



### Gate Valves | Outside Screw & Yoke (OS&Y) | Flange | OSF-1

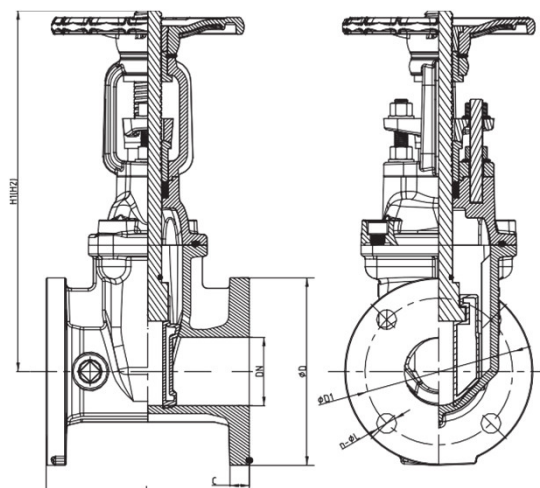


#### SPECIFICATIONS

Sizes	2½"/DN65, 3"/DN80, 4"/DN100, 5"/DN125, 6"/DN150, 8"/DN200, 10"/DN250, 12"/DN300
Working Pressure	300 psi / 21bar
Working Temperature	-20°C to 100°C (-4°F to 230°F)
Seat type	Resilient wedge
Finish	Epoxy resin coated internal and external
Material (body)	Ductile iron
Connections	Flange diameter and thickness according to ANSI B16.1 Class 125 or EN1092-2 PN16
Specifications	Design and dimensions conform to AWWA C515
Approvals	UL, FM

#### Product Parts, Materials & Standard

Description	Material	Specification
Body	Ductile Iron	ASTM A536 65-45-12
Bonnet	Ductile Iron	ASTM A536 65-45-12
Grand	Ductile Iron	ASTM A536 65-45-12
Disc	Ductile Iron & EPDM	ASTM A536 65-45-12 & EPDM
Stem	SS304	ASTM A276
Nut	SS304	ASTM A276
Stud	SS304	ASTM A276
Flat Washer	SS304	ASTM A276
O-Ring	EPDM	ASTM D2000 EPDM
Sealing Ring	EPDM	ASTM D2000 EPDM
Sealing Gland	EPDM	ASTM D2000 EPDM
Retaining Ring	C95400	ASTM B148
Plug	C95400	ASTM B148



#### Product Data & Part Numbers

Size		Part Number*	Dimensions in mm						Weight (Kg)
DN	Inch		L	D	**C (ANSI)	**C (PN16)	n-d	H	
DN65	2½"	OSF1-0250	190	178	139.5	145	4-19	370	21.0
DN80	3"	OSF1-0300	203	191	152.5	160	4-19	420	27.4
DN100	4"	OSF1-0400	229	229	190.5	180	4-19	447	34.5
DN125	5"	OSF1-0500	254	254	216.0	210	8-19	547	59.2
DN150	6"	OSF1-0600	267	279	241.5	240	8-22	607	59.2
DN200	8"	OSF1-0800	292	343	298.5	295	8-22	754	96.2
DN250	10"	OSF1-1000	330	406	362.0	355	12-25	890	142.0
DN300	12"	OSF1-1200	356	483	432.0	410	12-25	1031	193.0

\* Applies to ANSI 125 Flanges. Other flange models will be denoted by a suffix (e.g. OSF1-0300PN16)

\*\* C – Bolt Circle Diameter

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Installation

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

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

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

Size		Closing Torque	
DN	Inch	Nm	lbf
DN50	2"	27	19.9
DN65	2½"	38	28.0
DN80	3"	65	47.9
DN100	4"	80	59.0
DN125	5"	100	73.8
DN150	6"	125	92.2
DN200	8"	160	118.0
DN250	10"	240	177.0
DN300	12"	300	221.3



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