



NRS GP Flanged Gate Valve BS 5163 Fig. 112

Product Description

Rapidrop Fig.112 Valve is a manually operated, non rising stem resilient wedge gate valve designed for use in fire protection systems for on/off operation only. The lightweight ductile iron body allows for easier handling and reduced shipping costs. Valves are suitable for both vertical and horizontal installation and are equipped with a visual open - close indicator.

Valve components are corrosion resistant or coated with a thermally applied fusion-bonded epoxy. The EPDM encapsulated ductile iron wedge with a compression mechanism is designed to achieve water tight sealing and low torque operation.

Working Pressure

Max. Working Pressure 16 bar (232 psi)

Temperature Range

0°-80°C

Coating

Fusion Bonded Epoxy Coating in accordance with ANSI /AWWA C550

Flange Specification

EN 1092-2 , PN16 raised face

Design Standards

BS5163

EN 558-1

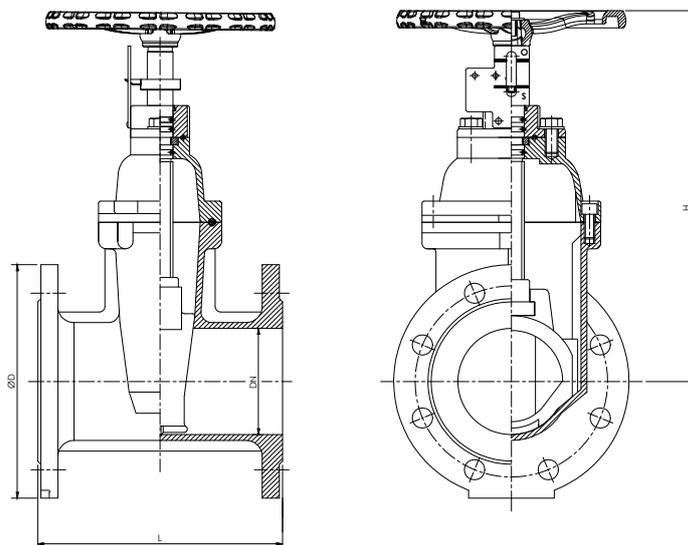
Optional position indicator switch



Sizes

Sizes		Dimensions (mm)		Weight (Kg)	Product Ordering Code
mm	inch	L	H		
DN50	2"	178	282	10.5	RD112FF050
DN65	2.5"	190	292	12.5	RD112FF065
DN80	3"	203	331	16.5	RD112FF080
DN100	4"	229	366	21.6	RD112FF100
DN125	5"	254	443	38.1	RD112FF125
DN150	6"	267	490	42.9	RD112FF150
DN200	8"	292	560	62.6	RD112FF200
DN250	10"	330	698	116.8	RD112FF250
DN300	12"	356	803	165.4	RD112FF300
DN350*	14"*	381	1003	315.9	RD112FF350
DN400*	16"*	406	1003	326.0	RD112FF400

* Not WRAS Approved





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Installation

Rapidrop Figure 112 Flanged Gate Valve is suitable for indoor and outdoor use. The valve should be installed in a location easily accessible for operation and maintenance. The valve may be installed in any position and the flow may be from either direction through the valve. Valves should be supported independently to prevent the movement and stresses from the connecting piping system.

1. Visually inspect the valve, make sure that the connecting flanges are clean of debris and any foreign materials.
2. Ensure that valve is in the closed position during handling and installation process.
3. Insert the valve with appropriate gaskets between the flanges and tighten all flange bolts using the crossover method.
4. After tightening the bolts check the operation by fully opening and closing the valve.
5. Before pressurising the system make sure the valve is in fully open position.

Care and Maintenance

The valve should never be forced to seat by applying a wrench to the handwheel as this may distort the valve components. The use of excessive force to open or close the valve violates all warranties.

The valve should not be used to force a pipeline into position as this may result in the damage of the valve components.

Rapidrop gate valves require no regular maintenance, however it is advisable to inspect and verify proper operation of the unit annually or in accordance with the authority having jurisdiction.

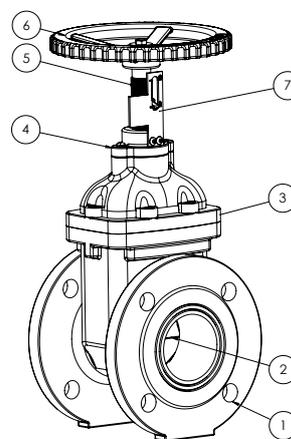
The inspection should include a visual check for leakage at the pipe connection. Inspection and maintenance should be performed by a competent person in accordance with national codes/ requirements.

Debris in the piping system might cause difficulties in closing the valve, this problem can be overcome by backing off the handwheel and closing the valve again.

Rapidrop Figure 112 Flanged Gate Valves are suitable for both indoor and outdoor use. Minor degradations of surface finish should not affect the performance of the valve.

Recommended Flange Bolt Tightening Torque

Sizes	Recommended Minimum Torque	Sizes	Recommended Minimum Torque
DN 50 2"	27 Nm	DN 200 8"	203 Nm
DN 65 2.5"	38 Nm	DN 250 10"	251 Nm
DN 80 3"	70 Nm	DN 300 12"	305 Nm
DN 100 4"	102 Nm	DN 350 14"	305 Nm
DN 125 5"	125 Nm	DN 400 16"	374 Nm
DN 150 6"	149 Nm		



Material Specification

No	Description	Material
1	Valve Body	Ductile Iron
2	Disc	Ductile Iron + EPDM
3	Bonnet	Ductile Iron
4	Gland	Ductile Iron
5	Stem	Stainless Steel
6	Handwheel	Ductile Iron
7	Indicator	Cast Aluminium

Important Installation Information

- Rapidrop Figure 112 Flanged Gate Valve must only be installed by a competent person in accordance with requirements of the local authority having jurisdiction. Deviations from these standards will invalidate warranty.
- It is the responsibility of the installing contractor to include a copy of this document in the sprinkler system installation, operating and maintenance manual.
- Alterations to Rapidrop products will void any warranty.
- Figure 112 Flanged Gate Valve should be inspected and maintained during routine sprinkler system inspections by a competent person in accordance with national codes/requirements.
- Failure to follow these instructions could cause improper operation, resulting in personal injury and/or property damage.
- For further details and technical support please contact your Rapidrop sales representative.