



Gate Valves | Non-Rising Stem (NRS) | Flange | NRFL-4

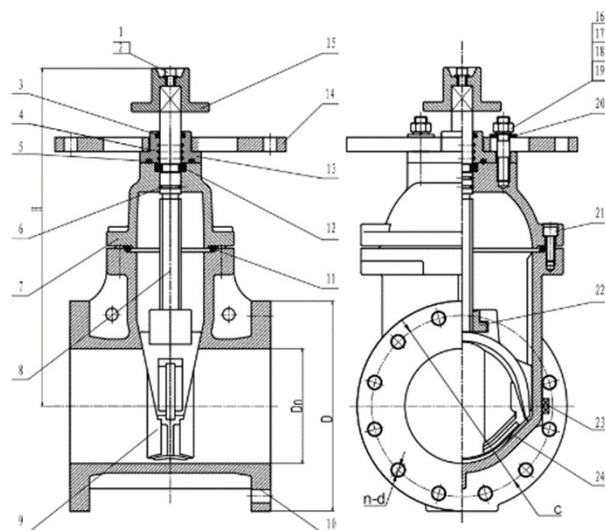


SPECIFICATIONS

Sizes	2"/DN50, 2½"/DN65, 3"/DN80, 4"/DN100, 5"/DN125, 6"/DN150, 8"/DN200, 10"/DN250, 12"/DN300
Working Pressure	300 psi / 21bar
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	Flange diameter and thickness according to ANSI B16.1 Class 125 or EN1092-2 PN16
Specifications	Design and dimensions conform to ANSI
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

Size		Part Number	Dimensions			Weight (Kg)
DN	Inch		L	D	H	
DN50	2"	NRFL4-0200	178	152	265	20.2
DN65	2½"	NRFL4-0250	190	178	292	20.2
DN80	3"	NRFL4-0300	203	191	322	25.0
DN100	4"	NRFL4-0400	229	229	342	34.0
DN125	5"	NRFL4-0500	254	254	412	TBA
DN150	6"	NRFL4-0600	267	279	448	71.2
DN200	8"	NRFL4-0800	292	343	534	112.0
DN250	10"	NRFL4-1000	330	406	635	140.8
DN300	12"	NRFL4-1200	336	483	720	201.6

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The Viking Corporation (far East) Pte. Ltd. | 69 Tuas View Square, Westlink Techpark, Singapore 637621 | vikingapac@vikingcorp.com





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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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