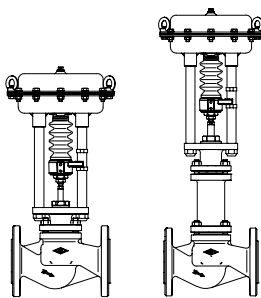


With pneumatic and electric actuators

ARI-STEVI® 440 / 441

**Pneumatic actuator
ARI-DP 32-34 Tri**

- Reversible pneumatic actuator
- Actuator with rolling diaphragm
- Air supply pressure max. 6 bar
- Stem protection by bellow
- Maintenance-free O-ring sealing
- Assembly of additional devices acc. to DIN IEC 60534-6



Page 4

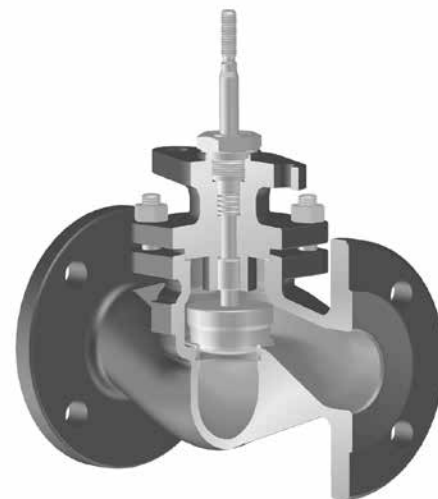
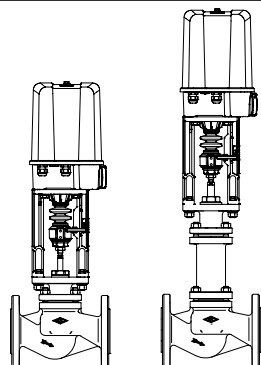


Fig. 440

ARI-STEVI® 440 / 441

**Electric actuator
ARI-PREMIO 2,2-25kN
ARI-PREMIO-Plus 2G 2,2-25kN**

- Enclosure IP 65
- 2 torque switches
- Handwheel
- Additional devices available, e.g. potentiometer



Page 12

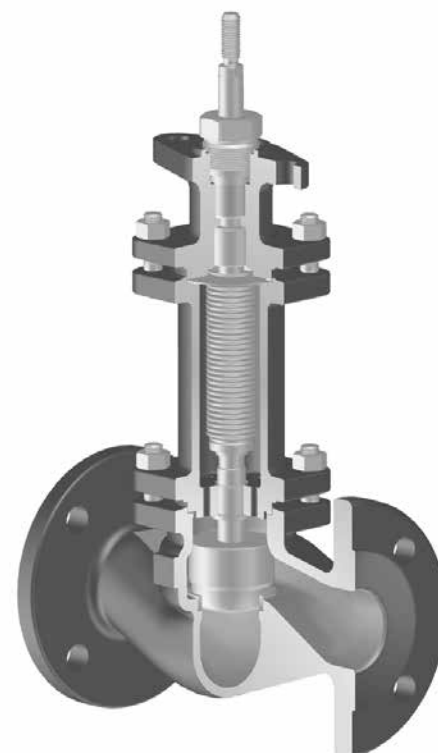
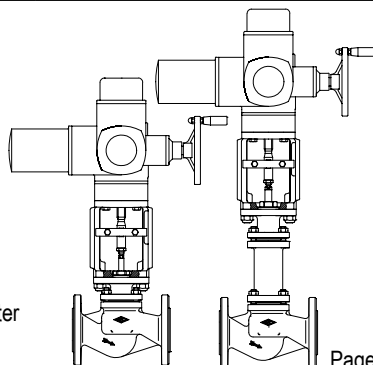


Fig. 441

ARI-STEVI® 440 / 441

**Electric actuator
AUMA SAR 07.2-10.2**

- Enclosure IP 67
- 2 torque switches
- 2 travel switches
- Handwheel
- Overheating protection for motor as standard
- Additional devices available, e.g. potentiometer
- Explosion proof version available

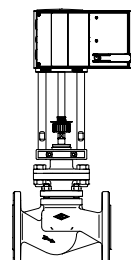


Page 14

ARI-STEVI® 440

**Electric actuator with fail-safe function
FR1.2**

- Operation mode for fail-safe function CLOSE
- Enclosure IP 66
- Operating time adjustable
- Additional devices available, e.g. potentiometer

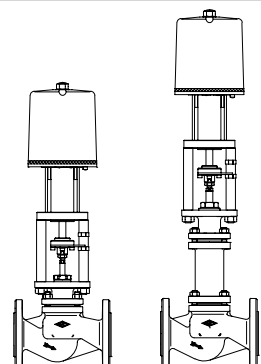


Page 16

ARI-STEVI® 440 / 441

**Electric actuator with fail-safe function
FR2.1-2.2**

- Fig. 440/441 with FR 2.1-2.2, actuator type approved acc. to DIN EN 14597
- Optional direction for safety reset, OPEN or CLOSE, as required
- Enclosure IP 54
- 1 travel switch for OPEN and CLOSE
- Additional devices available, e.g. potentiometer



Page 18

| Figure | Nominal pressure | Material | Nominal diameter | |
|--|------------------|-----------|------------------|--|
| 12.440 / 12.441 | PN16 | EN-JL1040 | DN15-250 | Information / restriction of technical rules need to be observed! ARI-Valves of EN-JL1040 are not allowed to be operated in systems acc. to TRD 110. A production permission acc. to TRB 801 No. 45 is available. (acc. to TRB 801 No. 45 EN-JL1040 is not allowed.) The engineer, designing a system or a plant, is responsible for the selection of the correct valve. Resistance and fitness must be verified, contact manufacturer for information (refer to Product overview and Resistance list). |
| 22.440 / 22.441 | PN16 | EN-JS1049 | DN15-250 | |
| 23.440 / 23.441 | PN25 | EN-JS1049 | DN15-150 | |
| 34.440 / 34.441 | PN25 | 1.0619+N | DN15-250 | |
| 35.440 / 35.441 | PN40 | 1.0619+N | DN15-250 | |
| 54.440 / 54.441 | PN25 | 1.4408 | DN15-250 | |
| 55.440 / 55.441 | PN40 | 1.4408 | DN15-150 | |
| Other materials and versions on request. | | | | |

| Stem sealing | | | | |
|--------------|---------------------------------------|------------------------------------|--|---|
| Fig. 440 | standard | | optional | |
| | DN15-150 | DN200-250 | DN15-250 | DN15-250 |
| | | | | |
| | I. PTFE-V-ring unit -10°C to 220°C | II. PTFE-packing -10°C to 250°C | I. EPDM-sealing -10°C to 150°C (allowed for water and steam up to 180°C) | II. PTFE-packing -10°C to 250°C II. Pure graphite-packing -10°C to 450°C |

| Fig. 441 | standard | | optional | |
|----------|--|--|--|--|
| | DN15-250 | | DN15-100 | DN125-150 |
| | | | | |
| | III. Stainless steel-bellow with pure graphite-packing -60°C to 450°C | | III. Stainless steel-bellow with V-ring unit -60°C to 220°C | III. Stainless steel bellows seal with EPDM-sealing -60°C to 150°C (allowed for water and steam up to 180°C) |

Pressure-temperature-ratings Intermediate values for max. permissible operational pressures can be determined by linear interpolation of the given temperature / pressure chart.

| acc. to DIN EN 1092-2 | | | -60°C to <-10°C ¹⁾ | -10°C to 120°C | 150°C | 200°C | 250°C | 300°C | 350°C | 400°C | 450°C |
|-----------------------|------|-------|-------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| EN-JL1040 | PN16 | (bar) | -- | 16 | 14,4 | 12,8 | 11,2 | 9,6 | -- | -- | -- |
| EN-JS1049 | PN16 | (bar) | on request | 16 | 15,5 | 14,7 | 13,9 | 12,8 | 11,2 | -- | -- |
| EN-JS1049 | PN25 | (bar) | on request | 25 | 24,3 | 23 | 21,8 | 20 | 17,5 | -- | -- |

| acc. to manufacturers standard | | | -60°C to <-10°C ¹⁾ | -10°C to 120°C | 150°C | 200°C | 250°C | 300°C | 350°C | 400°C | 450°C |
|--------------------------------|------|-------|-------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1.0619+N | PN25 | (bar) | 18,7 | 25 | 23,9 | 22 | 20 | 17,2 | 16 | 14,8 | 8,2 |
| 1.0619+N | PN40 | (bar) | 30 | 40 | 38,1 | 35 | 32 | 28 | 25,7 | 23,8 | 13,1 |

| acc. to DIN EN 1092-1 | | | -60°C to <-10°C ¹⁾ | -10°C to 100°C | 150°C | 200°C | 250°C | 300°C | 350°C | 400°C | 450°C |
|-----------------------|------|-------|-------------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1.4408 | PN40 | (bar) | 40 | 40 | 36,3 | 33,7 | 31,8 | 29,7 | 28,5 | 27,4 | -- |

¹⁾ Valve with extended bonnet, studs and nuts made of A4-70 (at temperatures below -10°C)

| Plug design standard | | | Guiding | Rangeability |
|--|--|--|------------------|--------------|
| DN15-150: Parabolic plug, metal seat | <ul style="list-style-type: none"> - Leakage class IV acc. to DIN EN 60534-4 - Flow characteristic: <ul style="list-style-type: none"> - equal percentage (g/p) (from Kvs 100 modified) - linear (lin) | | Stem | 50 : 1 |
| DN200-250: V-port plug, metal seat | <ul style="list-style-type: none"> - Leakage class IV acc. to DIN EN 60534-4 - from Kvs 63 - Flow characteristic: <ul style="list-style-type: none"> - equal percentage (g/p) (from Kvs 100 modified) - linear (lin) | | Stem / Seat ring | 30 : 1 |
| Plug design optional | | | Guiding | Rangeability |
| DN15-150: Parabolic plug, increased sealing tightness in the seat | <ul style="list-style-type: none"> - Leakage class IV-S1 acc. to DIN EN 60534-4 (special actuator forces necessary, refer to separate data sheet) - Flow characteristic: <ul style="list-style-type: none"> - equal percentage (g/p) (from Kvs 100 modified) - linear (lin) | | Stem | 50 : 1 |
| DN15-150: Parabolic plug with PTFE-Soft seal (max. 200°C) | <ul style="list-style-type: none"> - Leakage class VI acc. to DIN EN 60534-4 - Flow characteristic: <ul style="list-style-type: none"> - equal percentage (g/p) (from Kvs 100 modified) - linear (lin) | | Stem | 50 : 1 |
| DN25-150: Parabolic plug with Pressure balanced plug metal seat Piston seal: PTFE with stainless steel spring (max. 200°C) | <ul style="list-style-type: none"> - Leakage class IV acc. to DIN EN 60534-4 - from Kvs 6,3 - Flow characteristic: <ul style="list-style-type: none"> - equal percentage (g/p) (from Kvs 100 modified) - linear (lin) | | Stem | 50 : 1 |
| DN65-150: V-port plug metal seat | <ul style="list-style-type: none"> - Leakage class IV acc. to DIN EN 60534-4 - from Kvs 63 - Flow characteristic: <ul style="list-style-type: none"> - equal percentage (g/p) (from Kvs 100 modified) - linear (lin) | | Stem / Seat ring | 30 : 1 |

Control valve in straightway form with pneumatic actuator ARI-DP

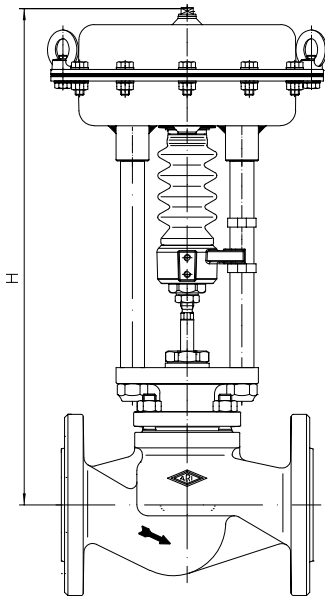


Fig. 440

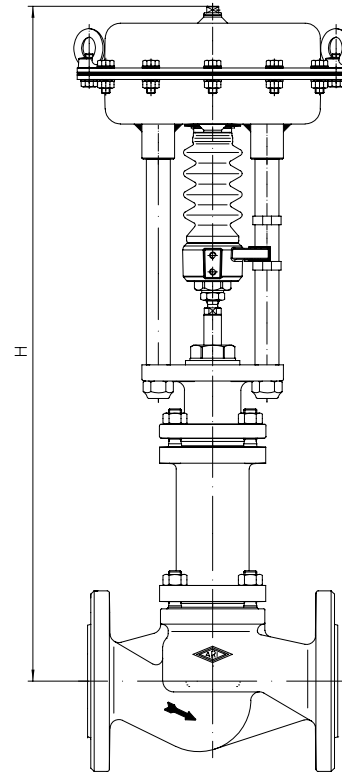
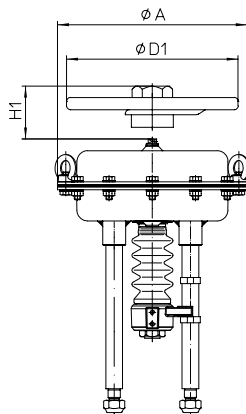


Fig. 441

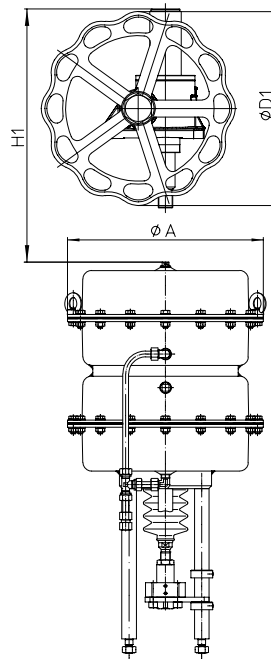
Heights and weights

| DN | | | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | | |
|----------|---------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|----|
| Fig. 440 | DP32 | H | (mm) | 442 | 442 | 450 | 450 | 457 | 463 | 465 | 480 | 499 | -- | -- | -- | -- | |
| | | PN16 | (kg) | 13 | 13 | 14 | 16 | 18 | 21 | 26 | 31 | 42 | -- | -- | -- | -- | -- |
| | | PN40 | (kg) | 13 | 14 | 15 | 17 | 19 | 22 | 29 | 35 | 48 | -- | -- | -- | -- | -- |
| | DP33 | H | (mm) | 497 | 497 | 505 | 505 | 512 | 518 | 531 | 546 | 565 | -- | -- | -- | -- | -- |
| | | PN16 | (kg) | 19 | 19 | 20 | 22 | 24 | 27 | 32 | 37 | 48 | -- | -- | -- | -- | -- |
| | | PN40 | (kg) | 19 | 20 | 21 | 23 | 25 | 28 | 35 | 41 | 54 | -- | -- | -- | -- | -- |
| | DP34 | H | (mm) | -- | -- | -- | -- | -- | -- | 666 | 681 | 680 | 719 | 779 | 841 | 901 | |
| | | PN16 | (kg) | -- | -- | -- | -- | -- | -- | 62 | 67 | 78 | 95 | 118 | 190 | 304 | |
| | | PN40 | (kg) | -- | -- | -- | -- | -- | -- | 65 | 71 | 84 | 101 | 122 | 222 | 336 | |
| | DP34T | H | (mm) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1091 | 1151 | |
| | | PN16 | (kg) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 261 | 375 | |
| | | PN40 | (kg) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 293 | 407 | |
| DP34Tri | H | (mm) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1313 | 1373 | | |
| | PN16 | (kg) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 295 | 409 | | |
| | PN40 | (kg) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 327 | 441 | | |
| Fig. 441 | DP32 | H | (mm) | 627 | 627 | 635 | 635 | 626 | 628 | 701 | 713 | 729 | -- | -- | -- | -- | |
| | | PN16 | (kg) | 17 | 17 | 18 | 21 | 23 | 26 | 29 | 40 | 55 | -- | -- | -- | -- | |
| | | PN40 | (kg) | 19 | 21 | 23 | 26 | 32 | 35 | 42 | 52 | 68 | -- | -- | -- | -- | |
| | DP33 | H | (mm) | 682 | 682 | 690 | 690 | 681 | 683 | 767 | 779 | 795 | -- | -- | -- | -- | |
| | | PN16 | (kg) | 23 | 23 | 24 | 27 | 29 | 32 | 35 | 46 | 61 | -- | -- | -- | -- | |
| | | PN40 | (kg) | 25 | 27 | 29 | 32 | 38 | 41 | 48 | 58 | 74 | -- | -- | -- | -- | |
| | DP34 | H | (mm) | -- | -- | -- | -- | -- | -- | 902 | 914 | 930 | 1074 | 1105 | 1363 | 1427 | |
| | | PN16 | (kg) | -- | -- | -- | -- | -- | -- | 65 | 76 | 91 | 111 | 132 | 212 | 326 | |
| | | PN40 | (kg) | -- | -- | -- | -- | -- | -- | 78 | 88 | 104 | 121 | 138 | 247 | 362 | |
| | DP34T | H | (mm) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1542 | 1601 | |
| | | PN16 | (kg) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 283 | 397 | |
| | | PN40 | (kg) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 318 | 433 | |
| | DP34Tri | H | (mm) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1764 | 1823 | |
| | | PN16 | (kg) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 317 | 431 | |
| | | PN40 | (kg) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 352 | 467 | |

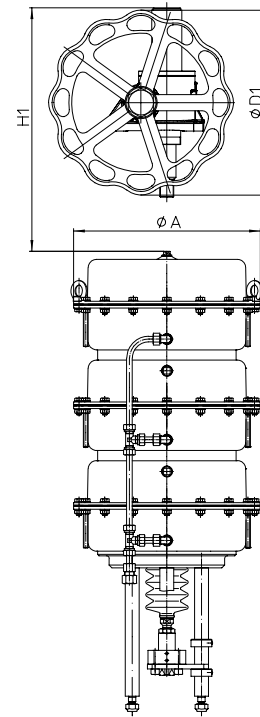
Other dimensions refer to pages 20-21.



DP32 / DP33 / DP34



DP34T





DP34Tri

| Actuator data | | DP32 | DP33 | DP34 | DP34T | DP34Tri | |
|--------------------------|--------------------|------|------|------|-------|---------|-----|
| Ø A | (mm) | 250 | 300 | 405 | | | |
| Effective diaphragm area | (cm ²) | 250 | 400 | 800 | 1600 | 2400 | |
| Top mounted handwheel | Ø D1 | (mm) | 225 | 300 | 400 | | |
| | H1 | (mm) | 270 | 284 | 442 | 635 | 635 |
| | Weight | (kg) | 5 | | 17 | 41 | |

Technical data for actuator refer to data sheet ARI-DP.

max. permissible closing pressures on flow-to-open P2 = 0.
Observe pressure-temperature-limits, refer to page 2.

| DN | | | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | | | |
|--|-----------------------------------|---------|---------------------|----------|----------------|-----------|----------|----------|----------|----------|-----------|------------|-----|-----|
| Parabolic plug | Kvs-value | | (m ³ /h) | 4 2,5 | 6,3 4 / 2,5 | 10 6,3 | 16 10 | 25 16 | 40 25 | 63 40 | 100 63 | 160 100 | | |
| | max. diff. pressure ¹⁾ | | (bar) | 40 | 40 | 40 | 40 | 30 | 20 | 8 | 4 | 1,5 | | |
| V-port plug | Kvs-value | | (m ³ /h) | -- | -- | -- | -- | -- | -- | 63 | 100 | 160 | | |
| | max. diff. pressure ¹⁾ | | (bar) | -- | -- | -- | -- | -- | -- | 30 | 25 | 25 | | |
| Seat-ø | | | (mm) | 21 | 21 | 27 | 31 | 41 | 51 | 66 | 81 | 101 | | |
| Travel | | | (mm) | 20 | | | | | | 30 | | | | |
| DP32 250 cm ² Spring closes on air failure  (extended through spring) | Spring range (bar) | 0,4-1,2 | 1,4 | I. | (bar) | 18,6 | 18,6 | 10,7 | 7,8 | 3,9 | 2,2 | | | |
| | | | | II. | (bar) | 15,4 | 15,4 | 8,7 | 6,2 | 3 | 1,6 | | | |
| | | | | III. | (bar) | 8,6 | 8,6 | 7,1 | 5 | 1,7 | | | | |
| | | 0,8-2,4 | 2,7 | I. | (bar) | 40 | 40 | 26,8 | 20,1 | 11 | 6,8 | 3,7 | 2,2 | 1,2 |
| | | | | II. | (bar) | 40 | 40 | 24,8 | 18,6 | 10,2 | 6,3 | 3,2 | 1,9 | 1 |
| | | | | III. | (bar) | 26,4 | 26,4 | 23,2 | 17,3 | 8,9 | 5,4 | 2,9 | 1,7 | |
| | 1,5-2,9 | 3,2 | I. | (bar) | | | 40 | 40 | 23,5 | 15 | | | | |
| | | | II. | (bar) | | | 40 | 40 | 22,7 | 14,4 | | | | |
| | | | III. | (bar) | 40 | 40 | 40 | 38,9 | 21,4 | 13,6 | | | | |
| | 2,0-3,8 | 4,1 | I. | (bar) | | | | | 32,5 | 20,8 | | | | |
| | | | II. | (bar) | | | | | 31,6 | 20,2 | | | | |
| | | | III. | (bar) | | | | 40 | 30,3 | 19,4 | | | | |

| DN | | | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | | |
|--|--|-----|---------------------|----------|----------------|-----------|----------|----------|----------|----------|-----------|------------|------|
| Parabolic plug | Kvs-value | | (m ³ /h) | 4 2,5 | 6,3 4 / 2,5 | 10 6,3 | 16 10 | 25 16 | 40 25 | 63 40 | 100 63 | 160 100 | |
| | max. diff. pressure ¹⁾ | | (bar) | 40 | 40 | 40 | 40 | 30 | 20 | 8 | 4 | 1,5 | |
| V-port plug | Kvs-value | | (m ³ /h) | -- | -- | -- | -- | -- | -- | 63 | 100 | 160 | |
| | max. diff. pressure ¹⁾ | | (bar) | -- | -- | -- | -- | -- | -- | 30 | 25 | 25 | |
| Seat-ø | | | (mm) | 21 | 21 | 27 | 31 | 41 | 51 | 66 | 81 | 101 | |
| Travel | | | (mm) | 20 | | | | | | 30 | | | |
| DP32 250 cm ² Spring opens on air failure  (retracted through spring) | Air supply pressure min. (bar) ²⁾ | 1,4 | I. | (bar) | 18,6 | 18,6 | 10,7 | 7,8 | 3,9 | 2,2 | | | |
| | | | II. | (bar) | 15,4 | 15,4 | 8,7 | 6,2 | 3 | 1,6 | | | |
| | | | III. | (bar) | 8,6 | 8,6 | 7,1 | 5 | 1,7 | | | | |
| | | 2 | I. | (bar) | 40 | 40 | 34,9 | 26,3 | 14,6 | 9,2 | 5 | 3,1 | 1,8 |
| | | | II. | (bar) | 40 | 40 | 32,9 | 24,8 | 13,7 | 8,6 | 4,6 | 2,8 | 1,6 |
| | | | III. | (bar) | 35,2 | 35,2 | 31,3 | 23,5 | 12,4 | 7,7 | 4,3 | 2,6 | 1,5 |
| | | 3 | I. | (bar) | | | 40 | 40 | 32,5 | 20,8 | 12 | 7,8 | 4,8 |
| | | | II. | (bar) | | | 40 | 40 | 31,6 | 20,2 | 11,6 | 7,5 | 4,6 |
| | | | III. | (bar) | 40 | 40 | 40 | 40 | 30,3 | 19,4 | 11,3 | 7,3 | 4,5 |
| | | 4 | I. | (bar) | | | | | 40 | 32,4 | 19 | 12,4 | 7,8 |
| | | | II. | (bar) | | | | | 40 | 31,8 | 18,6 | 12,1 | 7,6 |
| | | | III. | (bar) | | | | | 40 | 31 | 18,3 | 11,9 | 7,5 |
| | | 5 | I. | (bar) | | | | | | 40 | 26 | 17 | 10,8 |
| | | | II. | (bar) | | | | | | 40 | 25,6 | 16,7 | 10,6 |
| | | | III. | (bar) | | | | | | 40 | 25,3 | 16,5 | 10,5 |
| | | 6 | I. | (bar) | | | | | | | 33 | 21,7 | 13,8 |
| | | | II. | (bar) | | | | | | | 32,6 | 21,4 | 13,6 |
| | | | III. | (bar) | | | | | | | 32,3 | 21,2 | 13,5 |

I. Fig. 440: PTFE-V-ring unit / EPDM-sealing


II. Fig. 440: PTFE- / pure graphite-packing


III. Fig. 441: Bellows seal

¹⁾ max. differential pressure drop

²⁾ Air supply pressure max. to actuator: 6 bar Restriction: a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

max. permissible closing pressures on flow-to-open P2 = 0.
 Observe pressure-temperature-limits, refer to page 2.

| DN | | | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | | | | |
|--|-----------------------------------|--|----------|----------------|-----------|----------|----------|----------|----------|-----------|------------|--------|-----|--|--|
| Parabolic plug | Kvs-value | (m ³ /h) | 4 2,5 | 6,3 4 / 2,5 | 10 6,3 | 16 10 | 25 16 | 40 25 | 63 40 | 100 63 | 160 100 | | | | |
| | max. diff. pressure ¹⁾ | (bar) | 40 | 40 | 40 | 40 | 30 | 20 | 8 | 4 | 1,5 | | | | |
| V-port plug | Kvs-value | (m ³ /h) | -- | -- | -- | -- | -- | -- | 63 | 100 | 160 | | | | |
| | max. diff. pressure ¹⁾ | (bar) | -- | -- | -- | -- | -- | -- | 30 | 25 | 25 | | | | |
| Seat-ø | | (mm) | 21 | 21 | 27 | 31 | 41 | 51 | 66 | 81 | 101 | | | | |
| Travel | | (mm) | 20 | | | | | | 30 | | | | | | |
| DP33 400 cm² Spring closes on air failure  (extended through spring) | Spring range (bar) | Air supply pressure min. (bar) ²⁾ | 1,2 | I. | (bar) | 13,3 c) | 13,3 c) | 7,4 c) | 5,2 c) | 2,4 c) | 1,2 c) | | | | |
| | | | | II. | (bar) | 10,1 c) | 10,1 c) | 5,4 c) | 3,7 c) | 1,5 c) | | | | | |
| | | | | III. | (bar) | 5 a) | 5 a) | 3,8 a) | 2,5 a) | | | | | | |
| | | | 1,4 | I. | (bar) | 34,2 c) | 34,2 c) | 20,2 c) | 15,1 c) | 8,1 c) | 4,9 c) | 2,5 | 1,4 | | |
| | | | | II. | (bar) | 31 c) | 31 c) | 18,3 c) | 13,6 c) | 7,3 c) | 4,4 c) | 2,1 | 1,1 | | |
| | | | | III. | (bar) | 19,1 a) | 19,1 a) | 16,6 a) | 12,3 a) | 5,9 a) | 3,5 a) | 1,8 a) | | | |
| | 2,7 | I. | (bar) | 40 a) | 40 a) | 40 a) | 34,7 a) | 19,5 a) | 12,3 a) | 7 | 4,4 | 2,6 | | | |
| | | II. | (bar) | 40 a) | 40 a) | 40 a) | 33,2 a) | 18,6 a) | 11,8 a) | 6,5 | 4,1 | 2,4 | | | |
| | | III. | (bar) | 40 | 40 | 40 | 31,9 | 17,3 | 10,9 | 6,2 | 3,9 | 2,3 | | | |
| | 3,3 | I. | (bar) | | | | | | | 14,8 | 9,6 | 6 | | | |
| | | II. | (bar) | | | | | | | 14,3 | 9,3 | 5,8 | | | |
| | | III. | (bar) | | | | | | | 14 | 9,1 | 5,7 | | | |
| | 3,1 | I. | (bar) | | | | 40 a) | 40 a) | 29 a) | | | | | | |
| | | II. | (bar) | | | | 40 a) | 40 a) | 28,4 a) | | | | | | |
| | | III. | (bar) | | | | 40 | 40 | 27,6 | | | | | | |
| | 4,5 | I. | (bar) | | | | | | | 20,3 | 13,3 | 8,4 | | | |
| | | II. | (bar) | | | | | | | 19,9 | 12,9 | 8,2 | | | |
| | | III. | (bar) | | | | | | | 19,6 | 12,8 | 8,1 | | | |
| | 4,5 | I. | (bar) | | | | | 40 | | | | | | | |
| | | II. | (bar) | | | | | | 39,5 | | | | | | |
| | | III. | (bar) | | | | | | 38,6 | | | | | | |


| DN | | | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | | | | |
|--|--|---------------------|----------|----------------|-----------|----------|----------|----------|----------|-----------|------------|---------|--------|--------|--|
| Parabolic plug | Kvs-value | (m ³ /h) | 4 2,5 | 6,3 4 / 2,5 | 10 6,3 | 16 10 | 25 16 | 40 25 | 63 40 | 100 63 | 160 100 | | | | |
| | max. diff. pressure ¹⁾ | (bar) | 40 | 40 | 40 | 40 | 30 | 20 | 8 | 4 | 1,5 | | | | |
| V-port plug | Kvs-value | (m ³ /h) | -- | -- | -- | -- | -- | -- | 63 | 100 | 160 | | | | |
| | max. diff. pressure ¹⁾ | (bar) | -- | -- | -- | -- | -- | -- | 30 | 25 | 25 | | | | |
| Seat-ø | | (mm) | 21 | 21 | 27 | 31 | 41 | 51 | 66 | 81 | 101 | | | | |
| Travel | | (mm) | 20 | | | | | | 30 | | | | | | |
| DP33 400 cm² Spring opens on air failure  (retracted through spring) | Air supply pressure min. (bar) ²⁾ | 1,4 | I. | (bar) | 34,2 d) | 34,2 d) | 20,2 d) | 15,1 d) | 8,1 d) | 4,9 d) | 2,5 d) | 1,4 d) | | | |
| | | | II. | (bar) | 31 d) | 31 d) | 18,3 d) | 13,6 d) | 7,3 d) | 4,4 d) | 2,1 d) | 1,1 d) | | | |
| | | | III. | (bar) | 19,1 d) | 19,1 d) | 16,6 d) | 12,3 d) | 5,9 d) | 3,5 d) | 1,8 d) | | | | |
| | | | 2 | I. | (bar) | 40 d) | 40 d) | 40 d) | 40 d) | 25,2 d) | 16 d) | 9,2 d) | 5,9 d) | 3,6 d) | |
| | | | | II. | (bar) | 40 d) | 40 d) | 40 d) | 40 d) | 24,3 d) | 15,5 d) | 8,7 d) | 5,6 d) | 3,4 d) | |
| | | | | III. | (bar) | 40 d) | 40 d) | 40 d) | 40 d) | 23 d) | 14,6 d) | 8,4 d) | 5,4 d) | 3,3 d) | |
| | 3 | I. | (bar) | | | | | 40 d) | 34,6 d) | 20,3 d) | 13,3 d) | 8,4 d) | | | |
| | | II. | (bar) | | | | | 40 d) | 34 d) | 19,9 d) | 12,9 d) | 8,2 d) | | | |
| | | III. | (bar) | | | | | 40 d) | 33,1 d) | 19,6 d) | 12,8 d) | 8,1 d) | | | |
| | 4 | I. | (bar) | | | | | | 40 c) | 31,4 | 20,6 | 13,1 | | | |
| | | II. | (bar) | | | | | | 40 c) | 31 | 20,3 | 12,9 | | | |
| | | III. | (bar) | | | | | | 40 a) | 30,7 a) | 20,1 a) | 12,8 a) | | | |
| | 5 | I. | (bar) | | | | | | | 40 | 28 | 17,9 | | | |
| | | II. | (bar) | | | | | | | 40 | 27,7 | 17,7 | | | |
| | | III. | (bar) | | | | | | | 40 a) | 27,5 a) | 17,6 a) | | | |
| | 6 | I. | (bar) | | | | | | | | 35,4 | 22,7 | | | |
| | | II. | (bar) | | | | | | | | 35,1 | 22,5 | | | |


- I. Fig. 440: PTFE-V-ring unit / EPDM-sealing
 II. Fig. 440: PTFE- / pure graphite-packing
 III. Fig. 441: Bellows seal

¹⁾ max. differential pressure drop

²⁾ Air supply pressure max. to actuator: 6 bar Restriction: a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

max. permissible closing pressures on flow-to-open P2 = 0.
Observe pressure-temperature-limits, refer to page 2.

| DN | | | 65 | 80 | 100 | 125 | 150 | 200 | 250 | | | |
|--|---------------------|--|-----------|------------|------------|------------|------------|------------|-------------|--------|---|--|
| Parabolic plug | Kvs-value | | 63 | 100 | 160 | 250 | 400 | -- | -- | | | |
| | (m ³ /h) | | 40 | 63 | 100 | 160 | 250 | | | | | |
| max. diff. pressure ¹⁾ | | | (bar) | 8 | 4 | 1,5 | 1 | 1 | -- | | | |
| V-port plug | Kvs-value | | 63 | 100 | 160 | 250 | 400 | 630 | 1000 | | | |
| | (m ³ /h) | | 30 | 25 | 25 | 10 | 10 | 5 | 5 | | | |
| max. diff. pressure ¹⁾ | | | (bar) | 30 | 25 | 25 | 10 | 10 | 5 | | | |
| Seat-ø | | | (mm) | 66 | 81 | 101 | 126 | 151 | 201 | | | |
| Travel | | | (mm) | 30 | | | 50 | | 65 | | | |
| DP34 800 cm² Spring closes on air failure  (extended through spring) | Spring range (bar) | Air supply pressure min. (bar) ²⁾ | 1,2 | I. | (bar) | 2,5 b) | 1,5 b) | | | | | |
| | | | | II. | (bar) | 2,1 b) | 1,2 b) | | | | | |
| | | | | III. | (bar) | 1,8 e) | 1 e) | | | | | |
| | | | 0,4-1,2 | 1,4 | I. | (bar) | 7 b) | 4,4 b) | 2,7 b) | 1,6 | 1 | |
| | | | | | II. | (bar) | 6,6 b) | 4,1 b) | 2,5 b) | 1,4 | | |
| | | | | | III. | (bar) | 6,3 d) | 3,9 d) | 2,3 d) | 1,2 a) | | |
| | 0,8-2,4 | 2,7 | I. | (bar) | 16 | 10,4 | 6,5 | 4 | 2,7 | | | |
| | | | II. | (bar) | 15,5 | 10,1 | 6,3 | 3,9 | 2,6 | | | |
| | | | III. | (bar) | 15,2 b) | 9,9 b) | 6,2 b) | 3,7 | 2,5 | | | |
| | 1,0-2,0 | 2,4 | I. | (bar) | | | | | 1,9 | 1,1 | | |
| | | | II. | (bar) | | | | | 1,8 | 1,1 | | |
| | | | III. | (bar) | | | | | 1,7 | 1 | | |
| | 1,5-3,0 | 3,3 | I. | (bar) | | | 8,4 | 5,7 | | | | |
| | | | II. | (bar) | | | 8,2 | 5,6 | | | | |
| | | | III. | (bar) | | | 8,1 | 5,5 | | | | |
| | 2,0-4,0 | 4,5 | I. | (bar) | | | 11,5 | 7,9 | 4,3 | 2,7 | | |
| | | | II. | (bar) | | | 11,3 | 7,8 | 4,2 | 2,6 | | |
| | | | III. | (bar) | | | 11,2 | 7,7 | 4,2 | 2,6 | | |
| | 2,1-3,0 | 3,3 | I. | (bar) | 40 | 29,7 | 19 | | | | | |
| | | | II. | (bar) | 40 | 29,4 | 18,8 | | | | | |
| | | | III. | (bar) | 40 a) | 29,2 a) | 18,7 a) | | | | | |
| | | 4,5 | I. | (bar) | | 34,2 | 21,9 | | | | | |
| | | | II. | (bar) | | 33,9 | 21,7 | | | | | |
| | | | III. | (bar) | | | | | | | | |

| DN | | | 65 | 80 | 100 | 125 | 150 | 200 | 250 | | | | |
|--|---------------------|--|-----------|------------|------------|------------|------------|------------|-------------|--------|--------|--------|------|
| Parabolic plug | Kvs-value | | 63 | 100 | 160 | 250 | 400 | -- | -- | | | | |
| | (m ³ /h) | | 40 | 63 | 100 | 160 | 250 | | | | | | |
| max. diff. pressure ¹⁾ | | | (bar) | 8 | 4 | 1,5 | 1 | 1 | -- | | | | |
| V-port plug | Kvs-value | | 63 | 100 | 160 | 250 | 400 | 630 | 1000 | | | | |
| | (m ³ /h) | | 30 | 25 | 25 | 10 | 10 | 5 | 5 | | | | |
| max. diff. pressure ¹⁾ | | | (bar) | 30 | 25 | 25 | 10 | 10 | 5 | | | | |
| Seat-ø | | | (mm) | 66 | 81 | 101 | 126 | 151 | 201 | | | | |
| Travel | | | (mm) | 30 | | | 50 | | 65 | | | | |
| DP34 800 cm² Spring opens on air failure  (retracted through spring) | Spring range (bar) | Air supply pressure min. (bar) ²⁾ | 1,4 | I. | (bar) | 7 b) | 4,4 b) | 2,7 b) | 1,6 | 1 | | | |
| | | | | II. | (bar) | 6,6 b) | 4,1 b) | 2,5 b) | 1,4 | | | | |
| | | | | III. | (bar) | 6,3 e) | 3,9 e) | 2,3 e) | 1,2 a) | | | | |
| | | | 2 | 2 | I. | (bar) | 20,5 b) | 13,3 b) | 8,4 b) | 5,3 | 3,6 | 1,9 | 1,1 |
| | | | | | II. | (bar) | 20 b) | 13 b) | 8,2 b) | 5,1 | 3,5 | 1,8 | 1,1 |
| | | | | | III. | (bar) | 19,7 e) | 12,9 e) | 8,1 e) | 5 a) | 3,4 a) | 1,7 a) | 1 a) |
| | 3 | 3 | I. | (bar) | 40 b) | 28,2 b) | 18 b) | 11,5 | 7,9 | 4,3 | 2,7 | | |
| | | | II. | (bar) | 40 b) | 27,9 b) | 17,8 b) | 11,3 | 7,8 | 4,2 | 2,6 | | |
| | | | III. | (bar) | 40 e) | 27,7 e) | 17,7 e) | 11,2 a) | 7,7 a) | 4,2 a) | 2,6 a) | | |
| | 4 | 4 | I. | (bar) | | 40 b) | 27,6 b) | 17,7 | 12,2 | 6,8 | 4,3 | | |
| | | | II. | (bar) | | 40 b) | 27,5 b) | 17,5 | 12,1 | 6,7 | 4,2 | | |
| | | | III. | (bar) | | | | 17,4 a) | 12 a) | 6,6 a) | 4,2 a) | | |
| | 5 | 5 | I. | (bar) | | | | 23,9 | 16,6 | 9,2 | 5,8 | | |
| | | | II. | (bar) | | | | 23,7 | 16,5 | 9,1 | 5,8 | | |
| | | | III. | (bar) | | | | 23,6 a) | 16,3 a) | 9,1 a) | 5,8 a) | | |
| | 6 | 6 | I. | (bar) | | | | 30,9 | 20,9 | 11,7 | 7,4 | | |
| | | | II. | (bar) | | | | 29,9 | 20,8 | 11,6 | 7,4 | | |

I. Fig. 440: PTFE-V-ring unit (DN15-150) / EPDM-sealing

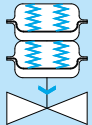
II. Fig. 440: PTFE- / pure graphite-packing

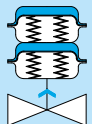
III. Fig. 441: Bellows seal

¹⁾ max. differential pressure drop

²⁾ Air supply pressure max. to actuator: 6 bar Restriction: a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

max. permissible closing pressures on flow-to-open P2 = 0.
 Observe pressure-temperature-limits, refer to page 2.

| DN | | | | | | 200 | 250 |
|---|-----------------------------------|---------|--|--------|---------------------|--------|------|
| V-port plug | Kvs-value | | | | (m ³ /h) | 630 | 1000 |
| | max. diff. pressure ¹⁾ | | | | (bar) | 5 | 5 |
| Seat-ø | | | | | (mm) | 201 | 251 |
| Travel | | | | | (mm) | 65 | |
| DP34T 1600 cm² Spring closes on air failure  (extended through spring) | Spring range (bar) | 0,4-1,2 | Air supply pressure min. (bar) ²⁾ | 1,7 | I. (bar) | 1,4 b) | |
| | | | | | II. (bar) | 1,3 b) | |
| | | | | | III. (bar) | 1,2 d) | |
| | 1,0-2,0 | 2,5 | I. (bar) | 4,3 a) | 2,7 a) | | |
| | | | II. (bar) | 4,2 a) | 2,6 a) | | |
| | | | III. (bar) | 4,2 c) | 2,6 c) | | |
| | 2,0-4,0 | 4,5 | I. (bar) | 9,2 | 5,8 | | |
| | | | II. (bar) | 9,1 | 5,8 | | |
| | | | III. (bar) | 9,1 | 5,8 | | |

| DN | | | | | | 200 | 250 |
|---|--|-----|-----------|------------|---------------------|--------|------|
| V-port plug | Kvs-value | | | | (m ³ /h) | 630 | 1000 |
| | max. diff. pressure ¹⁾ | | | | (bar) | 5 | 5 |
| Seat-ø | | | | | (mm) | 201 | 251 |
| Travel | | | | | (mm) | 65 | |
| DP34T 1600 cm² Spring opens on air failure  (retracted through spring) | Air supply pressure min. (bar) ²⁾ | 1,5 | | I. (bar) | 1,9 b) | 1,1 b) | |
| | | | | II. (bar) | 1,8 b) | 1,1 b) | |
| | | | | III. (bar) | 1,7 e) | 1 e) | |
| | | 2 | | I. (bar) | 4,3 b) | 2,7 b) | |
| | | | | II. (bar) | 4,2 b) | 2,6 b) | |
| | | | | III. (bar) | 4,2 e) | 2,6 e) | |
| | | 3 | | I. (bar) | 9,2 b) | 5,8 b) | |
| | | | | II. (bar) | 9,1 b) | 5,8 b) | |
| | | | | III. (bar) | 9,1 e) | 5,8 e) | |
| | 4 | | I. (bar) | 14,1 b) | 9 b) | | |
| | | | II. (bar) | 14 b) | 8,9 b) | | |
| | 4,5 | | I. (bar) | 16,6 b) | 10,6 b) | | |
| | | | II. (bar) | 16,5 b) | 10,5 b) | | |

- I. Fig. 440: EPDM-sealing
- II. Fig. 440: PTFE- / pure graphite-packing
- III. Fig. 441: Bellows seal

¹⁾ max. differential pressure drop

²⁾ Air supply pressure max. to actuator: 6 bar Restriction: a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar

max. permissible closing pressures on flow-to-open P2 = 0.
Observe pressure-temperature-limits, refer to page 2.

| DN | | | | | | 200 | 250 | |
|---|-----------------------------------|---------|--|-------|---------|--------|--------|--------|
| V-port plug | Kvs-value | | (m ³ /h) | | | 630 | 1000 | |
| | max. diff. pressure ¹⁾ | | (bar) | | | 5 | 5 | |
| Seat-ø | | | (mm) | | | 201 | 251 | |
| Travel | | | (mm) | | | 65 | | |
| <p>DP34Tri 2400 cm² Spring closes on air failure (extended through spring)</p> | Spring range (bar) | 0,4-1,2 | Air supply pressure min. (bar) ²⁾ | 1,7 | I. | (bar) | 2,4 d) | 1,4 d) |
| | | | | | II. | (bar) | 2,3 d) | 1,4 d) |
| | | | | | III. | (bar) | 2,2 f) | 1,4 f) |
| | | 1,0-2,0 | | 2,5 | I. | (bar) | 6,8 b) | 4,3 b) |
| | | | | | II. | (bar) | 6,7 b) | 4,2 b) |
| | | | | | III. | (bar) | 6,6 d) | 4,2 d) |
| | 1,5-3,0 | 3,5 | I. | (bar) | 10,4 a) | 6,6 a) | | |
| | | | II. | (bar) | 10,3 a) | 6,6 a) | | |
| | | | III. | (bar) | 10,3 b) | 6,5 b) | | |
| | 2,0-4,0 | 4,5 | I. | (bar) | 14,1 | 9 | | |
| | | | II. | (bar) | 14 | 8,9 | | |

- I. Fig. 440: EPDM-sealing
- II. Fig. 440: PTFE- / pure graphite-packing
- III. Fig. 441: Bellows seal

¹⁾ max. differential pressure drop

²⁾ Air supply pressure max. to actuator: 5 bar Restriction: a) 5 bar b) 4,5 bar c) 4 bar d) 3,5 bar e) 3 bar f) 2,5 bar

Control valve in straightway form with electric actuator ARI-PREMIO

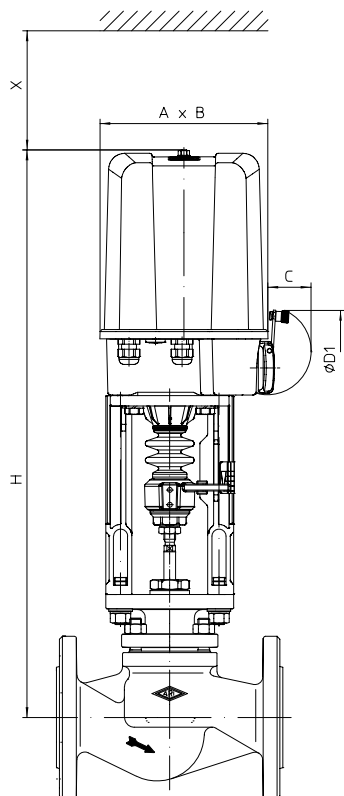


Fig. 440

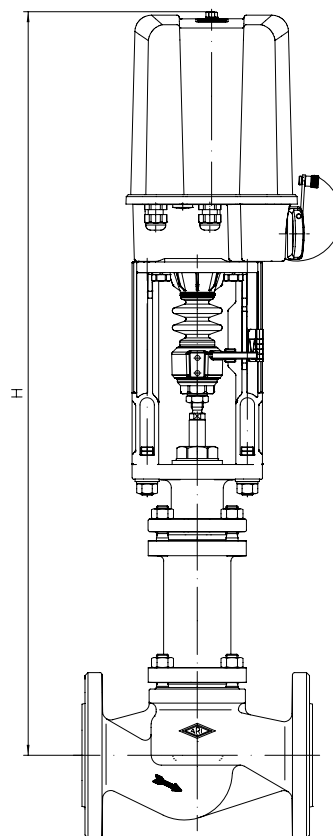


Fig. 441

| Actuator data | | 2,2 - 5 kN | 12 - 25 kN |
|---------------|------|------------|------------|
| A | (mm) | 171 | 210 |
| B | (mm) | 156 | 184 |
| C | (mm) | 50 | 90 |
| Ø D1 | (mm) | 90 | 130 |
| X | (mm) | 150 | 200 |

Technical data for actuator refer to data sheet ARI-PREMIO/PREMIO-Plus 2G

Heights and weights

| DN | | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | | |
|----------|--------|-------|------|------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| Fig. 440 | 2,2 kN | H | (mm) | 551 | 551 | 559 | 559 | 566 | 572 | 585 | 600 | 619 | -- | -- | -- | |
| | | PN16 | (kg) | 9 | 10 | 11 | 12 | 14 | 17 | 22 | 28 | 38 | -- | -- | -- | -- |
| | | PN40 | (kg) | 10 | 11 | 12 | 13 | 15 | 18 | 25 | 31 | 44 | -- | -- | -- | -- |
| | 5 kN | H | (mm) | 551 | 551 | 559 | 559 | 566 | 572 | 585 | 600 | 619 | 678 | 738 | -- | -- |
| | | PN16 | (kg) | -- | -- | 12 | 13 | 15 | 18 | 23 | 29 | 39 | 56 | 79 | -- | -- |
| | | PN40 | (kg) | -- | -- | 13 | 14 | 17 | 20 | 27 | 33 | 45 | 62 | 84 | -- | -- |
| | 12 kN | H | (mm) | -- | -- | -- | -- | 740 | 746 | 759 | 774 | 793 | 832 | 892 | 993 | 1053 |
| | | 15 kN | PN16 | (kg) | -- | -- | -- | -- | 19 | 22 | 27 | 33 | 43 | 60 | 83 | 155 |
| | | | PN40 | (kg) | -- | -- | -- | -- | 21 | 24 | 31 | 37 | 49 | 66 | 88 | 187 |
| | 25 kN | H | (mm) | -- | -- | -- | -- | -- | -- | -- | -- | -- | 832 | 892 | 949 | 1009 |
| | | PN16 | (kg) | -- | -- | -- | -- | -- | -- | -- | -- | -- | 61 | 84 | 156 | 271 |
| | | PN40 | (kg) | -- | -- | -- | -- | -- | -- | -- | -- | -- | 67 | 89 | 188 | 303 |
| Fig. 441 | 2,2 kN | H | (mm) | 736 | 736 | 744 | 744 | 733 | 737 | 821 | 833 | 849 | -- | -- | -- | |
| | | PN16 | (kg) | 13 | 13 | 14 | 17 | 19 | 22 | 25 | 36 | 51 | -- | -- | -- | |
| | | PN40 | (kg) | 15 | 17 | 19 | 22 | 28 | 31 | 38 | 48 | 64 | -- | -- | -- | |
| | 5 kN | H | | 736 | 736 | 744 | 744 | 735 | 737 | 821 | 833 | 849 | 1033 | 1064 | -- | -- |
| | | PN16 | (kg) | 15 | 15 | 16 | 18 | 21 | 23 | 26 | 37 | 53 | 72 | 94 | -- | -- |
| | | PN40 | (kg) | 17 | 18 | 21 | 24 | 30 | 32 | 39 | 49 | 66 | 83 | 99 | -- | -- |
| | 12 kN | H | (mm) | -- | -- | -- | -- | 909 | 911 | 995 | 1007 | 1023 | 1187 | 1218 | 1429 | 1493 |
| | | 15 kN | PN16 | (kg) | -- | -- | -- | -- | 25 | 27 | 30 | 41 | 57 | 76 | 89 | 179 |
| | | | PN40 | (kg) | -- | -- | -- | -- | 34 | 36 | 43 | 53 | 70 | 87 | 103 | 214 |
| | 25 kN | H | (mm) | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1187 | 1218 | 1429 | 1493 |
| | | PN16 | (kg) | -- | -- | -- | -- | -- | -- | -- | -- | -- | 77 | 90 | 180 | 294 |
| | | PN40 | (kg) | -- | -- | -- | -- | -- | -- | -- | -- | -- | 88 | 104 | 215 | 330 |

Other dimensions refer to pages 20-21.

max. permissible closing pressures on flow-to-open P2 = 0.
Observe pressure-temperature-limits, refer to page 2.

| DN | | | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | |
|-------------------------------|-----------------------------------|--------|----------|----------------|-----------|----------|----------|----------|----------|-----------|------------|------------|------------|------|------|-----|
| Parabolic plug | Kvs-value | (m³/h) | 4 2,5 | 6,3 4 / 2,5 | 10 6,3 | 16 10 | 25 16 | 40 25 | 63 40 | 100 63 | 160 100 | 250 160 | 400 250 | -- | -- | |
| | max. diff. pressure ¹⁾ | (bar) | 40 | 40 | 40 | 40 | 30 | 20 | 8 | 4 | 1,5 | 1 | 1 | -- | -- | |
| V-port plug | Kvs-value | (m³/h) | -- | -- | -- | -- | -- | -- | 63 | 100 | 160 | 250 | 400 | 630 | 1000 | |
| | max. diff. pressure ¹⁾ | (bar) | -- | -- | -- | -- | -- | -- | 30 | 25 | 25 | 10 | 10 | 5 | 5 | |
| Seat-Ø | | (mm) | 21 | 21 | 27 | 31 | 41 | 51 | 66 | 81 | 101 | 126 | 151 | 201 | 251 | |
| Travel | | (mm) | 20 | | | | | | 30 | | | 50 | | 65 | | |
| 2,2 kN | Closing pressure | I. | (bar) | 40 | 40 | 30,8 | 23,1 | 12,8 | 8 | 4,3 | 2,7 | 1,5 | | | | |
| | | II. | (bar) | 40 | 40 | 28,8 | 21,6 | 11,9 | 7,4 | 3,9 | 2,3 | 1,3 | | | | |
| | | III. | (bar) | 30,7 | 30,7 | 27,1 | 20,4 | 10,6 | 6,5 | 3,6 | 2,2 | 1,2 | | | | |
| | Operating time | (s) | 53 | | | | | | 79 | | | | | | | |
| Operating speed ²⁾ | (mm/s) | 0,38 | | | | | | | | | | | | | | |
| 5 kN | Closing pressure | I. | (bar) | | | 40 | 40 | 33,2 | 21,3 | 12,3 | 8 | 4,9 | 3 | 2 | | |
| | | II. | (bar) | | | 40 | 40 | 32,3 | 20,7 | 11,9 | 7,6 | 4,7 | 2,9 | 1,9 | | |
| | | III. | (bar) | 40 | 40 | 40 | 40 | 31 | 19,8 | 11,6 | 7,5 | 4,6 | 2,7 | 1,8 | | |
| | Operating time | (s) | 53 | | | | | | 79 | | | 132 | | | | |
| Operating speed | (mm/s) | 0,38 | | | | | | | | | | | | | | |
| 12 kN | Closing pressure | I. | (bar) | | | | | 40 | 40 | 32,3 | 21,2 | 13,5 | 8,5 | 5,9 | 3,2 | 2 |
| | | II. | (bar) | | | | | 40 | 40 | 31,8 | 20,9 | 13,3 | 8,4 | 5,8 | 3,1 | 1,9 |
| | | III. | (bar) | | | | | 40 | 40 | 31,6 | 20,7 | 13,2 | 8,2 | 5,6 | 3 | 1,9 |
| | Operating time | (s) | | | | | | 53 | 79 | | | 132 | | 171 | | |
| Operating speed | (mm/s) | 0,38 | | | | | | | | | | | | | | |
| 15 kN | Closing pressure | I. | (bar) | | | | | | | 40 | 26,9 | 17,2 | 10,9 | 7,5 | 4,1 | 2,6 |
| | | II. | (bar) | | | | | | | 40 | 26,6 | 17 | 10,8 | 7,4 | 4 | 2,5 |
| | | III. | (bar) | | | | | | | 40 | 26,4 | 16,9 | 10,6 | 7,3 | 4 | 2,5 |
| | Operating time | (s) | | | | | | | | 79 | | | 132 | | 171 | |
| Operating speed | (mm/s) | 0,38 | | | | | | | | | | | | | | |
| 25 kN | Closing pressure | I. | (bar) | | | | | | | | | | 18,7 | 13 | 7,2 | 4,6 |
| | | II. | (bar) | | | | | | | | | | 18,5 | 12,8 | 7,1 | 4,5 |
| | | III. | (bar) | | | | | | | | | | 18,5 | 12,8 | 7,1 | 4,5 |
| | Operating time | (s) | | | | | | | | | | | 132 | | 171 | |
| Operating speed | (mm/s) | 0,38 | | | | | | | | | | | | | | |

Further operating speeds: refer to data sheet ARI-PREMIO/PREMIO-Plus 2G

| | |
|---------------------|------------------------|
| Operating time [s]= | Travel [mm] |
| | Operating speed [mm/s] |

- I. Fig. 440: PTFE-V-ring unit (DN15-150) / EPDM-sealing
- II. Fig. 440: PTFE- / pure graphite-packing
- III. Fig. 441: Bellows seal

¹⁾ max. differential pressure drop

²⁾ Based on a frequency of 50Hz the control speed and power consumption of the synchronous motors PREMIO 2,2kN are 20% higher at frequency of 60 Hz.

Control valve in straightway form with electric actuator AUMA

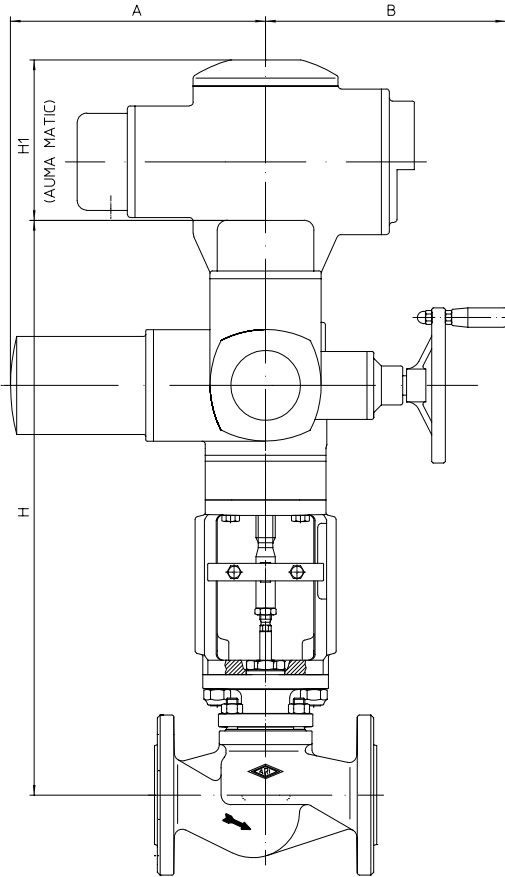


Fig. 440

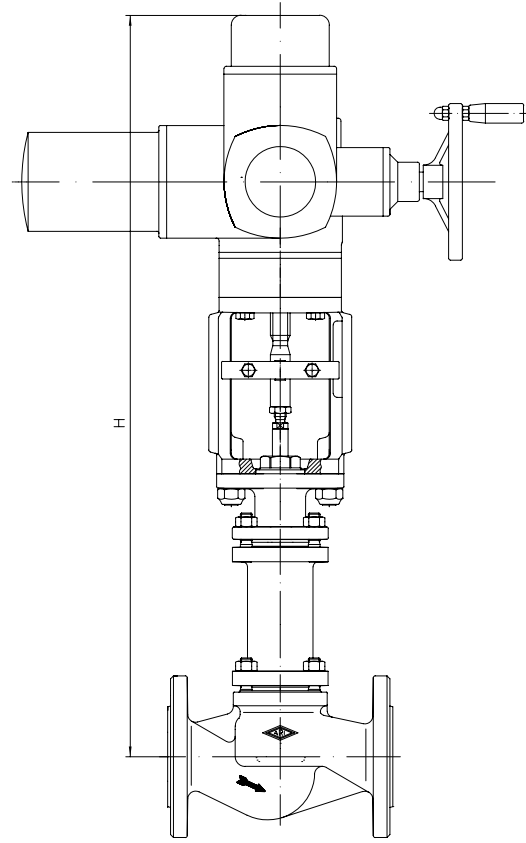


Fig. 441

| Actuator data | | SAR 07.2 | SAR 07.6 | SAR 10.2 |
|-----------------|------|----------|----------|----------|
| A | (mm) | 265 | | 283 |
| B | (mm) | 249 | | 254 |
| H1 (AUMA MATIC) | (mm) | 130 | | |

Supply voltage: 400V 50Hz 3~ (Other voltages on request)
 Technical data for actuator refer to price list.

Heights and weights

| DN | | | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | |
|----------|----------|------|------|-----|-----|-----|-----|-----|------|------|------|------|
| Fig. 440 | SAR 07.2 | H | (mm) | 636 | 642 | 655 | 670 | 689 | 728 | 788 | -- | -- |
| | | PN16 | (kg) | 36 | 39 | 44 | 50 | 60 | 77 | 100 | -- | -- |
| | | PN40 | (kg) | 37 | 40 | 47 | 53 | 66 | 83 | 105 | -- | -- |
| | SAR 07.6 | H | (mm) | -- | 642 | 655 | 670 | 689 | 728 | 788 | 866 | 926 |
| | | PN16 | (kg) | -- | 40 | 46 | 51 | 61 | 79 | 102 | 178 | 292 |
| | | PN40 | (kg) | -- | 42 | 49 | 55 | 68 | 85 | 106 | 210 | 324 |
| | SAR 10.2 | H | (mm) | -- | -- | 657 | 672 | 691 | 730 | 790 | 868 | 928 |
| | | PN16 | (kg) | -- | -- | 48 | 54 | 64 | 81 | 104 | 180 | 295 |
| | | PN40 | (kg) | -- | -- | 51 | 57 | 70 | 87 | 109 | 212 | 327 |
| Fig. 441 | SAR 07.2 | H | (mm) | 805 | 807 | 891 | 903 | 919 | 1083 | 1114 | -- | -- |
| | | PN16 | (kg) | 41 | 44 | 47 | 58 | 73 | 93 | 114 | -- | -- |
| | | PN40 | (kg) | 50 | 53 | 60 | 70 | 86 | 104 | 120 | -- | -- |
| | SAR 07.6 | H | (mm) | -- | 807 | 891 | 903 | 919 | 1083 | 1114 | 1310 | 1374 |
| | | PN16 | (kg) | -- | 45 | 48 | 59 | 75 | 95 | 116 | 201 | 315 |
| | | PN40 | (kg) | -- | 54 | 61 | 71 | 88 | 105 | 122 | 236 | 351 |
| | SAR 10.2 | H | (mm) | -- | -- | -- | -- | -- | 1085 | 1116 | 1312 | 1376 |
| | | PN16 | (kg) | -- | -- | -- | -- | -- | 97 | 118 | 203 | 318 |
| | | PN40 | (kg) | -- | -- | -- | -- | -- | 108 | 124 | 239 | 353 |

For version with AUMA SAR Ex other heights.

Other dimensions refer to pages 20-21.

max. permissible closing pressures on flow-to-open P2 = 0.
 Observe pressure-temperature-limits, refer to page 2.

Fig. 440

| DN | | | | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 |
|--|-----------------------------------|---------------------------|--------------|----------|----------|-----------|------------|------------|------------|------|------|-----|
| Parabolic plug | Kvs-value | (m ³ /h) | 25 16 | 40 25 | 63 40 | 100 63 | 160 100 | 250 160 | 400 250 | -- | -- | |
| | max. diff. pressure ¹⁾ | (bar) | 30 | 20 | 8 | 4 | 1,5 | 1 | 1 | -- | -- | |
| V-port plug | Kvs-value | (m ³ /h) | -- | -- | 63 | 100 | 160 | 250 | 400 | 630 | 1000 | |
| | max. diff. pressure ¹⁾ | (bar) | -- | -- | 30 | 25 | 25 | 10 | 10 | 5 | 5 | |
| Seat-Ø | | | (mm) | 41 | 51 | 66 | 81 | 101 | 126 | 151 | 201 | 251 |
| Travel | | | (mm) | 20 | | 30 | | 50 | | 65 | | |
| SAR 07.2 Output drive Form A TR 20 x 4 - LH | Closing pressure | shut off | I./II. (bar) | 40 | 40 | 40 | 29,7 | 19 | 12,1 | 8,3 | | |
| | | controlling ²⁾ | I./II. (bar) | 40 | 36,5 | 21,4 | 14 | 8,8 | 5,5 | 3,7 | | |
| | Torque | | (Nm) | 15 | 20 | 30 | 30 | 30 | 30 | 30 | | |
| | Operating time (50 Hz) | | (s) | 54 | | 56 | | 94 | | | | |
| Output drive | | (rpm) | 5,6 | | 8 | | 8 | | | | | |
| SAR 07.6 Output drive Form A TR 26 x 5 - LH | Closing pressure | shut off | I./II. (bar) | | 40 | 40 | 40 | 26,9 | 17,2 | 11,9 | 6,5 | 4,1 |
| | | controlling ²⁾ | I./II. (bar) | | 40 | 30,5 | 20 | 12,8 | 8 | 5,5 | 2,9 | 1,8 |
| | Torque | | (Nm) | | 30 | 40 | 60 | 60 | 60 | 60 | 60 | 60 |
| | Operating time (50 Hz) | | (s) | | 43 | 64 | | 55 | | 71 | | |
| Output drive | | (rpm) | | 5,6 | 5,6 | | 11 | | 11 | | | |
| SAR 10.2 Output drive Form A TR 26 x 5 - LH | Closing pressure | shut off | I./II. (bar) | | | 40 | 40 | 31,6 | 29,3 | 20,3 | 13,7 | 8,7 |
| | | controlling ²⁾ | I./II. (bar) | | | 40 | 40 | 26,9 | 17,2 | 11,9 | 6,5 | 4,1 |
| | Torque | | (Nm) | | | 60 | 60 | 70 | 100 | 100 | 120 | 120 |
| | Operating time (50 Hz) | | (s) | | | 64 | | 55 | | 71 | | |
| Output drive | | (rpm) | | | 5,6 | | 11 | | 11 | | | |

Fig. 441

| DN | | | | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 |
|--|-----------------------------------|---------------------------|------------|----------|----------|-----------|------------|------------|------------|------|------|-----|
| Parabolic plug | Kvs-value | (m ³ /h) | 25 16 | 40 25 | 63 40 | 100 63 | 160 100 | 250 160 | 400 250 | -- | -- | |
| | max. diff. pressure ¹⁾ | (bar) | 30 | 20 | 8 | 4 | 1,5 | 1 | 1 | -- | -- | |
| V-port plug | Kvs-value | (m ³ /h) | -- | -- | 63 | 100 | 160 | 250 | 400 | 630 | 1000 | |
| | max. diff. pressure ¹⁾ | (bar) | -- | -- | 30 | 25 | 25 | 10 | 10 | 5 | 5 | |
| Seat-Ø | | | (mm) | 41 | 51 | 66 | 81 | 101 | 126 | 151 | 201 | 251 |
| Travel | | | (mm) | 20 | | 30 | | 50 | | 65 | | |
| SAR 07.2 Output drive Form A TR 20 x 4 - LH | Closing pressure | shut off | III. (bar) | 40 | 40 | 40 | 29,5 | 18,9 | 11,9 | 8,2 | | |
| | | controlling ²⁾ | III. (bar) | 40 | 35,7 | 21,1 | 13,8 | 8,7 | 5,3 | 3,6 | | |
| | Torque | | (Nm) | 15 | 20 | 30 | 30 | 30 | 30 | 30 | | |
| | Operating time (50 Hz) | | (s) | 54 | | 56 | | 94 | | | | |
| Output drive | | (rpm) | 5,6 | | 8 | | 8 | | | | | |
| SAR 07.6 Output drive Form A TR 26 x 5 - LH | Closing pressure | shut off | III. (bar) | | 40 | 40 | 30,8 | 19,7 | 17 | 11,7 | 6,5 | 4,1 |
| | | controlling ²⁾ | III. (bar) | | 40 | 30,2 | 19,8 | 12,6 | 7,9 | 5,4 | 2,9 | 1,8 |
| | Torque | | (Nm) | | 30 | 40 | 45 | 45 | 60 | 60 | 60 | 60 |
| | Operating time (50 Hz) | | (s) | | 43 | 64 | | 55 | | 71 | | |
| Output drive | | (rpm) | | 5,6 | 5,6 | | 11 | | 11 | | | |
| SAR 10.2 Output drive Form A TR 26 x 5 - LH | Closing pressure | shut off | III. (bar) | | | | | | 26,1 | 18,1 | 10,1 | 6,4 |
| | | controlling ²⁾ | III. (bar) | | | | | | 17 | 11,7 | 6,5 | 4,1 |
| | Torque | | (Nm) | | | | | | 90 | 90 | 90 | 90 |
| | Operating time (50 Hz) | | (s) | | | | | | 55 | | 71 | |
| Output drive | | (rpm) | | | | | | 11 | | 11 | | |

I. Fig. 440: PTFE-V-ring unit (DN15-150) / EPDM-sealing

II. Fig. 440: PTFE- / pure graphite-packing

III. Fig. 441: Bellows seal

¹⁾ max. differential pressure drop

²⁾ Restrictions through max. permissible torque of the actuator at controlling operation.

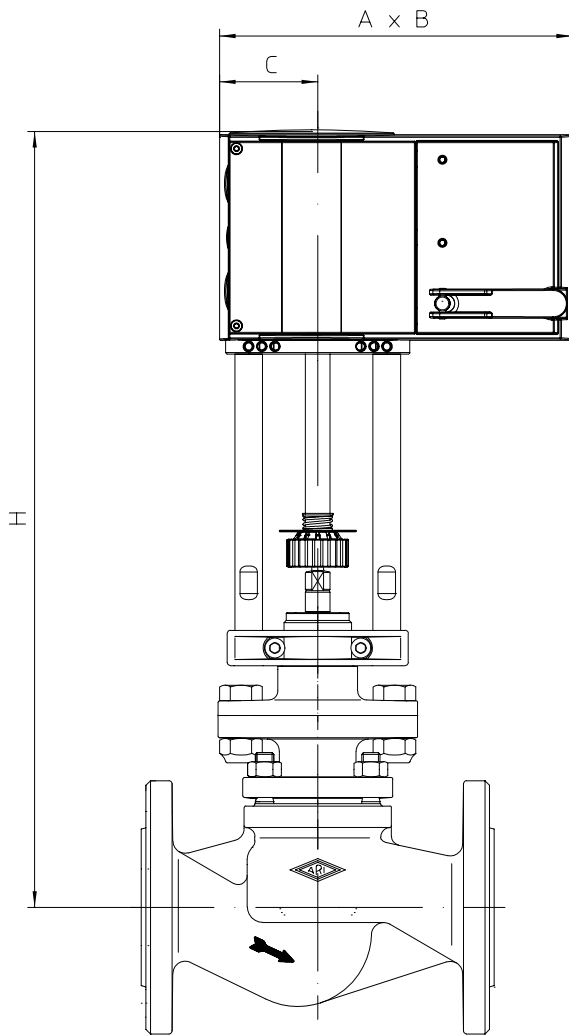
Control valve in straightway form with electric actuator FR 1.2 with fail-safe function


Fig. 440

| Actuator data | | FR 1.2 |
|---|------|--------|
| A | (mm) | 230 |
| B | (mm) | 120 |
| C | (mm) | 64 |
| Supply voltage: 24V 50/60Hz 1~, 24VDC, 230V 50/60Hz 1~ Technical data for actuator refer to data sheet FR1.2. | | |

Heights and weights

| DN | | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | | | |
|----------|--------|----------------------------------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Fig. 440 | FR 1.2 | H | (mm) | 502 | 502 | 510 | 510 | 517 | 523 | 536 | 551 | 570 | |
| | | Parabolic plug | PN16 | (kg) | 10 | 10 | 11 | 13 | 15 | 18 | 23 | 28 | 39 |
| | | | PN40 | (kg) | 10 | 11 | 12 | 14 | 16 | 19 | 26 | 32 | 45 |
| | | Parabolic pressure balanced plug | PN16 | (kg) | -- | -- | -- | -- | 16 | 20 | 26 | 32 | 44 |
| | | | PN40 | (kg) | -- | -- | -- | -- | 17 | 21 | 29 | 36 | 50 |

Other dimensions refer to pages 20-21.

max. permissible closing pressures on flow-to-open P2 = 0.
Observe pressure-temperature-limits, refer to page 2.

| Fig. 440 Parabolic plug | | | | | | | | | | | | |
|--------------------------------|--|---------------------|----------|----------------|-----------|----------|----------|----------|----------|-----------|------------|-----|
| DN | | | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | |
| Parabolic plug | Kvs-value | (m ³ /h) | 4 2,5 | 6,3 4 / 2,5 | 10 6,3 | 16 10 | 25 16 | 40 25 | 63 40 | 100 63 | 160 100 | |
| | max. diff. pressure ¹⁾ | | (bar) | 40 | 40 | 40 | 40 | 30 | 20 | 8 | 4 | 1,5 |
| Seat-ø | | (mm) | 21 | 21 | 27 | 31 | 41 | 51 | 66 | 81 | 101 | |
| Travel | | (mm) | 20 | | | | | | 30 | | | |
| FR 1.2 2 kN | Closing pressure | I. | (bar) | 40 | 40 | 27,5 | 20,6 | 11,3 | 7 | 3,8 | 2,3 | 1,3 |
| | Operating time (factory setting) | | (s) | 40 | | | | | | 60 | | |
| | Operating time on electrical power failure | | (s) | 28 | | | | | | 35 | | |

| Fig. 440 Parabolic pressure balanced plug | | | | | | | | | | | |
|--|--|---------------------|-------|----|----|----|----------|----------|----------|-----------|------------|
| DN | | | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 |
| Parabolic plug | Kvs-value | (m ³ /h) | | | | | 25 16 | 40 25 | 63 40 | 100 63 | 160 100 |
| | max. diff. pressure ¹⁾ | | (bar) | | | | | 30 | 20 | 8 | 4 |
| Seat-ø | | (mm) | | | | | 41 | 51 | 66 | 81 | 101 |
| Travel | | (mm) | | | | | 20 | | 30 | | |
| FR 1.2 2 kN | Closing pressure | I. | (bar) | | | | 40 | 40 | 40 | 40 | 25 |
| | Operating time (factory setting) | | (s) | | | | | 40 | 60 | | |
| | Operating time on electrical power failure | | (s) | | | | | 28 | 35 | | |

I. Fig. 440: PTFE-V-ring unit (Medium temperature restricted to 200°C)

¹⁾ max. differential pressure drop

Control valve in straightway form with electric actuator FR 2.1 / FR 2.2

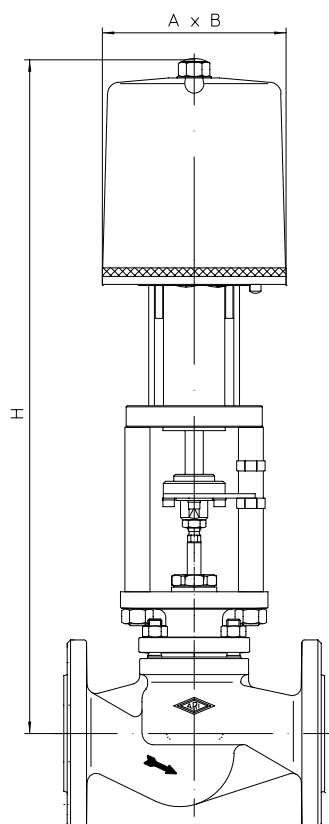


Fig. 440

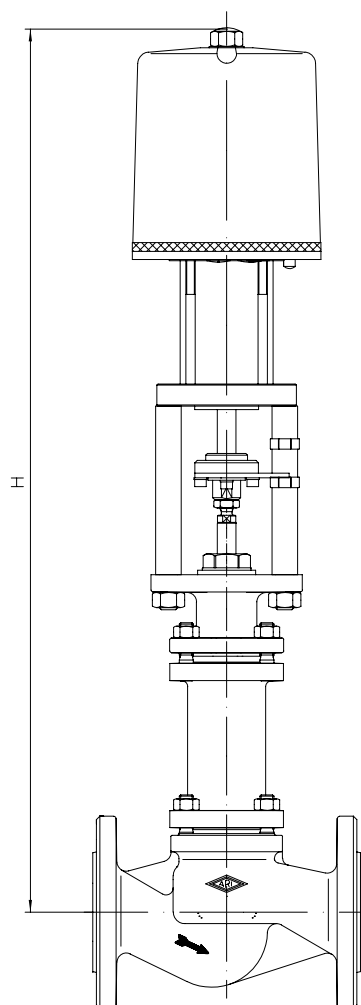


Fig. 441

| Actuator data | | FR 2.1 / 2.2 |
|--|------|--------------|
| A | (mm) | 162 |
| B | (mm) | 162 |
| Supply voltage: 230V 50Hz Other voltages: 24V 50/60Hz; 230V 60Hz Technical data for actuator refer to data sheet FR2.1/2.2 | | |

 Control valves Type 440/441 - FR 2.1-2.2,
 actuator type approved acc. to DIN EN 14597

Heights and weights

| DN | | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | | | |
|----------|--------|----------------------------------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Fig. 440 | FR 2.1 | H | (mm) | 579 | 579 | 587 | 587 | 594 | 600 | 613 | 628 | 647 | |
| | | | (mm) | 616 | 616 | 624 | 624 | 631 | 637 | 650 | 665 | 684 | |
| | FR 2.1 | Parabolic plug | PN16 | (kg) | 12 | 13 | 14 | 16 | 17 | 20 | 25 | 31 | 41 |
| | | | PN40 | (kg) | 13 | 14 | 15 | 16 | 19 | 22 | 29 | 35 | 47 |
| | FR 2.2 | Parabolic pressure balanced plug | PN16 | (kg) | -- | -- | -- | -- | 18 | 22 | 28 | 35 | 46 |
| | | | PN40 | (kg) | -- | -- | -- | -- | 20 | 24 | 32 | 39 | 52 |
| Fig. 441 | FR 2.1 | H | (mm) | 764 | 764 | 772 | 772 | 763 | 765 | 849 | 861 | 877 | |
| | | | (mm) | 801 | 801 | 809 | 809 | 800 | 802 | 886 | 898 | 914 | |
| | FR 2.1 | Parabolic plug | PN16 | (kg) | 17 | 17 | 18 | 20 | 23 | 25 | 28 | 39 | 55 |
| | | | PN40 | (kg) | 19 | 20 | 23 | 26 | 32 | 34 | 41 | 51 | 68 |
| | FR 2.2 | Parabolic pressure balanced plug | PN16 | (kg) | -- | -- | -- | -- | 24 | 27 | 31 | 43 | 60 |
| | | | PN40 | (kg) | -- | -- | -- | -- | 33 | 36 | 44 | 55 | 73 |

Other dimensions refer to pages 20-21.

| Fig. 440 / 441 Parabolic plug | | | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | | |
|--|-----------------------------------|---------------------|----------|----------------|-----------|----------|----------|----------|----------|-----------|------------|-----|--|
| DN | | | | | | | | | | | | | |
| Parabolic plug | Kvs-value | (m ³ /h) | 4 2,5 | 6,3 4 / 2,5 | 10 6,3 | 16 10 | 25 16 | 40 25 | 63 40 | 100 63 | 160 100 | | |
| | max. diff. pressure ¹⁾ | (bar) | 40 | 40 | 40 | 40 | 30 | 20 | 8 | 4 | 1,5 | | |
| Seat-ø | | | (mm) | 21 | 21 | 27 | 31 | 41 | 51 | 66 | 81 | 101 | |
| Travel | | | (mm) | 20 | | | | | 30 | | | | |
| FR 2.1 1 kN | Closing pressure | I. | (bar) | 18 | 18 | 10,3 | 7,4 | 3,6 | 2 | | | | |
| | | II. | (bar) | 16 | 16 | 9 | 6,5 | 3,2 | 1,7 | | | | |
| | | III. | (bar) | 9 | 9 | 7,4 | 5,2 | 1,9 | 0,9 | | | | |
| | Operating time (50 Hz) | | (s) | 69 | | | | | | | | | |
| | Operating speed | | (mm/s) | 0,29 | | | | | | | | | |
| Operating time on electrical power failure | | (s) | 5,5 | | | | | | | | | | |
| FR 2.2 2,2 kN | Closing pressure | I. | (bar) | 40 | 40 | 30,8 | 23,1 | 12,8 | 8 | 4,3 | 2,7 | 1,5 | |
| | | II. | (bar) | 40 | 40 | 28,8 | 21,6 | 11,9 | 7,4 | 3,9 | 2,3 | 1,3 | |
| | | III. | (bar) | 30,7 | 30,7 | 27,1 | 20,4 | 10,6 | 6,5 | 3,6 | 2,2 | 1,2 | |
| | Operating time (50 Hz) | | (s) | 69 | | | | | 103 | | | | |
| | Operating speed | | (mm/s) | 0,29 | | | | | | | | | |
| Operating time on electrical power failure | | (s) | 5,5 | | | | | 8,5 | | | | | |

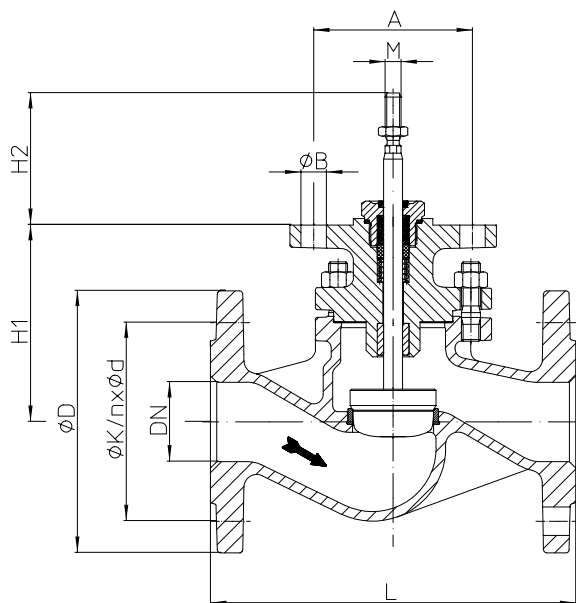
| Fig. 440 / 441 Parabolic pressure balanced plug | | | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | |
|---|-----------------------------------|---------------------|--------|----|-----------|----------|----------|----------|----------|-----------|------------|----|
| DN | | | | | | | | | | | | |
| Parabolic plug | Kvs-value | (m ³ /h) | | | 10 6,3 | 16 10 | 25 16 | 40 25 | 63 40 | 100 63 | 160 100 | |
| | max. diff. pressure ¹⁾ | (bar) | | | 40 | 40 | 30 | 20 | 8 | 4 | 1,5 | |
| Seat-ø | | | (mm) | | 27 | 31 | 41 | 51 | 66 | 81 | 101 | |
| Travel | | | (mm) | 20 | | | | | 30 | | | |
| FR 2.1 1 kN | Closing pressure | I. | (bar) | | | 20 | 20 | 20 | 16 | 16 | 16 | 12 |
| | | II. | (bar) | | | | | 20 | 16 | 16 | | |
| | | III. | (bar) | | | | | 16 | 15 | 2 | | |
| | Operating time (50 Hz) | | (s) | | | 69 | | | | | 103 | |
| | Operating speed | | (mm/s) | | | 0,29 | | | | | | |
| Operating time on electrical power failure | | (s) | | | 5,5 | | | | | 8,5 | | |
| FR 2.2 2,2 kN | Closing pressure | I. | (bar) | | | | | 40 | 40 | 40 | 40 | 28 |
| | | II. | (bar) | | | | | 40 | 40 | 40 | 40 | 28 |
| | | III. | (bar) | | | | | 40 | 40 | 40 | 40 | 40 |
| | Operating time (50 Hz) | | (s) | | | 69 | | | | | 103 | |
| | Operating speed | | (mm/s) | | | 0,29 | | | | | | |
| Operating time on electrical power failure | | (s) | | | 5,5 | | | | | 8,5 | | |

Control valves Type 440/441 - FR 2.1-2.2,
 actuator tape approved acc. to DIN EN 14597

- I. Fig. 440: PTFE-V-ring unit / EPDM-sealing
- II. Fig. 440: PTFE- / pure graphite-packing
- III. Fig. 441: Bellows seal

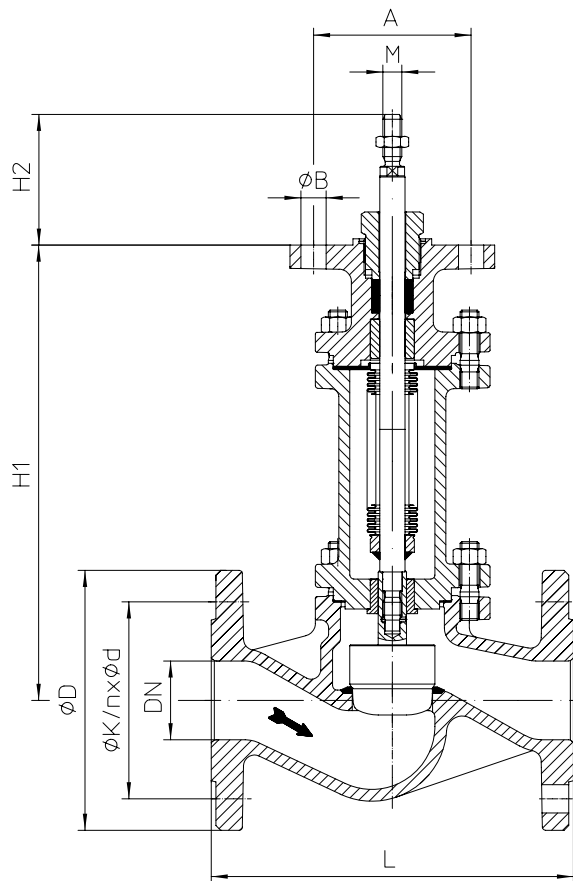
¹⁾ max. differential pressure drop

Control valve in straightway form


Fig. 440

DN15-150

(e.g. DP32-34, PREMIO 2-25kN, AUMA SAR 07.2-10.2)


Fig. 441

DN15-150

(e.g. DP32-34, PREMIO 2-25kN, AUMA SAR 07.2-10.2)

| DN | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|
|----|----|----|----|----|----|----|----|----|-----|-----|-----|

| Dimensions | | | | | | | | | | | | | |
|------------|---------------------|------|--------|-----|-----|-----|-----------|-----|-----|-----|-----------|--|--|
| M | Fig. 440 | (mm) | M10 | | | | M14 x 1,5 | | | | M16 x 1,5 | | |
| | Fig. 441 | (mm) | M12 | | | | | | | | M16 | | |
| H1 | Fig. 440 | (mm) | 103 | 111 | 118 | 124 | 137 | 152 | 171 | 210 | 270 | | |
| | Fig. 441 | (mm) | 288 | 296 | 287 | 289 | 373 | 385 | 401 | 565 | 596 | | |
| H2 | Fig. 440 / Fig. 441 | (mm) | 83 | | | | | | | | | | |
| A | Fig. 440 / Fig. 441 | (mm) | 100 | | | | | | | | | | |
| n x ØB | Fig. 440 / Fig. 441 | (mm) | 2 x 16 | | | | | | | | | | |

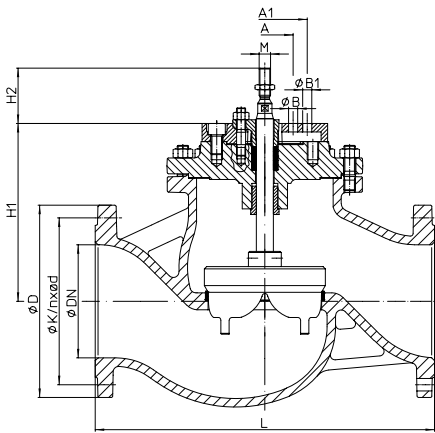
| Face-to-face dimension FTF series 1 according to DIN EN 558 | | | | | | | | | | | | |
|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L | (mm) | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 |

| Flanges acc. to DIN EN 1092-1/-2 | | | Flange holes / -thickness tolerances acc. to DIN 2533/2544/2545 | | | | | | | | | | | |
|----------------------------------|------|------|---|--------|--------|--------|--------|--------|--------|--------|--------|-----|--------|--------|
| ØD | PN16 | (mm) | 95 | 105 | 115 | 140 | 150 | 165 | 185 | 200 | 220 | 250 | 285 | |
| | PN25 | (mm) | | | | | | | | | 235 | 270 | 300 | |
| | PN40 | (mm) | | | | | | | | | | | | |
| ØK | PN16 | (mm) | 65 | 75 | 85 | 100 | 110 | 125 | 145 | 160 | 180 | 210 | 240 | |
| | PN25 | (mm) | | | | | | | | | 190 | 220 | 250 | |
| | PN40 | (mm) | | | | | | | | | | | | |
| n x Ød | PN16 | (mm) | 4 x 14 | 4 x 14 | 4 x 18 | 4 x 18 | 4 x 18 | 4 x 18 | 8 x 18 | 8 x 18 | 8 x 18 | | 8 x 22 | |
| | PN25 | (mm) | | | | | | | | | 8 x 22 | | 8 x 26 | 8 x 26 |
| | PN40 | (mm) | | | | | | | | | | | | |

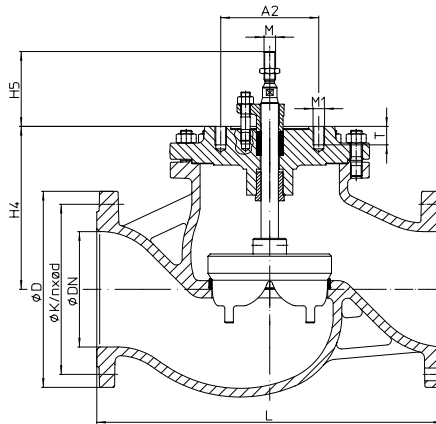
| Weights | | | | | | | | | | | | | |
|----------|-----------------|------|-----|------|-----|------|-----|------|------|------|------|------|------|
| Fig. 440 | PN16 (JL1040) | (kg) | 3,6 | 4,3 | 5,2 | 6,8 | 8,7 | 11,6 | 16,7 | 22,4 | 32,5 | 49,7 | 72,9 |
| | PN40 (1.0619+N) | (kg) | 4,3 | 5,2 | 6,1 | 7,5 | 10 | 13 | 20 | 26 | 38,7 | 55,9 | 77,2 |
| Fig. 441 | PN16 (JL1040) | (kg) | 8 | 8 | 9 | 11,5 | 14 | 16,5 | 19,5 | 30,5 | 46 | 65,8 | 87,2 |
| | PN40 (1.0619+N) | (kg) | 10 | 11,5 | 14 | 17 | 23 | 25,5 | 32,5 | 42,5 | 59 | 76,3 | 92,7 |

| max. permissible thrust | | | | | | | | | | | | | | |
|-------------------------|------|--|------|--|--|--|------|--|--|--|------|--|--|--|
| Fig. 440 | (kN) | | 12,7 | | | | 29,6 | | | | 40,6 | | | |
| Fig. 441 | (kN) | | 18,2 | | | | | | | | 37 | | | |

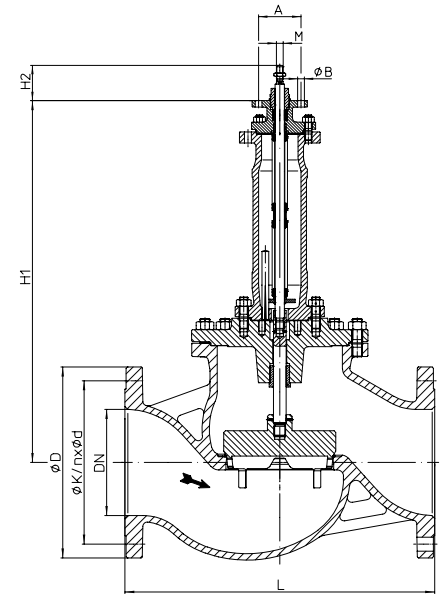
Control valve in straightway form


Fig. 440
DN200-250

(e.g. DP34-34Tri, PREMIO 12-25kN)


Fig. 440
DN200-250

(e.g. AUMA SAR 07.2-10.2)


Fig. 441 M16
DN200-250

(e.g. PREMIO 12-25kN, AUMA SAR 07.2-10.2)

| DN | 200 | 250 |
|----|-----|-----|
|----|-----|-----|

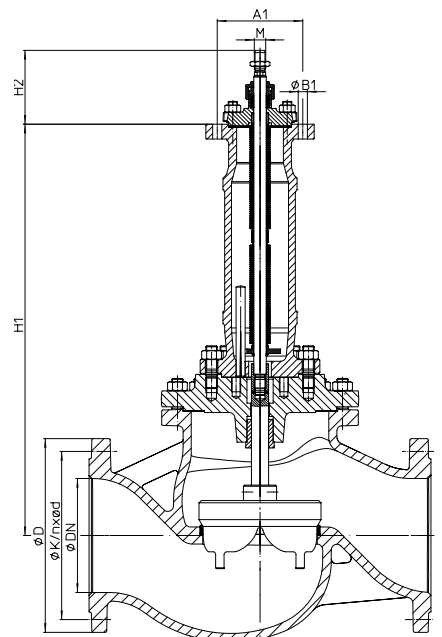
| Dimensions | | | | | | |
|------------|----------|------|---------|--------|--------|--------|
| M | Fig. 440 | (mm) | M20 | | | |
| | Fig. 441 | (mm) | M16 | M20 | M16 | M20 |
| H1 | Fig. 440 | (mm) | 312 | | 372 | |
| | Fig. 441 | (mm) | 792 | 723 | 856 | 782 |
| H2 | Fig. 440 | (mm) | 98 | | | |
| | Fig. 441 | (mm) | 83 | 130 | 83 | 130 |
| H4 | Fig. 440 | (mm) | 280 | | 340 | |
| H5 | Fig. 440 | (mm) | 130 | | | |
| A | Fig. 440 | (mm) | 100 | | | |
| | Fig. 441 | (mm) | 100 | -- | 100 | -- |
| n x ØB | Fig. 440 | (mm) | 2 x 16 | | | |
| | Fig. 441 | (mm) | 2 x 16 | -- | 2 x 16 | -- |
| A1 | Fig. 440 | (mm) | 150 | | | |
| | Fig. 441 | (mm) | -- | 150 | -- | 150 |
| n x ØB1 | Fig. 440 | (mm) | 4 x 16 | | | |
| | Fig. 441 | (mm) | - | 4 x 16 | -- | 4 x 16 |
| A2 | Fig. 440 | (mm) | 170 | | | |
| n x M1 | Fig. 440 | (mm) | 8 x M20 | | | |
| T | Fig. 440 | (mm) | 32 | | | |

| Face-to-face dimension FTF series 1 according to DIN EN 558 | | | | |
|---|------|-----|-----|--|
| L | (mm) | 600 | 730 | |

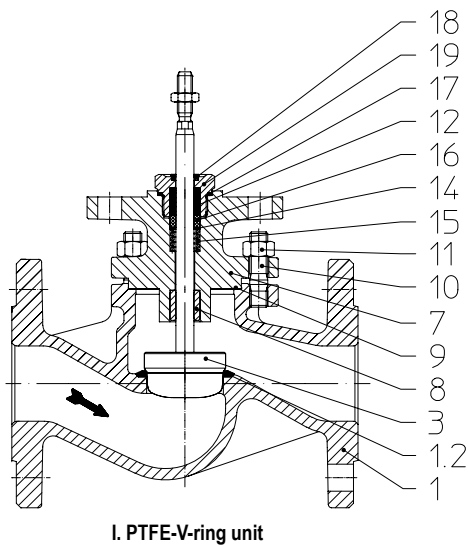
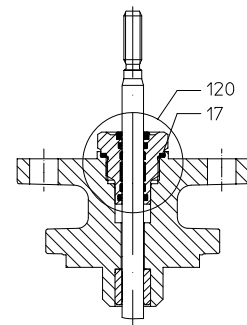
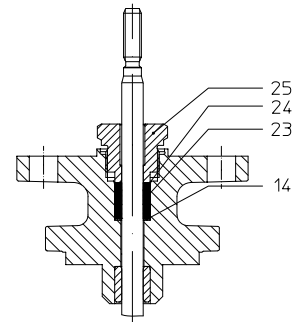
| Flanges acc. to DIN EN 1092-1/-2 | | | | |
|----------------------------------|------|------|-------|-------|
| ØD | PN16 | (mm) | 340 | 405 |
| | PN25 | (mm) | 360 | 425 |
| | PN40 | (mm) | 375 | 450 |
| ØK | PN16 | (mm) | 295 | 355 |
| | PN25 | (mm) | 310 | 370 |
| | PN40 | (mm) | 320 | 385 |
| n x Ød | PN16 | (mm) | 12x22 | 12x26 |
| | PN25 | (mm) | 12x26 | 12x30 |
| | PN40 | (mm) | 12x30 | 12x33 |

| Weights | | | | | | |
|----------|-----------------|------|-------|-------|-------|-------|
| Fig. 440 | PN16 (JL1040) | (kg) | 145 | 259,3 | | |
| | PN40 (1.0619+N) | (kg) | 176,8 | 291,4 | | |
| Fig. 441 | PN16 (JL1040) | (kg) | 158,1 | 167,2 | 282,2 | 281,3 |
| | PN40 (1.0619+N) | (kg) | 203,6 | 202 | 318,1 | 316,5 |

| max. permissible thrust | | |
|-------------------------|------|------|
| Fig. 440 | (kN) | 59,1 |
| Fig. 441 | (kN) | 34 |


Fig. 441 M20
DN200-250

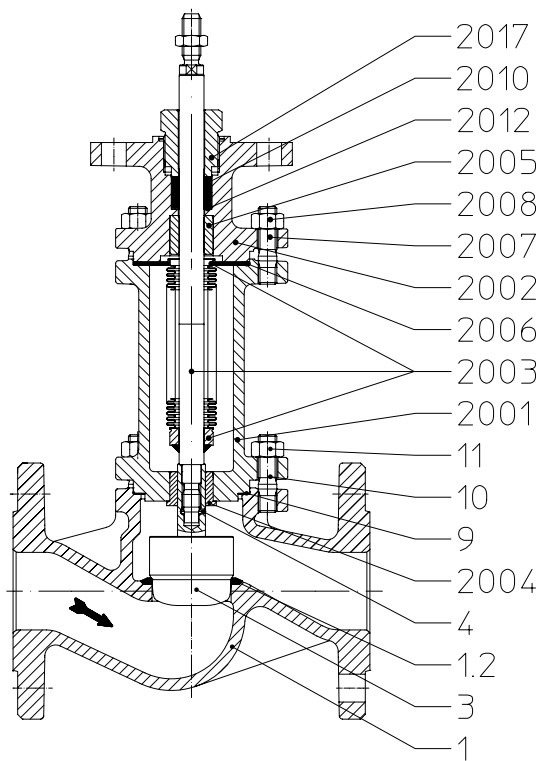
(e.g. DP34-34Tri)


I. PTFE-V-ring unit

I. EPDM-sealing

II. PTFE- / pure graphite-packing

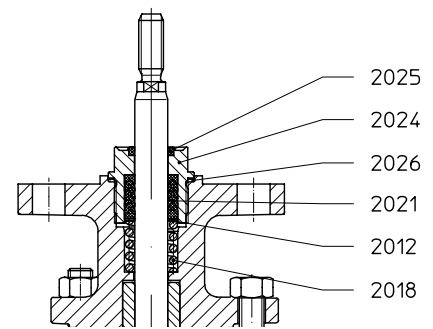
| Pos. | Sp.p. | Description | Fig. 12.440 | Fig. 22.440 / Fig. 23.440 | Fig. 34.440 / Fig. 35.440 | Fig. 54.440 / 55.440 | |
|-------|---------------------------|--------------------|--|------------------------------|---------------------------|---|----|
| 1 | | Body | EN-GJL-250 , EN-JL 1040 | EN-GJS-400-18U-LT, EN-JS1049 | GP240GH+N, 1.0619+N | GX5CrNiMo19-11-2, 1.4408 | |
| 1.2 | | Seat ring | X20Cr13+QT, 1.4021+QT | | | X20Cr13+QT, 1.4021+QT >DN50: G19 9 Nb Si, 1.4551 | -- |
| 3 | x | Plug | X20Cr13+QT, 1.4021+QT | | | X6CrNiMoTi17-12-2, 1.4571 | |
| 7 | | Mounting bonnet | EN-GJS-400-18U-LT, EN-JS1049 | | GP240GH+N, 1.0619+N | GX5CrNiMo19-11-2, 1.4408 | |
| 8 | | Guide bushing | X20Cr13+QT, 1.4021+QT (hardened) | | | X6CrNiMoTi17-12-2, 1.4571 | |
| 9 | x | Gasket | Pure graphite (CrNi laminated with graphite) | | | | |
| 10 | | Stud | 25CrMo4, 1.7218 | | | A4 - 70 | |
| 11 | | Hexagon nuts | C35E, 1.1181 | | | A4 | |
| 12 | Set. refer to Pos. 100 | V-ring unit | PTFE | | | | |
| 14 | | Washer | X5CrNi18-10, 1.4301 | | | | |
| 15 | | Compression spring | X10CrNi18-8, 1.4310 | | | | |
| 16 | | Bush | PTFE (strengthened) | | | | |
| 17 | | Gasket | Cu / Soft iron | | | | |
| 18 | | Scraper | PTFE (strengthened) | | | | |
| 19 | | Screw joint | X8CrNiS18-9, 1.4305 | | | | |
| 23/24 | x | Packing ring | PTFE or Pure graphite | | | | |
| 25 | x | Screw joint | X8CrNiS18-9, 1.4305 | | | | |

Stem sealings Fig. 440

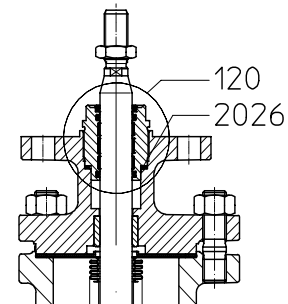
| | | | |
|-------|---|-----------------|---|
| 23 | x | Packing ring | PTFE |
| 23/24 | x | Packing ring | Pure graphite |
| 100 | x | V-ring unit set | Set of: Pos. 12, 14, 15, 16, 17, 18, 19 |
| 120 | x | EPDM-sealing | EPDM / X8CrNiS18-9, 1.4305 (when spare part, also necessary: Pos. 17) |
| | | L Spare parts | |



III. PTFE-packing / Pure graphite-packing



III. Stainless steel-bellows with V-ring unit



III. Stainless steel bellows seal with EPDM-sealing

| Pos. | Sp.p. | Description | Fig. 12.441 | Fig. 22.441 / Fig. 23.441 | Fig. 34.441 / Fig. 35.441 | Fig. 55.441 | |
|------|---------------------------|----------------------|---|------------------------------|---|---------------------------|--|
| 1 | | Body | EN-GJL-250 , EN-JL1040 | EN-GJS-400-18U-LT, EN-JS1049 | GP240GH+N, 1.0619+N | GX5CrNiMo19-11-2, 1.4408 | |
| 1.2 | | Seat ring | X20Cr13+QT, 1.4021+QT | | X20Cr13+QT, 1.4021+QT >DN50: G19 9 Nb Si, 1.4551 | -- | |
| 3 | x | Plug | X20Cr13+QT, 1.4021+QT | | | X6CrNiMoTi17-12-2, 1.4571 | |
| 4 | x | Clamping sleeve | X10CrNi18-8, 1.4310 | | | A4 - 70 | |
| 9 | x | Gasket | Pure graphite (CrNi laminated with graphite) | | | | |
| 10 | | Stud | 25CrMo4, 1.7218 | | | A4 - 70 | |
| 11 | | Hexagon nuts | C35E, 1.1181 | | | A4 | |
| 2001 | | Bellows housing | EN-GJS-400-18U-LT, EN-JS1049 | | GP240GH+N, 1.0619+N | GX5CrNiMo19-11-2, 1.4408 | |
| 2002 | | Mounting bonnet | EN-GJS-400-18U-LT, EN-JS1049 | | GP240GH+N, 1.0619+N | GX5CrNiMo19-11-2, 1.4408 | |
| 2003 | x | Stem- / Bellows unit | X20Cr13+QT, 1.4021+QT / X6CrNiTi18-10, 1.4541 | | | X6CrNiMoTi17-12-2, 1.4571 | |
| 2004 | | Giude bushing | X20Cr13+QT, 1.4021+QT (hardened) | | | X6CrNiMoTi17-12-2, 1.4571 | |
| 2005 | | Giude bushing | X20Cr13+QT, 1.4021+QT (hardened) | | | X6CrNiMoTi17-12-2, 1.4571 | |
| 2006 | x | Gasket | Pure graphite (CrNi laminated with graphite) | | | | |
| 2007 | | Stud | 25CrMo4, 1.7218 | | | A4 - 70 | |
| 2008 | | Hexagon nuts | C35E, 1.1181 | | | A4 | |
| 2010 | x | Packing ring | Pure graphite | | | | |
| 2012 | Set: refer to Pos. 100 | Washer | X5CrNi18-10, 1.4301 | | | | |
| 2018 | | Compression spring | X10CrNi18-8, 1.4310 | | | | |
| 2021 | | V-ring unit | PTFE | | | | |
| 2024 | | Screw joint | X8CrNiS18-9, 1.4305 | | | | |
| 2025 | | Scraper | PTFE | | | | |
| 2026 | | Gasket | X6CrNiMoTi17-12-2, 1.4571 | | | | |
| 2017 | | | Screw joint | X8CrNiS18-9, 1.4305 | | | |

Stem sealings Fig. 441

| | | | |
|------|---|-----------------|---|
| 2010 | x | Packing ring | Pure graphite |
| 2010 | x | Packing ring | PTFE |
| 100 | x | V-ring unit set | Set of: Pos. 2012 - 2026 |
| 120 | x | EPDM-sealing | EPDM / X8CrNiS18-9, 1.4305 (when spare part, also necessary: Pos. 2031) |
| | | L Spare parts | |

myValve® - Your Valve Sizing-Program.

myValve® is a powerful software tool that not only helps you size your system components; it also gives you instant access to all other data about the selected product, such as order information, spare parts drawings, operating instructions, data sheets, etc., whenever you need it.



Contents:

Module ARI-control valves STEVI-calculation

- Sizing (calculation of flow quantity Kv, volume flow Q, pressure drop Δp , sound level and selecting the valve.)

Media:

Integrated media-databank (more than 160 media) with conditions:

- Vapours / gases
- Steam (saturated and superheated)
- Liquids

Special features:

- Project administration of the calculation and product data incl. spare part drawings concerning to project and tag number.
- Direct output or calculation and product data in PDF format.
- Product data could be taken for a direct order.
- SI- and ANSI-units with direct conversion to another databank.
- Settings with over pressure or absolute pressure.
- All ARI valves are integrated in a databank.
- Direct access concerning to the product on data sheets, operating instructions, pressure-temperature-diagram and spare part drawings
- Operation in company networks possible (no complex installations on individually PC's necessary).
- Extensive catalogue extending over several product groups.

System Requirements:

Windows operating systems, Linux, etc.