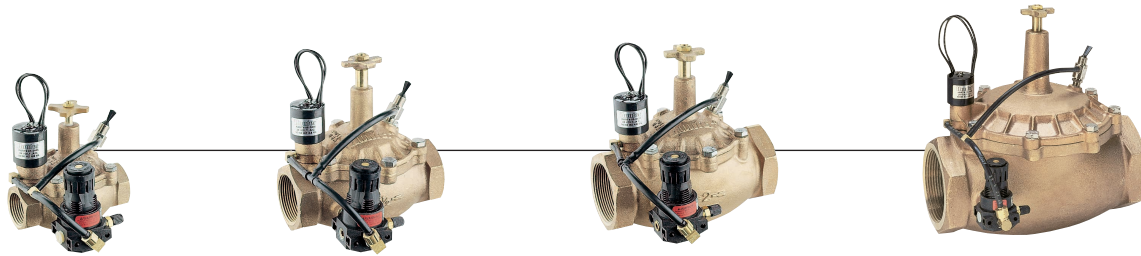


Hunter®

HBV Brass Valves

HBV

*Brassy
and Bold
for Big
Commercial
Systems*



Dirt 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 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.



Models*

HBV-101E:

1" brass globe valve

HBV-151E:

1½" brass globe valve

HBV-201E:

2" brass globe valve

HBV-301E:

3" brass globe valve

HBV-101EP:

1" brass globe valve,
with pressure regulation

HBV-151EP:

1½" brass globe valve,
with pressure regulation

HBV-201EP:

2" brass globe valve,
with pressure regulation

HBV-301EP:

3" brass globe valve,
with pressure regulation

*BSP can be ordered by adding "B" at the end of the model number

Dimensions

HBV-101E:

5¼" H (13 cm) x 4½" L (11 cm)
x 3¾" W (10 cm)

HBV-151E:

7" H (18 cm) x 6" L (15 cm)
x 5" W (13 cm)

HBV-201E:

7½" H (19 cm) x 7" L (18 cm)
x 5" W (13 cm)

HBV-301E:

10" H (25 cm) x 11⅝" L
(29 cm) x 10" W (25 cm)

HBV-101EP:

5¼" H (13 cm) x 4½" L
(11 cm) x 5½" W (14 cm)

HBV-151EP:

7" H (18 cm) x 6" L
(15 cm) x 7¼" W (18 cm)

HBV-201EP:

7½" H (19 cm) x 7" L
(18 cm) x 7¼" W (18 cm)

HBV-301EP:

10" H (25 cm) x 11⅝" L
(29 cm) x 11" W (28 cm)

Operating Specifications

- Flow: 5 to 360 gpm
(1,14 to 45,43 m³/hr;
18,9 to 757,1 l/min)
- Pressure: 20 to 200 psi (1,4 to
10,3 bars; 138 to 1034 kPa) –
inlet pressure must exceed
outlet pressure by a minimum 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

Warranty

- 5-year exchange, not prorated

Options Available

- Pressure regulation
- BSP Threads
- DC latching solenoid, field
installed (part number S16305)

Performance Charts

Pressure Loss in PSI

GPM	1"	1 1/2"	2"	3"
5	.16			
10	.75			
15	1.50			
20	2.60	.45		
30	5.70	1.00		
40	10.0	1.70	.53	
50	15.95	2.65	.82	
60	22.03	3.80	1.20	
70		5.10	1.60	
80		6.60	2.05	
90		8.30	2.60	
100		10.09	3.20	2.38
120		14.82	4.60	2.45
140		19.03	6.30	2.50
160		23.12	8.00	2.90
200			13.90	4.00
240				6.00
280				8.20
320				10.70
360				13.20

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

Pressure Loss in Bars

m ³ /hr.	1"	1 1/2"	2"	3"
1.14	0.0			
2.27	0.1			
3.41	0.1			
4.54	0.2	0.0		
6.81	0.4	0.1		
9.09	0.7	0.1	0.0	
11.36	1.1	0.2	0.1	
13.63	1.5	0.3	0.1	
15.90		0.4	0.1	
18.17		0.5	0.1	
20.44		0.6	0.2	
22.72		0.7	0.2	0.2
27.26		1.0	0.3	0.2
31.80		1.3	0.4	0.2
36.35		1.6	0.6	0.2
45.43			1.0	0.3
54.51				0.4
63.59				0.6
72.68				0.7
81.76				1.9

Chart based on full-open non-regulated setting position. Minimum flow on 1" valve is 0.57 m³/hr.

Pressure Loss in kPa

l/min.	1"	1 1/2"	2"	3"
18.9	1.1			
37.9	5.2			
56.8	10.3			
75.7	17.9	3.1		
113.6	39.3	6.9		
151.4	68.9	11.7	3.7	
189.3	110.0	18.3	5.7	
227.1	151.9	26.2	8.3	
265.0		35.2	11.0	
302.8		45.5	14.1	
340.7		57.2	17.9	
378.5		69.6	22.1	16
454.2		102.2	31.7	17
530.0		131.2	43.4	17
605.7		159.4	55.2	20
757.1			95.8	28
908.4				41
1059.8				57
1211.2				74
1362.6				91

Chart based on full-open non-regulated setting position. Minimum flow on 1" valve is 9.5 l/min.

PRODUCT EXPLANATION

EXAMPLE: **HBV - 201E - P**

MODEL

HBV-101E = 1" electric
HBV-151E = 1½" electric
HBV-201E = 2" electric
HBV-301E = 3" electric

OPTIONS

P = Pressure Regulation
B = BSP Threads
DC = DC Latching Solenoid
(field installed)

Available from:

