



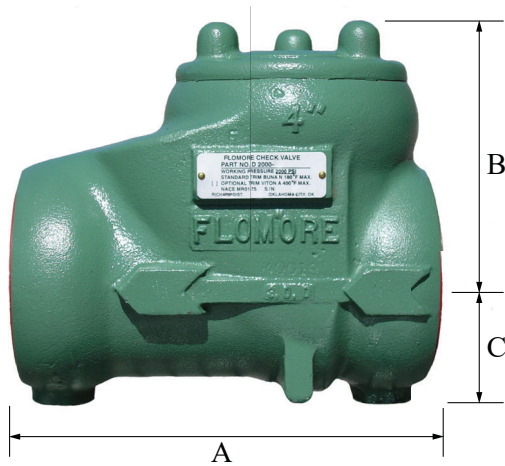
Different By Design

Check Valves



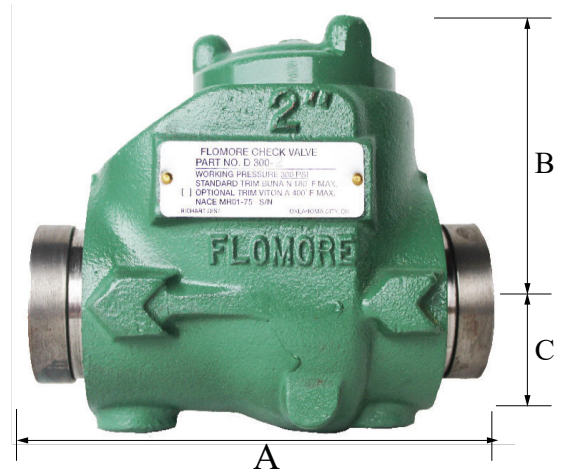
Swing Check Valves

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



Threaded Swing Check

Working Pressure	Size			
	1"	2"	3"	4"
300#	D300-1	D300-2	D300-3	D300-4
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

Working Pressure	Size		
	2"	3"	4"
300#	D300-2GE	D300-3GE	D300-4GE
1000#	D1000-2GE	D1000-3GE	D1000-4GE
1500#	D1500-2GE	▲	▲

Dimensions

Size	End	A	B	C	Flow Coefficient	Weight (lbs.)
1"	T	4.25	3.25	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	▲	665	25
4"	T	10	5.75	3.125	1300	33
4"	GE	10.73	5.75	▲	1300	37

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
Buna O-Ring	1CR	2CR	3CR	4CR

Steel Swing Check Valves

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



S2003-2000-1
2000#



S3003-3000-1
3000#



S3603-3600-1
3600#



S5003-5000-1
5000#



Material Specifications

Part	Size	Material
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

Steel Swing Checks

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

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

Ball Check Valves

Features:

- Can be used next to a compressor without beating the ball out
- Replaceable resilient seal with secondary metal to metal seal
- Nominal flow restriction
- Can be installed horizontally and vertically
- No ball spring
- Minimum parts wear from low flow rates or pulsating service

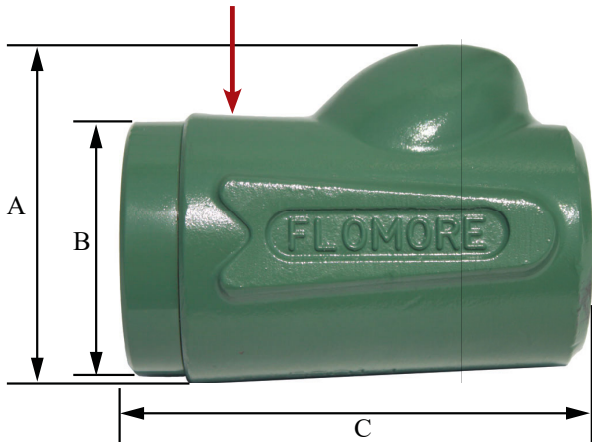
Steel and Stainless Steel Ball Checks

Warning:

DO NOT WRENCH ON THIS SURFACE.

You will break the seal between the body & cover.
(surface marked by red arrow)

Working Pressure	Material	Size		
		1/2"	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



Dimensions

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

Performance Ratings

- Valve design rating: 5,000 lbs **MAXIMUM** working pressure
- Maximum Temperature
Buna Seat 180°F
Viton Seat 400°F

Materials

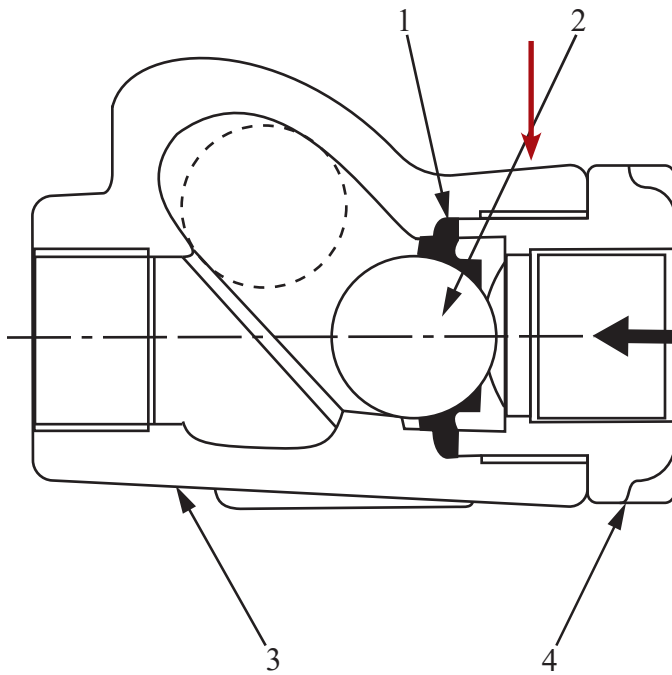
Part	Material
Body	ASTM A 216 WCB
End Cover	ASTM A 108
Ball	AISI 440C SS
Seat	Buna or Viton
Seat Backing	303 Stainless Steel

Ball Check Valves

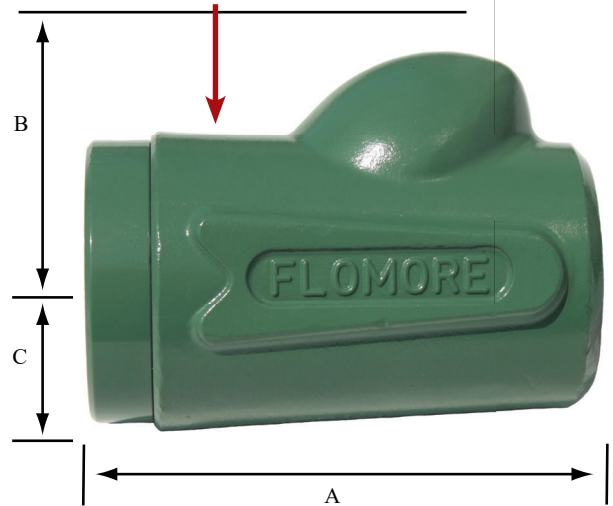
DBC Series / End Entry Ductile Iron Ball Checks

Ductile Ball Checks

Working Pressure	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	10194F
2	Ball	440 Stainless Steel	10186F	10186F	10194F
3	Body	Ductile Iron	▲	▲	▲
4	Cap	Ductile Iron	▲	▲	▲

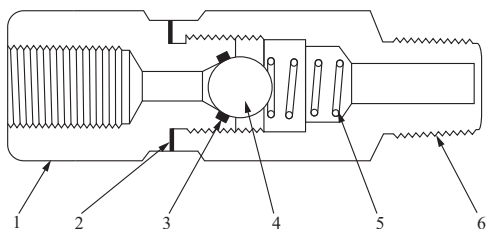
Line Check Valves

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	10000	303 Stainless Steel	0.35	30 psi
3/8"	F x F	TE-0019	6000	303 Stainless Steel	0.25	30 psi
1/4"		A-0680	6000	303 Stainless Steel	0.25	30 psi

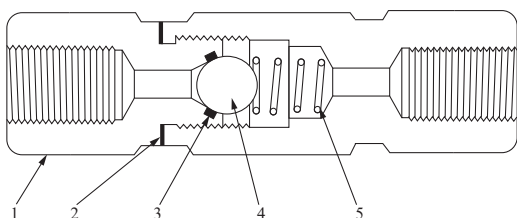
Optional Heavy Spring = 100 psi
(A-0392)

Optional Light Spring = 16 psi
(A-0077)

M x F Line Checks



F x F Line Checks



Parts List

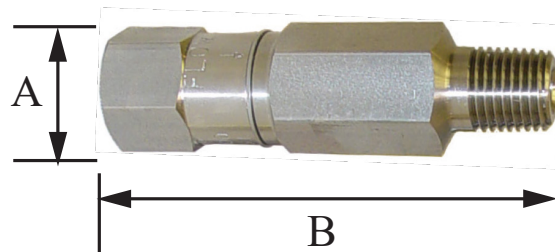
Item #	Part #	#Req	Description	Material
1	A-0678	1	Inlet Body	Brass
	A-1297	1	Inlet Body	303 Stainless Steel
2	A-1574	1	Washer	304 Stainless Steel
3	A-0479	1	O-Ring	Buna-N
	A-2580	1	O-Ring	Viton
4	A-0054	1	3/8" Ball	316 Stainless Steel
5	A-0391	1	Spring	316 Stainless Steel
6	A-0677	1	Outlet Body	Brass
	A-1296	1	Outlet Body	303 Stainless Steel

*Recommended Spare Parts

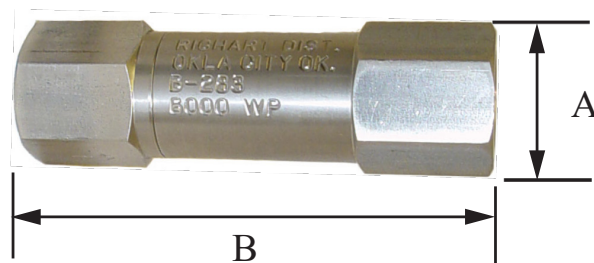
**A-0675 Only

***A-0676 Only

Dimensions



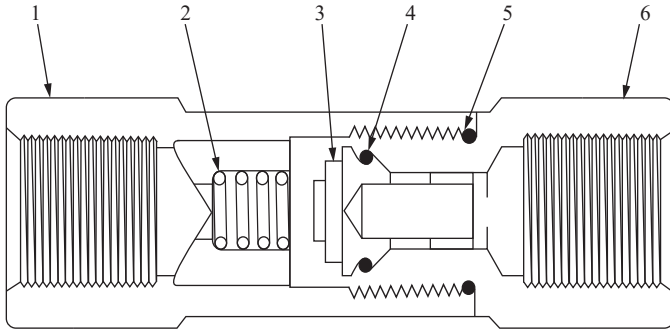
Part #	A	B
A-0672	3/4"	2 7/8"
TE-0018	3/4"	2 7/8"
A-0676	3/4"	2 7/8"
A-0675	3/4"	2 7/8"
A-0680	3/4"	2 7/8"



Part #	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

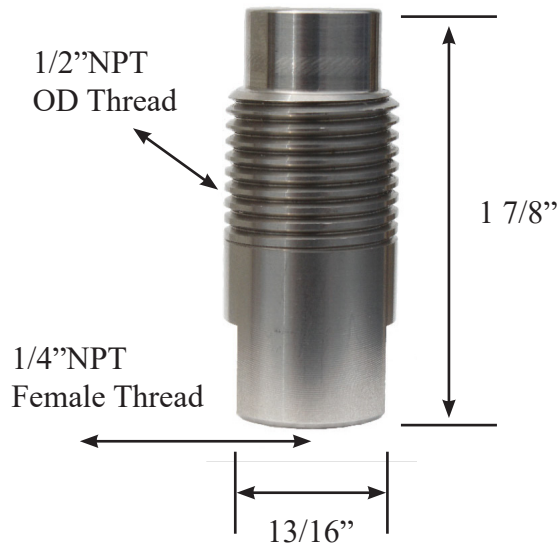
Item #	Part #	#Req	Description	Material
1	B-0271	1	Body	303 Stainless Steel
2	A-0391	1	Spring	316 Stainless Steel
3	A-1879	1	Valve	303 Stainless Steel
4	A-0612	1	O-Ring	Buna-N
	A-2184	1	O-Ring	Viton
5	A-1959	1	O-Ring	Buna-N
	A-3979	1	O-Ring	Viton
6	A-1880	1	Bushing	303 Stainless Steel

*Recommended Spare Parts

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

Atomizing Nozzle

Orifice Size .060 / Core 225





Different By Design

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