



Gate Valves | Non-Rising Stem (NRS) | Groove | NRGL-4

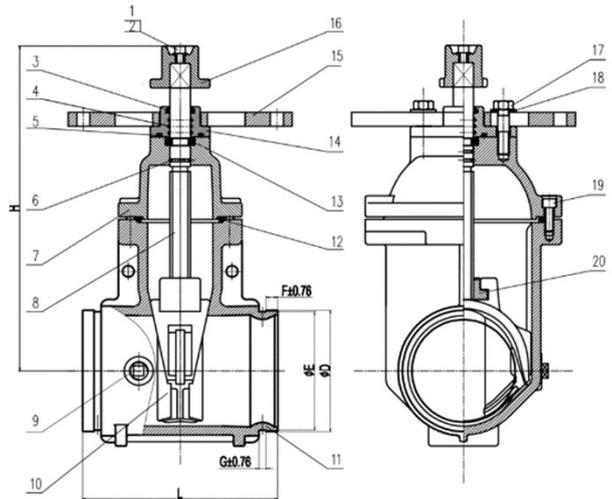


SPECIFICATIONS

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, C-UL, FM

Product Parts, Materials & Standard

No	Part	Material	Standard
1	Flat Washer	Steel1045 / SS304	ASTM A29 / ASTM A276
2	Hexagon Socket Screw	Steel1045 / SS304	ASTM A29 / ASTM A276
3	Sealing Ring	EPDM	ASTM D2000
4	O-ring	EPDM	ASTM D2000
5	Sealing Ring	EPDM	ASTM D2000
6	O-ring	EPDM	ASTM D2000
7	Bonnet	Ductile Iron	ASTM A536 Grade 65-45 12
8	Stem	Steel1045 / SS304	ASTM A29 / ASTM A276
9	Plug	Steel1045 / SS304	ASTM A29 / ASTM A276
10	Disc	Ductile Iron + EPDM	ASTM A536 Grade 65-45 12 & ASTM D2000
11	Body	Ductile Iron	ASTM A536 Grade 65-45 12
12	Sealing Ring	EPDM	ASTM D2000
13	Retaining Ring	C95400	ASTM B 148
14	Gland	Ductile Iron	ASTM A536 Grade 65-45 12
15	Post Flange	Ductile Iron	ASTM A536 Grade 65-45 12
16	Wrench nut	Ductile Iron	ASTM A536 Grade 65-45 12
17	Bolt	Steel1045 / SS304	ASTM A29 / ASTM A276
18	Washer	Steel1045 / SS304	ASTM A29 / ASTM A276
19	Hexagon Socket Screw	Steel1045 / SS304	ASTM A29 / ASTM A276
20	Stem Nut	CF8 / C95400	ASTM A351 / ASTM B 148



Product Data & Part Numbers

DN	Size		Part Number	Dimensions in mm						Weight (Kg)
	Inch	OD		L	F	D	E	G	H	
DN65	2½"	73	NRGL4-250-073	190	15.9	73	69.1	7.9	292	20.2
		76.1	NRGL4-250-076			76.1	72.3			
DN80	3"	88.9	NRGL4-300-089	203	15.9	88.9	84.9	7.9	322	25
DN100	4"	114.3	NRGL4-400-114	229	15.9	114.3	110.1	9.5	342	34
		139.7	NRGL4-500-139			139.7	135.5			
DN125	5"	141.3	NRGL4-500-141	254	15.9	141.3	137	9.5	412	TBA
		165.1	NRGL4-600-165			165.1	160.8			
DN150	6"	168.3	NRGL4-600-168	267	15.9	168.3	163.9	9.5	448	71.2
		216.3	NRGL4-800-216			216.3	211.6			
DN200	8"	219.1	NRGL4-800-219	292	15.9	219.1	214.3	11.1	534	112
		273	NRGL4-1000-273			273	268.3			
DN250	10"	273	NRGL4-1000-273	330	15.9	273	268.3	12.7	635	140.8
DN300	12"	323.9	NRGL4-1200-323	356	15.9	323.9	318.3	12.7	720	201.6

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## Gate Valves | Non-Rising Stem (NRS) | Groove | NRGL-4

### 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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