

FLOMORE

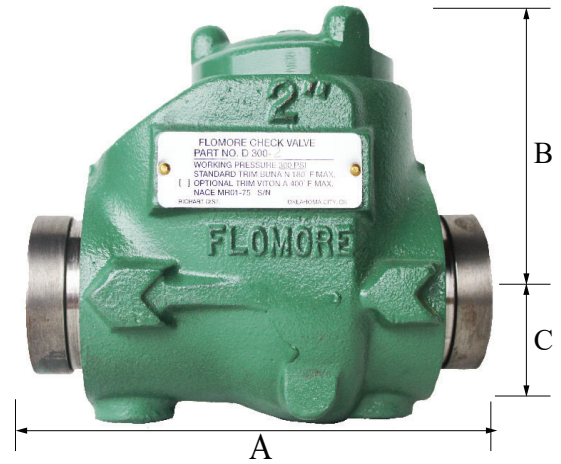
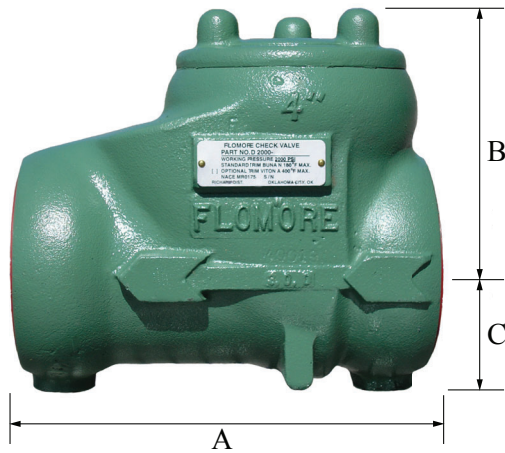
Different By Design

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.

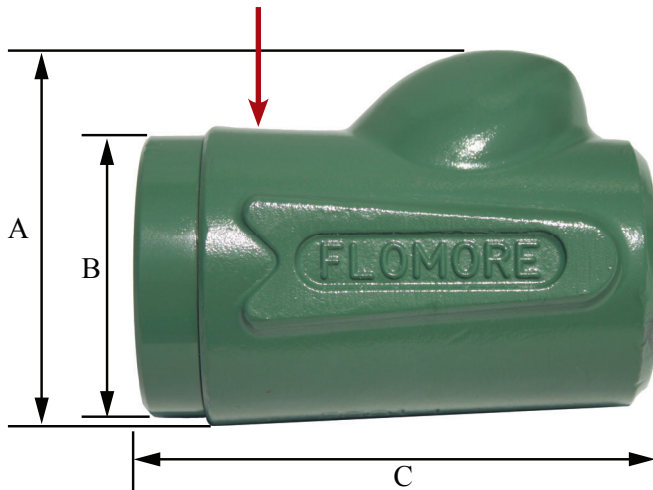
You will break the seal between the body & cover.

(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

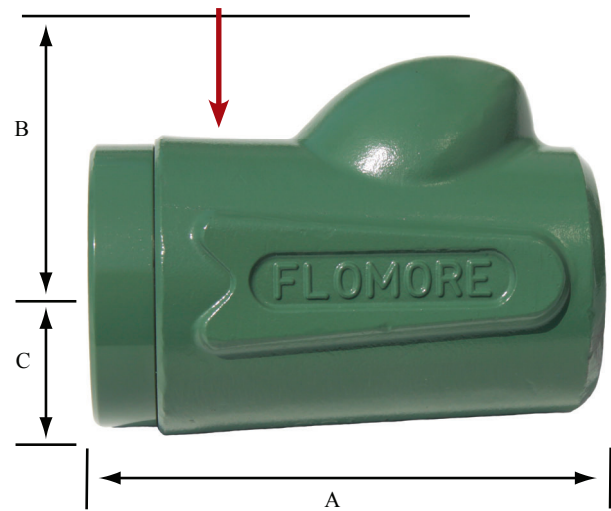
Ball Check Valves

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

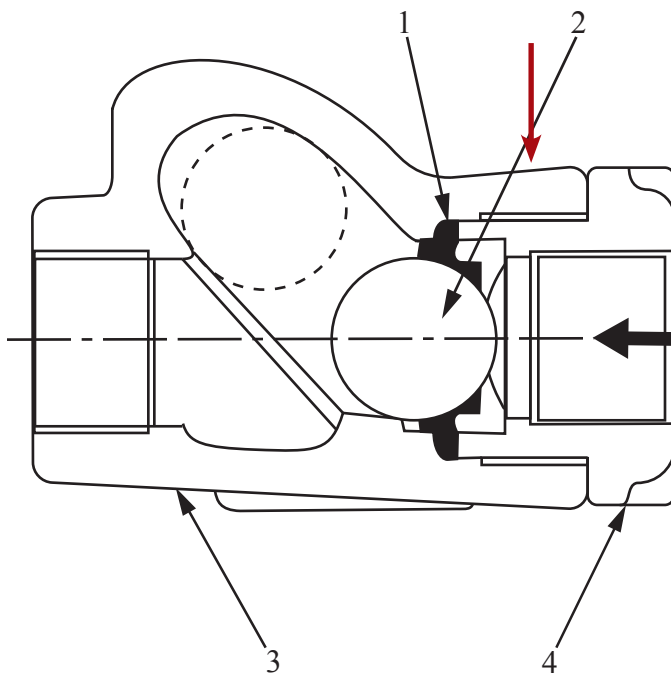
Dimensions



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

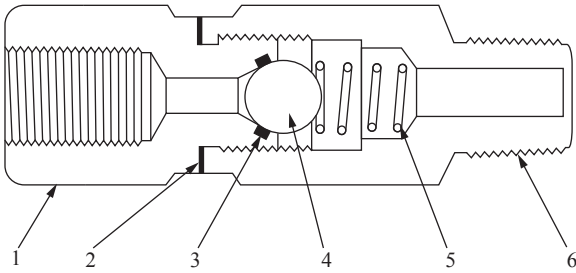
Valve Numbers

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

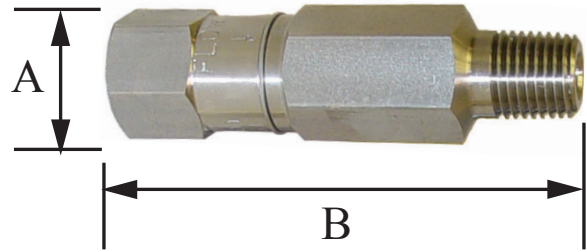
Optional Heavy Spring = 100 psi

Optional Light Spring = 16 psi

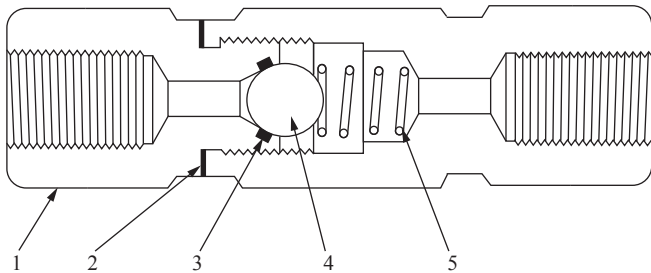
M x F Line Checks



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"

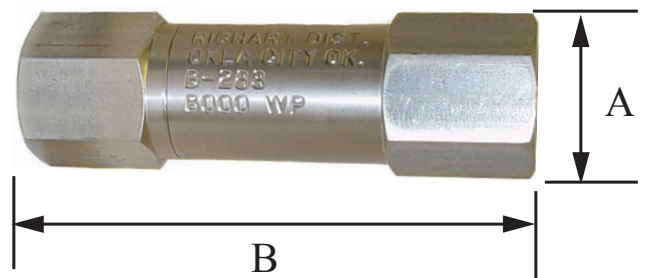
Parts List

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

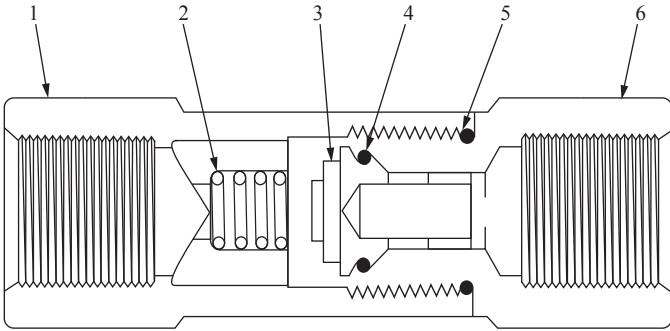
***A-0676 Only



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

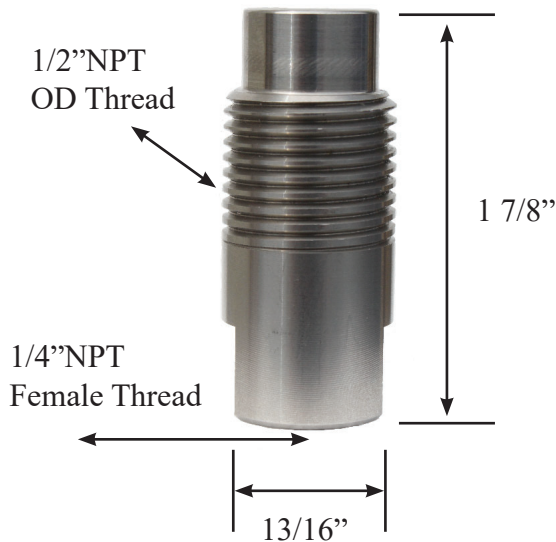
* Recommended Spare Parts

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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