



IRON HOSE GATE VALVE

FIGURE 109

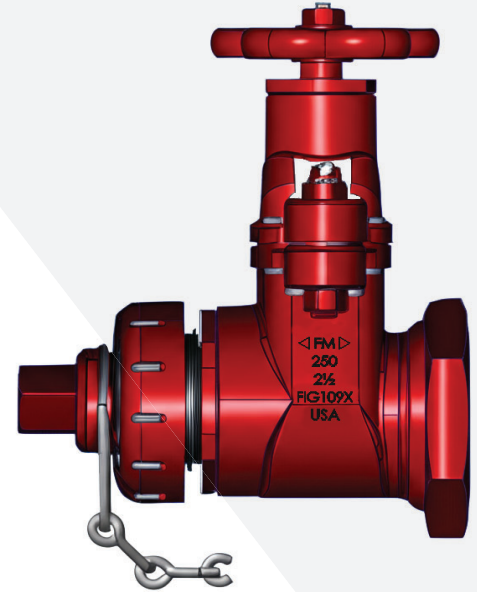
2 1/2"

Overview

Made in the USA, Kennedy Figure 109 Hose Gate Valves are UL Listed and FM Approved accessories for use with Kennedy K81 and K17 Fire Hydrants. Figure 109s enable the operator/owner to control water flow from each hydrant hose connection once the hydrant main valve has been energized.

Figure 109 installations adhere to the standards outlined by the National Fire Protection Association (NFPA), including NFPA 13, NFPA 13R, NFPA 14, or NFPA 20. The valve is intended to be inspected, tested, and maintained in accordance with NFPA 25

The hose gate valve inlets are designed to offer versatility to accommodate various installation scenarios. With two options, the 2 1/2" inlet hydrant flange can be installed in either a bolt-on or female threaded version. The Figure 109 outlet is manufactured in accordance with NFPA 1960 standards. Outlets come standard with NST thread nozzle and capped safeguard the internal components from external elements and contaminants.



Technical Data

AVAILABLE SIZES

- Nominal 2 1/2" (DN65)

PRESSURE RATING

- UL Listed and FM Approved Pressure: 250PSI (17.24BAR)

BODY CONSTRUCTION

- Cast Iron

COATINGS

- Ken-Guard TGIC Polyester

HOSE GATE VALVE INLET OPTION

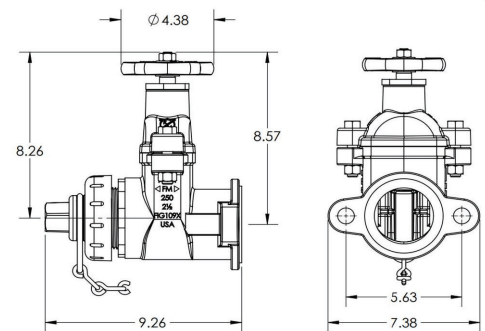
- 109XNS (Bolt-On):** The bolt-on inlet design offers an flange connection method, facilitating specific orientation requirements.
- 109XMN (Female Thread):** Features female threads, providing a secure and standard connection.

DISC

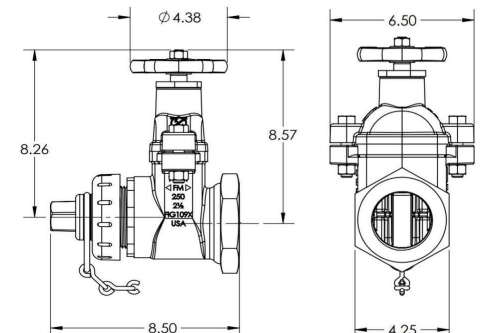
- Disc: Bronze

OPTIONS

- Cap and Chain,
- Customizable nozzle threads



109XNS (Bolt-On)

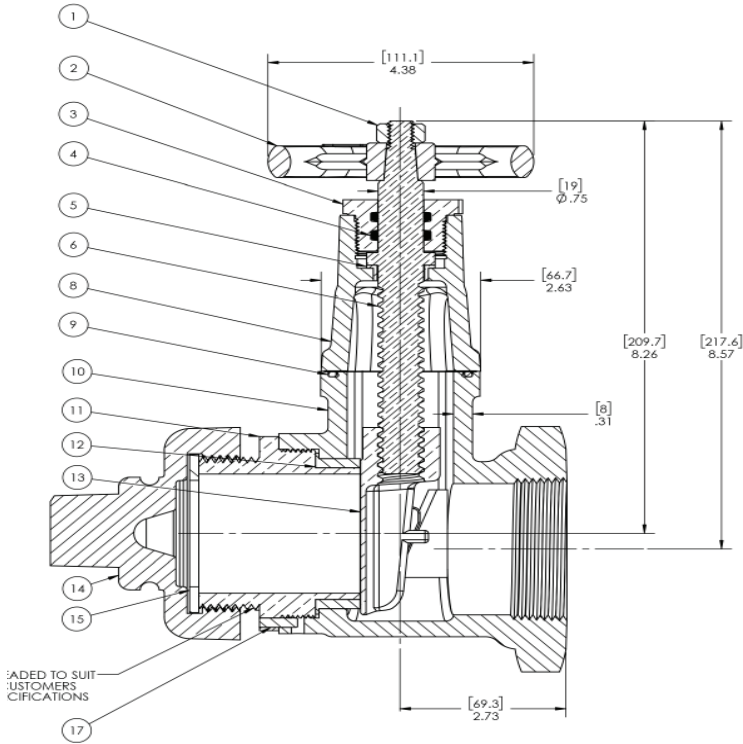


109XMN (Female Thread)

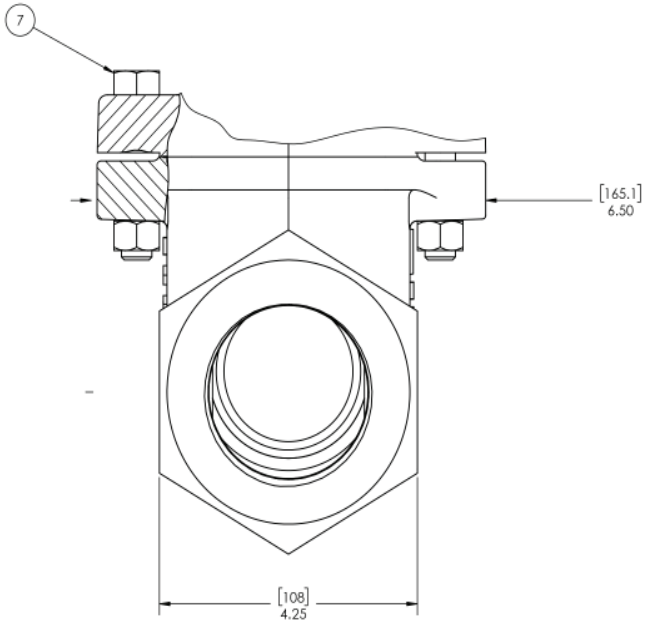


IRON HOSE GATE VALVE (FEMALE THREADED) FIGURE 109MXN

2 1/2"

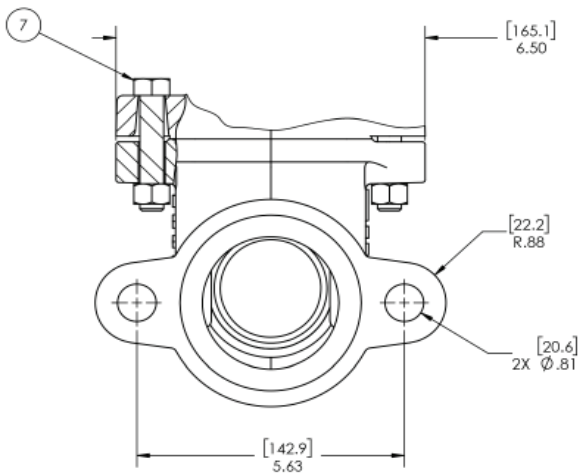
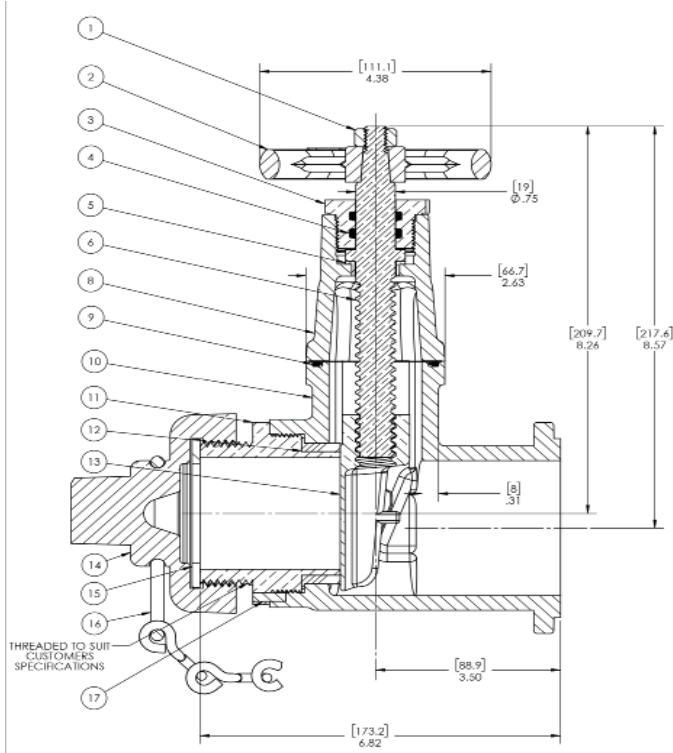


ADDED TO SUIT CUSTOMERS SPECIFICATIONS



109XMN (Female Thread)

ITEM	PART	MATERIAL	ASTM SPEC
1	WHEEL NUT	STEEL	A307 GRADE B
2	HANDWHEEL	DI 65-45-12 OR MAL. IRON	ASTM-A536 OR A-47
3	STUFFING BOX	C69300	B371
4	O-RING	EPDM	D735
5	BUSHING	-	-
6	STEM	C89833	B584
7	HEX BOLT & NUT	STEEL	A307 GRADE B
8	BONNET	CAST IRON	A126 CLASS B
9	O-RING	EPDM	D735
10	BODY	CAST IRON	A126 CLASS B
11	HOSE NOZZLE	C89833	B584
12	SEAT SEAL	NEOPRENE	UL668
13	DISC	C89833	B584
14	NOZZLE CAP	CAST IRON	A126 CLASS B
15	GASKET	SYN. RUBBER	-
16	CHAIN	R.P. STEEL	A108
17	PIN	BRONZE ROD	B16
19		-	
20	SPECIAL GASKET IN PLACE OF #9	CLOTH INSERTED RUB. GARLOCK 159 OR EQUAL	REF. DRAWING 11176



ITEM	PART	MATERIAL	ASTM SPEC
1	WHEEL NUT	R.P STEEL	A307 GRADE B
2	HANDWHEEL	MALL. IRON	A47
3	STUFFING BOX	ND-358X	B135 ALLOY A
4	O-RING	BUNA-N SYN. RUBBER	D735
5	BUSHING	BRONZE	B62
6	STEM	MANGANESE BRONZE	B132 ALLOY A
7	HEX BOLT & NUT	R.P. STEEL	A307 GRADE B
8	BONNET	CAST IRON	A126 CLASS B
9	O-RING	BUNA-N SYN. RUBBER	D735
10	BODY	CAST IRON	A126 CLASS B
11	HOSE NOZZLE	BRONZE	B62
12	SEAT SEAL	NEOPRENE	UL668
13	DISC	BRONZE	B62
14	NOZZLE CAP	CAST IRON	A126 CLASS B
15	GASKET	SYN. RUBBER	-
16	CHAIN	R.P. STEEL	A108
17	PIN	BRONZE ROD	B16
19		Part2^53376X	
20	GASKET	SYN. RUBBER	ALTERNATE USE



IRON HOSE GATE VALVE FIGURE 109 INSTALLATION

2½"

HOSE GATE VALVE INSTRUCTIONS

Step 1 Safety Precautions: Ensure that the work area is safe and clear of any potential hazards. Wear appropriate personal protective equipment (PPE) such as gloves and safety glasses.

Step 2 Valve Inspection: Inspect the hose gate valve to ensure it is free from any damage or defects. Confirm that all components, including the threads, are in good condition (in accordance with NFPA 25).

Step 3 Identify Inlet and Outlet: Identify the inlet and outlet of the hose gate valve. Refer to the valve specifications to determine the specific type of connection (e.g., female thread, bolt-on) for each.

Step 4 Thread Preparation: If the valve has female threads, ensure that the threads are clean and free from debris.

Step 5 Connect the Inlet: For the bolt-on hose gate install the gasket. Bolt the hose gate valve to the hydrant to connect the inlet to the water supply source. For the screw-on hose gate valve, use a pipe wrench or adjustable wrench to tighten the connection. If the valve has a chain, ensure that it is properly secured.

Step 6 Open the Valve: Open the hose gate valve and the hydrant. Allow the hydrant to fill, letting water flow out of the hose gate. Then close the hose gate valve.

Step 7 Pressure Test: Inspect the hose valve to ensure the valve is functioning correctly and there are no leaks. Follow the appropriate safety procedures during the pressure testing (in accordance with NFPA 25).

Step 8 Close the Valves: Close the hydrant. Open the hose valve to allow for drainage. When the hydrant is drained, close the hose valve. Install cap if provided.

Step 9 Final Inspection: Conduct a final inspection of the entire installation to verify that all connections are tight, secure, and in accordance with the valve specifications and relevant standards.