

Engineering Specification

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series 411

AWWA C508 Swing Check Valve

2" - 12"

The Series 411 cast iron swing check valve is engineered for dependable performance in commercial, industrial, and municipal water systems, where protection against reverse flow is critical to maintaining system integrity and preventing equipment damage. Designed for horizontal or vertical (flow-up) installation, this valve is ideal for pump discharge, water distribution lines, and other potable water applications. It features a rugged cast iron body with ANSI flanged ends for secure system integration, along with a full-port design to reduce pressure drop and support efficient flow characteristics. The valve is equipped with a lead-free bronze disc and seat, offering superior corrosion resistance and wear durability over time.

Features

- ASTM A126 Class B Cast Iron Body
- Lead free bronze disc and seat
- Complies with ASME B16.10 and ASME B16.1
- Full Port Design
- Pressure rated 200psi (12.1 bar) CWP
- Compliant with AWWA C508 and NSF 61

Standards

Face-to-face: The dimensions of the valves comply with the American Standard for face-to-face dimensions (ASME B16.10) for Class 125 cast iron flanged valves.

End Flanges: The dimensions and drilling of end flanges conform to the American cast iron flange standard, Class 125 (ASME B16.1). The flanges are flat faced with smooth finish.

Approvals

Valves comply with the following standards:
AWWA C508
Body & Cover use NSF 61 Certified Coating
MSS SP-71



411

Specification

Swing check valve to be manufactured using ASTM A126 Class B Cast Iron with lead free bronze disc and seat and comply with MSS SP-71. Valve to be pressure rated to 200psi (12.1 bar) CWP with flanged ends that comply with ASME B16.10 and ASME B16.1 Class 125 standards. Series 411 shall comply with AWWA C508 and use a NSF 61 certified coating and shall comply with state codes and standards, where applicable, requiring reduced lead content. Valve shall have a full port design, and be in-line repairable. Valve to be Watts Series 411 Swing Check Valve.

NOTICE

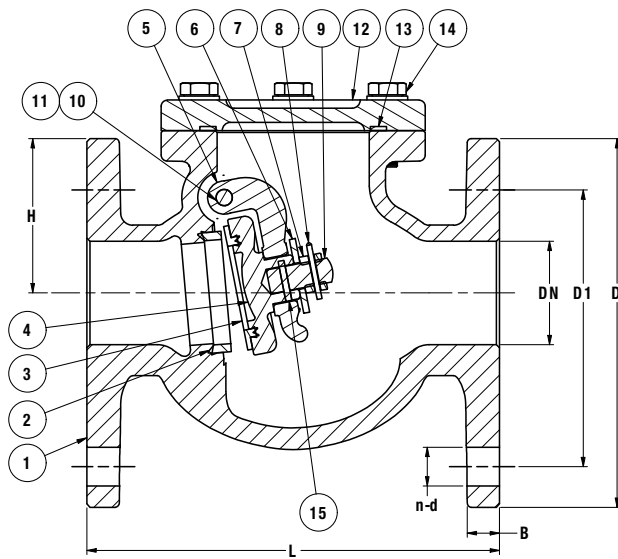
The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Inquire with governing authorities for local installation requirements.

Parts - Materials

Call customer service if you need assistance with technical details.

NO.	PARTS	MATERIALS	ASTM DESIGNATION
1	Body	Cast Iron w/ NSF Certified Coating	A126 CL.B
2	Seat Ring	Lead-Free Cast Bronze	ASTM B763 (C95400)
3	Disc Ring	Lead-Free Cast Bronze	ASTM B763 (C95400)
4	Disc	Lead-Free Cast Bronze	ASTM B763 (C95400)
5	Hinge	Ductile Iron	ASTM A536-24 GR 65-45-12
6	Washer	Stainless Steel	ASTM A304
7	Nut	Stainless Steel	ASTM A304
8	Split Pin	Stainless Steel	ASTM A304
9	Disc Screw	Stainless Steel	ASTM A304
10	Screw Plug	Brass	ASTM B16
11	Hinge Pin	Stainless Steel	ASTM A304
12	Cover	Cast Iron w/ NSF Certified Coating	A126 CL.B
13	Gasket	Graphite	Non-Asbestos
14	Bolt	Stainless Steel	ASTM A304
15	Pin	Stainless Steel	ASTM A304

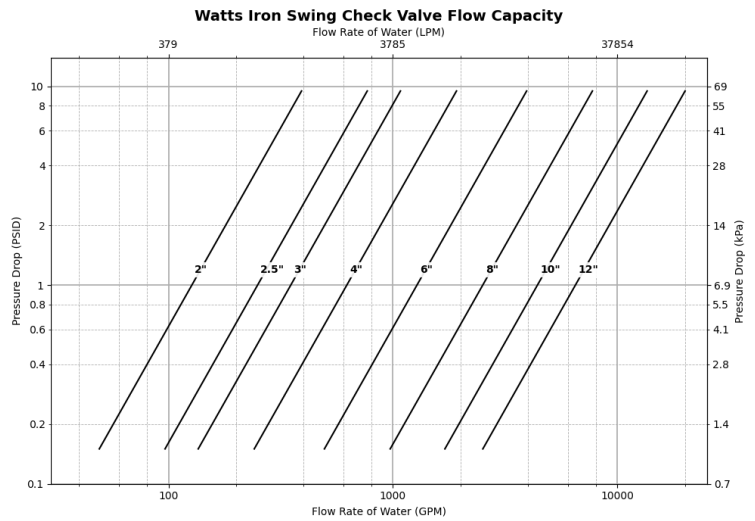


Pressure - Temperature

Maximum Pressure: 200psi (12.1 bar) CWP

Maximum Temperature: 180°F (82°C)

Capacity



Dimensions – Weights

SIZE		DIMENSIONS										WEIGHT				
in.	mm	L		D		D1		B		Bolt Holes Size n-d		Bolt Holes Qty. n	H		lbs.	Kgs.
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		in.	mm		
2"	51	8"	203	6"	152.0	4¾"	121.0	⅝"	15.9	¾"	19	4	4⅞"	112.0	28	13
2½"	64	8½"	216	7"	178.0	5½"	140.0	11/16"	17.5	¾"	19	4	5¾"	132.0	37	17
3"	76	9½"	241	7½"	190.0	6"	152.5	¾"	19.0	¾"	19	4	5½"	141.0	47	22
4"	102	11½"	292	9"	228.6	7½"	190.5	15/16"	23.8	¾"	19	8	6¾"	162.0	82	37
6"	152	14"	356	11"	279.4	9½"	241.3	1"	25.4	7/8"	22	8	8½"	211.0	157	71
8"	203	19½"	495	13½"	343.0	11¾"	298.5	1⅛"	28.6	7/8"	22	8	10⅝"	270.0	303	138
10"	254	24½"	622	16"	406.0	14¼"	362.0	1⅜"	30.2	1"	25	12	12⅞"	316.0	471	214
12"	305	27½"	699	19"	483.0	17"	432.0	1¼"	31.8	1"	25	12	14⅞"	357.0	550	250

