

V135A 3-Way Mixing or Diverting Valve

The Honeywell Braukmann V135 valve is designed for hydronic heating systems and can be applied as a mixing valve or a diverting valve. The V135 is normally used with the T100R series thermostatic control which is equipped with a strap-on pipe sensor for attaching to the heating system pipe by means of a clamp. A plastic handle is also provided with the V135 for manual operation of the valve.

Construction

Body of bronze, internal parts of high quality engineering plastic, stainless steel stem and high quality elastomer materials.
Unions are made of brass material.

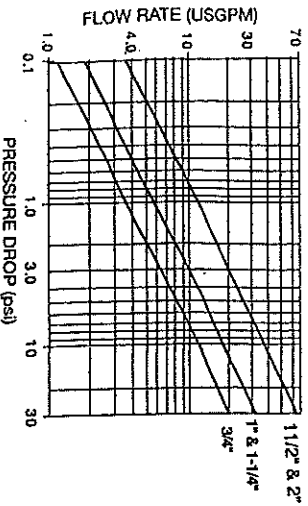
Specifications

Maximum Temperature Rating: 120°C (248°F)
Maximum System Pressure: 232 psi.
Maximum Differential Pressure: 147 psi.
Stroke length: 0.08" (2 mm)
CV rating & valve size:

FLOW CAPACITIES

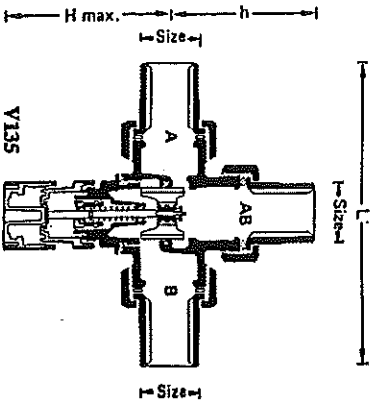
Size (in.)	CV Factor
3/4"	3.7
1"	5.8
1-1/4"	5.8
1-1/2"	11.7

CV = U.S.G.P.M. at 1 psi differential pressure.



Sizes and connections available:

- 3/4" - Sweat union.
 - 1" - NPT threaded union.
 - 1-1/4" - NPT threaded union.
 - 1-1/2" - NPT threaded union.
- Other variations available by special order.



V135 Valve nominal dimensions: in. - [mm]

SIZE (inches)	L		H max.		h
	NPT Threaded Union		Sweat Union		
3/4	5.55 [140]	3.25 [82]	2.80 [70]	3.15 [80]	
1	6.30 [159]	3.25 [82]	3.15 [80]	3.75 [95]	
1-1/4	7.10 [180]	3.25 [82]	3.75 [95]	4.20 [107]	
1-1/2	8.30 [211]	3.70 [94]			

Replacement parts

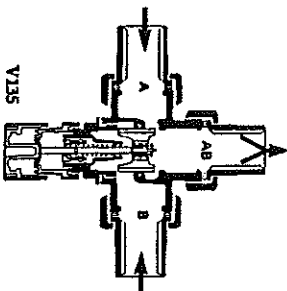
Description	Part Number
Cartridge for 3/4" size	0900660
Cartridge for 1" to 1-1/4" sizes	0900661
Upper replacement packing for 3/4", 1" & 1-1/4" sizes	0900650
Plastic handle for manual shut-off	H100-1/2A

Installation

When installing this product

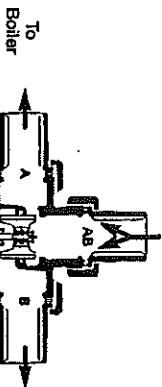
1. Read these instructions carefully. Failure to follow them could damage the product or cause hazardous conditions.
2. Before installation, make sure that the inside of the valve is clean and free of any packing materials, etc. The supply line should be flushed out to clear of any sediment, scale or foreign material.
3. Installation as a mixing valve:

To Radiant Manifold



4. Installation as a diverting valve:

Return From Radiant Manifold



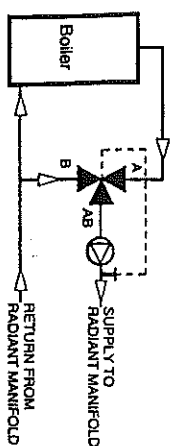
To Mixing Tee and Radiant Manifold

Service tips (continue)

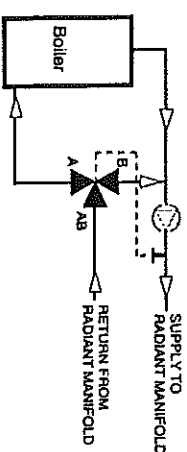
An ordinary screwdriver is required to remove the bushing. After re-installation, the bushing should be adjusted flush with the metal cartridge rim.

Application diagrams

Typical Mixing Valve Application

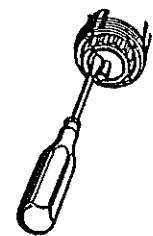
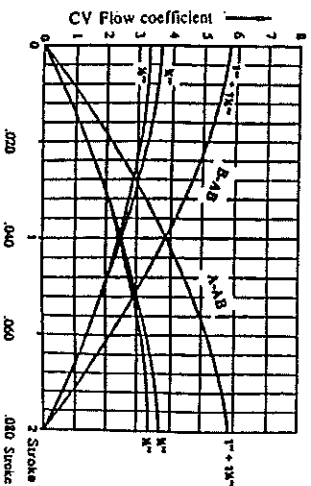


Typical Diverting Valve Application



Note: These diagrams are intended to show general arrangement only. Consult local codes for complete piping requirements.

Diagram for flows from A-AB and B-AB



Service tips

The Honeywell Braukmann 3-way valve has a double "stem seal" arrangement. The outer bushing with O-rings may be replaced under pressure and without draining the system.

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