

DATE SUBMITTED 11/22/2021
 SUBMITTED BY Public Services
 DATE ACTION REQUIRED 12/01/2021

COUNCIL ACTION ()
 PUBLIC HEARING REQUIRED ()
 RESOLUTION ()
 ORDINANCE 1ST READING ()
 ORDINANCE 2ND READING ()
 CITY CLERK'S INITIALS em

**IMPERIAL CITY COUNCIL
 AGENDA ITEM**

SUBJECT: Check Valves for WTP DISCUSSION/ACTION: 1. Discuss, Approve/Disapprove purchase of equipment parts for booster station maintenance	
DEPARTMENT INVOLVED: Public Services - Water	
BACKGROUND/SUMMARY: Requesting to purchase 12" check valves for Water Treatment Plant Booster station that is critical to plant and distribution operations.	
FISCAL IMPACT: \$20,163.19 Imperial Pipe & Steel Supply	FINANCE INITIALS <u>AS</u>
STAFF RECOMMENDATION: Approve	DEPT. INITIALS <u>AS</u>
MANAGER'S RECOMMENDATION: <u>approve</u>	CITY MANAGER'S INITIALS <u>DHM</u>
MOTION:	
SECONDED:	
AYES:	APPROVED ()
NAYES:	DISAPPROVED ()
ABSENT:	REFERRED TO:
REJECTED () DEFERRED ()	



IMPERIAL

PIPE AND STEEL SUPPLY
264 W. Main Street, El Centro CA 92243

ESTIMATE # E73985

Date 11/15/2021

Quote Date 11/15/2021
 Expires 11/20/2021
 Ordered By EDGAR SELF
 Memo 12" 150 SILENT CHECK
 Writer Victor Celaya
 Sales Rep Victor Celaya
 Subsidiary Imperial Pipe and Steel
 Location El Centro
 Terms Net 30
 FOB
 Ship Date 11/15/2021
 Shipping Method
 Total Item Weight

Quoted to
 CITY OF IMPERIAL
 420 S IMPERIAL AVE
 imperial California 92251-1637

Ship To
 CITY OF IMPERIAL
 420 S IMPERIAL AVE
 imperial California 92251-1637

12" 150 SILENT CHECK

QTY	U/M	Description	Whs	T Weight	Price	Extension
4	EA	12" 150 FLOWMATIC GLOBE STYLE SILENT CHECK Model 402BT2 / 2248BT --WEIGHT 330LBS-- -- FACE X FACE 14 1/2" --	El Centro		4,523.832	18,095.33
1		Shipping THIS CAN SHIP PP&A OR YOUR PREFERRED CARRIER * THIS RATE IS SUBJECT TO FINAL FREIGHT COMPANY CONFIRMATION	El Centro		0.00	575.00

ETA 8-10 WEEKS ARO SHIPPING FROM FACTORY
 THANK YOU,

Subtotal 18,670.33
 Tax Total(8.25%) 1,492.86
 Total \$20,163.19

DUE TO THE UNCERTAINTY OF INTERNATIONAL TRADE RELATIONS AND SPORADIC CHANGES IN STEEL PRICING, IPSS IS ONLY ABLE TO HOLD QUOTED PRICING BY 2 DAYS UNLESS OTHERWISE NOTED
 *****ALL PRICES ARE SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTICE!!*****

*****ALL MATERIAL IS SUBJECT TO PRIOR SALE*****

PRICING IS BASED ON ALL ITEMS QUOTED. PARTIAL ORDERS ARE SUBJECT TO PRICE CHANGE. NO RETURNS WILL BE ACCEPTED AFTER 30 DAYS. ONLY ITEMS ON AN RMA ACKNOWLEDGEMENT WILL BE ACCEPTED. THERE ARE NO RETURNS ON SPECIAL ITEMS. SPECIALS INCLUDE ITEMS THAT ARE MACHINED OR ALTERED IN SOME WAY FROM THEIR ORIGINAL FORM, OR ITEMS THAT HAVE AN INTERNAL LINING OR HAVE EXTERNAL COATING, OR ANY NON-STOCKING ITEM. THERE IS A MINIMUM 25% RESTOCKING CHARGE ON ALL STOCKING ITEMS. IF AN ORDER IS CANCELLED PRIOR TO SHIPMENT THERE IS A MINIMUM 15% CANCELLATION CHARGE. ALL MATERIAL RETURNED MUST BE IN ITS ORIGINAL AND RESELLABLE CONDITION. ALL MATERIAL MUST BE RETURNED WITHIN 60 DAYS OF THE ORIGINAL INVOICE DATE. NO INFORMATION INCLUDED ON THIS QUOTE MAY BE SHARED WITH ANY THIRD PARTY. MATERIAL QUOTED AND/OR SOLD BY SELLER IS NOT TO BE SHIPPED OR TRANS-SHIPED INTO THE FOLLOWING COUNTRIES: CUBA, IRAN, NORTH KOREA, SUDAN, AND SYRIA. TERMS AND CONDITIONS OF SALE SHALL GOVERN AND CONTROL THE SALE OF ANY GOODS/SERVICES AND ARE LOCATED AT WWW.IMPERIALPIPEANDSTEELSUPPLY.COM



E73985



Operation:

Flomatic 402 silent check valves are normally installed downstream of a pump. Upon pump shut down the spring loaded valve is designed to close before reversal of flow. This will prevent flow reversal slam, which helps to eliminate water hammer and system surges associated with valve closure. On start-up, the water forces the poppet open and allows water to pass thru the valve. On shut-down the spring closes the poppet to prevent the flow reversal. The only moving parts are the poppet and spring, with the bushing guiding the poppet stem for even seating.

Installation:

Installation must be performed by qualified, licensed personnel only.

Remove all packing materials from the valve, including the tabs that stop seat from getting damaged during shipping.

The Flomatic 402 silent check valve can be installed vertically (flow up) or horizontally. Consult factory for vertical flow down. The valve must be installed with the flow arrow on the tag pointing in the direction of flow. Three diameters of straight pipe upstream of the valve are recommended to prevent turbulent flow thru the valve which will cause vibration and wear. Valves **must** be mounted between ANSI B16.5 flat face flanges with 1/16 min thickness ring gaskets. Never lift the valve by the bronze or stainless steel trim. Hand tighten, then torque the bolts using the cross-over flange bolt tightening method. This will load the bolts evenly and help eliminate concentrated stresses.

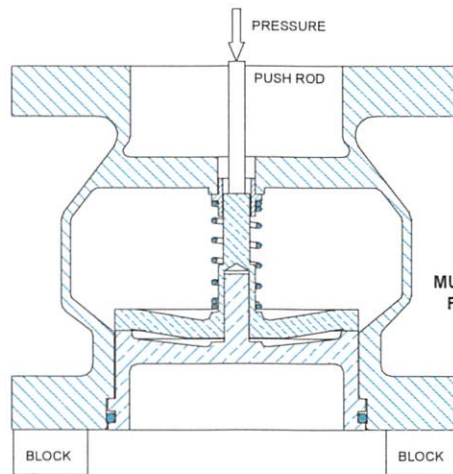
125 / 150# Flange			250 / 300# Flange		
Valve Size	Bolt Diameter	Bolt Torque	Valve Size	Bolt Diameter	Bolt Torque
2	5/8	25-75	2	5/8	25-75
2.5	5/8	25-75	2.5	3/4	25-75
3	5/8	25-75	3	3/4	35-75
4	3/4	30-90	4	3/4	50-150
5	3/4	30-90	5	3/4	70-150
6	3/4	30-90	6	3/4	70-150
8	3/4	40-120	8	7/8	90-200
10	7/8	45-150	10	1	110-300
12	7/8	65-200	12	1-1/8	160-450

Maintenance:

The Flomatic 402 silent check valve should be serviced yearly by a qualified and licensed person only. The valve should be isolated and the pressure in the line needs to be relieved on both sides of the valve. The outlet flange should be loosened first, then the inlet flange can be loosened to relieve line pressure. After the valve is removed inspect the internal parts and valve body for wear or damage. Any worn or damaged parts should be replaced.

Disassembly / Reassembly:

The Flomatic 402 silent check valve can be disassembled by placing the valve arrow up on at least two 2 x 4 boards, making sure that the seat ring is not covered so it can drop from the valve body freely. Make sure that the internals will drop on a surface that will not damage them. Hold a metal rod on the top of the stem. It should cover the stem only, not the bushing. Hit the rod with a hammer, and the seat, poppet, spring and bushing will drop out of valve. See illustration on the next page.



WARNING:
DO NOT LIFT VALVE BY
THE SEAT RING SPOKES
MUST BE ASSEMBLED WITH A
FLANGE AND A FULL FACE
GASKET ON BOTH ENDS

Patent No. 6,024,121

To reassemble the valve place on a flat surface with the arrow facing down and the inlet side exposed. Place the bushing in the center hole of the spokes. Place the spring on the top of the bushing and the poppet stem thru the spring and bushing. Make sure to lubricate the seat ring O-ring (this is very important to prevent damage to the o-ring which will cause a leak, and not let the seat enter the valve). We recommend using Super Lube – which is NSF approved. Make sure to place the seat ring into the valve lining up the poppet stem thru the bushing. Using both hands press on the seat ring to pop it back in. On the larger size valves a 2 x 4 can be placed across the seat ring and hit with a hammer to pop it back in.

Trouble Shooting Guide	
Problem:	Possible Solutions:
Valve chatters or vibrates	Make sure the velocity is at least 4 feet per second. Noise that sounds like rocks in the line can be cavitation from high velocities, or low downstream pressure. Make sure there is 3 diameters of straight pipe upstream.
Valve leaks	If the seat ring is lifted above the flange face – the mating flange and gasket are not seated correctly. Re-align the valve and gaskets and tighten the bolts according to the torque chart. Also make sure that the correct size gaskets are being used.
Water does not flow thru valve	Check to make sure the arrow is in the direction of flow. Verify that the downstream isolation valve is open and there is no blockage preventing flow.
Valve Slams	Remove the valve from the line from line and check the spring. Replace worn or damaged spring. If necessary consult the factory about purchasing a heavier spring for your conditions.

Information needed to order repair parts:

Valve Model Number

Valve Size

Valve working Pressure

Limited One Year Warranty: Flomatic valves are guaranteed against defects of material or workmanship when used for the services recommended. If, in any recommended service a defect develops due to material or workmanship, and the device is returned, freight prepaid, to Flomatic Corporation within 12 months from date of purchase, it will be repaired or replaced free of charge. Flomatic Corporations' liability shall be limited to our agreement to repair or replacement of valve only.

Globe Style

Silent Check

Model 402BT

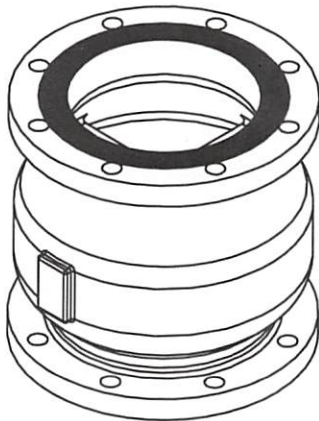
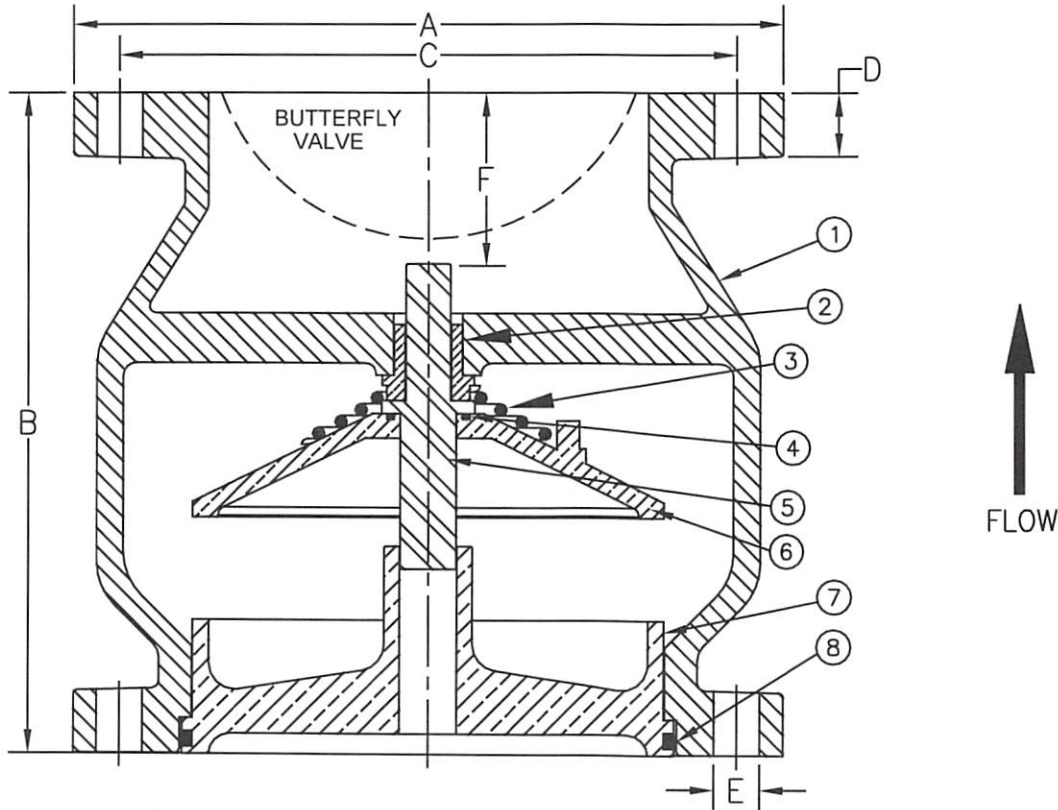


Sizes 8" Thru 10" / 200 mm Thru 250 mm
150# Flange

Flomatic Corporation



Materials



Item #	Qty	Description	Material	ASTM
1	1	Body (Epoxy Coated)	Ductile Iron	A536 65-45-12
2	1	Bushing	Bronze	C95400
3	1	Spring	Stainless Steel	302
4	1	O'ring	EPDM	5778-70
5	1	Stem	Stainless Steel	316
6	1	Poppet	Silicone Brass	C87800
7	1	*Seat Ring	Bronze	C89833
8	1	O-Ring	EPDM	5778-70

*OPTIONAL RESILIENT SEAT AVAILABLE, ADD "R" TO THE PART NUMBER

Max Temp 200°F (93°C)

Max Inlet Pressure @ 150° F (65°C) 150# 300 psi (21bar)

MSS SP-125 Compliant

PATENT # 6,024,121

Dimensions (150# Ansi B16.42 Flanges)

Size		Part #	ØA		B		ØC		D		ØE		F		Weight		Bolt Size	# of Bolts
inch	mm		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg		
8	200	2245BT	13-1/2	343	12-9/16	319	11-3/4	299	1-1/8	29	7/8	22	3-1/4	83	116	53	3/4	8
10	250	2247BT	16	406	15-1/2	394	14-1/4	362	1-3/16	30	1	25	4-1/4	108	194	88	7/8	12

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April 5, 1995
Dwg No: S402BT-2 Rev: R (4/20)

FLOMATIC CORPORATION
GLENS FALLS, N.Y. 12801
PHONE (518) 761-9797
FAX (518) 761-9798



FLOMATIC[®] VALVES

High Quality Valves Built To Last...



SILENT CHECK VALVES GLOBE & WAFER STYLE

WAFER STYLE SERIES 888

GLOBE STYLE SERIES 402

Manufacturer under certified ISO 9001-2015 and
ISO 14001-2015 quality and environmental systems

WAFER STYLE **SERIES 888**

The Model 888 is a patented design constructed of an epoxy coated ductile iron or 316 stainless steel body. The valves are designed for simple flanged supported installation and will operate equally well in any position. Dual rated for flanged ANSI 150# and 300# mounting (except 8" and 10" sizes). An EPDM rubber seal is standard in all sizes. Metal-To-Metal seating is optional, simply remove "R" from the end of the part number.

OPERATION

The double guided spring loaded poppet system maximizes efficiency and reduces water hammer. Easy field exchangeable internal system.

APPLICATIONS

- Booster Pump Systems
- General Utilities
- Industrial
- Food Processing
- Municipal Water
- Irrigation
- HVAC



TEMP MAX: 200°F (93°C) - Higher Temp Available
Contact Factory



ANSI 150#: MAX PRESSURE 300 PSI at 150°F
ANSI 300#: MAX PRESSURE 500 PSI at 150°F
Consult Factory for Pressure Rating Standards

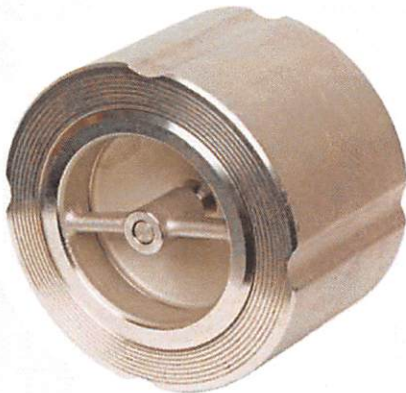
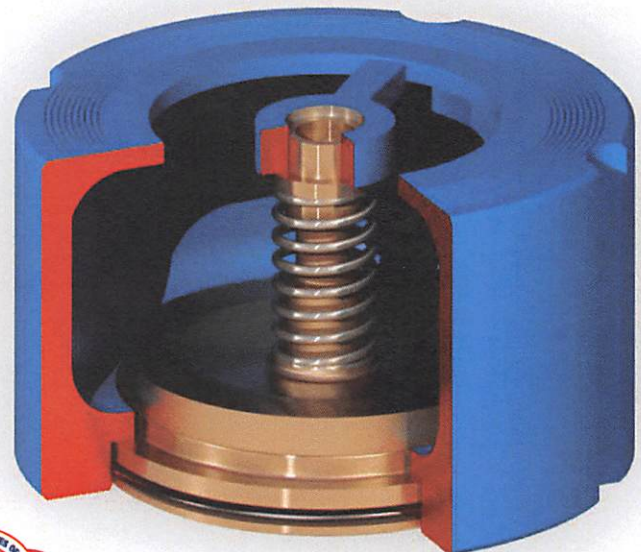


SIZES: 2" THRU 10"



FEATURES & BENEFITS

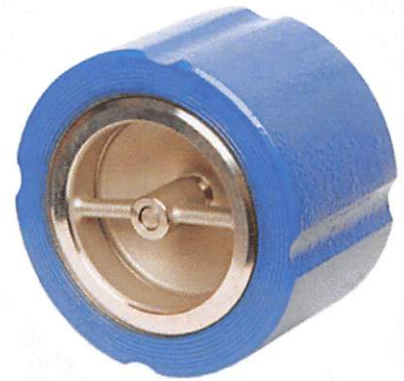
- LOW HEADLOSS
- MINIMIZES WATER HAMMER
- 100 % FUSION BONDED EPOXY COATED
- DUCTILE IRON BODY STANDARD, 316 STAINLESS OPTIONAL
- DRIP-TIGHT RESILIENT SEATING WITH SEAL
- EPDM SEAT STANDARD
- NSF/ANSI 61 AND NSF/ANSI 372
- MEETS MSS-SP 125
- AIS MODELS AVAILABLE - CONSULT FACTORY



MODEL 888S6R/888S6
SIZES 2"- 8"
ALL 316SS CONSTRUCTION



MODEL 888R/888
SIZES 2"- 10"
100% FUSION BONDED EPOXY COATED
WITH BRONZE INTERNALS

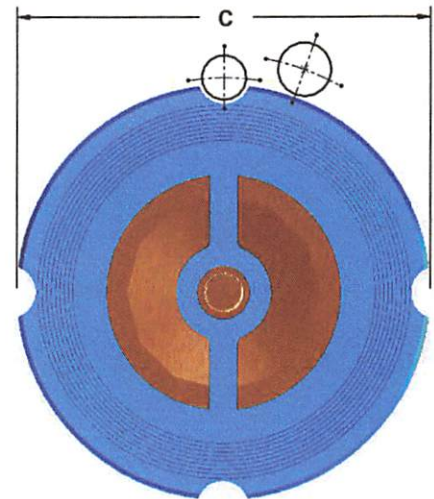
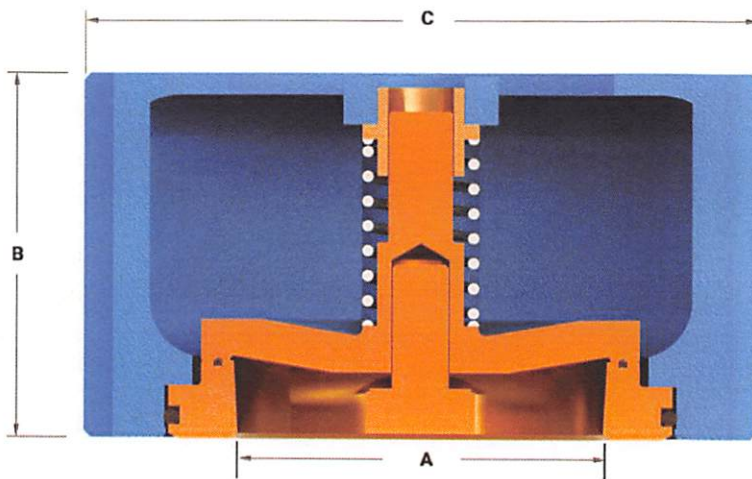


MODEL 888STR/888ST
SIZES 2"- 8"
100% FUSION BONDED EPOXY COATED
WITH 316 SS INTERNALS

MATERIALS OF CONSTRUCTION

SERIES 888 OPTIONS

MODEL	SIZES	TYPE	BODY MATERIAL	SEAT TRIM	SEAT
888R	2" - 10"	Standard	DUCTILE IRON ASTM A536	UNLEADED BRONZE C87800	EPDM
888	2" - 10"	Optional	DUCTILE IRON ASTM A536	UNLEADED BRONZE C87800	METAL
888STR	2" - 8"	Optional	DUCTILE IRON ASTM A536	316 SS ASTM CF8M	EPDM
888ST	2" - 8"	Optional	DUCTILE IRON ASTM A536	316 SS ASTM CF8M	METAL
888S6R	2" - 8"	Standard	316 SS ASTM CF8M	316 SS ASTM CF8M	EPDM
888S6	2" - 8"	Optional	316 SS ASTM CF8M	316 SS ASTM CF8M	METAL



DIMENSIONS

VALVE SIZE	888R PART#	888STR PART#	888S6R PART#	A		B		C		WEIGHT	
				INCH	MM	INCH	MM	INCH	MM	LBS	KG
2"	2434R	2434STR	2434S6R	2 13/32"	61	2 5/8"	67	4 1/4"	108	5	2.5
2 1/2"	2432R	2432STR	2432S6R	2 9/16"	65	2 7/8"	73	5"	127	7	3
3"	2435R	2435STR	2435S6R	3 1/4"	83	3 1/8"	79	5 3/4"	146	11	5
4"	2436R	2436STR	2436S6R	4 3/8"	111	4"	102	7"	178	18	8
5"	2433R	2433STR	2433S6R	5 1/4"	133	4 3/4"	121	8 3/8"	213	25	11.5
6"	2437R	2437STR	2437S6R	5 29/32"	150	5 1/2"	140	9 3/4"	248	36	16.5
8"*	2438R*	2438STR*	2438S6R*	8 7/32"	209	6 1/2"	165	13 3/8"	340	80	36
8"***	2438-2R**	2438-2STR**	2438-2S6R**	8 11/32"	209	6 1/2"	165	13 5/8"	340	85	39
10"*	2439R*	-	-	10 7/64"	257	8 1/4"	210	16"	406	129	59

REMOVE "R" FROM END OF PART NUMBER FOR METAL SEAT

*ANSI 150 ONLY

**300# FLANGED DIMENSIONS

WAFER STYLE **SERIES 888VFD**

The Model 888VFD is a patented silent wafer style check valve. The spring loaded valve begins to close as flow is reduced and fully closes at zero velocity stopping reverse flow, thus helping to reduce water hammer shock.

The unique poppet design insures that the valve operates quietly and efficiently across a wide range of flow velocities. Ideally designed for installations with varying flow rates in VFD controlled booster pump systems, as well as non vfd systems.

The Model 888VFD has a 100% fusion bonded epoxy coated ductile iron body, while the Model 888S6VFD is an all 316 stainless steel design. Both Models feature a 316 Stainless steel poppet and seat with an EPDM seat standard.

OPERATION

The Model 888VFD is designed to minimize flow losses and hydraulic shocks in the pump system. The patented spring loaded poppet system features an oversized bushing which provides stability and quiet and efficient operation regardless of flow rate. Additionally, the patented design allows for direct mounting of a butterfly valve on the discharge side with no poppet/disc interference (2" - 6" sizes).

APPLICATIONS

- Booster Pump Systems
- VFD controlled Pumps
- Food Processing
- Irrigation
- Municipal Water
- Power Generation
- Industrial



TEMP MAX: 200°F (93°C) - Higher Temp Available
Contact Factory



ANSI 150#: MAX PRESSURE 300 PSI at 150°F
ANSI 300#: MAX PRESSURE 500 PSI at 150°F
Consult Factory for Pressure Rating Standards

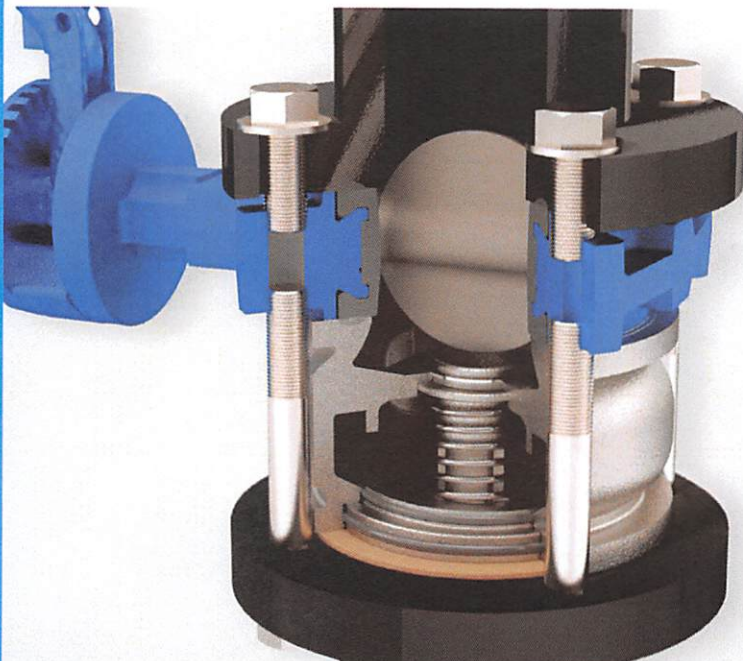
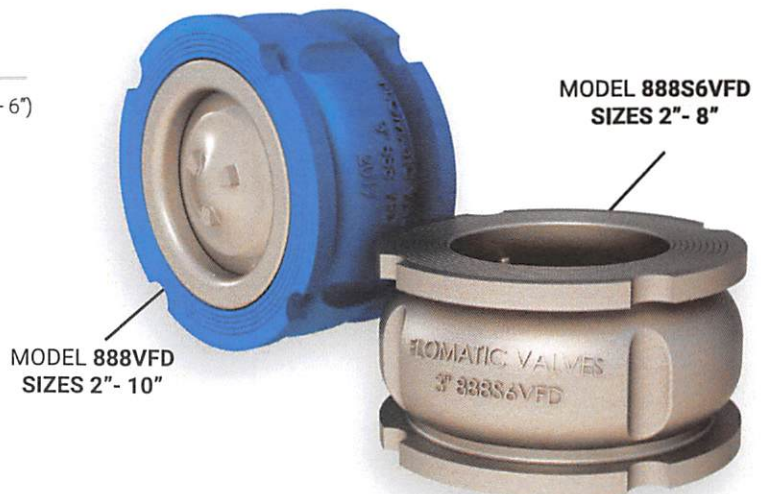


SIZES: 2" THRU 10"



FEATURES & **BENEFITS**

- SUITABLE FOR DIRECT MOUNTING OF BUTTERFLY VALVES (2" - 6")
- LOWER HEADLOSS
- 20% MORE FLOW THAN CONVENTION WAFER STYLE VALVES
- NO SET SCREWS
- EPDM O-RING SEAL - DRIP TIGHT CLOSURE
- REDUCES WATER HAMMER SHOCK
- DUCTILE IRON AND 316SS MODELS
- 316 STAINLESS STEEL INTERNALS STANDARD
- NSF/ANSI 61 AND NSF/ANSI 372
- MEETS MSS-SP 125



COMPACT **INSTALLATION**

The new Flomatic Model 888VFD Wafer Check Valves can be close coupled with a Butterfly valve without a spool piece.

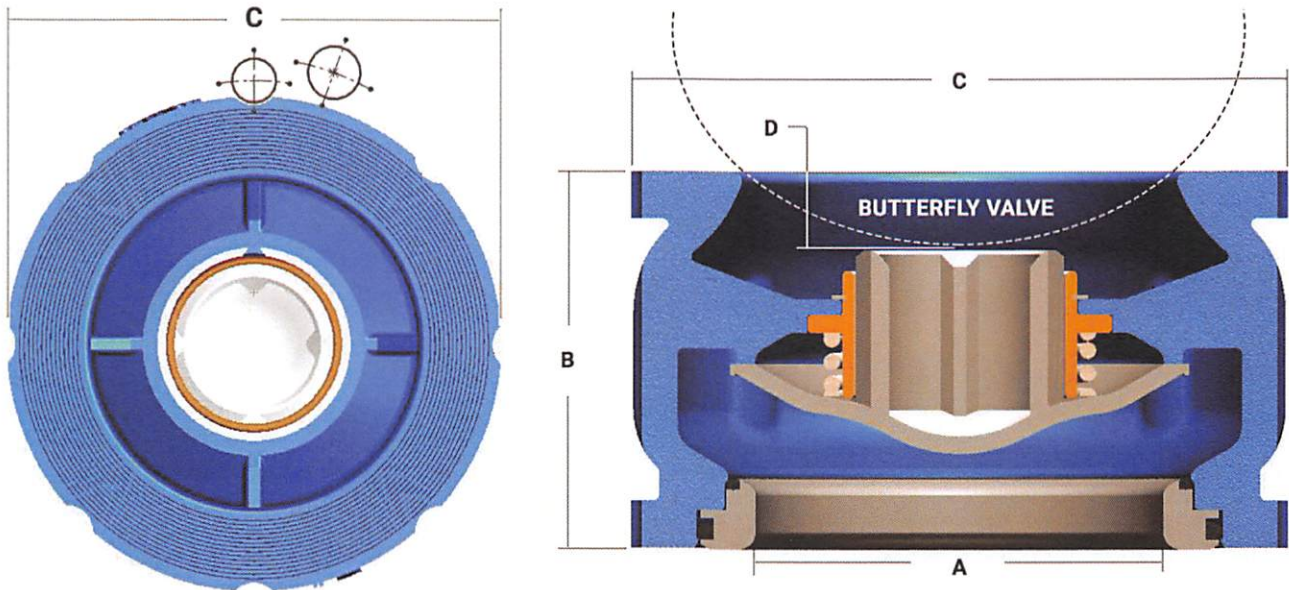
The Butterfly valve can be operated with the check valve in an "open" or "closed" position with no interference in 2" thru 6" sizes. The overall installation length is much shorter than a traditional combination of a wafer style check valve, butterfly valve, and spool piece.

A traditional Wafer Check valve cannot be close coupled with a Butterfly valve without a spacer or spool piece, longer bolts and additional flange gasket. This spool piece adds weight, takes up more space, parts and installation expense.

MATERIALS OF CONSTRUCTION

SERIES 888 VFD OPTIONS

MODEL	SIZES	TYPE	BODY MATERIAL	SEAT TRIM	SEAT
888VFD	2" - 10"	STANDARD	DUCTILE IRON ASTM A536	316 SS ASTM CF8M	EPDM
888S6VFD	2" - 8"	OPTIONAL	316 SS ASTM CF8M	316 SS ASTM CF8M	EPDM



DIMENSIONS

SIZE		PART #		A		B		C		D (OPEN)		WEIGHT	
Inch	mm	888VFD	888S6VFD	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Lbs	Kg
2"	50	2434VFD	2434S6VFD	2 ¹³ / ₃₂ "	61	2 ⁵ / ₈ "	67	4 ¹ / ₄ "	108	5 ¹ / ₆₄ "	20	4	2
2 1/2"	65	2432VFD	2432S6VFD	2 ⁴³ / ₆₄ "	68	2 ⁷ / ₈ "	73	5"	127	5 ⁷ / ₆₄ "	23	6	3
3"	85	2435VFD	2435S6VFD	3 ¹ / ₄ "	83	3 ¹ / ₈ "	79	5 ³ / ₄ "	146	3 ³ / ₄ "	19	9	4
4"	100	2436VFD	2436S6VFD	4 ¹ / ₄ "	108	4"	102	7"	178	1 ³ / ₆₄ "	27	16	7
5"	125	2433VFD	2433S6VFD	5 ¹ / ₄ "	133	4 ³ / ₄ "	121	8 ³ / ₈ "	213	1 ¹¹ / ₃₂ "	34	21	10
6"	150	2437VFD	2437S6VFD	5 ²⁹ / ₃₂ "	150	5 ¹ / ₂ "	140	9 ³ / ₄ "	248	1 ²⁷ / ₃₂ "	47	34	15
8"	200	2438VFD	2438S6VFD	8 ⁷ / ₃₂ "	209	6 ¹ / ₂ "	165	13 ³ / ₈ "	340	1 ³⁷ / ₆₄ "	40	75	34
10"	250	2439VFD	-	10 ⁷ / ₆₄ "	257	8 ¹ / ₄ "	210	16"	406	1 ²³ / ₃₂ "	44	131	59

GLOBE STYLE SERIES 402

Models 402BT and 402ST are ductile iron Globe Style Check Valves with fusion bonded epoxy coating and model 402S6 is constructed of all 316 stainless steel. The series 402 features ANSI B16.1 class 150# flanged connection and bronze or stainless steel poppet and seat with a stainless steel spring (2" - 12"). Optional EPDM rubber seat seal is available and recommended in all sizes, simply add "R" to the end of the part number.

OPERATION

The double guided spring loaded poppet system maximizes efficiency and reduces water hammer while preventing flow reversal. The stainless steel spring provides for long maintenance free operation.

APPLICATIONS

- Municipal Water
- General Utilities
- Power Generation
- Food Processing
- Industrial
- Irrigation
- HVAC



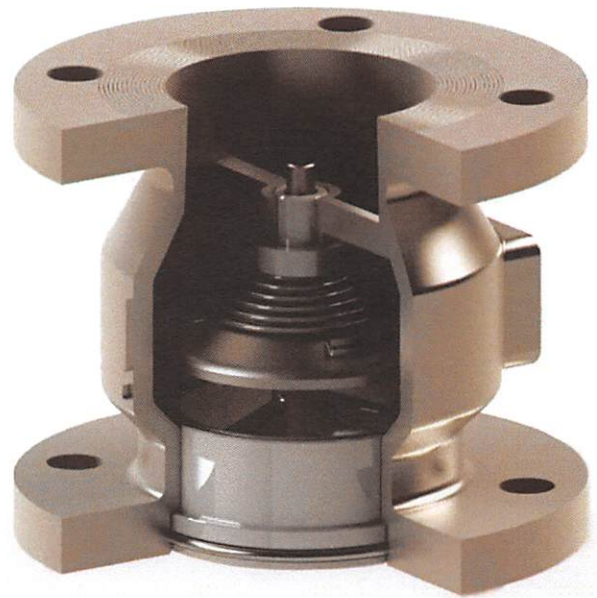
TEMP MAX: 200°F (93°C) - Higher Temp Available Contact Factory



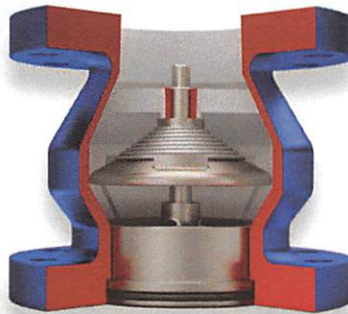
SIZES: 2" THRU 24"

FEATURES & BENEFITS

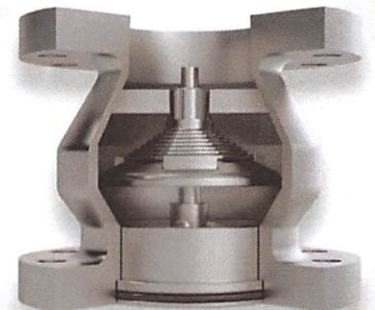
- MINIMIZES WATER HAMMER
- LOW HEADLOSS
- 100% FUSION BONDED EPOXY COATED
- LOW CRACKING PRESSURE
- NO INTERNAL SCREWS
- FIELD REPLACEABLE INTERNALS
- NSF/ANSI 61 AND NSF/ANSI 372
- MEETS MSS-SP 125
- AIS MODELS AVAILABLE (CONSULT FACTORY)



MODEL 402BT/402BTR
SIZES 2" - 24"



MODEL 402ST/402STR
SIZES 2" - 24"*
*10" SS trim inquire with factory



MODEL 402S6/402S6R
SIZES 2 1/2" THRU 12"*
*10" inquire with factory



Max Pressure 300 PSI at 150°F - Ductile Iron 2" - 12"
Max Pressure 250 PSI at 150°F - Ductile Iron 16", 20", 24"
Max Pressure 150 PSI at 150°F - Cast Iron 14" & 18"

Consult factory for pressure rating standards.



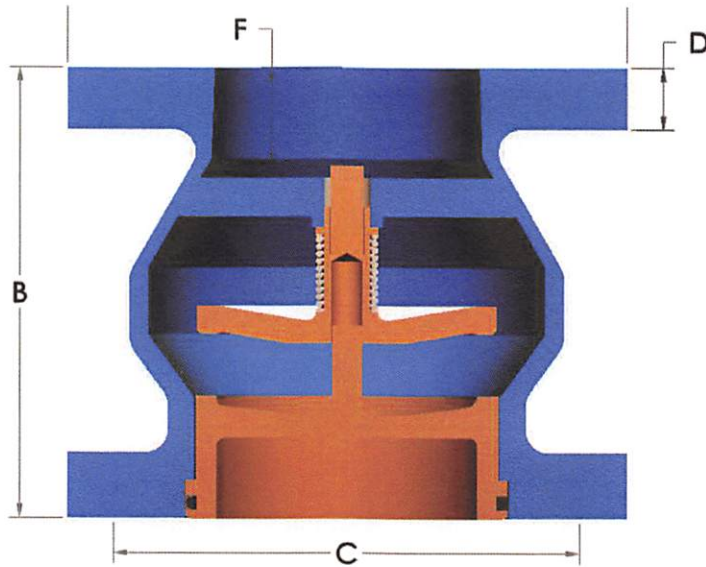
Max Pressure 275 PSI at 100°F
Consult factory for pressure rating standards.

MATERIALS OF CONSTRUCTION

SERIES 402 OPTIONS

MODEL	SIZES	TYPE	BODY MATERIAL	SEAT TRIM	SEAT
402BTR*	2" - 24"	OPTIONAL	DUCTILE IRON ASTM A536	UNLEADED BRONZE C87800	EPDM
402BT*	2" - 24"	STANDARD	DUCTILE IRON ASTM A536	UNLEADED BRONZE C87800	METAL
402STR*	2" - 24***	OPTIONAL	DUCTILE IRON ASTM A536	316 SS ASTM CF8M	EPDM
402ST*	2" - 24***	OPTIONAL	DUCTILE IRON ASTM A536	316 SS ASTM CF8M	METAL
402S6R	2" - 12***	STANDARD	316 SS ASTM CF8M	316 SS ASTM CF8M	EPDM
402S6	2" - 12***	OPTIONAL	316 SS ASTM CF8M	316 SS ASTM CF8M	METAL

* 14" & 18" sizes are cast iron
 ** 10" SS trim inquire with factory



DIMENSIONS

SIZE ØA		PART #	ØA		B		ØC		D		F (OPEN)		WEIGHT		BOLT SIZE	#OF BOLTS
INCH	MM		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	LBS	KG		
2"	50	2239BT	6"	152	5 1/4"	133	4 3/4"	121	5/8"	16	1 19/64"	33	13	6	5/8"	4
2 1/2"	65	2240BT	7"	178	5 1/2"	140	5 1/2"	140	11/16"	18	1 1/16"	27	18	8	5/8"	4
3"	80	2241BT	7 1/2"	191	6"	152	6"	152	3/4"	19	1 3/8"	35	23	10	5/8"	4
4"	100	2242BT	9"	229	7 1/4"	184	7 1/2"	191	15/16"	24	1 19/32"	41	40	18	5/8"	8
5"	125	2243BT	10"	245	8 1/2"	216	8 1/2"	216	15/16"	24	2"	51	51	23	3/4"	8
6"	150	2244BT	11"	279	9 3/4"	248	9 1/2"	241	1"	25	2 7/16"	62	75	34	3/4"	8
8"	200	2245BT	13 1/2"	343	12 9/16"	319	11 3/4"	299	1 1/8"	29	3 1/4"	83	116	53	3/4"	8
10"	250	2247BT	18"	457	15 1/2"	394	14 1/4"	362	1 3/16"	30	4 1/4"	108	194	88	7/8"	12
12"	300	2248BT	19"	483	14 1/2"	368	17"	432	1 1/4"	32	13/16"	21	306	139	7/8"	12
14"	350	2249BT	21"	533	15 3/4"	400	18 3/4"	476	1 3/8"	35	1 7/16"	37	380	172	1"	12
16"	400	2250STR	23 1/2"	597	17 5/8"	448	21 1/4"	540	1 7/16"	37	2 1/4"	57	500	227	1"	16
18"	450	2251BT	25"	635	18 3/4"	476	22 3/4"	578	1 9/16"	40	2 1/4"	57	724	328	1 1/8"	16
20"	500	2252STR	27 1/2"	699	20 5/8"	524	25	635	1 11/16"	43	2 15/16"	75	890	404	1 1/8"	20
24"	600	225STR	32"	813	24"	610	29 1/2"	749	1 7/8"	48	3 5/8"	92	1220	553	1 1/4"	20

ANSI MODELS AVAILABLE. CONSULT WITH FACTORY

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