







# azbil

Description		Intelligent Component Series ACTIVAL+™ (Flow measurement and control valve)		
External view				
				
Model number	FVY51 series			
Type	ISO PN16 type	JIS10K type	JIS20K type	
Material: body	Gray, cast iron(EN-GJL-200(EN 1561))	cast iron (FC200)	SCPH2	
Pipe size & Cv value	DN15	Cv value : 1-6	Cv value : 1-6	Cv value : 2.5, 6
	DN25	Cv value : 10, 16	Cv value : 10, 16	Cv value : 10, 16
	DN40	Cv value : 25, 40	Cv value : 25, 40	Cv value : 25, 40
	DN50	Cv value : 65	Cv value : 65	Cv value : 65
	DN65	Cv value : 95	Cv value : 95	Cv value : 95
	DN80	Cv value : 125	Cv value : 125	Cv value : 125
	DN100	Cv value : 145	-	-
	DN125	Cv value : 234	-	-
DN150	Cv value : 350	-	-	
Pressure rating	ISO PN16 (1.6MPa)	JIS10K (1.0MPa)	JIS20K (2.0MPa)	
Close off rating	DN15-80:1.0MPa, DN125:0.5MPa, DN150:0.4MPa	1.0MPa		
Control signal	These three types are available by selecting the desired model number : 1) 4-20mA DC input, RS-485 communication (Modbus™ protocol) 2) 2-10V DC input, RS-485 communication (Modbus™ protocol) 3) 0-10V DC input, RS-485 communication (Modbus™ protocol)		These four types are available by selecting the desired model number : 1) 4-20mA DC input, RS-485 communication (Modbus™ protocol) 2) 2-10V DC input, RS-485 communication (Modbus™ protocol) 3) 0-10V DC input, RS-485 communication (Modbus™ protocol) 4) SAnet (Communication)	

Guide For Building Automation Products

## Motor & Valve Edition

### SELECTION GUIDE

A complete lineup of products to create the most comfortable indoor environments for office buildings, retail business buildings, and factories.



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## Azbil Corporation




Building Systems Company



Yamatake Corporation changed its name to Azbil Corporation on April 1, 2012.

<http://www.azbil.com>

# Motorized valve **ACTIVAL™ series**



**Compact design** — The valve and actuator are integrated as a single unit.  
Has a rangeability of 100 :1 and equal percentage characteristics. The SR type is provided with a spring return function.



Description		ACTIVAL		
External view				
	Model number	VY51 series		
	Type	ISO PN16 / JIS10K type for high differential pressure application		
Material: body		cast iron (FC200), stainless steel (SCS13A) (only for JIS10K)		
Pipe size & Cv value	DN15	Cv value : 1–6	Cv value : 2.5	—
	DN25	Cv value : 10, 16	Cv value : 6.8, 10	—
	DN40	Cv value : 25, 40	Cv value : 16, 25	—
	DN50	Cv value : 65	Cv value : 40	—
	DN65	Cv value : 95	Cv value : 65	—
	DN80	Cv value : 125	Cv value : 95	—
	DN100	—	—	Cv value : 145(ISO PN16), 180(JIS 10K)
	DN125	—	—	Cv value : 234
DN150	—	—	Cv value : 350	
Pressure rating	ISO PN16 / JIS 10K (1.0MPa)			
Close off rating	1.0MPa	0.7MPa	0.5MPa(0.4MPa at DN150)	
Control signal	These seven types are available by selecting the desired model number : 1) Floating with 135ohm pot. 2) Nominal 135ohm input 3) 4-20mA DC input 4) 2-10V DC input 5) 0-10V DC input (only for ISO type) 6) 4-20mA (with 4-20mA feedback) 7) SAnet (Communication) (Not for high differential pressure application)			These five types are available by selecting the desired model number : 1) Floating with 135ohm pot. 2) Nominal 135ohm input 3) 4-20mA DC input 4) 2-10V DC input 5) 4-20mA (with 4-20mA feedback)
Timing	53–63s			
Power supply	24V AC+/-15% 50/60Hz			


Description		ACTIVAL		
External view				
	Model number	VY51 series		
	Type	JIS20K type	Spring Return (SR) ISO PN16 / JIS10K type	
Material: body		SCPH2	cast iron (FC200), stainless steel (SCS13A) (only for JIS10K)	
Pipe size & Cv value	DN15	Cv value : 1–6	Cv value : 1–6	
	DN25	Cv value : 10, 16	Cv value : 10,16	
	DN40	Cv value : 25, 40	Cv value : 25, 40	
	DN50	Cv value : 65	Cv value : 65	
	DN65	Cv value : 95	Cv value : 95	
DN80	Cv value : 125	Cv value : 125		
Pressure rating	JIS 20K (2.0MPa)	ISO PN16 / JIS 10K (1.0MPa)		
Close off rating	1.0MPa (0.7MPa:80A)	1.0MPa (15A–50A),0.3–1.0MPa(65A),0.1–0.7MPa(80A)		
Control signal	These six types are available by selecting the desired model number : 1) Floating with 135ohm pot. 2) Nominal 135ohm input 3) 4-20mA DC input 4) 2-10V DC input 5) 0-10V DC input (only for SR type) 6) 4-20mA (with 4-20mA feedback) (only for SR type)			
Timing	53–63s	53–63s(using SR : 8 to 60s)		
Power supply	24V AC+/-15% 50/60Hz			


# Quick and simple installation!– has a "One-touch lever-locking" mechanism

**Compact design!** — The 2-way valve has an equal-percentage characteristic, and the 3-way valve has a linear characteristic. The 3-way valve can be used for mixing or diverting applications.

Description		ACTIVAL		
External view				
	Model number	Valve VY5302A	Actuator MY53X0A	VY5302C
	Material: body	Cast bronze		
Pipe size & Cv value	DN15	Cv value : 2.5,4.0		—
	DN20	Cv value : 6.3		—
	DN25	Cv value : 10		—
	DN32	Cv value : 16		—
	DN40	Cv value : 25,40		—
	DN50	Cv value : 40		—
	DN65	—		Cv value : 75
	DN80	—		Cv value : 110
Pressure rating	PN16 (1.6MPa)			
Close off rating	1.0MPa DN15–25 0.5MPa DN32–50			0.35MPa
Control signal	These seven types are available by selecting the desired model number : 1) Floating with 135ohm pot. 2) Nominal 135ohm input 3) 4-20mA DC input 4) 2-10V DC input 5) 0-10V DC input 6) Floating (3-position) 7) SAnet (Communication)			
Timing	60s			
Power supply	AC 24V+/-15%			

Description		ACTIVAL		
External view				
	Model number	Valve VY5303 (three-way valve)	Actuator MY53X0A	
	Material: body	Cast bronze		
Pipe size & Cv value	DN20	Cv value : 4.0, 6.3		
	DN25	Cv value : 10		
	DN32	Cv value : 16		
DN40	Cv value : 25			
Pressure rating	PN16 (1.6MPa)			
Close off rating	0.5MPa (DN 20,25) 0.3MPa (DN 32,40)			
Control signal	These seven types are available by selecting the desired model number : 1) Floating with 135ohm pot. 2) Nominal 135ohm input 3) 4-20mA DC input 4) 2-10V DC input 5) 0-10V DC input 6) Floating (3-position) 7) SAnet (Communication)			
Timing	50/60s (50/60Hz)			
Power supply	24V AC +/-15% 50/60Hz			

Description		ACTIVAL		
External view				
	Model number	VY54X0F (three-way valve)		
	Type	JIS10K type		
Material: body		cast iron (FC200)		
Pipe size & Cv value	DN50	Cv value:45		
	DN65	Cv value:70		
	DN80	Cv value:100		
Pressure rating	JIS10K (1.0MPa)			
Close off rating	0.3MPa (DN50) 0.2MPa (DN65) 0.15MPa (DN80)			
Control signal	These five types are available by selecting the desired model number : 1) Floating with 135ohm pot. 2) Nominal 135ohm input 3) 4-20mA DC input 4) 2-10V DC input 5) SAnet (Communication)			
Timing	53–63s			
Power supply	24V AC +/-15% 50/60Hz			

Description		3-way mixing valve + High torque actuator		
External view				
	Model number	Valve V5065A	Valve linkage /yoke set	QMY9400A1001(–DN80) QMY9400B1001(DN100–)
	Actuator	MY9402(–DN80) MY9403(DN100–)		
Valve	Pipe size & Cv value	DN100	Cv value:188	
		DN125	Cv value:280	
		DN150	Cv value:360	
Pressure Rating		PN10 (1.0MPa)		
Control signal		Floating with 135ohm pot.		
Timing		34–42s		
Power supply		100V AC, 200V AC 50/60Hz		