

APPLICATION CATALOGUE

Oil & Gas Valves

API-rated gate, globe, ball, check and needle valves for upstream, midstream and downstream service

A representative selection of the range. Valves are configurable to your specification.

Oil and gas applications demand valves rated to API standards, with full material traceability, third-party inspection capability, and in many cases fire-safe certification and sour-service compliance. This selection brings together API gate, globe, check and ball valves in carbon steel, stainless steel and duplex, with pressure classes from Class 150 to Class 900. Specifications are indicative and confirmed at the time of quotation.

KEY STANDARDS

- API 600 (steel gate valves)
- API 6D (pipeline valves)
- API 607 / API 6FA (fire-safe)
- ASME B16.34 (pressure-temperature ratings)
- NACE MR0175 / ISO 15156 (sour service)
- ASME B16.5 (flanges)

SUPPLIED BY

EAP Global Limited (trading as Euro Flow Control)

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WHO WE ARE

About Euro Flow Control

Euro Flow Control supplies industrial valves and flow control equipment to industry across Europe and worldwide.

This catalogue shows a selection of our range. It is indicative of what we supply, not a limit: we source a great deal more to specification, so if you do not see what you need, please ask.

Euro Flow Control supplies equipment to project specification across water and wastewater, marine, fire protection, HVAC, oil and gas and industrial process applications. Requirements outside the range shown are supplied to specification on request.

Enquiries are handled on a project basis. On receipt of a specification, parts list or written description of requirement, we prepare a quotation for review.

SECTORS SERVED

Water and wastewater. Marine and offshore. Fire protection. HVAC and building services. Oil and gas. Industrial process.

STANDARDS AND CERTIFICATION

Products are manufactured to recognised international standards (API, ASME, EN, ISO and DIN). Material and test certification to EN 10204 3.1 is provided as standard, with PED, ATEX, fire-safe (API 607 / 6FA) and marine classification available on request and confirmed per order.

ENQUIRY TO QUOTATION

- Submit your requirement as a specification, parts list or written description.
- We confirm specification, materials, end connections and applicable standards against your requirement.
- We issue a quotation, with certification and approvals provided to project requirements.

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Issued July 2026

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OIL & GAS VALVES

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API VALVE

API Gate Valve

REF **EFC-214** ISSUED **08 Jul 2026**

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 2 to NPS 24 |
| Pressure | Class 600 to Class 900 |
| End connection | flanged (RF (Raised Face)) / flanged (RTJ (Ring Type Joint)) / butt-weld |

ACTUATION

- handwheel — Manual handwheel operation
- gear operator — Gear operation (G.O)
- pneumatic — Available on request per customer requirement
- electric — Available on request per customer requirement
- hydraulic — Available on request per customer requirement

STANDARDS

| | |
|--------|------------|
| Design | API |
|--------|------------|

FEATURES

- Rising stem design
- Gear operation available for larger sizes
- Three end connection options: RF, RTJ, and BW
- Slab or wedge gate configuration (NPS 6 and larger, NPS 8 and larger variants shown in drawings)
- Available with handwheel or gear operator

OPTIONS & NOTES

- We may provide other different actuators according to the customer's request, such as pneumatic, electric, hydraulic actuators, the details of them according to the actual valve working condition.

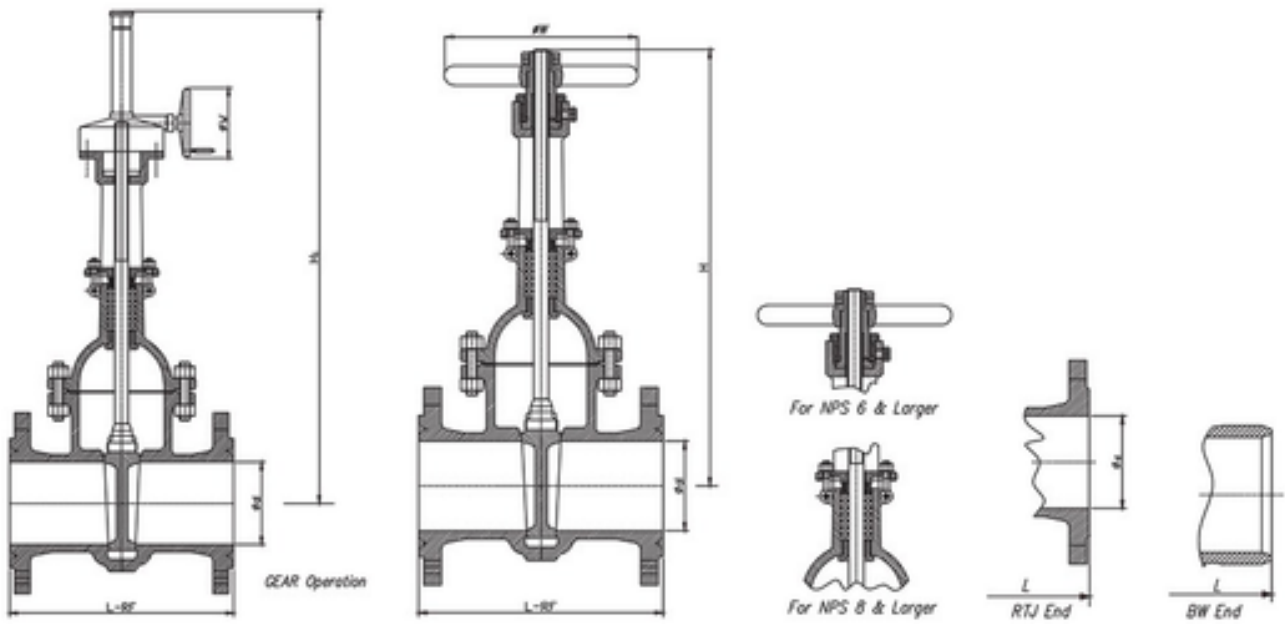


Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Gate Valve

SECTION Technical drawing 1 REF EFC-214



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Gate Valve

SECTION Dimensions per size REF EFC-214

| SIZE | L_RF | L_RTJ | L_BW | D | H | W | H1 | W1 | WEIGHT |
|------------------|------|-------|------|-----|------|-----|------|-----|---------------------------|
| NPS 2 / DN50 | 292 | 295 | 292 | 50 | 380 | 200 | — | — | H.W 37 kg |
| NPS 2 1/2 / DN65 | 330 | 333 | 330 | 63 | 420 | 250 | — | — | H.W 50 kg |
| NPS 3 / DN80 | 356 | 359 | 356 | 76 | 500 | 280 | 585 | 310 | H.W 82 kg / G.O 87 kg |
| NPS 4 / DN100 | 432 | 435 | 432 | 100 | 575 | 300 | 695 | 310 | H.W 134 kg / G.O 142 kg |
| NPS 5 / DN125 | 508 | 511 | 508 | 127 | 700 | 350 | 790 | 310 | H.W 175 kg / G.O 227 kg |
| NPS 6 / DN150 | 559 | 562 | 559 | 150 | 750 | 450 | 900 | 460 | H.W 245 kg / G.O 286 kg |
| NPS 8 / DN200 | 660 | 664 | 660 | 199 | 850 | 500 | 1110 | 460 | H.W 423 kg / G.O 472 kg |
| NPS 10 / DN250 | 787 | 791 | 787 | 247 | 1005 | 650 | 1300 | 460 | H.W 682 kg / G.O 657 kg |
| NPS 12 / DN300 | 838 | 841 | 838 | 298 | 1130 | 700 | 1650 | 460 | H.W 932 kg / G.O 893 kg |
| NPS 14 / DN350 | 889 | 892 | 889 | 326 | 1270 | 900 | 1750 | 530 | H.W 1177 kg / G.O 1318 kg |
| NPS 16 / DN400 | 991 | 994 | 991 | 374 | 1365 | 900 | 1900 | 530 | H.W 1513 kg / G.O 1720 kg |
| NPS 18 / DN450 | 1092 | 1095 | 1092 | 419 | 2020 | 600 | — | — | G.O 1980 kg |
| NPS 20 / DN500 | 1194 | 1200 | 1194 | 463 | 2172 | 600 | — | — | G.O 2460 kg |
| NPS 24 / DN600 | 1397 | 1407 | 1397 | 558 | 2650 | 600 | — | — | G.O 3650 kg |
| NPS 2 / DN50 | 368 | 371 | 368 | 47 | 500 | 280 | — | — | H.W 70 kg |
| NPS 2 1/2 / DN65 | 419 | 422 | 419 | 57 | 450 | 280 | — | — | H.W 110 kg |
| NPS 3 / DN80 | 381 | 384 | 381 | 72 | 505 | 300 | — | 310 | H.W 140 kg / G.O 167 kg |
| NPS 4 / DN100 | 457 | 460 | 457 | 98 | 575 | 350 | 625 | 310 | H.W 178 kg / G.O 227 kg |
| NPS 5 / DN125 | 559 | 562 | 559 | 125 | 630 | 400 | 740 | 310 | H.W 258 kg / G.O 285 kg |
| NPS 6 / DN150 | 610 | 613 | 610 | 146 | 795 | 500 | 900 | 460 | H.W 358 kg / G.O 396 kg |
| NPS 8 / DN200 | 737 | 740 | 737 | 190 | 885 | 650 | 1000 | 460 | H.W 550 kg / G.O 627 kg |
| NPS 10 / DN250 | 838 | 841 | 838 | 238 | 1035 | 700 | 1130 | 530 | H.W 1000 kg / G.O 1100 kg |
| NPS 12 / DN300 | 965 | 968 | 965 | 282 | 1180 | 900 | 1520 | 530 | H.W 1215 kg / G.O 1310 kg |
| NPS 14 / DN350 | 1029 | 1038 | 1029 | 311 | 1350 | 900 | 1600 | 530 | H.W 1600 kg / G.O 1665 kg |
| NPS 16 / DN400 | 1130 | 1140 | 1130 | 355 | 1890 | 900 | 2100 | 600 | H.W 2150 kg / G.O 2330 kg |
| NPS 18 / DN450 | 1219 | — | — | 400 | 2232 | 800 | — | — | G.O 3000 kg |
| NPS 20 / DN500 | 1321 | — | — | 444 | 2435 | 800 | — | — | G.O 3800 kg |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

EFC-214 · Specifications confirmed at quote

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API VALVE

API Gate Valve

REF **EFC-215** ISSUED **08 Jul 2026**

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 2 to NPS 16 |
| Pressure | Class 1500 to Class 2500 |
| End connection | flanged (RF (Raised Face)) / flanged (RTJ (Ring Type Joint)) / butt-weld (BW BB (Butt Weld Bolted Bonnet)) / butt-weld (BW PSB (Butt Weld Pressure Seal Bonnet)) |

ACTUATION

- handwheel — Standard manual handwheel
- pneumatic — Available on request, details subject to actual valve working condition
- electric — Available on request, details subject to actual valve working condition
- hydraulic — Available on request, details subject to actual valve working condition

STANDARDS

| | |
|--------|------------|
| Design | API |
|--------|------------|

FEATURES

- Available in Class 1500 and Class 2500 pressure ratings
- Multiple end connection options: Raised Face (RF), Ring Type Joint (RTJ), Butt Weld Bolted Bonnet (BW BB), and Butt Weld Pressure Seal Bonnet (BW PSB)
- Size range NPS 2 to NPS 16 for Class 1500; NPS 2 to NPS 12 for Class 2500
- Compatible with multiple actuator types including pneumatic, electric, and hydraulic

OPTIONS & NOTES

- We may provide other different actuators according to the customer's request, such as pneumatic, electric, hydraulic actuators, the details of them according to the actual valve working condition.

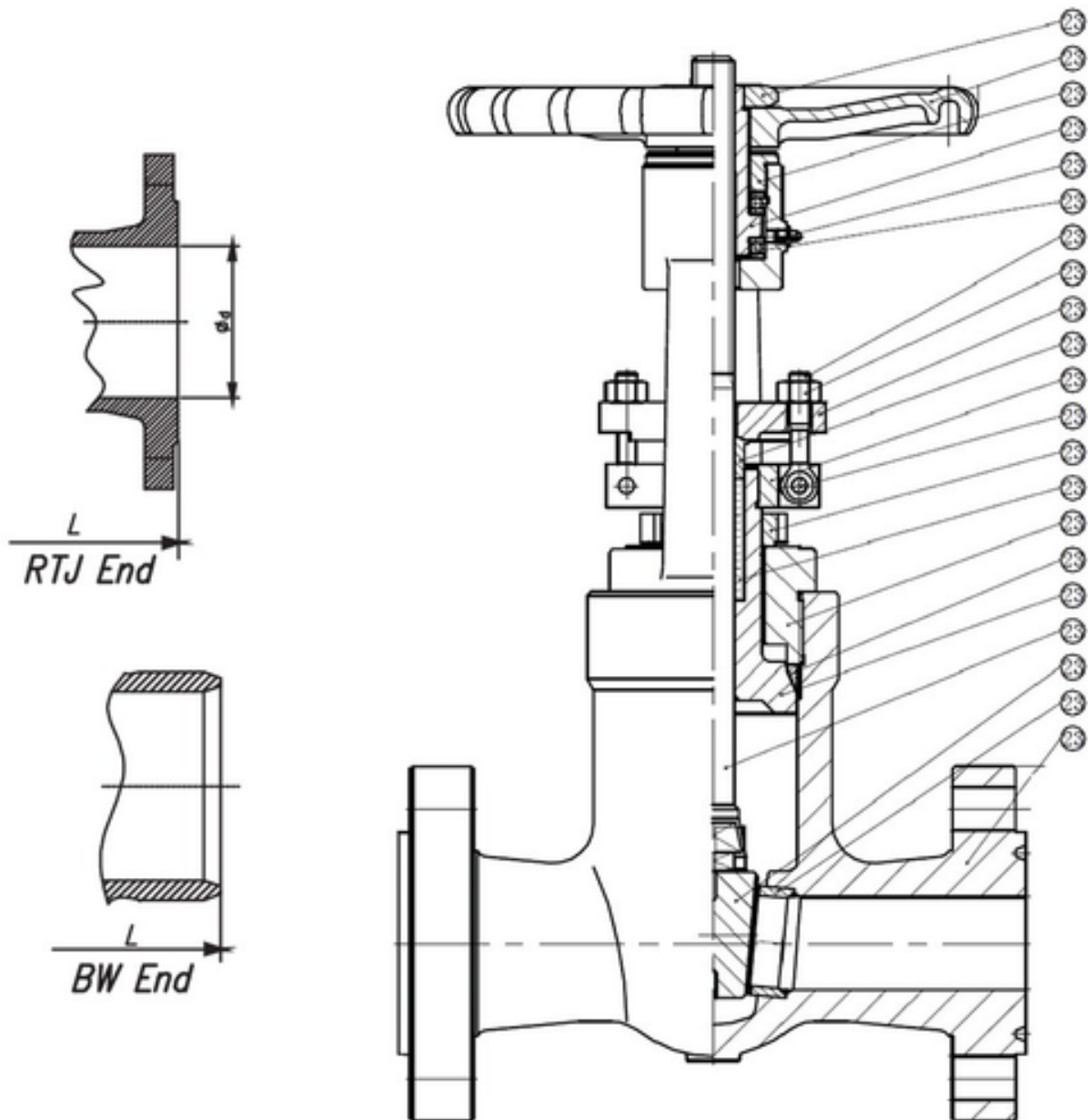


Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Gate Valve

SECTION Technical drawing 1 REF EFC-215



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Gate Valve

SECTION Dimensions per size REF EFC-215

| SIZE | L_RF | L_RTJL_BW_BB_BW_PSB | D | H | W | H1 | W1 | WEIGHT | | |
|--------------------------------------|------|---------------------|------|------|-----|------|-----|--------|--------|---------|
| NPS 2 / DN50 | 368 | 371 | 368 | 216 | 47 | 430 | 280 | — | 70 kg | |
| NPS 2 1/2 / DN65 | 419 | 422 | 419 | 254 | 57 | 490 | 300 | — | 110 kg | |
| NPS 3 / DN80 | 470 | 473 | 470 | 305 | 69 | 540 | 350 | 680 | 310 | 175 kg |
| NPS 4 / DN100 | 546 | 549 | 546 | 406 | 92 | 650 | 400 | 810 | 310 | 270 kg |
| NPS 5 / DN125 | 673 | 676 | 673 | 483 | 125 | 780 | 450 | 920 | 310 | 378 kg |
| NPS 6 / DN150 | 705 | 711 | 705 | 559 | 136 | 835 | 500 | 1035 | 460 | 520 kg |
| NPS 8 / DN200 | 832 | 841 | 832 | 711 | 177 | 925 | 750 | 1180 | 530 | 820 kg |
| NPS 10 / DN250 | 991 | 1000 | 991 | 864 | 222 | 1230 | 900 | 1525 | 600 | 1560 kg |
| NPS 12 / DN300 | 1130 | 1146 | 1130 | 991 | 263 | — | — | 1620 | 600 | 2120 kg |
| NPS 14 / DN350 | 1257 | 1276 | 1257 | 1067 | 288 | — | — | 1905 | 600 | 3306 kg |
| NPS 16 / DN400 | 1384 | 1407 | 1384 | 1194 | 330 | — | — | 2050 | 600 | 3450 kg |
| NPS 2 / DN50 (Class 2500) | 451 | 454 | 451 | 279 | 38 | 490 | 280 | 580 | 310 | 100 kg |
| NPS 2 1/2 / DN65 (Class 2500) | 508 | 514 | 508 | 330 | 47 | 580 | 300 | 630 | 310 | 150 kg |
| NPS 3 / DN80 (Class 2500) | 578 | 584 | 578 | 368 | 57 | 630 | 350 | 765 | 310 | 245 kg |
| NPS 4 / DN100 (Class 2500) | 673 | 683 | 673 | 457 | 72 | 725 | 400 | 850 | 310 | 390 kg |
| NPS 5 / DN125 (Class 2500) | 794 | 807 | 794 | 533 | 96 | 900 | 500 | 960 | 460 | 550 kg |
| NPS 6 / DN150 (Class 2500) | 914 | 927 | 914 | 610 | 111 | 1040 | 600 | 1100 | 530 | 780 kg |
| NPS 8 / DN200 (Class 2500) | 1022 | 1038 | 1022 | 762 | 146 | 1150 | 750 | 1150 | 460 | 1260 kg |
| NPS 10 / DN250 (Class 2500) | 1270 | 1292 | 1270 | 914 | 184 | 1400 | 900 | 1460 | 600 | 2380 kg |
| NPS 12 / DN300 (Class 2500) | 1422 | 1445 | 1422 | 1041 | 218 | — | — | 1660 | 600 | 3250 kg |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Floating Ball Valve

REF **EFC-217** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | DN15 to DN250 |
| Pressure | Class 150, Class 300, Class 600, Class 900, Class 1500 |
| End connection | flanged (ANSI B16.5) / flanged (ANSI B16.5) / flanged (ANSI B16.5) / flanged (ANSI B16.5) / flanged (ANSI B16.5) / butt_weld (ANSI B16.25) |

ACTUATION

- manual lever
- manual handwheel / gear box
- pneumatic — other actuators available on request
- electric — other actuators available on request
- hydraulic — other actuators available on request



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|--------------|--|---------------|--|
| Body | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M | Packing | PTFE |
| Gland flange | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M | Stop collar | Carbon steel |
| Lever | Carbon steel | Thrust washer | PTFE |
| Stem | ASTM A182 F6a, ASTM A182 F304, ASTM A182 F316 | Ball | ASTM A182 F6a, ASTM A182 F304, ASTM A182 F316 |
| Seat | Reinforced PTFE | Gasket | PTFE |
| Body nut | ASTM A194 2H, ASTM A194 8, ASTM A194 8M | Body bolting | ASTM A193 B7, ASTM A193 B8, ASTM A193 B8M |
| Closure | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M | | |

FEATURES

- Elastic sealing ring design provides seat seal load proportional to medium pressure
- Fire-safe secondary metal seal prevents internal and external leakage in the event of non-metallic seat seal damage by fire; meets API607 requirement
- Anti-blowout stem assembled from underneath with backseat; sealing force increases with medium pressure
- Lockable lever to prevent wrong operation in fully open or closed position
- Anti-static device available to derive electric charge accumulated on the ball via static channel between ball and stem, or stem and body
- Two-piece bolted bonnet body construction
- Full or reduced bore options available
- Stainless steel ball as standard

OPTIONS & NOTES

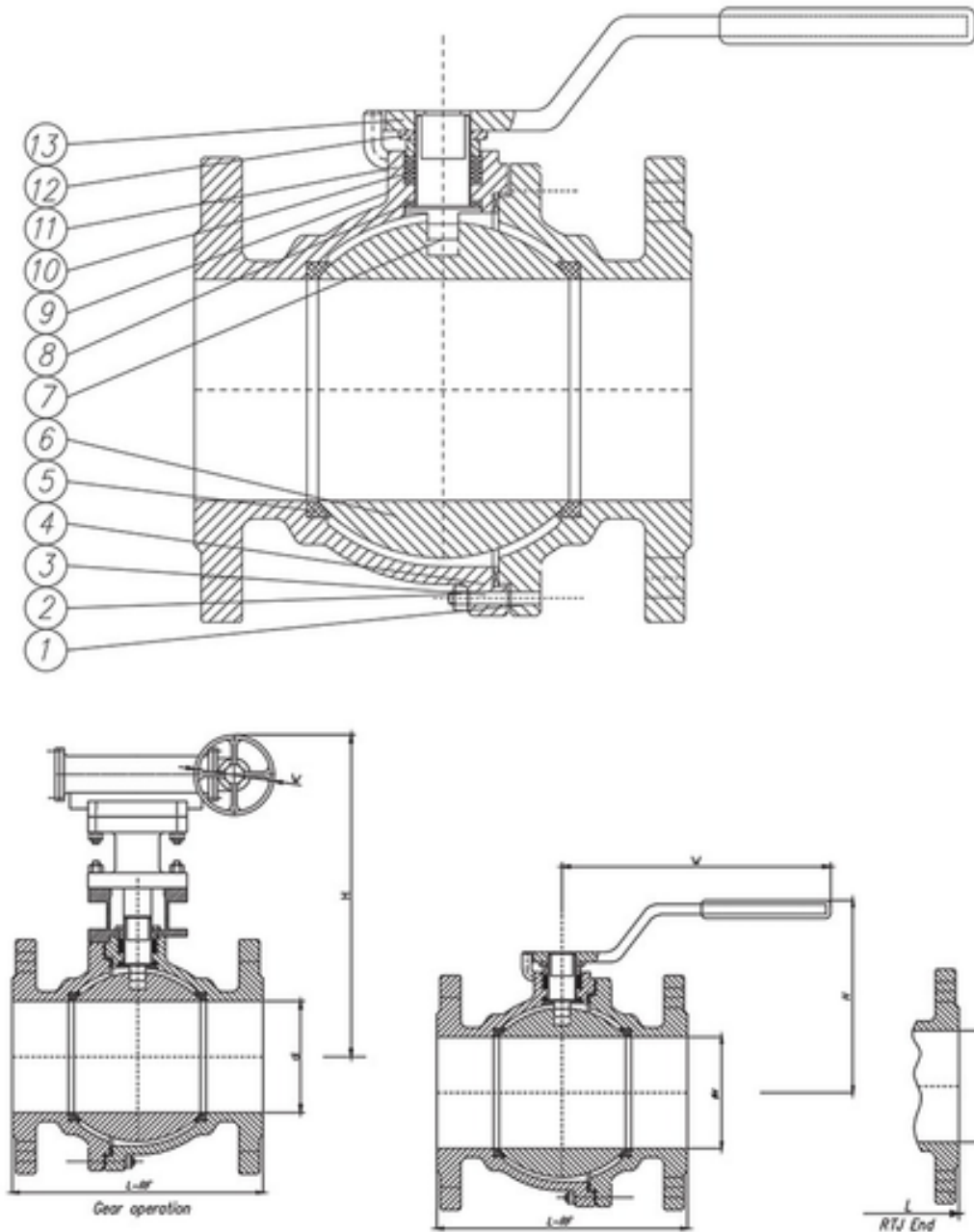
- Noted: the chart above only lists out some common composition of steel ball valve parts, we may provide other different parts material composition according to the customer's request or the actual valve working condition.
- Noted: We may provide other different actuators according to the customer's request, such as pneumatic, electric, hydraulic actuators, the details of them according to the actual valve working condition.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Floating Ball Valve

SECTION Technical drawing 1 REF EFC-217



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Floating Ball Valve

SECTION Dimensions per size REF EFC-217

| SIZE | D | L_RF | L_RTJ | H_HAND- WHEEL | W_HAND- WHEEL | H_GEAR- BOX | W_GEAR- BOX | WEIGHT_GEAR- BOX | WEIGHT |
|---|-----|------|-------|------------------|------------------|----------------|----------------|---------------------|---------|
| Class 150 / DN15 (NPS 1/2) | 13 | 108 | 119 | 140 | 85 | — | — | — | 3 kg |
| Class 150 / DN20 (NPS 3/4) | 19 | 117 | 130 | 140 | 90 | — | — | — | 3.2 kg |
| Class 150 / DN25 (NPS 1) | 25 | 127 | 140 | 150 | 99 | — | — | — | 3.5 kg |
| Class 150 / DN32 (NPS 1-1/4) | 32 | 140 | 153 | 180 | 105 | — | — | — | 5 kg |
| Class 150 / DN40 (NPS 1-1/2) | 38 | 165 | 178 | 300 | 165 | — | — | — | 6 kg |
| Class 150 / DN50 (NPS 2) | 49 | 178 | 191 | 350 | 140 | — | — | — | 11 kg |
| Class 150 / DN65 (NPS 2-1/2) | 62 | 190 | 203 | 350 | 180 | — | — | — | 13.5 kg |
| Class 150 / DN80 (NPS 3) | 75 | 203 | 216 | 500 | 235 | — | — | — | 19 kg |
| Class 150 / DN100 (NPS 4) | 100 | 229 | 242 | 500 | 250 | 305 | 380 | 53 kg | 29 kg |
| Class 150 / DN125 (NPS 5) | 127 | 356 | 369 | 800 | 280 | 305 | 405 | 79 kg | 49 kg |
| Class 150 / DN150 (NPS 6) | 150 | 394 | 407 | 800 | 310 | 305 | 460 | 102 kg | 65 kg |
| Class 150 / DN200 (NPS 8) | 201 | 457 | 470 | 1000 | 350 | 305 | 550 | 185 kg | 115 kg |
| Class 150 / DN250 (NPS 10) | 252 | 533 | 546 | — | — | 400 | 706 | — | 280 kg |
| Class 300 / DN15 (NPS 1/2) | 13 | 140 | 151 | 140 | 85 | — | — | — | 3 kg |
| Class 300 / DN20 (NPS 3/4) | 19 | 152 | 165 | 140 | 90 | — | — | — | 5 kg |
| Class 300 / DN25 (NPS 1) | 25 | 165 | 178 | 150 | 99 | — | — | — | 6 kg |
| Class 300 / DN32 (NPS 1-1/4) | 32 | 178 | 191 | 180 | 105 | — | — | — | 8 kg |
| Class 300 / DN40 (NPS 1-1/2) | 38 | 190 | 203 | 200 | 126 | — | — | — | 11 kg |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

| | | | | | | | | | |
|-------------------------------------|-----|-----|-----|------|-----|-----|-----|--------|--------|
| Class 300 / DN50 (NPS 2) | 49 | 216 | 232 | 250 | 142 | — | — | — | 16 kg |
| Class 300 / DN65 (NPS 2-1/2) | 62 | 241 | 257 | 300 | 165 | — | — | — | 23 kg |
| Class 300 / DN80 (NPS 3) | 74 | 283 | 299 | 350 | 178 | — | — | 52 kg | 30 kg |
| Class 300 / DN100 (NPS 4) | 100 | 305 | 321 | 500 | 230 | 305 | 330 | 76 kg | 47 kg |
| Class 300 / DN125 (NPS 5) | 127 | 381 | 397 | 800 | 280 | 305 | 380 | 124 kg | 74 kg |
| Class 300 / DN150 (NPS 6) | 150 | 403 | 419 | 800 | 310 | 305 | 420 | 163 kg | 107 kg |
| Class 300 / DN200 (NPS 8) | 201 | 502 | 518 | 1000 | 350 | 305 | 480 | 267 kg | 153 kg |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API Floating Ball Valve

Dimensions per size (continued) · EFC-217

| SIZE | D | L_RF | L_RTJ | H_HAND- WHEEL | W_HAND- WHEEL | H_GEAR- BOX | W_GEAR- BOX | WEIGHT_GEAR- BOX | WEIGHT |
|--|-----|------|-------|------------------|------------------|----------------|----------------|---------------------|--------|
| Class 600 / DN15 (NPS 1/2) | 13 | 165 | 164 | 140 | 79 | — | 560 | — | 5 kg |
| Class 600 / DN20 (NPS 3/4) | 19 | 190 | 190 | 140 | 83 | — | — | — | 7 kg |
| Class 600 / DN25 (NPS 1) | 25 | 216 | 216 | 200 | 114 | — | — | — | 9 kg |
| Class 600 / DN32 (NPS 1-1/4) | 32 | 229 | 229 | 200 | 120 | — | — | — | 13 kg |
| Class 600 / DN40 (NPS 1-1/2) | 38 | 241 | 241 | 250 | 125 | — | — | — | 17 kg |
| Class 600 / DN50 (NPS 2) | 49 | 292 | 295 | 300 | 156 | — | — | — | 25 kg |
| Class 600 / DN65 (NPS 2-1/2) | 62 | 330 | 333 | 350 | 172 | — | — | — | 42 kg |
| Class 600 / DN80 (NPS 3) | 74 | 356 | 359 | 500 | 220 | 305 | 370 | 76 kg | 56 kg |
| Class 600 / DN100 (NPS 4) | 100 | 432 | 435 | 650 | 250 | 305 | 400 | 123 kg | 85 kg |
| Class 900 / DN15 (NPS 1/2) | 13 | 216 | 216 | 150 | 98 | — | — | — | 9 kg |
| Class 900 / DN20 (NPS 3/4) | 19 | 229 | 229 | 150 | 105 | — | — | — | 13 kg |
| Class 900 / DN25 (NPS 1) | 25 | 254 | 254 | 200 | 110 | — | — | — | 16 kg |
| Class 900 / DN32 (NPS 1-1/4) | 32 | 279 | 279 | 250 | 120 | — | — | — | 24 kg |
| Class 900 / DN40 (NPS 1-1/2) | 38 | 305 | 305 | 250 | 125 | — | — | — | 31 kg |
| Class 900 / DN50 (NPS 2) | 49 | 368 | 371 | 350 | 160 | — | — | — | 45 kg |
| Class 1500 / DN15 (NPS 1/2) | 13 | 216 | 216 | 182 | 98 | — | — | — | 10 kg |
| Class 1500 / DN20 (NPS 3/4) | 19 | 229 | 229 | 250 | 125 | — | — | — | 14 kg |
| Class 1500 / DN25 (NPS 1) | 25 | 254 | 254 | 250 | 130 | — | — | — | 17 kg |
| Class 1500 / DN32 (NPS 1-1/4) | 32 | 279 | 279 | 300 | 155 | — | — | — | 25 kg |
| | 38 | 305 | 305 | 350 | 180 | — | — | — | 33 kg |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

**Class 1500 /
DN40 (NPS 1-1/2)**

| | | | | | | | | | |
|--------------------------------------|----|-----|-----|-----|-----|---|---|---|-------|
| Class 1500 / DN50 (NPS 2) | 49 | 368 | 371 | 450 | 225 | — | — | — | 48 kg |
|--------------------------------------|----|-----|-----|-----|-----|---|---|---|-------|

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

API VALVE

API Trunnion Ball Valve

REF **EFC-218** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN100 to DN900 |
| Pressure | Class 150, Class 300 |
| End connection | flanged (ANSI B16.5) / butt_weld (ANSI B16.25) / flanged (ANSI B16.5) / butt_weld (ANSI B16.25) |

ACTUATION

- gear handwheel — Carbon Steel/Gray Iron gear
- pneumatic — available on request
- electric — available on request
- hydraulic — available on request

CERTIFICATIONS

- Firesafe



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|--------------|---|----------------|---|
| Body | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M | O ring item 10 | Viton |
| Stem | ASTM A182 F6a, ASTM A182 F304, ASTM A182 F316 | Gland | ASTM A105, ASTM A182 F304, ASTM A182 F316 |
| Gear | Carbon Steel, Gray Iron | Ball | ASTM A182 F6a, ASTM A182 F304, ASTM A182 F316 |
| Seat | Reinforced PTFE | O ring item 14 | Viton |
| Seat ring | ASTM A105, ASTM A182 F304, ASTM A182 F316 | Spring | SS304 or Inconel 750, SS316 or Inconel 750 |
| Body bolting | ASTM A193 B7, ASTM A193 B8 | Body nut | ASTM A194 2H, ASTM A194 8 |
| Cover item 8 | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M | Gasket | PTFE |
| Low trunnion | ASTM A105, ASTM A182 F304, ASTM A182 F316 | Cover item 12 | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M |

FEATURES

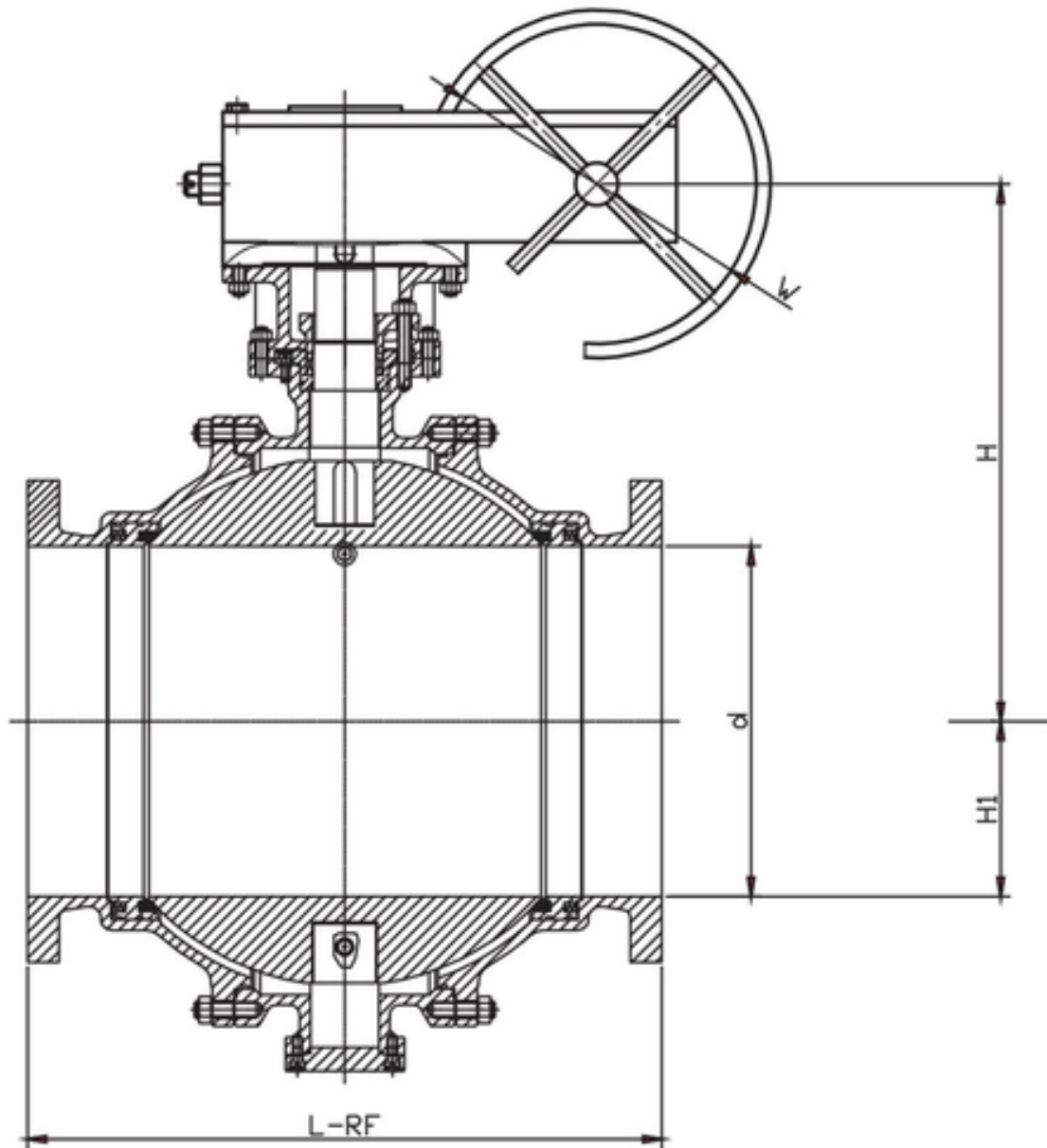
- Bolted cover construction
- Two-piece or three-piece body
- Anti-blowout stem
- Fire-safe design
- Anti-static design
- Trunnion-mounted ball
- Reinforced PTFE seats
- Available in multiple body material configurations including WCB/13Cr, WCB/304, WCB/316, CF8/304, CF8M/316

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Trunnion Ball Valve

SECTION Technical drawing 1 REF EFC-218



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

EFC-218 · Specifications confirmed at quote

sales@euroflowcontrol.com · euroflowcontrol.com

API VALVE

API Trunnion Ball Valve

SECTION Dimensions per size REF EFC-218

| SIZE | L_RF | L_BW | D | H | H1 | W | WEIGHT |
|---------------------------------------|------|------|-----|------|-----|-----|---------|
| Class 150 / DN100 (NPS 4) | 229 | 305 | 100 | 250 | 135 | 300 | 60 kg |
| Class 150 / DN125 (NPS 5) | 356 | 381 | 127 | 260 | 165 | 300 | 80 kg |
| Class 150 / DN150 (NPS 6) | 394 | 457 | 150 | 285 | 193 | 400 | 101 kg |
| Class 150 / DN200 (NPS 8) | 457 | 521 | 201 | 325 | 240 | 400 | 166 kg |
| Class 150 / DN250 (NPS 10) | 533 | 559 | 252 | 370 | 293 | 500 | 283 kg |
| Class 150 / DN300 (NPS 12) | 610 | 635 | 303 | 415 | 340 | 500 | 463 kg |
| Class 150 / DN350 (NPS 14) | 686 | 762 | 334 | 455 | 372 | 600 | 622 kg |
| Class 150 / DN400 (NPS 16) | 762 | 838 | 385 | 500 | 415 | 600 | 900 kg |
| Class 150 / DN450 (NPS 18) | 864 | 914 | 436 | 540 | 462 | 600 | 1150 kg |
| Class 150 / DN500 (NPS 20) | 914 | 991 | 487 | 590 | 511 | 600 | 1360 kg |
| Class 150 / DN600 (NPS 24) | 1067 | 1143 | 589 | 680 | 601 | 600 | 2514 kg |
| Class 150 / DN650 (NPS 26) | 1143 | 1245 | 633 | 800 | 700 | 600 | 3200 kg |
| Class 150 / DN700 (NPS 28) | 1245 | 1346 | 684 | 960 | 780 | 700 | 4000 kg |
| Class 150 / DN750 (NPS 30) | 1295 | 1397 | 735 | 1200 | 830 | 700 | 4800 kg |
| Class 150 / DN800 (NPS 32) | 1372 | 1524 | 779 | 1380 | 870 | 700 | 5800 kg |
| Class 150 / DN900 (NPS 36) | 1524 | 1727 | 874 | 1650 | 970 | 700 | 8000 kg |
| Class 300 / DN100 (NPS 4) | 305 | 305 | 100 | 205 | 140 | 300 | 70 kg |
| Class 300 / DN125 (NPS 5) | 381 | 381 | 127 | 260 | 170 | 300 | 95 kg |
| | 403 | 457 | 150 | 285 | 192 | 400 | 128 kg |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

**Class 300 / DN150
(NPS 6)**

| | | | | | | | |
|---------------------------------------|-----|-----|-----|-----|-----|-----|---------|
| Class 300 / DN200 (NPS 8) | 502 | 521 | 201 | 325 | 246 | 400 | 234 kg |
| Class 300 / DN250 (NPS 10) | 568 | 559 | 252 | 370 | 303 | 500 | 403 kg |
| Class 300 / DN300 (NPS 12) | 648 | 635 | 303 | 415 | 348 | 500 | 602 kg |
| Class 300 / DN350 (NPS 14) | 762 | 762 | 334 | 455 | 378 | 600 | 803 kg |
| Class 300 / DN400 (NPS 16) | 838 | 838 | 385 | 500 | 429 | 600 | 1273 kg |
| Class 300 / DN450 (NPS 18) | 914 | 914 | 436 | 540 | 518 | 600 | 1450 kg |
| Class 300 / DN500 (NPS 20) | 991 | 991 | 487 | 590 | 540 | 600 | 1700 kg |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API Trunnion Ball Valve

Dimensions per size (continued) · EFC-218

| SIZE | L_RF | L_BW | D | H | H1 | W | WEIGHT |
|---------------------------------------|------|------|-----|------|------|-----|----------|
| Class 300 / DN600 (NPS 24) | 1143 | 1143 | 589 | 690 | 650 | 600 | 3100 kg |
| Class 300 / DN650 (NPS 26) | 1245 | 1245 | 633 | 800 | 750 | 700 | 4500 kg |
| Class 300 / DN700 (NPS 28) | 1346 | 1346 | 684 | 960 | 800 | 700 | 6000 kg |
| Class 300 / DN750 (NPS 30) | 1397 | 1397 | 735 | 1200 | 860 | 700 | 7500 kg |
| Class 300 / DN800 (NPS 32) | 1524 | 1524 | 779 | 1380 | 900 | 800 | 9000 kg |
| Class 300 / DN900 (NPS 36) | 1727 | 1727 | 874 | 1650 | 1020 | 800 | 12000 kg |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

API VALVE

API Trunnion Ball Valve

REF **EFC-219** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN40 to DN600 |
| Pressure | Class 600, Class 900, Class 1500, Class 2500 |
| End connection | flanged (ASME/ANSI) / butt_weld (ASME/ANSI) / flanged (ASME/ANSI) / butt_weld (ASME/ANSI) / flanged (ASME/ANSI) / butt_weld (ASME/ANSI) / flanged (ASME/ANSI) / butt_weld (ASME/ANSI) |



STANDARDS

| | |
|--------|------------|
| Design | API |
|--------|------------|

FEATURES

- Raised face (RF) flange end connection option
- Ring-type joint (RTJ) flange end connection option
- Butt-weld (BW) end connection option
- Trunnion-mounted ball design

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Trunnion Ball Valve

SECTION Dimensions per size REF EFC-219

| SIZE | L_RF | L_RTJ | L_BW | D | H | H1 | W | WEIGHT |
|-------------------------------------|------|-------|------|-----|------|-----|-----|---------|
| DN50 (NPS 2) Class 600 | 292 | 295 | 292 | 49 | 140 | 94 | 300 | 32 kg |
| DN65 (NPS 2½) Class 600 | 330 | 333 | 330 | 62 | 155 | 115 | 300 | 47 kg |
| DN80 (NPS 3) Class 600 | 356 | 359 | 356 | 74 | 190 | 136 | 300 | 68 kg |
| DN100 (NPS 4) Class 600 | 432 | 435 | 432 | 100 | 220 | 152 | 300 | 106 kg |
| DN125 (NPS 5) Class 600 | 508 | 511 | 508 | 127 | 245 | 180 | 300 | 170 kg |
| DN150 (NPS 6) Class 600 | 559 | 562 | 559 | 150 | 300 | 209 | 400 | 241 kg |
| DN200 (NPS 8) Class 600 | 660 | 664 | 660 | 201 | 345 | 263 | 600 | 444 kg |
| DN250 (NPS 10) Class 600 | 787 | 791 | 787 | 252 | 405 | 312 | 600 | 668 kg |
| DN300 (NPS 12) Class 600 | 838 | 841 | 838 | 303 | 445 | 354 | 600 | 1050 kg |
| DN350 (NPS 14) Class 600 | 889 | 892 | 889 | 334 | 505 | 389 | 600 | 1317 kg |
| DN400 (NPS 16) Class 600 | 991 | 994 | 991 | 385 | 580 | 440 | 700 | 1800 kg |
| DN450 (NPS 18) Class 600 | 1092 | 1095 | 1092 | 436 | 700 | 530 | 700 | 2400 kg |
| DN500 (NPS 20) Class 600 | 1194 | 1200 | 1194 | 487 | 890 | 560 | 700 | 3000 kg |
| DN600 (NPS 24) Class 600 | 1397 | 1407 | 1397 | 538 | 1050 | 670 | 800 | 5400 kg |
| DN50 (NPS 2) Class 900 | 368 | 371 | 368 | 49 | 170 | 98 | 300 | 45 kg |
| DN65 (NPS 2½) Class 900 | 419 | 422 | 419 | 62 | 195 | 120 | 300 | 55 kg |
| DN80 (NPS 3) Class 900 | 381 | 384 | 381 | 74 | 220 | 140 | 350 | 94 kg |
| DN100 (NPS 4) Class 900 | 457 | 460 | 457 | 100 | 245 | 162 | 350 | 141 kg |
| | 559 | 562 | 559 | 127 | 305 | 188 | 400 | 230 kg |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

**DN125 (NPS 5)
Class 900**

| | | | | | | | | |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|--------|
| DN150 (NPS 6) Class 900 | 610 | 613 | 610 | 150 | 335 | 213 | 400 | 325 kg |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|--------|

| | | | | | | | | |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|--------|
| DN200 (NPS 8) Class 900 | 737 | 740 | 737 | 201 | 370 | 270 | 600 | 580 kg |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|--------|

| | | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|--------|
| DN250 (NPS 10) Class 900 | 838 | 841 | 838 | 252 | 475 | 322 | 600 | 850 kg |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|--------|

| | | | | | | | | |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|---------|
| DN300 (NPS 12) Class 900 | 965 | 968 | 965 | 303 | 590 | 360 | 700 | 1330 kg |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|---------|

| | | | | | | | | |
|-------------------------------------|------|------|------|-----|-----|-----|-----|---------|
| DN350 (NPS 14) Class 900 | 1029 | 1038 | 1029 | 322 | 700 | 400 | 700 | 1660 kg |
|-------------------------------------|------|------|------|-----|-----|-----|-----|---------|

| | | | | | | | | |
|-------------------------------------|------|------|------|-----|-----|-----|-----|---------|
| DN400 (NPS 16) Class 900 | 1130 | 1140 | 1130 | 372 | 850 | 460 | 800 | 2280 kg |
|-------------------------------------|------|------|------|-----|-----|-----|-----|---------|

| | | | | | | | | |
|-------------------------------------|-----|-----|-----|----|-----|-----|-----|-------|
| DN40 (NPS 1½) Class 1500 | 305 | 305 | 305 | 38 | 280 | 100 | 300 | 44 kg |
|-------------------------------------|-----|-----|-----|----|-----|-----|-----|-------|

| | | | | | | | | |
|------------------------------------|-----|-----|-----|----|-----|-----|-----|-------|
| DN50 (NPS 2) Class 1500 | 368 | 371 | 368 | 49 | 320 | 113 | 300 | 67 kg |
|------------------------------------|-----|-----|-----|----|-----|-----|-----|-------|

API Trunnion Ball Valve

Dimensions per size (continued) · EFC-219

| SIZE | L_RF | L_RTJ | L_BW | D | H | H1 | W | WEIGHT |
|--------------------------------------|------|-------|------|-----|-----|-----|-----|---------|
| DN65 (NPS 2½) Class 1500 | 419 | 422 | 419 | 64 | 340 | 125 | 300 | 80 kg |
| DN80 (NPS 3) Class 1500 | 470 | 473 | 470 | 74 | 385 | 138 | 300 | 130 kg |
| DN100 (NPS 4) Class 1500 | 546 | 549 | 546 | 100 | 415 | 171 | 300 | 192 kg |
| DN125 (NPS 5) Class 1500 | 673 | 676 | 673 | 125 | 480 | 200 | 400 | 335 kg |
| DN150 (NPS 6) Class 1500 | 705 | 711 | 705 | 144 | 580 | 222 | 400 | 475 kg |
| DN200 (NPS 8) Class 1500 | 832 | 841 | 832 | 192 | 584 | 280 | 400 | 820 kg |
| DN250 (NPS 10) Class 1500 | 991 | 1000 | 991 | 239 | 650 | 340 | 500 | 1320 kg |
| DN300 (NPS 12) Class 1500 | 1130 | 1146 | 1130 | 287 | 700 | 370 | 600 | 2050 kg |
| DN40 (NPS 1½) Class 2500 | 384 | 387 | 384 | 38 | 290 | 105 | 300 | 72 kg |
| DN50 (NPS 2) Class 2500 | 451 | 454 | 451 | 42 | 320 | 120 | 300 | 104 kg |
| DN65 (NPS 2½) Class 2500 | 508 | 514 | 508 | 52 | 350 | 130 | 300 | 140 kg |
| DN80 (NPS 3) Class 2500 | 578 | 584 | 578 | 62 | 400 | 150 | 300 | 202 kg |
| DN100 (NPS 4) Class 2500 | 673 | 683 | 673 | 87 | 425 | 180 | 400 | 305 kg |
| DN125 (NPS 5) Class 2500 | 794 | 807 | 794 | 100 | 500 | 210 | 400 | 530 kg |
| DN150 (NPS 6) Class 2500 | 914 | 927 | 914 | 131 | 590 | 230 | 500 | 760 kg |
| DN200 (NPS 8) Class 2500 | 1022 | 1038 | 1022 | 179 | 610 | 290 | 500 | 1200 kg |
| DN250 (NPS 10) Class 2500 | 1270 | 1292 | 1270 | 223 | 660 | 350 | 600 | 2080 kg |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Globe Valve

REF **EFC-221** ISSUED **08 Jul 2026**

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 1/2 to NPS 20 |
| Pressure | Class 300 |
| End connection | flanged (RF (Raised Face)) / flanged (RTJ (Ring Type Joint)) / butt-weld |

ACTUATION

- gear operation
- pneumatic — details according to actual valve working condition
- electric — details according to actual valve working condition
- hydraulic — details according to actual valve working condition

STANDARDS

| | |
|--------|------------|
| Design | API |
|--------|------------|

MATERIALS

| | |
|------|-------------------|
| Body | Cast Steel |
|------|-------------------|

OPTIONS & NOTES

- We may provide other different actuators according to the customer's request, such as pneumatic, electric, hydraulic actuators, the details of them according to the actual valve working condition.

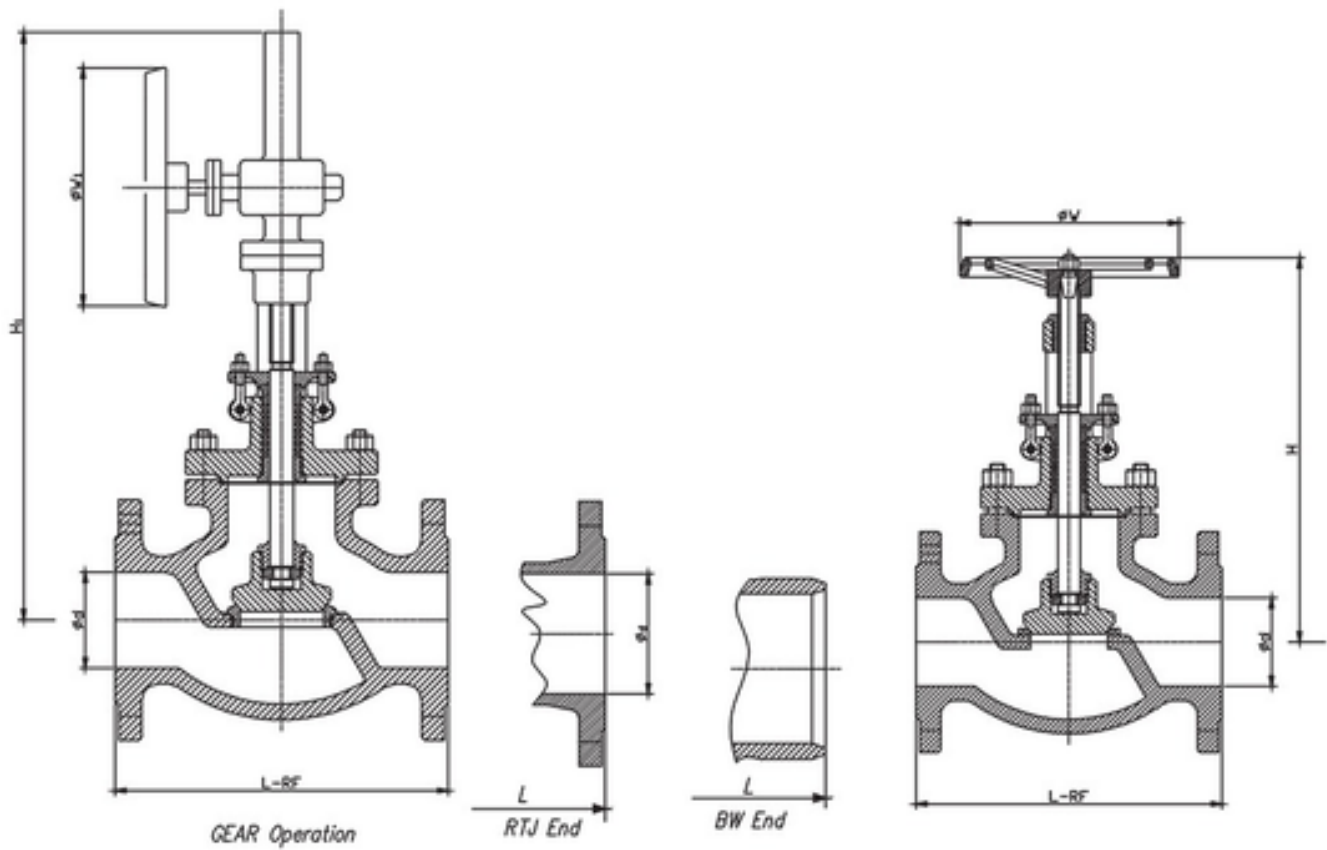


Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Globe Valve

SECTION Technical drawing 1 REF EFC-221



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

EFC-221 · Specifications confirmed at quote

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API VALVE

API Globe Valve

SECTION Dimensions per size REF EFC-221

| SIZE | DN | L_RF | L_RTJ | L_BW | D | H | W | H1 | W1 | WEIGHT |
|-----------|-----|------|-------|------|-----|------|-----|------|-----|--------|
| NPS 1/2 | 15 | 152 | 164 | 152 | 13 | 184 | 120 | — | — | 5 kg |
| NPS 3/4 | 20 | 178 | 191 | 178 | 19 | 226 | 160 | — | — | 6.5 kg |
| NPS 1 | 25 | 203 | 216 | 203 | 25 | 233 | 160 | — | — | 9 kg |
| NPS 1 1/4 | 32 | 216 | 229 | 216 | 32 | 253 | 160 | — | — | 12 kg |
| NPS 1 1/2 | 40 | 229 | 241 | 229 | 38 | 273 | 160 | — | — | 16 kg |
| NPS 2 | 50 | 267 | 283 | 267 | 51 | 346 | 200 | — | — | 29 kg |
| NPS 2 1/2 | 65 | 292 | 308 | 292 | 64 | 390 | 250 | — | — | 44 kg |
| NPS 3 | 80 | 318 | 333 | 318 | 76 | 403 | 280 | — | — | 59 kg |
| NPS 4 | 100 | 356 | 371 | 356 | 102 | 474 | 350 | — | — | 87 kg |
| NPS 5 | 125 | 400 | 416 | 400 | 127 | 540 | 350 | — | — | 181 kg |
| NPS 6 | 150 | 444 | 460 | 444 | 152 | 635 | 450 | 690 | 310 | — |
| NPS 8 | 200 | 559 | 575 | 559 | 203 | 870 | 550 | 950 | 460 | — |
| NPS 10 | 250 | 622 | 638 | 622 | 254 | 950 | 600 | 990 | 460 | — |
| NPS 12 | 300 | 711 | 727 | 711 | 305 | 1030 | 700 | 1155 | 460 | — |
| NPS 14 | 350 | 838 | — | — | 336 | — | — | 1155 | 600 | — |
| NPS 16 | 400 | 864 | — | — | 387 | — | — | 1325 | 600 | — |
| NPS 18 | 450 | 977 | — | — | 431 | — | 720 | 1473 | — | — |
| NPS 20 | 500 | 1016 | — | — | 482 | — | 720 | 1574 | — | — |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Globe Valve

REF **EFC-222** ISSUED **08 Jul 2026**

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 2 to NPS 12 |
| Pressure | Class 600 to Class 1500 |
| End connection | flanged (RF (Raised Face)) / flanged (RTJ (Ring Type Joint)) / butt-weld |

ACTUATION

- handwheel — H.W (Handwheel operation)
- gear operator — G.O (Gear Operation)
- pneumatic — Available on request per actual valve working condition
- electric — Available on request per actual valve working condition
- hydraulic — Available on request per actual valve working condition

STANDARDS

| | |
|--------|------------|
| Design | API |
|--------|------------|

FEATURES

- Available in Class 600, Class 900, and Class 1500 pressure ratings
- End connections available as raised face flanged (RF), ring type joint (RTJ), and butt-weld (BW)
- Gear operation available for larger sizes
- Multiple actuator types available on request

OPTIONS & NOTES

- We may provide other different actuators according to the customer's request, such as pneumatic, electric, hydraulic actuators, the details of them according to the actual valve working condition.

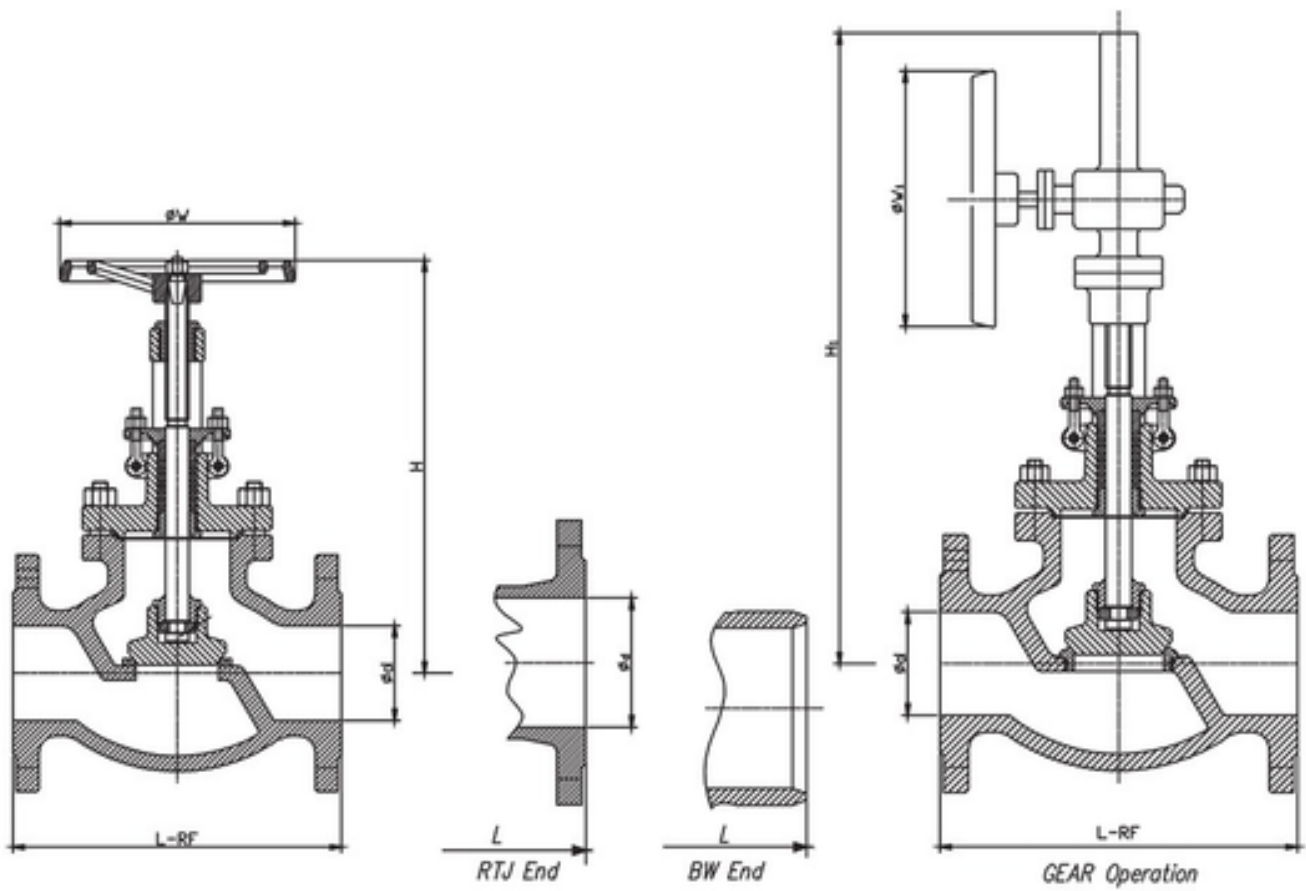


Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Globe Valve

SECTION Technical drawing 1 REF EFC-222



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

EFC-222 · Specifications confirmed at quote

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API VALVE

API Globe Valve

SECTION Dimensions per size REF EFC-222

| SIZE | L_RF | L_RTJ | L_BW | D | H | W | H1 | W1 | G.O KG | WEIGHT |
|------------------|------|-------|------|-----|------|-----|------|-----|---------|---------|
| NPS 2 / DN50 | 292 | 295 | 292 | 51 | 360 | 250 | — | — | — | 35 kg |
| NPS 2 1/2 / DN65 | 330 | 333 | 330 | 64 | 410 | 280 | — | — | — | 42 kg |
| NPS 3 / DN80 | 356 | 359 | 356 | 76 | 465 | 280 | — | — | — | 66 kg |
| NPS 4 / DN100 | 432 | 435 | 432 | 102 | 545 | 400 | 575 | 310 | 148 kg | 117 kg |
| NPS 5 / DN125 | 508 | 511 | 508 | 127 | 625 | 500 | 660 | 310 | 208 kg | 243 kg |
| NPS 6 / DN150 | 559 | 562 | 559 | 152 | 785 | 550 | 975 | 460 | 334 kg | 263 kg |
| NPS 8 / DN200 | 660 | 664 | 660 | 200 | 930 | 650 | 1120 | 460 | 544 kg | 469 kg |
| NPS 10 / DN250 | 787 | 791 | 787 | 248 | — | — | 1219 | 600 | 875 kg | — |
| NPS 12 / DN300 | 838 | 841 | 838 | 298 | — | — | 1570 | 600 | 1280 kg | — |
| NPS 2 / DN50 | 368 | 371 | 368 | 48 | 480 | 350 | — | — | — | 55 kg |
| NPS 2 1/2 / DN65 | 419 | 422 | 419 | 57 | 520 | 350 | — | — | — | 68 kg |
| NPS 3 / DN80 | 381 | 384 | 381 | 73 | 564 | 400 | 630 | 310 | 128 kg | 113 kg |
| NPS 4 / DN100 | 457 | 460 | 457 | 98 | 685 | 450 | 720 | 310 | 210 kg | 179 kg |
| NPS 5 / DN125 | 559 | 562 | 559 | 127 | 780 | 550 | 840 | 460 | 325 kg | 270 kg |
| NPS 6 / DN150 | 610 | 613 | 610 | 146 | 950 | 650 | 1015 | 460 | 480 kg | 429 kg |
| NPS 8 / DN200 | 737 | 740 | 737 | 190 | 1050 | 700 | — | — | 815 kg | — |
| NPS 2 / DN50 | 368 | 371 | 368 | 48 | 505 | 350 | — | — | — | 137 kg |
| NPS 2 1/2 / DN65 | 419 | 422 | 419 | 57 | 550 | 400 | — | — | — | 141 kg |
| NPS 3 / DN80 | 470 | 473 | 470 | 70 | 630 | 450 | 765 | 310 | 320 kg | 261 kg |
| NPS 4 / DN100 | 546 | 549 | 546 | 92 | 808 | 460 | 890 | 310 | 397 kg | 336 kg |
| NPS 6 / DN150 | 705 | 711 | 705 | 137 | 930 | 610 | 1020 | 530 | 1035 kg | 966 kg |
| NPS 8 / DN200 | 832 | 841 | 832 | 178 | 1140 | 610 | 1230 | 530 | 1280 kg | 1210 kg |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

ABI Forged Steel Globe Valve

REF **EFC-223** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | NPS 1/2" to NPS 2" |
| Pressure | Class 150 to Class 2500 |
| End connection | socket-weld (ASME B16.11) / threaded (ASME B1.20.1) |

ACTUATION

- manual handwheel

STANDARDS

| | |
|--------|----------------|
| Design | API 602 |
| Test | API 598 |



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|--------------|---|----------|---|
| Body | ASTM A105, ASTM A182F304, ASTM A182F316 | Disc | ASTM A105, ASTM A182F304, ASTM A182F316 |
| Stem | ASTM A182F6, ASTM A182F304, ASTM A182F316 | Bonnet | ASTM A105, ASTM A182F304, ASTM A182F316 |
| Gland flange | ASTM A105, ASTM A182F304, ASTM A182F316 | Stem nut | ASTM A276410 |
| Handwheel | ASTM A197 | | |

FEATURES

- Available in welded bonnet and bolted bonnet configurations
- Socket-welding and threaded end connection options
- Three material options: carbon steel (A105), F304 stainless steel, F316 stainless steel

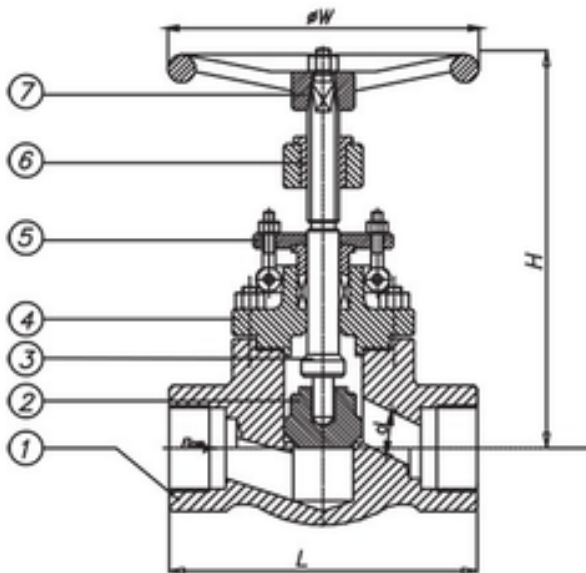
PRESSURE-TEMPERATURE RATING

| CLASS | TEMPERATURE | MAX PRESSURE |
|------------|-------------|--------------|
| Class 150 | °C | bar |
| Class 900 | °C | bar |
| Class 1500 | °C | bar |
| Class 2500 | °C | bar |

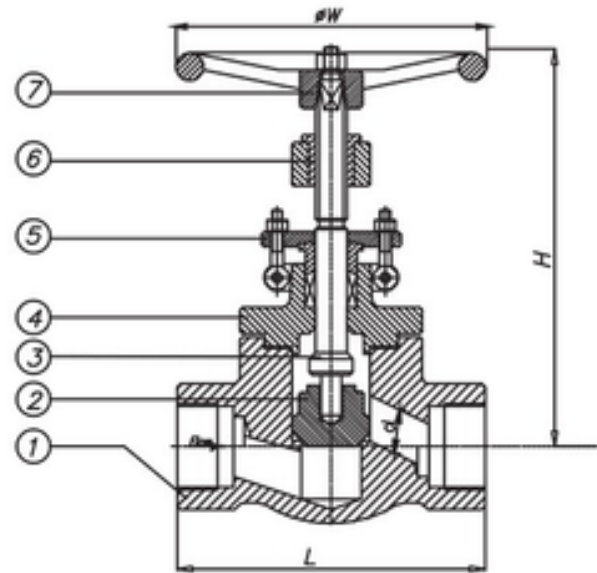
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

ABI Forged Steel Globe Valve

SECTION Technical drawing 1 REF EFC-223



*Welded Bonnet
Socket-welding End*



*Bolted Bonnet
Socket-welding End*

API VALVE

ABI Forged Steel Globe Valve

SECTION Dimensions per size REF EFC-223

| SIZE | L | D | H | W | WEIGHT |
|---|-----|------|-----|-----|---------|
| NPS 1/2" (DN15) Class 150-800 | 79 | 10 | 158 | 100 | 2 kg |
| NPS 3/4" (DN20) Class 150-800 | 92 | 13 | 158 | 100 | 2.2 kg |
| NPS 1" (DN25) Class 150-800 | 111 | 17.5 | 192 | 125 | 2.5 kg |
| NPS 1 1/4" (DN32) Class 150-800 | 120 | 23 | 227 | 160 | 5.5 kg |
| NPS 1 1/2" (DN40) Class 150-800 | 152 | 28.5 | 240 | 160 | 7 kg |
| NPS 2" (DN50) Class 150-800 | 172 | 35 | 279 | 180 | 11.5 kg |
| NPS 1/2" (DN15) Class 900-1500 | 92 | 10 | 187 | 125 | 3.5 kg |
| NPS 3/4" (DN20) Class 900-1500 | 111 | 13 | 187 | 125 | 4 kg |
| NPS 1" (DN25) Class 900-1500 | 120 | 17.5 | 227 | 160 | 6.3 kg |
| NPS 1 1/4" (DN32) Class 900-1500 | 152 | 23 | 242 | 160 | 8 kg |
| NPS 1 1/2" (DN40) Class 900-1500 | 172 | 28.5 | 278 | 180 | 12.5 kg |
| NPS 2" (DN50) Class 900-1500 | 220 | 35 | 325 | 200 | 19.5 kg |
| NPS 1/2" (DN15) Class 2500 | 150 | 11 | 293 | 160 | 10.8 kg |
| NPS 3/4" (DN20) Class 2500 | 150 | 11 | 293 | 160 | 12 kg |
| NPS 1" (DN25) Class 2500 | 170 | 14 | 344 | 200 | 13.5 kg |
| NPS 1 1/4" (DN32) Class 2500 | 200 | 16 | 383 | 250 | 18.5 kg |
| NPS 1 1/2" (DN40) Class 2500 | 200 | 25 | 383 | 250 | 22 kg |
| NPS 2" (DN50) Class 2500 | 250 | 28 | 442 | 300 | 37 kg |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Swing Check Valve

REF **EFC-224** ISSUED 08 Jul 2026

SPECIFICATIONS

End connection **flanged (ASME B16.5) / flanged (ASME B16.47A MSS SP-44) / flanged (ASME B16.47B API605) / butt-weld (ASME B16.25)**

Face-to-face **ASME B16.10**

STANDARDS

Design **BS 1868-1873, ASME B16.34, API6D**

Test **API598, API6D**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|----------|---|--------|---|
| Body | A216WCB, A352 LCB, A217 WC1, A217 WC6, A217 WC9, A217 C5, A351 CF8, A351 CF8M, A351 CF3, A351 CF3M | Bonnet | A216 WCB, A352 LCB, A217 WC1, A217 WC6, A217 WC9, A217 C5, A351 CF8, A351 CF8M, A351 CF3, A351 CF3M |
| Disc | A216 WCB, A352 LCB, A217 WC1, A217 WC6, A217 WC9, A217 C5, A351 CF8, A351 CF8M, A351 CF3, A351 CF3M | Hinge | A216 WCB, A352 LCB, A217 WC1, A217 WC6, A217 WC9, A217 C5, A351 CF8, A351 CF8M, A351 CF3, A351 CF3M |
| Bolt | A193 B7, A320 L7, A193 B16, A193 B8 | Nut | A194 2H, A194 4, A194 8 |
| Disc nut | A194 2H, 410, 304, 316, 304L, 316L | Gasket | SS Spiral Wound W, graphite, PTFE, Reinforced PTFE |
| Eye bolt | Steel | Yoke | A216 WCB, A352 LCB, A217 WC1, A217 WC6, A217 WC9, A217 C5, A351 CF8, A351 CF8M, A351 CF3, A351 CF3M |
| Seat | F6, F304, Stellite, Monel, F316, Alloy 20 | | |

FEATURES

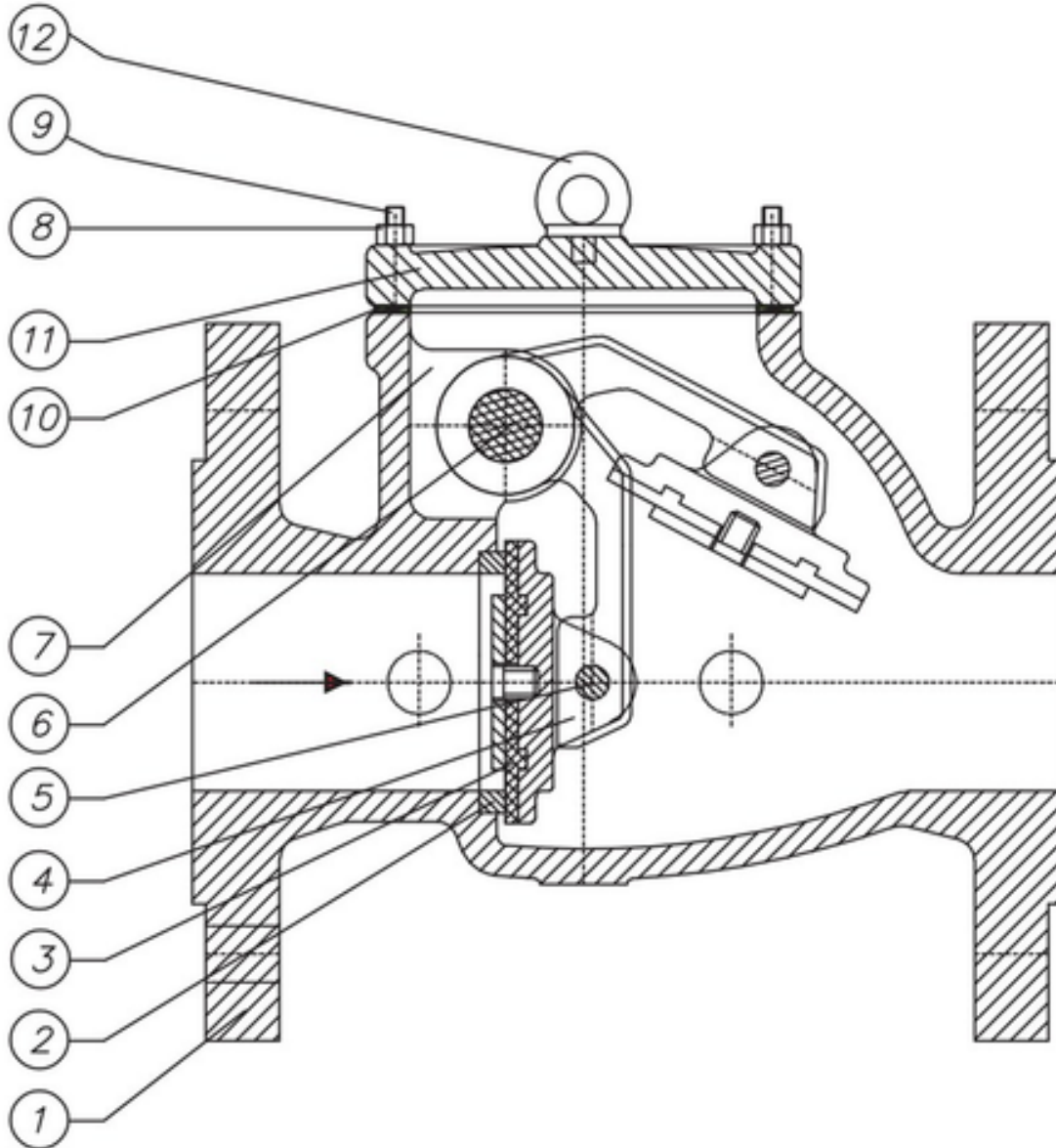
- Swing check mechanism with hinged disc
- Multiple trim code options (1, 2, 5, 8, 9, 10, 13) with varying seat ring, disc, and hinge pin surface materials
- Available in carbon steel, alloy steel, and stainless steel material configurations
- Wall thickness designed to API 600 and BS 1868
- Pressure-temperature ratings per ASME B16.34

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Swing Check Valve

SECTION Technical drawing 1 REF EFC-224



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Swing Check Valve

REF **EFC-226** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 2 to NPS 24 |
| Pressure | Class 600 to Class 2500 |
| End connection | flanged (RF (Raised Face)) / flanged (RTJ (Ring Type Joint)) / butt-weld |

STANDARDS

| | |
|--------|------------|
| Design | API |
|--------|------------|

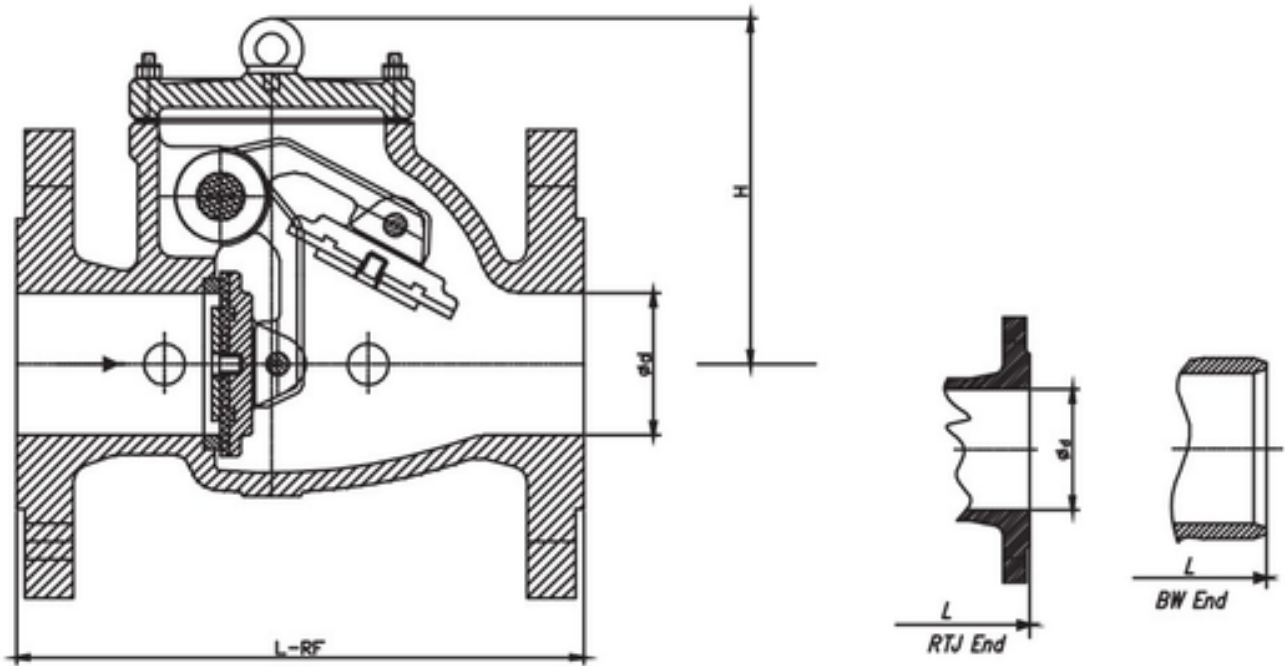


Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Swing Check Valve

SECTION Technical drawing 1 REF EFC-226



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

EFC-226 · Specifications confirmed at quote

sales@euroflowcontrol.com · euroflowcontrol.com

API VALVE

API Swing Check Valve

SECTION Dimensions per size REF EFC-226

| SIZE | L_RF | L_RTJ | L_BW | D | H | WEIGHT |
|---------------------------------|------|-------|------|-----|-----|--------|
| NPS 2 / DN50 (Class600) | 292 | 295 | 292 | 51 | 170 | 26 kg |
| NPS 2 / DN50 (Class900) | 368 | 371 | 368 | 51 | 183 | 26 kg |
| NPS 2 / DN50 (Class1500) | 368 | 371 | 368 | 48 | 265 | 26 kg |
| NPS 2 / DN50 (Class2500) | 451 | 454 | 451 | 38 | 285 | 26 kg |
| NPS 2 1/2 / DN65 (Class600) | 330 | 333 | 330 | 64 | 178 | 35 kg |
| NPS 2 1/2 / DN65 (Class900) | 419 | 422 | 419 | 64 | 220 | 35 kg |
| NPS 2 1/2 / DN65 (Class1500) | 419 | 422 | 419 | 57 | 240 | 35 kg |
| NPS 2 1/2 / DN65 (Class2500) | 508 | 514 | 508 | 48 | 305 | 35 kg |
| NPS 3 / DN80 (Class600) | 356 | 359 | 356 | 76 | 225 | 59 kg |
| NPS 3 / DN80 (Class900) | 381 | 384 | 381 | 73 | 280 | 59 kg |
| NPS 3 / DN80 (Class1500) | 470 | 473 | 470 | 70 | 303 | 59 kg |
| NPS 3 / DN80 (Class2500) | 578 | 584 | 578 | 57 | 350 | 59 kg |
| NPS 4 / DN100 (Class600) | 432 | 435 | 432 | 102 | 275 | 99 kg |
| NPS 4 / DN100 (Class900) | 457 | 460 | 457 | 98 | 315 | 99 kg |
| NPS 4 / DN100 (Class1500) | 546 | 549 | 546 | 92 | 340 | 99 kg |
| NPS 4 / DN100 (Class2500) | 673 | 683 | 673 | 73 | 410 | 99 kg |
| NPS 5 / DN125 (Class600) | 508 | 511 | 508 | 127 | 320 | 155 kg |
| NPS 5 / DN125 (Class900) | 559 | 562 | 559 | 127 | 360 | 155 kg |
| | 673 | 676 | 673 | 127 | 380 | 155 kg |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

NPS 5 / DN125
(Class1500)

| | | | | | | |
|--|-----|-----|-----|----|-----|--------|
| NPS 5 / DN125 (Class2500) | 794 | 807 | 794 | 96 | 490 | 155 kg |
|--|-----|-----|-----|----|-----|--------|

| | | | | | | |
|---|-----|-----|-----|-----|-----|--------|
| NPS 6 / DN150 (Class600) | 559 | 562 | 559 | 152 | 385 | 208 kg |
|---|-----|-----|-----|-----|-----|--------|

| | | | | | | |
|---|-----|-----|-----|-----|-----|--------|
| NPS 6 / DN150 (Class900) | 610 | 613 | 610 | 146 | 390 | 208 kg |
|---|-----|-----|-----|-----|-----|--------|

| | | | | | | |
|--|-----|-----|-----|-----|-----|--------|
| NPS 6 / DN150 (Class1500) | 705 | 711 | 705 | 137 | 430 | 208 kg |
|--|-----|-----|-----|-----|-----|--------|

| | | | | | | |
|--|-----|-----|-----|-----|-----|--------|
| NPS 6 / DN150 (Class2500) | 914 | 927 | 914 | 111 | 540 | 208 kg |
|--|-----|-----|-----|-----|-----|--------|

| | | | | | | |
|---|-----|-----|-----|-----|-----|--------|
| NPS 8 / DN200 (Class600) | 660 | 664 | 660 | 200 | 445 | 357 kg |
|---|-----|-----|-----|-----|-----|--------|

| | | | | | | |
|---|-----|-----|-----|-----|-----|--------|
| NPS 8 / DN200 (Class900) | 737 | 740 | 737 | 190 | 460 | 357 kg |
|---|-----|-----|-----|-----|-----|--------|

| | | | | | | |
|--|-----|-----|-----|-----|-----|--------|
| NPS 8 / DN200 (Class1500) | 832 | 841 | 832 | 178 | 500 | 357 kg |
|--|-----|-----|-----|-----|-----|--------|

API Swing Check Valve

Dimensions per size (continued) · EFC-226

| SIZE | L_RF | L_RTJ | L_BW | D | H | WEIGHT |
|--------------------------------------|------|-------|------|-----|------|---------|
| NPS 8 / DN200 (Class2500) | 1022 | 1038 | 1022 | 146 | 620 | 357 kg |
| NPS 10 / DN250 (Class600) | 787 | 791 | 787 | 248 | 500 | 561 kg |
| NPS 10 / DN250 (Class900) | 838 | 841 | 838 | 238 | 540 | 561 kg |
| NPS 10 / DN250 (Class1500) | 991 | 1000 | 991 | 222 | 605 | 561 kg |
| NPS 10 / DN250 (Class2500) | 1270 | 1292 | 1270 | 184 | 705 | 561 kg |
| NPS 12 / DN300 (Class600) | 838 | 841 | 838 | 298 | 570 | 752 kg |
| NPS 12 / DN300 (Class900) | 965 | 968 | 965 | 283 | 640 | 752 kg |
| NPS 12 / DN300 (Class1500) | 1130 | 1146 | 1130 | 264 | 785 | 752 kg |
| NPS 12 / DN300 (Class2500) | 1422 | 1445 | 1422 | 219 | 855 | 752 kg |
| NPS 14 / DN350 (Class600) | 889 | 892 | 889 | 327 | 590 | 889 kg |
| NPS 14 / DN350 (Class900) | 1029 | 1038 | 1029 | 311 | 680 | 889 kg |
| NPS 14 / DN350 (Class1500) | 1257 | 1276 | 1257 | 289 | 830 | 889 kg |
| NPS 16 / DN400 (Class600) | 991 | 994 | 991 | 375 | 650 | 1285 kg |
| NPS 16 / DN400 (Class900) | 1130 | 1140 | 1130 | 356 | 780 | 1285 kg |
| NPS 16 / DN400 (Class1500) | 1384 | 1407 | 1384 | 330 | 950 | 1285 kg |
| NPS 18 / DN450 (Class600) | 1092 | 1095 | 1092 | 419 | 778 | 1800 kg |
| NPS 18 / DN450 (Class900) | 1219 | 1232 | 1219 | 400 | 845 | 1800 kg |
| NPS 18 / DN450 (Class1500) | 1537 | 1559 | 1537 | 371 | 1080 | 1800 kg |
| NPS 20 / DN500 (Class600) | 1194 | 1200 | 1194 | 464 | 970 | 2150 kg |
| NPS 20 / DN500 (Class900) | 1321 | 1334 | 1321 | 444 | 1050 | 2150 kg |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

| | | | | | | |
|---------------------------------------|------|------|------|-----|------|---------|
| NPS 20 / DN500 (Class1500) | 1664 | 1686 | 1664 | 416 | 1145 | 2150 kg |
| NPS 24 / DN600 (Class600) | 1397 | 1407 | 1397 | 559 | 1100 | 3200 kg |
| NPS 24 / DN600 (Class900) | 1549 | 1568 | 1549 | 533 | 1200 | 3200 kg |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

API VALVE

API Butterfly Valve

REF **EFC-231** ISSUED **08 Jul 2026**

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 2 / DN50 to NPS 44 / DN1100 (Class 150); NPS 40 / DN1000 (Class 300) |
| Pressure | Class 150, Class 300 |
| End connection | flanged (ASME B16.5 / ASME B16.47) / flanged (ASME B16.5 / ASME B16.47) |

ACTUATION

- pneumatic — available on request according to actual valve working condition
- electric — available on request according to actual valve working condition
- hydraulic — available on request according to actual valve working condition

STANDARDS

| | |
|--------|------------|
| Design | API |
|--------|------------|

FEATURES

- Triple offset design
- Multi-layer sealing ring on disc
- Seat protection ring
- Flanged end connections

OPTIONS & NOTES

- Noted: We may provide other different actuators according to the customer's request, such as pneumatic, electric, hydraulic actuators, the details of them according to the actual valve working condition.

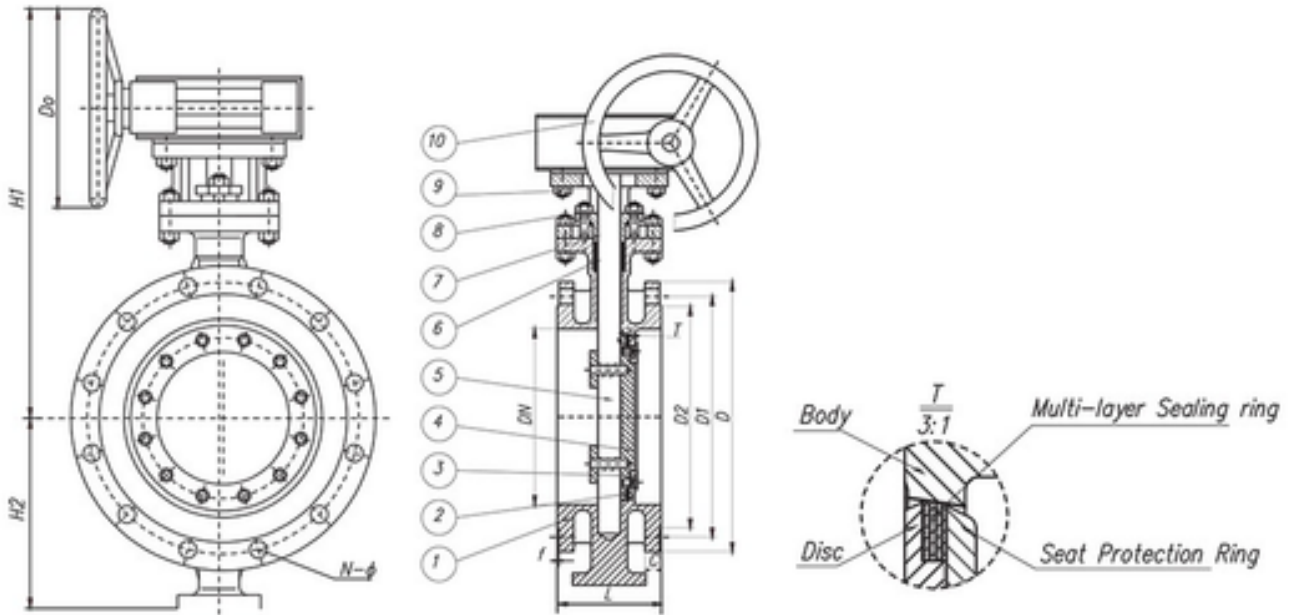


Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Butterfly Valve

SECTION Technical drawing 1 REF EFC-231



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Butterfly Valve

SECTION Dimensions per size REF EFC-231

| SIZE | L | H1 | H2 | D | WEIGHT |
|----------------------------|-----|------|-----|-----|---------|
| Class 150 NPS 2 / DN50 | 108 | 305 | 115 | 160 | 21 kg |
| Class 150 NPS 2 1/2 / DN65 | 112 | 315 | 125 | 160 | 24 kg |
| Class 150 NPS 3 / DN80 | 114 | 330 | 135 | 160 | 27 kg |
| Class 150 NPS 4 / DN100 | 127 | 360 | 140 | 160 | 28 kg |
| Class 150 NPS 5 / DN125 | 140 | 450 | 170 | 280 | 30 kg |
| Class 150 NPS 6 / DN150 | 140 | 475 | 175 | 280 | 50 kg |
| Class 150 NPS 8 / DN200 | 152 | 525 | 240 | 280 | 75 kg |
| Class 150 NPS 10 / DN250 | 165 | 570 | 270 | 280 | 105 kg |
| Class 150 NPS 12 / DN300 | 178 | 630 | 315 | 320 | 155 kg |
| Class 150 NPS 14 / DN350 | 190 | 675 | 345 | 350 | 190 kg |
| Class 150 NPS 16 / DN400 | 216 | 720 | 395 | 350 | 230 kg |
| Class 150 NPS 18 / DN450 | 222 | 805 | 405 | 350 | 300 kg |
| Class 150 NPS 20 / DN500 | 229 | 895 | 430 | 400 | 380 kg |
| Class 150 NPS 24 / DN600 | 267 | 950 | 500 | 400 | 490 kg |
| Class 150 NPS 26 / DN650 | 267 | 960 | 515 | 400 | 580 kg |
| Class 150 NPS 28 / DN700 | 292 | 1030 | 520 | 400 | 660 kg |
| Class 150 NPS 30 / DN750 | 308 | 1080 | 545 | 450 | 740 kg |
| Class 150 NPS 32 / DN800 | 318 | 1135 | 620 | 450 | 820 kg |
| Class 150 NPS 36 / DN900 | 330 | 1175 | 620 | 450 | 1100 kg |
| Class 150 NPS 40 / DN1000 | 410 | 1270 | 720 | 500 | 1430 kg |
| Class 150 NPS 44 / DN1100 | 450 | 1335 | 768 | 500 | 2200 kg |
| Class 300 NPS 2 / DN50 | 150 | 315 | 115 | 160 | 32 kg |
| Class 300 NPS 2 1/2 / DN65 | 170 | 325 | 125 | 160 | 39 kg |
| Class 300 NPS 3 / DN80 | 180 | 340 | 135 | 160 | 42 kg |
| Class 300 NPS 4 / DN100 | 190 | 435 | 140 | 160 | 45 kg |
| Class 300 NPS 5 / DN125 | 200 | 475 | 170 | 280 | 48 kg |
| Class 300 NPS 6 / DN150 | 210 | 510 | 220 | 280 | 80 kg |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API Butterfly Valve

Dimensions per size (continued) · EFC-231

| SIZE | L | H1 | H2 | D | WEIGHT |
|----------------------------------|-----|------|-----|-----|---------|
| Class 300 NPS 8 / DN200 | 230 | 520 | 240 | 280 | 120 kg |
| Class 300 NPS 10 / DN250 | 250 | 625 | 270 | 280 | 168 kg |
| Class 300 NPS 12 / DN300 | 270 | 670 | 320 | 350 | 248 kg |
| Class 300 NPS 14 / DN350 | 290 | 765 | 370 | 350 | 304 kg |
| Class 300 NPS 16 / DN400 | 310 | 840 | 410 | 350 | 368 kg |
| Class 300 NPS 18 / DN450 | 330 | 910 | 420 | 400 | 480 kg |
| Class 300 NPS 20 / DN500 | 350 | 980 | 460 | 400 | 608 kg |
| Class 300 NPS 24 / DN600 | 390 | 1080 | 540 | 400 | 784 kg |
| Class 300 NPS 26 / DN650 | 390 | 1130 | 585 | 450 | 928 kg |
| Class 300 NPS 28 / DN700 | 430 | 1175 | 640 | 450 | 1056 kg |
| Class 300 NPS 30 / DN750 | 430 | 1265 | 700 | 500 | 1184 kg |
| Class 300 NPS 32 / DN800 | 470 | 1300 | 765 | 500 | 1312 kg |
| Class 300 NPS 36 / DN900 | 510 | 1380 | 820 | 500 | 1760 kg |
| Class 300 NPS 40 / DN1000 | 550 | 1460 | 890 | 500 | 2288 kg |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

API VALVE

API Sleeve Type Soft Sealing Plug Valve

REF **EFC-233** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | NPS 1/2 to NPS 14 |
| Pressure | Class 150 to Class 300 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.5) / butt-weld (ASME B16.25) |
| Face-to-face | ASME B16.10, API 6D |

ACTUATION

- worm gear (handwheel) — Cast iron or Carbon Steel worm

STANDARDS

| | |
|--------|------------------------|
| Design | API 599, API 6D |
| Test | API 598 |



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|----------------|--|------------------|--|
| Body | A216 WCB, A352 LCB, A217 WCI, A217 WC6, A217 WC9, A217 C5, A351 CF8, A351 CF8M, A351 CF3, A351 CF3M | Sleeve | PTFE |
| Plug | A182 F6a, A182 F304, A182 F316, A182 F304L, A182 F316L | Bonnet | A216 WCB, A352 LCB, A217 WCI, A217 WC6, A217 WC9, A217 C5, A351 CF8, A351 CF8M, A351 CF3, A351 CF3M |
| Gasket | Flexible Graphite+SS, PTFE | Adjusting gasket | A182 F6a, A182 F304, A182 F316, A182 F304L, A182 F316L |
| Adjusting bolt | A193 B7, A320 L7, A193 B16, A193 B8 | Bolt | A193 B7, A320 L7, A193 B16, A193 B8 |
| Nut | A194 2H, A194 4, A194 8 | Yoke | A216 WCB, A351 CF8 |
| Worm | Cast iron or Carbon Steel | | |

FEATURES

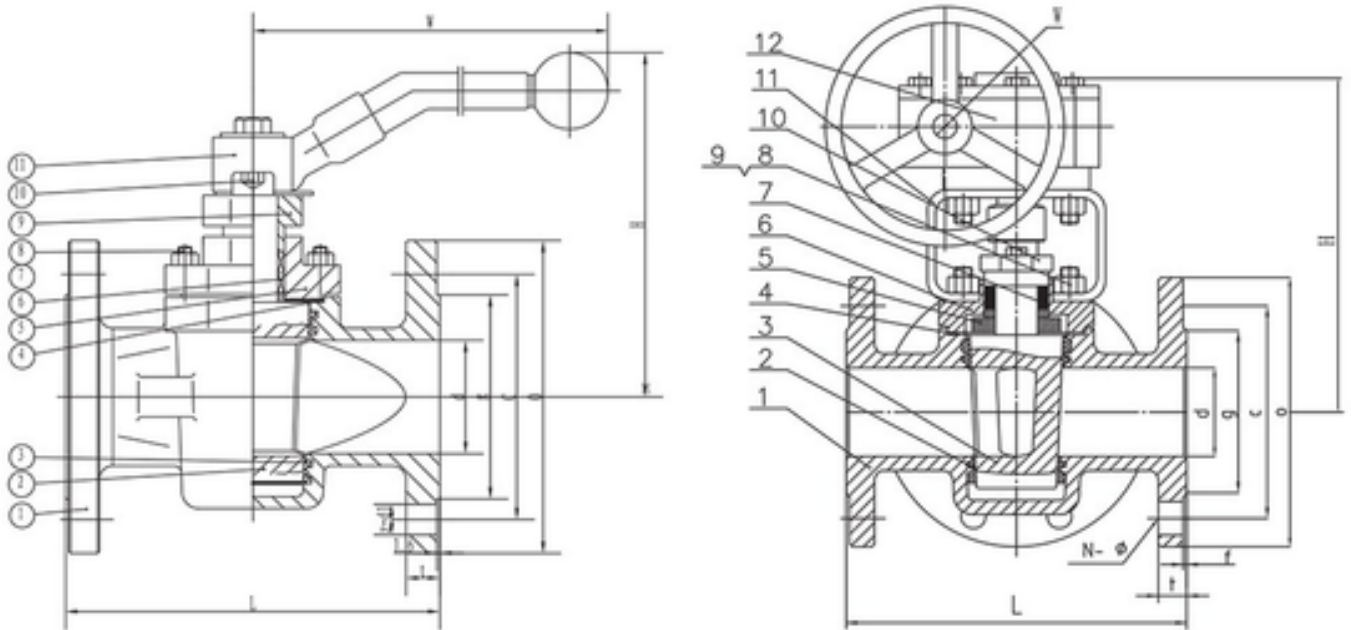
- PTFE sleeve provides soft sealing for the plug
- Adjustable gland arrangement with adjusting gasket and adjusting bolt
- Worm gear operator with yoke for larger sizes
- Available in carbon steel, alloy steel, and stainless steel material configurations
- Flexible graphite + SS or PTFE gasket options
- Flanged and butt-welding end connection options

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Sleeve Type Soft Sealing Plug Valve

SECTION Technical drawing 1 REF EFC-233



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Sleeve Type Soft Sealing Plug Valve

SECTION Dimensions per size REF EFC-233

| SIZE | L_C150 | D_C150 | H_C150 | DO_C150 | L_C300 | D_C300 | H_C300 | DO_C300 | C300 KG | WEIGHT |
|------------------|--------|--------|--------|---------|--------|--------|--------|---------|---------|---------|
| NPS 1/2 (DN15) | 108 | 13 | 110 | 175 | 140 | 13 | 110 | 175 | 9.5 kg | 8.5 kg |
| NPS 3/4 (DN20) | 117 | 19 | 115 | 175 | 152 | 19 | 115 | 175 | 10.5 kg | 9.5 kg |
| NPS 1 (DN25) | 127 | 25 | 115 | 175 | 165 | 25 | 115 | 175 | 12 kg | 10.5 kg |
| NPS 1 1/4 (DN32) | 140 | 32 | 135 | 220 | 178 | 32 | 135 | 220 | 14 kg | 12 kg |
| NPS 1 1/2 (DN40) | 165 | 38 | 140 | 280 | 190 | 38 | 140 | 280 | 16 kg | 14 kg |
| NPS 2 (DN50) | 178 | 49 | 150 | 305 | 216 | 49 | 150 | 305 | 20 kg | 18 kg |
| NPS 2 1/2 (DN65) | 190 | 62 | 165 | 350 | 241 | 62 | 165 | 350 | 24 kg | 22 kg |
| NPS 3 (DN80) | 203 | 74 | 180 | 405 | 283 | 74 | 180 | 405 | 29 kg | 26 kg |
| NPS 4 (DN100) | 229 | 100 | 380 | 300 | 305 | 100 | 380 | 300 | 53 kg | 40 kg |
| NPS 5 (DN125) | 254 | 127 | 460 | 300 | 381 | 127 | 460 | 300 | 75 kg | 60 kg |
| NPS 6 (DN150) | 267 | 150 | 520 | 320 | 403 | 150 | 520 | 320 | 85 kg | 70 kg |
| NPS 8 (DN200) | 292 | 201 | 580 | 320 | 419 | 201 | 580 | 320 | 185 kg | 130 kg |
| NPS 10 (DN250) | 330 | 252 | 620 | 350 | 457 | 252 | 620 | 350 | 230 kg | 219 kg |
| NPS 12 (DN300) | 356 | 303 | 680 | 380 | 502 | 303 | 680 | 380 | 390 kg | 381 kg |
| NPS 14 (DN350) | 381 | 334 | 760 | 450 | 762 | 334 | 760 | 450 | 550 kg | 570 kg |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Lubricated Plug Valve

REF **EFC-234** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | NPS 1/2 to NPS 14 |
| Pressure | Class 150 to Class 300 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.5) / butt-weld (ASME B16.25) |
| Face-to-face | ASME B16.10, API 6D |

ACTUATION

- manual handwheel — Handwheel Operation
- gear operator — Gear Operation

STANDARDS

| | |
|--------|------------------------|
| Design | API 599, API 6D |
| Test | API 598 |



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|-------------|---|--------|---|
| Body | A216 WCB, A352 LCB, A217 WCI, A217 WC6, A217 WC9, A217 C5, A351 CF8, A351 CF8M, A351 CF3, A351 CF3M | Cover | A216 WCB, A352 LCB, A217 WCI, A217 WC6, A217 WC9, A217 C5, A351 CF8, A351 CF8M, A351 CF3, A351 CF3M |
| Gasket | Flexible Graphite+SS, PTFE | Plug | A182 F6a, A182 F304, A182 F316, A182 F304L, A182 F316L |
| Stem | A182 F6a, A182 F304, A182 F316, A182 F304L, A182 F316L | O ring | NBR, Viton |
| Packing | Flexible Graphite+SS, PTFE | Gland | A216 WCB, A352 LCB, A217 WCI, A217 WC6, A217 WC9, A217 C5, A351 CF8, A351 CF8M, A351 CF3, A351 CF3M |
| Bolt | A193 B7, A320 L7, A193 B16, A193 B8 | Nut | A194 2H, A194 4, A194 8 |
| Check valve | SS | Nozzle | SS |
| Wrench | Ductile Iron, Carbon Steel | | |

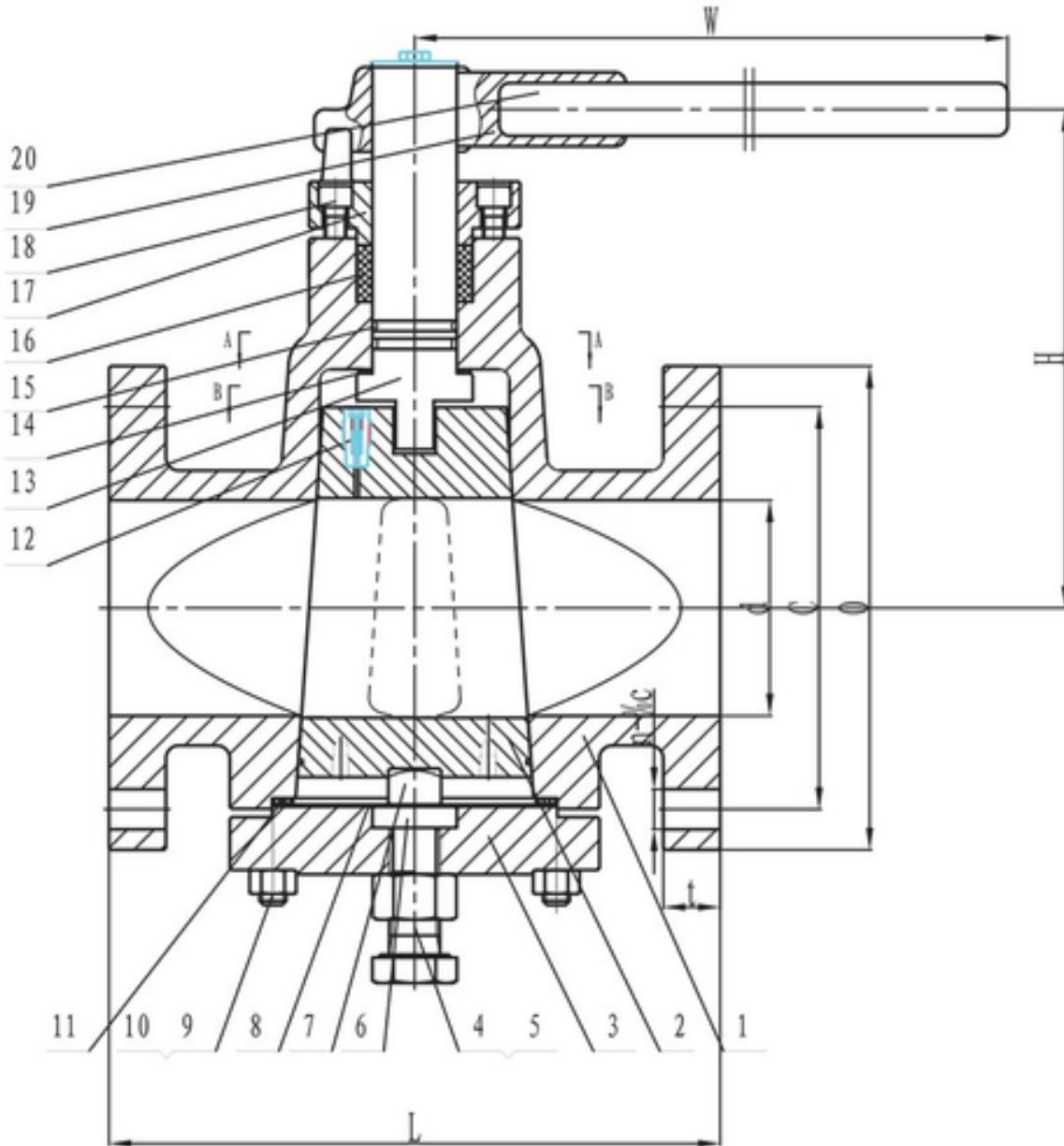
FEATURES

- Inverted pressure-balance construction
- Lubricated plug design
- Tapered plug element
- Check valve incorporated for lubrication retention
- Available in carbon steel, alloy steel, and stainless steel material configurations

API VALVE

API Lucricated Plug Valve

SECTION Technical drawing 1 REF EFC-234



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Lubricated Plug Valve

SECTION Dimensions per size REF EFC-234

| SIZE | L_C150 | D_C150 | H_C150 | W_C150 | L_C300 | D_C300 | H_C300 | W_C300 | C300 KG | WEIGHT |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| NPS 1/2 (DN15) | 108 | 13 | 180 | 400 | 140 | 13 | 180 | 400 | 12 kg | 10 kg |
| NPS 3/4 (DN20) | 117 | 19 | 180 | 400 | 152 | 19 | 180 | 400 | 14 kg | 12 kg |
| NPS 1 (DN25) | 127 | 25 | 185 | 500 | 165 | 25 | 185 | 500 | 16 kg | 14 kg |
| NPS 1 1/4 (DN32) | 140 | 32 | 200 | 500 | 178 | 32 | 200 | 600 | 19 kg | 17 kg |
| NPS 1 1/2 (DN40) | 165 | 38 | 214 | 600 | 190 | 38 | 210 | 600 | 21 kg | 19 kg |
| NPS 2 (DN50) | 178 | 49 | 215 | 600 | 216 | 49 | 215 | 820 | 24 kg | 21 kg |
| NPS 2 1/2 (DN65) | 190 | 62 | 250 | 820 | 241 | 62 | 250 | 1000 | 31 kg | 29 kg |
| NPS 3 (DN80) | 203 | 74 | 270 | 820 | 283 | 74 | 270 | 1000 | 36 kg | 33 kg |
| NPS 4 (DN100) | 229 | 100 | 300 | 300 | 305 | 100 | 300 | 300 | 61 kg | 48 kg |
| NPS 5 (DN125) | 254 | 127 | 340 | 300 | 381 | 127 | 340 | 300 | 86 kg | 75 kg |
| NPS 6 (DN150) | 267 | 150 | 365 | 320 | 403 | 150 | 365 | 320 | 130 kg | 98 kg |
| NPS 8 (DN200) | 292 | 201 | 400 | 320 | 419 | 201 | 400 | 320 | 190 kg | 125 kg |
| NPS 10 (DN250) | 330 | 252 | 450 | 350 | 457 | 252 | 450 | 350 | 255 kg | 171 kg |
| NPS 12 (DN300) | 356 | 303 | 510 | 380 | 502 | 303 | 510 | 380 | 380 kg | 230 kg |
| NPS 14 (DN350) | 381 | 334 | 590 | 380 | 762 | 334 | 590 | 380 | 560 kg | 370 kg |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Forged Steel Gate Valve

REF **EFC-424** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN15 to DN50 |
| Pressure | Class 800, Class 900, Class 1500, Class 2500 |
| End connection | threaded (ASME B1.20.1) / socket_weld (ASME B16.11) |
| Face-to-face | ASME B16.11, ASME B1.20.1 |

STANDARDS

| | |
|--------|----------------|
| Design | API 602 |
| Test | API 598 |



MATERIALS

| | | | |
|--------------|---|----------|--|
| Body | ASTM A105, ASTM A182 F304, ASTM A182 F316 | Disc | ASTM A105, ASTM A182 F304, ASTM A182 F316 |
| Stem | ASTM A182 F6, ASTM A182 F304, ASTM A182 F316 | Bonnet | ASTM A105, ASTM A182 F304, ASTM A182 F316 |
| Gland flange | ASTM A105, ASTM A182 F304, ASTM A182 F316 | Stem nut | ASTM A276 Gr.410 |
| Handwheel | ASTM A197 | | |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Forged Steel Gate Valve

SECTION Dimensions per size REF EFC-424

| SIZE | NPS | L | D | H | W | NPT | WEIGHT |
|------|--------|-----|------|-----|-----|--------|---------|
| DN15 | 1/2" | 79 | 13 | 153 | 100 | 1/2" | 2 kg |
| DN20 | 3/4" | 92 | 13 | 153 | 100 | 3/4" | 2.2 kg |
| DN25 | 1" | 111 | 18 | 185 | 125 | 1" | 3.6 kg |
| DN32 | 1 1/4" | 120 | 29 | 222 | 160 | 1 1/4" | 6.2 kg |
| DN40 | 1 1/2" | 120 | 29 | 240 | 160 | 1 1/2" | 6.2 kg |
| DN50 | 2" | 140 | 36.5 | 279 | 180 | 2" | 9.7 kg |
| DN15 | 1/2" | 92 | 13 | 181 | 125 | 1/2" | 3.5 kg |
| DN20 | 3/4" | 111 | 13 | 181 | 125 | 3/4" | 4 kg |
| DN25 | 1" | 120 | 18 | 218 | 160 | 1" | 6 kg |
| DN32 | 1 1/4" | 120 | 24 | 237 | 160 | 1 1/4" | 7 kg |
| DN40 | 1 1/2" | 140 | 29 | 274 | 180 | 1 1/2" | 10.8 kg |
| DN50 | 2" | 160 | 36.8 | 319 | 200 | 2" | 15.5 kg |
| DN15 | 1/2" | 150 | 14 | 284 | 160 | 1/2" | 10 kg |
| DN20 | 3/4" | 150 | 14 | 284 | 160 | 3/4" | 12.8 kg |
| DN25 | 1" | 170 | 19 | 327 | 200 | 1" | 22.5 kg |
| DN32 | 1 1/4" | 200 | 25 | 374 | 250 | 1 1/4" | 31.7 kg |
| DN40 | 1 1/2" | 200 | 28 | 377 | 250 | 1 1/2" | 33 kg |
| DN50 | 2" | 250 | 35 | 434 | 300 | 2" | 38 kg |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Lift Check Valve

REF **EFC-425** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | DN15 to DN300 |
| Pressure | Class 150, Class 300, Class 600, Class 900 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.5) / flanged (ASME B16.5) / flanged (ASME B16.5) / ring_type_joint (ASME B16.5) / ring_type_joint (ASME B16.5) / ring_type_joint (ASME B16.5) / ring_type_joint (ASME B16.5) / ring_type_joint (ASME B16.5) / butt_weld (ASME B16.25) / butt_weld (ASME B16.25) / butt_weld (ASME B16.25) / butt_weld (ASME B16.25) |



MATERIALS

| | |
|------|-----------------|
| Body | A216 WCB |
|------|-----------------|

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Lift Check Valve

SECTION Dimensions per size REF EFC-425

| SIZE | L_RF | L_RTJ | L_BW | D | H | WEIGHT |
|----------------|------|-------|------|-----|-----|--------|
| NPS 1/2 DN15 | 108 | 119 | 108 | 13 | 76 | 3 kg |
| NPS 3/4 DN20 | 117 | 130 | 117 | 19 | 76 | 4 kg |
| NPS 1 DN25 | 127 | 140 | 127 | 25 | 98 | 5 kg |
| NPS 1 1/4 DN32 | 140 | 153 | 140 | 32 | 102 | 7 kg |
| NPS 1 1/2 DN40 | 165 | 178 | 165 | 38 | 115 | 8 kg |
| NPS 2 DN50 | 203 | 216 | 203 | 51 | 140 | 15 kg |
| NPS 2 1/2 DN65 | 216 | 229 | 216 | 64 | 162 | 22 kg |
| NPS 3 DN80 | 241 | 254 | 241 | 76 | 168 | 28 kg |
| NPS 4 DN100 | 292 | 305 | 292 | 102 | 194 | 42 kg |
| NPS 5 DN125 | 356 | 368 | 356 | 127 | 210 | 60 kg |
| NPS 6 DN150 | 406 | 419 | 406 | 152 | 226 | 75 kg |
| NPS 8 DN200 | 495 | 508 | 495 | 203 | 250 | 118 kg |
| NPS 10 DN250 | 622 | 635 | 622 | 254 | 275 | 194 kg |
| NPS 12 DN300 | 699 | 711 | 699 | 305 | 332 | 320 kg |
| NPS 1/2 DN15 | 152 | 162 | 152 | 13 | 78 | 5 kg |
| NPS 3/4 DN20 | 178 | 191 | 178 | 19 | 82 | 6 kg |
| NPS 1 DN25 | 203 | 216 | 203 | 25 | 102 | 8 kg |
| NPS 1 1/4 DN32 | 216 | 229 | 216 | 32 | 106 | 11 kg |
| NPS 1 1/2 DN40 | 229 | 242 | 229 | 38 | 118 | 13 kg |
| NPS 2 DN50 | 267 | 283 | 267 | 51 | 140 | 26 kg |
| NPS 2 1/2 DN65 | 292 | 308 | 292 | 64 | 164 | 33 kg |
| NPS 3 DN80 | 318 | 333 | 318 | 76 | 178 | 50 kg |
| NPS 4 DN100 | 356 | 371 | 356 | 102 | 195 | 86 kg |
| NPS 5 DN125 | 400 | 416 | 400 | 127 | 223 | 120 kg |
| NPS 6 DN150 | 445 | 460 | 445 | 152 | 245 | 180 kg |
| NPS 8 DN200 | 533 | 549 | 533 | 203 | 280 | 220 kg |
| NPS 10 DN250 | 622 | 638 | 622 | 254 | 336 | 310 kg |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API Lift Check Valve

Dimensions per size (continued) · EFC-425

| SIZE | L_RF | L_RTJ | L_BW | D | H | WEIGHT |
|-----------------------|------|-------|------|-----|-----|--------|
| NPS 12 DN300 | 711 | 727 | 711 | 305 | 380 | 510 kg |
| NPS 2 DN50 | 292 | 295 | 292 | 51 | 152 | 32 kg |
| NPS 2 1/2 DN65 | 330 | 333 | 330 | 64 | 167 | 45 kg |
| NPS 3 DN80 | 356 | 359 | 356 | 76 | 178 | 68 kg |
| NPS 4 DN100 | 432 | 435 | 432 | 102 | 215 | 98 kg |
| NPS 5 DN125 | 508 | 511 | 508 | 125 | 240 | 155 kg |
| NPS 6 DN150 | 559 | 562 | 559 | 152 | 279 | 230 kg |
| NPS 8 DN200 | 660 | 664 | 660 | 200 | 328 | 300 kg |
| NPS 2 DN50 | 368 | 371 | 368 | 48 | 180 | 50 kg |
| NPS 2 1/2 DN65 | 419 | 422 | 419 | 57 | 200 | 65 kg |
| NPS 3 DN80 | 381 | 384 | 381 | 73 | 235 | 88 kg |
| NPS 4 DN100 | 457 | 460 | 457 | 98 | 270 | 140 kg |
| NPS 5 DN125 | 559 | 562 | 559 | 125 | 300 | 210 kg |
| NPS 6 DN150 | 610 | 613 | 610 | 146 | 350 | 300 kg |
| NPS 8 DN200 | 737 | 740 | 737 | 190 | 400 | 390 kg |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

API VALVE

API Forged Steel Check Valve

REF **EFC-426** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN15 to DN50 |
| Pressure | Class 800, Class 900, Class 1500, Class 2500 |
| End connection | threaded (ASME B1.20.1) / socket_weld (ASME B16.11) |

STANDARDS

| | |
|--------|----------------|
| Design | API 602 |
| Test | API 598 |

MATERIALS

| | | | |
|--------|--|--------|--|
| Body | ASTM A105, ASTM A182 F304, ASTM A182 F316 | Disc | ASTM A105, ASTM A182 F304, ASTM A182 F316 |
| Gasket | Graphite+SS304, Graphite+SS316 | Bonnet | ASTM A105, ASTM A182 F304, ASTM A182 F316 |
| Bolt | A193 B7, A193 B8 | Nut | A194 2H, A194 8 |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Forged Steel Check Valve

SECTION Dimensions per size REF EFC-426

| SIZE | PISTON_L | PISTON_D | PISTON_H | PIS- TON_NPT | SWING_L | SWING_D | SWING_H | SWING_NPT |
|------|----------|----------|----------|-----------------|---------|---------|---------|-----------|
| DN15 | 79 | 10 | 54.5 | 1/2" | 79 | 13 | 54.5 | 1/2" |
| DN20 | 92 | 13 | 54.5 | 3/4" | 92 | 13 | 54.5 | 3/4" |
| DN25 | 111 | 17.5 | 72 | 1" | 111 | 18 | 72 | 1" |
| DN32 | 120 | 23 | 81 | 1 1/4" | 120 | 24 | 81 | 1 1/4" |
| DN40 | 152 | 28.5 | 94 | 1 1/2" | 120 | 29 | 94 | 1 1/2" |
| DN50 | 172 | 35 | 112 | 2" | 140 | 36.8 | 112 | 2" |
| DN15 | 92 | 10 | 73 | 1/2" | 92 | 13 | 73 | 1/2" |
| DN20 | 111 | 13 | 73 | 3/4" | 111 | 13 | 73 | 3/4" |
| DN25 | 120 | 17.5 | 84 | 1" | 120 | 18 | 84 | 1" |
| DN32 | 152 | 23 | 97 | 1 1/4" | 120 | 24 | 97 | 1 1/4" |
| DN40 | 172 | 28.5 | 115 | 1 1/2" | 140 | 29 | 115 | 1 1/2" |
| DN50 | 220 | 35 | 132 | 2" | 160 | 36.8 | 132 | 2" |
| DN15 | 150 | 11 | 102 | 1/2" | — | — | — | — |
| DN20 | 150 | 14 | 102 | 3/4" | — | — | — | — |
| DN25 | 170 | 19 | 107 | 1" | — | — | — | — |
| DN32 | 200 | 25 | 128 | 1 1/4" | — | — | — | — |
| DN40 | 200 | 28 | 128 | 1 1/2" | — | — | — | — |
| DN50 | 250 | 35 | 143 | 2" | — | — | — | — |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Wafer Type Check Valve

REF **EFC-427** ISSUED **08 Jul 2026**

SPECIFICATIONS

| | |
|----------------|---|
| Size | DN50 to DN1200 |
| Pressure | Class 150, Class 300 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.47 / API 605 / MSS SP-44) |
| Face-to-face | API 6D, DIN 3202 |

STANDARDS

| | |
|--------|------------------------|
| Design | API 6D |
| Test | API 598, API 6D |

MATERIALS

| | | | |
|------|---|--------|---|
| Body | A216 WCB, A352 LCB, A217 WC6, A217 WC9, A217 C5, A351 CF8, A351 CF8M | Disc | A351 CF8, A217 WC6, A217 WC9, A217 C5, A351 CF8M |
| Stem | A182 F6a, A182 F304, A182 F316 | Spring | Stainless steel, Inconel |

FEATURES

- Short face-to-face dimensions, 1/4 to 1/8 times those of a traditional flanged check valve
- Compact and lightweight, approximately 1/4 to 1/20 of the volume and weight of a traditional flanged check valve
- Disc closes quickly with reduced water hammer pressure
- Suitable for installation on horizontal or vertical pipelines
- Fluent flow passage with low flow resistance
- Sensitive actuation with good sealing effect
- Short disc travel reduces impact force on valve closing
- Integral structure with clean outline
- Long service life with high reliability

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Wafer Type Check Valve

SECTION Dimensions per size REF EFC-427

| SIZE | L | D | D2 | D3 | D1 | NUM_BOLTS | BOLT_D_MM | RF | L1 | RTJ | WEIGHT |
|------------------|-----|------|------|------|--------|-----------|-----------|-----|-----|-----|---------|
| NPS 2 / DN50 | 60 | 103 | 51 | 56 | 120.5 | 4 | 5/8 in | M16 | 140 | 155 | 2 kg |
| NPS 2 1/2 / DN65 | 67 | 122 | 65 | 73 | 139.5 | 4 | 5/8 in | M16 | 150 | 165 | 3 kg |
| NPS 3 / DN80 | 73 | 135 | 80 | 88 | 152.5 | 4 | 5/8 in | M16 | 160 | 175 | 4 kg |
| NPS 4 / DN100 | 73 | 173 | 102 | 108 | 190.5 | 8 | 5/8 in | M16 | 170 | 185 | 6 kg |
| NPS 5 / DN125 | 86 | 195 | 127 | 132 | 216 | 8 | 3/4 in | M20 | 190 | 205 | 8 kg |
| NPS 6 / DN150 | 98 | 220 | 152 | 160 | 241.5 | 8 | 3/4 in | M20 | 205 | 220 | 13 kg |
| NPS 8 / DN200 | 127 | 277 | 203 | 210 | 298.5 | 8 | 3/4 in | M20 | 240 | 255 | 25 kg |
| NPS 10 / DN250 | 146 | 337 | 254 | 266 | 362 | 12 | 7/8 in | M24 | 270 | 285 | 39 kg |
| NPS 12 / DN300 | 181 | 407 | 305 | 310 | 432 | 12 | 7/8 in | M24 | 310 | 325 | 54 kg |
| NPS 14 / DN350 | 184 | 448 | 350 | 355 | 476 | 12 | 1 in | M27 | 325 | 340 | 80 kg |
| NPS 16 / DN400 | 191 | 512 | 400 | 405 | 540 | 16 | 1 in | M27 | 340 | 355 | 117 kg |
| NPS 18 / DN450 | 203 | 547 | 450 | 455 | 578 | 16 | 1 1/8 in | M30 | 365 | 380 | 138 kg |
| NPS 20 / DN500 | 219 | 604 | 500 | 505 | 635 | 20 | 1 1/8 in | M30 | 385 | 400 | 163 kg |
| NPS 24 / DN600 | 222 | 715 | 600 | 605 | 749.5 | 20 | 1 1/4 in | M33 | 405 | 420 | 331 kg |
| NPS 28 / DN700 | 305 | 773 | 700 | 700 | 795.5 | 40 | 3/4 in | M20 | 455 | — | 380 kg |
| NPS 30 / DN750 | 305 | 824 | 746 | 750 | 846 | 44 | 3/4 in | M20 | 455 | — | 425 kg |
| NPS 32 / DN800 | 305 | 878 | 796 | 800 | 900 | 48 | 3/4 in | M20 | 460 | — | 560 kg |
| NPS 36 / DN900 | 368 | 983 | 898 | 910 | 1009.5 | 44 | 7/8 in | M24 | 540 | — | 640 kg |
| NPS 42 / DN1050 | 432 | 1142 | 1050 | 1055 | 1171.5 | 48 | 1 in | M27 | 625 | — | 960 kg |
| NPS 48 / DN1200 | 524 | 1302 | 1200 | 1205 | 1335 | 44 | 1 1/8 in | M30 | 740 | — | 1400 kg |
| NPS 2 / DN50 | 60 | 110 | 51 | 58 | 127 | 8 | 5/8 in | M16 | 155 | 175 | 3 kg |
| | 67 | 128 | 65 | 73 | 149 | 8 | 3/4 in | M20 | 175 | 195 | 4 kg |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

**NPS 2 1/2 /
DN65**

| | | | | | | | | | | | |
|----------------------|----|-----|-----|-----|-------|---|--------|-----|-----|-----|-------|
| NPS 3 / DN80 | 73 | 147 | 80 | 88 | 168.5 | 8 | 3/4 in | M20 | 190 | 210 | 6 kg |
| NPS 4 / DN100 | 73 | 179 | 102 | 108 | 200 | 8 | 3/4 in | M20 | 195 | 215 | 8 kg |
| NPS 5 / DN125 | 86 | 214 | 127 | 132 | 235 | 8 | 3/4 in | M20 | 215 | 235 | 15 kg |

API Wafer Type Check Valve

Dimensions per size (continued) · EFC-427

| SIZE | L | D | D2 | D3 | D1 | NUM_BOR | T_D | BOLT_D | MM | RF | L1 | RTJ | WEIGHT |
|------------------------|-----|------|------|------|--------|---------|----------|--------|------|-----|----|-----|---------|
| NPS 6 / DN150 | 98 | 249 | 152 | 160 | 270 | 12 | 3/4 in | M20 | 230 | 250 | | | 18 kg |
| NPS 8 / DN200 | 127 | 305 | 203 | 210 | 330 | 12 | 7/8 in | M24 | 280 | 300 | | | 31 kg |
| NPS 10 / DN250 | 146 | 359 | 254 | 266 | 387.5 | 16 | 1 in | M27 | 315 | 335 | | | 51 kg |
| NPS 12 / DN300 | 181 | 420 | 305 | 310 | 451 | 16 | 1 1/8 in | M30 | 365 | 385 | | | 77 kg |
| NPS 14 / DN350 | 222 | 483 | 350 | 355 | 514.5 | 20 | 1 1/8 in | M30 | 410 | 430 | | | 117 kg |
| NPS 16 / DN400 | 232 | 537 | 400 | 405 | 571.5 | 20 | 1 1/4 in | M33 | 435 | 455 | | | 190 kg |
| NPS 18 / DN450 | 264 | 594 | 450 | 455 | 628.5 | 24 | 1 1/4 in | M33 | 475 | 495 | | | 200 kg |
| NPS 20 / DN500 | 292 | 652 | 500 | 505 | 686 | 24 | 1 1/4 in | M33 | 510 | 535 | | | 265 kg |
| NPS 24 / DN600 | 318 | 772 | 600 | 608 | 813 | 24 | 1 1/2 in | M39 | 560 | 585 | | | 410 kg |
| NPS 30 / DN750 | 368 | 882 | 735 | 740 | 921 | 36 | 1 3/8 in | M36 | 650 | — | | | 660 kg |
| NPS 36 / DN900 | 483 | 1044 | 873 | 880 | 1089 | 32 | 1 5/8 in | M42 | 800 | — | | | 1020 kg |
| NPS 42 / DN1050 | 568 | 1196 | 1035 | 1045 | 1244.5 | 36 | 1 3/4 in | M45 | 920 | — | | | 1540 kg |
| NPS 48 / DN1200 | 629 | 1365 | 1179 | 1190 | 1416 | 40 | 1 7/8 in | M48 | 1010 | — | | | 2260 kg |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

API VALVE

API Y Pattern Strainer

REF **EFC-428** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | DN15 to DN500 |
| Pressure | Class 150, Class 300, Class 600 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.5) / flanged (ASME B16.5) |

MATERIALS

| | | | |
|------------|---|-------------|---|
| Body | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M | Screen | ASTM A182 F304, ASTM A182 F316 |
| Bonnet | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M | Bonnet bolt | ASTM A193 B7, ASTM A193 B8 |
| Bonnet nut | ASTM A194 2H, ASTM A194 8 | Gasket | Graphite + SS304, Graphite + SS316 |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API VALVE

API Y Pattern Strainer

SECTION Dimensions per size REF EFC-428

| SIZE | L | H | H1 | WEIGHT |
|-------|-----|------|------|--------|
| DN15 | 108 | 67 | 92 | 2 kg |
| DN20 | 117 | 73 | 105 | 2 kg |
| DN25 | 127 | 87 | 117 | 3 kg |
| DN32 | 140 | 100 | 138 | 4 kg |
| DN40 | 165 | 120 | 155 | 5 kg |
| DN50 | 203 | 145 | 185 | 13 kg |
| DN65 | 216 | 170 | 220 | 15 kg |
| DN80 | 241 | 190 | 250 | 18 kg |
| DN100 | 292 | 245 | 340 | 22 kg |
| DN125 | 356 | 290 | 400 | 42 kg |
| DN150 | 406 | 325 | 450 | 50 kg |
| DN200 | 495 | 370 | 500 | 91 kg |
| DN250 | 622 | 455 | 635 | 205 kg |
| DN300 | 699 | 525 | 735 | 297 kg |
| DN350 | 787 | 610 | 885 | 394 kg |
| DN400 | 914 | 800 | 1160 | 570 kg |
| DN450 | 978 | 965 | 1365 | 680 kg |
| DN500 | 978 | 1100 | 1550 | 830 kg |
| DN15 | 152 | 70 | 95 | 3 kg |
| DN20 | 178 | 80 | 110 | 4 kg |
| DN25 | 203 | 115 | 135 | 5 kg |
| DN32 | 216 | 105 | 142 | 7 kg |
| DN40 | 229 | 128 | 155 | 9 kg |
| DN50 | 267 | 152 | 184 | 16 kg |
| DN65 | 292 | 185 | 236 | 20 kg |
| DN80 | 318 | 204 | 266 | 24 kg |
| DN100 | 356 | 265 | 335 | 30 kg |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API Y Pattern Strainer

Dimensions per size (continued) · EFC-428

| SIZE | L | H | H1 | WEIGHT |
|-------|-----|-----|------|---------|
| DN125 | 400 | 280 | 386 | 50 kg |
| DN150 | 444 | 335 | 460 | 70 kg |
| DN200 | 559 | 420 | 595 | 115 kg |
| DN250 | 622 | 500 | 710 | 270 kg |
| DN300 | 711 | 575 | 781 | 380 kg |
| DN350 | 838 | 650 | 938 | 520 kg |
| DN400 | 914 | 740 | 1055 | 608 kg |
| DN50 | 292 | 210 | 350 | 19 kg |
| DN65 | 330 | — | — | — |
| DN80 | 356 | 260 | 430 | 40 kg |
| DN100 | 432 | — | — | — |
| DN125 | 508 | 310 | 510 | 51 kg |
| DN150 | 559 | 385 | 520 | 161 kg |
| DN200 | 660 | 455 | 620 | 243 kg |
| DN250 | 787 | 505 | 635 | 463 kg |
| DN300 | 838 | 660 | 780 | 765 kg |
| DN350 | 889 | 720 | 990 | 998 kg |
| DN400 | 991 | 840 | 1120 | 1230 kg |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

API VALVE

API Triple Offset Lug Butterfly Valve

REF **EFC-429** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | NPS 2" (DN50) to NPS 48" (DN1200) |
| Pressure | Class 150, Class 300 |
| End connection | lug / lug |



FEATURES

- Available with pneumatic, electric or hydraulic actuators according to customer request and actual valve working condition

API VALVE

API Triple Offset Lug Butterfly Valve

SECTION Dimensions per size REF EFC-429

| SIZE | L | H1 | H2 | D | WEIGHT |
|------------------|-----|------|-----|-----|---------|
| NPS 2 (DN50) | 43 | 305 | 105 | 160 | 14 kg |
| NPS 2 1/2 (DN65) | 46 | 315 | 115 | 160 | 15 kg |
| NPS 3 (DN80) | 48 | 330 | 125 | 160 | 17 kg |
| NPS 4 (DN100) | 54 | 360 | 150 | 160 | 20 kg |
| NPS 5 (DN125) | 57 | 450 | 160 | 280 | 27 kg |
| NPS 6 (DN150) | 57 | 475 | 185 | 280 | 31 kg |
| NPS 8 (DN200) | 64 | 525 | 245 | 280 | 45 kg |
| NPS 10 (DN250) | 71 | 540 | 275 | 280 | 86 kg |
| NPS 12 (DN300) | 81 | 660 | 315 | 320 | 105 kg |
| NPS 14 (DN350) | 92 | 470 | 330 | 350 | 135 kg |
| NPS 16 (DN400) | 102 | 730 | 365 | 350 | 150 kg |
| NPS 18 (DN450) | 114 | 810 | 390 | 350 | 218 kg |
| NPS 20 (DN500) | 127 | 885 | 430 | 400 | 289 kg |
| NPS 24 (DN600) | 154 | 940 | 470 | 400 | 407 kg |
| NPS 26 (DN650) | 165 | 955 | 490 | 400 | 445 kg |
| NPS 28 (DN700) | 165 | 1050 | 505 | 400 | 470 kg |
| NPS 30 (DN750) | 190 | 1050 | 525 | 450 | 590 kg |
| NPS 32 (DN800) | 190 | 1185 | 580 | 450 | 680 kg |
| NPS 36 (DN900) | 203 | 1205 | 625 | 450 | 900 kg |
| NPS 40 (DN1000) | 216 | 1260 | 685 | 500 | 1000 kg |
| NPS 48 (DN1200) | 254 | 1395 | 790 | 500 | 1550 kg |
| NPS 2 (DN50) | 43 | 315 | 115 | 160 | 19 kg |
| NPS 2 1/2 (DN65) | 46 | 325 | 125 | 160 | 22 kg |
| NPS 3 (DN80) | 48 | 340 | 140 | 160 | 35 kg |
| NPS 4 (DN100) | 54 | 440 | 150 | 280 | 30 kg |
| NPS 5 (DN125) | 57 | 480 | 180 | 280 | 41 kg |
| NPS 6 (DN150) | 59 | 515 | 220 | 280 | 47 kg |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API Triple Offset Lug Butterfly Valve

Dimensions per size (continued) · EFC-429

| SIZE | L | H1 | H2 | D | WEIGHT |
|----------------|-----|------|-----|-----|--------|
| NPS 8 (DN200) | 73 | 530 | 250 | 280 | 68 kg |
| NPS 10 (DN250) | 83 | 640 | 300 | 350 | 130 kg |
| NPS 12 (DN300) | 92 | 685 | 335 | 350 | 158 kg |
| NPS 14 (DN350) | 117 | 780 | 375 | 350 | 216 kg |
| NPS 16 (DN400) | 133 | 830 | 380 | 400 | 225 kg |
| NPS 18 (DN450) | 149 | 915 | 420 | 400 | 327 kg |
| NPS 20 (DN500) | 159 | 985 | 475 | 400 | 434 kg |
| NPS 24 (DN600) | 181 | 1085 | 540 | 450 | 610 kg |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

BALL VALVE

API Floating Ball Valve

REF **EFC-9** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 2" to NPS 12" |
| Pressure | Class 150 to Class 2500 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.47) |
| Face-to-face | ASME B16.10 |

ACTUATION

- manual lever — A216 WCB handle with orientation board and backstop

STANDARDS

| | |
|--------|----------------------------|
| Design | API 6D, ASME B16.34 |
| Test | API 598 |



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|-------------------|--|-----------------|--|
| Body | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M | Bonnet | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M |
| Seat | PTFE | Ball | A182 F6, A105+ENP, A182 F304, A182 F316 |
| Gasket | GRAPHITE+SS304, GRAPHITE+SS316 | Nut | ASTM A194 2H, ASTM A194 8 |
| Stud | ASTM A193 B7, ASTM A193 B8 | Stem | A276 410, A182 F304, A182 F316 |
| Thrust gasket | PTFE | Packing | Graphite, PTFE |
| Sleeve | A182 F6, A182 F304, A182 F316 | Press board | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M |
| Orientation board | A3+Zn | Backstop | 65Mn |
| Handle | A216 WCB | Inside hex bolt | ASTM A193 B7, ASTM A193 B8 |
| Name plate | SS | Rivet | AL |
| Spring | 304, 316 | Steel ball | 304, 316 |
| Disc | A182 F6, A105+ENP, A182 F304, A182 F316 | | |

FEATURES

- Floating ball design
- PTFE seats
- Graphite/PTFE packing
- Firesafe construction conforming to API 607
- Anti-static spring and steel ball
- Stem with thrust gasket

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BALL VALVE

API Floating Ball Valve

SECTION Dimensions per size REF EFC-9

| SIZE | D | D | D1 | D2 | B | FN_BOLT_CIR- CLE | L | H |
|-----------------|-----|-----|-------|-----|----|---------------------|-----|-----|
| NPS 2" (150LB) | 51 | 152 | 120.5 | 92 | 16 | 1.6 4-ø19 | 178 | 143 |
| NPS 3" (150LB) | 76 | 190 | 152.5 | 127 | 19 | 1.6 4-ø19 | 203 | 194 |
| NPS 4" (150LB) | 102 | 229 | 190.5 | 157 | 24 | 1.6 8-ø19 | 229 | 233 |
| NPS 6" (150LB) | 152 | 279 | 241.5 | 216 | 26 | 1.6 8-ø22 | 394 | 297 |
| NPS 8" (150LB) | 203 | 343 | 298.5 | 270 | 29 | 1.6 8-ø22 | 457 | 580 |
| NPS 10" (150LB) | 254 | 406 | 362 | 324 | 31 | 1.6 12-ø25 | 533 | 625 |
| NPS 12" (150LB) | 305 | 483 | 432 | 381 | 32 | 1.6 12-ø25 | 610 | 800 |
| NPS 2" (300LB) | 51 | 165 | 127 | 92 | 23 | 1.6 8-ø19 | 216 | 143 |
| NPS 3" (300LB) | 76 | 210 | 168.5 | 127 | 29 | 1.6 8-ø22 | 283 | 194 |
| NPS 4" (300LB) | 102 | 254 | 200 | 157 | 32 | 1.6 8-ø22 | 305 | 233 |
| NPS 6" (300LB) | 152 | 318 | 270 | 216 | 37 | 1.6 12-ø22 | 403 | 297 |
| NPS 8" (300LB) | 203 | 381 | 330 | 270 | 42 | 1.6 12-ø25 | 502 | 580 |
| NPS 10" (300LB) | 254 | 445 | 387.5 | 324 | 48 | 1.6 16-ø29 | 568 | 625 |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BALL VALVE

Cast Steel Floating Ball Valve

REF **EFC-14** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | DN15 to DN200 |
| Pressure | Class 150 to Class 600 |
| End connection | flanged / flanged / butt weld / threaded / socket weld |
| Temperature | -196°C to 540°C |
| Media | water, solvents, acid, natural gas, oxygen, hydrogen peroxide, methane, ethylene |

ACTUATION

- manual
- pneumatic
- electric
- gas-hydraulic — Gas-liquid interaction

STANDARDS

| | |
|--------|---|
| Design | API 6D, ASME B16.34, BS 5351, ISO 17292, DIN |
| Test | API 598, API 6D, BS 12569 |

APPLICATIONS

- Petroleum
- Natural gas
- Chemical
- Petrochemical
- Power station
- Metallurgy
- Papermaking



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **WCB, WC6, WC9, WCC, CF8, CF3, CF3M, CF8M**

FEATURES

- Simple structure, easy operation and easy maintenance
- Low fluid resistance and large flow regulation range
- Sealing surface and ball remain in closed state, reducing erosion by medium
- Corrosion resistance
- Full bore and reduced bore options available
- Body marked '2" 300 WCB' indicating 2-inch Class 300 carbon steel flanged ball valve
- Flanged end connections visible both sides
- ISO 5211 top flange mounting pad visible
- Split body / two-piece construction

BALL VALVE

Cast Steel Trunnion Mounted Ball Valve

REF **EFC-17** ISSUED **08 Jul 2026**

SPECIFICATIONS

| | |
|----------------|--|
| Size | 2" to 48" |
| Pressure | Class 150 to Class 900 |
| End connection | flanged / flanged / butt-weld / threaded / socket-weld |
| Temperature | -196°C to 540°C |
| Media | petroleum, natural gas, chemical media, petrochemical media, corrosive media, non-corrosive media |

ACTUATION

- manual
- pneumatic
- electric
- gas-liquid interaction

STANDARDS

| | |
|--------|---|
| Design | API 6D, ASME B16.34, BS 5351, ISO 17292, DIN |
| Test | API 598, API 6D, BS 12569 |

APPLICATIONS

- Petroleum
- Natural gas
- Chemical
- Petrochemical
- Power station
- Metallurgy
- Papermaking
- Long-distance pipelines
- General industrial pipelines



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **WCB, WC6, WC9, WCC, CF8, CF3, CF3M, CF8M**

FEATURES

- Spring-loaded seat structure providing low-pressure sealing performance
- Bi-directional sealing with built-in discharge valve for cavity pressure relief
- Anti-blowout stem protection structure
- Low friction coefficient bearings on valve shaft
- Full bore and reduced bore options available
- Size 12 inch, Class 150, WCB body material cast on valve body
- Trunnion-mounted ball valve with flanged ends
- Top-mounted actuator mounting pad (ISO 5211 pattern visible)
- Body cavity relief/drain connection visible at bottom
- Lifting lugs on both flanges
- Split body (3-piece) construction
- Heat number / heat code: OQ 816

OPTIONS & NOTES

- Gas-liquid interaction actuation available etc.

BALL VALVE

Fully Welded Ball Valve

REF **EFC-23** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | 2" to 48" |
| Pressure | Class 150 to Class 2500 |
| End connection | butt weld (ASME B16.25) / socket weld (ASME B16.11) |
| Temperature | -196°C to 540°C |
| Media | petroleum, natural gas, chemicals, petrochemicals |

ACTUATION

- manual
- pneumatic
- electric
- gas-liquid interaction

STANDARDS

| | |
|--------|--|
| Design | API 6D, API 608, ASME B16.34, ISO 17292, BS5351 |
| Test | API 598, API 6D, BS12569 |

APPLICATIONS

- Petroleum
- Natural gas
- Chemical
- Petrochemical
- Power plant
- Metallurgy
- Papermaking



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|------|-------------------------------------|------|-----------------------------------|
| Body | A105, LF2, F316, F11, F304 | Seat | PTFE (carbon-strengthened) |
| Stem | O-ring sealed (dual O-rings) | | |

FEATURES

- Integral welded body formed from seamless steel pipe; suitable for service with impurities and chemicals
- Compact and lightweight construction; extension stem available for insulation and installation convenience
- Carbon-strengthened PTFE inclined elastic sealing ring with negative pressure on spherical surface; zero leakage
- Dual O-ring stem seal allowing free rotation with tight sealing
- Performance: DN700, PN25 visible on valve body

OPTIONS & NOTES

- Gas-liquid interaction actuation listed as 'etc.' implying additional options may be available on request

BALL VALVE

Fully Welded Ball Valve

REF **EFC-445** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | DN50 to DN1500 |
| Pressure | Class 150 / PN10 to Class 2500 / PN420 |
| End connection | flanged (ASME B16.5 / ASME B16.47 / GB/T 9113 / JB/T 79 / HG/T 20592 / EN 1092 / GOST 33259) / butt-weld (ASME B16.25 / GB/T 12224) |
| Face-to-face | ASME B16.10, GB/T 12221, EN 558 |
| Temperature | -60°C to 250°C |
| Media | petroleum / crude oil, natural gas, gas, chemical fluids, water (urban supply), metallurgical process fluids, light-industry fluids, power-station fluids, cryogenic media (low-temperature service) |



ACTUATION

- manual lever/handwheel
- gear operator
- electric actuator
- pneumatic actuator
- hydraulic actuator

STANDARDS

| | |
|--------|--|
| Design | API 6D, ASME B16.34, ISO 14313, ISO 17292, GB/T 30818, GB/T 37827 |
| Test | API 598, API 6D, GB/T 13927, JB/T 9092, GOST 9544 |

APPLICATIONS

- Petroleum and oil pipelines
- Natural gas and gas transmission pipelines
- Long-distance buried pipelines
- Chemical industry

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

- Metallurgy
- Light industry
- Power stations
- Urban water supply construction
- LNG and low-temperature service

MATERIALS

Body **Carbon Steel, Stainless Steel, Alloy Steel**

FEATURES

- Fully welded connections at critical points to minimise leak paths
- Available in cylindrical and spherical fully welded body designs
- Side-entry (side-mounted) ball configuration
- Fixed and floating ball variants available
- Seat options: Double Block and Bleed (DBB), Double Isolation and Bleed Function 1 (DIB-1), Double Isolation and Bleed Function 2 (DIB-2)
- Seal options: soft seal and triangular ring seal
- Anti-blow-out stem design
- Fire-safe device per API 6FA / API 607
- Anti-static device
- Emergency sealant injection ports
- Drain and vent valves for maintenance without full disassembly
- Valve ends customisable to match pipeline material for welded installation
- Extended stem option for buried/underground installation with above-ground access
- CTOD testing of weld joints for post-heat-treatment safety assessment
- Welding processes certified by TUV

OPTIONS & NOTES

- Extended stems for underground valves customisable per client specifications
- Nominal sizes and pressure classes customisable on request

BALL VALVE

Side Entry Floating Ball Valve

REF **EFC-447** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|-------------|--|
| Size | DN15 to DN200 |
| Pressure | Class 150 to Class 1500 |
| Temperature | -60°C to 250°C |
| Media | water, petrochemical media, metallurgical media, mining media, textile media, energy media, paper media, food media, steel industry media |

ACTUATION

- Manual
- Pneumatic
- Electric

STANDARDS

Design **API 608, API 6D, BS 5351, ASME B16.34**

APPLICATIONS

- Water supply
- Petrochemical
- Metallurgy
- Mining
- Textile
- Energy
- Paper
- Food
- Steel
- Flow direction switching
- Fluid diverting
- Fluid mixing



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|------|---|--------|---|
| Body | Carbon Steel, Stainless Steel, Alloy Steel | Bonnet | Carbon Steel, Stainless Steel, Alloy Steel |
|------|---|--------|---|

FEATURES

- Full bore (full ported) design
- Lip-type seal seats providing low friction and minimal operational torque
- Bottom-mounted stem to prevent stem blowout and maintain seal integrity during fire conditions
- Fire-safe design
- Anti-static design (applicable to soft-sealed variants)
- Flat-headed stem provides accurate indication of valve position via handle
- Locking holes at fully open and fully closed positions to prevent accidental operation
- Quarter-turn operation
- Compact and lightweight construction
- Low fluid resistance

OPTIONS & NOTES

- Technical specification available for download (content not disclosed on page)
- Operator options include manual, pneumatic, electric, etc.

BALL VALVE

Side Entry Trunnion Mounted Ball Valve

REF **EFC-448** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | NPS 2" / DN50 to NPS 60" / DN1500 |
| Pressure | Class 150 / PN10 to Class 2500 / PN420 |
| End connection | flanged / butt-weld |
| Temperature | -60°C to 250°C |
| Media | Oil, Gas, Natural gas, Process media in petroleum, chemical, metallurgy, light industry, power station, and water supply applications |

ACTUATION

- Manual
- Pneumatic
- Electric
- Hydraulic

STANDARDS

| | |
|--------|---------------|
| Design | API 6D |
|--------|---------------|

APPLICATIONS

- Petroleum
- Chemical industry
- Metallurgy
- Light industry
- Power stations
- Urban water supply
- Cryogenic / low-temperature service
- Long-distance oil and gas pipelines
- LNG



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon Steel, Stainless Steel, Alloy Steel** Ball seal **Soft seal, Triangular ring seal, Hard seal**

FEATURES

- Quarter-turn operation
- Trunnion-mounted ball for reduced operating torque on large and high-pressure sizes
- Single-piston-effect seats for both upstream and downstream sealing
- Double Block and Bleed (DBB) functionality
- Three seat seal options: soft seal, triangular ring seal, and hard seal
- Anti-ejection stem design preventing blowout under improper operation
- Fire-safe design
- Anti-static device
- Emergency sealant injection ports for valve seat seal and stem seal, each fitted with a grease valve and check valve
- Bottom drain port for cavity emptying and top vent port for cavity cleaning
- Body incorporates ball test fitting; middle flange and neck are bolted
- Welded-end variants include sleeve extensions to prevent seal interference during welding, with materials matched to pipeline
- Extended stem available for underground installation enabling above-ground operation; stem height customisable
- Accessible grease, drainage, and venting facilities on underground variants
- Compatible with manual, electric, pneumatic, and hydraulic actuators

OPTIONS & NOTES

- Technical specification available as download (content not published on page)
- Operator options listed as 'Manual, Pneumatic, Electric, etc...' — additional actuator types may be available on request

BALL VALVE

Top Entry Ball Valve

REF **EFC-449** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|-------------|--|
| Size | NPS 2" to NPS 36" |
| Pressure | Class 150 to Class 2500 |
| Temperature | -60°C to 250°C |
| Media | petroleum, oil, gas, natural gas, chemical media, water |

ACTUATION

- Manual
- Pneumatic
- Electric

STANDARDS

| | |
|--------|--------------------------|
| Design | API 6D, ISO 17292 |
|--------|--------------------------|

APPLICATIONS

- Petroleum industry
- Chemical industry
- Metallurgy
- Light industry
- Power stations
- Urban construction water supply
- Low-temperature working conditions
- Long-distance oil and gas pipelines



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon Steel, Stainless Steel, Alloy Steel**

FEATURES

- Top entry design allows in-line maintenance without pipe removal
- Floating seat provides sealing at all pressures
- Fire-safe components incorporated
- Built-in grease valve for emergency sealing and regular lubrication
- Customisable extended stem lengths for underground installations
- Anti-static construction compliant with API 6D and ISO 17292
- Dual block and bleed capability with automatic pressure relief
- Fixed ball with sliding bearings for low operating torque
- Automatic compensation design
- Double seal construction
- Vibration resistant

OPTIONS & NOTES

- Operator options listed as: Manual, Pneumatic, Electric, etc.
- Technical specification available as download (content not reproduced on page)

BALL VALVE

High Temperature Ball Valve

REF **EFC-451** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|-------------|---|
| Size | DN15 to DN600 |
| Pressure | PN16 to PN420 |
| Temperature | -60°C to 538°C |
| Media | High-temperature and high-pressure fluids, Petroleum/hydrocarbon streams, Natural gas, Steam |

ACTUATION

- Manual
- Pneumatic
- Electric

APPLICATIONS

- Petroleum catalytic cracking units
- Natural gas long-distance pipelines
- Boiler steam systems
- Petroleum industry
- Chemical industry
- Natural gas industry
- Power industry
- Metallurgy industry



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

EFC-451 · Specifications confirmed at quote

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MATERIALS

| | | | |
|------|---|------|--|
| Body | Carbon steel, Stainless steel, Alloy steel | Seat | Metal-seated (hardened/wear-resistant) |
| Ball | Hardened/wear-resistant surface | Stem | High-temperature resistant material with self-lubricating structure |

FEATURES

-
- Operating temperature range: -60 °C to 538 °C
 - Pressure rating range: PN16 to PN420 / Class 150 to Class 2500
 - Metal-seated design providing sealing performance under high temperature and pressure
 - Key component surfaces (ball and seat) hardened or manufactured from wear-resistant materials to resist erosion and wear
 - Stem transmission uses high-temperature resistant materials and self-lubricating structure for ease of operation
 - Fire-safe and anti-static design available on some configurations

OPTIONS & NOTES

-
- Fire and static electricity prevention functions available on some high-temperature and high-pressure ball valve configurations
 - Operator options listed as 'Manual, Pneumatic, Electric, etc.' — additional operator types may be available on request
 - Technical specification available for download (detail not reproduced on page)

BALL VALVE

Three-Way and Multi-Port Ball Valve

REF **EFC-453** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|-------------|--------------------------------|
| Size | 2" to 24" |
| Pressure | Class 150 to Class 2500 |
| Temperature | -60°C to 250°C |

ACTUATION

- Manual lever
- Worm gear
- Pneumatic
- Electric

STANDARDS

| | |
|--------|--|
| Design | API 6D, ASME B16.34, GB/T 19672 |
|--------|--|

APPLICATIONS

- Petroleum and petrochemical production
- Chemical processing
- Pharmaceutical industry (liquid medicine flow direction and flow control)
- Natural gas pipelines
- Water supply systems
- Petroleum refining
- Multi-product pipeline transportation
- Textile industry
- Food industry



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon steel, Stainless steel, Alloy steel**

FEATURES

- L-type configuration connects two mutually orthogonal pipes for distribution only; third port not simultaneously connected
- T-type configuration interconnects three orthogonal pipes and can cut off any one channel for diversion and confluence
- Multi-port variants provide more than three interfaces for complex fluid control including distributing, mixing, or isolating fluids
- Suitable for flow direction changes and bypass operations
- Allows multiple operations (distribution, mixing, isolation) at a single valve body

OPTIONS & NOTES

- Technical Specification available as download (content not provided on page)
- Nominal pressure also expressed as PN10~PN420

BALL VALVE

Rotary Ball Valve

REF **EFC-454** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|-------------|---|
| Size | DN200 to DN3000 |
| Pressure | PN40 |
| Temperature | -40°C to 200°C |
| Media | High-pressure fluids, High-temperature fluids, Corrosive media |

ACTUATION

- Manual
- Pneumatic
- Electric

STANDARDS

| | |
|--------|--|
| Design | API 6D, API 608, GB/T 12237, GB/T 12238, JB/T 14317 |
|--------|--|

APPLICATIONS

- Petroleum
- Chemical engineering
- Natural gas
- Power generation
- Metallurgy
- Municipal engineering
- Water pump outlets
- Pipeline systems requiring bidirectional sealing



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon steel, Stainless steel, Alloy steel**

FEATURES

- Rotating valve seat design reduces friction and wear during operation
- Bidirectional zero-leakage sealing with precision-ground sealing surfaces
- Maximum pressure rating of PN100 stated in features (General Information states dPN40 / dClass 300)
- Hardened ball with self-compensating valve seat for extended service life
- Full bore flow channel - same diameter as pipeline, resulting in low pressure drop
- Modular design allowing rapid valve seat replacement

OPTIONS & NOTES

- Technical Specification download available on product page
- Operator options listed as 'Manual, Pneumatic, Electric, etc.'

BALL VALVE

Single Driver Twin-Seal Ball Valve (Customized)

REF **EFC-455** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|-------------|---|
| Size | DN15 to DN600 |
| Pressure | PN16 / Class 150 to PN420 / Class 2500 |
| Temperature | -196°C to 200°C |
| Media | gases, liquids, vapours |

ACTUATION

- Manual
- Pneumatic actuator
- Electric actuator

STANDARDS

Design **API 6D, API 608, GB/T 12237**

APPLICATIONS

- Simultaneous control or isolation of two parallel pipelines
- Liquid pipelines in refrigeration and air conditioning systems
- Oil and gas
- Chemical
- Water
- Mining
- LNG
- Power



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon steel, Stainless steel, Alloy steel**

FEATURES

- Two ball valves share a single valve body and a single drive device
- Balls and valve seats of each valve are independent, connected via a common drive shaft
- Synchronous operation: both valves open or close simultaneously
- Reduced installation footprint compared to two independent ball valves
- Single drive device controls both valves, reducing cost and maintenance
- Configurable in different sizes and pressure classes
- Suitable for gases, liquids, and vapours
- NPS size range: NPS 1/2 to NPS 24

OPTIONS & NOTES

- Design and application need to consider specific process requirements and operating conditions to ensure long-term stable operation and system safety.
- Customised product — product inquiry required.

CHECK VALVE

API Check Valve

REF **EFC-6** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 2" to NPS 24" |
| Pressure | Class 150 to Class 2500 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.47) |
| Face-to-face | ASME B16.10 |

STANDARDS

| | |
|--------|------------------------|
| Design | API 6D, BS 1868 |
| Test | API 598 |



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|-----------|--|-------------|---|
| Body | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M | Bonnet | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M |
| Seat | ASTM A105+13CR, ASTM A105+STL, ASTM A351 CF8, ASTM A351 CF8M | Disc | ASTM A216 WCB+13CR, ASTM A351 CF8, ASTM A351 CF8M |
| Pin | SS304, SS316, A276 410, A182 F304, A182 F316 | Disc nut | ASTM A194 2H, ASTM A194 8, ASTM A194 8M |
| Hinge | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M | Fork | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M |
| Bolt | ASTM A193 B7, ASTM A193 B8, ASTM A193 B8M | Gasket | GRAPHITE+SS304, GRAPHITE+SS316 |
| Nut | ASTM A194 2H, ASTM A194 8 | Lifting eye | CARBON STEEL |
| Nameplate | SS | | |

FEATURES

- Swing check valve design
- Cast steel construction
- Multiple trim material options including 13CR and Stellite seat overlays
- Flanged end connections to ASME B16.5 and B16.47
- Butt-weld end connections to ASME B16.25
- Socket weld / threaded ends to ASME B16.11
- Swing check valve with bolted cover/bonnet secured by multiple stud bolts and nuts
- Raised face flanged ends

CHECK VALVE

API Check Valve

SECTION Dimensions per size REF EFC-6

| SIZE | D | D | D1 | D2 | B | F | N_D | L | H |
|------------------|-----|-----|-------|-----|----|-----|--------|-------|-----|
| NPS 2" / 150LB | 51 | 152 | 120.5 | 92 | 16 | 1.6 | 4-ø19 | 203 | 143 |
| NPS 2.5" / 150LB | 64 | 178 | 139.5 | 105 | 18 | 1.6 | 4-ø19 | 216 | 158 |
| NPS 3" / 150LB | 76 | 190 | 152.5 | 127 | 19 | 1.6 | 4-ø19 | 241 | 173 |
| NPS 4" / 150LB | 102 | 229 | 190.5 | 157 | 24 | 1.6 | 8-ø19 | 292 | 211 |
| NPS 6" / 150LB | 152 | 279 | 241.5 | 216 | 26 | 1.6 | 8-ø22 | 356 | 314 |
| NPS 8" / 150LB | 203 | 343 | 298.5 | 270 | 29 | 1.6 | 8-ø22 | 495 | 356 |
| NPS 10" / 150LB | 254 | 406 | 362 | 324 | 31 | 1.6 | 12-ø25 | 622 | 435 |
| NPS 12" / 150LB | 305 | 483 | 432 | 381 | 32 | 1.6 | 12-ø25 | 698 | 496 |
| NPS 14" / 150LB | 337 | 533 | 476 | 413 | 35 | 1.6 | 12-ø29 | 787 | 571 |
| NPS 16" / 150LB | 387 | 597 | 540 | 470 | 37 | 1.6 | 16-ø29 | 864 | 619 |
| NPS 18" / 150LB | 438 | 635 | 578 | 533 | 40 | 1.6 | 16-ø32 | 978 | 677 |
| NPS 20" / 150LB | 489 | 699 | 635 | 584 | 43 | 1.6 | 20-ø32 | 978 | 727 |
| NPS 24" / 150LB | 591 | 813 | 749.5 | 693 | 48 | 1.6 | 20-ø35 | 1295 | 813 |
| NPS 2" / 300LB | 51 | 165 | 127 | 92 | 23 | 1.6 | 8-ø19 | 267 | 188 |
| NPS 3" / 300LB | 76 | 210 | 168.5 | 127 | 29 | 1.6 | 8-ø22 | 318 | 215 |
| NPS 4" / 300LB | 102 | 254 | 200 | 157 | 32 | 1.6 | 8-ø22 | 356 | 233 |
| NPS 6" / 300LB | 152 | 318 | 270 | 216 | 37 | 1.6 | 12-ø22 | 444.5 | 333 |
| NPS 8" / 300LB | 203 | 381 | 330 | 270 | 42 | 1.6 | 12-ø25 | 533 | 388 |
| NPS 10" / 300LB | 254 | 445 | 387.5 | 324 | 48 | 1.6 | 16-ø29 | 622 | 460 |
| NPS 12" / 300LB | 305 | 521 | 451 | 381 | 51 | 1.6 | 16-ø32 | 711 | 519 |
| NPS 14" / 300LB | 337 | 584 | 514.5 | 413 | 54 | 1.6 | 20-ø32 | 838 | 585 |
| NPS 16" / 300LB | 387 | 648 | 571.5 | 470 | 58 | 1.6 | 20-ø35 | 864 | 630 |
| NPS 18" / 300LB | 432 | 711 | 628.5 | 533 | 61 | 1.6 | 24-ø35 | 978 | 695 |
| NPS 20" / 300LB | 483 | 775 | 686 | 584 | 64 | 1.6 | 24-ø35 | 1016 | 750 |
| NPS 24" / 300LB | 584 | 914 | 813 | 693 | 70 | 1.6 | 24-ø41 | 1346 | 840 |
| NPS 2" / 600LB | 51 | 165 | 127 | 92 | 26 | 6.4 | 8-ø19 | 292 | 215 |
| NPS 3" / 600LB | 76 | 210 | 168 | 127 | 32 | 6.4 | 8-ø22 | 356 | 265 |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API Check Valve

Dimensions per size (continued) · EFC-6

| SIZE | D | D | D1 | D2 | B | F | N_D | L | H |
|-----------------|-----|-----|-------|-----|------|-----|--------|------|------|
| NPS 4" / 600LB | 102 | 273 | 216 | 157 | 38 | 6.4 | 8-ø25 | 432 | 310 |
| NPS 6" / 600LB | 152 | 356 | 292 | 216 | 48 | 6.4 | 12-ø29 | 559 | 369 |
| NPS 8" / 600LB | 200 | 419 | 349 | 270 | 56 | 6.4 | 12-ø32 | 660 | 446 |
| NPS 10" / 600LB | 248 | 508 | 432 | 324 | 64 | 6.4 | 16-ø35 | 787 | 554 |
| NPS 12" / 600LB | 298 | 559 | 489 | 381 | 67 | 6.4 | 20-ø35 | 838 | 580 |
| NPS 14" / 600LB | 327 | 603 | 527 | 413 | 70 | 6.4 | 20-ø38 | 889 | 630 |
| NPS 16" / 600LB | 375 | 686 | 603 | 470 | 77 | 6.4 | 20-ø41 | 991 | 690 |
| NPS 18" / 600LB | 419 | 743 | 654 | 533 | 83 | 6.4 | 20-ø44 | 1092 | 810 |
| NPS 20" / 600LB | 464 | 813 | 724 | 584 | 89 | 6.4 | 24-ø44 | 1194 | 930 |
| NPS 24" / 600LB | 559 | 940 | 838 | 693 | 102 | 6.4 | 24-ø52 | 1397 | 1052 |
| NPS 2" / 900LB | 47 | 216 | 165 | 92 | 38.5 | 6.4 | 8-ø26 | 368 | 285 |
| NPS 3" / 900LB | 73 | 241 | 190.5 | 127 | 38.5 | 6.4 | 8-ø26 | 381 | 315 |
| NPS 4" / 900LB | 98 | 292 | 235 | 157 | 44.5 | 6.4 | 8-ø32 | 457 | 354 |
| NPS 6" / 900LB | 146 | 381 | 317.5 | 216 | 56 | 6.4 | 12-ø32 | 610 | 420 |
| NPS 8" / 900LB | 190 | 470 | 393.5 | 270 | 63.5 | 6.4 | 12-ø38 | 737 | 485 |
| NPS 10" / 900LB | 238 | 546 | 470 | 324 | 70 | 6.4 | 16-ø38 | 838 | 560 |
| NPS 12" / 900LB | 282 | 610 | 533.5 | 381 | 79.5 | 6.4 | 20-ø38 | 965 | 630 |
| NPS 14" / 900LB | 311 | 641 | 559 | 413 | 86 | 6.4 | 20-ø41 | 1029 | 695 |
| NPS 16" / 900LB | 356 | 705 | 616 | 470 | 89 | 6.4 | 20-ø44 | 1130 | 758 |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

CHECK VALVE

Lug Type Double Plate Check Valve

REF **EFC-26** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 8" to NPS 60" |
| Pressure | Class 150 to Class 900 |
| End connection | lug (ASME B16.5) / lug (ASME B16.47) |
| Face-to-face | API 594, API 6D, ASME B16.10 |

STANDARDS

| | |
|--------|-------------------------------------|
| Design | API 594, API 6D, ASME B16.34 |
| Test | API 598, API 6D |



MATERIALS

| | | | |
|-------|----------------------------|-------------------------|---------------------------|
| Body | WCB, 304, 316, 316L | O ring | NBR, VITON |
| Disc | 304, 316, 316L | Gland | 304, 316, 316L |
| Shaft | 304, 316, 316L | Forged body alternative | A105, C5, WC6, WC9 |

FEATURES

- Short face-to-face dimension facilitates installation, handling, storage and pipeline layout
- Dual-flap design reduces fluid resistance compared to single-disc construction
- Each flap is half the size of a full single disc, halving the rotation radius and reducing travel time to closed position by up to 50%
- Reduced flap weight minimises slamming and water hammer
- Dual-plate (double-disc) lug-type wafer check valve
- Lug-style body with threaded bolt holes for end-of-line installation
- Lifting eye/lug at top of body
- Stainless steel disc plates with visible centre hinge pin
- Heavy-wall cast body construction

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CHECK VALVE

Swing Check Valve

REF **EFC-30** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | 2" to 24" |
| Pressure | CL150 to CL2500 |
| End connection | flanged (RF) / flanged (RTJ) / butt weld (BW) |
| Face-to-face | API594, API6D, DIN3202, JB/T89373 |
| Temperature | -196°C to 560°C |

STANDARDS

| | |
|--------|------------------------------------|
| Design | API594, API6D, JB/T8937, GB/T12236 |
| Test | API598, JB/T9092 |



MATERIALS

| | | | |
|--------------|---|--------------|--|
| Body | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF3, ASTM A351 CF8M, CF8 (Cast Stainless Steel, equiv. ASTM A351 CF8) | Disc | WCB, CF8, CF8M, Monel |
| Pin | F6a, F304, F316, Monel, F304L, F316L | Disc surface | 13Cr, STL, 304, 316, Monel, 304L, 316L |
| Seat surface | 13Cr, STL, 304, 316, Monel, 304L, 316L | Stem | F6a, F304, F316, Monel, F304L, F316L |
| Seat | 13Cr, STL, 304, 316, Monel, 304L, 316L | | |

FEATURES

- Disc closes quickly with low water hammer pressure.
- Suitable for horizontal or vertical pipe installation.
- Smooth flow channel with low fluid resistance.
- Short disc stroke reduces closing impact force.
- Compact overall structure.
- Swing check valve, flanged ends
- Bolted bonnet with top cover plate
- Class 150 pressure rating
- 3-inch nominal bore casting markings visible on body

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CHECK VALVE

Wafer Lifting Check valve

REF **EFC-32** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN15 to DN1200 |
| Pressure | Class 150 to Class 2500 |
| End connection | wafer (ASME B16.5) / wafer (GB/T 9113) / wafer (JB/T 79) / wafer (HG/T 20592) |
| Face-to-face | API 594, JB/T 8937 |
| Temperature | null°C to 350°C |

STANDARDS

| | |
|--------|---------------------------------------|
| Design | API 6D, JB/T 8937, API 594 |
| Test | API 598, GB/T 13927, JB/T 9092 |

MATERIALS

| | |
|------|---|
| Body | WCB, WCA, WCC, WC6, WC9, C5, C12, LCB, LCC, CF8, CF8M, CF3, CF3M, CN7M, CF8C |
|------|---|

FEATURES

- Short face-to-face length, compact size and low weight
- Sealing configurable as soft-to-soft or metal-to-metal depending on working conditions
- Suitable for horizontal or vertical pipeline installation
- Rapid disc closure with low water hammer pressure
- Parts material and end face form and size selectable to suit working conditions or user requirements
- DN50 size marking cast into valve body
- Wafer-type single-disc check valve construction
- Spring-loaded central disc with four-spoke carrier
- Ribbed outer body profile visible on circumference

OPTIONS & NOTES

- Parts material and end face form and size can be reasonably selected according to actual working conditions or user requirements to meet various engineering needs.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.



CHECK VALVE

Slow-closing Check Valve

REF EFC-500 ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | DN15 to DN400 |
| Pressure | PN16 to PN420 |
| End connection | flanged (GB/T9113) / flanged (ASME B16.5) / butt weld (ASME B16.25) / butt weld (GB/T12224) |
| Face-to-face | GB/T12221, ASME B16.10 |
| Temperature | -29°C to 538°C |
| Media | water, oil, gas |

STANDARDS

| | |
|--------|--------------------|
| Design | GB/T12235, API 594 |
| Test | GB/T13927, API 598 |

APPLICATIONS

- water supply pipelines
- oil pipelines
- gas pipelines
- pump protection systems
- auxiliary pressure supply systems

MATERIALS

| | |
|------|--|
| Body | Carbon Steel, Stainless Steel, Alloy Steel |
|------|--|

FEATURES

- Automatic disc opening and closing actuated by medium pressure without external control
- Slow-closing design reduces impact sound and water hammer effect
- Prevents backflow of medium and reverse rotation of pumps and drive motors
- Suitable for pipelines where auxiliary system pressure may rise above system pressure
- Compact structure

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.



CHECK VALVE

Lifting Check Valve

REF **EFC-501** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN50 to DN1200 |
| Pressure | Class 150 / PN10 to Class 2500 / PN420 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.47) / flanged (GB/T 9113) / flanged (JB/T 79) / flanged (HG/T 20592) / flanged (EN 1092) / flanged (GOST 33259) / butt weld (ASME B16.25 / GB/T 12224) |
| Face-to-face | ASME B16.10, GB/T 12221, EN 558 |
| Temperature | -60°C to 538°C |
| Media | water, steam, gas, petroleum, chemical media, pharmaceutical media, fertiliser media |



STANDARDS

| | |
|--------|--|
| Design | API 6D, ASME B16.34, GB/T 12236 |
| Test | API 598, API 6D, GB/T 13927, JB/T 9092, GOST 9544 |

APPLICATIONS

- Petroleum industry pipelines
- Chemical industry pipelines
- Pharmaceutical industry pipelines
- Fertiliser industry pipelines
- Power industry pipelines
- Low-temperature service pipelines
- Small and medium diameter pipelines

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|------|---|------|-----------------------|
| Body | Carbon Steel, Stainless Steel, Alloy Steel | Seat | Hardface metal |
|------|---|------|-----------------------|

FEATURES

- Disc is the only moving part; compact structure
- Short disc stroke enables fast closing, reducing water hammer
- Bolted cover construction
- Lift disc design
- Hardface metal-to-metal sealing pair
- Guide sleeve ensures smooth disc travel and accurate re-seating on the seat
- Suitable for water, steam, gas, and other media

CHECK VALVE

Swing Check Valve

REF **EFC-502** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 2" to NPS 48" |
| Pressure | Class 150 / PN10 to Class 2500 / PN420 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.47) / flanged (EN 1092) / flanged (GB/T 9113) / flanged (JB/T 79) / flanged (HG/T 20592) / flanged (GOST 33259) / butt weld (ASME B16.25) |
| Face-to-face | ASME B16.10, GB/T 12221, EN 558 |
| Temperature | -60°C to 538°C |
| Media | Petroleum, Chemical, Pharmaceutical, Fertiliser, Power industry fluids, Low-temperature fluids |

STANDARDS

| | |
|--------|--|
| Design | API 6D, API 600, ASME B16.34, BS EN 13709, GB/T 12236 |
| Test | API 598, API 6D, GB/T 13927, JB/T 9092, GOST 9544 |

APPLICATIONS

- Oil and gas pipelines
- Chemical processing
- Pharmaceutical pipelines
- Fertiliser production
- Power generation
- Low-temperature service



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|------|---|-------|---|
| Body | Carbon Steel, Stainless Steel, Alloy Steel | Cover | Carbon Steel, Stainless Steel, Alloy Steel |
|------|---|-------|---|

FEATURES

- Compact and rational structure with reliable sealing
- Small overall dimensions and low weight
- Wide range of applicable working conditions
- Valve disc closes quickly with high responsiveness
- Minimal closing impact, reducing risk of water hammer
- Smooth flow channel with low fluid resistance

CHECK VALVE

Single Disc Check Valve

REF **EFC-505** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | NPS2 to NPS12 |
| Pressure | Class 150 / PN20 to Class 2500 / PN420 |
| End connection | flanged (ASME B16.5) / flanged (GB/T 9113) / butt weld (ASME B16.25) / butt weld (GB/T 12224) |
| Face-to-face | API 6D, GB/T 12221 |
| Temperature | -196°C to 550°C |
| Media | High temperature and high pressure working media, Toxic and harmful dangerous liquids, Petroleum / refining streams, Petrochemical streams, Water |



ACTUATION

- manual
- pneumatic
- electric
- spring-assisted closing — Prevents backflow of medium

STANDARDS

| | |
|--------|----------------------------|
| Design | API 594, GB/T 12235 |
| Test | API 6D, GB/T 13927 |

APPLICATIONS

- Power industry
- Petroleum refining
- Petrochemical
- Offshore oil
- Urban water engineering
- Chemical industry

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|------|---|--------------|----------------------------|
| Body | Carbon steel, Stainless steel, Alloy steel | Disc surface | Hard alloy cladding |
|------|---|--------------|----------------------------|

FEATURES

- Low-inertia swing-type disc design with fast response
- Adjustable closing time
- Hard alloy cladding on disc-to-seat contact surfaces for wear resistance
- Spring-assisted closing option to prevent backflow
- Compact overall structure
- No restriction on installation orientation
- Maximum working pressure Class 2500
- Fluid dynamics design to reduce water hammer impact
- Compliant with API 6D

OPTIONS & NOTES

- etc. noted alongside material and operator options, implying additional variants available on request

CHECK VALVE

Dual Plate Check Valve

REF **EFC-507** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | NPS 2" to NPS 64" |
| Pressure | Class 150 / PN10 to Class 2500 / PN420 |
| End connection | wafer (ASME B16.5 / ASME B16.47 / GB/T 9113 / JB/T 79 / HG/T 20592 / EN 1092 / GOST 33259) |
| Face-to-face | ASME B16.10, GB/T 12221, EN558 |
| Temperature | -46°C to 200°C |
| Media | water, steam, oil products, nitric acid, acetic acid, strong oxidising agents, petroleum, chemical media, pharmaceutical media, fertiliser process fluids, power industry fluids, low-temperature media |

STANDARDS

| | |
|--------|--|
| Design | API 6D, ASME B16.34, GB/T 12236 |
| Test | API 598, API 6D, GB/T 13927, JB/T 9092, GOST 9544 |

APPLICATIONS

- Petroleum industry pipelines
- Chemical industry pipelines
- Pharmaceutical industry pipelines
- Fertiliser industry pipelines
- Power industry pipelines
- Low-temperature service pipelines
- Horizontal and vertical pipeline installations
- Installations with limited access space



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|----------------------|---|-------|---|
| Body | Carbon Steel, Stainless Steel, Alloy Steel | Discs | Carbon Steel, Stainless Steel, Alloy Steel |
| Seat sealing surface | Wear-resistant overlay weld, Rubber lining | | |

FEATURES

- Two semicircular spring-loaded discs mounted on a central vertical pivot
- Wafer-style connection for compact, lightweight structure
- Disc opens from base first, minimising seal wear during opening
- Short closing stroke with spring loading for rapid closure, reducing water hammer
- Gradual closure as flow decreases; faster closure during backflow
- Spring closes top of disc first, protecting disc base and prolonging seal life
- Sealing surface options: wear-resistant weld overlay or rubber lining
- Suitable for horizontal and vertical pipeline installation
- Wide range of compatible media including oxidising agents and cryogenic fluids

CHECK VALVE

Power Plant Check Valve

REF **EFC-514** ISSUED **08 Jul 2026**

SPECIFICATIONS

| | |
|----------------|---|
| Size | DN50 to DN600 |
| Pressure | Class 600 to Class 2500 |
| End connection | butt weld (GB/T 12224 / NB/T 47044) / flanged (GB/T 9113 / ASME B16.5) |
| Face-to-face | GB/T 12221, NB/T 47044 |
| Temperature | -29°C to 650°C |

ACTUATION

- Manual
- Pneumatic
- Electric

STANDARDS

| | |
|--------|--|
| Design | GB/T 12224, ASME B16.34, NB/T 47044 |
| Test | GB/T 26480 |

APPLICATIONS

- High-temperature and high-pressure thermal power plants
- Power generation industry
- Petroleum refining



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon steel, Stainless steel, Alloy steel**

FEATURES

- Low fluid resistance due to straight-through internal medium passage
- Flow direction does not change through the valve
- Pressure self-tightening seal
- Butt-welded end connections as standard
- Rapid valve disc closure resulting in low water hammer pressure
- Simple body structure
- Good sealing performance
- Sealing surface subject to minimal erosion when fully open

OPTIONS & NOTES

- Nominal size also expressed as NPS 2~NPS 24
- Pressure rating also expressed as PN100~PN420
- Operator options listed as 'Manual, Pneumatic, Electric, etc.'

GATE VALVE

API Gate Valve

REF **EFC-2** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 2" to NPS 48" |
| Pressure | Class 150 to Class 900 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.47) |
| Face-to-face | ASME B16.10 |
| Temperature | -29°C to 425°C |
| Media | Water, Steam, Oil |

ACTUATION

- manual handwheel — QT400-18 ductile iron handwheel with bearing

STANDARDS

| | |
|--------|--------------------------------------|
| Design | API 600, BS 1414, ASME B16.34 |
| Test | API 598 |



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|---------------|--|--------------|--|
| Body | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M | Bonnet | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M |
| Wedge | ASTM A216 WCB+13CR, ASTM A216 WCB+STL, ASTM A351 CF8, ASTM A351 CF8M | Seat | ASTM A105+13CR, ASTM A105+STL, ASTM A351 CF8, ASTM A351 CF8M |
| Stem | ASTM A182 F6A, ASTM A182 F304, ASTM A182 F316 | Bolts | ASTM A193 B7, ASTM A193 B8 |
| Nuts | ASTM A194 2H, ASTM A194 8 | Gasket | GRAPHITE+SS304, GRAPHITE+SS316 |
| Back seat | A182 F6A, ASTM A351 CF8, ASTM A351 CF8M | Packing | GRAPHITE, PTFE |
| Gland | A182 F6A, A182 F304, A182 F316 | Gland flange | ASTM A216 WCB, ASTM A351 CF8 |
| Stem nut | COPPER ALLOY or D2 | Hand wheel | QT400-18 |
| Bearing gland | 1035 | Pin | 1025, SS304 |
| Grease nipple | BRASS | Nameplate | SS |
| Lock nut | A3 | Disc | ASTM A216 WCB+13CR, ASTM A216 WCB+STL, ASTM A351 CF8, ASTM A351 CF8M |

FEATURES

- Back seat provided for stem sealing
- Graphite packing standard; PTFE packing option available for CF8 and CF8M variants
- Wedge gate design
- Rising stem with stem nut in copper alloy or D2 tool steel
- Bolted bonnet construction
- Rising stem gate valve with flanged ends
- Handwheel operated
- Body casting markings indicate: DN100 (4 inch), Class 150, WCB carbon steel body

OPTIONS & NOTES

- Suitable Medium: Water, Steam, Oil, ect

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

GATE VALVE

API Gate Valve

SECTION Dimensions per size REF EFC-2

| SIZE | D | D | D1 | D2 | B | FN_BOLT_HOLE | L | H | W |
|------------------|-----|-----|-------|-----|----|--------------|-----|------|-----|
| NPS 2" (150LB) | 51 | 152 | 120.5 | 92 | 16 | 1.6 4-ø19 | 178 | 354 | 200 |
| NPS 2.5" (150LB) | 64 | 178 | 139.5 | 105 | 18 | 1.6 4-ø19 | 190 | 384 | 220 |
| NPS 3" (150LB) | 76 | 190 | 152.5 | 127 | 19 | 1.6 4-ø19 | 203 | 440 | 250 |
| NPS 4" (150LB) | 102 | 229 | 190.5 | 157 | 24 | 1.6 8-ø19 | 229 | 495 | 280 |
| NPS 5" (150LB) | 127 | 254 | 216 | 186 | 24 | 1.6 8-ø22 | 254 | 550 | 300 |
| NPS 6" (150LB) | 152 | 279 | 241.5 | 216 | 26 | 1.6 8-ø22 | 267 | 620 | 300 |
| NPS 8" (150LB) | 203 | 343 | 298.5 | 270 | 29 | 1.6 8-ø22 | 292 | 768 | 350 |
| NPS 10" (150LB) | 254 | 406 | 362 | 324 | 31 | 1.6 12-ø25 | 330 | 937 | 400 |
| NPS 12" (150LB) | 305 | 483 | 432 | 381 | 32 | 1.6 12-ø25 | 356 | 1108 | 450 |
| NPS 14" (150LB) | 337 | 533 | 476 | 413 | 35 | 1.6 12-ø29 | 381 | 1253 | 500 |
| NPS 16" (150LB) | 387 | 597 | 540 | 470 | 37 | 1.6 16-ø29 | 406 | 1420 | 600 |
| NPS 18" (150LB) | 438 | 635 | 578 | 533 | 40 | 1.6 16-ø32 | 432 | 1500 | 680 |
| NPS 20" (150LB) | 489 | 699 | 635 | 584 | 43 | 1.6 20-ø32 | 457 | 1641 | 720 |
| NPS 24" (150LB) | 591 | 813 | 749.5 | 693 | 48 | 1.6 20-ø35 | 508 | 2048 | 600 |
| NPS 28" (150LB) | 692 | 927 | 864 | 800 | 72 | 1.6 28-ø35 | 610 | 2450 | 600 |
| NPS 30" (150LB) | 743 | 985 | 914.4 | 858 | 75 | 1.6 28-ø35 | 610 | 2953 | 600 |
| NPS 2" (300LB) | 51 | 165 | 127 | 92 | 23 | 1.6 8-ø19 | 216 | 368 | 220 |
| NPS 2.5" (300LB) | 64 | 190 | 149 | 105 | 26 | 1.6 8-ø22 | 241 | 391 | 220 |
| NPS 3" (300LB) | 76 | 210 | 168.5 | 127 | 29 | 1.6 8-ø22 | 283 | 442 | 280 |
| NPS 4" (300LB) | 102 | 254 | 200 | 157 | 32 | 1.6 8-ø22 | 305 | 507 | 300 |
| NPS 5" (300LB) | 127 | 279 | 235 | 186 | 35 | 1.6 8-ø22 | 381 | 570 | 300 |
| NPS 6" (300LB) | 152 | 318 | 270 | 216 | 37 | 1.6 12-ø22 | 403 | 653 | 350 |
| NPS 8" (300LB) | 203 | 381 | 330 | 270 | 42 | 1.6 12-ø25 | 419 | 782 | 400 |
| NPS 10" (300LB) | 254 | 445 | 387.5 | 324 | 48 | 1.6 16-ø29 | 457 | 990 | 450 |
| NPS 12" (300LB) | 305 | 521 | 451 | 381 | 51 | 1.6 16-ø32 | 502 | 1155 | 500 |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

API Gate Valve

Dimensions per size (continued) · EFC-2

| SIZE | D | D | D1 | D2 | B | FN_BOLT_HOLE | L | H | W |
|------------------|-----|------|-------|------|------|--------------|------|------|-----|
| NPS 14" (300LB) | 337 | 584 | 514.5 | 413 | 54 | 1.6 20-ø32 | 762 | 1253 | 460 |
| NPS 16" (300LB) | 387 | 648 | 571.5 | 470 | 58 | 1.6 20-ø35 | 838 | 1420 | 530 |
| NPS 18" (300LB) | 432 | 711 | 628.5 | 533 | 61 | 1.6 24-ø35 | 914 | 1530 | 530 |
| NPS 20" (300LB) | 483 | 775 | 686 | 584 | 64 | 1.6 24-ø35 | 991 | 1920 | 530 |
| NPS 24" (300LB) | 584 | 914 | 813 | 693 | 70 | 1.6 24-ø41 | 1143 | 2010 | 530 |
| NPS 28" (300LB) | 686 | 1035 | 940 | 800 | 86 | 1.6 28-ø45 | 1346 | 2596 | 600 |
| NPS 30" (300LB) | 737 | 1092 | 997 | 858 | 92 | 1.6 28-ø48 | 1397 | 2767 | 600 |
| NPS 36" (300LB) | 889 | 1270 | 1168 | 1023 | 105 | 1.6 32-ø54 | 1727 | 3159 | 600 |
| NPS 2" (600LB) | 51 | 165 | 127 | 92 | 26 | 6.4 8-ø19 | 292 | 370 | 220 |
| NPS 2.5" (600LB) | 64 | 190 | 149 | 100 | 29 | 6.4 8-ø22 | 330 | 442 | 220 |
| NPS 3" (600LB) | 76 | 210 | 168 | 127 | 32 | 6.4 8-ø22 | 356 | 470 | 280 |
| NPS 4" (600LB) | 102 | 273 | 216 | 157 | 38 | 6.4 8-ø25 | 432 | 557 | 300 |
| NPS 5" (600LB) | 127 | 330 | 266.5 | 186 | 45 | 6.4 8-ø29 | 508 | 626 | 350 |
| NPS 6" (600LB) | 152 | 356 | 292 | 216 | 48 | 6.4 12-ø29 | 559 | 732 | 450 |
| NPS 8" (600LB) | 200 | 419 | 349 | 270 | 56 | 6.4 12-ø32 | 660 | 866 | 500 |
| NPS 10" (600LB) | 248 | 508 | 432 | 324 | 64 | 6.4 16-ø35 | 787 | 1002 | 650 |
| NPS 12" (600LB) | 298 | 559 | 489 | 381 | 67 | 6.4 20-ø35 | 838 | 1230 | 530 |
| NPS 14" (600LB) | 327 | 603 | 527 | 413 | 70 | 6.4 20-ø38 | 889 | 1443 | 530 |
| NPS 16" (600LB) | 385 | 686 | 603 | 470 | 77 | 6.4 20-ø41 | 991 | 1593 | 530 |
| NPS 18" (600LB) | 419 | 743 | 654 | 533 | 83 | 6.4 20-ø44 | 1092 | 1652 | 530 |
| NPS 20" (600LB) | 464 | 813 | 724 | 584 | 89 | 6.4 24-ø44 | 1194 | 1925 | 600 |
| NPS 24" (600LB) | 559 | 940 | 838 | 693 | 102 | 6.4 24-ø52 | 1397 | 2184 | 600 |
| NPS 28" (600LB) | 670 | 1073 | 965.2 | 800 | 112 | 6.4 28-ø54 | 1549 | 2548 | 600 |
| NPS 2" (900LB) | 47 | 216 | 165 | 92 | 38.5 | 6.4 8-ø26 | 368 | 383 | 280 |
| NPS 3" (900LB) | 73 | 241 | 190.5 | 127 | 38.5 | 6.4 8-ø26 | 381 | 507 | 300 |
| NPS 4" (900LB) | 98 | 292 | 235 | 157 | 44.5 | 6.4 8-ø32 | 457 | 603 | 350 |
| NPS 5" (900LB) | 121 | 349 | 279.5 | 186 | 51 | 6.4 8-ø35 | 559 | 686 | 450 |
| NPS 6" (900LB) | 146 | 381 | 317.5 | 216 | 56 | 6.4 12-ø32 | 610 | 802 | 500 |
| NPS 8" (900LB) | 190 | 470 | 393.5 | 270 | 63.5 | 6.4 12-ø38 | 737 | 956 | 600 |
| NPS 10" (900LB) | 238 | 546 | 470 | 324 | 70 | 6.4 16-ø38 | 838 | 1112 | 530 |
| NPS 12" (900LB) | 282 | 610 | 533.5 | 381 | 79.5 | 6.4 20-ø38 | 965 | 1370 | 530 |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

GATE VALVE

Cast Steel Gate Valve

REF **EFC-15** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | NPS 2" to NPS 36" |
| Pressure | Class 150 to Class 2500 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.5) / butt weld |
| Face-to-face | ASME B16.10 |

ACTUATION

- handwheel
- worm gear
- electric actuator
- pneumatic actuator
- hydraulic actuator

STANDARDS

| | |
|--------|---|
| Design | API 602, ASME B16.34, BS 5352, BS 6364 |
| Test | API 598 |



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|------|--|------|--|
| Body | ASTM A216 WCB, ASTM A351 CF8, WCB (cast carbon steel) | Disc | WCB, CF8, CF8M, MONEL |
| Stem | F6, F304, F316, MONEL | Seat | 13Cr STL, 304 STL, 316 STL, MONEL |

FEATURES

- Compact structure with small envelope dimensions and good rigidity.
- Elastic gate structure that automatically compensates for valve body deformation caused by abnormal load or temperature during operation.
- Rolling bearings fitted in operating device for 150LB manual valves e NPS 10" and 600LB - 2500LB valves e NPS 6" to reduce operating torque.
- Materials, trim, and fasteners can be combined according to user requirements or actual working conditions.
- Replaceable seat for valves d NPS 10".
- DN125 nominal bore
- PN16 pressure class
- Flanged end connections
- Handwheel operated (blue spoked handwheel)
- Rising stem gate valve
- Bolted bonnet construction

OPTIONS & NOTES

- The main materials, trim and fasteners can be reasonably combined according to user requirements or actual working conditions.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

GATE VALVE

Forged Steel Gate Valve

REF **EFC-21** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 3/4" to NPS 2" |
| Pressure | Class 150 to Class 2500 |
| End connection | flanged / socket weld / butt weld / flanged |
| Face-to-face | ASME B16.10 |
| Temperature | -29°C to 500°C |

STANDARDS

| | |
|--------|---------|
| Design | API 602 |
| Test | API 598 |



MATERIALS

| | | | |
|---------------|--|------|--|
| Body | A105, A182 F22, A182 F304(L), A182 F316(L) | Seat | A276 420, A276 304, A276 304(L), A276 316(L) |
| Disc | A182 F430&410, A182 F304, A182 F304(L), A182 F316(L) | Stem | A182 F6, A182 F304, A182 F304(L), A182 F316(L) |
| Gland packing | A276 410, A182 F304(L), A182 F316(L) | | |

FEATURES

- Smooth bore channel with low flow coefficient; sealing surface less susceptible to medium erosion.
- Sealing surface constructed from alloy steel or hard alloy with wear and scratch resistance.
- Flexible graphite filler used for gland packing, providing sealing and ease of operation.
- Bidirectional flow with no flow disturbance or pressure reduction.
- Packing replacement and maintenance can be performed under online shutdown conditions without affecting system operation.
- Body markings visible: '800' (Class 800 pressure rating), 'A105N' (forged carbon steel body material), '1' (DN25 / 1 inch nominal bore), bolted bonnet construction, handwheel operated, socket weld end connections

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

GATE VALVE

Stainless Steel Gate Valve

REF **EFC-28** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 2" to NPS 32" |
| Pressure | Class 150 to Class 900 |
| End connection | flanged (ASME B16.5) / ring-type joint (ASME B16.5) / butt weld |
| Face-to-face | ASME B16.10 |
| Media | chemicals, corrosive media, abrasive media, slurries, mixed solids |

ACTUATION

- handwheel
- worm gear
- electric actuator
- pneumatic actuator
- hydraulic actuator

STANDARDS

| | |
|--------|--|
| Design | API602, ASME B16.34, BS 5352, BS 6364 |
| Test | API598 |

APPLICATIONS

- oil and gas
- chemical and pharmaceuticals
- marine
- water and wastewater treatment
- manufacturing



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|--------------|---|--------|--|
| Body cap | OCr18Ni9, OOCr18Ni10, OOCr18Ni9Mo2, OOCr18Ni10Mo2, WCB | Stem | OCr18Ni9, OOCr18Ni10, OOCr18Ni9Mo2, OOCr18Ni10Mo2, 1Cr3 |
| Stem packing | PTFE, Graphite | Gasket | 304+PTFE, 304L+PTFE, 316+PTFE, 316L+PTFE, Graphite+304 |
| Gland flange | OCr18Ni9, OOCr18Ni10, OOCr18Ni9Mo2, OOCr18Ni10Mo2, WCB | Bolt | Stainless Steel, 34GtMoA |
| Nut | Stainless Steel, 45 | Body | OCr18Ni9, OOCr18Ni10, OOCr18Ni9Mo2, OOCr18Ni10Mo2, WCB |

FEATURES

- Gate and seat sealing surfaces produced with cemented carbide overlay welding of differing hardness
- Valve stem tempered and surface nitrided for corrosion resistance, scratch resistance, and wear resistance
- Flexible gate structure with thrust bearings on medium and large diameters to reduce friction
- Compatible with multiple piping flange standards and flange sealing surface forms
- Flanged end connections visible on both ends
- Rising stem with external thread
- Spoked blue handwheel operator
- Bolted bonnet construction
- Open yoke stem design
- Body casting markings indicate DN50, PN16, CF8 (cast stainless steel)

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

GATE VALVE

Commodity Cast Steel Gate Valve

REF **EFC-494** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|-------------|---|
| Size | DN50 to DN1000 |
| Pressure | Class 150 to Class 2500 |
| Temperature | -29°C to 540°C |
| Media | High-temperature and high-pressure working media, Toxic and harmful risk liquids, General process fluids |

STANDARDS

| | |
|--------|--------------------------------------|
| Design | API 600, API 603, ASME B16.34 |
|--------|--------------------------------------|

APPLICATIONS

- Power industry
- Petroleum refining
- Petrochemical industry
- Marine oil
- Tap water engineering
- Urban construction
- Chemical industry

MATERIALS

| | |
|------|---|
| Body | Carbon Steel, Stainless Steel, Alloy Steel |
|------|---|

FEATURES

- Low fluid resistance; internal medium channel is straight-through with no change in flow direction
- Low operating torque required for opening and closing
- Simple body structure with good sealing performance
- Reduced wear on sealing surfaces when fully open
- Guide mechanism in valve body prevents gate rotation during operation
- Gate does not contact valve seat before final closure, reducing seat wear
- Bi-directional flow capability; medium can flow from either side
- Not susceptible to water hammer

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

EFC-494 · Specifications confirmed at quote

sales@euroflowcontrol.com · euroflowcontrol.com



GATE VALVE

Non-Rising Stem Gate Valve

REF **EFC-495** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|-------------|--|
| Size | NPS2 to NPS24 |
| Pressure | Class 600 / PN100 to Class 2500 / PN420 |
| Temperature | -29°C to 540°C |
| Media | High-temperature high-pressure working media, Toxic and hazardous liquids, General process fluids |

ACTUATION

- Handwheel (manual)

STANDARDS

| | |
|--------|--------------------------------------|
| Design | API 600, API 603, ASME B16.34 |
|--------|--------------------------------------|

APPLICATIONS

- Power industry
- Petroleum refining
- Petrochemical industry
- Marine oil
- Tap water engineering / urban construction
- Chemical industry



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon Steel, Stainless Steel, Alloy Steel**

FEATURES

- Stem and nut arranged on the gate plate; stem rotates but does not rise outside the valve
- Trapezoidal thread at base of stem converts rotary motion to linear gate travel
- Guide mechanism in valve body prevents gate rotation during opening and closing
- Wedge gate does not contact seat surface prior to final closure, reducing seat wear
- Low fluid resistance; straight-through internal flow path with no change in flow direction
- Low opening and closing torque
- Bidirectional flow installation
- Reduced risk of water hammer
- Full bore opening when gate height equals valve bore diameter
- Valve stem apex used as full-open position indicator

OPTIONS & NOTES

- At full open position, the open state cannot be monitored during operation; stem vertex is used as full-open indicator
- Main materials listed as 'Carbon Steel, Stainless Steel, Alloy Steel, Etc.' — additional materials available on request

GATE VALVE

Power Plant Gate Valve

REF **EFC-513** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN50 to DN600 |
| Pressure | Class 600 to Class 2500 |
| End connection | butt weld (GB/T12224, NB/T47044) / flanged (GB/T9113, ASME B16.5) |
| Face-to-face | GB/T12221, NB/T47044 |
| Temperature | -29°C to 650°C |

ACTUATION

- manual
- pneumatic
- electric

STANDARDS

| | |
|--------|--|
| Design | GB/T12224, ASME B16.34, NB/T47044 |
| Test | GB/T26480 |

APPLICATIONS

- Thermal power station pipeline systems
- High-temperature and high-pressure power generation applications
- Oil refining
- Power industry



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon Steel, Stainless Steel, Alloy Steel**

FEATURES

- Low fluid resistance-internal medium channel is straight-through without change in flow direction
- Pressure self-sealing; both ends are welded connections
- Low opening and closing torque
- Simple body structure
- Guide mechanism in valve body prevents gate rotation during opening and closing, ensuring accurate seating
- Wedge gate does not contact valve seat before final closure, reducing sealing surface wear
- Bidirectional flow-medium can flow from either direction
- Generally installed horizontally in pipeline
- Reduced susceptibility to water hammer

OPTIONS & NOTES

- Etc. noted for materials — additional material options may be available on request
- Operator options listed as 'Manual, Pneumatic, Electric, etc.' — further options may be available

GATE VALVE

Sampling Double Disc Gate Valve

REF **EFC-517** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | DN25 to DN600 |
| Pressure | PN16 to PN420 |
| End connection | flanged (ASME B16.5) / flanged (GB/T 9113) / butt weld (ASME B16.25) / butt weld (GB/T 12224) |
| Face-to-face | ASME B16.10, GB/T 12221 |
| Temperature | -46°C to 550°C |
| Media | acidic media, alkaline media, chemical process fluids, pharmaceutical process fluids, food processing fluids |



ACTUATION

- manual
- pneumatic
- electric

STANDARDS

| | |
|--------|----------------------------|
| Design | API 600, GB/T 12234 |
| Test | API 598, GB/T 26480 |

APPLICATIONS

- Industrial sampling
- Chemical processing
- Pharmaceutical processing
- Refining
- Food processing
- Reactor sampling under crystallisation conditions
- Frequent chemical analysis of media

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon Steel, Stainless Steel, Alloy Steel**

FEATURES

- Double-gate structure with independent sealing system per gate for complete medium isolation during sampling
- Bidirectional sealing in both forward and reverse directions to prevent backflow
- Body and key components constructed from corrosion-resistant materials suitable for acidic and alkaline environments
- Available with manual, pneumatic, or electric actuation
- Stable sampling flow to minimise media fluctuation
- Compact structure designed for ease of disassembly and maintenance

OPTIONS & NOTES

- Operator options listed as 'Manual, Pneumatic, Electric, etc..'

BUTTERFLY VALVE

High-performance Butterfly Valve

REF **EFC-24** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 2" / DN50 to NPS 48" / DN4000 |
| Pressure | PN10 / Class 150 to PN50 / Class 300 |
| End connection | wafer/clamp / flanged (ANSI B16.1 / BS 4504 / DIN 2501) / lug |
| Face-to-face | API 609, MSS SP-67, DIN 3202, BS EN 558-1 |
| Temperature | -196°C to 300°C |
| Media | petroleum, petrochemical, natural gas, electric power, water |

ACTUATION

- pneumatic — ISO 5211
- electric — ISO 5211
- gas-liquid linkage — ISO 5211

STANDARDS

| | |
|--------|--------------------|
| Design | API 609, MSS SP-67 |
| Test | API 598 |

APPLICATIONS

- Petroleum
- Petrochemical
- Natural gas
- Electric power
- Water conservancy



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|---------------|---|------|---|
| Body | WCB, A351 Gr CF8, A351 Gr CF8M, A351 Gr CF3M | Disc | A351 Gr CF8, A351 Gr CF8M, A351 Gr CF3M |
| Retainer | A351 Gr CF8, A351 Gr CF8M, A351 Gr CF3M | Seat | PTFE, RPTFE |
| Bushing | PTFE+316SS | Stem | A182 F304, A182 F316, A564 Gr.630, A479 Gr.XM-19 |
| Pin | A240 Gr.316 | Seal | PTFE |
| Gland packing | PTFE, RPTFE | | |

FEATURES

- Double eccentric structure design
- Lip sealing structure achieves two-way bubble-level zero leakage under elastic interference and self-sealing
- Interchangeable PTFE seats compatible with a variety of working conditions
- Anti-blowout stem design
- Low-leakage carbon fibre bowl-type combined packing structure available for fugitive emission service, meeting ISO 15848 and API 622
- Tangential stem pin is half in the disc and half in the stem; tangential positioning transfers squeeze force rather than shear stress to the connection
- ISO 5211 top flange for mounting pneumatic, electric, and gas-liquid linkage actuators
- Double-flanged butterfly valve with worm gear (handwheel) actuator
- Visible disc with metallic seat ring retained by bolts around disc periphery
- Blue epoxy-coated ductile iron body construction apparent
- Flanged end connections with visible bolt holes on both flanges

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Triple Offset Butterfly Valve

REF **EFC-106** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | DN50 to DN600 |
| Pressure | Class 150 |
| End connection | wafer (ANSI B16.5) / lug (ANSI B16.5) / flanged (ANSI B16.5) |
| Temperature | -20°C to 420°C |
| Media | oil, gas, water |

ACTUATION

- worm gear handwheel — Worm Gear (item 10)



MATERIALS

| | | | |
|----------------------|----------------------|--------------------------|-------------------------|
| Body | ASTM A216 WCB | Multi layer sealing ring | SS304 + Graphite |
| Seat protection ring | ASTM SS 316 | Disc | ASTM SS 316 |
| Stem | ASTM A182 F6 | Packing | Graphite |
| Flange gland | ASTM A216 WCB | Bolt | ASTM A193 B7 |
| Nut | ASTM A194 2H | | |

FEATURES

- Triple offset disc geometry
- Multi-layer sealing ring construction
- Seat protection ring
- Fire safe design
- Worm gear operated

PRESSURE-TEMPERATURE RATING

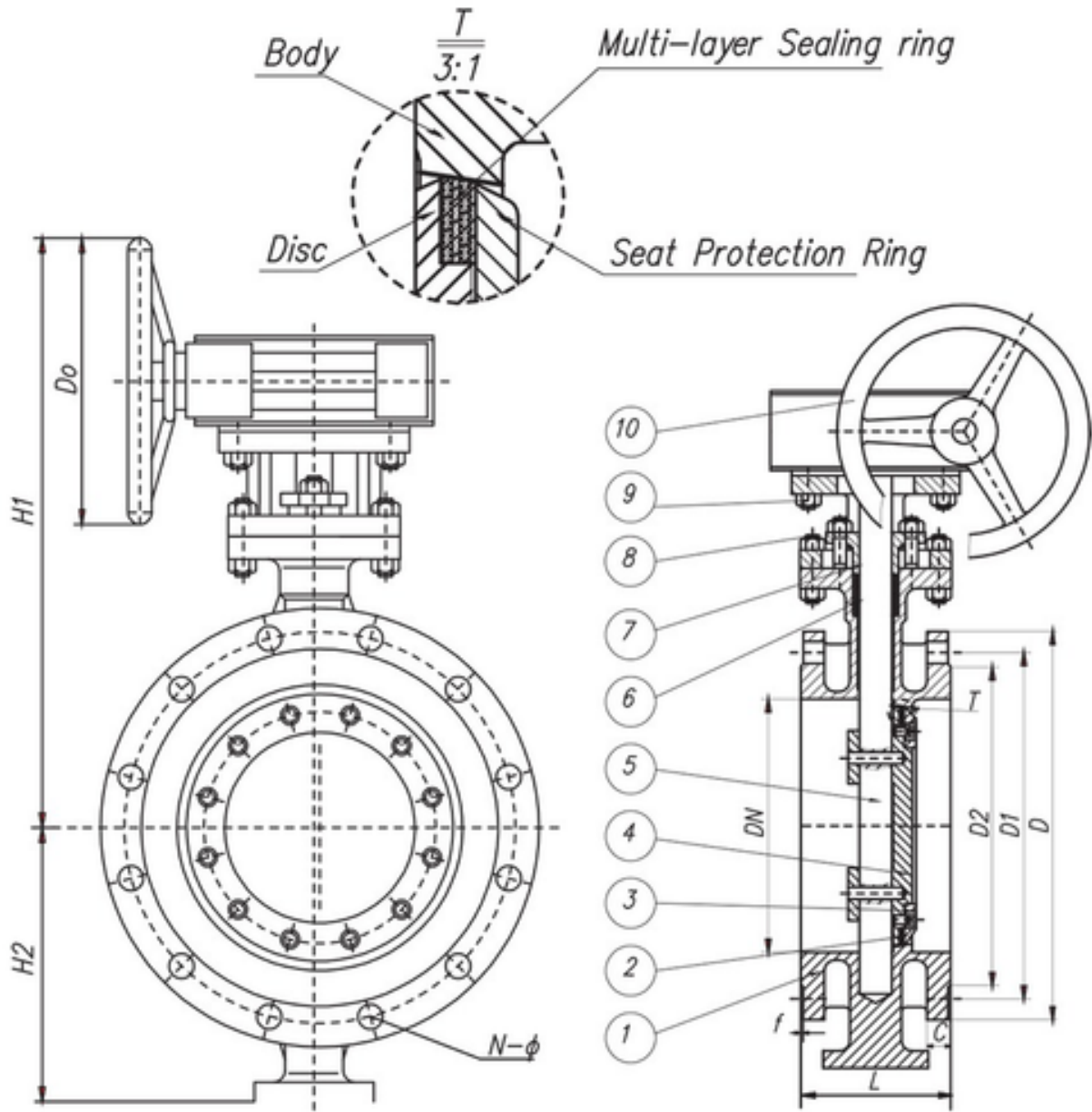
| CLASS | TEMPERATURE | MAX PRESSURE |
|--------------|--------------------|---------------------|
| 150 Lb | -99°C | 3.1 MPa |
| 150 Lb | 500°C | 3.1 MPa |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Triple Offset Butterfly Valve

SECTION Technical drawing 1 REF EFC-106



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Triple Offset Butterfly Valve

SECTION Dimensions per size REF EFC-106

| SIZE | L | D | D1 | D2 | N-Ø | C | F | H1 | H2 | DO |
|------|-----|-----|-------|-----|-------|------|-----|-----|-----|-----|
| 2" | 108 | 152 | 120.7 | 92 | 4-19 | 16.0 | 1.6 | 290 | 110 | 145 |
| 3" | 114 | 191 | 139.7 | 127 | 4-19 | 19.5 | 1.6 | 315 | 130 | 145 |
| 4" | 127 | 229 | 152.4 | 157 | 8-19 | 24.0 | 1.6 | 360 | 170 | 145 |
| 5" | 140 | 254 | 190.5 | 186 | 8-22 | 24.0 | 1.6 | 470 | 185 | 290 |
| 6" | 140 | 279 | 216.0 | 216 | 8-22 | 25.5 | 1.6 | 505 | 210 | 290 |
| 8" | 152 | 343 | 241.3 | 270 | 12-25 | 29.0 | 1.6 | 570 | 240 | 340 |
| 10" | 165 | 406 | 298.5 | 324 | 12-25 | 30.5 | 1.6 | 610 | 285 | 340 |
| 12" | 178 | 483 | 362.0 | 381 | 12-25 | 32.0 | 1.6 | 690 | 310 | 340 |
| 14" | 190 | 533 | 431.8 | 413 | 12-28 | 35.0 | 1.6 | 730 | 350 | 380 |
| 16" | 216 | 597 | 476.3 | 470 | 16-28 | 37.0 | 1.6 | 770 | 375 | 380 |
| 18" | 222 | 635 | 539.8 | 533 | 16-32 | 40.0 | 1.6 | 835 | 405 | 380 |
| 20" | 229 | 699 | 635.0 | 584 | 20-32 | 43.0 | 1.6 | 925 | 455 | 380 |
| 24" | 267 | 813 | 749.3 | 692 | 20-35 | 48.0 | 1.6 | 940 | 510 | 380 |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Metal Seated Eccentric Butterfly Valve

REF **EFC-288** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | DN50 to DN600 |
| Pressure | Class 150 |
| End connection | flanged (ASME B16.5) |
| Face-to-face | ASME B16.10 |
| Temperature | -29°C to 200°C |
| Media | Crude Oil, Natural Gas, steam, gas, slurry |

ACTUATION

- pneumatic — Pneumatic operated

STANDARDS

| | |
|--------|-------------------------|
| Design | BS 1868, API 609 |
| Test | API 6D, API 598 |

APPLICATIONS

- Power plants
- Petrochemical facilities
- Heavy industrial environments
- High-temperature pipelines
- High-pressure pipelines
- Abrasive media service



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | |
|------|--|
| Body | A216 Gr. WCB, A216 Gr. WCC, A216 Gr. WCA, A352 Gr. LCB, A352 Gr. LCC, A352 Gr. LC1, A217 Gr. WC6, A217 Gr. WC9, A217 Gr. C5, A217 Gr. C12, A217 Gr. C12A, A351 Gr. CF8, A351 Gr. CF8M, A351 Gr. CF3, A351 Gr. CF3M, A351 Gr. CF8C, CN7M alloy 20, CN3M alloy 20 modified, CT15C, A995 Gr. 4A, A995 Gr. 5A, A995 Gr. CE8MN, A995 Gr. CD6MN, A995 Gr. CD3MN, B148 C95500, B148 C95600, B148 C95800, M30C, M35-1, CZ100, CY40 inconel 600, CW2m Hastelloy C4, N12MV Hastelloy B, CW12MW Hastelloy C276, CU5MCuC Incoloy 825, CW6MC Incoloy 625 |
|------|--|

FEATURES

- Triple eccentric / offset disc design minimises wear during operation
- Metal-to-metal seating
- Quarter-turn operation
- Multiple body material options including carbon steel, stainless steel, alloy steel, super duplex, aluminium bronze, Monel, Inconel, Hastelloy, and Incoloy
- Corrosion-resistant coating options
- Triple-offset (triple eccentric) disc geometry
- Flanged body with raised-face flanges
- Gearbox (worm gear) actuator fitted as standard shown
- Multi-level seal packing collar on disc/body seating area
- Clamp-retained seat arrangement
- Separate clamp component securing seat packing collar
- Body and disc identified as distinct sealing components in sectional callout
- Part numbering 1-12 visible on sectional diagram (detail not fully legible)
- Dimension references: L (face-to-face), DN (nominal bore), D1 (bolt circle diameter), n-M (number and size of flange bolts)
- Metal-to-metal seat configuration visible in product photos
- Available in multiple finish/material variants: blue-painted ductile iron/cast iron body with bronze disc (index 0); stainless steel body and disc (index 1 and 2); red-painted body (index 3); bare stainless/carbon steel (index 4 and 5)

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Metal Seated Eccentric Butterfly Valve

SECTION Dimensions per size REF EFC-288

| SIZE | L | D1 | N-M |
|-------|-----|-----|--------|
| DN50 | 43 | 125 | 4-M16 |
| DN65 | 46 | 145 | 4-M16 |
| DN80 | 64 | 160 | 8-M16 |
| DN100 | 64 | 180 | 8-M16 |
| DN125 | 70 | 210 | 8-M16 |
| DN150 | 76 | 240 | 8-M20 |
| DN200 | 89 | 295 | 12-M20 |
| DN250 | 114 | 355 | 12-M24 |
| DN300 | 114 | 410 | 12-M24 |
| DN350 | 127 | 470 | 16-M24 |
| DN400 | 140 | 525 | 16-M27 |
| DN450 | 152 | 585 | 20-M27 |
| DN500 | 152 | 650 | 20-M30 |
| DN600 | 154 | 770 | 20-M33 |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

BUTTERFLY VALVE

Triple Eccentric Flange Butterfly Valve

REF **EFC-313** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|-------------------------------|
| Size | 16 inch to 16 inch |
| Pressure | Class 150 |
| End connection | flanged (ASME B16.5) |
| Face-to-face | ASME B16.10 |
| Temperature | -29°C to 200°C |
| Media | Crude Oil, Natural Gas |

ACTUATION

- manual
- pneumatic — Pneumatic Operated
- electric

STANDARDS

| | |
|--------|-------------------------|
| Design | BS 1868, API 609 |
| Test | API 6D, API 598 |

APPLICATIONS

- Power generation
- Chemical processing
- Marine systems



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|--------------------|--|-------------------|-----------------------|
| Body | CF8M, A216 Gr. WCB, A216 Gr. WCC, A216 Gr. WCA, A352 Gr. LCB, A352 Gr. LCC, A352 Gr. LC1, A217 Gr. WC6, A217 Gr. WC9, A217 Gr. C5, A217 Gr. C12, A217 Gr. C12A, A351 Gr. CF8, A351 Gr. CF8M, A351 Gr. CF3, A351 Gr. CF3M, A351 Gr. CF8C, CN7M alloy 20, CN3M alloy 20 modified, CT15C, A995 Gr. 4A, A995 Gr. 5A, A995 Gr. CE8MN, A995 Gr. CD6MN, A995 Gr. CD3MN, B148 C95500, B148 C95600, B148 C95800, M30C, M35-1, CZ100, CY40 inconel 600, CW2m Hastelloy C4, N12MV Hastelloy B, CW12MW Hastelloy C276, CU5MCuC Incoloy 825, CW6MC Incoloy 625 | Disc | CF8 |
| Stem | SS410 | Seat sealing ring | SS304+Graphite |
| Packing | Flexible Graphite | Packing flange | WCB |
| Connecting support | WCB | Stud | CS |
| Washers | CS | Bolt | CS, SS304 |
| Disc flange | SS304 | Bushing | Nitriding |
| Pon | SS304 | | |

FEATURES

- Triple offset (triple eccentric) disc geometry
- Metal-to-metal sealing for zero-leakage shut-off
- Reduced friction between disc and seat during operation
- Suitable for both throttling and isolation duty
- Flanged end connection for stable installation in large pipeline systems
- Compatible with manual, pneumatic, or electric actuators
- Triple-offset (triple-eccentric) disc geometry visible on multiple units
- Flanged end connections (double-flanged body)
- Worm gear actuator fitted as standard on multiple variants
- Gear operator with handwheel operation
- Extended stem/bonnet arrangement visible on one variant (image 2)
- Metal seat sealing visible on disc face
- Available in stainless steel body/disc construction (images 0, 4)
- Available in carbon steel / ductile iron body with stainless disc (images 2, 5)
- Red-painted body variant with stainless disc (image 3) - indicative of fire-safe or high-pressure service
- Blue-painted cast iron/ductile iron body variant (images 2, 5)
- Multiple units shown ganged together indicating batch/manifold configurations

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OPTIONS & NOTES

- Optional actuators—manual, pneumatic, or electric—can be added to suit automation requirements.

BUTTERFLY VALVE

Triple Eccentric Wafer Butterfly Valve

REF **EFC-315** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|-------------------------------|
| Size | 16" to 16" |
| Pressure | Class 150 |
| End connection | wafer (ASME B16.5) |
| Face-to-face | ASME B16.10 |
| Temperature | -29°C to 200°C |
| Media | Crude Oil, Natural Gas |

ACTUATION

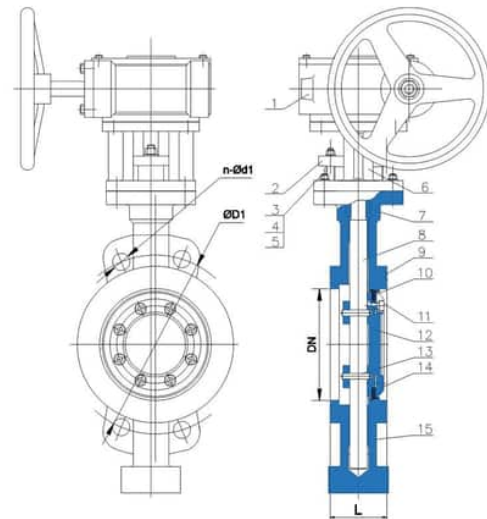
- pneumatic — Pneumatic operated
- manual

STANDARDS

| | |
|--------|-------------------------|
| Design | BS 1868, API 609 |
| Test | API 6D, API 598 |

APPLICATIONS

- Oil and gas
- Chemical processing
- Energy



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | |
|------|--|
| Body | A216 Gr. WCB, A216 Gr. WCC, A216 Gr. WCA, A352 Gr. LCB, A352 Gr. LCC, A352 Gr. LC1, A217 Gr. WC6, A217 Gr. WC9, A217 Gr. C5, A217 Gr. C12, A217 Gr. C12A, A351 Gr. CF8, A351 Gr. CF8M, A351 Gr. CF3, A351 Gr. CF3M, A351 Gr. CF8C, CN7M alloy 20, CN3M alloy 20 modified, CT15C, A995 Gr. 4A, A995 Gr. 5A, A995 Gr. CE8MN, A995 Gr. CD6MN, A995 Gr. CD3MN, B148 C95500, B148 C95600, B148 C95800, M30C, M35-1, CZ100, CY40 inconel 600, CW2M Hastelloy C4, N12MV Hastelloy B, CW12MW Hastelloy C276, CU5MCuC Incoloy 825, CW6MC Incoloy 625 |
|------|--|

FEATURES

- Triple offset (triple eccentric) design
- Metal-to-metal sealing
- Zero leakage
- Reduced seat wear during operation
- Minimal friction during opening and closing
- Wafer-type body for installation between pipeline flanges
- Triple-offset / high-performance butterfly valve body
- Wafer/lug body style with bolt-hole drilling pattern for PN10, PN16 and ANSI 150 flanges
- Gear operator (worm gearbox) actuator fitted as standard in diagram
- Pneumatic actuator with manual override handwheel shown in product photo
- 15-part numbered assembly visible in sectional diagram
- Bottom shaft plug/drain point visible on body
- Dimension references: L (face-to-face), D1 (bolt-circle diameter), n-d1 (number and diameter of bolt holes)

OPTIONS & NOTES

- Products hold up to 10 international authoritative certification certificates
- Dimensions table referenced in HTML but no data present

BUTTERFLY VALVE

Butterfly Valve (Wafer Type)

REF **EFC-432** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | NPS 2" to NPS 48" |
| Pressure | Class 150 to Class 300 |
| End connection | wafer (ASME B16.5 / ASME B16.47) / wafer (ASME B16.5 / ASME B16.47) |
| Face-to-face | ASME B16.10 |

ACTUATION

- Worm Gear

STANDARDS

| | |
|--------|----------------|
| Design | API 600 |
| Test | API 598 |

MATERIALS

| | | | |
|-------------------|---|--------------|---|
| Body | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M | Sealing Ring | SS304+GRAPHITE, SS316+GRAPHITE |
| Compression Plate | ASTM A182 F6, ASTM SS304, ASTM SS316 | Disc | ASTM A216 WCB, ASTM A351 CF8, ASTM A351 CF8M |
| Stem | ASTM A182 F6, ASTM A182 F304, ASTM A182 F316 | Packing | GRAPHITE |
| Flange Gland | ASTM A216 WCB, ASTM A351 CF8 | Bolt | ASTM A193 B7, ASTM A320 B8 |
| Nut | ASTM A194 2H, ASTM A194 8 | | |

FEATURES

- Wafer-type body design for installation between flanges
- Available in carbon steel (WCB) and stainless steel (CF8, CF8M) body materials
- Graphite packing for stem sealing
- Stainless steel + graphite sealing ring
- Worm gear actuator as standard

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.



BUTTERFLY VALVE

Butterfly Valve (Wafer Type)

SECTION Dimensions per size REF EFC-432

| SIZE | L | 150LB D1 | 150LB D2 | H1 | H2N_BOLT_SIZE | 300LB DO | 300LB D1 | 300LB D2 | 300LB DO |
|------------|-----|----------|----------|------|---------------|----------|----------|----------|----------|
| NPS 2" | 43 | 120.5 | 92 | 285 | 100 | 4 | 145 | — | — |
| NPS 2-1/2" | 46 | 139.5 | 105 | 295 | 110 | 4 | 145 | — | — |
| NPS 3" | 48 | 152.5 | 127 | 500 | 190 | 8 | 145 | 168.5 | 127 |
| NPS 4" | 54 | 190.5 | 157 | 565 | 235 | 8 | 145 | 200 | 157 |
| NPS 5" | 54 | 216 | 186 | 435 | 165 | 8 | 290 | — | — |
| NPS 6" | 59 | 241.5 | 216 | 665 | 280 | 12 | 290 | 270 | 216 |
| NPS 8" | 73 | 298.5 | 270 | 700 | 320 | 12 | 290 | 330 | 270 |
| NPS 10" | 83 | 362 | 324 | 740 | 335 | 16 | 290 | 387.5 | 324 |
| NPS 12" | 92 | 432 | 381 | 790 | 390 | 16 | 320 | 451 | 381 |
| NPS 14" | 117 | 476.5 | 413 | 920 | 415 | 20 | 320 | 514.5 | 413 |
| NPS 16" | 133 | 540 | 470 | 940 | 485 | 20 | 380 | 571.5 | 470 |
| NPS 18" | 114 | 578 | 533 | 750 | 360 | 16 | 380 | — | — |
| NPS 20" | 127 | 635 | 584 | 865 | 385 | 20 | 380 | — | — |
| NPS 24" | 154 | 749.5 | 692 | 930 | 450 | 20 | 380 | — | — |
| NPS 26" | 165 | 806.5 | 749 | 955 | 435 | 24 | 380 | — | — |
| NPS 28" | 165 | 863.5 | 800 | 985 | 465 | 28 | 380 | — | — |
| NPS 30" | 165 | 914.5 | 857 | 1005 | 485 | 28 | 380 | — | — |
| NPS 32" | 190 | 978 | 914 | 1045 | 515 | 28 | 380 | — | — |
| NPS 36" | 203 | 1086 | 1022 | 1165 | 570 | 32 | 480 | — | — |
| NPS 40" | 216 | 1200 | 1124 | 1260 | 645 | 36 | 480 | — | — |
| NPS 48" | 254 | 1422.5 | 1359 | 1355 | 750 | 44 | 480 | — | — |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Wafer Butterfly Valve

REF **EFC-459** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--------------------------|
| Size | NPS 3" to NPS 12" |
| Pressure | 200 PSI |
| End connection | wafer |

ACTUATION

- Manual lever — ten-position throttling
- Pneumatic actuator — ISO 5211
- Electric actuator — ISO 5211



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

EFC-459 · Specifications confirmed at quote

sales@euroflowcontrol.com · euroflowcontrol.com

MATERIALS

| | | | |
|--------|----------------------------------|---------------|--|
| Body | Ductile Iron | Disc | Ductile Iron (Nickel Plated), Ductile Iron (Nylon Coated), Aluminium Bronze, SS316, Hastelloy C |
| Seat | EPDM, NBR, CSM, PTFE, FKM | Stem | 410 SS |
| O ring | NBR, FKM | Retainer ring | Steel |

PARTS LIST

| Ref | Component | Material | Qty |
|-----|---------------|---|-----|
| 1 | Body | Ductile Iron | 1 |
| 2 | Disc | Ductile Iron (Nickel Plated), Ductile Iron (Nylon Coated), Aluminium Bronze, SS316, Hastelloy C | 1 |
| 3 | Seat | NBR, EPDM, CSM, PTFE, FKM | 1 |
| 4 | Upper Stem | 410 Stainless Steel | 1 |
| 5 | Lower Stem | 410 Stainless Steel | 1 |
| 6 | O-Ring | NBR, FKM | 2 |
| 7 | Retainer Ring | Steel | 2 |

FEATURES

- Ten-position lever handle for precise throttling
- One-piece phenolic-backed controlled-torque elastomer seat for tight shut-off
- Split-stem design self-centres the disc around the seat
- External grease fitting for long-term effortless operation
- Gear, pneumatic or electric actuation available
- ATEX (Ex) version available; certification to be confirmed for this build

ACTUATION TORQUE

| Size | 200 PSI (13.8 bar) | | 50 PSI (3.4 bar) | |
|-----------------|--------------------|-------|------------------|-------|
| | N·m | in·lb | N·m | in·lb |
| NPS 3" / DN80 | 34 | 300 | 22 | 195 |
| NPS 4" / DN100 | 51 | 450 | 31 | 270 |
| NPS 6" / DN150 | 102 | 900 | 62 | 550 |
| NPS 8" / DN200 | 169 | 1500 | 113 | 1000 |
| NPS 10" / DN250 | 301 | 2660 | 203 | 1800 |
| NPS 12" / DN300 | 508 | 4500 | 395 | 3500 |

Wet opening torque, indicative. Size the actuator with margin and confirm at quotation. Source values in in·lb shown for reference.

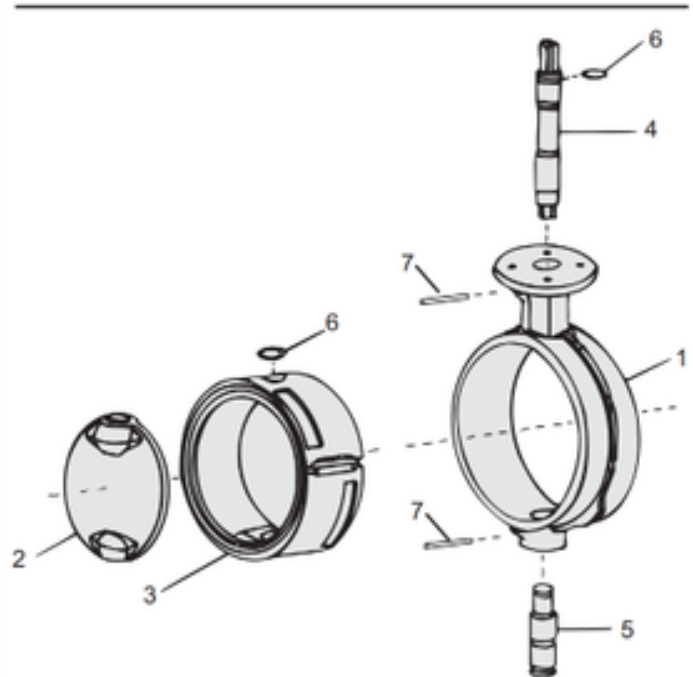
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Wafer Butterfly Valve

SECTION Technical drawing 1 of 2 REF EFC-459

| REF. NO. | COMPONENT DESCRIPTION | MATERIALS AVAILABLE | NO. REQ. |
|----------|-----------------------|---|----------|
| 1 | Body | Ductile Iron | 1 |
| 2 | Disc | Aluminum Bronze Ductile Iron, Nylon Coated, Stainless Steel, Hastalloy C | 1 |
| 3 | Seat | Buna N, EPDM, Hypalon, Teflon, Viton | 1 |
| 4 | Upper Stem | 410 Stainless Steel | 1 |
| 5 | Lower Stem | 410 Stainless Steel | 1 |
| 6 | O-Ring | Buna N, Viton | 2 |
| 7 | Retainer Ring | Steel | 2 |

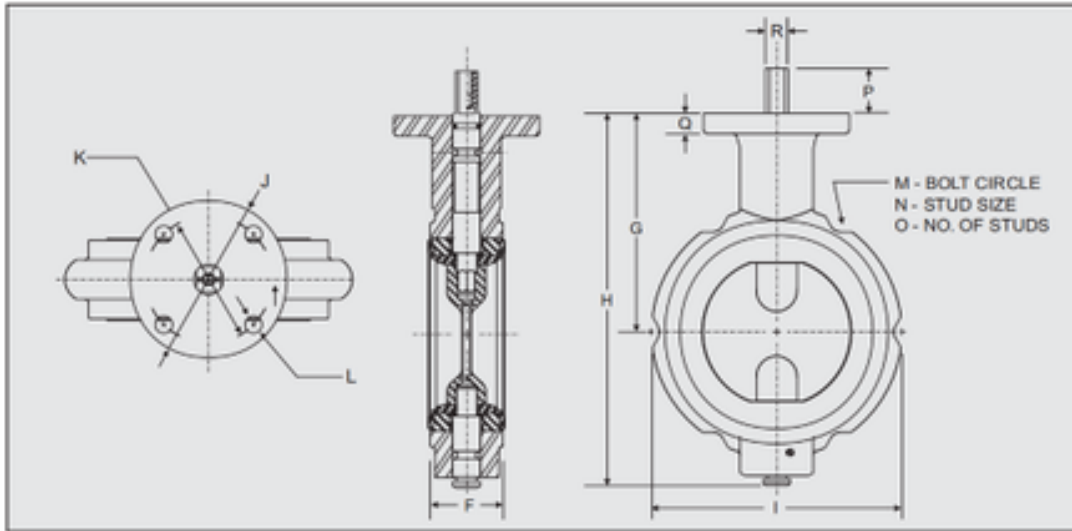


Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Wafer Butterfly Valve

SECTION Technical drawing 2 of 2 REF EFC-459



DIMENSIONS (Dimensions in Inches)

| VALVE SIZE | F | G | H | I | J | K | L | M | N | O | P | Q | R |
|------------|------|-------|-------|-------|------|------|-------|-------|-----|-------|------|------|------|
| 3" | 1.86 | 4.88 | 8.19 | 5.38 | 4.00 | 3.25 | 0.408 | 4.91 | 3/8 | 6.00 | 1.00 | 0.44 | 0.51 |
| 4" | 2.11 | 6.00 | 9.88 | 6.88 | 4.00 | 3.25 | 0.408 | 7.03 | 1/2 | 6.00 | 1.00 | 0.44 | 0.63 |
| 5" | 2.14 | 6.00 | 11.10 | 8.10 | 4.00 | 3.25 | 0.408 | 8.44 | 1/2 | 8.00 | 1.00 | 0.55 | 0.62 |
| 6" | 2.20 | 6.50 | 11.75 | 8.75 | 4.00 | 3.25 | 0.408 | 9.16 | 1/2 | 8.00 | 1.25 | 0.44 | 0.75 |
| 8" | 2.40 | 8.20 | 14.50 | 11.00 | 6.00 | 5.00 | 0.533 | 11.72 | 5/8 | 8.00 | 1.70 | 0.65 | 0.87 |
| 10" | 2.65 | 9.97 | 18.00 | 13.38 | 6.00 | 5.00 | 0.533 | 13.72 | 5/8 | 8.00 | 1.80 | 0.56 | 1.14 |
| 12" | 3.24 | 10.91 | 20.41 | 16.12 | 6.00 | 5.00 | 0.533 | 16.62 | 1/2 | 12.00 | 1.38 | 0.56 | 1.26 |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

Wafer Butterfly Valve

Dimensions per size · EFC-459

| Dimension | NPS 3" / DN80 | NPS 4" / DN100 | NPS 5" / DN125 | NPS 6" / DN150 | NPS 8" / DN200 | NPS 10" / DN250 | NPS 12" / DN300 |
|------------------------------------|---------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| Face-to-face (inch) | 1.86 | 2.11 | 2.14 | 2.2 | 2.4 | 2.65 | 3.24 |
| Centreline to mounting face (inch) | 4.88 | 6 | 6 | 6.5 | 8.2 | 9.97 | 10.91 |
| Overall height (inch) | 8.19 | 9.88 | 11.1 | 11.75 | 14.5 | 18 | 20.41 |
| Body diameter/width (inch) | 5.38 | 6.88 | 8.1 | 8.75 | 11 | 13.38 | 16.12 |
| Top mounting PCD (inch) | 4 | 4 | 4 | 4 | 6 | 6 | 6 |
| Top mounting bolt centres (inch) | 3.25 | 3.25 | 3.25 | 3.25 | 5 | 5 | 5 |
| Mounting hole diameter (inch) | 0.408 | 0.408 | 0.408 | 0.408 | 0.533 | 0.533 | 0.533 |
| Flange bolt circle (inch) | 4.91 | 7.03 | 8.44 | 9.16 | 11.72 | 13.72 | 16.62 |
| Stud size (inch) | 3/8 | 1/2 | 1/2 | 1/2 | 5/8 | 5/8 | 1/2 |
| Number of studs | 6 | 6 | 8 | 8 | 8 | 8 | 12 |
| Mounting flange thickness (inch) | 1 | 1 | 1 | 1.25 | 1.7 | 1.8 | 1.38 |
| Stem projection (inch) | 0.44 | 0.44 | 0.55 | 0.44 | 0.65 | 0.56 | 0.56 |
| Stem diameter (inch) | 0.51 | 0.63 | 0.62 | 0.75 | 0.87 | 1.14 | 1.26 |

Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

Wafer Butterfly Valve

Material selection · EFC-459

DISC MATERIAL SELECTION

| Medium | Ductile Iron (Nickel Plated) | Ductile Iron (Nylon Coated) | Aluminium Bronze | SS316 | Hastelloy C |
|----------------------|------------------------------|-----------------------------|------------------|-------|-------------|
| Acetic Acid | N | G | N | E | E |
| Brine (Liquid) | N | E | G | E | N |
| Carbon Dioxide (Wet) | N | E | N | E | N |
| Diesel Fuel | E | E | E | E | E |
| Cement (Dry) | N | N | E | N | N |
| Cement (Slurry) | N | N | E | N | N |
| Drilling Mud | N | N | E | N | N |
| Gel Water | N | N | E | N | N |
| Hydrofluoric Acid | N | G | N | N | E |
| Hydrochloric Acid | N | G | N | N | E |
| Sea Mud | N | N | E | N | N |
| Xylene | G | E | E | E | E |

E = Excellent · G = Good · N = Not recommended

SEAT MATERIAL SELECTION

| Medium | EPDM | NBR | FKM | PTFE |
|----------------------|------|-----|-----|------|
| Acetic Acid | N | N | N | E |
| Brine (Liquid) | E | E | E | E |
| Carbon Dioxide (Wet) | E | G | E | E |
| Diesel Fuel | N | E | E | E |
| Cement (Dry) | G | G | G | N |
| Cement (Slurry) | G | G | G | N |
| Drilling Mud | N | G | G | N |
| Gel Water | N | N | E | N |
| Hydrofluoric Acid | G | N | G | E |
| Hydrochloric Acid | E | N | G | E |
| Sea Mud | N | N | G | N |
| Xylene | E | E | E | E |

E = Excellent · G = Good · N = Not recommended

Indicative material suitability. Confirm final selection for the service medium at quotation.

A200 Pressure Reducing Valve

REF **EFC-345** ISSUED 08 Jul 2026

BUILT ON THE A900 MAIN VALVE BODY

All A900 configurations share the same hydraulically operated body. An existing body can be repiloted in the field for a different duty by swapping the pilot assembly, without body replacement.

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN50 to DN800 |
| Pressure | PN10 to PN25 |
| End connection | flanged (EN 1092-2) / flanged (EN 1092-2) / flanged (EN 1092-2) |
| Face-to-face | BS EN 558-1 |

STANDARDS

| | |
|--------|--------------------------------|
| Design | EN 1074-5 |
| Test | ISO 5208, BS EN 12266-1 |

APPLICATIONS

- Pressure zone management
- Water distribution networks
- Leakage reduction
- Building supply



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **EN-GJS-500-7**

FEATURES

- The A200 is a hydraulically operated pressure reducing valve that maintains a constant, pre-set downstream pressure regardless of fluctuations in upstream pressure or demand
- A spring-loaded reducing pilot senses downstream pressure and modulates the main valve position accordingly
- Used extensively in water distribution networks to protect downstream pipework and fittings, reduce leakage rates and manage pressure zones

PILOT ASSEMBLY & ACCESSORIES

PILOT ASSEMBLY

P200 Reducing Pilot Sensing pilot — maintains downstream pressure at the pre-set value

COMPATIBLE ACCESSORIES

Needle Valve Adjusts response speed and damps oscillation in the pilot circuit

OTHER CONFIGURATIONS ON THIS BODY

- A100 Modulating Float Control Valve
- A300 Slow Control Check Valve
- A500 Pressure Relief / Sustaining Valve
- A76D Pump Control Valve - Double Chamber
- A10A Altitude Control Valve
- A14A Altitude with Rate of Flow Control Valve
- A205 Pressure Sustaining and Reducing Valve
- A20B Pressure Reducing Valve - High Flow
- A506 Pressure Sustaining Valve with Solenoid Control
- A7MD Pump Control Valve - Passive Protection
- A900 Automatic Control Valve - Threaded
- A203 Pressure Reducing with Check Valve
- A400 Flow Control Valve
- A600 Solenoid Control Valve
- A900 Automatic Control Valve (Main Valve)
- A10B Bi-Level Float Control Valve
- A204 Pressure Reducing Valve with Flow Limiter
- A206 Pressure Reducing Solenoid Control Valve
- A2A5 Surge Anticipating Control Valve
- A6DV Dual Solenoid Control Valve
- A800 Pressure Differential Valve
- R900 Main Valve - Reduced Bore

PRESSURE-TEMPERATURE RATING

| CLASS | TEMPERATURE | MAX PRESSURE |
|-------|-------------|--------------|
| PN10 | -10°C | 10 bar |
| PN10 | 80°C | 10 bar |
| PN16 | -10°C | 16 bar |
| PN16 | 80°C | 16 bar |
| PN25 | -10°C | 25 bar |
| PN25 | 80°C | 25 bar |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CONTROL VALVE

A200 Pressure Reducing Valve

SECTION Technical drawing 1 of 6 REF EFC-345

Function:

The function of this valve is to protect the downstream piping & fittings by reducing a high fluctuating upstream pressure to a lower constant downstream by means of an adjustable PRV pilot.

Features:

- Top and seat ring guided stem and diaphragm assembly for long life and reliability.
- All iron components are fusion epoxy bonded for corrosion resistance.
- Easy maintenance without removal from the main line.
- Nylon reinforced diaphragm for long term service.
- Drip tight shut off.
- Globe design for superior control characteristics.
- Ductile iron bodies for higher strength and durability.
- Corrosion resistant stainless steel seat and disc retainer ring.
- Various pilots and accessories available for configuration into many different applications.
- Special V-Port and double chamber are options, please consult factory.
- Meet standards BS EN 1074-5, ISO 5208, BS EN 12266-1, BS EN 558-1,



General Application:

For pressure, flow and level control in water applications.

Technical Data:

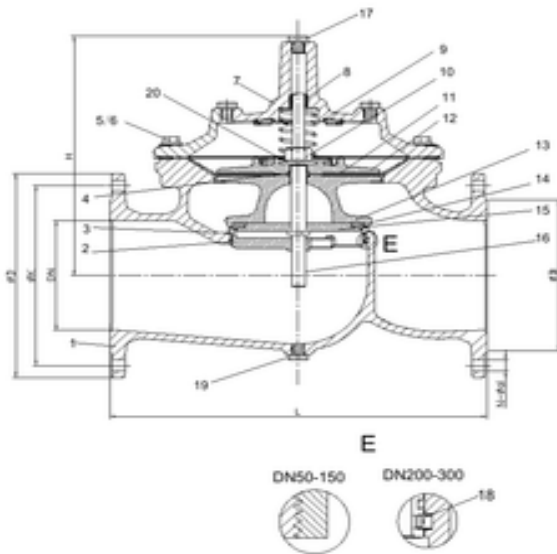
Size Range: DN50~DN800mm
 Pressure Ratings: 1.0Mpa; 1.6Mpa; 2.5Mpa
 Working Temperature: -10°C- 80°C
 Suitable Media: Water
 End connection: PN 10/ PN 16/ PN 25
 Consult Factory for other applications

CONTROL VALVE

A200 Pressure Reducing Valve

SECTION Technical drawing 2 of 6 REF EFC-345

A900-Main Valve DN50-DN350



Parts List

| No. | Description | Material | Standard |
|-----|---------------|-------------------------|--------------------|
| 1 | Body | Ductile Iron | GJS 500-7 |
| 2 | Seat | Stainless Steel | AISI 304/316 |
| 3 | O-ring | Rubber | NBR |
| 4 | O-ring | Rubber | NBR |
| 5 | Bolt | Stainless Steel | A2/A4 |
| 6 | Washer | Stainless Steel | A2/A4 |
| 7 | Bonnet | Ductile Iron | GJS 500-7 |
| 8 | Bush | Bronze | C61900 |
| 9 | Spring | Stainless Steel | AISI 304/316 |
| 10 | Caulking Nut | Stainless Steel | A4 |
| 11 | Diaphragm | Nylon Reinforced Rubber | EPDM +Nylon Fabric |
| 12 | Fixing holder | Ductile Iron | GJS 500-7 |
| 13 | Disc Holder | Ductile Iron | GJS 500-7 |
| 14 | Seal | Rubber | EPDM |
| 15 | Seat Retainer | Stainless Steel | AISI 304/316 |
| 16 | Stem | Stainless Steel | AISI 304/316 |
| 17 | Plug | Stainless Steel | AISI 304/316 |
| 18 | Screw | Stainless Steel | A2/A4 |
| 19 | Plug | Stainless Steel | A2/A4 |
| 20 | Washer | Stainless Steel | A2/A4 |

Dimension:

| DN | Model Code | L | ØD | | | ØK | | | H | N-Ød | | | Unit: mm ØB | | |
|------|------------|-----|------|------|------|------|------|------|-----|--------|--------|--------|----------------|------|------|
| | | | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 | | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 |
| 50 | A900-0050 | 230 | 165 | 165 | 165 | 125 | 125 | 125 | 177 | 4-Ø19 | 4-Ø19 | 4-Ø19 | Ø99 | Ø99 | Ø99 |
| 65 | A900-0065 | 290 | 185 | 185 | 185 | 145 | 145 | 145 | 202 | 4-Ø19 | 4-Ø19 | 8-Ø19 | Ø118 | Ø118 | Ø118 |
| 80 | A900-0080 | 310 | 200 | 200 | 200 | 160 | 160 | 160 | 219 | 8-Ø19 | 8-Ø19 | 8-Ø19 | Ø132 | Ø132 | Ø132 |
| 100 | A900-0100 | 350 | 220 | 220 | 235 | 180 | 180 | 190 | 243 | 8-Ø19 | 8-Ø19 | 8-Ø23 | Ø156 | Ø156 | Ø156 |
| *125 | A900-0125 | 400 | 250 | 250 | 270 | 210 | 210 | 220 | 243 | 8-Ø19 | 8-Ø19 | 8-Ø28 | Ø156 | Ø156 | Ø156 |
| 150 | A900-0150 | 480 | 285 | 285 | 300 | 240 | 240 | 250 | 333 | 8-Ø23 | 8-Ø23 | 8-Ø28 | Ø211 | Ø211 | Ø211 |
| 200 | A900-0200 | 600 | 340 | 340 | 360 | 295 | 295 | 310 | 428 | 8-Ø23 | 12-Ø23 | 12-Ø28 | Ø266 | Ø266 | Ø274 |
| 250 | A900-0250 | 730 | 405 | 405 | 425 | 350 | 355 | 370 | 478 | 12-Ø23 | 12-Ø28 | 12-Ø31 | Ø319 | Ø319 | Ø330 |
| 300 | A900-0300 | 850 | 460 | 460 | 485 | 400 | 410 | 430 | 538 | 12-Ø23 | 12-Ø28 | 16-Ø31 | Ø370 | Ø370 | Ø389 |
| *350 | A900-0350 | 980 | 520 | 520 | 555 | 460 | 470 | 490 | 550 | 16-Ø23 | 16-Ø28 | 16-Ø34 | Ø429 | Ø429 | Ø448 |

NOTE: 1. *DN125/350 use same internal as DN100/300
2. AISI 304 factory standard material. consult factory for AISI 316 material.

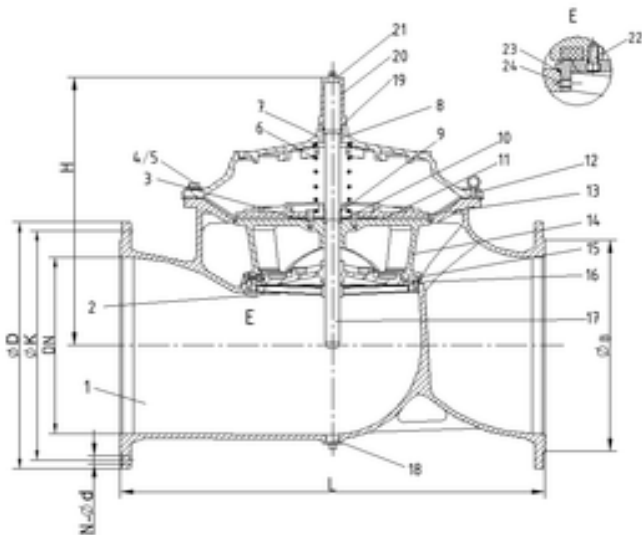
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CONTROL VALVE

A200 Pressure Reducing Valve

SECTION Technical drawing 3 of 6 REF EFC-345

A900-Main Valve DN400-DN800



Parts List

| No. | Description | Material | Standard |
|-----|---------------|-------------------------|--------------------|
| 1 | Body | Ductile Iron | GJS 500-7 |
| 2 | Seat | Stainless Steel | AISI 304/316 |
| 3 | Screw | Stainless Steel | A2/A4 |
| 4 | Screw | Stainless Steel | A2/A4 |
| 5 | Screw | Stainless Steel | A2/A4 |
| 6 | Spring | Stainless Steel | AISI 304/316 |
| 7 | Bonnet | Ductile Iron | GJS 500-7 |
| 8 | Bush | Bronze | C61900 |
| 9 | O-ring | Rubber | NBR |
| 10 | Fix Washer | Bronze | C61900 |
| 11 | Diaphragm | Nylon Reinforced Rubber | EPDM +Nylon Fabric |
| 12 | Eye Bolts | Carbon Steel | 1040 |
| 13 | Fixing Holder | Ductile Iron | GJS 500-7 |
| 14 | Disc Holder | Ductile Iron | GJS 500-7 |
| 15 | Seal | Rubber | EPDM |
| 16 | Seal Retainer | Ductile Iron | GJS 500-7 |
| 17 | Stem | Stainless Steel | AISI 304/316 |
| 18 | Plug | Stainless Steel | AISI 304/316 |
| 19 | O-ring | Rubber | NBR |
| 20 | Cap | Ductile Iron | GJS 500-7 |
| 21 | Plug | Stainless Steel | AISI 304/316 |
| 22 | Screw | Stainless Steel | A2/A4 |
| 23 | O-ring | Rubber | NBR |
| 24 | Screw | Stainless Steel | A2/A4 |

Dimension:

Unit: mm

| DN | Model Code | L | H | ØD | | | ØK | | | N-Ød | | | ØB | | |
|------|------------|------|------|------|------|------|------|------|------|--------|--------|--------|------|------|------|
| | | | | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 |
| 400 | A900-0400 | 1100 | 710 | 580 | 580 | 620 | 515 | 525 | 550 | 16-Ø28 | 16-Ø31 | 16-Ø37 | 480 | 480 | 503 |
| *450 | A900-0450 | 1200 | 720 | 640 | 640 | 670 | 565 | 585 | 600 | 20-Ø28 | 20-Ø31 | 20-Ø37 | 530 | 548 | 548 |
| 500 | A900-0500 | 1250 | 822 | 715 | 715 | 730 | 620 | 650 | 660 | 20-Ø28 | 20-Ø34 | 20-Ø37 | 582 | 609 | 609 |
| 600 | A900-0600 | 1450 | 885 | 840 | 840 | 845 | 725 | 770 | 770 | 20-Ø31 | 20-Ø37 | 20-Ø40 | 682 | 720 | 720 |
| *700 | A900-0700 | 1650 | 910 | 910 | 910 | 960 | 840 | 840 | 875 | 24-Ø31 | 24-Ø37 | 24-Ø43 | 682 | 720 | 720 |
| 800 | A900-0800 | 1850 | 1260 | 1025 | 1025 | 1085 | 950 | 950 | 990 | 24-Ø34 | 24-Ø40 | 24-Ø49 | 901 | 901 | 928 |

Note: 1. *DN450/700 use same internal as DN400/600.

2. AISI 304 factory standard material. consult factory for AISI 316 material.

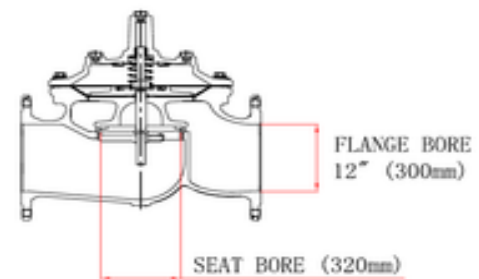
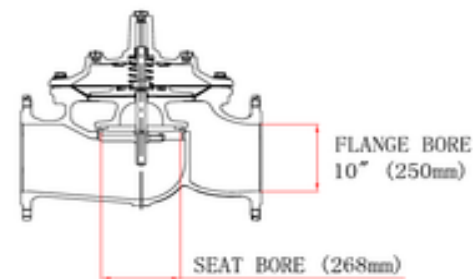
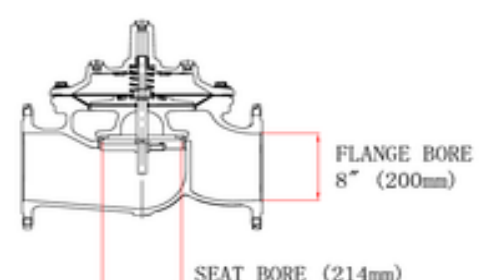
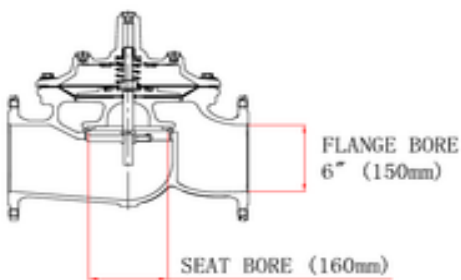
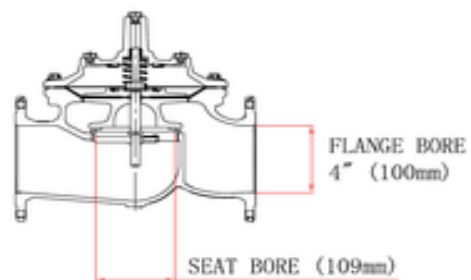
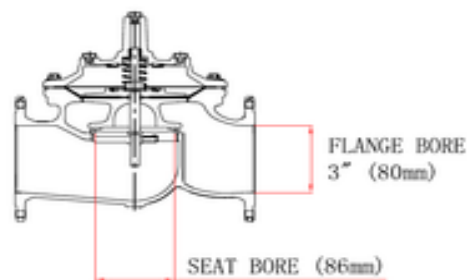
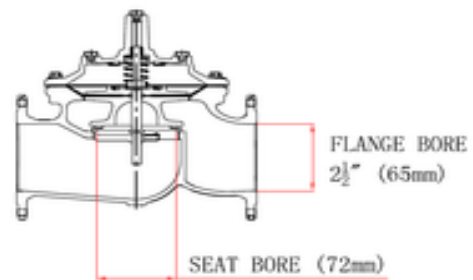
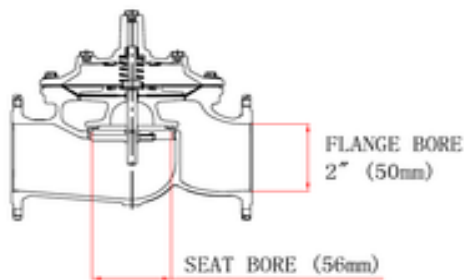
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CONTROL VALVE

A200 Pressure Reducing Valve

SECTION Technical drawing 4 of 6 REF EFC-345

A900-Main Valve Bore Size DN50-DN300



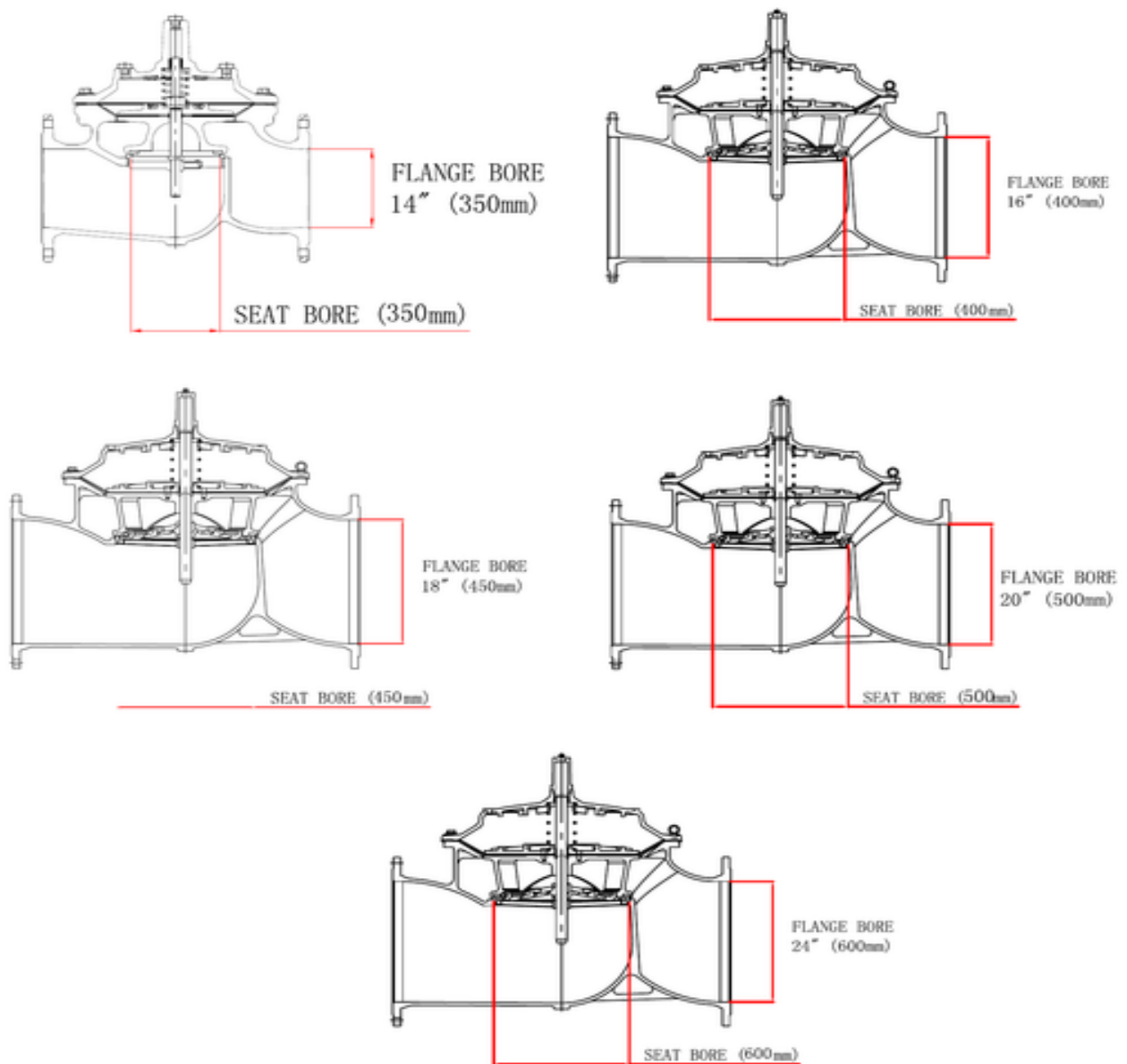
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CONTROL VALVE

A200 Pressure Reducing Valve

SECTION Technical drawing 5 of 6 REF EFC-345

A900-Main Valve Bore Size DN400-DN600



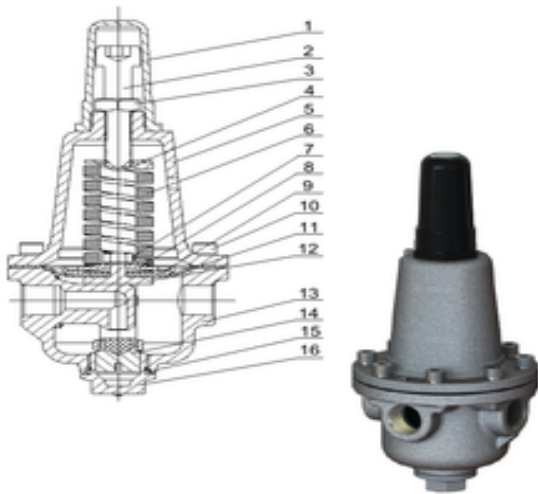
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CONTROL VALVE

A200 Pressure Reducing Valve

SECTION Technical drawing 6 of 6 REF EFC-345

P200-Reducing Pilot



Part list & Material

| No. | Description | Material | Standard |
|-----|-----------------|-------------------------|--------------------|
| 1 | Cap | Plastic | ABS |
| 2 | Adjusting Screw | Stainless Steel | AISI 304 |
| 3 | Jam Nut | Stainless Steel | A2 |
| 4 | Spring table | Stainless Steel | AISI 304 |
| 5 | Bonnet | Stainless Steel | AISI 304 |
| 6 | Spring | Spring Steel | SiCrV |
| 7 | Nut | Stainless Steel | A2 |
| 8 | Spring table | Spring Steel | Mn-steel+Ni Plated |
| 9 | Fixing Holder | Stainless Steel | AISI 304 |
| 10 | Screw | Stainless Steel | A2 |
| 11 | Diaphragm | Nylon Reinforced Rubber | EPDM+Nylon |
| 12 | Yoke | Stainless Steel | AISI 304 |
| 13 | Body | Stainless Steel | AISI 304 |
| 14 | Disc | Stainless Steel+Rubber | AISI 304+EPDM |
| 15 | O-Ring | Rubber | NBR |
| 16 | Plug | Stainless Steel | AISI 304 |

Ordering Code

Model:
A200: Pressure Reducing Valve

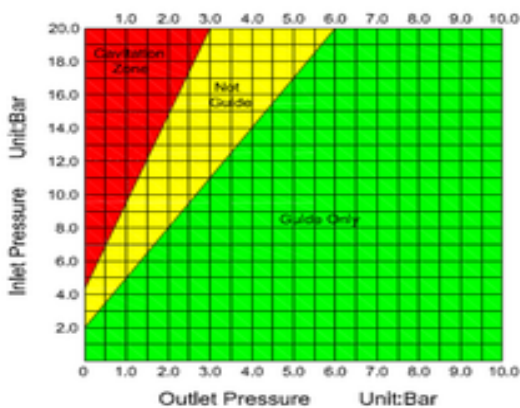
AXXX-0200-16-YYY

YYY: Special Code
Please Consult Factory

Pressure Rating:
10: PN10
16: PN16
25: PN25
A1: ANSI 125 F/F
A5: ANSI 150 R/F

Size:
0080: 80 mm
0200: 200 mm

Cavitation



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CONTROL VALVE

A200 Pressure Reducing Valve

SECTION Dimensions per size REF EFC-345

| SIZE | MOD-EL_CODE | L | H | OD_PN10 | OD_PN16 | OD_PN25 | OK_PN10 | OK_PN16 | OK_PN25 | OB_PN10 | OB_PN16 | OB_PN25 |
|-------|-------------|------|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| DN50 | A900-0050 | 230 | 177 | 165 | 165 | 165 | 125 | 125 | 125 | 99 | 99 | 99 |
| DN65 | A900-0065 | 290 | 202 | 185 | 185 | 185 | 145 | 145 | 145 | 118 | 118 | 118 |
| DN80 | A900-0080 | 310 | 219 | 200 | 200 | 200 | 160 | 160 | 160 | 132 | 132 | 132 |
| DN100 | — | 350 | 243 | 220 | 220 | 235 | 180 | 180 | 190 | 156 | 156 | 156 |
| DN125 | — | 400 | 243 | 250 | 250 | 270 | 210 | 210 | 220 | 156 | 156 | 156 |
| DN150 | — | 480 | 333 | 285 | 285 | 300 | 240 | 240 | 250 | 211 | 211 | 211 |
| DN200 | — | 600 | 428 | 340 | 340 | 360 | 295 | 295 | 310 | 266 | 266 | 274 |
| DN250 | — | 730 | 478 | 405 | 405 | 425 | 350 | 355 | 370 | 319 | 319 | 330 |
| DN300 | — | 850 | 538 | 460 | 460 | 485 | 400 | 410 | 430 | 370 | 370 | 389 |
| DN350 | — | 980 | 550 | 520 | 520 | 555 | 460 | 470 | 490 | 429 | 429 | 448 |
| DN400 | — | 1100 | 710 | 580 | 580 | 620 | 515 | 525 | 550 | 480 | 480 | 503 |
| DN450 | — | 1200 | 720 | 640 | 640 | 670 | 565 | 585 | 600 | 530 | 548 | 548 |
| DN500 | — | 1250 | 822 | 715 | 715 | 730 | 620 | 650 | 660 | 582 | 609 | 609 |
| DN600 | — | 1450 | 885 | 840 | 840 | 845 | 725 | 770 | 770 | 682 | 720 | 720 |
| DN700 | — | 1650 | 910 | 910 | 910 | 960 | 840 | 840 | 875 | 682 | 720 | 720 |
| DN800 | — | 1850 | 1260 | 1025 | 1025 | 1085 | 950 | 950 | 990 | 901 | 901 | 928 |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

EFC-345 · Specifications confirmed at quote

sales@euroflowcontrol.com · euroflowcontrol.com

A400 Flow Control Valve

REF **EFC-348** ISSUED 08 Jul 2026

BUILT ON THE A900 MAIN VALVE BODY

All A900 configurations share the same hydraulically operated body. An existing body can be repiloted in the field for a different duty by swapping the pilot assembly, without body replacement.

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN50 to DN800 |
| Pressure | PN10 to PN25 |
| End connection | flanged (EN 1092-2) / flanged (EN 1092-2) / flanged (EN 1092-2) / flanged (ANSI) / flanged (ANSI) |
| Face-to-face | BS EN 558-1 |
| Media | Water |

STANDARDS

| | |
|--------|--------------------------------|
| Design | EN 1074-5 |
| Test | ISO 5208, BS EN 12266-1 |

APPLICATIONS

- Flow limiting
- Bulk supply metering bypass
- Distribution network control



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|---------------|----------------------------|------------|----------------------|
| Body | EN-GJS-500-7 | Seat | AISI 304, 316 |
| O ring | NBR | Bolt | A2, A4 |
| Washer | A2, A4 | Bonnet | EN-GJS-500-7 |
| Bush | C61900 | Spring | AISI 304, 316 |
| Diaphragm | EPDM + Nylon Fabric | Seal | EPDM |
| Seat retainer | AISI 304, 316 | Stem | AISI 304, 316 |
| Plug | AISI 304, 316 | Pilot body | AISI 304 |

FEATURES

- The A400 maintains a pre-set maximum flow rate regardless of upstream pressure variation
- A flow control pilot measures differential pressure across an integral orifice and modulates the main valve to limit flow to the set value
- Used to prevent excess draw from transmission mains, control bulk meter bypass flows and protect distribution networks from demand surges

PILOT ASSEMBLY & ACCESSORIES

PILOT ASSEMBLY

P400 Flow Rate Control Pilot Flow sensing pilot — measures differential pressure across the orifice plate and modulates the main valve to hold the set flow rate

COMPATIBLE ACCESSORIES

Needle Valve Adjusts response speed and damps oscillation in the pilot circuit

Alpine Orifice Plate Creates differential pressure signal for flow measurement

OTHER CONFIGURATIONS ON THIS BODY

- A100 Modulating Float Control Valve
- A203 Pressure Reducing with Check Valve
- A500 Pressure Relief / Sustaining Valve
- A76D Pump Control Valve - Double Chamber
- A10A Altitude Control Valve
- A14A Altitude with Rate of Flow Control Valve
- A205 Pressure Sustaining and Reducing Valve
- A20B Pressure Reducing Valve - High Flow
- A506 Pressure Sustaining Valve with Solenoid Control
- A7MD Pump Control Valve - Passive Protection
- A900 Automatic Control Valve - Threaded
- A200 Pressure Reducing Valve
- A300 Slow Control Check Valve
- A600 Solenoid Control Valve
- A900 Automatic Control Valve (Main Valve)
- A10B Bi-Level Float Control Valve
- A204 Pressure Reducing Valve with Flow Limiter
- A206 Pressure Reducing Solenoid Control Valve
- A2A5 Surge Anticipating Control Valve
- A6DV Dual Solenoid Control Valve
- A800 Pressure Differential Valve
- R900 Main Valve - Reduced Bore

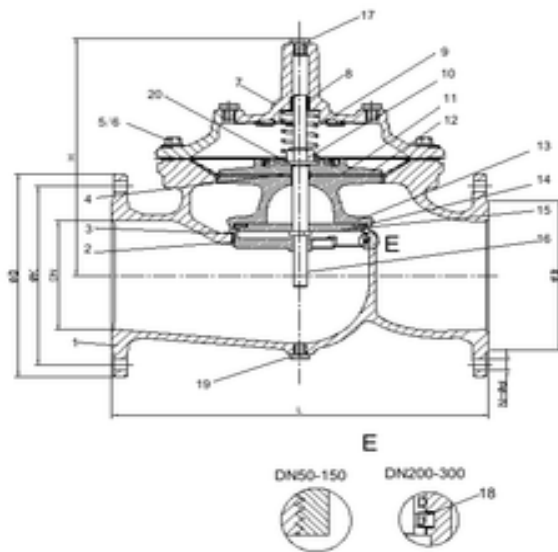
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CONTROL VALVE

A400 Flow Control Valve

SECTION Technical drawing 1 of 4 REF EFC-348

A900-Main Valve DN50-DN350



Parts List

| No. | Description | Material | Standard |
|-----|---------------|-------------------------|--------------------|
| 1 | Body | Ductile Iron | GJS 500-7 |
| 2 | Seat | Stainless Steel | AISI 304/316 |
| 3 | O-ring | Rubber | NBR |
| 4 | O-ring | Rubber | NBR |
| 5 | Bolt | Stainless Steel | A2/A4 |
| 6 | Washer | Stainless Steel | A2/A4 |
| 7 | Bonnet | Ductile Iron | GJS 500-7 |
| 8 | Bush | Bronze | C61900 |
| 9 | Spring | Stainless Steel | AISI 304/316 |
| 10 | Caulking Nut | Stainless Steel | A4 |
| 11 | Diaphragm | Nylon Reinforced Rubber | EPDM +Nylon Fabric |
| 12 | Fixing holder | Ductile Iron | GJS 500-7 |
| 13 | Disc Holder | Ductile Iron | GJS 500-7 |
| 14 | Seal | Rubber | EPDM |
| 15 | Seat Retainer | Stainless Steel | AISI 304/316 |
| 16 | Stem | Stainless Steel | AISI 304/316 |
| 17 | Plug | Stainless Steel | AISI 304/316 |
| 18 | Screw | Stainless Steel | A2/A4 |
| 19 | Plug | Stainless Steel | A2/A4 |
| 20 | Washer | Stainless Steel | A2/A4 |

Dimension:

| DN | Model Code | L | ØD | | | ØK | | | H | N-Ød | | | Unit: mm ØB | | |
|------|------------|-----|------|------|------|------|------|------|-----|--------|--------|--------|----------------|------|------|
| | | | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 | | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 |
| 50 | A900-0050 | 230 | 165 | 165 | 165 | 125 | 125 | 125 | 177 | 4-Ø19 | 4-Ø19 | 4-Ø19 | Ø99 | Ø99 | Ø99 |
| 65 | A900-0065 | 290 | 185 | 185 | 185 | 145 | 145 | 145 | 202 | 4-Ø19 | 4-Ø19 | 8-Ø19 | Ø118 | Ø118 | Ø118 |
| 80 | A900-0080 | 310 | 200 | 200 | 200 | 160 | 160 | 160 | 219 | 8-Ø19 | 8-Ø19 | 8-Ø19 | Ø132 | Ø132 | Ø132 |
| 100 | A900-0100 | 350 | 220 | 220 | 235 | 180 | 180 | 190 | 243 | 8-Ø19 | 8-Ø19 | 8-Ø23 | Ø156 | Ø156 | Ø156 |
| *125 | A900-0125 | 400 | 250 | 250 | 270 | 210 | 210 | 220 | 243 | 8-Ø19 | 8-Ø19 | 8-Ø28 | Ø156 | Ø156 | Ø156 |
| 150 | A900-0150 | 480 | 285 | 285 | 300 | 240 | 240 | 250 | 333 | 8-Ø23 | 8-Ø23 | 8-Ø28 | Ø211 | Ø211 | Ø211 |
| 200 | A900-0200 | 600 | 340 | 340 | 360 | 295 | 295 | 310 | 428 | 8-Ø23 | 12-Ø23 | 12-Ø28 | Ø266 | Ø266 | Ø274 |
| 250 | A900-0250 | 730 | 405 | 405 | 425 | 350 | 355 | 370 | 478 | 12-Ø23 | 12-Ø28 | 12-Ø31 | Ø319 | Ø319 | Ø330 |
| 300 | A900-0300 | 850 | 460 | 460 | 485 | 400 | 410 | 430 | 538 | 12-Ø23 | 12-Ø28 | 16-Ø31 | Ø370 | Ø370 | Ø389 |
| *350 | A900-0350 | 980 | 520 | 520 | 555 | 460 | 470 | 490 | 550 | 16-Ø23 | 16-Ø28 | 16-Ø34 | Ø429 | Ø429 | Ø448 |

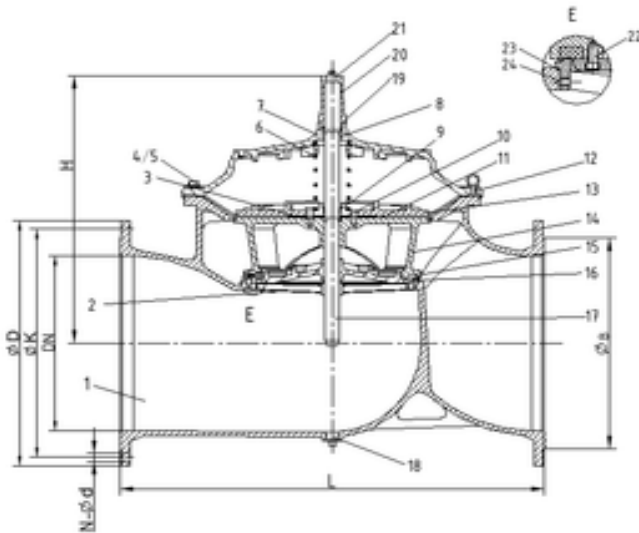
NOTE: 1. *DN125/350 use same internal as DN100/300
2. AISI 304 factory standard material. consult factory for AISI 316 material.

CONTROL VALVE

A400 Flow Control Valve

SECTION Technical drawing 2 of 4 REF EFC-348

A900-Main Valve DN400-DN800



Parts List

| No. | Description | Material | Standard |
|-----|---------------|-------------------------|--------------------|
| 1 | Body | Ductile Iron | GJS 500-7 |
| 2 | Seat | Stainless Steel | AISI 304/316 |
| 3 | Screw | Stainless Steel | A2/A4 |
| 4 | Screw | Stainless Steel | A2/A4 |
| 5 | Screw | Stainless Steel | A2/A4 |
| 6 | Spring | Stainless Steel | AISI 304/316 |
| 7 | Bonnet | Ductile Iron | GJS 500-7 |
| 8 | Bush | Bronze | C61900 |
| 9 | O-ring | Rubber | NBR |
| 10 | Fix Washer | Bronze | C61900 |
| 11 | Diaphragm | Nylon Reinforced Rubber | EPDM +Nylon Fabric |
| 12 | Eye Bolts | Carbon Steel | 1040 |
| 13 | Fixing Holder | Ductile Iron | GJS 500-7 |
| 14 | Disc Holder | Ductile Iron | GJS 500-7 |
| 15 | Seal | Rubber | EPDM |
| 16 | Seal Retainer | Ductile Iron | GJS 500-7 |
| 17 | Stem | Stainless Steel | AISI 304/316 |
| 18 | Plug | Stainless Steel | AISI 304/316 |
| 19 | O-ring | Rubber | NBR |
| 20 | Cap | Ductile Iron | GJS 500-7 |
| 21 | Plug | Stainless Steel | AISI 304/316 |
| 22 | Screw | Stainless Steel | A2/A4 |
| 23 | O-ring | Rubber | NBR |
| 24 | Screw | Stainless Steel | A2/A4 |

Dimension:

Unit: mm

| DN | Model Code | L | H | ØD | | | ØK | | | N-Ød | | | ØB | | |
|------|------------|------|------|------|------|------|------|------|------|--------|--------|--------|------|------|------|
| | | | | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 |
| 400 | A900-0400 | 1100 | 710 | 580 | 580 | 620 | 515 | 525 | 550 | 16-Ø28 | 16-Ø31 | 16-Ø37 | 480 | 480 | 503 |
| *450 | A900-0450 | 1200 | 720 | 640 | 640 | 670 | 565 | 585 | 600 | 20-Ø28 | 20-Ø31 | 20-Ø37 | 530 | 548 | 548 |
| 500 | A900-0500 | 1250 | 822 | 715 | 715 | 730 | 620 | 650 | 660 | 20-Ø28 | 20-Ø34 | 20-Ø37 | 582 | 609 | 609 |
| 600 | A900-0600 | 1450 | 885 | 840 | 840 | 845 | 725 | 770 | 770 | 20-Ø31 | 20-Ø37 | 20-Ø40 | 682 | 720 | 720 |
| *700 | A900-0700 | 1650 | 910 | 910 | 910 | 960 | 840 | 840 | 875 | 24-Ø31 | 24-Ø37 | 24-Ø43 | 682 | 720 | 720 |
| 800 | A900-0800 | 1850 | 1260 | 1025 | 1025 | 1085 | 950 | 950 | 990 | 24-Ø34 | 24-Ø40 | 24-Ø49 | 901 | 901 | 928 |

Note: 1. *DN450/700 use same internal as DN400/600.
2. AISI 304 factory standard material. consult factory for AISI 316 material.

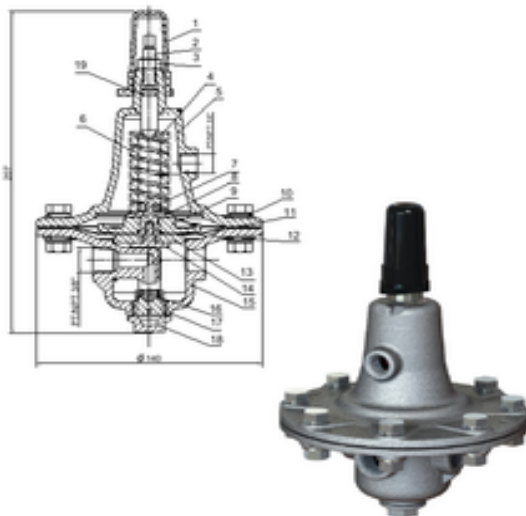
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CONTROL VALVE

A400 Flow Control Valve

SECTION Technical drawing 3 of 4 REF EFC-348

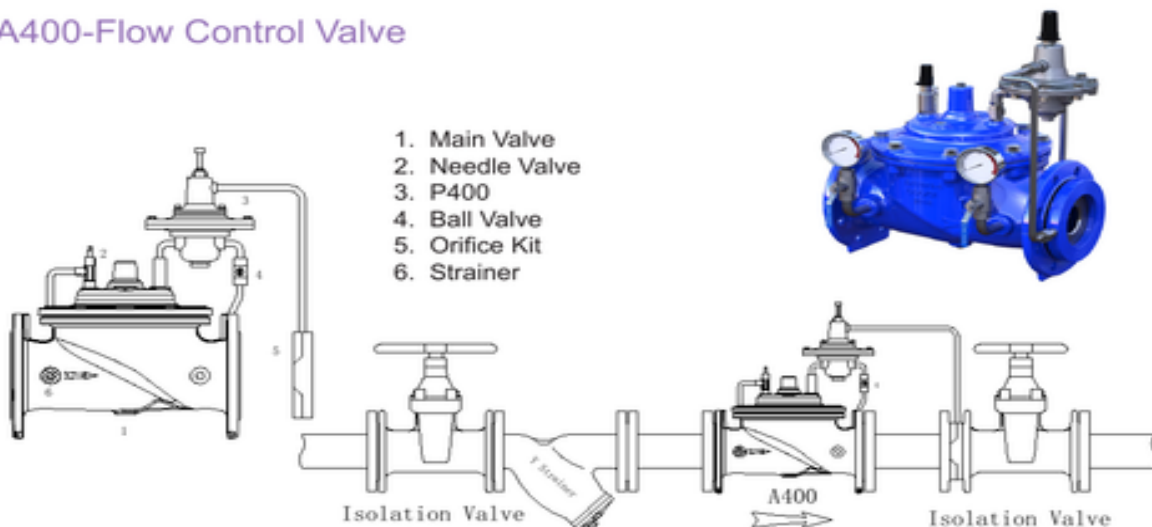
P400 Flow rate control Pilot



Part list & Material

| No. | Description | Material | Standard |
|-----|-----------------|-------------------------|--------------------|
| 1 | Cap | Plastic | ABS |
| 2 | Adjusting Screw | Stainless Steel | AISI 304 |
| 3 | Jam Nut | Stainless Steel | AISI 304 |
| 4 | Spring table | Stainless Steel | AISI 304 |
| 5 | Bonnet | Stainless Steel | AISI 304 |
| 6 | Spring | Spring Steel | SiCrV |
| 7 | Nut | Stainless Steel | A2 |
| 8 | Spring table | Spring Steel | Mn-steel+Ni Plated |
| 9 | Fixing Holder | Stainless Steel | AISI 304 |
| 10 | Screw | Stainless Steel | A2 |
| 11 | Diaphragm | Nylon Reinforced Rubber | EPDM+Nylon |
| 12 | O-Ring | Rubber | NBR |
| 13 | Gasket | Stainless Steel | AISI 304 |
| 14 | Stem | Stainless Steel | AISI 304 |
| 15 | Body | Stainless Steel | AISI 304 |
| 16 | Disc | Stainless Steel+Rubber | AISI 304+EPDM |
| 17 | O-Ring | Rubber | NBR |
| 18 | Plug | Stainless Steel | AISI 304 |
| 19 | O-Ring | Rubber | NBR |

A400-Flow Control Valve



Function:

1. Maintains a constant flow, regardless of fluctuations of system pressure.
2. The rate of flow pilot can be adjustable, and senses the pressure differential across an orifice plate mounted in the valve outlet flange.
3. Whenever the system pressure changes, the flow pilot responds and modulate the main valve to maintain the desired flow.

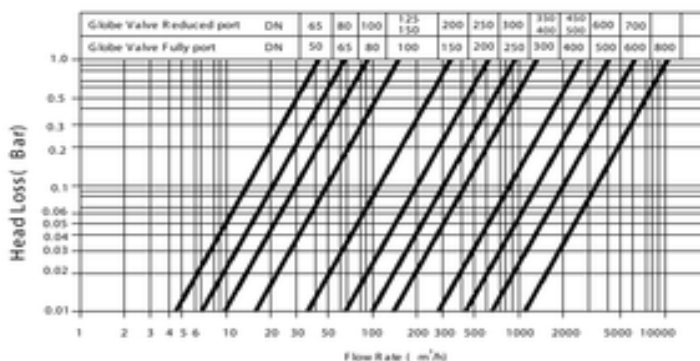
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CONTROL VALVE

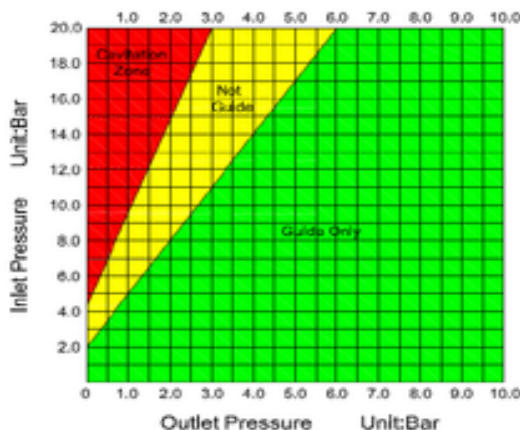
A400 Flow Control Valve

SECTION Technical drawing 4 of 4 REF EFC-348

Head Loss Curve



Cavitation



Ordering Code

AXXX-0200-16-YYY

Model:

- A100: Remote Float Valve
- A200: Pressure Reducing Valve
- A300: Slow Control Check Valve
- A400: Flow Control Valve
- A500: Pressure Relief/Sustaining Valve
- A600: Solenoid Control Valve
- A70D: Pump Control Valve
- A800: Pressure Differential Valve
- A900: Main Valve

YYY: Special Code
Please Consult Factory

Pressure Rating:
10: PN10
16: PN16
25: PN25
A1: ANSI 125 F/F
A5: ANSI 150 R/F

Size:
0080: 80 mm
0200: 200 mm

CONTROL VALVE

A400 Flow Control Valve

SECTION Dimensions per size REF EFC-348

| SIZE | L | HOD_PN10OD_PN16OD_PN25OK_PN10OK_PN16OK_PN25OB_PN10OB_PN16OB_PN25 | | | | | | | | | |
|-------|------|--|------|------|------|-----|-----|-----|-----|-----|-----|
| DN50 | 230 | 177 | 165 | 165 | 165 | 125 | 125 | 125 | 99 | 99 | 99 |
| DN65 | 290 | 202 | 185 | 185 | 185 | 145 | 145 | 145 | 118 | 118 | 118 |
| DN80 | 310 | 219 | 200 | 200 | 200 | 160 | 160 | 160 | 132 | 132 | 132 |
| DN100 | 350 | 243 | 220 | 220 | 235 | 180 | 180 | 190 | 156 | 156 | 156 |
| DN125 | 400 | 243 | 250 | 250 | 270 | 210 | 210 | 220 | 156 | 156 | 156 |
| DN150 | 480 | 333 | 285 | 285 | 300 | 240 | 240 | 250 | 211 | 211 | 211 |
| DN200 | 600 | 428 | 340 | 340 | 360 | 295 | 295 | 310 | 266 | 266 | 274 |
| DN250 | 730 | 478 | 405 | 405 | 425 | 350 | 355 | 370 | 319 | 319 | 330 |
| DN300 | 850 | 538 | 460 | 460 | 485 | 400 | 410 | 430 | 370 | 370 | 389 |
| DN350 | 980 | 550 | 520 | 520 | 555 | 460 | 470 | 490 | 429 | 429 | 448 |
| DN400 | 1100 | 710 | 580 | 580 | 620 | 515 | 525 | 550 | 480 | 480 | 503 |
| DN450 | 1200 | 720 | 640 | 640 | 670 | 565 | 585 | 600 | 530 | 548 | 548 |
| DN500 | 1250 | 822 | 715 | 715 | 730 | 620 | 650 | 660 | 582 | 609 | 609 |
| DN600 | 1450 | 885 | 840 | 840 | 845 | 725 | 770 | 770 | 682 | 720 | 720 |
| DN700 | 1650 | 910 | 910 | 910 | 960 | 840 | 840 | 875 | 682 | 720 | 720 |
| DN800 | 1850 | 1260 | 1025 | 1025 | 1085 | 950 | 950 | 990 | 901 | 901 | 928 |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

A500 Pressure Relief / Sustaining Valve

REF **EFC-349** ISSUED 08 Jul 2026

BUILT ON THE A900 MAIN VALVE BODY

All A900 configurations share the same hydraulically operated body. An existing body can be repiloted in the field for a different duty by swapping the pilot assembly, without body replacement.

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN50 to DN800 |
| Pressure | PN10 to PN25 |
| End connection | flanged (EN 1092-2) / flanged (EN 1092-2) / flanged (EN 1092-2) / flanged (ANSI) / flanged (ANSI) |
| Face-to-face | BS EN 558-1 |
| Media | Water |

STANDARDS

| | |
|--------|--------------------------------|
| Design | EN 1074-5 |
| Test | ISO 5208, BS EN 12266-1 |

APPLICATIONS

- Pressure sustaining
- Pressure relief
- Pump station outlet
- Reservoir outlet



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|---------------|----------------------|---------------|--------------------------|
| Body | EN-GJS-500-7 | Bonnet | EN-GJS-500-7 |
| Fixing holder | EN-GJS-500-7 | Disc holder | EN-GJS-500-7 |
| Seat | AISI 304, 316 | Stem | AISI 304, 316 |
| Spring | AISI 304, 316 | Seat retainer | AISI 304, 316 |
| Bush | C61900 | Diaphragm | EPDM+Nylon Fabric |
| Seals | EPDM | O rings | NBR |
| Bolts | A2, A4 | Eye bolts | 1040 |

FEATURES

- The A500 operates as a pressure sustaining valve, holding a minimum upstream pressure to ensure adequate supply pressure is maintained at all times
- It can equally function as a pressure relief valve, opening to discharge excess pressure when upstream pressure exceeds a set limit
- Commonly installed at pump stations, reservoir outlets and district meter areas

PILOT ASSEMBLY & ACCESSORIES

PILOT ASSEMBLY

P500 Relief / Sustaining Pilot Sensing pilot — holds the main valve closed while upstream pressure is above the sustaining set point; opens to relieve when above the relief set point

COMPATIBLE ACCESSORIES

Needle Valve Adjusts response speed and damps oscillation in the pilot circuit

OTHER CONFIGURATIONS ON THIS BODY

- A100 Modulating Float Control Valve
- A203 Pressure Reducing with Check Valve
- A400 Flow Control Valve
- A76D Pump Control Valve - Double Chamber
- A10A Altitude Control Valve
- A14A Altitude with Rate of Flow Control Valve
- A205 Pressure Sustaining and Reducing Valve
- A20B Pressure Reducing Valve - High Flow
- A506 Pressure Sustaining Valve with Solenoid Control
- A7MD Pump Control Valve - Passive Protection
- A900 Automatic Control Valve - Threaded
- A200 Pressure Reducing Valve
- A300 Slow Control Check Valve
- A600 Solenoid Control Valve
- A900 Automatic Control Valve (Main Valve)
- A10B Bi-Level Float Control Valve
- A204 Pressure Reducing Valve with Flow Limiter
- A206 Pressure Reducing Solenoid Control Valve
- A2A5 Surge Anticipating Control Valve
- A6DV Dual Solenoid Control Valve
- A800 Pressure Differential Valve
- R900 Main Valve - Reduced Bore

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

PRESSURE-TEMPERATURE RATING

| CLASS | TEMPERATURE | MAX PRESSURE |
|-------|-------------|--------------|
| PN10 | -10°C | 10 bar |
| PN10 | 80°C | 10 bar |
| PN16 | -10°C | 16 bar |
| PN16 | 80°C | 16 bar |
| PN25 | -10°C | 25 bar |
| PN25 | 80°C | 25 bar |

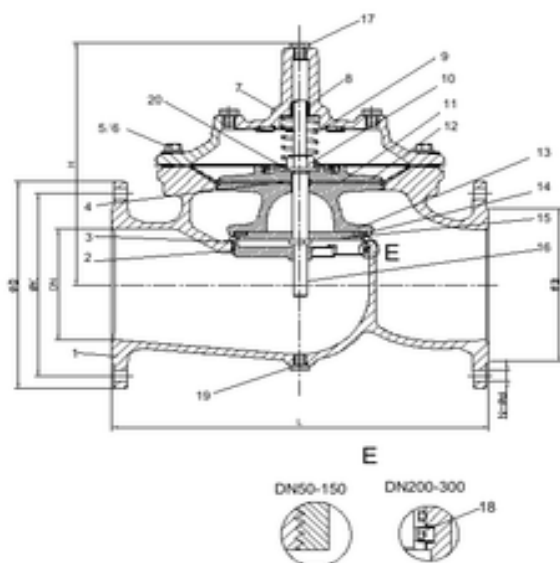
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CONTROL VALVE

A500 Pressure Relief / Sustaining Valve

SECTION Technical drawing 1 of 4 REF EFC-349

A900-Main Valve DN50-DN350



Parts List

| No. | Description | Material | Standard |
|-----|---------------|-------------------------|--------------------|
| 1 | Body | Ductile Iron | GJS 500-7 |
| 2 | Seat | Stainless Steel | AISI 304/316 |
| 3 | O-ring | Rubber | NBR |
| 4 | O-ring | Rubber | NBR |
| 5 | Bolt | Stainless Steel | A2/A4 |
| 6 | Washer | Stainless Steel | A2/A4 |
| 7 | Bonnet | Ductile Iron | GJS 500-7 |
| 8 | Bush | Bronze | C61900 |
| 9 | Spring | Stainless Steel | AISI 304/316 |
| 10 | Caulking Nut | Stainless Steel | A4 |
| 11 | Diaphragm | Nylon Reinforced Rubber | EPDM +Nylon Fabric |
| 12 | Fixing holder | Ductile Iron | GJS 500-7 |
| 13 | Disc Holder | Ductile Iron | GJS 500-7 |
| 14 | Seal | Rubber | EPDM |
| 15 | Seat Retainer | Stainless Steel | AISI 304/316 |
| 16 | Stem | Stainless Steel | AISI 304/316 |
| 17 | Plug | Stainless Steel | AISI 304/316 |
| 18 | Screw | Stainless Steel | A2/A4 |
| 19 | Plug | Stainless Steel | A2/A4 |
| 20 | Washer | Stainless Steel | A2/A4 |

Dimension:

| DN | Model Code | L | ØD | | | ØK | | | H | N-Ød | | | Unit: mm ØB | | |
|------|------------|-----|------|------|------|------|------|------|-----|--------|--------|--------|----------------|------|------|
| | | | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 | | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 |
| 50 | A900-0050 | 230 | 165 | 165 | 165 | 125 | 125 | 125 | 177 | 4-Ø19 | 4-Ø19 | 4-Ø19 | Ø99 | Ø99 | Ø99 |
| 65 | A900-0065 | 290 | 185 | 185 | 185 | 145 | 145 | 145 | 202 | 4-Ø19 | 4-Ø19 | 8-Ø19 | Ø118 | Ø118 | Ø118 |
| 80 | A900-0080 | 310 | 200 | 200 | 200 | 160 | 160 | 160 | 219 | 8-Ø19 | 8-Ø19 | 8-Ø19 | Ø132 | Ø132 | Ø132 |
| 100 | A900-0100 | 350 | 220 | 220 | 235 | 180 | 180 | 190 | 243 | 8-Ø19 | 8-Ø19 | 8-Ø23 | Ø156 | Ø156 | Ø156 |
| *125 | A900-0125 | 400 | 250 | 250 | 270 | 210 | 210 | 220 | 243 | 8-Ø19 | 8-Ø19 | 8-Ø28 | Ø156 | Ø156 | Ø156 |
| 150 | A900-0150 | 480 | 285 | 285 | 300 | 240 | 240 | 250 | 333 | 8-Ø23 | 8-Ø23 | 8-Ø28 | Ø211 | Ø211 | Ø211 |
| 200 | A900-0200 | 600 | 340 | 340 | 360 | 295 | 295 | 310 | 428 | 8-Ø23 | 12-Ø23 | 12-Ø28 | Ø266 | Ø266 | Ø274 |
| 250 | A900-0250 | 730 | 405 | 405 | 425 | 350 | 355 | 370 | 478 | 12-Ø23 | 12-Ø28 | 12-Ø31 | Ø319 | Ø319 | Ø330 |
| 300 | A900-0300 | 850 | 460 | 460 | 485 | 400 | 410 | 430 | 538 | 12-Ø23 | 12-Ø28 | 16-Ø31 | Ø370 | Ø370 | Ø389 |
| *350 | A900-0350 | 980 | 520 | 520 | 555 | 460 | 470 | 490 | 550 | 16-Ø23 | 16-Ø28 | 16-Ø34 | Ø429 | Ø429 | Ø448 |

NOTE: 1. *DN125/350 use same internal as DN100/300
2. AISI 304 factory standard material. consult factory for AISI 316 material.

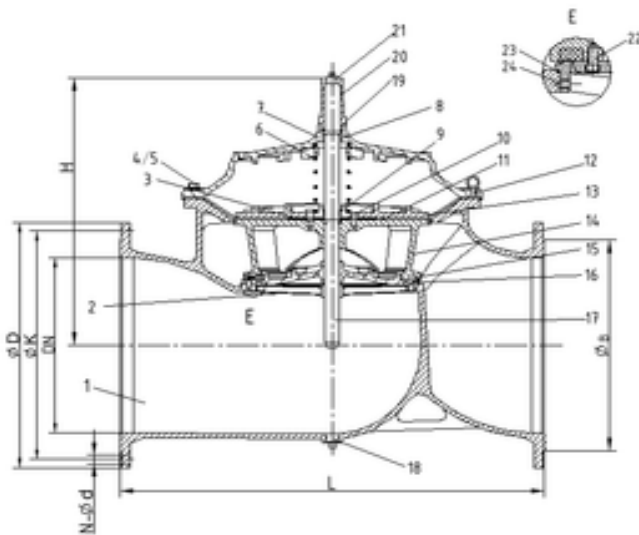
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CONTROL VALVE

A500 Pressure Relief / Sustaining Valve

SECTION Technical drawing 2 of 4 REF EFC-349

A900-Main Valve DN400-DN800



Parts List

| No. | Description | Material | Standard |
|-----|---------------|-------------------------|--------------------|
| 1 | Body | Ductile Iron | GJS 500-7 |
| 2 | Seat | Stainless Steel | AISI 304/316 |
| 3 | Screw | Stainless Steel | A2/A4 |
| 4 | Screw | Stainless Steel | A2/A4 |
| 5 | Screw | Stainless Steel | A2/A4 |
| 6 | Spring | Stainless Steel | AISI 304/316 |
| 7 | Bonnet | Ductile Iron | GJS 500-7 |
| 8 | Bush | Bronze | C61900 |
| 9 | O-ring | Rubber | NBR |
| 10 | Fix Washer | Bronze | C61900 |
| 11 | Diaphragm | Nylon Reinforced Rubber | EPDM +Nylon Fabric |
| 12 | Eye Bolts | Carbon Steel | 1040 |
| 13 | Fixing Holder | Ductile Iron | GJS 500-7 |
| 14 | Disc Holder | Ductile Iron | GJS 500-7 |
| 15 | Seal | Rubber | EPDM |
| 16 | Seal Retainer | Ductile Iron | GJS 500-7 |
| 17 | Stem | Stainless Steel | AISI 304/316 |
| 18 | Plug | Stainless Steel | AISI 304/316 |
| 19 | O-ring | Rubber | NBR |
| 20 | Cap | Ductile Iron | GJS 500-7 |
| 21 | Plug | Stainless Steel | AISI 304/316 |
| 22 | Screw | Stainless Steel | A2/A4 |
| 23 | O-ring | Rubber | NBR |
| 24 | Screw | Stainless Steel | A2/A4 |

Dimension:

Unit: mm

| DN | Model Code | L | H | ØD | | | ØK | | | N-Ød | | | ØB | | |
|------|------------|------|------|------|------|------|------|------|------|--------|--------|--------|------|------|------|
| | | | | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 |
| 400 | A900-0400 | 1100 | 710 | 580 | 580 | 620 | 515 | 525 | 550 | 16-Ø28 | 16-Ø31 | 16-Ø37 | 480 | 480 | 503 |
| *450 | A900-0450 | 1200 | 720 | 640 | 640 | 670 | 565 | 585 | 600 | 20-Ø28 | 20-Ø31 | 20-Ø37 | 530 | 548 | 548 |
| 500 | A900-0500 | 1250 | 822 | 715 | 715 | 730 | 620 | 650 | 660 | 20-Ø28 | 20-Ø34 | 20-Ø37 | 582 | 609 | 609 |
| 600 | A900-0600 | 1450 | 885 | 840 | 840 | 845 | 725 | 770 | 770 | 20-Ø31 | 20-Ø37 | 20-Ø40 | 682 | 720 | 720 |
| *700 | A900-0700 | 1650 | 910 | 910 | 910 | 960 | 840 | 840 | 875 | 24-Ø31 | 24-Ø37 | 24-Ø43 | 682 | 720 | 720 |
| 800 | A900-0800 | 1850 | 1260 | 1025 | 1025 | 1085 | 950 | 950 | 990 | 24-Ø34 | 24-Ø40 | 24-Ø49 | 901 | 901 | 928 |

Note: 1. *DN450/700 use same internal as DN400/600.

2. AISI 304 factory standard material. consult factory for AISI 316 material.

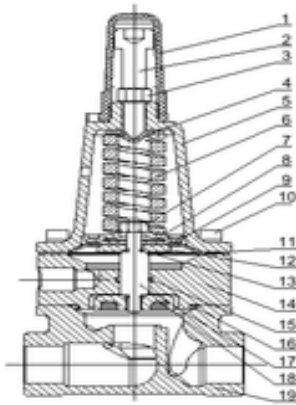
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CONTROL VALVE

A500 Pressure Relief / Sustaining Valve

SECTION Technical drawing 3 of 4 REF EFC-349

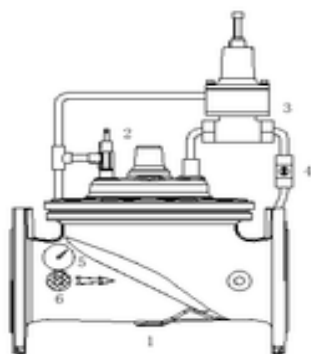
P500 Relief/Sustaining Pilot



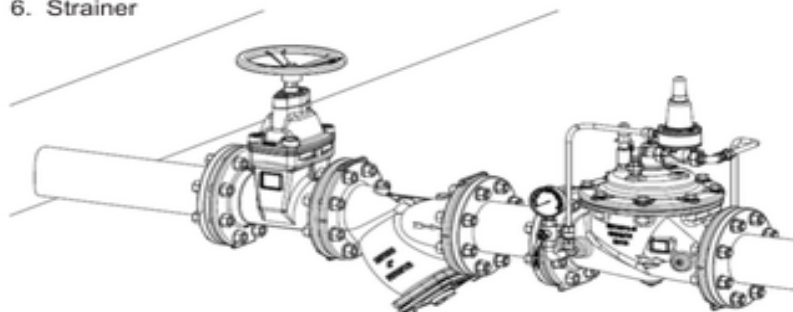
Part list & Material

| No. | Description | Material | Standard |
|-----|-----------------|-------------------------|--------------------|
| 1 | Cap | Plastic | ABS |
| 2 | Adjusting Screw | Stainless Steel | AISI 304 |
| 3 | Jam Nut | Stainless Steel | AISI 304 |
| 4 | Spring table | Stainless Steel | AISI 304 |
| 5 | Bonnet | Stainless Steel | AISI 304 |
| 6 | Spring | Spring Steel | SiCrV |
| 7 | Nut | Stainless Steel | A2 |
| 8 | Spring table | Spring Steel | Mn-steel+Ni Plated |
| 9 | Fixing Holder | Stainless Steel | AISI 304 |
| 10 | Screw | Stainless Steel | A2 |
| 11 | Diaphragm | Nylon Reinforced Rubber | EPDM+Nylon |
| 12 | Gasket | Stainless Steel | AISI 304 |
| 13 | O-Ring | Rubber | NBR |
| 14 | Internal Body | Stainless Steel | AISI 304 |
| 15 | O-Ring | Rubber | NBR |
| 16 | O-Ring | Rubber | NBR |
| 17 | Stem | Stainless Steel | AISI 304 |
| 18 | Disc | Stainless Steel+Rubber | AISI 304+EPDM |
| 19 | Body | Stainless Steel | AISI 304 |

A500 Pressure Relief/Sustaining Valve



1. Main Valve
2. Needle Valve
3. P500
4. Ball Valve
5. Inlet Pressure Gauge (Optional)
6. Strainer



Function:

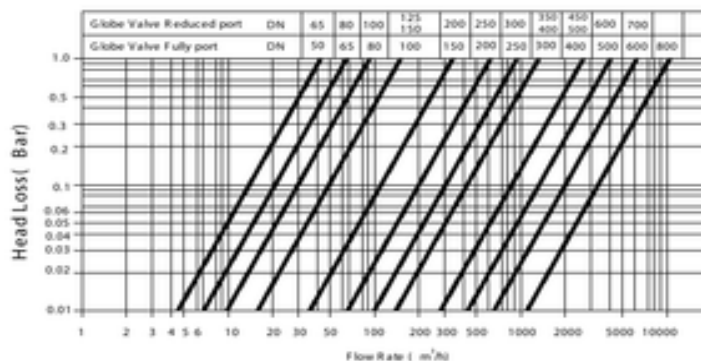
1. Relief: whenever the system pressure exceeds the preset of the pilot, the valve will immediately open to release excess pressure and keep system in a safe state
2. Sustaining: prevents upstream pressure (mainline) from dropping below the preset pressure.

CONTROL VALVE

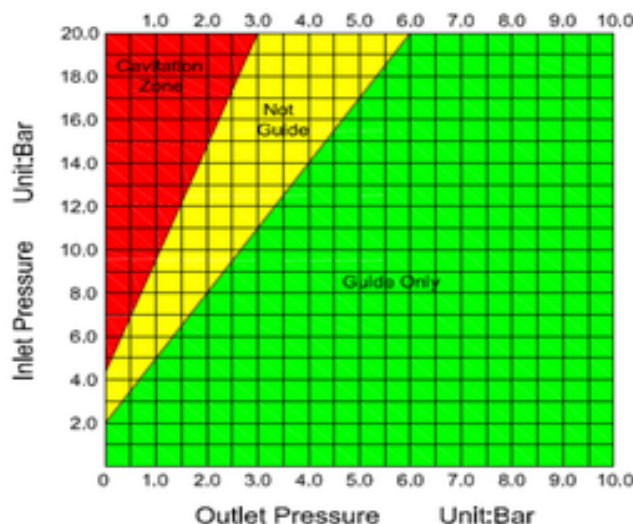
A500 Pressure Relief / Sustaining Valve

SECTION Technical drawing 4 of 4 REF EFC-349

Head Loss Curve



Cavitation



Ordering Code

A500-0200-16-YYY

Model:

A500: Pressure Relief/Sustaining Valve

YYY: Special Code
Please Consult Factory

Pressure Rating:

- 10: PN10
- 16: PN16
- 25: PN25
- A1: ANSI 125 F/F
- A5: ANSI 150 R/F

Size:

- 0080: 80 mm
- 0200: 200 mm

CONTROL VALVE

A500 Pressure Relief / Sustaining Valve

SECTION Dimensions per size REF EFC-349

| SIZE | L | HOD_PN10OD_PN16OD_PN25OK_PN10OK_PN16OK_PN25OB_PN10OB_PN16OB_PN25 | | | | | | | | | |
|-------|------|--|------|------|------|-----|-----|-----|-----|-----|-----|
| DN50 | 230 | 177 | 165 | 165 | 165 | 125 | 125 | 125 | 99 | 99 | 99 |
| DN65 | 290 | 202 | 185 | 185 | 185 | 145 | 145 | 145 | 118 | 118 | 118 |
| DN80 | 310 | 219 | 200 | 200 | 200 | 160 | 160 | 160 | 132 | 132 | 132 |
| DN100 | 350 | 243 | 220 | 220 | 235 | 180 | 180 | 190 | 156 | 156 | 156 |
| DN125 | 400 | 243 | 250 | 250 | 270 | 210 | 210 | 220 | 156 | 156 | 156 |
| DN150 | 480 | 333 | 285 | 285 | 300 | 240 | 240 | 250 | 211 | 211 | 211 |
| DN200 | 600 | 428 | 340 | 340 | 360 | 295 | 295 | 310 | 266 | 266 | 274 |
| DN250 | 730 | 478 | 405 | 405 | 425 | 350 | 355 | 370 | 319 | 319 | 330 |
| DN300 | 850 | 538 | 460 | 460 | 485 | 400 | 410 | 430 | 370 | 370 | 389 |
| DN350 | 980 | 550 | 520 | 520 | 555 | 460 | 470 | 490 | 429 | 429 | 448 |
| DN400 | 1100 | 710 | 580 | 580 | 620 | 515 | 525 | 550 | 480 | 480 | 503 |
| DN450 | 1200 | 720 | 640 | 640 | 670 | 565 | 585 | 600 | 530 | 548 | 548 |
| DN500 | 1250 | 822 | 715 | 715 | 730 | 620 | 650 | 660 | 582 | 609 | 609 |
| DN600 | 1450 | 885 | 840 | 840 | 845 | 725 | 770 | 770 | 682 | 720 | 720 |
| DN700 | 1650 | 910 | 910 | 910 | 960 | 840 | 840 | 875 | 682 | 720 | 720 |
| DN800 | 1850 | 1260 | 1025 | 1025 | 1085 | 950 | 950 | 990 | 901 | 901 | 928 |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

A205 Pressure Sustaining and Reducing Valve

REF **EFC-358** ISSUED 08 Jul 2026

BUILT ON THE A900 MAIN VALVE BODY

All A900 configurations share the same hydraulically operated body. An existing body can be repiloted in the field for a different duty by swapping the pilot assembly, without body replacement.

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN50 to DN800 |
| Pressure | PN10 to PN25 |
| End connection | flanged (EN 1092-2) / flanged (EN 1092-2) / flanged (EN 1092-2) |
| Face-to-face | BS EN 558-1 |
| Media | Water |

STANDARDS

| | |
|--------|--------------------------------|
| Design | EN 1074-5 |
| Test | ISO 5208, BS EN 12266-1 |

APPLICATIONS

- Pressure zone boundaries
- Shared transmission mains
- Reservoir inlets
- Bulk supply metering



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|---------------|----------------------|---------------|----------------------|
| Body | EN-GJS-500-7 | Seat | AISI 304, 316 |
| O ring | NBR | Bolt | A2, A4 |
| Washer | A2, A4 | Bonnet | EN-GJS-500-7 |
| Bush | C61900 | Spring | AISI 304, 316 |
| Caulking nut | A4 | Diaphragm | EPDM+Nylon |
| Fixing holder | EN-GJS-500-7 | Disc holder | EN-GJS-500-7 |
| Seal | EPDM | Seat retainer | AISI 304, 316 |
| Stem | AISI 304, 316 | Plug | AISI 304, 316 |
| Screw | A2, A4 | Fix washer | C61900 |
| Eye bolts | 1040 | Seal retainer | EN-GJS-500-7 |
| Cap | EN-GJS-500-7 | | |

FEATURES

- The A205 combines pressure reduction with pressure sustaining in a single valve
- The PRV pilot reduces downstream pressure to the set value while the sustaining pilot ensures upstream pressure does not fall below a minimum threshold
- When demand is high and upstream pressure approaches the sustaining set point, the sustaining pilot takes control to protect the upstream supply
- Used where one transmission main serves multiple zones with differing supply commitments

PILOT ASSEMBLY & ACCESSORIES

PILOT ASSEMBLY

| | |
|---------------------------------------|---|
| P200 Reducing Pilot | Reducing pilot — maintains downstream pressure at the pre-set value |
| P500 Relief / Sustaining Pilot | Sustaining pilot — prevents upstream pressure falling below the minimum threshold when demand is high |

COMPATIBLE ACCESSORIES

| | |
|---------------------|---|
| Needle Valve | Adjusts response speed and damps oscillation in the pilot circuit |
|---------------------|---|

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER CONFIGURATIONS ON THIS BODY

- A100 Modulating Float Control Valve
- A203 Pressure Reducing with Check Valve
- A400 Flow Control Valve
- A600 Solenoid Control Valve
- A900 Automatic Control Valve (Main Valve)
- A10B Bi-Level Float Control Valve
- A204 Pressure Reducing Valve with Flow Limiter
- A20B Pressure Reducing Valve - High Flow
- A506 Pressure Sustaining Valve with Solenoid Control
- A7MD Pump Control Valve - Passive Protection
- A900 Automatic Control Valve - Threaded
- A200 Pressure Reducing Valve
- A300 Slow Control Check Valve
- A500 Pressure Relief / Sustaining Valve
- A76D Pump Control Valve - Double Chamber
- A10A Altitude Control Valve
- A14A Altitude with Rate of Flow Control Valve
- A206 Pressure Reducing Solenoid Control Valve
- A2A5 Surge Anticipating Control Valve
- A6DV Dual Solenoid Control Valve
- A800 Pressure Differential Valve
- R900 Main Valve - Reduced Bore

PRESSURE-TEMPERATURE RATING

| CLASS | TEMPERATURE | MAX PRESSURE |
|-------|-------------|--------------|
| PN10 | -10°C | 10 bar |
| PN10 | 80°C | 10 bar |
| PN16 | -10°C | 16 bar |
| PN16 | 80°C | 16 bar |
| PN25 | -10°C | 25 bar |
| PN25 | 80°C | 25 bar |

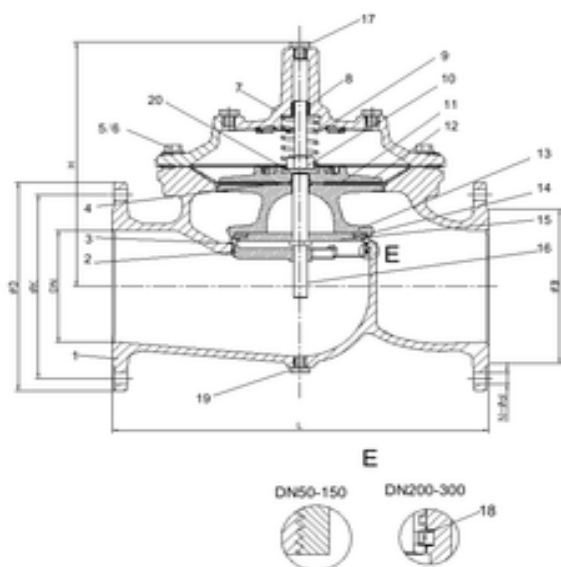
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CONTROL VALVE

A205 Pressure Sustaining and Reducing Valve

SECTION Technical drawing 1 of 2 REF EFC-358

A900-Main Valve DN50-DN350



Parts List

| No. | Description | Material | Standard |
|-----|---------------|-------------------------|--------------------|
| 1 | Body | Ductile Iron | GJS 500-7 |
| 2 | Seat | Stainless Steel | AISI 304/316 |
| 3 | O-ring | Rubber | NBR |
| 4 | O-ring | Rubber | NBR |
| 5 | Bolt | Stainless Steel | A2/A4 |
| 6 | Washer | Stainless Steel | A2/A4 |
| 7 | Bonnet | Ductile Iron | GJS 500-7 |
| 8 | Bush | Bronze | C61900 |
| 9 | Spring | Stainless Steel | AISI 304/316 |
| 10 | Caulking Nut | Stainless Steel | A4 |
| 11 | Diaphragm | Nylon Reinforced Rubber | EPDM +Nylon Fabric |
| 12 | Fixing holder | Ductile Iron | GJS 500-7 |
| 13 | Disc Holder | Ductile Iron | GJS 500-7 |
| 14 | Seal | Rubber | EPDM |
| 15 | Seat Retainer | Stainless Steel | AISI 304/316 |
| 16 | Stem | Stainless Steel | AISI 304/316 |
| 17 | Plug | Stainless Steel | AISI 304/316 |
| 18 | Screw | Stainless Steel | A2/A4 |
| 19 | Plug | Stainless Steel | A2/A4 |
| 20 | Washer | Stainless Steel | A2/A4 |

Dimension:

| DN | Model Code | L | ØD | | | ØK | | | H | N-Ød | | | Unit: mm ØB | | |
|------|------------|-----|------|------|------|------|------|------|-----|--------|--------|--------|----------------|------|------|
| | | | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 | | PN10 | PN16 | PN25 | PN10 | PN16 | PN25 |
| 50 | A900-0050 | 230 | 165 | 165 | 165 | 125 | 125 | 125 | 177 | 4-Ø19 | 4-Ø19 | 4-Ø19 | Ø99 | Ø99 | Ø99 |
| 65 | A900-0065 | 290 | 185 | 185 | 185 | 145 | 145 | 145 | 202 | 4-Ø19 | 4-Ø19 | 8-Ø19 | Ø118 | Ø118 | Ø118 |
| 80 | A900-0080 | 310 | 200 | 200 | 200 | 160 | 160 | 160 | 219 | 8-Ø19 | 8-Ø19 | 8-Ø19 | Ø132 | Ø132 | Ø132 |
| 100 | A900-0100 | 350 | 220 | 220 | 235 | 180 | 180 | 190 | 243 | 8-Ø19 | 8-Ø19 | 8-Ø23 | Ø156 | Ø156 | Ø156 |
| *125 | A900-0125 | 400 | 250 | 250 | 270 | 210 | 210 | 220 | 243 | 8-Ø19 | 8-Ø19 | 8-Ø28 | Ø156 | Ø156 | Ø156 |
| 150 | A900-0150 | 480 | 285 | 285 | 300 | 240 | 240 | 250 | 333 | 8-Ø23 | 8-Ø23 | 8-Ø28 | Ø211 | Ø211 | Ø211 |
| 200 | A900-0200 | 600 | 340 | 340 | 360 | 295 | 295 | 310 | 428 | 8-Ø23 | 12-Ø23 | 12-Ø28 | Ø266 | Ø266 | Ø274 |
| 250 | A900-0250 | 730 | 405 | 405 | 425 | 350 | 355 | 370 | 478 | 12-Ø23 | 12-Ø28 | 12-Ø31 | Ø319 | Ø319 | Ø330 |
| 300 | A900-0300 | 850 | 460 | 460 | 485 | 400 | 410 | 430 | 538 | 12-Ø23 | 12-Ø28 | 16-Ø31 | Ø370 | Ø370 | Ø389 |
| *350 | A900-0350 | 980 | 520 | 520 | 555 | 460 | 470 | 490 | 550 | 16-Ø23 | 16-Ø28 | 16-Ø34 | Ø429 | Ø429 | Ø448 |

NOTE: 1. *DN125/350 use same internal as DN100/300
2. AISI 304 factory standard material. consult factory for AISI 316 material.

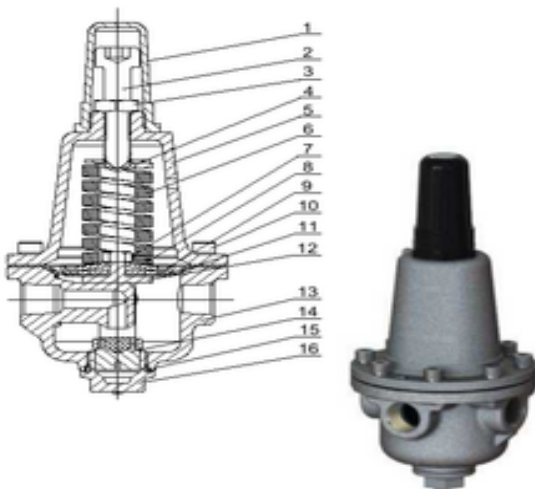
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CONTROL VALVE

A205 Pressure Sustaining and Reducing Valve

SECTION Technical drawing 2 of 2 REF EFC-358

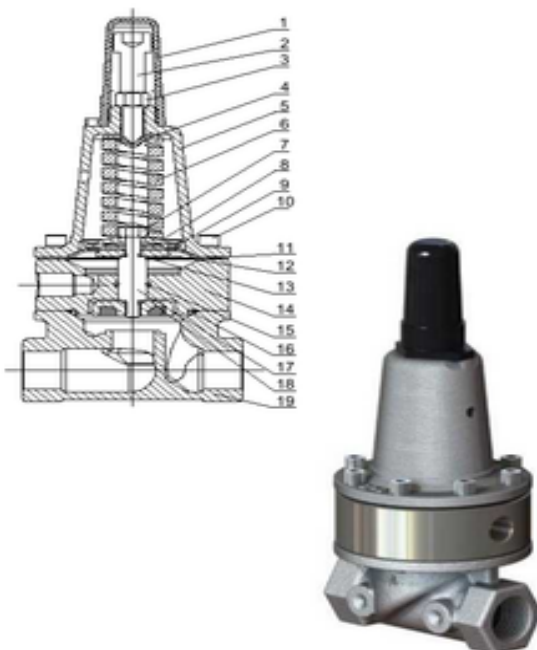
P200-Reducing Pilot



Part list & Material

| No. | Description | Material | Standard |
|-----|-----------------|-------------------------|--------------------|
| 1 | Cap | Plastic | ABS |
| 2 | Adjusting Screw | Stainless Steel | AISI 304 |
| 3 | Jam Nut | Stainless Steel | A2 |
| 4 | Spring table | Stainless Steel | AISI 304 |
| 5 | Bonnet | Stainless Steel | AISI 304 |
| 6 | Spring | Spring Steel | SiCrV |
| 7 | Nut | Stainless Steel | A2 |
| 8 | Spring table | Spring Steel | Mn-steel+Ni Plated |
| 9 | Fixing Holder | Stainless Steel | AISI 304 |
| 10 | Screw | Stainless Steel | A2 |
| 11 | Diaphragm | Nylon Reinforced Rubber | EPDM+Nylon |
| 12 | Yoke | Stainless Steel | AISI 304 |
| 13 | Body | Stainless Steel | AISI 304 |
| 14 | Disc | Stainless Steel+Rubber | AISI 304+EPDM |
| 15 | O-Ring | Rubber | NBR |
| 16 | Plug | Stainless Steel | AISI 304 |

P500-Relief/Sustaining Pilot



Part list & Material

| No. | Description | Material | Standard |
|-----|-----------------|-------------------------|--------------------|
| 1 | Cap | Plastic | ABS |
| 2 | Adjusting Screw | Stainless Steel | AISI 304 |
| 3 | Jam Nut | Stainless Steel | AISI 304 |
| 4 | Spring table | Stainless Steel | AISI 304 |
| 5 | Bonnet | Stainless Steel | AISI 304 |
| 6 | Spring | Spring Steel | SiCrV |
| 7 | Nut | Stainless Steel | A2 |
| 8 | Spring table | Spring Steel | Mn-steel+Ni Plated |
| 9 | Fixing Holder | Stainless Steel | AISI 304 |
| 10 | Screw | Stainless Steel | A2 |
| 11 | Diaphragm | Nylon Reinforced Rubber | EPDM+Nylon |
| 12 | Gasket | Stainless Steel | AISI 304 |
| 13 | O-Ring | Rubber | NBR |
| 14 | Internal Body | Stainless Steel | AISI 304 |
| 15 | O-Ring | Rubber | NBR |
| 16 | O-Ring | Rubber | NBR |
| 17 | Stem | Stainless Steel | AISI 304 |
| 18 | Disc | Stainless Steel+Rubber | AISI 304+EPDM |
| 19 | Body | Stainless Steel | AISI 304 |

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CONTROL VALVE

A205 Pressure Sustaining and Reducing Valve

SECTION Dimensions per size REF EFC-358

| SIZE | L | HOD_PN10OD_PN16OD_PN25OK_PN10OK_PN16OK_PN25OB_PN10OB_PN16OB_PN25 |
|-------|------|--|
| DN50 | 230 | 177 165 165 165 125 125 125 99 99 99 |
| DN65 | 290 | 202 185 185 185 145 145 145 118 118 118 |
| DN80 | 310 | 219 200 200 200 160 160 160 132 132 132 |
| DN100 | 350 | 243 220 220 235 180 180 190 156 156 156 |
| DN125 | 400 | 243 250 250 270 210 210 220 156 156 156 |
| DN150 | 480 | 333 285 285 300 240 240 250 211 211 211 |
| DN200 | 600 | 428 340 340 360 295 295 310 266 266 274 |
| DN250 | 730 | 478 405 405 425 350 355 370 319 319 330 |
| DN300 | 850 | 538 460 460 485 400 410 430 370 370 389 |
| DN350 | 980 | 550 520 520 555 460 470 490 429 429 448 |
| DN400 | 1100 | 710 580 580 620 515 525 550 480 480 503 |
| DN450 | 1200 | 720 640 640 670 565 585 600 530 548 548 |
| DN500 | 1250 | 822 715 715 730 620 650 660 582 609 609 |
| DN600 | 1450 | 885 840 840 845 725 770 770 682 720 720 |
| DN700 | 1650 | 910 910 910 960 840 840 875 682 720 720 |
| DN800 | 1850 | 1260 1025 1025 1085 950 950 990 901 901 928 |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CONTROL VALVE

Axial Flow Control Valve

REF **EFC-464** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN50 to DN1200 |
| Pressure | Class 150 to Class 2500 |
| End connection | flanged |
| Temperature | -46°C to 280°C |
| Media | natural gas, crude oil, refined oil, non-corrosive gases, non-corrosive liquids |

ACTUATION

- electric
- pneumatic
- hydraulic

STANDARDS

| | |
|------|------------------------------|
| Test | FCI 70-2, IEC 60534-4 |
|------|------------------------------|

APPLICATIONS

- Oil & Gas
- Chemical
- Water
- Mining
- LNG
- Power



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|-----------|-----------------------|------|---------------------------|
| Body | WCB, CF8, CF8M | Trim | 304, 316, 1Cr17Ni2 |
| Seat ring | NBR, FKM | | |

FEATURES

-
- Self-balanced pressure design on upper and lower sides of the valve plug enables tight shutoff with low actuator thrust
 - Suitable for large-size and high-pressure applications
 - Straight-through streamlined internal flow path reduces flow resistance and achieves higher Cv value
 - Flow capacity increased by approximately 20% - 50% compared to conventional designs
 - Low flow resistance coefficient
 - High-precision positioning and fast response
 - Rangeability of 100:1
 - Leakage Class IV, V, or VI per FCI 70-2 and IEC 60534-4
 - Flow characteristics: linear, equal percentage, or customised
 - Compact design and small installation footprint
 - Long service life and low maintenance requirements

OPTIONS & NOTES

-
- Other body materials available upon request
 - Other trim materials available upon request
 - High-performance sealing rings available for seat ring

CONTROL VALVE

Self-operated Differential Pressure Regulator

REF **EFC-467** ISSUED **08 Jul 2026**

SPECIFICATIONS

| | |
|-------------|---|
| Size | DN15 to DN250 |
| Pressure | PN16 to PN40 |
| Temperature | 0°C to 200°C |
| Media | Non-corrosive liquids, Non-corrosive gases |

ACTUATION

- Self-operated (self-pressurised) — Actuated directly by process medium pressure differential; no external energy source required

APPLICATIONS

- Water supply systems
- Petrochemical processes
- Heating and thermal supply networks
- Energy industry
- Papermaking
- Food processing
- Steel production
- Natural gas extraction and transportation
- Gas transmission systems



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|------|----------------|---------|-----------------|
| Body | WCB, CF8, CF8M | Bellows | Stainless Steel |
|------|----------------|---------|-----------------|

FEATURES

- No external energy supply required; self-operated via process medium
- Stainless steel bellows pressure-balancing design for low unbalanced force and high sensitivity
- Supports internal and external pressure tapping
- Wide and adjustable set-point range; set point adjusted by nut
- Soft-sealing valve plug available for high sealing requirements
- Standard modular design with high levels of standardisation and interchangeability

OPTIONS & NOTES

- Voltage regulating range ZA3: 0.1~0.6 MPa, 0.015~0.15 MPa, 0.05~0.3 MPa, 0.01~0.07 MPa, 0.005~0.035 MPa
- Voltage regulating range ZA4: 0.1~0.5 MPa, 0.005~0.12 MPa, 0.05~0.25 MPa, 0.01~0.06 MPa, 0.005~0.035 MPa
- Actuator accessories available (details on request)

CONTROL VALVE

CHM703 High-Pressure, High-Temperature, Multi-Stage Pressure-Reducing Control Valve

REF EFC-472 ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| End connection | various |
| Temperature | -5°C to 566°C |
| Media | High-pressure differential fluids, Fluids containing particles, Cavitating fluids, Flashing fluids |

ACTUATION

- Pneumatic
- Electric
- Other — Any type of drive device and accessories can be fitted

STANDARDS

| | |
|--------|------|
| Design | ASME |
|--------|------|

APPLICATIONS

- Petroleum pipelines
- Chemical engineering pipelines
- Power generation equipment pipelines
- Metallurgy pipelines
- High-pressure differential fluid applications with cavitation, flashing, vibration, or high noise



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | |
|------|--|
| Body | WCB, WCC, LCB, LCC, WC6, WC9, CF8, CF8M, CF3, CF3M, Forged 20, 304, 316, 304L, 316L |
|------|--|

FEATURES

- Multi-stage pressure reduction to suppress cavitation, flashing, vibration, and high noise
- Suitable for fluids containing particles
- Low noise and vibration-free operation
- Tight shut-off with good regulation performance
- Compact structure with reliable sealing
- Shock and vibration resistant construction
- Suitable for frequent opening/closing and high-load operation
- Multiple body connection forms available
- Compatible with any actuator type and accessories
- Few wear parts; simple maintenance

OPTIONS & NOTES

- Special Custom Type (TII) for temperatures exceeding +566°C — please contact the technical department for details
- Other materials available on request

GLOBE VALVE

Cast Steel Globe Valve

REF **EFC-16** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN15 to DN300 |
| Pressure | Class 150 to Class 2500 |
| End connection | flanged / flanged / butt weld (ASME B16.25) |
| Face-to-face | ASME B16.10 |
| Temperature | null°C to null°C |
| Media | Water, Steam, Oil, Nitric acid, Acetic acid, Urea |

STANDARDS

| | |
|--------|---------------|
| Design | API600 |
| Test | API598 |



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|-------------|--|--------|---|
| Body bonnet | WCB, WC1, WC6, WC9, C5, C12, CF8, CF8M, CF3, CF3M | Stem | 2Cr13, 38CrMoAl, 25Cr2MoV, F304, F316, F304L, F316L |
| Seat | 13Cr, STL, Body Material, Nylon | Gasket | Enhanced Flexible Graphite, 13Cr, flexible graphite, 1Cr13, Flexible Graphite, SFB-2, Soft Steal, F304, F316, F304L, F316L |
| Packing | Flexible Graphite, Enhanced Flexible Graphite, SFB, SFB260, SFP, SFP260, PTFE | Body | WCB (Cast Carbon Steel) |
| Bonnet | WCB, WC1, WC6, WC9, C5, C12, CF8, CF8M, CF3, CF3M | | |

FEATURES

- Simple structure, convenient manufacturing and maintenance
- Small working stroke and short opening and closing time
- Stem subject to modulation and surface nitriding treatment for corrosion resistance
- Low friction force between sealing surfaces for extended service life
- Body casting marked '8' indicating DN200 / 8 inch nominal bore
- Pressure class marking '150' visible on body (ASME Class 150)
- Body material marking 'WCB' visible on casting
- Flanged end connections
- Rising stem with handwheel operator
- Bolted bonnet construction
- Gland packing visible at stem

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

GLOBE VALVE

Forged Steel Globe Valve

REF **EFC-22** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | NPS 3/4" to NPS 2" |
| Pressure | 150 to 2500 |
| End connection | flanged / socket weld / butt weld / flanged |
| Face-to-face | ASME B16.10 |
| Temperature | -29°C to 500°C |

STANDARDS

| | |
|--------|----------------|
| Design | API 602 |
| Test | API 598 |



MATERIALS

| | | | |
|---------------|---|------|---|
| Body | A105, A182 F22, A182 F304(L), A182 F316(L) | Seat | A276 420, A276 304, A276 304(L), A276 316(L) |
| Disc | A182 F430&410, A182 F304, A182 F304(L), A182 F316(L) | Stem | A182 F6, A182 F304, A182 F304(L), A182 F316(L) |
| Gland packing | A276 410, A182 F304(L), A182 F316(L) | | |

FEATURES

- Smooth flow channel with low flow coefficient; sealing surface resistant to medium erosion and abrasion.
- Sealing surface constructed from alloy steel or hard alloy for wear and scratch resistance.
- Flexible graphite packing used for stem sealing.
- Gland packing can be replaced and maintained during online shutdown without affecting system operation.
- Flanged end connections
- Handwheel operator
- Bolted bonnet construction
- Gland packing assembly with gland followers and nuts
- Globe valve body pattern
- Casting markings visible on body - partial text appears to read 'A125' class rating

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

GLOBE VALVE

Forged Steel Globe Valve

REF **EFC-480** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN6 to DN80 |
| Pressure | CL150 to CL4500 |
| End connection | socket weld (ASME B16.11) / threaded (ASME B1.20.1) / flanged (ASME B16.5) / butt weld (ASME B16.25) |
| Face-to-face | ASME B16.10, Factory standard (socket welding / threaded end) |
| Temperature | -196°C to 600°C |
| Media | tap water, sewage, petroleum, chemical media, food, medicine, textile process fluids, power generation fluids, metallurgical process fluids, energy system fluids |

STANDARDS

| | |
|--------|-------------------------|
| Design | API 602, BS 5352 |
| Test | API 602, API 598 |

APPLICATIONS

- tap water systems
- sewage systems
- construction
- oil and gas
- chemical industry
- food processing
- pharmaceutical
- textile
- power generation
- metallurgy
- energy systems



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|--------|--|---------|--------------------------|
| Body | Carbon Steel, Stainless Steel, Alloy Steel | Packing | Flexible Graphite |
| Gasket | Stainless steel wire / flexible graphite wound gasket | | |

FEATURES

- Main components are forged
- Three bonnet seal options: bolted bonnet with wound gasket, welded bonnet (threaded + full weld), and pressure self-tightening middle-cavity seal
- Bolted bonnet sealed with stainless steel/flexible graphite wound gasket; metal ring connection available on request
- Welded bonnet uses threaded plus full-penetration weld; full-penetration-only option available on request
- Pressure self-tightening seal available for CL900, CL1500, CL2500, and CL4500
- Sealing performance increases with rising internal pressure
- Tortuous internal flow channel; higher fluid resistance than gate valve
- No relative sliding between disc and seating surface during opening/closing, reducing wear and extending seat life
- Flexible graphite packing for reliable sealing and light operation
- Unidirectional medium flow; installation direction must match arrow on valve body
- Packing can be replaced under system shutdown without removing valve from line
- Compact structure with short face-to-face length
- Reduced-bore design; most sizes are reduced diameter
- Maximum diameter generally not exceeding DN80

OPTIONS & NOTES

- Metal ring bonnet connection available when customers have special requirements
- Full penetration welded bonnet connection available when customers have special requirements
- Structural length for socket welding and threaded ends follows factory standard

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

GLOBE VALVE

Insulated Globe Valve

REF **EFC-497** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN15 to DN600 |
| Pressure | PN16 / Class 150 to PN160 / Class 900 |
| End connection | flanged (ASME B16.5) / flanged (GB/T 9113) / butt weld (ASME B16.25) / butt weld (GB/T 12224) |
| Face-to-face | ASME B16.10, JB/T 13458 |
| Temperature | -29°C to 538°C |
| Media | High-viscosity media that solidify at room temperature, Media prone to crystallisation |



ACTUATION

- Manual handwheel
- Pneumatic actuator
- Electric actuator

STANDARDS

| | |
|--------|-------------------------------------|
| Design | BS 1873, API 623, JB/T 13458 |
| Test | API 598, GB/T 13927 |

APPLICATIONS

- Petroleum refining
- Petrochemicals
- Offshore oil
- Urban water engineering
- Chemical industry
- Fertiliser industry
- Metallurgy
- Pharmaceutical

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon steel, Stainless steel, Alloy steel**

FEATURES

- Insulation jacket welded between the two body flanges
- Two connection ports for the jacket medium located on the side and bottom of the valve
- Steam or heating medium in the jacket prevents crystallisation of process medium
- Simple structure with relatively straightforward manufacture and maintenance
- Short stroke; reduced opening and closing time
- Low friction between sealing surfaces; extended service life

OPTIONS & NOTES

- Also available in NPS1/2 to NPS24 sizing designation

GLOBE VALVE

Oxygen Service Globe Valve

REF **EFC-515** ISSUED **08 Jul 2026**

SPECIFICATIONS

| | |
|----------------|---|
| Size | DN10 to DN400 |
| Pressure | PN210 |
| End connection | flanged (GB/T9113) / butt weld (GB/T12224) |
| Face-to-face | GB/T12221 |
| Temperature | -29°C to 200°C |
| Media | Oxygen (dew point not exceeding -30°C, purity (volume fraction) greater than 23.5%), Nitrogen, Hydrogen, Argon |

ACTUATION

- manual
- pneumatic
- electric

STANDARDS

| | |
|--------|--|
| Design | GB/T12235, GB 50030-2013, JB/T12955 |
| Test | GB/T26480 |

APPLICATIONS

- Physical and chemical experiments with high-purity gases
- Oxygen delivery systems
- High-pressure gas systems with pressure reduction and fine flow control



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon Steel, Stainless Steel, Alloy Steel** Trim **Stainless Steel, Brass, Monel Alloy**

FEATURES

- Forced sealing design: pressure applied to valve disc on closure to prevent leakage
- Oil-free design: all components strictly degreased during manufacturing; surfaces smooth and burr-free
- Compliant with high-cleaning standards for oxygen service
- Low torque operation to reduce mechanical friction and ignition risk
- Compact structure with fast heat transfer
- Flame retardant and electrically conductive materials of construction
- Fire safety certification to API 607 and API 6FA

OPTIONS & NOTES

- Operator options: Manual, Pneumatic, Electric, etc.

GLOBE VALVE

Forged Steel Globe Valve

REF **EFC-516** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 1 to NPS 16 |
| Pressure | Class 150 / PN16 to Class 2500 / PN420 |
| End connection | flanged (ASME B16.5 / BS 1560 / GB/T 9113 / GB/T 9124) / threaded / butt weld (ASME B16.25 / GB/T 12224) |
| Face-to-face | BS 2080, ASME B16.10, GB/T 12221 |
| Temperature | -29°C to 538°C |

ACTUATION

- Manual
- Electric
- Pneumatic

STANDARDS

| | |
|--------|-------------------------------------|
| Design | BS 1873, API 623, GB/T 12235 |
| Test | API 598, JB/T 9092 |

APPLICATIONS

- Power industry
- Petroleum refining
- Petrochemicals
- Offshore oil
- Urban water engineering
- Chemical industry



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon steel, Stainless steel, Alloy steel**

FEATURES

- Forged steel body providing superior strength, high-pressure resistance, and impact tolerance
- Integrates throttling regulation and positive shut-off in a single valve
- Compact structure reduces installation footprint and system weight
- Optional metal hard seal or soft seal for zero leakage
- Pressure rating range PN16-PN420 / Class 150-Class 2500
- Optimised flow path design to minimise pressure drop
- Precision machining combined with wear-resistant materials
- Available in straight-through (T-type) and direct-flow (Y-type) configurations
- Multiple connection options: flanged, threaded, butt weld

OPTIONS & NOTES

- Diameter of forged steel globe valves is generally not more than DN80; most are reduced-bore designs
- Medium flow direction restrictions apply, as with other globe valves
- Other connection types available on request

SLAB GATE VALVE

Expanding Slab Gate Valve

REF **EFC-440** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | NPS 2" / DN50 to NPS 60" / DN1500 |
| Pressure | Class 150 / PN10 to Class 2500 / PN420 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.47) / flanged (EN 1092) / butt weld (ASME B16.25) |
| Face-to-face | ASME B16.10, GB/T 12221, EN558 |
| Temperature | -60°C to 300°C |
| Media | tap water, sewage, petroleum, chemicals, food-grade media, gas, liquid |

ACTUATION

- manual
- pneumatic
- electric

STANDARDS

| | |
|--------|---|
| Design | ASME B16.34, GB/T 12234 |
| Test | API 598, API 6D, GB/T 13927, JB/T 9092, GOST 9544 |

APPLICATIONS

- tap water
- sewage
- construction
- petroleum
- chemical industry
- food industry
- pipeline isolation
- pipeline venting



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon Steel, Stainless Steel, Alloy Steel**

FEATURES

- Two parallel gate plates with a wedging device, replacing traditional single gate plate design
- Sealing elements are separate components to prevent deformation from thermal expansion and temperature differentials
- Sealing component materials are wear- and corrosion-resistant
- Bidirectional forced sealing capability
- Fully enclosed body design suitable for all weather conditions
- Low operating torque
- Rapid actuation
- Minimal vibration
- Extended operational life

OPTIONS & NOTES

- Operator options listed as 'Manual, Pneumatic, Electric, etc.' — additional actuator types available on request

SLAB GATE VALVE

HTHP Slab Gate Valve

REF **EFC-442** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS2 / DN50 to NPS24 / DN600 |
| Pressure | CLASS150 / PN16 to CLASS2500 / PN420 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.47) / butt weld (ASME B16.25) |
| Face-to-face | ASME B16.10 |
| Temperature | -29°C to 650°C |
| Media | high-temperature and high-pressure media |

ACTUATION

- manual
- pneumatic
- electric

STANDARDS

| | |
|--------|-----------------------------|
| Design | API 600, ASME B16.34 |
| Test | API 598 |

APPLICATIONS

- Power industry
- Petroleum refining
- Petrochemical
- Marine petroleum



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon Steel, Stainless Steel, Alloy Steel**

FEATURES

- Low fluid resistance; internal medium channel is straight-through with no change in flow direction
- Pressure self-tightening seal; sealing performance increases with pressure
- Valve body ends typically joined by butt weld
- Low operating torque for opening and closing
- Simple body structure
- Good sealing performance
- Reduced erosion of seating surfaces when fully open
- Bi-directional flow capability; suitable for installation in either orientation
- Long closing time reduces risk of water hammer
- Guide mechanism in valve body prevents gate rotation during operation, ensuring accurate seating surface alignment
- Gate does not contact seat until final closure, reducing seat wear
- Generally installed horizontally in pipeline

OPTIONS & NOTES

- Operator options include Manual, Pneumatic, Electric, etc.
- Material options include Carbon Steel, Stainless Steel, Alloy Steel, Etc.

SLAB GATE VALVE

API 6A High Pressure Slab Gate Valve

REF **EFC-443** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | NPS 1 to NPS 42 |
| Pressure | Class 150 to Class 2500 |
| End connection | flanged (ASME B16.34) / flanged (ASME B16.47) / butt weld (ASME B16.25) |
| Face-to-face | ASME B16.10 |
| Temperature | -46°C to 121°C |
| Media | crude oil, natural gas, chemical fluids |

ACTUATION

- manual
- gearbox
- pneumatic
- electric

STANDARDS

| | |
|--------|---|
| Design | API 6A, API 600, GB/T 22513, NACE MR0175 |
| Test | API 598 |

COATINGS & LINING

- Surface hardening treatment on valve body and internal components

APPLICATIONS

- Oil fields
- Crude oil and natural gas extraction
- Wellhead equipment
- Long-distance pipelines
- Refining and chemical plants
- High-pressure fluid control systems



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon Steel, Stainless Steel, Alloy Steel**

FEATURES

- Maximum working pressure Class 900 (PN150) per marketing text; pressure range stated elsewhere as Class 150-2500
- Bidirectional sealing via precisely ground gate plates and valve seats
- Full-diameter bore structure for low flow resistance and minimal pressure drop
- Alloy steel body and internals with surface hardening for corrosion and wear resistance
- Self-lubricating valve seats to reduce wear and extend maintenance intervals
- Flat gate plate design enabling two-way sealing
- Fire-safe design per API 6A

OPTIONS & NOTES

- Maximum working pressure stated in Features section as Class 900 (PN150), but Technical Specification and General Information indicate pressure range up to Class 2500 — verify applicable pressure ratings with supplier.

SLAB GATE VALVE

Single Wedge Slab Gate Valve

REF **EFC-444** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | NPS 2" to NPS 60" |
| Pressure | Class 150 to Class 2500 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.47) / flanged (EN 1092) / butt weld (ASME B16.25) / butt weld (GB/T 12224) |
| Face-to-face | ASME B16.10, GB/T 12221, EN 558 |
| Temperature | -60°C to 538°C |
| Media | tap water, sewage, petroleum, chemical fluids, abrasive fluids, food-grade media |

ACTUATION

- manual
- pneumatic
- electric

STANDARDS

| | |
|--------|--|
| Design | ASME B16.34, GB/T 12234 |
| Test | API 598, API 6D, GB/T 13927, JB/T 9092, GOST 9544 |

APPLICATIONS

- Oil and gas pipelines
- Chemical industry
- Water supply
- Mining
- ESDV/BDV applications
- Pig trap installations



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon Steel, Stainless Steel, Alloy Steel**

FEATURES

- Full bore through-conduit port - negligible pressure drop in open position
- Rising stem OS&Y design
- Floating seats and gate, pressure energised
- Bubble-tight shut-off upstream and downstream under low and high differential pressure
- Double block and bleed capability
- Automatic relief of excess body cavity pressure
- Seat faces located outside the flow stream, protected from erosive flow
- Pig and scraper compatible - no valve damage during pigging
- Self-relieving seat design
- Equalised bore option available
- Reverse-acting and equalised bore option for fail-closed operation
- Double upstream seal by piston effect; downstream seal with floating obturator
- Fire-safe construction
- Full in-line maintainability
- Flexible actuation with or without stem ejection assistance
- Suitable for ESDV/BDV applications

OPTIONS & NOTES

- Equalised bore available as required/operated
- Operator options include Manual, Pneumatic, Electric, etc.

PLUG VALVE

Lifting Plug Valve

REF **EFC-508** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN25 to DN900 |
| Pressure | PN10 / Class 150 to PN420 / Class 2500 |
| End connection | flanged (ASME B16.34 / ASME B16.47 / GB/T 9113) / butt weld (ASME B16.25 / GB/T 12224) |
| Face-to-face | ASME B16.10, GB/T 12221 |
| Temperature | -46°C to 550°C |
| Media | High-pressure differential fluids, Crystallising media, Media containing solid particles, Catalyst transport slurries, Coal chemical process streams |

ACTUATION

- manual
- pneumatic
- electric

STANDARDS

| | |
|--------|-----------------------------|
| Design | API 599, GB/T 22130, API 6D |
| Test | API 598, GB/T 13927 |

APPLICATIONS

- Petroleum industry
- Chemical industry
- Pharmaceutical industry
- Fertiliser industry
- Power generation
- Catalyst transportation
- Coal chemical industry

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

EFC-508 · Specifications confirmed at quote

sales@euroflowcontrol.com · euroflowcontrol.com



MATERIALS

| | | | |
|------------|---|------|---|
| Valve body | Carbon Steel, Stainless Steel, Alloy Steel | Plug | Carbon Steel, Stainless Steel, Alloy Steel |
|------------|---|------|---|

FEATURES

- Dual-action lift-then-rotate mechanism eliminates sealing surface friction during open/close cycle
- Hydraulic balancing technology reduces operating torque
- Hardened metal sealing surfaces rated to 425 °C
- Self-cleaning sealing surface design
- Valve body and plug are precisely ground
- Integral forged valve body construction
- Fire-safe design per API 607 / API 6Fa
- Pressure rating achievable up to Class 2500
- Suitable for solid particle media including catalyst and coal chemical service

OPTIONS & NOTES

- Operator options listed as 'Manual, Pneumatic, Electric, etc.' — additional types available on enquiry
- Main materials listed as 'Carbon Steel, Stainless Steel, Alloy Steel, Etc' — further material options available on enquiry

PLUG VALVE

DBB Plug Valve

REF **EFC-509** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | NPS 2" to NPS 24" |
| Pressure | Class 150 / PN10 to Class 2500 / PN420 |
| End connection | flanged (ASME B16.5 / ASME B16.47 / GB/T 9113 / JB/T 79 / HG/T 20592 / EN 1092) / butt weld (ASME B16.25 / GB/T 12224) |
| Face-to-face | ASME B16.10, GB/T 12221, EN 558 |
| Temperature | -46°C to 200°C |
| Media | petroleum, chemical media, corrosive media, pharmaceutical media, fertiliser process media, power generation fluids |



ACTUATION

- manual
- pneumatic
- electric

STANDARDS

| | |
|--------|--|
| Design | API 6D, API 599, ASME B16.34, GB/T 12224, GB/T 20173, GB/T 19672 |
| Test | API 598, GB/T 13927 |

APPLICATIONS

- Oil and gas pipelines
- Chemical industry
- Power generation
- Long-distance pipelines
- Pharmaceutical industry
- Fertiliser industry

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon Steel, Stainless Steel, Alloy Steel**

FEATURES

- Rising stem with guide groove
- Track-guided technology for low-torque opening and closing
- Double Block and Bleed (DBB) function
- Zero-leakage sealing
- No contact friction between sealing surfaces during switching
- Bolted or pressure-seal bonnet options
- Fire-safe design per API 607
- Anti-static design
- Optional bypass balanced pressure design for reduced operating torque

OPTIONS & NOTES

- Operator options listed as 'Manual, Pneumatic, Electric, etc...' — additional actuator types available on request

PLUG VALVE

Sleeve Plug Valve

REF **EFC-510** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN50 to DN600 |
| Pressure | Class 150 to Class 2500 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.47) / flanged (GB/T 9113) / flanged (JB/T 79) / flanged (HG/T 20592) / flanged (EN 1092) / flanged (GOST 33259) / butt weld (ASME B16.25) / butt weld (GB/T 12224) |
| Face-to-face | ASME B16.10, GB/T 12221, EN 558 |
| Temperature | -46°C to 180°C |
| Media | petroleum, chemical, pharmaceutical, fertiliser, power industry fluids, viscous media, scaling media, low-temperature fluids |



ACTUATION

- manual
- pneumatic
- electric

STANDARDS

| | |
|--------|--|
| Design | API 6D, API 599, ASME B16.34 |
| Test | API 598, API 6D, GB/T 13927, JB/T 9092, GOST 9544 |

APPLICATIONS

- Oil and gas storage and transportation
- Chemical industry
- Metallurgy
- Paper making
- Food processing
- Pharmaceutical

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

- Fertiliser
- Power industry

MATERIALS

Body **Carbon Steel, Stainless Steel, Alloy Steel**

FEATURES

- Sleeve connection between plug and valve body
- No cavity to accumulate medium
- Metal lip with self-cleaning function
- Suitable for viscous and scaling media
- Two-way flow capability
- Quick opening and closing
- Low flow resistance
- Compatible with pneumatic and electric actuators for remote operation
- Pressure rating: PN 10-250 / Class 150-2500

PLUG VALVE

Pressure Balanced Plug Valve

REF **EFC-511** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN50 to DN600 |
| Pressure | 150 to 2500 |
| End connection | flanged (ASME B16.5) / flanged (GB/T 9113) / flanged (JB/T 79) / flanged (HG/T 20592) / butt weld (ASME B16.5 / GB/T 12224) |
| Face-to-face | ASME B16.10, GB/T 12221 |
| Temperature | -29°C to 180°C |

ACTUATION

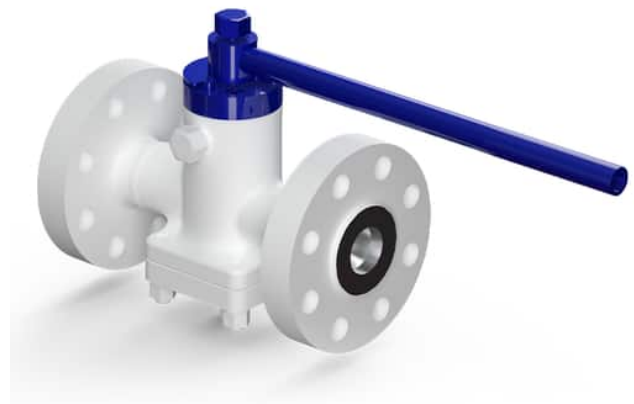
- Manual
- Pneumatic
- Electric

STANDARDS

| | |
|--------|------------------------------------|
| Design | API 599, API 6D, GB/T 12224 |
| Test | API 598, GB/T 13927 |

APPLICATIONS

- Petroleum industry pipeline isolation
- Chemical industry pipeline isolation
- Pharmaceutical industry pipeline isolation
- Fertiliser industry pipeline isolation
- Power industry pipeline isolation



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon Steel, Stainless Steel, Alloy Steel**

FEATURES

- Oil groove between valve body and sealing surface allows sealing grease injection into valve seat via oil nozzle at any time
- Inverted pressure-balanced structure
- Light switching action
- Reliable sealing performance
- Part materials and flange dimensions selectable to suit working conditions or user requirements
- Fire-safe design to API 607

OPTIONS & NOTES

- Operator: Manual, Pneumatic, Electric, etc...
- Material of parts and flange size can be reasonably selected according to actual working conditions or user requirements

PRESSURE REDUCING VALVE

Ductile Iron Pressure Reducing Valve

REF **EFC-272** ISSUED **08 Jul 2026**

SPECIFICATIONS

| | |
|----------------|---|
| Pressure | PN16 |
| End connection | flanged (DIN, BS, UNI, ISO, ANSI, AS, JIS) |
| Temperature | null°C to null°C |
| Media | Water |

APPLICATIONS

- HVAC
- Water Supply & Sewage
- Food & Beverage
- Chemical/Petrochemical Processing
- Power and Utilities
- Paper and Pulp
- Ship Building
- Municipal water supply networks
- Building service systems
- Irrigation
- Industrial water distribution
- Above-ground installations
- Underground chambers



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

EFC-272 · Specifications confirmed at quote

sales@euroflowcontrol.com · euroflowcontrol.com

MATERIALS

| | | | |
|--------------|-------------------------------|------------|-------------------------------|
| Body | Ductile Iron (DI) | Bonnet | Ductile Iron (DI) |
| Seat | Brass | Platen | Carbon Steel |
| Seal | EPDM | Disc | Ductile Iron (DI) |
| Diaphragm | EPDM | Nut | Stainless Steel |
| Stem | Stainless Steel | Spring | Stainless Steel |
| Eye bolt | Carbon Steel | Bolts | Stainless Steel |
| Needle valve | Brass, Stainless Steel | Ball valve | Brass, Stainless Steel |
| Float valve | Stainless Steel | | |

FEATURES

- Diaphragm-controlled pressure regulation mechanism
- Automatic adjustment to upstream pressure fluctuations for consistent outlet pressure
- Ductile iron body and bonnet construction
- EPDM sealing components and diaphragm
- Stainless steel stem and internal fasteners
- Brass seat for sealing performance
- Protects pipelines and equipment from pressure surges
- Nominal pressure PN16 (200 PSI)
- Shell test pressure 2.4 MPa
- Seal test pressure 1.76 MPa

OPTIONS & NOTES

- Dimensions table referenced in HTML but no data populated ('Dimensions:(mm)' heading present with no table content)

PRESSURE REDUCING VALVE

ACV Ratio Reducing Valve

REF **EFC-408** ISSUED **08 Jul 2026**

SPECIFICATIONS

| | |
|----------------|--|
| Size | 15mm to 300mm |
| Pressure | PN16 to PN100 |
| End connection | screwed / flanged (drilled to customer requirement) |
| Media | Cold water |

APPLICATIONS

- Trunk main pressure management
- Variable inlet pressure systems
- District metered areas
- Pressure zone management

FEATURES

- The ACV ratio reducing valve maintains a fixed ratio between upstream and downstream pressure: as inlet pressure varies, the outlet pressure varies proportionally
- This is particularly useful on systems where demand patterns cause large upstream pressure fluctuations, as it avoids the very low outlet pressures that a fixed-set-point PRV would deliver at low inlet pressures
- Fully hydraulic, no external power required

OPTIONS & NOTES

- * L dimension given is for 16bar valves. For higher pressures L is longer by the increased flange thickness.

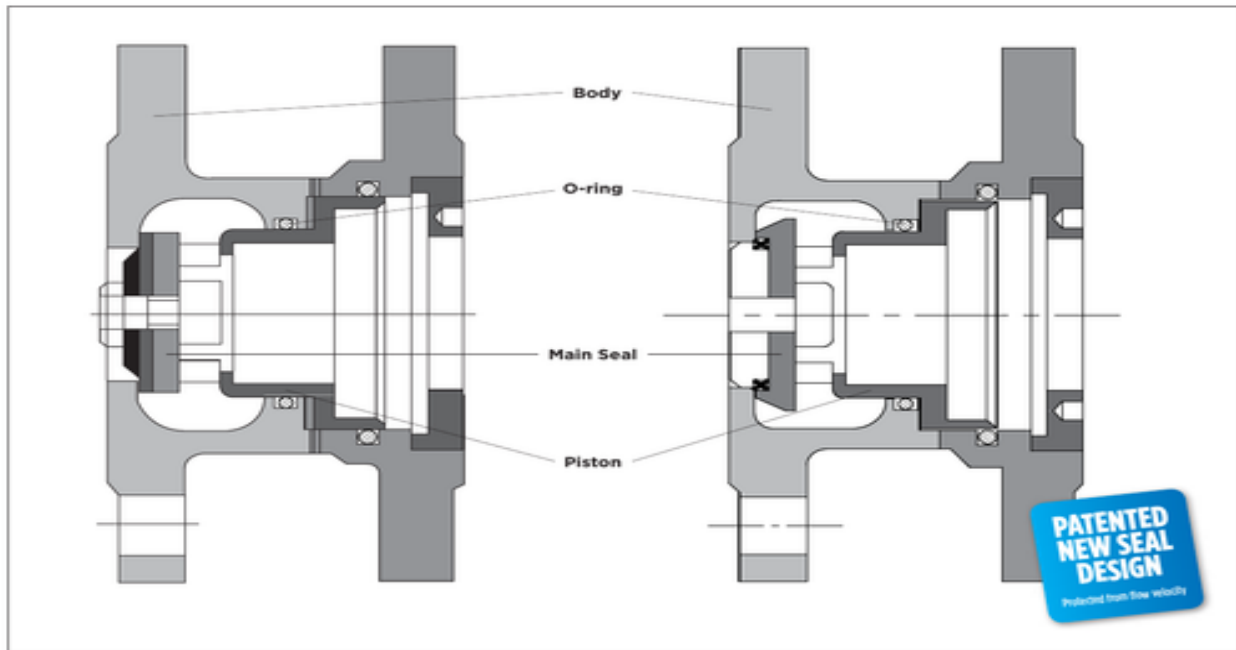


Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

PRESSURE REDUCING VALVE

ACV Ratio Reducing Valve

SECTION Technical drawing 1 of 2 REF EFC-408



BENEFITS

Hydraulics Simplified

Because the Ratio Pressure Reducing Valve (RPRV) is of an inline Axial flow design, it has all the benefits of

- High Cavitation resistance (5:1 ratios available)
- Fast response – almost instantaneous response to demand changes
- High range-ability and can control down to very low flow rates

Due to these features the Ultra RPRV can operate in series with other control valves without experiencing instability, and also would not require bypass PRV's to cater for low flow periods. Sizing and application Engineering thus becomes simplified. If in doubt just install a line size RPRV in any position where pressure needs to be reduced without doing complicated sizing.

Fast and Easy installation

The RPRV has a compact design, which makes it ideal for tight spaces such as fire installations and plumbing in High Rise buildings. They can be installed in any orientation.

Complete security

- **Fixed Ratio.** No need for adjustments or calibration – the valve settings are fixed and cannot change with time.

- **Simple sealing action.** Because the valve relies on only one moving part, it means high reliability and shutoff when required. There are no internal ports, which can become blocked, or springs that can become corroded or damaged.
- **Maintained Pressure.** Under no-flow conditions the downstream pressure is maintained because the valve will remain closed and will not open until the downstream pressure drops.
- **Ease of maintenance.** Can be handled by one person. This valve generally only needs servicing once every 3 to 5 years. Service kits include standard seals and O-rings, which are readily available.
- **Tamper proof.** There are no external regulators or pilot tubes, which can be tampered with.
- **Leakages** from Control tubing which is always a problem in buildings is eliminated
- No need to bleed air from control chamber.

High Performance

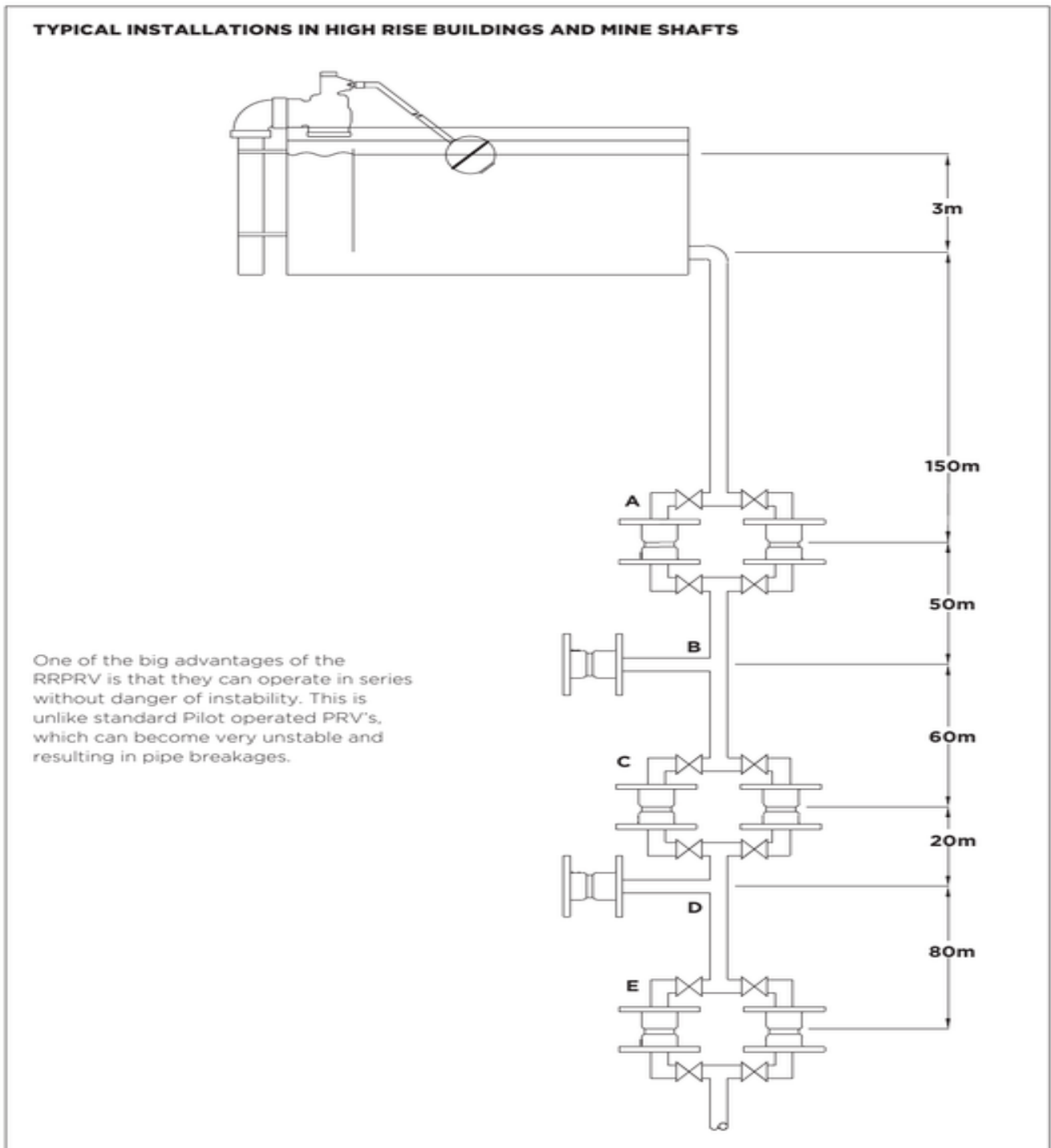
One moving part and only 2 O-ring seals and 1 main seal results in many years of trouble free operation without maintenance required. *Truly a Valve for African Conditions.*

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

PRESSURE REDUCING VALVE

ACV Ratio Reducing Valve

SECTION Technical drawing 2 of 2 REF EFC-408



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

PRESSURE REDUCING VALVE

ACV Ratio Reducing Valve

SECTION Dimensions per size REF EFC-408

| SIZE | L |
|-------|-----|
| 50mm | 80 |
| 80mm | 110 |
| 100mm | 120 |
| 150mm | 160 |
| 200mm | 200 |
| 250mm | 250 |
| 300mm | 300 |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

EFC-408 · Specifications confirmed at quote

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ACCESSORY

P500 Relief Sustaining Pilot

REF **EFC-397** ISSUED 08 Jul 2026

SPECIFICATIONS

APPLICATIONS

- Pressure sustaining
- Pressure relief
- Pump station outlet control



FEATURES

- The P500 sensing pilot is used on A500 main valves for pressure sustaining and pressure relief duties
- When upstream pressure drops below the set point, the pilot closes the main valve to sustain upstream pressure
- When upstream pressure exceeds the relief set point, the pilot opens to vent excess pressure

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

ACCESSORY

Alpine Orifice Plate

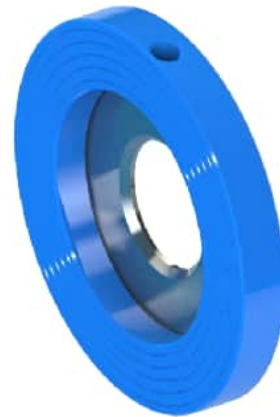
REF **EFC-403** ISSUED **08 Jul 2026**

SPECIFICATIONS

| | |
|----------------|----------------------|
| Size | DN50 to DN400 |
| Pressure | PN10 to PN16 |
| End connection | flanged |

APPLICATIONS

- Flow measurement
- Control valve pilot sensing
- Differential pressure metering



FEATURES

- The Alpine orifice plate is a precision-bored flanged plate installed between standard flanges to create a measured differential pressure for flow calculation
- Used upstream of P400 flow control pilots and P20A differential pressure pilots to provide the sensing signal
- Supplied with tapping connections for pilot or transmitter connection
- Available in ductile iron and stainless steel for a range of pipe sizes and flow rates

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CRYOGENIC BALL VALVE

Side Entry Cryogenic Floating Ball Valve

REF **EFC-483** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|-------------|--|
| Size | DN15 to DN200 |
| Pressure | Class 150 to PN50 |
| Temperature | -196°C to 150°C |
| Media | LNG, LPG, Liquid nitrogen, Liquid oxygen, Natural gas, Oil, Gas |

ACTUATION

- Manual
- Pneumatic
- Electric

STANDARDS

Design **API 6D, BS 6364, ISO 28921**

APPLICATIONS

- Liquefied natural gas (LNG) storage and transportation
- Air separation equipment
- Chemical industry
- Energy sector
- Long-distance oil and gas pipelines



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Stainless Steel, Alloy Steel**

FEATURES

- Side-mounted body structure eliminates need to dismantle pipeline during maintenance
- Combined metal hard seal and soft seal providing bi-directional zero leakage
- Elongated valve stem with low-temperature insulation to reduce heat conduction and prevent external frosting
- Deep cold treatment technology applied to ensure reliable sealing at cryogenic temperatures
- Optimised body structure reduces weight whilst maintaining pressure-bearing capacity
- Compliant with API 6D, BS 6364, and ISO 28921

OPTIONS & NOTES

- Operator options listed as: Manual, Pneumatic, Electric, etc...
- Technical Specification available as download (content not provided on page)

CRYOGENIC BALL VALVE

Side Entry Cryogenic Trunnion Mounted Ball Valve

REF **EFC-485** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | NPS 1/2" to NPS 24" |
| Pressure | Class 150 to Class 2500 |
| End connection | flanged |
| Temperature | -196°C to 150°C |
| Media | LNG, LPG, Natural gas, Oil, Gas, Explosive medium |

ACTUATION

- manual
- pneumatic
- electric

STANDARDS

| | |
|------|----------------|
| Test | API 624 |
|------|----------------|

APPLICATIONS

- LNG service
- LPG service
- Low-temperature cryogenic pipelines
- Long-distance oil and gas pipelines
- Natural gas pipelines



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|------|-------------------------------------|--------------|---------------------------|
| Body | Stainless Steel, Alloy Steel | Stem packing | Graphite, Lip-seal |
|------|-------------------------------------|--------------|---------------------------|

FEATURES

- Extended bonnet design to ensure reliability of stem packing and sealing
- Drainage board design to prevent condensation water ingress
- Anti-static design
- Fire-safe design
- Cavity automatic self-pressure relief, suitable for explosive media
- Live-load API 622 certified graphite and lip-seal sealing for API 624 fugitive emission compliance
- Operating temperature as low as -196 °C
- Multiple seat design options for various media and conditions
- Top entry or side entry optional design
- Nominal size range DN 15-600 (NPS 1/2" - 24")
- Pressure rating PN 10-420 / Class 150-2500

OPTIONS & NOTES

- Top Entry or Side Entry optional design
- Multiple Seat Design option available
- Operator options include Manual, Pneumatic, Electric, etc.

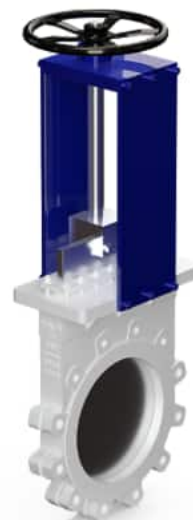
KNIFE GATE VALVE

Short Pattern Slab Gate Valve

REF **EFC-441** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | DN50 to DN900 |
| Pressure | PN3 to PN50 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.47) / flanged (MSS SP-81) / butt weld (ASME B16.25) / clamp |
| Face-to-face | ASME B16.10, GB/T 12221, MSS SP-81 |
| Temperature | -46°C to 200°C |
| Media | mud, pulp, urban sewage, sugar factory effluent, powder, paper industry media, pharmaceutical media, chemical industry media |



ACTUATION

- Handwheel
- Umbrella Wheel
- Gearbox
- Electric actuator
- Pneumatic actuator
- Hydraulic actuator
- Electro-hydraulic actuator
- Chain wheel

STANDARDS

| | |
|--------|-----------------------------|
| Design | MSS SP-81, JB/T 8691 |
| Test | MSS SP-81, API 598 |

APPLICATIONS

- Mud and slurry handling
- Pulp processing
- Urban sewage treatment
- Sugar factory processes

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

- Powder handling
- Paper industry
- Pharmaceutical industry
- Chemical industry

MATERIALS

Body **Carbon steel, Low-temperature carbon steel, Stainless steel, Duplex steel**

FEATURES

- Short-pattern structure reduces valve weight and eliminates need for pipe support frames
- Gate self-scrapes attached media during opening and closing, aiding sealing
- Knife gate profile cuts through media, suitable for slurry and slagging applications
- Clamp connection with wedge limit provides sealing force and reliable seal
- Wear-resistant bushings available in different materials to extend service life
- Combined packing sealing system for improved sealing performance
- Multiple actuation options: electric, gearbox, pneumatic, hydraulic

OPTIONS & NOTES

- Wear-resistant bushings of different materials can be provided according to requirements

FORGED STEEL GATE VALVE

Forged Steel Gate Valve

REF **EFC-478** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 1 to NPS 3" |
| Pressure | CL150 / PN10 to CL2500 / PN420 |
| End connection | socket-welding (ASME B16.11) / threaded (ASME B1.20.1) / flanged (ASME B16.5) / butt-welding (ASME B16.25) |
| Face-to-face | ASME B16.10, GB/T 12221 |
| Temperature | -196°C to 600°C |
| Media | tap water, sewage, petroleum, chemical media, food, medicine, textile process fluids, energy system fluids |

ACTUATION

- manual

STANDARDS

| | |
|--------|----------------------------------|
| Design | API 602, BS 5352 |
| Test | API 602, API 598, BS 5146 |

APPLICATIONS

- tap water
- sewage
- construction
- petroleum
- chemical industry
- food
- medicine
- textile
- electricity
- metallurgy
- energy systems
- oil & gas



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

- power

MATERIALS

| | | | |
|---------|---|-----------------|--|
| Body | carbon steel, stainless steel, alloy steel | Sealing surface | alloy steel, hard alloy |
| Packing | flexible graphite | Bonnet gasket | stainless steel wire with flexible graphite |

FEATURES

- Main components are forged.
- Three bonnet seal types available: bolted bonnet (with wound gasket), welded bonnet (threaded and fully welded), and pressure self-tightening seal structure.
- Bolted bonnet sealed with wound gasket (stainless steel wire with flexible graphite); metal ring connection available on request.
- Welded bonnet uses threaded connection with full weld; fully welded connection available on request.
- CL900, CL1500, and CL2500 middle cavity uses pressure self-tightening seal-sealing performance increases with internal pressure.
- Smooth flow channel with low flow coefficient.
- Sealing surface less susceptible to erosion from media.
- Sealing surface made of alloy steel or hard alloy for wear and abrasion resistance.
- Flexible graphite packing for reliable sealing and light operation.
- Bidirectional flow with no disturbance or pressure reduction.
- Packing can be replaced and maintained during online shutdown without affecting system operation.
- Simple geometry, short face-to-face length, wide application range.

OPTIONS & NOTES

- Metal ring connection can be used when customers have special requirements.
- Fully welded bonnet connection can also be used when customers have special requirements.
- The length of the riveted structure at the threaded end of the socket-welding connection shall comply with the factory standards.

LIFT CHECK VALVE

Forged Steel Lift Check Valve

REF **EFC-479** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|---|
| Size | NPS 1/4" (DN6) to NPS 3" (DN80) |
| Pressure | CL150 (PN10) to CL2500 (PN420) |
| End connection | socket weld (ASME B16.11) / threaded (ASME B1.20.1) / flanged (ASME B16.5) / butt weld (ASME B16.25) |
| Face-to-face | ASME B16.10, GB/T 12221 |
| Temperature | -196°C to 600°C |
| Media | tap water, sewage, petroleum, chemical media, natural gas, food products, pharmaceuticals, textiles process fluids, power generation fluids, metallurgical process fluids, energy system fluids |



ACTUATION

- manual

STANDARDS

| | |
|--------|---------------------------|
| Design | API 602, BS 5352 |
| Test | API 602, API 598, BS 5146 |

APPLICATIONS

- Oil & gas
- Chemical industry
- Natural gas
- Power generation
- Metallurgy
- Papermaking
- Pharmaceuticals
- Water supply
- Construction pipelines

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|------------------|--|--------|---|
| Body | carbon steel, stainless steel, alloy steel | Bonnet | carbon steel, stainless steel, alloy steel |
| Sealing surfaces | alloy steel (butt welded), hard alloy (butt welded) | | |

FEATURES

- Compact overall structure with small external dimensions and low weight, saving pipeline installation space
- Body and bonnet formed by forging, providing higher plasticity, toughness, and mechanical strength than cast steel equivalents
- Sealing surfaces of disc and seat made from alloy steel or hard alloy butt welding; heat-resistant, corrosion-resistant, and wear-resistant
- Disc opens under downstream media thrust and closes automatically under gravity and back-pressure; action described as sensitive and rapid
- Wide nominal pressure range: CL150 to CL2500 (PN10 to PN420)
- Wide working temperature range: -196 °C to +600 °C
- Multiple end connection options: socket weld, threaded, flanged, butt weld

OPTIONS & NOTES

- The length of the riveted structure at the threaded end of the socket-welding connection shall comply with the factory standards.

CRYOGENIC CHECK VALVE

Cryogenic Lifting Check Valve

REF **EFC-488** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|-------------|---|
| Size | NPS 1 to NPS 24 |
| Pressure | Class 150 / PN10 to Class 2500 / PN420 |
| Temperature | -196°C to 150°C |
| Media | LNG, LPG, Liquid oxygen, Natural gas, Oil, Gas |

ACTUATION

- Self-acting (automatic via pressure differential)
- Manual
- Pneumatic
- Electric

STANDARDS

| | |
|--------|------------------------|
| Design | BS 6364, API 6D |
|--------|------------------------|

APPLICATIONS

- LNG storage and transportation
- Air separation equipment
- Petrochemical industry
- Long-distance oil and gas pipelines
- Cryogenic chemical systems



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|------|------------------------|-----------------|---------------------------|
| Body | Stainless Steel | Sealing surface | Cobalt-based alloy |
|------|------------------------|-----------------|---------------------------|

FEATURES

- Vertical lifting disc structure; disc slides along body vertical centreline
- Automatic open/close based on medium pressure differential; no external power required
- Cobalt-based alloy sealing surface for reliable sealing under cryogenic conditions
- Compact structure suitable for horizontal pipeline installation
- Maintains flexible operation at temperatures as low as -196 °C
- Can be equipped with safety valves and leakage valves
- Supports manual, pneumatic, or electric operation in addition to self-acting mode

OPTIONS & NOTES

- Sizes marked with * (NPS 1/2*, NPS 24*) — exact scope of asterisk notation not explained on page
- Technical Specification available as download (content not disclosed on page)
- Operator options listed as 'Manual, Pneumatic, Electric, etc...' — further variants on request

STOP CHECK VALVE

Stop Check Valve

REF **EFC-504** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN50 to DN600 |
| Pressure | PN10 / Class 150 to PN420 / Class 420 |
| End connection | flanged (ASME B16.5) / flanged (GB/T 9113) / butt weld (ASME B16.25 / GB/T 12224) |
| Face-to-face | ASME B16.10, GB/T 12221 |
| Temperature | -60°C to 538°C |
| Media | Petroleum, Chemical, Pharmaceutical, Fertiliser, Power industry fluids, Low-temperature media |

STANDARDS

| | |
|--------|---|
| Design | API 6D, API 602, ASME B16.34, GB/T 12235 |
| Test | API 598, GB/T 13927 |

APPLICATIONS

- Petroleum pipelines
- Chemical pipelines
- Pharmaceutical pipelines
- Fertiliser industry pipelines
- Power industry pipelines
- Low-temperature pipelines
- Pump outlet lines requiring combined stop and check function



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|------|---|-------------------------------|--|
| Body | Carbon Steel, Stainless Steel, Alloy Steel | Disc and seat sealing surface | Iron base alloy (surfacing), Stellite cobalt base carbide (surfacing) |
|------|---|-------------------------------|--|

FEATURES

- Dual function: operates as a stop valve when stem is lowered and as a check valve when stem is raised
- Stem and disc are not mechanically fixed, enabling independent check valve action
- Disc and seat sealing surfaces are hard-faced with iron base alloy or Stellite cobalt base carbide
- Sealing surface provides wear resistance, high-temperature resistance, corrosion resistance, and extended service life
- Lower disc-to-seat friction compared to gate valve, improving wear resistance
- Reduces installation cost and space on lines requiring both stop and check functions
- Size range NPS 2" - 24" (DN50-DN600)
- Pressure rating Class 150-420 / PN10-420
- Temperature range -60 °C to +538 °C

BLIND VALVE

Blind Valve

REF **EFC-506** ISSUED **08 Jul 2026**

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN100 to DN3600 |
| Pressure | PN6 |
| End connection | flanged (ASME B16.5) / flanged (GB/T 9113) / flanged (HG/T 20592) |
| Face-to-face | ASME B16.10, GB/T 24917, GB/T 12221 |
| Temperature | 0°C to 350°C |
| Media | petroleum, chemicals, water, oil, gas, natural gas |

ACTUATION

- manual handwheel
- pneumatic
- electric

STANDARDS

| | |
|--------|--|
| Design | API 600, GB/T 12234, GB/T 24917 |
| Test | API 598, GB/T 13927, GB/T 24917 |

APPLICATIONS

- Petroleum industry
- Chemical industry
- Metallurgy
- Light industry
- Power stations
- Urban water supply
- Low-temperature working conditions
- Long-distance oil pipelines
- Long-distance gas pipelines
- Long-distance natural gas pipelines



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body **Carbon Steel, Stainless Steel, Alloy Steel**

FEATURES

- Blind plate slides along a track to the centre of the pipe to isolate flow
- Flow isolation on large pipes achievable in 30 seconds to 2 minutes
- Operation requires only a handwheel; no special tools required
- No heavy lifting equipment or manual bolt handling required
- Stable and reliable sealing performance across varying operating conditions
- Simple, durable structure facilitates straightforward maintenance

OPTIONS & NOTES

- Operator options listed as: Manual, Pneumatic, Electric, etc.

DOUBLE DISC GATE VALVE

Double Disc Gate Valve-Ethylene

REF **EFC-512** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | NPS 6" to NPS 60" |
| Pressure | Class 150 / PN100 to Class 2500 / PN420 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.47) / flanged (GB/T 9113) / flanged (JB/T 79) / flanged (HG/T 20592) / flanged (EN 1092) / flanged (GOST 33259) / butt weld (ASME B16.25 / GB/T 12224) |
| Face-to-face | ASME B16.5, ASME B16.47, GB/T 9113, JB/T 79, HG/T 20592, EN 1092, GOST 33259 |
| Temperature | -60°C to 538°C |
| Media | cracked gas, tap water, sewage, petroleum, chemical media, food media |



ACTUATION

- manual
- electric — Fully enclosed, weather-resistant actuator

STANDARDS

| | |
|--------|--|
| Design | ASME B16.34, GB/T 12234 |
| Test | API 598, API 6D, GB/T 13927, JB/T 9092, GOST 9544 |

APPLICATIONS

- Petrochemical industry – cracked gas handling
- Oil and gas
- Chemical processing
- Water supply and sewage
- Construction
- Food industry

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

| | | | |
|------|---|-----------|-------------|
| Body | Carbon Steel, Stainless Steel, Alloy Steel | Seat seal | PTFE |
|------|---|-----------|-------------|

FEATURES

- Floating seat with O-ring seals for bidirectional sealing at approximately half the standard operating torque
- Dual PTFE and metal sealing: PTFE-to-metal and metal-to-metal seat sealing with debris-cleaning capability
- Grease injection port at seat enabling zero-leakage sealing
- Flow guiding holes in gate to protect sealing surfaces from media erosion
- Straight, smooth full-bore channel when fully open for low flow resistance and pipeline pigging capability
- Self-sealing packing structure with auxiliary grease injection for near-zero packing leakage
- Self-relieving seat that automatically releases trapped cavity pressure when valve is closed
- Fully enclosed, weather-resistant actuator suitable for all ambient conditions
- Open/closed position indicator
- Dual soft seal structure with multiple sealing rings
- Automatic self-cleaning mechanism removes deposits during operation

OPTIONS & NOTES

- Operator options listed as 'Manual, Electric, etc...' — additional actuator types available on enquiry

AXIAL FLOW CHECK VALVE

Axial Flow Check Valve

REF **EFC-518** ISSUED 08 Jul 2026

SPECIFICATIONS

| | |
|----------------|--|
| Size | DN50 to DN600 |
| Pressure | PN10 / Class 150 to PN420 / Class 420 |
| End connection | flanged (ASME B16.5) / flanged (ASME B16.47) / flanged (GB/T 9113) / flanged (JB/T 79) / flanged (HG/T 20592) / flanged (EN 1092) / flanged (GOST 33259) / butt weld (ASME B16.25) / butt weld (GB/T 12224) |
| Face-to-face | ASME B16.10, GB/T 12221, EN 558 |
| Temperature | -60°C to 538°C |
| Media | Petroleum, Chemical media, Pharmaceutical media, Fertiliser process media, Power industry media, Cryogenic fluids |

ACTUATION

- spring — Spring-driven spool for quick opening and closing
- fluid pressure — Fluid-pressure-driven spool for quick opening and closing

STANDARDS

| | |
|--------|---|
| Design | API 6D, API 602, ASME B16.34, GB/T 12235, GB/T 21387 |
| Test | API 598, API 6D, GB/T 13927, JB/T 9092, GOST 9544 |

APPLICATIONS

- Oil and gas pipelines
- Chemical industry pipelines
- Pharmaceutical industry pipelines
- Fertiliser industry pipelines
- Power industry pipelines
- Low-temperature (cryogenic) service pipelines

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.



MATERIALS

| | | | |
|------|---|-----------------|-------------------|
| Body | Carbon Steel, Stainless Steel, Alloy Steel | Sealing surface | Hard Alloy |
|------|---|-----------------|-------------------|

FEATURES

- One-piece wing-type streamlined flow channel
- Low fluid resistance due to axial flow design
- Hard alloy sealing surface
- Flexible disc design
- Quick closing with small closing impact force
- Spool aligned with flow direction
- Actuated by spring or fluid pressure

REFERENCE

Standards, certification & terms

OUR RANGE

This catalogue shows a representative selection of the range. Valves are configurable: size, pressure rating, materials and end connections can be specified to your project. Items not shown can be supplied to specification on request.

STANDARDS & CERTIFICATION

Products are manufactured to the standards listed against each item. Material and test certificates (EN 10204 3.1), and approvals such as PED, ATEX, fire-safe (API 607 / 6FA) or marine classification, are available on request and confirmed per order. Certification is provided to project requirements.

TERMS

Specifications shown are indicative and confirmed at quotation. Dimensions, materials and ratings are subject to confirmation against the supplier datasheet for the configured item, and subject to change without notice. This catalogue does not constitute an offer.

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NEXT STEP

How to enquire

Submit your requirement in whichever format is convenient. Each enquiry is reviewed and answered with a quotation.

1 Submit a specification or parts list

Email a specification, drawing or line list (PDF, Word or Excel); each line is matched to the range.

2 Describe your requirement

Provide the duty, size, pressure and material, together with any supporting documents.

3 Enquire online

Submit a request at euroflowcontrol.com.

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We acknowledge every enquiry within one business day.