



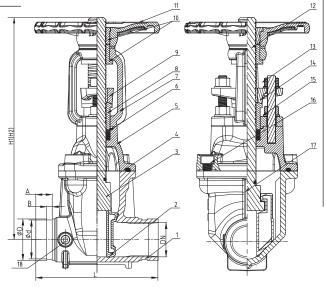


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Outside Screw and Yoke (OS&Y) Gate Valve - Grooved OSG

Technical Features

- Sizes available (Nominal) : 2"/DN50, 21/2"/DN65, 3"/DN80, 4"/DN100, 5"/DN125, 6"/DN150, 8"/DN200, 10"/DN250 and 12"/DN300
- Working pressure : 21 bar (300 psi)
- Seat Type: Resilent wedge
- Finish: Fusion bonded expoxy coating internal and
- Connections : Grooved metric or AWWA C606 standard
- **Specification**: 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



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Physical Data

Nominal Pipe Size		Pipe O.D.	Dimensions (mm)						Reference	Weight
Metric	inch	(mm)	L	H1 (Closed)	H1 (Open)	d	Α	В	Reference	(kg)
DN50	2″	60.3	178	348	400	57.2	15.9	7.9	OSG-0200	11.4
DN65	21/2"	73.0	190	373	440	69.1	15.9	7.9	OSG-0250-073	12.5
DINOS		76.1				72.3			OSG-0250-076	
DN80	3″	88.9	203	408	490	84.9	15.9	7.9	OSG-0300	16.9
DN100	4"	114.3	229	471	573	110.1	15.9	9.5	OSG-0400	24.2
DN125	5″	139.7	254	541	665	135.5	15.9	9.5	OSG-0500-139*	33.5
DIVIZS		141.3				137.0			OSG-0500-141*	
DN150	6"	165.1	267	601	755	160.9	15.9	9.5	OSG-0600-165	41.2
טפואוט	0	168.3	207	601	/33	164.0	13.9		OSG-0600-168	41.3
DN200	8″	219.1	292	774	975	214.4	19.1	11.1	OSG-0800	73.7
DN250	10"	273.0	330	939	1193	268.3	19.1	12.7	OSG-1000	124.3
DN300	12"	323.9	356	1065	1370	318.3	19.1	12.7	OSG-1200	174.5
* UL Listed only										

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Materials List

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

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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.

Closing Torque for Gate Valve Handwheel					
S	ize	Closing Torque Nm			
2″	DN50	27			
21/2"	DN65	38			
3″	DN80	71			
4"	DN100	102			
5″	DN125	122			
6"	DN150	149			
8″	DN200	203			
10	DN250	251			
12"	DN300	305			

Inspection and 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.



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