

28-BFV(NL) & 28-BHFV(NL) SERIES - NO LEAD BRASS FLOAT VALVES

APPLICATIONS:

- Most commonly used to control the filling of livestock watering as well as many other automatic tank filling applications.

SPECIFICATIONS:

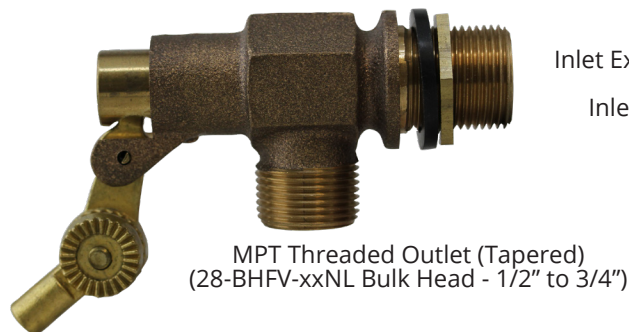
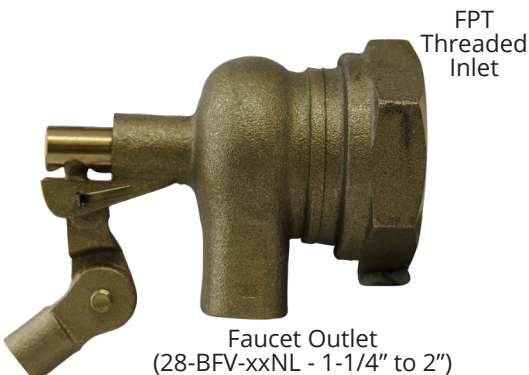
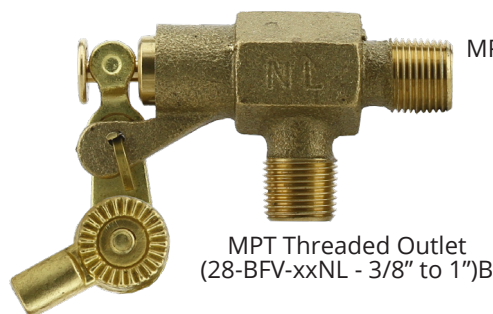
- No Lead Brass C89550
- Threads conform to ANSI/ASME B1.20.1
- Seat and O-ring lubricated with silicone lubricant
- Threaded Outlet models (28-BFV series 3/8" to 1" size) have Buna-N (NBR) plunger seals
- Faucet Outlet models (28-BFV series 1-1/4" to 2" size) have Buna-N (NBR) plunger seals
- Bulk head models (28-BHFV series 1/2" to 3/4" size) have internal (FPT) and external (SMT) on inlet connection. Complete with nut (SMT) and Buna-N (NBR) gasket to seal against the tank wall. Plunger seals are Buna-N (NBR).

RATINGS:

- Max Temperature Rating: 180°F (82°C)
- Max Operating Pressure Rating: 125 PSI

CERTIFICATIONS:

- NSF/ANSI Standard 372 Certified (Drinking Water System Components - Lead Content - NL test criteria <0.25% Pb by weighted average)



C89550 Alloy Composition - Valve Bodies	
Element	% min/max
Cu	58.0 - 64.0
Pb	0.09 max
Sn	0.00 - 1.2
Zn	32.0 - 38.0
Fe	0.50 max
P	0.01 max
Ni ⁽²⁾	1.0 max
Al	0.10 - 0.6
Bi	0.6 - 1.2
S	0.05 max
Sb	0.05 max
Si	0.25 max
Se	0.01 - 0.10

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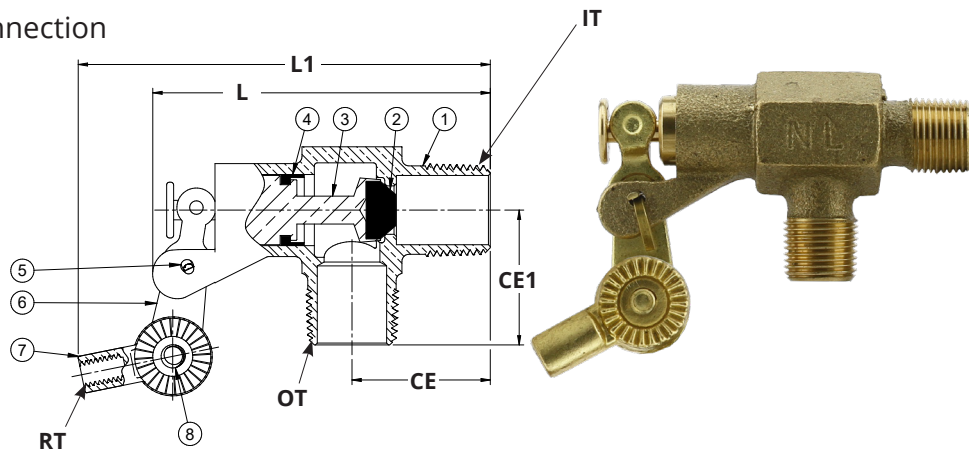
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THREADED OUTLET TYPE:

■ Inlet and outlet have MPT threaded connection

MATERIAL LIST		
No.	Name	Material
1	Body	NL Brass C89550
2	Shut off Seal	NBR Rubber
3	Plunger Barrel	NL Brass C6802
4	O-Ring/Cylinder Seal	NBR Rubber
7	Float Rod End Adapter	NL Brass C6802
6	Pivot Arm	NL Brass C6802
8	Thumb Screw (1/4-20 X 5/8 Type A, regular)	Brass C2600
5	Cotter Pin (1/8 x 7/8)	Brass C2600

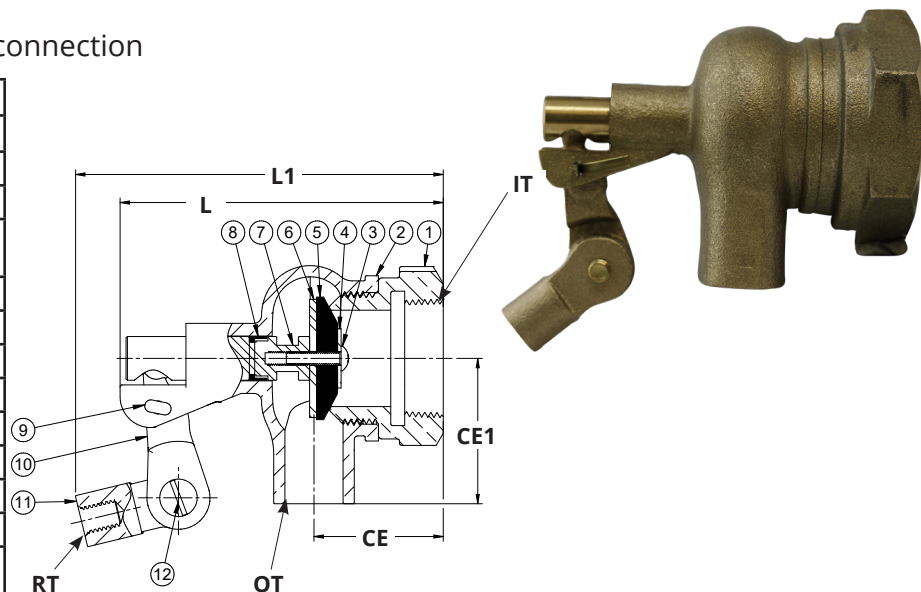


DIMENSIONS													
Part No.	Inlet (IT)	Outlet (OT)	Rod Connection (RT)	CE		CE1		L		L1 (max closed)		Weight	
	MPT	MPT	Tapped	in	mm	in	mm	in	mm	in	mm	lb	gram
28-BFV-03NL	3/8"	3/8"	1/4" -20 UNC	1.34	34.00	1.32	33.50	3.35	85.0	4.13	105.0	0.55	250
28-BFV-05NL	1/2"	1/2"	1/4" -20 UNC	1.46	37.00	1.38	35.00	3.35	85.0	3.94	100.0	0.62	280
28-BFV-07NL	3/4"	3/4"	1/4" -20 UNC	1.54	39.00	1.42	36.00	3.54	90.0	4.57	116.0	0.80	363
28-BFV-10NL	1"	1"	1/4" -20 UNC	1.81	46.00	1.75	44.50	4.06	103.0	4.92	125.0	1.21	550

FAUCET OUTLET TYPE:

■ Inlet has FPT connection, outlet is faucet connection

MATERIAL LIST		
No.	Name	Material
1	Hex End Part (NPT)	NL Brass C89550
2	Body	NL Brass C89550
3	Plunger Gasket Screw (10-32 UNC x 3/4, full thread)	Brass C2600
4	Small Washer	Brass C2680
5	Shut off Seal	NBR Rubber
6	Large Washer	NL Brass C6802
7	Plunger Barrel	NL Brass C6802
8	Cylinder Seal	NBR Rubber
9	Cotter Pin (3/16 x 1-5/16)	Brass C2700
10	Pivot Arm	NL Brass C89550
11	Float Rod End Adapter	NL Brass C89550
12	Screw (5/16-18UNC x 3/4, full thread, slotted round head)	Brass C2600



DIMENSIONS													
Part No.	Inlet (IT)	Outlet (OT)	Rod Connection (RT)	CE		CE1		L		L1 (max closed)		Weight	
	FPT	Faucet	Threaded	in	mm	in	mm	in	mm	in	mm	lb	grams
28-BFV-12NL	1-1/4"	Faucet	3/8" -16 UNC	1.85	47.0	2.15	54.5	4.57	116.0	5.24	133.0	2.87	1300
28-BFV-15NL	1-1/2"	Faucet	3/8" -16 UNC	1.85	47.0	2.15	54.5	4.65	118.0	5.35	136.0	2.76	1250
28-BFV-20NL	2"	Faucet	3/8" -16 UNC	2.24	57.0	2.15	54.5	5.04	128.0	5.67	144.0	3.31	1500

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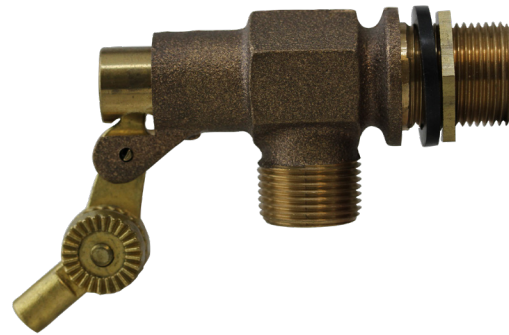
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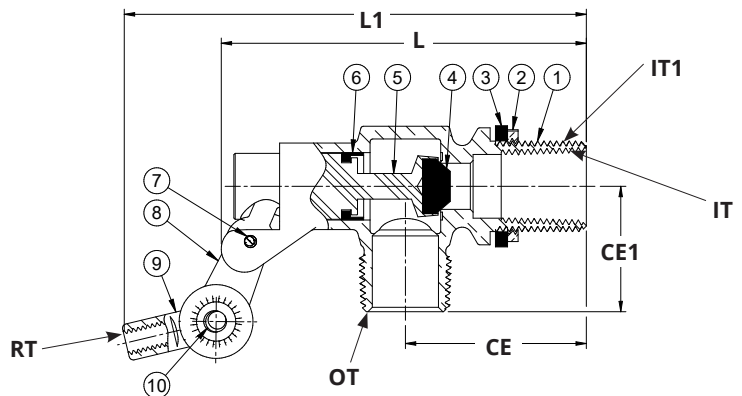


BULKHEAD TYPE:

- Inlet external thread is straight thread (SMT)
- Inlet internal thread is FPT connection
- Outlet thread is tapered MPT



MATERIAL LIST		
No.	Name	Material
1	Body	NL Brass C89550
2	Nut	Brass C3604
3	Washer	NBR Rubber
4	Shut off Seal	NBR Rubber
5	Plunger Barrel	NL Brass C6802
6	O-Ring (AS568-111)	NBR Rubber
7	Cotter Pin (1/8 x 7/8)	Brass C3604
8	Pivot Arm	NL Brass C6802
9	Float Rod End Adapter	NL Brass C6802
10	Thumb Bolt (1/4-20 X 5/8 Type A, regular)	Brass C3604



DIMENSIONS

Part No.	Inlet Internal Thread (IT)	Inlet External Thread (IT1)	Outlet (OT)	Rod Connection (RT)	CE		CE1		L		L1 (max closed)		Weight	
	FPT	SMT	MPT	Internal Thread	in	mm	in	mm	in	mm	in	mm	lb	gram
28-BHFV-05NL	3/8"	1/2"	1/2"	1/4" - 20 UNC	1.72	43.8	1.36	34.5	3.01	76.5	3.60	91.5	0.65	294.8
28-BHFV-07NL	1/2"	3/4"	3/4"	1/4" - 20 UNC	2.03	51.5	1.38	35.0	3.48	88.5	4.02	102.0	0.86	390.1

FLOAT VALVE REPLACEMENT PARTS:

LEVER ASSEMBLY:

- Set and adjust float angle
- Includes; Pivot arm, cotter key, thumb bolt or round head slotted screw, float rod end adapter

Part No	Description	Adjustment Bolt	Cotter Pin			
			D		L	
			in	mm	in	mm
28-BFVP-LA0310	For 3/8" to 1" float valve	Thumb bolt (1/4-20 UNC x 1/2)	3.2	0.126	20	0.787
28-BFVP-LA1220	For 1-1/4" to 2" float valve	Round head Slotted Screw (5/16-18 UNC x 3/4)	4	0.157	32	1.260

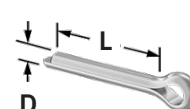


28-BFVP-LA0310



28-BFVP-LA1220

Cotter Pin



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PLUNGER ASSEMBLY:

- Comes complete with brass plunger, NBR O-ring or cylinder seal (plunger body) and shut off seal (tip), and screw/washer for 28-BFVP-PA1220.

Cylinder seal/ O-ring Shut off seal



28-BFVP-PA0305



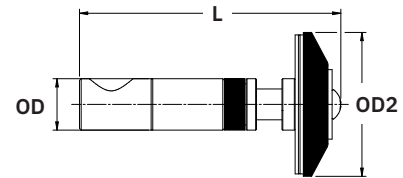
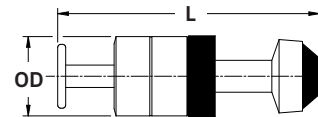
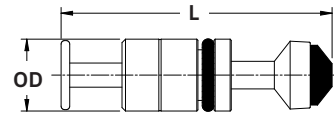
28-BFVP-PA07



28-BFVP-PA10



28-BFVP-PA1220



Part No	Description	OD		L		OD2	
		in	mm	in	mm	in	mm
28-BFVP-PA0305 Standard O-Ring (AS568-111)	For 3/8" to 1/2" float valve	0.628	15.95	2.365	60.07	N/A	
28-BFVP-PA07	For 3/4" float valve	0.747	18.97	2.478	62.94	N/A	
28-BFVP-PA10	For 1" float valve	0.875	22.23	2.540	64.52	N/A	
28-BFVP-PA1220 Screw: 10-32 x 3/4 UNC, full thread	For 1-1/4" to 2" float valve	0.625	15.88	3.178	80.72	1.750	44.45

REPLACEMENT SEAL KIT:

- Buna-N Rubber (NBR)

Part No	Description
28-BFVP-SK0305	For 3/8" to 1/2" float valve
28-BFVP-SK07	For 3/4" float valve
28-BFVP-SK10	For 1" float valve
28-BFVP-SK1220	For 1-1/4" to 2" float valve



28-BFVP-SK0305



28-BFVP-SK07



28-BFVP-SK10



28-BFVP-SK1220

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