



New VU Series 'QuickFit' Commercial Valves and Actuators



The VU443, VU444, VU843 and VU844 Valve Actuators, and VU52, VU53 and VU54 Valve Bodies, will control hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors. These valves are humidity resistant and are suitable for use in condensing, non-corrosive environments.

Important: These valves are not for use in systems containing dissolved oxygen.

Features

- Compact construction for easy installation.
- Fits under the cover of most baseboard convectors with actuator fitted.

Valve Bodies

- VU52 provides 2-way, straight-through control of water, normally open.
- VU53 models provides 2-way, straight-through control of water, normally closed.
- VU54 provides 3-way diverting control of water.
- Sizes from 1/2" to 1" (15 mm to 28 mm).

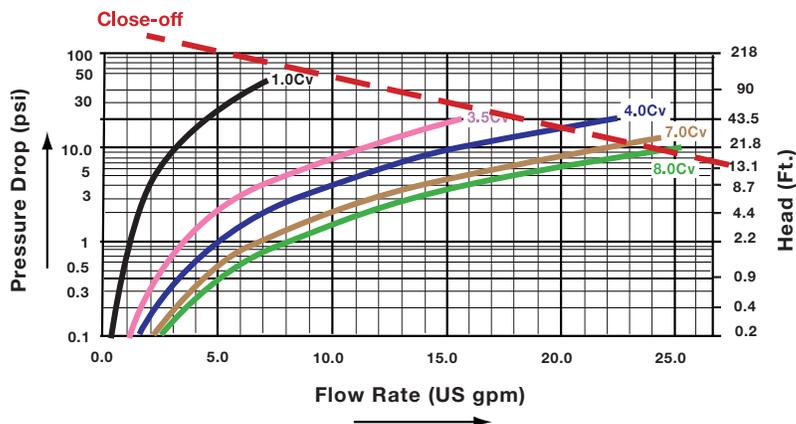
- 300 psi (2,000 kPa / PN20) operating pressure rating.
- 50 psi (3.4 bar) maximum differential pressure.
- Maximum flow 8 Cv (7 kvs).
- Patented ball seal provides extended service life, soft close off.
- Triple O-ring seal provides three lines of defence against corrosion and water leakage around driveshaft.

- Quick opening flow curve.
- Body serviceable by removing motor mounting plate.
- Choice of sweat or inverted flare brass end connections.
- Choice of NPT, BSPP, and BSPT end connections for iron or steel piping.

Valve Actuators

- One-button, quick release. End mounted for ease of access.
- Secure 3-point metal latch to valve body.
- Spring return operation.
- Stainless steel case and aluminum cover.
- Line or low voltage, rust-resistant motors.
- Manual opener for valve operation on power failure. Valve returns to automatic position when power is restored.
- Actuator installable and serviceable without draining the system or disassembling the valve.

Flow Characteristics of VU52, VU53, VU54 Valves, ANSI units



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Valve

Models: VU52: 2-way, normally open valves.
 VU53: 2-way, normally closed valves.
 VU54: 3-way diverting valves

Material: Valve body: forged brass.
 Drive shaft stem: brass.
 Ball plug: Buna-N rubber.
 O-ring seals: EPDM rubber.

Service Medium Suitable for hot and chilled water with up to 50% glycol. Not for use with potable water.

Approvals: CSA C/US Certified, LR1322

Dimensions: See Fig. 1.

Actuator

Models: VU443 (120V/60Hz), VU843 (24V/60Hz) : for use with VU52, VU53 2-way valves only.

VU444 (120V/60Hz), VU844 (24V/60Hz): for use with VU54 3-way valves.

Maximum Ambient @ Fluid Temperature Rating:
 Standard models (with class A motor):
 104°F(40°C) ambient @ 200°F(94°C) fluid.

Minimum Ambient Temperature: 34°F(1°C)

Atmosphere: Non-corrosive, non explosive, condensing.

Noise Rating: Low Noise - non obtrusive.

Materials:

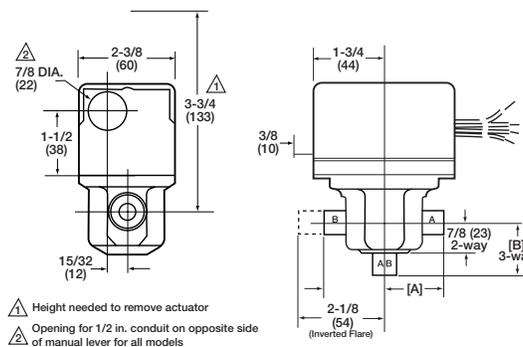
- Case: stainless steel.
- Cover: aluminum.
- Sector gear: reinforced with KEVLAR® brand fiber.

Model	Suffix Type	Pipe Connections		Flow Capacity* Rating		Maximum Closeoff* Pressure	
		Size	End Fittings	Cv	kv	psi	kPa
VU52 2-Way Normally Open	F	1/2"	Inverted Flare	3.5	3.0	20	138
	N	1/2"	NPT (internal thread)	3.5	3.0	20	138
		3/4"-1"		8.0	7.0	10	69
VU53 2-Way Normally Closed	S	1/2"-3/4"	Sweat	3.5	3.0	20	138
		3/4"-1"		8.0	7.0	10	69
VU54 3-Way Diverting	F	1/2"	Inverted Flare	4.0	3.4	20	138
	N	1/2"	NPT (internal thread)	4.0	3.4	20	138
		3/4"-1"		7.0	6.0	12	83
	S	1/2"	Sweat	4.0	3.4	20	138
3/4"-1"		7.0		6.0	12	83	

* Lower flow capacities with higher cross-off pressures on request.

Fig. 1 Mounting Dimensions in in. (mm):

Valve Body Size	[A]	[B]
1/2" Sweat	1-5/16 (33)	1-5/16 (33)
3/4" Sweat	1-3/8 (35)	1-11/16 (43)
1" Sweat	1-11/16 (43)	1-11/16 (43)
1/2" NPT/BSPT	1-3/8 (35)	1-15/16 (33)
3/4" NPT/BSPT	1-11/16 (43)	1-7/16 (37)



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