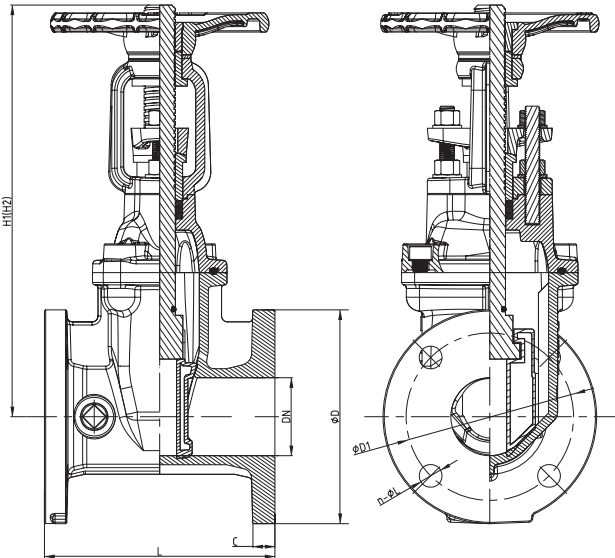




Control Valves & Devices | Gate Valves & Indicator Posts | OS&Y Gate Valve | Flanged | OSF



| SPECIFICATIONS | |
|---------------------------|---|
| Approvals | |
| Sizes available (nominal) | 2"/DN50, 2-1/2"/DN65, 3"/DN80, 4"/DN100, 5"/DN125, 6"/DN150, 8"/DN200, 10"/DN250, 12"/DN300, 14"/DN350, 16"/DN400, 18"/DN450, 20"/DN500 & 24"/DN600 |
| Working pressure | 2"-12" @ 300 psi (21 bar); 14"-24" @ 250 psi (17 bar) |
| Seat type | Resilient wedge |
| Finish | Fusion bonded epoxy coated internal & external |
| Material (body) | Ductile iron |
| Connections | Flange diameter and thickness according to ANSI B16.1 Class 125, EN1092-2 PN10 or EN1092-2 PN16 |
| Specifications | Design and dimensions conform to AWWA C515 |
| Features | Pre-notched, stainless steel stem for easy attachment of supervisory switch |
| Note | Size 5" is only UL listed. Sizes 14" to 24" UL Listed and FM Approved as OSF2 (ANSI) or OSF3 (PN) |

Physical data | OSF

| Reference* | | | Nominal Pipe Size | | Dimensions (mm) | | | | | | | | | | Weight (kg) | |
|------------|--------------|--------------|-------------------|--------|-----------------|-------------|-----------|-----|------|-------|------|---------|----------|--------|-------------|-------|
| ANSI | PN10 | PN16 | inch | Metric | L | H1 (Closed) | H2 (Open) | D | C | D1 | | | n-ØL | | | |
| | | | | | | | | | | ANSI | PN16 | PN10 | ANSI | PN16 | PN10 | |
| OSF-0200 | OSF-0200PN | | 2 | DN50 | 178 | 348 | 400 | 152 | 16.0 | 120.7 | 125 | | 4-Ø19.1 | | | 14.7 |
| OSF-0250 | OSF-0250PN | | 2-1/2 | DN65 | 190 | 373 | 440 | 178 | 17.5 | 139.7 | 145 | | 4-Ø19.1 | | | 17.7 |
| OSF-0300 | OSF-0300PN | | 3 | DN80 | 203 | 408 | 490 | 191 | 19.1 | 152.4 | 160 | 4-Ø19.1 | 8-Ø19.1 | | | 23.1 |
| OSF-0400 | OSF-0400PN | | 4 | DN100 | 229 | 471 | 573 | 229 | 19.1 | 190.5 | 180 | 8-Ø19.1 | 8-Ø19.1 | | | 31.6 |
| OSF-0500** | OSF-0500PN** | | 5 | DN125 | 254 | 541 | 665 | 254 | 19.1 | 215.9 | 210 | 8-Ø22.2 | 8-Ø19.1 | | | 42.2 |
| | OSF-0600 | | 6 | DN150 | 267 | 601 | 755 | 279 | 19.1 | 241.3 | 240 | 8-Ø22.2 | 8-Ø23 | | | 53.2 |
| OSF-0800 | OSF-0800PN10 | OSF-0800PN16 | 8 | DN200 | 292 | 774 | 975 | 343 | 22.2 | 298.5 | 295 | 8-Ø22.2 | 12-Ø23 | 8-Ø23 | | 91.3 |
| OSF-1000 | OSF-1000PN10 | OSF-1000PN16 | 10 | DN250 | 330 | 939 | 1193 | 406 | 23.8 | 362.0 | 355 | 350 | 12-Ø25.4 | 12-Ø28 | 12-Ø23 | 134.6 |
| OSF-1200 | OSF-1200PN10 | OSF-1200PN16 | 12 | DN300 | 356 | 1065 | 1370 | 483 | 25.0 | 431.8 | 410 | 400 | 12-Ø25.4 | 12-Ø28 | 12-Ø23 | 200.0 |
| OSF-1400 | - | OSF-1400PN16 | 14 | DN350 | 381 | 1210 | 1560 | 533 | 25.0 | 476 | 470 | - | 12-Ø28.6 | 16-Ø26 | - | 344.0 |
| OSF-1600 | - | OSF-1600PN16 | 16 | DN400 | 406 | 1280 | 1680 | 597 | 25.0 | 540 | 525 | - | 16-Ø28.7 | 16-Ø30 | - | 356.0 |
| OSF-1800 | - | OSF-1800PN16 | 18 | DN450 | 432 | 1760 | 2210 | 635 | 25.0 | 578 | 585 | - | 16-Ø31.8 | 20-Ø30 | - | 532.0 |
| OSF-2000 | - | OSF-2000PN16 | 20 | DN500 | 457 | 1780 | 2280 | 699 | 29.0 | 635 | 650 | - | 20-Ø31.8 | 20-Ø33 | - | 567.0 |
| OSF-2400 | - | OSF-2400PN16 | 24 | DN600 | 508 | 1950 | 2550 | 813 | 30.0 | 749 | 770 | - | 20-Ø34.9 | 20-Ø36 | - | 785.0 |

* Valve flange drilling (size and location of bolt holes and pitch circle diameter) allows mating with the following flange types: ANSI = ANSI B16.1 Class 125 | PN10 = DIN 2501, BS 4504, EN 1092 - PN10 | PN16 = DIN 2501, BS 4504, EN 1092 - PN16

** UL Listed only

Note: This document contains basic product information only. Information, photos and drawings are not contractually binding. In all cases, the manufacturer's full technical documentation remains the reference document. Note that certificates, test reports and approvals may be published in the OEM name. The contents of this publication are subject to modifications without notice. All rights reserved

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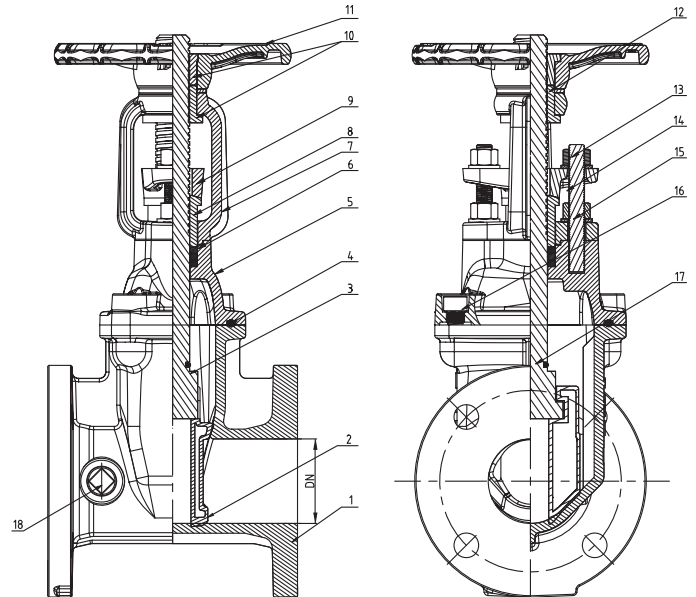




Control Valves & Devices | Gate Valves & Indicator Posts | OS&Y Gate Valve | Flanged | OSF

Materials | OSF

| Item | Description | Material | Specification |
|------|----------------------|-----------------|----------------------------|
| 1 | Valve Body | Ductile Iron | ASTM A536, 65-45-12 |
| 2 | Resilient Wedge Disc | Ductile Iron | ASTM A536, 65-45-12 & EPDM |
| 3 | Stem | Stainless Steel | AISI 420 |
| 4 | Bonnet Gasket | EPDM | Commercial |
| 5 | Bonnet | Ductile Iron | ASTM A536, 65-45-12 |
| 6 | Stem Packing | EPDM | Commercial |
| 7 | Yoke | Ductile Iron | ASTM A536, 65-45-12 |
| 8 | Stem Bushing | Brass | HPb59-1 |
| 9 | Gland | Ductile Iron | ASTM A536, 65-45-12 |
| 10 | Stem Nut | Brass | HPb59-1 |
| 11 | Handwheel | Ductile Iron | ASTM A536, 65-45-12 |
| 12 | Washer | Brass | CW617N |
| 13 | Gland Nut | Carbon Steel | Zinc Plated |
| 14 | Stud | Carbon Steel | Zinc Plated |
| 15 | Flat Washer | Carbon Steel | Zinc Plated |
| 16 | Bolt | Carbon Steel | Zinc Plated |
| 17 | O-Ring | NBR | Commercial |
| 18 | Plug | Bronze | ASTM B583 C89833 |



Installation | OSF

1. Piping systems and valves should be thoroughly cleaned and free from ingress of foreign materials.
2. Visually inspect the valve seating and ports for cleanliness immediately prior to installation.
3. All valves should be independently supported against movement and stress from the connected piping system.
4. Ensure that the valve pressure rating is compatible with service conditions.
5. Operate the valve at least once from the open to closed position.
6. Verify that packing nuts are tight before pressurizing the system.
7. Gate valves are not suitable for throttling applications.
8. Gate valves should be installed in the vertical position on horizontal pipework and in the horizontal position on vertical pipework.

Operation | OSF

Gate valves are manually operated multi-turn valves and are opened by a handwheel or other operating device, generally in a counter clockwise direction and then closed clockwise.

Inspection & Maintenance | OSF

1. Valves should be inspected periodically and should be cycled to prevent buildup of foreign materials in the piping system and valve body.
2. In the event of a packing leak adjust the packing nuts to increase pressure on the stem packing. Packing nuts should be tightening evenly approximately a quarter turn in a clockwise direction.
3. Always shut down the system before repacking the valve. Valves are designed with backseats for repacking under pressure but this is not recommended.

Closing torque for handwheel | OSF

| Size | | Closing Torque Nm |
|--------|-------|-------------------|
| 2" | DN50 | 27 |
| 2-1/2" | DN65 | 38 |
| 3" | DN80 | 65 |
| 4" | DN100 | 80 |
| 5" | DN125 | 100 |
| 6" | DN150 | 125 |
| 8" | DN200 | 160 |
| 10" | DN250 | 240 |
| 12" | DN300 | 300 |
| 14" | DN350 | 306 |
| 16" | DN400 | 374 |
| 18" | DN450 | 442 |
| 20" | DN500 | 578 |
| 24" | DN600 | 646 |

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