



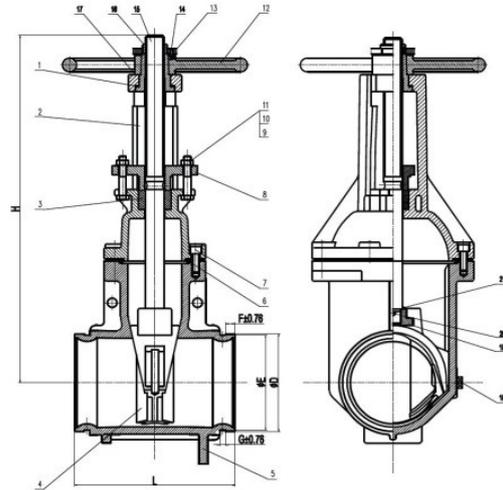
Gate Valves | Outside Screw & Yoke (OS&Y) | Groove | OSG-1



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	Standard metric groove or AWWA C606
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	OD		L	F	D	E	G	H	
DN65	2½"	73.0	OSG1-0250-073	190	15.9	73	69.1	7.9	370	21.0
		76.1	OSG1-0250-076	190	15.9	76.1	72.3	7.9	370	21.0
DN80	3"	88.9	OSG1-0300-089	203	15.9	88.9	84.9	9.7	420	27.4
DN100	4"	114.3	OSG1-0400-114	229	15.9	114.3	110.1	9.5	447	34.5
DN125	5"	139.7	OSG1-0500-139	254	15.9	139.7	135.5	9.5	547	59.2
		141.3	OSG1-0500-141	254	15.9	141.3	137	9.5	547	59.2
DN150	6"	165.1	OSG1-0600-165	267	15.9	165.1	160.8	9.5	607	59.2
		168.3	OSG1-0600-168	267	15.9	168.3	163.9	9.5	607	59.2
DN200	8"	216.3	OSG1-0800-216	292	19	216.3	211.6	11.1	754	96.2
		219.1	OSG1-0800-219	292	19	219.1	214.3	11.1	754	96.2
DN250	10"	273.0	OSG1-1000-273	330	19	273	268.3	12.7	890	142.0
DN300	12"	323.9	OSG1-1200-323	356	19	323.9	318.3	12.7	1031	193.0

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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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