Hunter® The Irrigation Innovators







1½" Brass Valve



2" Brass Valve



HBV

Constructed of

solid brass to handle tough conditions and resist contamination

3" Brass Valve

irt particles can often jam a solenoid operated diaphragm valve...but not this one! The contamination-resistant HBV actually filters dirty water before it enters the solenoid chamber. An internal self-flushing filter and self-cleaning metering rod see to that. The product's solid construction also features a

stainless steel solenoid seat that will never corrode, as well as a surgical-quality toggle switch that provides easy manual operation through an internal downstream bleed—no more muddy valve boxes. It's rugged. It's reliable. This is a brass valve created for the fiercest conditions found on a commercial site.

Features & Benefits

Heavy-duty toggle switch

Makes manual operation easy

Waterproof solenoid

Corrosion-free operation

Stainless steel seat in solenoid chamber

Prevents rust and corrosion

Slow closure

Stops water hammer, surge and noise

Internal downstream bleed

Keeps valve box dry

Reinforced 600 lb. test diaphragm with integral O-ring seal

Long life under extreme pressures

The HBV Pressure Regulating Valve



This option has all the exceptional features of the HBV plus a pressure regulator with a Schraeder-type valve. It operates within the 20-200 PSI pressure range and is adjustable from 10 to 125 PSI. Make it the heart of your high-end system where reliability and consistent pressure at the heads are required.



The pressure regulator for the HBV features a large easy to turn knob.

Models

HBV-101E — 1" brass globe valve $HBV-151E-1\frac{1}{2}$ " brass globe valve HBV-201E - 2" brass globe valve HBV-301E - 3" brass globe valve

Dimensions

- HBV-101E: 4½" H x 4³/₈" L x 5½" W (11 cm H x 11 cm L x 14 cm W)
- HBV-151E: 8" H x 6" L x 8" W (20 cm H x 15 cm L x 20 cm W)
- HBV-201E: 9" H x 7" L x 9" W (23 cm H x 18 cm L x 23 cm W)
- HBV-301E: 10" H x 115/8" L x 10" W (25 cm H x 29 cm L x 25 cm W)
- HBV-101EP: 4½" H x 4³/8" L x 5½" W (11 cm H x 11 cm L x 14 cm W)
- HBV-151EP: 8" H x 6" L x 7½" W (20 cm H x 15 cm L x 19 cm W)
- HBV-201EP: 9" H x 7" L x 7¾" W (23 cm H x 18 cm L x 20 cm W)
- HBV-301EP: 10" H x 115/8" L x 11" W (25 cm H x 29 cm L x 28 cm W)
- Female inlet/outlet: NPT or BSP

Operating Specifications

- Flow: 5 to 360 GPM (1.14 to 81.8 m³/hr; 18.9 to 1362 l/min)
- Pressure: 20 to 200 PSI (1.4 to 14.0 bars; 138 to 1379 kPa) Note: Inlet pressure must exceed outlet pressure by a minimum of 15 PSI (1.0 bars; 103 kPa) on pressure regulated models
- Electrical: 24VAC, 50/60 cycle solenoid power requirement - 335mA (.335A; 8VA) inrush current; 200mA (.200A; 4.9VA) holding current

Options Available

- Pressure regulation
- BSP threads
- DC latching solenoid, field installed (part # \$16305)



HBV Pressure Loss in PSI				
GPM	1"	1½"	2"	3"
5	0.2			
10	0.8			
15	1.5			
20	2.6	0.5		
30	5.7	1.0		
40	10.0	1.7	0.5	
50	15.6	2.7	0.8	
60	22.0	3.8	1.2	
70		5.1	1.6	
80		6.6	2.1	
90		8.3	2.6	
100		10.1	3.2	2.4
120		14.8	4.6	2.5
140		19.0	6.3	2.5
160		23.1	8.0	2.9
200			13.9	4.0
240				6.0
280				8.2
320				10.7
360				13.2
		n non-regulate re is 2.5 anm.	ed setting pos	ition.

Charts based on full-open non-regulated setting position.
Minimum flow on 1" valve is 2.5 gpm.

HBV Pressure Loss in Bars				
m³/hr	1"	1½"	2"	3"
1.14	0.00			
2.27	0.10			
3.41	0.10			
4.54	0.20	0.00		
6.81	0.40	0.10		
9.09	0.70	0.10	0.00	
11.36	1.10	0.20	0.10	
13.63	1.50	0.30	0.10	
15.90		0.40	0.10	
18.17		0.50	0.10	
20.44		0.60	0.20	
22.72		0.70	0.20	0.20
27.26		1.00	0.30	0.20
31.80		1.30	0.40	0.20
36.35		1.60	0.60	0.20
45.43			1.00	0.30
54.51				0.40
63.59				0.60
72.68				0.70
81.76				1.90
Charts base	ed on full-ope	n non-regulate	ed setting pos	ition.

v Pre	ssure Lo	ss in Bars			
³/hr	1"	1½"	2"	3"	
14	0.00				
27	0.10				
41	0.10				
54	0.20	0.00			
81	0.40	0.10			
09	0.70	0.10	0.00		
36	1.10	0.20	0.10		
63	1.50	0.30	0.10		
90		0.40	0.10		
17		0.50	0.10		
44		0.60	0.20		
72		0.70	0.20	0.20	
26		1.00	0.30	0.20	
80		1.30	0.40	0.20	
35		1.60	0.60	0.20	
43			1.00	0.30	
51				0.40	
59				0.60	
68				0.70	
76				1.90	
rts base	ts based on full-open non-regulated setting position.				

Minimum flow on 1" valve is 0.57 m³/hr.

HRA LL	essure Lo	ss in kpa		
l/min	1"	1½"	2"	3"
18.9	1.10			
37.9	5.20			
56.8	10.30			
75.7	17.90	3.10		
113.6	39.30	6.90		
151.4	68.90	11.70	3.70	
189.3	110.00	18.30	5.70	
227.1	151.90	26.20	8.30	
265.0		35.20	11.00	
302.8		45.50	14.10	
340.7		57.20	17.90	
378.5		69.60	22.10	16.00
454.2		102.20	31.70	17.00
530.0		131.20	43.40	17.00
605.7		159.40	55.20	20.00
757.1			95.80	28.00
908.4				41.00
1059.8				57.00
1211.2				74.00
1362.6				91.00
Charts bas	ed on full-ope	n non-regulate	d setting posi	tion.

Minimum flow on 1" valve is 9.5 l/min.



SPEC	SPECIFICATION GUIDE			
	EXAMPLE: <u>HBV</u> - <u>201E</u> - <u>P</u>			
MODEL HBV	FEATURES 101E = 1" Globe Valve 151E = 1½" Globe Valve 201E = 2" Globe Valve 301E = 3" Globe Valve	OPTIONS P = Pressure Regulation B = BSP Threads DC = DC Latching Solenoid (Field Installed)		

