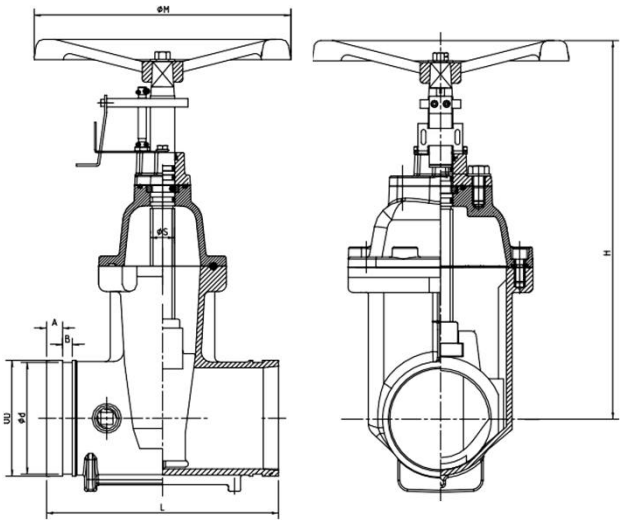
FIREKING

Gate Valves | Non-Rising Stem (NRS) | BS5163 | Groove | NRG5





SPECIFICATIONS	
Sizes	2”/DN50, 2½”/DN65, 3”/DN80, 4”/DN100, 5”/DN125, 6”/DN150, 8”/DN200, 10”/DN250, 12”/DN300
Working Pressure	232 psi / 16bar
Working Temperature	0°C to 70°C (32°F to 158°F)
Seat type	Resilient wedge, EPDM encapsulated
Finish	Fusion bonded epoxy coated internal & external
Material (body)	Ductile iron
Connections	Groove to AWWA C606 standard
Specifications	Design in accordance with BS 5163; Face to face dimension in accordance with EN 558-1, basic series 3
Supervision	Integral bracket allows monitoring of valve in open position using supervisory switch, P/N 828482. For monitoring closed position part number NRF-SB is required

Product Data & Part Numbers

Part Numbers			Size		PN								Weight (kg)
ANSI	PN10	PN16	DN	Inch	Flange	L	H	D	ØD1	Ød	C	T	n-d	
NRG5-0200W	NRG5-0200PNW		DN50	2"	10/16	178	282	165	125	99	19	3	4-Ø19	10.6
NRG5-0250W	NRG5-0250PNW		DN65	2½”	10/16	190	290	185	145	118	19	3	4-Ø19	12.6
NRG5-0300W	NRG5-0300PNW		DN80	3"	10/16	203	331	200	160	132	19	3	8-Ø19	16.7
NRG5-0400W	NRG5-0400PNW		DN100	4"	10/16	229	366	220	180	156	19	3	8-Ø19	21.3
NRG5-0500W	NRG5-0500PNW		DN125	5"	10/16	254	437	250	210	184	19	3	8-Ø19	38.4
NRG5-0600W			DN150	6"	10/16	267	490	285	240	211	19	3	8-Ø23	42.5
NRG5-0800W	NRG5-0800PN10W	NRG5-0800PN16W	DN200	8"	10	292	560	340	295	266	20	3	8-Ø23	62.6
					16								12-Ø23	
NRG5-1000W	NRG5-1000PN10W	NRG5-1000PN16W	DN250	10"	10	330	706	405	350	319	22	3	12-Ø23	117.1
					16				355				12-Ø28	
NRG5-1200W	NRG5-1200PN10W	NRG5-1200PN16W	DN300	12"	10	356	802	460	400	370	24.5	4	12-Ø23	164.9
					16				410				12-Ø28	
NRG5-1400W	NRG5-1400PN10W	NRG5-1400PN16W	DN350*	14"	10	381	1005	520	460	429	26.5	4	16-Ø23	316.1
					16				470				16-Ø28	

Valve flange drilling (size and location of bolt holes and pitch circle diameter) allows mating with the following flange types :

ANSI = ANSI B16.1 Class 125 PN10 = DIN 2501, BS 4504, EN 1092 - PN10 PN16 = DIN 2501, BS 4504, EN 1092 - PN16

* 14”/DN350 is not WRAS approved

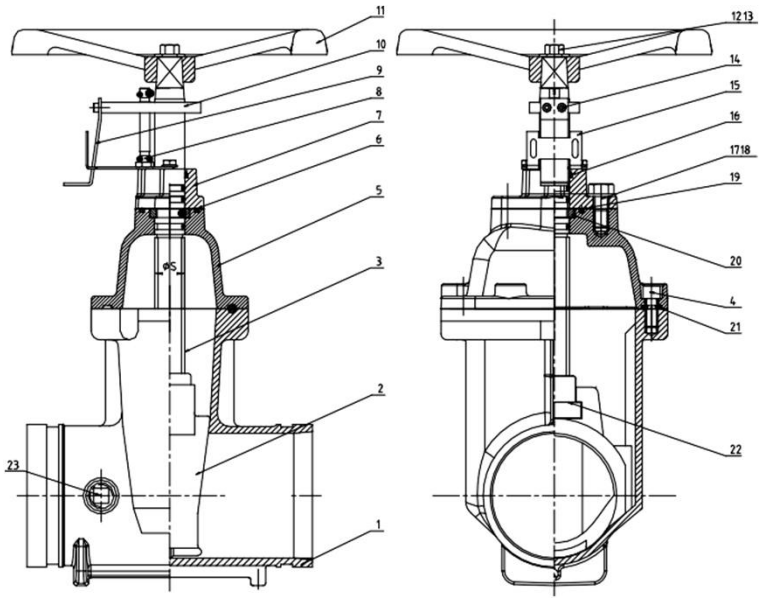
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FIREKING

Gate Valves | Non-Rising Stem (NRS) | BS5163 | Groove | NRG5

Product Parts, Materials & Standard

Item	Description	Material	Specification	
1	Valve body	Ductile iron	EN-GJS-450-10	
2	Resilient wedge disc	Ductile iron	EN-GJS-450-10 & EPDM	
3	Stem	Stainless steel	SS420	
4	Bolt	Carbon steel	Zinc plated	
5	Bonnet	Ductile iron	EN-GJS-450-10	
6	O-ring	Nbr	Commercial	
7	Gland	Ductile iron	EN-GJS-450-10	
8	Position fixing spindle	Stainless steel	SS316	See 24
9	Limit plate	Stainless steel	SS316	
10	Position fixing plate	Stainless steel	SS316	
11	Handwheel	Ductile iron	EN-GJS-450-10	
12	Bolt	Carbon steel	Zinc plated	
13	Flat washer	Carbon steel	Zinc plated	
14	Bolt	Carbon steel	Zinc plated	
15	Fixed plate	Stainless steel	SS316	
16	Ring wiper	Epdm	Commercial	
17	Bolt	Carbon steel	Zinc plated	
18	Flat washer	Carbon steel	Zinc plated	
19	O-ring	Epdm	Commercial	
20	Thrust washer	Brass	HPb59-1	
21	Bonnet gasket	Epdm	Commercial	
22	Wedge nut	Brass	HPb59-1	
23	1/2" Plug	bronze	ASTM B584 C83600	
24	Switch bracket for NRF5 Valve - Part Number: NRF-SB			



Installation | NRF5

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. Gate valves are not suitable for throttling applications.
7. Gate valves should be installed in the vertical position on horizontal pipework and in the horizontal position on vertical pipework.

Operation | NRF5

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 | NRF5

Valves should be inspected periodically and should be cycled to prevent buildup of foreign materials in the piping system and valve body.

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
DN350	14"	306	225.7

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