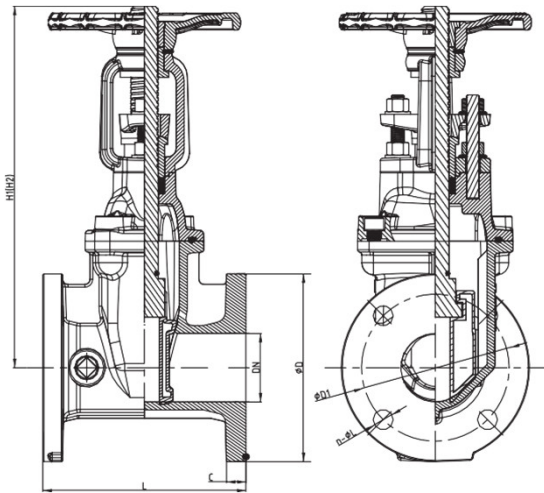
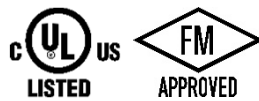




Gate Valves | Outside Screw & Yoke (OS&Y) | Flange | OSF, OSF2, OSF3



SPECIFICATIONS

Sizes	2"/DN50, 2½"/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	300 psi / 21bar (2"-12") 250 psi / 17 bar (14"-24")
Seat type	Resilient wedge
Finish	Fusion bonded epoxy coated internal & external
Material (body)	Ductile iron
Connections	Grooved metric or AWWA C606 standard
Specifications	Design and dimensions conform to AWWA C515
Features	Pre-notched, stainless-steel stem for easy attachment of supervisory switch
Approvals	UL & FM, 5" : UL Listed only 14"-24" : UL & FM as OSF2 (ANSI Flange) & OSF3 (PN16 Flange)

Product Data & Part Numbers

Part Number*			Nominal Pipe Size		Dimensions (mm)											Weight (kg)
ANSI	PN10	PN16	DN	Inch	L	H1 (Closed)	H2 (Open)	D	C	D1			n-ØL			
										ANSI	PN16	PN10	ANSI	PN16	PN10	
OSF-0200	OSF-0200PN		DN50	2"	178	348	400	152	16.0	120.7	125		4-Ø19.1			14.7
OSF-0250	OSF-0250PN		DN65	2½"	190	373	440	178	17.5	139.7	145		4-Ø19.1			17.7
OSF-0300	OSF-0300PN		DN80	3"	203	408	490	191	19.1	152.4	160		4-Ø19.1	8-Ø19.1		23.1
OSF-0400	OSF-0400PN		DN100	4"	229	471	573	229	19.1	190.5	180		8-Ø19.1	8-Ø19.1		31.6
OSF-0500**	OSF-0500PN**		DN125	5"	254	541	665	254	19.1	215.9	210		8-Ø22.2	8-Ø19.1		42.2
	OSF-0600		DN150	6"	267	601	755	279	19.1	241.3	240		8-Ø22.2	8-Ø23		53.2
OSF-0800	OSF-0800PN10	OSF-0800PN16	DN200	8"	292	774	975	343	22.2	298.5	295		8-Ø22.2	12-Ø23	8-Ø23	91.3
OSF-1000	OSF-1000PN10	OSF-1000PN16	DN250	10	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	DN300	12"	356	1065	1370	483	25.0	431.8	410	400	12-Ø25.4	12-Ø28	12-Ø23	200.0
OSF-1400	-	OSF-1400PN16	DN350	14"	381	1210	1560	533	25.0	476	470	-	12-Ø28.6	16-Ø26	-	344.0
OSF-1600	-	OSF-1600PN16	DN400	16"	406	1280	1680	597	25.0	540	525	-	16-Ø28.7	16-Ø30	-	356.0
OSF-1800	-	OSF-1800PN16	DN450	18"	432	1760	2210	635	25.0	578	585	-	16-Ø31.8	20-Ø30	-	532.0
OSF-2000	-	OSF-2000PN16	DN500	20"	457	1780	2280	699	29.0	635	650	-	20-Ø31.8	20-Ø33	-	567.0
OSF-2400	-	OSF-2400PN16	DN600	24"	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

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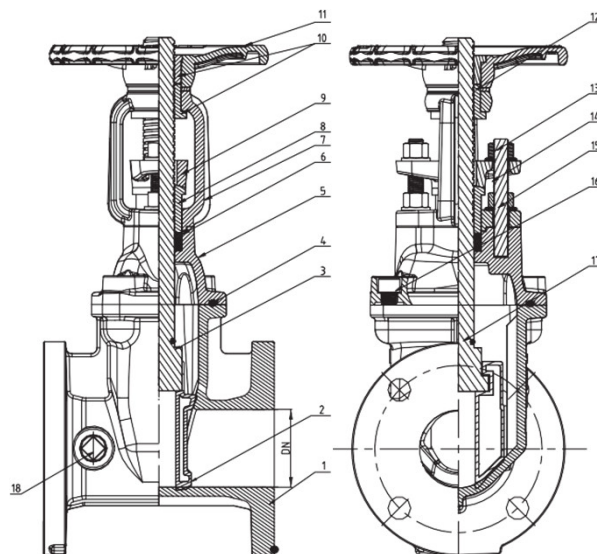




Gate Valves | Outside Screw & Yoke (OS&Y) | Flange | OSF, OSF2, OSF3

Product Parts, Materials & Standard

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	AISI420
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

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
DN350	14"	306	225.7
DN400	16"	374	275.9
DN500	18"	442	326.0
DN600	20"	578	433.0

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