.1 | 0.16 | 0.25 | 0.4 | 0.63 | 1.0 | 1.6 | 2.5 | 4.0 | 6.3 | 10 | 16 | 25 | 40 | 63 | 100 | 160 | 250 | 360 | 630 |
| Seat ∅ | mm | 6 | | | | | | 12 | | 24 | | | 31 | 38 | 50 | 63 | 80 | 100 | 125 | 150 | 200 |
| Rated travel | mm | 15 | | | | | | | | | | | | | 30 | | | | 60 | | |
| | in | 0.5″ | | | | | | | | | | | | | 1.18″ | | | | 2.36″ | | |

**Table 3b · Versions**

| $C_V$ | | 0.12 | 0.2 | 0.3 | 0.5 | 0.75 | 1.2 | 2 | 3 | 5 | 7.5 | 12 | 20 | 30 | 47 | 75 | 120 | 190 | 290 | 420 | 735 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NPS | DN | | | | | | | | | | | | | | | | | | | | |
| ½ | 15 | • | • | • | • | • | • | • | • | • | | | | | | | | | | | |
| ¾ | 20 | • | • | • | • | • | • | • | • | • | • | | | | | | | | | | |
| 1 | 25 | • | • | • | • | • | • | • | • | • | • | • | | | | | | | | | |
| 1½ | 40 | • | • | • | • | • | • | • | • | • | • | • | • | • | | | | | | | |
| 2 | 50 | | | | | | | | | • | • | • | • | • | • | | | | | | |
| 3 | 80 | | | | | | | | | • | • | • | • | • | • | • | • | | | | |
| 4 | 100 | | | | | | | | | | | | | • | • | • | • | • | | | |
| 6 | 150 | | | | | | | | | | | | | | | • | • | • | • | • | |
| 8 | 200 | | | | | | | | | | | | | | | | | • | • | • | • |

**Table 4a · Permissible differential pressures Δp, fail-safe position "Valve CLOSED" · Pressures in bar**

Bench ranges specified in shaded columns apply to standard cases, i.e. application at rated travel · Differential pressures specified in white columns apply to maximum pretensioned springs · Differential pressures in parentheses apply to half travel.

| **Fail-safe position "Valve CLOSED" (FA)** | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bench range (bar) for actuators ($cm^2$) | | 350 | 0.2...1.0 | 0.4...1.2 | 0.4...2.0 | 0.8...2.4 | 0.6...3.0 | 1.2...3.6 | 1.4...2.3 | 2.1...3.3 | – | – |
| | | 700 | | 0.4...1.2 (0.8...1.2) | | 0.8...2.4 (1.6...2.4) | | 1.2...3.6 (2.4...3.6) | 1.4...2.3 (1.85...2.3) | 2.1...3.3 (2.7...3.3) | 2.35...3.8 (3.05...3.8) | 2.6...4.3 (3.45...4.3) |
| | | 1400 | | | | | 0.5...2.5 | 1.0...3.0 (2.0...3.0) | 1.1...2.4 | 1.4...2.7 (2.05...2.7) | 1.3...2.8 | 1.7...3.2 (2.45...3.2) |
| | | 2800 | 0.4...1.2 (0.8...1.2) | 0.8...2.4 (1.6...2.4) | 1.0...3.0 (2.0...3.0) | 1.2...3.6 (2.4...3.6) | 0.9...1.6 | 1.1...1.8 (1.25...1.6) | 1.0...2.1 | 1.25...2.35 (1.55...2.1) | 1.1...2.6 | 1.5...3.0 (1.85...2.6) |
| Required supply pressure | | | Upper spring range value + 0.2 bar | | | | | | | | | |
| NPS | $C_V$ | Actuator $cm^2$ | Δp when $p_2$ = 0 bar | | | | | | | | | |
| ½ to 1½ | 0.12 to 3 | 350 | 46.1 | 100 | – | – | – | – | – | – | – | – |
| 2 | 5 to 12 | 350 | 8.7 | 22.4 | 22.4 | 50.5 | 36.6 | 78.4 | 92.3 | – | – | – |
| 1½ to 3 | 20 | 350 | 4.3 | 12.7 | 12.7 | 29.4 | 21 | 45.1 | 54.4 | 83.6 | – | – |
| 1½ to 4 | 30 | 350 | – | 8.1 | 8.1 | 19.2 | 13.6 | 30.3 | 35.8 | 55.3 | – | – |
| | | 700 | – | (41.4) | – | (85.8) | – | – | 99.7 | – | – | – |
| 2 to 4 | 47 | 700 | 4.3 | 10.7 | 10.7 | 23.6 | 17.1 | 36.4 | 42.8 | 65.3 | 73.3 | 81.3 |
| | | 1400 | – | (49.2) | – | (100) | – | – | – | – | – | – |
| 3 to 6 | 75 | 700 | – | 6.3 | 6.3 | 14.4 | 10.4 | 22.5 | 26.5 | 40.7 | 45.7 | 50.8 |
| | | 1400 | – | (30.6) | – | (62.9) | – | (79.1) | – | (81.1) | – | (97.3) |
| 3 to 6 | 120 | 700 | – | – | – | 8.7 | 6.2 | 13.7 | 16.3 | 25 | 28.2 | 31.3 |
| | | 1400 | – | (18.8) | – | (38.8) | – | (48.8) | – | (50.1) | – | (60.1) |
| 4 to 6 | 190 | 700 | – | – | – | 5.4 | – | 8.7 | 10.3 | 15.9 | 17.9 | 19.9 |
| | | 1400 | – | (11.9) | – | (24.7) | – | (31.1) | – | (31.9) | | (38.3) |
| 8 | 190 | 700 | – | – | – | 5.4 | – | 8.6 | 10.2 | 15.8 | 17.8 | 19.8 |
| | | 1400 | – | (11.8) | – | (24.6) | – | (31) | – | (31.8) | – | (38.2) |
| 6 | 290 | 1400 | – | – | – | 7.5 | 4.4 | 9.5 | 10.5 | 13.6 | 12.6 | 16.7 |
| | | 2800 | (15.7) | (32.1) | (40.3) | (48.5) | – | (24.9) | – | (31.1) | – | (37.2) |
| 8 | 290 | 1400 | – | – | – | 7.4 | 4.3 | 9.5 | 10.5 | 13.6 | 12.5 | 16.6 |
| | | 2800 | (15.6) | (32) | (40.3) | (48.5) | – | (24.9) | – | (31) | – | (37.2) |
| 6 | 420 | 1400 | – | – | – | 5.1 | – | 6.5 | 7.2 | 9.4 | 8.7 | 11.5 |
| | | 2800 | (10.8) | (22.2) | (27.9) | (33.6) | – | (17.2) | – | (21.5) | – | (25.8) |
| 8 | 420 | 1400 | – | – | – | 5.1 | – | 6.5 | 7.2 | 9.3 | 8.6 | 11.5 |
| | | 2800 | (10.7) | (22.2) | (27.9) | (33.6) | – | (17.2) | – | (21.5) | – | (25.7) |
| | 735 | 1400 | – | – | – | – | – | – | 4 | 5.2 | 4.7 | 6.4 |
| | | 2800 | (6) | (12.4) | (15.6) | (18.8) | – | (9.6) | – | (12) | – | (14.4) |

**Table 4b · Permissible differential pressures Δp, fail-safe position "Valve CLOSED" · Pressures in psi**

Bench ranges specified in shaded columns apply to standard cases, i.e. application at rated travel · Differential pressures specified in white columns apply to maximum pretensioned springs · Differential pressures in parentheses apply to half travel.

| **Fail-safe position "Valve CLOSED"(FA)** | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bench range (psi) for actuators ($cm^2$) | | 350 | 3...15 | 6...18 | 6...30 | 12...36 | 9...45 | 18...52 | 20...34 | 30...48 | – | – |
| | | 700 | | 6...18 (12...18) | | 12...36 (23...36) | | 18...52 (35...52) | 20...34 (27...34) | 30...48 (39...48) | 35...55 (44...55) | 36...62 (50...62) |
| | | 1400 | | | | | 7...36 | 15...45 (30...45) | 16...36 | 20...39 (30...39) | 19...41 | 25...46 (36...46) |
| | | 2800 | 6...18 (12...18) | 12...36 (23...36) | 15...45 (30...45) | 18...52 (35...52) | 13...23 | 16...26 (18...23) | 15...30 | 18...34 (22...30) | 17...36 | 22...45 (27...36) |
| Required supply pressure | | | Upper spring range value + 3 psi | | | | | | | | | |
| NPS | $C_V$ | Actuator $cm^2$ | Δp when $p_2$ = 0 psi | | | | | | | | | |
| ½ to 1½ | 0,12 to 3 | 350 | 668 | 1479 | – | – | – | – | – | – | – | – |
| 2 | 5 to 12 | 350 | 126 | 325 | 325 | 732 | 530 | 1137 | 1338 | – | – | – |
| 1½ to 3 | 20 | 350 | 62 | 184 | 184 | 426 | 304 | 654 | 789 | 1212 | – | – |
| 1½ to 4 | 30 | 350 | – | 117 | 117 | 278 | 197 | 439 | 519 | 801 | – | – |
| | | 700 | – | (600) | – | (1244) | – | – | (1445) | – | – | – |
| 2 to 4 | 47 | 700 | 62 | 155 | 155 | 342 | 248 | 527 | 620 | 947 | 1063 | 1178 |
| | | 1400 | – | (713) | – | (145) | – | – | – | – | – | – |
| 3 to 6 | 75 | 700 | – | 91 | 91 | 209 | 151 | 326 | 384 | 590 | 662 | 736 |
| | | 1400 | – | (443) | – | (912) | – | (1147) | – | (1176) | – | (1411) |
| 3 to 6 | 120 | 700 | – | – | – | 126 | 90 | 198 | 236 | 362 | 409 | 454 |
| | | 1400 | – | (272) | – | (562) | – | (707) | – | (726) | – | (871) |
| 4 to 6 | 190 | 700 | – | – | – | 78 | – | 126 | 149 | 230 | 259 | 288 |
| | | 1400 | – | (172) | – | (358) | – | (451) | – | (462) | – | (555) |
| 8 | 190 | 700 | – | – | – | 78 | – | 124 | 148 | 224 | 258 | 287 |
| | | 1400 | – | (171) | – | (356) | – | (449) | – | (461) | – | (554) |
| 6 | 290 | 1400 | – | – | – | 108 | 64 | 137 | 152 | 197 | 183 | 242 |
| | | 2800 | (227) | (465) | (584) | (703) | – | (361) | – | (451) | – | (539) |
| 8 | 290 | 1400 | – | – | – | 107 | 62 | 137 | 152 | 197 | 181 | 240 |
| | | 2800 | (226) | (464) | (584) | (703) | – | (361) | – | (449) | – | (539) |
| 6 | 420 | 1400 | – | – | – | 74 | – | 94 | 104 | 136 | 126 | 166 |
| | | 2800 | (156) | (322) | (404) | (487) | – | (249) | – | (312) | – | (374) |
| 8 | 420 | 1400 | – | – | – | 74 | – | 94 | 104 | 135 | 125 | 166 |
| | | 2800 | (155) | (322) | (404) | (487) | – | (249) | – | (312) | – | (372) |
| | 735 | 1400 | – | – | – | – | – | – | 58 | 75 | 68 | 93 |
| | | 2800 | (87) | (180) | (226) | (272) | – | (139) | – | (174) | – | (209) |

**Table 5 · Permissible differential pressures · Fail-safe position "Valve OPEN"**

| | | | Table 5a · Pressures in bar | | | | Table 5b · Pressures in psi | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bench range in (bar/psi) for actuators ($cm^2$) | | 350 | 0.2 ... 1.0 (0.2 ... 0.6) | | | | 3 ... 15 (3 ... 9) | | | |
| | | 700 | | | | | | | | |
| | | 1400 | | | | | | | | |
| | | 2800 | | | | | | | | |
| Required supply pressure | | | 1.4 | 2.4 | 4.0 | 6.0 | 20 | 36 | 60 | 90 |
| NPS | $C_V$ | Actuator $cm^2$ | $\Delta p$ when $p_2$ = 0 bar | | | | $\Delta p$ when $p_2$ = 0 psi | | | |
| ½ to 1½ | 0.12 to 3 | 350 | 100 | – | – | – | 1450 | – | – | – |
| | 5 to 12 | 350 | 22.4 | 92.1 | – | – | 325 | 1335 | – | – |
| | | 700 | (100) | – | – | – | (1450) | – | – | – |
| 2 | | 350 | 21.6 | 91.3 | – | – | 313 | 1324 | – | – |
| | | 700 | (100) | – | – | – | (1450) | – | – | – |
| 1½ to 3 | 20 | 350 | 12.4 | 54.2 | – | – | 180 | 786 | – | – |
| | | 700 | (62.5) | – | – | – | (906) | – | – | – |
| 1½ to 4 | 30 | 350 | 7.9 | 35.7 | 80.1 | – | 114 | 517 | 1161 | – |
| | | 700 | (41) | (97) | – | – | (594) | (1407) | – | – |
| 2 to 4 | 47 | 700 | 10.6 | 42.7 | 94.1 | – | 153 | 619 | 1364 | – |
| | | 1400 | (49) | – | – | – | (710) | – | – | – |
| 3 to 6 | 75 | 700 | 6.2 | 26.4 | 58.7 | 99.2 | 90 | 383 | 851 | 1438 |
| | | 1400 | (30.4) | (71) | – | – | (441) | (1029) | – | – |
| 3 to 6 | 120 | 700 | – | 16.2 | 36.2 | 61.3 | – | 235 | 525 | 889 |
| | | 1400 | (18.7) | (43.7) | (84) | – | (271) | (633) | (1218) | – |
| 4 6 | 190 | 700 | – | 10.2 | 23 | 39.1 | – | 148 | 333 | 567 |
| | | 1400 | (11.8) | (27.8) | (53.5) | (85) | (171) | (403) | (775) | (1232) |
| 8 | 190 | 700 | – | 10.0 | 22.9 | 38.9 | – | 145 | 332 | 564 |
| | | 1400 | (11.6) | (27.7) | (53.3) | (85) | (168) | (401) | (773) | (1232) |
| 6 | 290 | 1400 | – | 13.6 | 30 | 50.6 | – | 197 | 435 | 733 |
| | | 2800 | (15.6) | (36.2) | (69) | – | (226) | (525) | (1000) | – |
| 8 | 290 | 1400 | – | 13.5 | 29.9 | 50.4 | – | 195 | 433 | 731 |
| | | 2800 | (15.5) | (36.1) | (69) | – | (224) | (523) | (1000) | – |
| 6 | 420 | 1400 | – | 9.4 | 20.8 | 35 | – | 136 | 301 | 507 |
| | | 2800 | (10.8) | (25) | (47.8) | – | (156) | (362) | (693) | – |
| 8 | 420 | 1400 | – | 9.3 | 20.7 | 34.9 | – | 135 | 300 | 506 |
| | | 2800 | (10.7) | (25) | (47.8) | – | (156) | (362) | (693) | – |
| | 735 | 1400 | – | 5.1 | 11.5 | 19.5 | – | 74 | 166 | 282 |
| | | 2800 | (5.9) | (13.9) | (26.8) | (42.8) | (85) | (201) | (388) | (620) |

**Table 6 · Dimensions (inch, mm) and weights for Type 3246 Globe Valve with long insulating section and circulation inhibitor**

**Table 6a · Type 3246 with welding ends and cover plate with collar**

| Valve | | NPS | ½ | ¾ | 1 | 1 ½ | 2 | 3 | 4 | 6 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | mm | 15 | 20 | 25 | 40 | 50 | 80 | 100 | 150 | 200 |
| Length L | Class 600 | in | 7.99 | 8.11 | 8.27 | 9.88 | 11.26 | 13.27 | 15.51 | 20.00 | 24.02 |
| | | mm | 203 | 206 | 210 | 251 | 286 | 337 | 394 | 508 | 610 |
| H4 | Class 600 | in | 24 | | | | | 27 | | 33 | |
| | | mm | 610 | | | | | 686 | | 838 | |
| H5 | Class 600 | in | 31.89 | | | | 32.83 | 35.83 | 36.06 | 45.83 | 43.86 |
| | | mm | 809 | | | | 834 | 910 | 916 | 1164 | 1114 |
| H8 (actuator size) | Class 600 | in | 9.45 | | | | 15.55 | | | 18.90 | |
| | | mm | 240 (350 and 700 cm²) | | | | 395 (350 to 1400 cm²) | | | 480 (2800 cm²) | |
| Cover plate | ∅ d | in | 5.98 | | | | | | 7.99 | 10.0 | |
| | | mm | 152 | | | | | | 203 | 254 | |
| | h | in | 1.57 | | | | | | | | |
| | | mm | 40 | | | | | | | | |
| | | | | | | | | | | | |
| Weight, approx. | | lbs | 71 | 75 | 80 | 89 | 210 | 269 | 333 | 730 | On request |
| | | kg | 32 | 34 | 36 | 40 | 95 | 122 | 151 | 331 | |

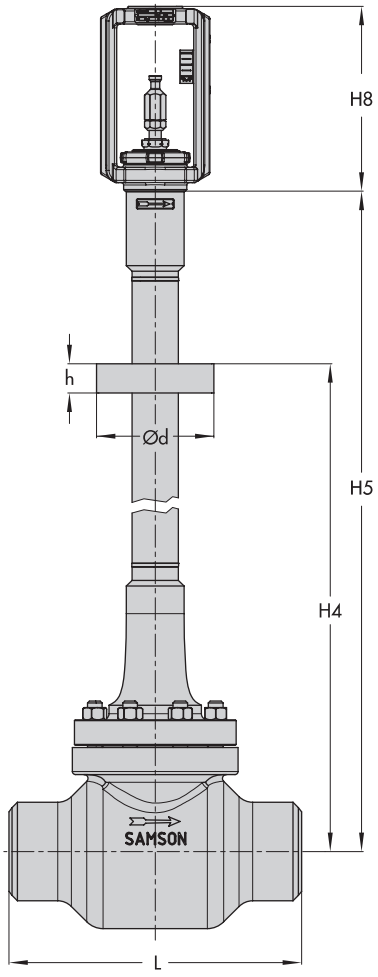


Fig. 6 · Dimensional drawing

**Selecting and sizing control valves**

1. Calculate the $C_V$ ($K_V$) coefficient according to IEC 60 534.
2. Select the valve size and $C_V$ ($K_{VS}$) from Tables 3 to 5.
3. Determine the permissible differential pressure $\Delta p$ according to Tables 4a to 4d.

**Ordering text**

| | |
|---|---|
| Nominal size | NPS .... |
| Pressure rating | ANSI Class 600 |
| End connections | Flanges or welding ends |
| Plug | Metal sealing or lapped-in metal |
| Characteristic | Equal percentage, linear or quick opening |
| Pneumatic actuator | Type 3271 or Type 3277 (refer to T 8310-1 EN or T 8310-2 EN) |
| Fail-safe position | Valve CLOSED or OPEN |
| Process medium and density in lb/cu.ft or kg/m$^3$ and temperature in °C (°F) | |
| Flow rate | lbs/h or kg/h or cu.ft/min or m$^3$/h in standard or operating state |
| Pressure | $p_1$ and $p_2$ in bar (absolute pressure) at minimum, standard and maximum flow rate |
| Accessories | Positioner and/or limit switch |

Specifications subject to change without notice.

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