

## **360 Series** Safety Ballcheck Valves

Section: Bulletin: Data: J100 J100.56 11/2017



# Innovative Core Design Locating an Internal Ballcheck within a Metal Seated Valve

# Patented design eliminates operator error, improves safety and reliability

- · Improves safety by eliminating false level readings during commissioning
- Quarter turn position visible handle indicates open or closed
- Low emission certified to API 641 & ISO 15848-1
- Meets API Class V shut-off requirements
- 900# ANSI Pressure Rating
- All wetted components comply with NACE MR0103 and MR0175
- · Clean-out port allows for quick inspection of internals or as a flushing port
- Lock-out / tag-out capable, standard

### Innovative Design Guarantees Proper Commissioning

The Jerguson 360 Series valve is equipped with many features that elevate its performance above traditional style safety ballcheck valves. Designed to alleviate a widespread problem, the 360 Series' bypass mode seeks to remove guess work or operator error during commissioning. The quarter turn position — visible handle provides clear operation status and a locking pin to secure its position. **Patent # US9,377,113 B2** 

### **Simplified Commissioning**

As opposed to traditional ballcheck valves, it is impossible to get a false level reading with a 360 Series valve during commissioning. When using a traditional ballcheck valve and commissioning a gage assembly when there is already liquid present in the vessel, it is common for the operator to open the valve too quickly, causing the ballcheck to engage and the level gage to display a false level reading!

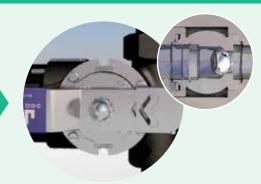
## Simplified Commissioning: Watch for the video at www.jerguson.com/360-series



With liquid present in the vessel, open the top valve to By-Pass position.



Then open the bottom valve to the bypass position. Fluid will now flow through the valve and into the glass without seating the ballcheck.



Once the level stops rising, move both valves to the run position. Now, the valves are ready for normal operation. If your level gage is not maintained properly or a leak occurs, the ballcheck will engage and isolate the gage from the vessel.

# **Liquid Level Valves**

## How to Specify 360 Series Safety Ballcheck Valves

### **Gage Connection Type**

#### Code Description 3S

- Set, Non-Union Gage Connection 4S Set, Union Gage Connection
- 3T Top Valve, Non-Union Gage Connection
- 3B Bottom Valve, Non-Union Gage Connection
- 4T Top Valve, Union Gage Connection
- 4B Bottom Valve, Union Gage Connection

#### **Body Material**

#### Code Description

- А A105N Carbon Steel
- Т A182 316/316L Stainless Steel
- LC Hastelloy C276

#### **Trim Material**

#### Code Description

- 1 316SS Nitride Coated Seat & Ball; Inconel Stem
- 2 Hastelloy C276 Ball & Stem; Teflon Seat

#### **Process Connection**

<i>Style</i> Code	Description	Size <b>Code</b>	Description	Sizes Valid with Styles
А	FNPT	04	1/2" (DN15)	A, B, C, D, F, G
В	FSW	06	3/4" (DN20)	A, C, D, F, G
С	MNPT	08	1" (DN25)	C, D, F, G
D	MSW	12	1-1/2" (DN40)	F, G
F	RF ASME Flange	16	2" (DN50)	F, G
G	RF DIN Flange	00	N/A	К
Κ	No Connection			

316SS

#### **Carbon Steel** Series 360 Temperature / Pressure

1	001100	000	rompon	uturo /	11000010	,			
	Ter	np.	Pressure						
	۴	°C	PSI	BarG	Kg/cm <sup>2</sup>	kPaG			
	100	38	2220	153	156	15306			
	200	93	2035	140	143	14031			
	300	149	1965	135	138	13548			
	400	204	1900	131	134	13100			
	500	260	1810	125	127	12480			
	600	316	1705	118	120	11756			
	700	371	1590	110	112	10963			
	800	427	1235	85	87	8515			

Not recommended for steam service

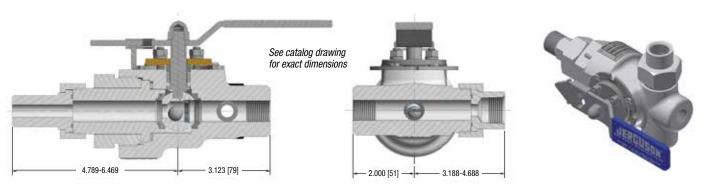
#### Series 360 Temperature / Pressure Temp. Pressure °F °C PSI BarG 100 38 2160 149

#### 200 93 1860 128 131 12824 300 149 1680 116 118 11583 400 204 1540 106 108 10618 500 260 1435 99 101 9894 600 316 1355 93 95 9342 700 371 1305 90 92 8998 800 427 1265 87 89 8722

Not recommended for steam service

364S-A-1	- A	04 - A	04 – AC	)4-A(	)4–			
					ΓT	Options	6	
						Code	Description	
						Blank	Standard	
						WN	Weld Neck Fla	nges
n 🛛						RJ	Ring Joint Flar	iges
						SG	Spherical Unio	n Gage Connection
						Clean-0	Out Connection	Size
						Code	Description	Note
						A04	1/2" FNPT	Factory Default when 1/2" size vent/drain is specified
						A06	3/4" FNPT	Factory Default when 3/4" size vent/drain is specified
						*Contac	ct factory for spe	ecial connections
	-			— Vei	nt or Dra	ain Con	nection	

	Style				Size			Sizes Valid
	Code	Descri	ption		Code	De	scription	with Styles
	А	FNPT			04	1/	2" (DN15)	A, B, F, G
	В	FSW			06	3/4	4" (DN20)	A, B, F, G
	F	<b>RF ASN</b>	/IE Flan	ge	08	1"	(DN25)	F, G
	G	<b>RF DIN</b>	Flange		12	1-	1/2" (DN40)	F, G
	K	No Con	inectior	۱	16	2"	(DN50)	F, G
					00	N/.	A	K
- Gage	Connecti	on					363	364
Style			Size				Sizes Valid	Sizes Valid
Code	Descript	tion	Code	Des	scriptior	ı	with Styles	with Styles
Α	FNPT		04		" (DN15)		A, B, F, G	A, B, C, D, F, G
В	FSW		06	3/4	" (DN20)		A, B, F, G	A, C, D, F, G
					```		π, υ, ι, α	A, 0, D, I, U
С	MNPT		08		(DN25)		F, G	C, D, F, G
C D	mnpt MSW			1" (	```			
		Flange	08	1" ( 1-1,	(DN25)		F, G	C, D, F, G
D	MSW		08 12	1" ( 1-1,	(DN25) /2'' (DN4 (DN50)		F, G F, G	C, D, F, G F, G



kPaG

14893

Kg/cm<sup>2</sup>

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