OS&Y Resilient Wedge Grooved Gate Valve
Fig. 113GG

Product Description

Rapidrop Fig.113GG Valve is a manually operated, outside screw & yoke 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.

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. The stem is pre notched to accommodate OSY2 limit switch.

Working Pressure

Max. Working Pressure 20.7 bar (300 psi)

Temperature Range

0°-80°C

Coating

Fusion Bonded Epoxy Coating in accordance with ANSI /AWWA C550

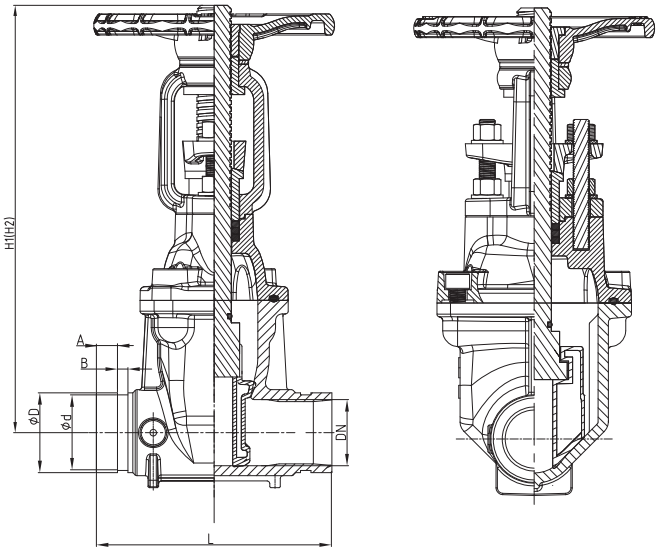
Groove Specification

ISO 6182

Design Standards

FM 1120

UL 262



Sizes

Sizes		Dimensions (mm)							Weight (Kg)	Pressure Rating Approvals		OrderingCode
mm	in	L	H1 (close)	H2 (open)	D	d	A	B		FM	UL	
DN 50	2"	178	348	400	60.3	57.15	15.88	7.92	6.6	✓	✓	RD113-300GG050
DN 65	2.5"	190	373	440	73.0	69.09	15.88	7.92	8.0	✓	✓	RD113-300GG065
DN 65	2.5"	190	373	440	76.1	69.09	15.88	7.92	8.0	✓	✓	RD113-300GG076
DN 80	3"	203	408	490	88.9	84.94	15.88	7.92	12.3	✓	✓	RD113-300GG080
DN 100	4"	229	471	573	114.3	110.08	15.88	9.52	16.6	✓	✓	RD113-300GG100
DN 125	5"	254	541	665	139.7	137.03	15.88	9.52	31.6	-	✓	RD113-300GG139
DN 150	6"	267	601	755	165.1	163.96	15.88	9.52	36.0	✓	✓	RD113-300GG150
DN 150	6"	267	601	755	168.3	163.96	15.88	9.52	36.0	✓	✓	RD113-300GG168
DN 200	8"	292	774	975	219.1	214.40	19.05	11.13	52.2	✓	✓	RD113-300GG200
DN 250	10"	330	939	1193	273.0	268.28	19.05	12.70	112.3	✓	✓	RD113-300GG250
DN 300	12"	356	1065	1370	323.9	318.29	19.05	12.70	154.3	✓	✓	RD113-300GG300

Rapidrop Global Ltd
T: +44 (0) 1733 847 510 F: +44 (0) 1733 553 958
e: rapidrop@rapidrop.com
w: www.rapidrop.com

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Installation

Rapidrop Figure 113GG Grooved 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 the seating area is not damaged and that the connecting faces are clean of debris and any foreign materials.
2. Ensure that valve is in the closed position during handling and installation process.
3. Using appropriate grooved couplings connect the valve with adjacent pipe or fitting. Follow the instructions supplied by the manufacturer of the couplings.
4. 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.

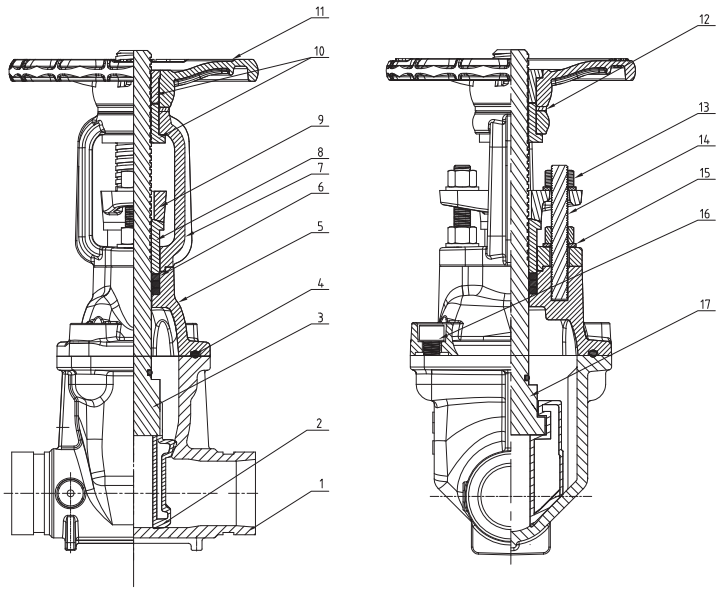
Rapidrop gate valves require no regular maintenance, however it is advisable to inspect and verify proper operation of the unit annually or in accordance with the authority having jurisdiction.

The inspection should include a visual check for leakage at the pipe connection and the stem. In case of leakage around the stem area, tighten the gland nuts (9) evenly approximately a quarter turn in clockwise direction.

It is recommended to shut down the system if repacking the valve is necessary. 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 113GG Grooved Gate Valves are suitable for both indoor and outdoor use. Minor degradations of surface finish should not affect the performance of the valve.



Material Specification

No	Description	Material
1	Valve Body	Ductile Iron
2	Disc	Ductile Iron+ EPDM
3	Stem	Stainless Steel
4	Bonnet Gasket	EPDM
5	Bonnet	Ductile Iron
6	Washer	C22000
7	Yoke	Ductile Iron
8	Stem Bushing	Brass
9	Gland Flange	Ductile Iron
10	Stem Nut	Brass
11	Handwheel	Ductile Iron
12	Washer	C22000
13	Gland Nut	Carbon Steel Zinc Plated
14	Stud	Carbon Steel Zinc Plated
15	Flat Washer	Carbon Steel Zinc Plated
16	Nut	Carbon Steel Zinc Plated
17	O-Ring	EPDM

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