

HRB SERIES

The industry's fastest, best built commercial valve.

Features

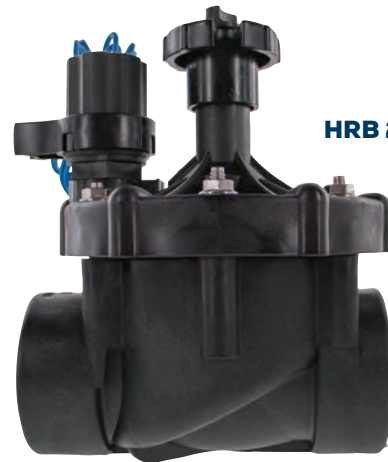
- Fiber reinforced body delivers superior strength under extreme conditions
- Solid brass and stainless steel components ensure corrosion resistance
- Slow-closing reinforced diaphragm protects against water hammer
- Pilot hole filter screen reduces risk of clogging
- Stainless steel studs prevent possible damage due to over tightening and corrosion
- Manual internal bleed enables convenient, water efficient manual operation
- Manual external bleed enables fast seasonal startup and shutdown
- Low and high flow satisfies a wide range of flow conditions and application requirements
- Flow control stem provides ability to adjust flow over a wide range
- One-piece solenoid design secures plunger in solenoid body
- Normally closed, forward flow design
- Accepts DC latching solenoids for use with HRC battery-operated controllers



HRB 100



HRB 150



HRB 200



Specifications

- Pressure: 20-200 psi (1.38-13.80 bar)
- Flow: 0.25-200 GPM (0.06-45.40 m³/h; 0.32-12.60 l/s)
- Water temperature: up to 105°F (66°C)
- Ambient temperature: up to 150°F (66°C)

Electrical Specifications

- 24VAC 50/60 (Cycle/Sec) solenoid
- Inrush current: .30A (7.2VAC) at 60 Hz
- Holding current: .19A (4.6VAC) at 60 Hz
- Coil resistance: 22 Ω

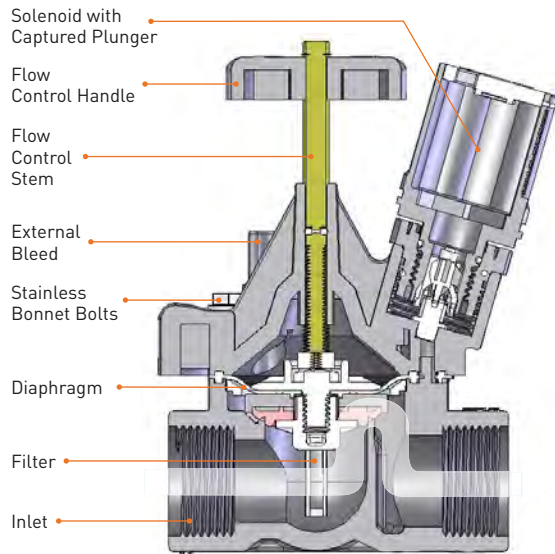
How to Specify

Model	
HRB	Commercial
Size	
100	1"
150	1 1/2"
200	2"
Inlet/Outlet	
FF	Female Pipe Thread
Options	
FC	Flow Control

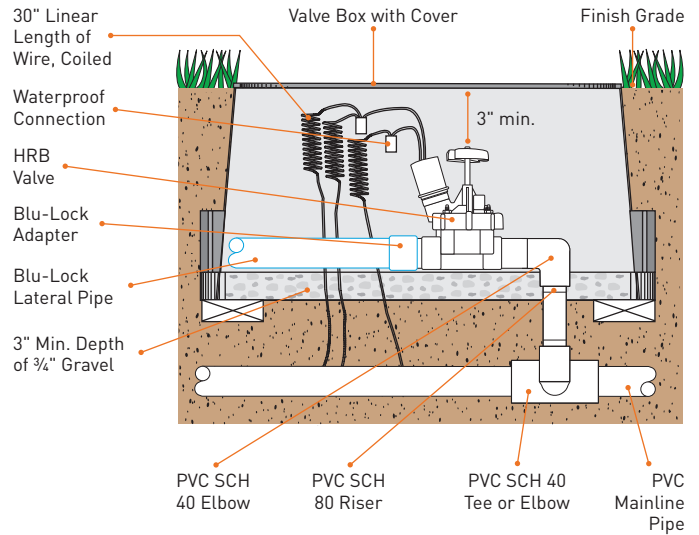
Models (SKU)

- HRB-100-FF-FC (05100)
- HRB-150-FF-FC (05101)
- HRB-200-FF-FC (05102)

HRB Cutaway



Installation Specification Detail



HRB Series Pressure Loss

Metric

FLOW GPM	HRB 100	HRB 150	HRB 200	FLOW M ³ /H	FLOW L/S	HRB 100	HRB 150	HRB 200
0.25	0.8	-	-	0.6	0.02	0.05	-	-
0.5	1.0	-	-	1	0.28	0.11	-	-
1	1.3	-	-	2	0.56	0.12	-	-
5	1.7	-	-	3	0.83	0.15	-	-
10	1.8	-	-	4	1.11	0.18	-	-
20	2.9	3.9	-	5	1.39	0.24	0.27	-
30	5.6	3.6	-	6	1.67	0.32	0.26	-
40	10	3.5	-	7	1.93	0.41	0.25	-
50	15.6	3.6	4.8	8	2.22	0.54	0.25	-
75	-	5.4	4.5	9	2.50	0.68	0.24	-
100	-	9.6	5.2	10	2.78	0.84	0.24	-
125	-	14.6	8.2	12	3.33	-	0.26	0.33
150	-	21.2	11.8	14	3.89	-	0.29	0.32
175	-	-	15.5	16	4.44	-	0.34	0.31
200	-	-	19.5	22	6.11	-	0.62	0.34
				28	7.78	-	0.97	0.55
				43	9.45	-	1.46	0.83
				40	11.11	-	-	1.09
				45	12.50	-	-	1.32

NOTES:

1. Hydro-Rain recommends flow rates in the supply line not to exceed 7.5 ft/sec. (2.29m/s) in order to reduce the effects of water hammer.
2. For flows below 5 GPM Hydro-Rain recommends the use of upstream filtration to prevent debris from collecting below the diaphragm.
3. For flows below 10 GPM (2.27 m³/h; 0.63 l/s) Hydro-Rain recommends the flow control stem be turned down two full turns from the fully open position.