

Model No. AGVM with a pneumatic actuator**CV3000 Alphaplus Model No. Construction Table (AGVM Type) with pneumatic actuators**

Basic Model No.		Selection									
AGVM											
Body Nominal Size	1/2in.	1									
	3/4in.	2									
	1in.	3									
	1 1/2in.	4									
	2in.	5									
	2 1/2in.	6									
	3in.	7									
	4in.	8									
Port Size and Flow Characteristics	Cv=0.1 Linear*5	A									
	Cv=0.16 Linear*5	B									
	Cv=0.25 Linear*5	C									
	Cv=0.4 EQ%	D									
	Cv=0.63 EQ%	E									
	Cv=1.0 EQ%	F									
	Cv=1.6 EQ%	G									
	Cv=2.5 EQ%	H									
	Cv=4.0 EQ%	J									
	Cv=6.3 EQ%	4									
	Cv=8.0 EQ%	K									
	Cv=10 EQ%	L									
	1in. ,Cv=14 EQ%	M									
	1 1/2in. EQ%	N									
	1 1/2in. EQ%	P									
	2in. EQ%	R									
2 1/2in. EQ%	S										
3in. EQ%	T										
4in. EQ%	U										
Conn. Rating	JIS 16K RF	B									
	JIS 20K RF	C									
	JIS 30K RF	D									
	ANSI 300 RF	E									
	JPI 300 RF	F									
Bonnet	General Purpose (-17 to 230 deg.C)	1									
	Extension type I (230 to 400 deg.C or -45 to -17 deg.C)	2									
Body Material	SCPH2	1									
	SCS13A	2									
	SCS14A	3									
	A216WCB	A									
	A351CF8	B									
	A351CF8M	C									
Others	Enter client's requirement	9									
Plug & Seat Material	SUS316	2									
	SUS316 stellite	4									
	SUS440C	5									
	SUS316 Soft seat	6									
	SUS316 stellite face *5	7									
	SUS316L	8									
	SUS316L Stellite	A									
	SUS316L Soft seat	B									
	Others	Enter client's requirement	9								
	Seat Leakage	ClassIV (0.01% of Cv value)	1								
ClassV (Shut-off performance)(Seat:Stellite, 440C Selected)		2									
ClassVI(Shut-off performance)(Soft seat Selected)		3									
ClassIV-SI(Ultra low leakage performance) (Seat:Stellite, 440C selected)		4									
Gland Packing	PTFE Yarn (General purpose)	1									
	V shaped PTFE (for general purpose)	2									
	V shaped PTFE (For Degreasing) (delete)	A									
	V shaped PTFE(normal)+(reverse) (for vacuum service)	3									
	V shaped PTFE (for low temperature service)	5									
	Graphite yarn(for high temp. and water resistant)	4									
	Graphite yarn (High & low temp. oil resistant)	6									
	Graphite yarn(Anti-Alkaline & Acid resistant)	7									
	Graphite yarn (for Emulsion resistant)	8									
Others	Enter client's requirement	9									
Actuator and Valve Action	PSA1R Reverse (Air fail close)	A									
	PSA1D Direct (Air fail open)	B									
	PSA2R Reverse (Air fail close)	C									
	PSA2D Direct (Air fail open)	D									
	PSA3R Reverse (Air fail close)	E									
	PSA3D Direct (Air fail open)	F									
	PSA4R Reverse (Air fail close)	G									
	PSA4D Direct (Air fail open)	H									
	PSA6R Reverse (Air fail close)	J									
	Air Supply and Spring Range	140kPa {1.4kgf/cm ² }, 20 to 98kPa {0.2 to 1.0kgf/cm ² }	1								
160kPa {1.6kgf/cm ² }, 20 to 98kPa {0.2 to 1.0kgf/cm ² }		2									
270kPa {2.8kgf/cm ² }, 80 to 240kPa {0.8 to 2.4kgf/cm ² }		3									
390kPa {4.0kgf/cm ² }, 80 to 240kPa {0.8 to 2.4kgf/cm ² }		4									
490kPa {5.0kgf/cm ² }, 200 to 390kPa {2.0 to 4.0kgf/cm ² }		5									
260kPa {2.6kgf/cm ² }, 100 to 180kPa {1.0 to 1.8kgf/cm ² }		6									
Painting	Standard :Blue(M10B5/10)	1									
	Silver	2									
	Heat resistant Silver	3									
	Corrosion resistant Silver	4									
	Saline-resistant Silver	5									
	Recommend:Bolt & nut material:SUS304	5									
Others	Body/Diaphragm case/yoks Enter client's requirement	9									

(Refer to next page)

Model No. AGVM with a pneumatic actuator

Accessories

Hand wheel	No selection	X			
	Side Mount	S			
Positioner	None selection		X		
	Smart I/P [AVP300]		C		
	Smart I/P(with Position Tx) [AVP301]		D		
	Smart I/P TIIS Flameproof type [AVP300]		G		
	Smart I/P TIIS Flameproof type [AVP301] (With Motion transmitter)		H		
	Smart I/P Remote type [AVP200]		J		
	Smart I/P Remote type [AVP201] (With Motion transmitter)		K		
	Smart I/P TIIS Flameproof type [AVP200] Remote type		L		
	Smart I/P TIIS Flameproof type [AVP201] Remote type(With Motion transmitter)		M		
	I/P JIS Water-proof [HEP17]		1		
	I/P TIIS Flameproof [HEP15]		2		
	Compact Pneumatic type(PSA1 only) [VPE]		5		
	Pneumatic Std type [HTP]		6		
	Others	Enter client's requirement		9	
Pressure regulator with filter	No selection		X		
	Yes(w/o Press.Gage) [KZ03](for AVP,HEP,HTP)		1		
	Yes(w/ Press.Gage) [KZ03](for VPE)		2		
	Others	Enter client's requirement		9	
Solenoid Valve	No selection		X		
	General purpose J320G174 (ASCO)		1		
	TIIS Flameproof Type JE3J320G174 (ASCO)		3		
	JIS Flameproof Type E1335 (Yamatake)	(delete)	A		
	Others	Enter client's requirement		9	
Limit Switch	No selection		X		
	Water-proof Single mount [VCL5001]		1		
	Water-proof Dual mount [VCL5001]		2		
	TIIS Flameproof Single mount [VCX5001]		3		
	TIIS Flameproof Dual mount [VCX5001]		4		
	Others	Enter client's requirement		9	

Positioner	InputSignal:	mA, kPa, kgf/cm ²	
	Change of Action:	[]None(Direct), []Yes(Reverse) *2	
	Change of Output Characteristics:	[]None []Yes *3	
	Position Transmit'g feature: (for AVP301 only):	[]4 to 20mA,[]DE *4	
	Flameproof cablegland	HEP	[]None, []1piece
TIIS Flameproof	AVP	[]None, []1piece, []2pieces	

Solenoid Valves	Energize:	[]CV CONTROL, []CV CLOSE,[]CV OPEN,[]OTHERS	
	De-energize:	[]CV CONTROL, []CV CLOSE,[]CV OPEN,[]OTHERS	
	Power Supply	[]AC, []DC	V Hz

Limit Switch	Switching Position:	[]CLOSE,[]OPEN, []OPEN & CLOSE,[]Others	
	[]Flameproof cablegland		

Options

No selection	X
Vinyl sheathed copper tube + Cap	A
Exposed Bolt & Nut:SUS304 *1	B
Copper-free treatment (to process media)	E
Others	9

* For [Others] in the additional specification check the following items.

- []Material Certificates of Body & Bonnet.
- []Strength calculation
- []Air piping connection 1/4in. NPT
- []Flow characteristic Inspection
- []Radiographic test (RT)
- []Liquid penetrant test (PT)

High-pressure Gas regulation approval	Applicable fluid
	Gas type []Toxic gas []Flammable gas []Special HP. Gas []Others
	Grade []Grade1 []Grade2 []Grade3
	Design temperature deg.C
	Design pressure MPa
	Applicable Plant Name

*1 Applicable to Stud Bolts for Body, Bolts & Nuts for Hand Wheel, Accessories, and Actuators

*2 Positioner Action
 Direct action: Increase pneumatic output when input signal increased.
 Reverse action: Decreased pneumatic output when input signal increased.

*3 Output characteristics conversion
 In case of "None" A to C shall be Linear characteristics, and D to U shall be EQ% characteristics.
 In case of "Yes", A to C shall be EQ% characteristics, and D to U shall be Linear characteristics.
 Those above conversion shall be made by POSITIONER.

*4 AVP Position transmitting feature(AVP301 only)
 4-wire connection is required when use position transmitting feature.

DE: Digital Signal common to azbil Group.

*5 Plug & Seat materials shall be SUS316stellite face or SUS316L stellite seat when Cv values are 0.1, 0.16 and 0.25.