Compact Motorized Two-way Valves for HVAC Control

ACTIVAL

Yamatake presents **ACTIVAL**, our quality control valves with a proven track record for its high control performance and superior reliability offering the best **Energy Saving** and **Cost Benefits** into your facility ranging from air conditioning, heat source to sanitary inside buildings.



Flanged/cast iron/JIS10K



Flanged/cast iron/JIS20K

Flanged/stainless steel/JIS10K



Screwed/bronze casting/JIS10K

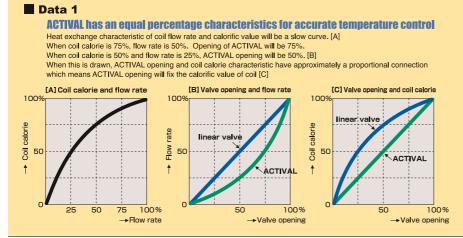


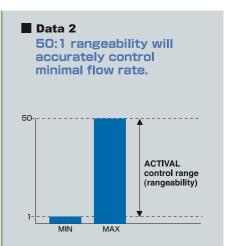


Features

- Valve and actuator integrated in a single unit, which is compact and lightweight
- Motorized two-way (water/steam) valve
- Cast iron, stainless steel or bronze casting can be selected
- Water-proof
- Low power consumption
- Installation is available for both air conditioning or refrigeration (photo 1)
- Easy maintenance of actuator
- Equal percentage characteristics (data 1)
- ■Rangeability is 50:1 (data 2)
- Shut off pressure is up to 3 inches
- Low leakage of 0.01% of rated Cv value







Applications

- ●For HVAC control
- For temperature control of heat sources or heat exchangers
- For constant temperature/humidity control in clean rooms





		ACTIVAL	
	Model No.	VY51 series	VY52 series
	Model	Flanged motorized two-way valve	Screwed motorized two-way valve
	Body pressure rating	JIS10K (0.98MPa) 、JIS20K (1.96MPa)	PN16 (1.57MPa) 、PN20 (1.96MPa)
	Size	15 mm (1/2 in.) , 25 mm (1 in.) , 40 mm (1-1/2 in.) , 50 mm (2 in.) , 65 mm (2-1/2 in.) , 80 mm (3 in.)	$15 mm \left(Rc1/2\right), 20 mm \left(Rc3/4\right), 25 mm \left(Rc1\right), 32 mm \left(Rc1-1/4\right), 40 mm \left(Rc1-1/2\right), 50 mm \left(Rc2\right)$
	Cv	1.0, *1.6, 2.5, *4.0, 6.0, 10, 16, 25, 40, 65, 95, 125 (*for steam only)	1.0, *1.6, 2.5, 4.0, 6.0, 10, 16, 25, 40 (*for steam only)
	Pressure drop	$Regular\ torque\ type:980kPa\ (15mm\sim40mm)\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	980kPa (15mm~40mm) 、490kPa (50mm)
<u>≦</u>	Body material	JIS10K: cast iron (FC200), stainless steel (SCS13A) JIS20K: ductile cast iron (FCD 450	Bronze casting (CAC406)
€	Materials	Plug, stem: stainless steel Seat ring: aluminum bronze (for water), heat-proof teflon (for	or steam) Gland packing: inorganic fiber Gasket: non-asbestos joint sheet
	Piping connection	JIS10K flange, flat face (FF): FC200 (body) / large raised face (RF): SCS13A (body) JIS20K flange, large raised face (RF): FCD450 (body)	Screwed (Rc)
	Allowable fluid temperature	For water: 0 to 150 °C, for steam: 0 to 175 °C	
	Flow characteristics	Equal percentage	
	Rangeability	50:1	
	Shut-off	0.01% or less of rated Cv value (15mm is max. 0.0006 Cv)	
*	Control signal	Relay contact feedback potentiometer/ nominal 135 Ω potentiometer input/ 4 to 20mA DC	input/ 2 to 10V DC input/ 0 to 10V DC input
×	Power consumption	24V AC ±15% 50/60Hz	

*Actuator

This has been printed on recycled paper.

Specifications are subject to change without notice.

Yamatake Corporation Building Systems Company

International Business Headquarters

Totate International Building, 2-12-19 Shibuya, Shibuya-ku, Tokyo 150-8316, Japan http://www.yamatake.com

