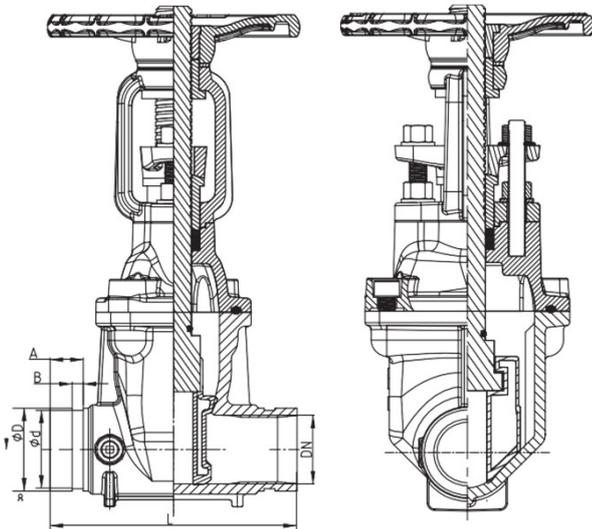




Gate Valves | Outside Screw & Yoke (OS&Y) | Groove | OSG



SPECIFICATIONS	
Sizes	2"/DN50, 2½"/DN65, 3"/DN80, 4"/DN100, 5"/DN125, 6"/DN150, 8"/DN200, 10"/DN250, 12"/DN300
Working Pressure	300 psi / 21bar
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 Only)



Product Data & Part Numbers

Part Number	Size		Pipe O.D. (mm)	Dimensions (mm)						Weight (Kg)
	DN	Inch		L	H1 (Closed)	H1 (Open)	d	A	B	
OSG-0200	DN50	2"	60.3	178	348	400	57.2	15.9	7.9	11.4
OSG-0250-073	DN65	2½"	73.0	190	373	440	69.1	15.9	7.9	12.5
OSG-0250-076			76.1				72.3			
OSG-0300	DN80	3"	88.9	203	408	490	84.9	15.9	7.9	16.9
OSG-0400	DN100	4"	114.3	229	471	573	110.1	15.9	9.5	24.2
OSG-0500-139*	DN125	5"	139.7	254	541	665	135.5	15.9	9.5	33.5
OSG-0500-141*			141.3				137.0			
OSG-0600-165	DN150	6"	165.1	267	601	755	160.9	15.9	9.5	41.3
OSG-0600-168			168.3				164.0			
OSG-0800	DN200	8"	219.1	292	774	975	214.4	19.1	11.1	73.7
OSG-1000	DN250	10"	273.0	330	939	1,193	268.3	19.1	12.7	124.3
OSG-1200	DN300	12"	323.9	356	1,065	1,370	318.3	19.1	12.7	174.5

\* UL Listed only

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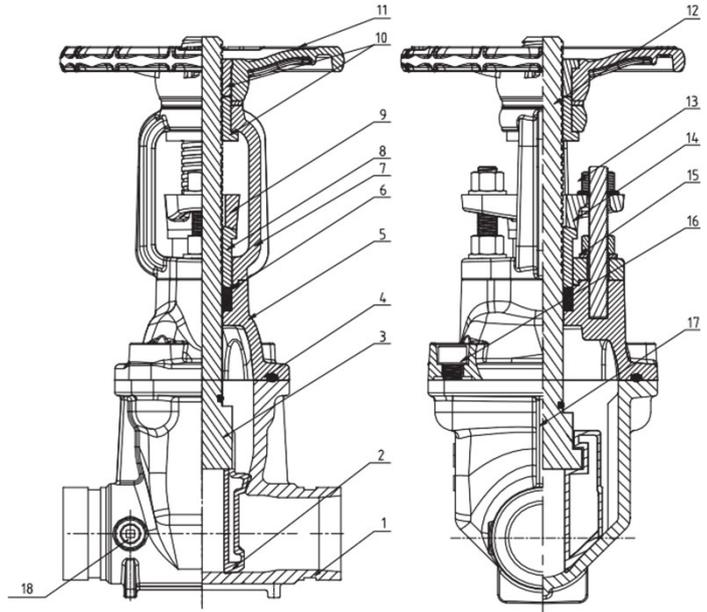




Gate Valves | Outside Screw & Yoke (OS&Y) | Groove | OSG

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	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

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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