

# **FLOMORE**

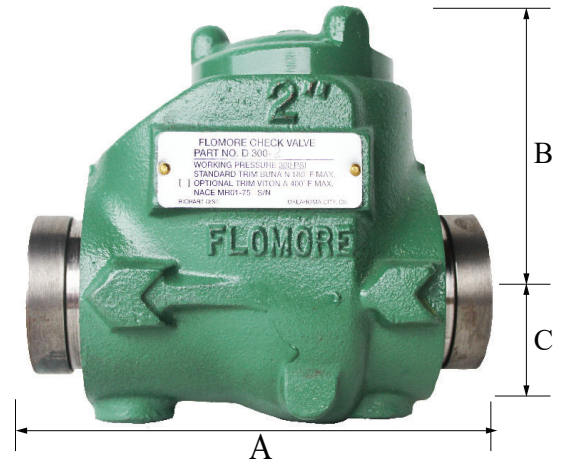
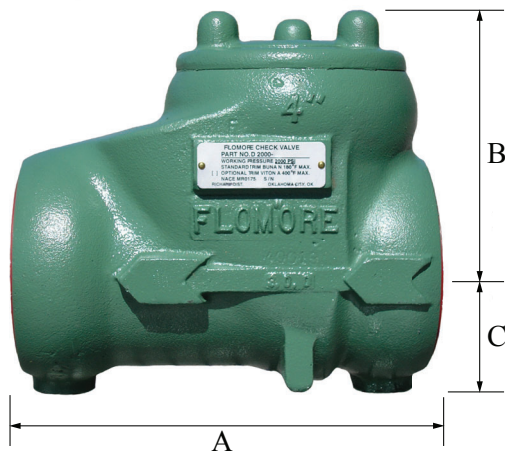
*Different By Design*

# *Check Valves*



# Swing Check Valves

## D Series / Screwed Bonnet Screwed End - Full Opening Ductile Iron Swing Checks



### Threaded Swing Checks

Working Pressure	Size			
	1"	2"	3"	4"
300#	D300-1	D300-2	D300-3	D300-4
600#	D600-1	D600-2	D600-3	D600-4
1000#	D1000-1	D1000-2	D1000-3	D1000-4
1500#	D1500-1	D1500-2	D1500-3	D1500-4
2000#	D2000-1	D2000-2	D2000-3	D2000-4

### Grooved End - Swing Check Valve

Working Pressure	2"	3"	4"
	300#	D300-2GE	D300-3GE
600#	D600-2GE	D600-3GE	D600-4GE
1000#	D1000-2GE	D1000-3GE	D1000-4GE
1500#	D-1500-GE	N/A	N/A
2000#	D2000-2GE	N/A	N/A



### Dimensions

Size	End	A	B	C	Flow Coefficient	Weight (lbs.)
1"	T	4.25	4.5	1.25	60	5
2"	T	6	4.25	1.75	240	11
2"	GE	7	4.25	1.75	240	13
3"	T	8	4.875	2.5	665	20
3"	GE	12.125	4.875	N/A	665	25
4"	GE	10.73	5.750	N/A	1300	37
4"	T	10	5.750	3.125	1300	33

T = Threaded End GE = Grooved End

### Parts List

Description	Size			
	1"	2"	3"	4"
Clapper Assembly	1CA	2CA	3CA	4CA
Clapper Seal	1CS	2CS	3CS	4CS
Bonnet Seal O'Ring	1CR	2CR	3CR	4CR

# Steel Swing Check Valves

## D Series / Screwed Bonnet Screwed End - Full Opening Steel Swing Checks



## Steel Swing Checks

### Material Specifications

Part	Size	WCB Steel
Clapper	1"	WCB Steel
		316 Stainless Steel (opt.)
Clapper	2"	WCB Steel
		316 Stainless Steel (opt.)
Clapper	3" & 4"	Ductile Iron
Clapper Seal	1" - 4"	Buna-N (180°F Max)
		Viton (400°F Max) (opt.)
Bonnet Seal O'Ring	1" - 4"	Buna-N (180°F Max)
		Viton (400°F Max) (opt.)

\*NACE materials per MR-01-75 are standard on all valves

### Valve Numbers

Size	Weight (lbs.)	Flow Coefficient	Working Pressure	Model Number
1"	7	60	720#	S703-720-1
			1440#	S1503-1440-1
			1500#	S1503-1500-1
			2000#	S2003-2000-1
			3000#	S3003-3000-1
			3600#	S3603-3600-1
2"	16	240	5000#	S5003-5000-1
			2000#	S2003-2000
			2160#	S2003-2160
			3000#	S3003-3000
			3600#	S3603-3600
			*5000#	S5003-5000

\*Max working pressure on S5003-5000 is 5000lbs

# Ball Check Valves

## Features:

- Replaceable resilient seal with secondary metal-to-metal seal
- Nominal flow restriction
- Can be installed horizontal and vertical
- No ball spring
- Minimum parts wear from low flow rates or pulsating service

## Warning:

**DO NOT WRENCH ON THIS SURFACE.**

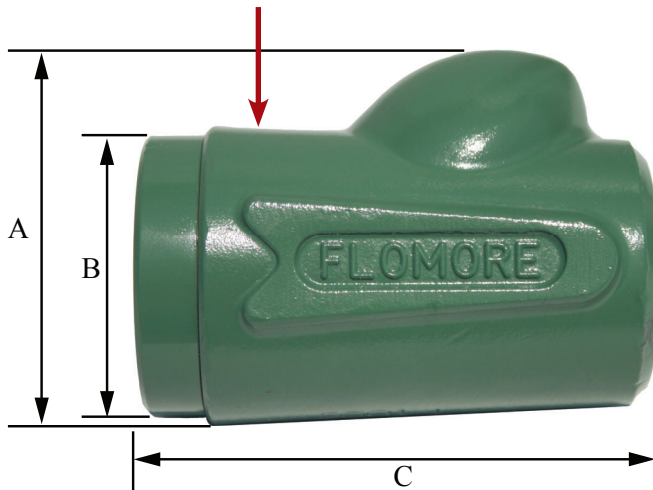
**You will break the seal between the body & cover.**

**(surface marked by red arrow)**

## Steel and Stainless Steel Ball Checks

### Valve Numbers

Working Pressure (lbs.)	Material	Size		
		½"	1"	2"
2000	Steel	◆	2001-1	2001CS-2
	Stainless Steel	2001S-.5	2001S-1	2001S-2
3000	Steel	◆	3001-1	3001CS-2
	Stainless Steel	3001S-.5	3001S-1	3001S-2
5000	Steel	◆	5001-1	5001CS-2
	Stainless Steel	5001S-.5	5001S-1	5001S-2



## Performance Ratings

- Valve design rating: 5,000 lb **MAXIMUM** working pressure
- Maximum temperature
  - Buna Seat 180 degrees
  - Viton Seat 400 degrees

## Materials

Part	Material
Body	ASTM A 216 WCB
End Cover	ASTM A 108
Ball	AISI 440C SS
Seat	Buna or Viton
Seat Backing	303 SS

## Dimensions

Size	A	B	C	Weight (lbs.)
½"	3.06	2.375	4.208	7
1"	3.06	2.375	4.208	5
2"	4.88	3.205	6.375	16

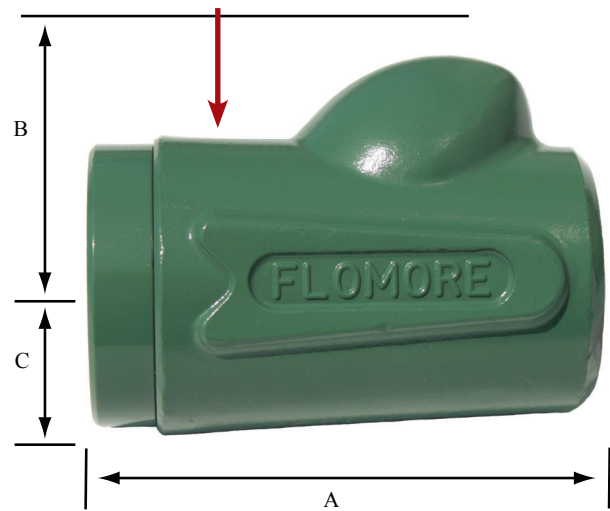
# Ball Check Valves

## DBC Series / End Entry Ductile Iron Ball Checks

### Valve Numbers

Working Pressure (lbs.)	Size		
	1/2"	1"	2"
1000	1031-DBC-.5	1031-DBC-1	1031-DBC-2
1500	1531-DBC-.5	1531-DBC-1	1531-DBC-2
2000	2031-DBC-.5	2031-DBC-1	2031-DBC-2

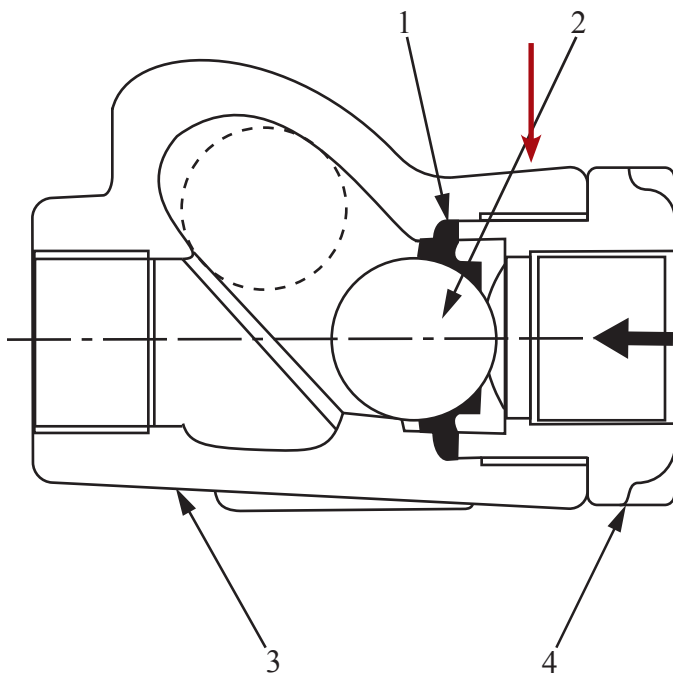
### Dimensions



Size	A	B	C	Weight (lbs.)
1/2"	4.5	2	1.25	4
1"	4.5	2	1.25	4
2"	6	3	1.875	13

### Flow Coefficients

Size	CV
1"	30
2"	105



### Parts List

Item #	Description	Material	Size		
			1/2"	1"	2"
1	Seal Assembly	Buna-N (180°F Max)	20205F	20205F	30349F
		Viton (400°F Max.)	20262F	20262F	30423F
2	Ball	440 Stainless Steel	10186F	10186F	10194F
3	Body	Ductile Iron	♦	♦	♦
4	Cap	Ductile Iron	♦	♦	♦

\*We also offer cold weather seals to minus 400 Degrees Fahrenheit

# Line Check Valves

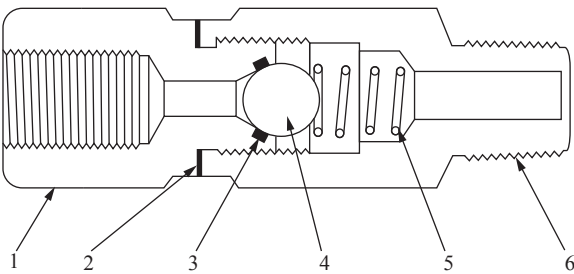
## Valve Numbers

Connection Size	Connection Type	Part #	Working Pressure (lbs.)	Material	Weight (lbs.)	Pressure to Open
1/8"	M x F	A-0672	3000	Brass	0.25	30 psi
		TE-0018	6000	303 Stainless Steel	0.25	30 psi
1/4"		A-0676	3000	Brass	0.25	30 psi
		A-0675	6000	303 Stainless Steel	0.25	30 psi
		A-1302	10,000	303 Stainless Steel	0.35	30 psi
		F x F	A-0680	6000	303 Stainless Steel	0.25

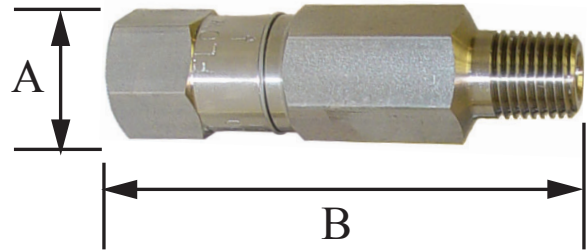
Optional Heavy Spring = 100 psi

Optional Light Spring = 16 psi

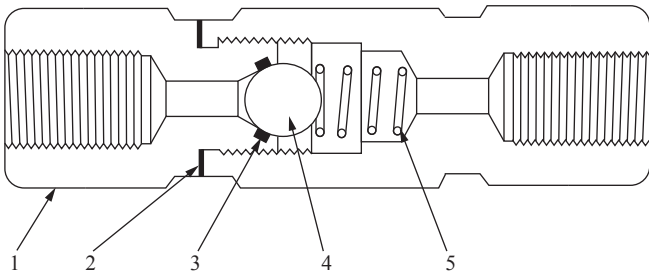
## M x F Line Checks



## Dimensions



## F x F Line Check



Valve Number	A	B
A-0672	3/4"	2 7/8"
TE-0018	3/4"	2 7/8"
A-0676	3/4"	2 7/8"
A-0675	3/4"	2 7/8"
A-0680	3/4"	2 7/8"

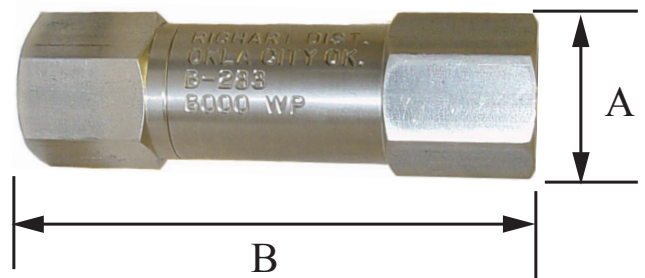
## Parts List

Item #	Part #	# Reqd.	Description	Material
1	A-0678	1	Inlet Body	Brass
	A-1297	1	Inlet Body	303 Stainless Steel
2	A-1574	1	Washer	304 Stainless Steel
3	A-0479	1	O-Ring	Buna-N
	A-2580	1	O-Ring	Viton
4	A-0054	1	3/8" Ball	316 Stainless Steel
5	A-0391	1	Spring	316 Stainless Steel
6	A-0679	1	Outlet Body	Brass
	A-1296	1	Outlet Body	303 Stainless Steel

\* Recommended Spare Parts

\*\*A-0675 Only

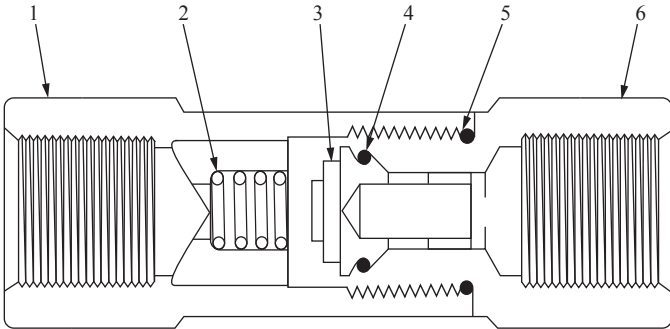
\*\*\*A-0676 Only



Valve Number	A	B
B-0283	1 1/8"	3 7/8"
B-1288	1 1/2"	3 7/8"

# Line Check Valves

## B-0283 & B-1288 Line Checks



### Parts List

Item #	Part #	# Reqd.	Description	Material
1	B-0271	1	Body	303 Stainless Steel
2	A-0391	1	Spring	316 Stainless Steel
3	A-1879	1	Valve	303 Stainless Steel
4	A-0612	1	O-Ring	Buna-N
	A-2184	1	O-Ring	Viton
5	A-1959	1	O-Ring	Buna-N
	A-3979	1	O-Ring	Viton
6	A-1880	1	Bushing	303 Stainless Steel

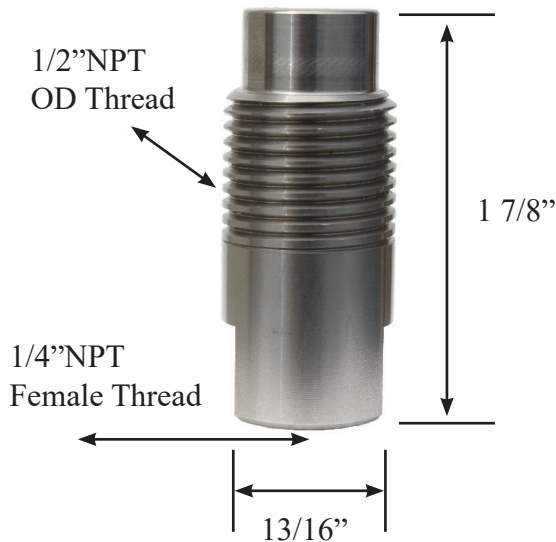
\* Recommended Spare Parts

### Valve Numbers

Connection Size	Connection Type	Part #	Working Pressure (lbs.)	Material	Weight (lbs)	Pressure to Open
1/2"	F x F	B-0283	6000	303 Stainless Steel	3/4	16 psi
		B-1288	15000	303 Stainless Steel	1 1/2	16 psi

# Atomizing Nozzle

## 1/4LND-1P Dimensions



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