SINGLE SEATED VALVES VIS SERIES

Technical Data

• ACTUATOR •

Type: Spring type pneumatic diaphragm actuator Diaphragm Material: Neoprene with fabric reinforced Input Signal: Pneumatic: 0.2~1.0 kg/cm² / 3~15 psi Electric: DC 4~20mA

Valve Action: Air-to-close (Direct action) Air-to-open (Reverse action)

• BODY •

Type: Single Seated Straight-through globe valve, Non-reversible Body Material: Cast Iron, Cast Steel, SS304 and SS316 available Conneciton Size: ½" to 8"; and size up to 12" by special order End Conenction: Flanged end FF, RF and RTJ available

Flange Rating: JIS: 10, 20 kg/cm²; and option available ANSI: 150, 300LB; and option available

DIN: by special order

Bonnet Type: Standard Type

Radiator finned bonnet (200°C or over)

Extended bonnet (under 0°C)

Bellows seal bonnet (-30~+350°C, less than 10 kg/cm²) Shaft Seal Material: V-Teflon, Non-Asbestos; and others option available

• TRIM •

Valve Plug: - Equal perectage contoured or V-port

Linear contoured

On-off plug (quick open)

Trim Material: SS304, SS316 or with Stellite coating available

Soft-Seat: Tight shut off, ANSI Class IV

• ACCESSORIES •

- Pneumatic P/P positioner w/air set
- Electric I/P positioner w/air set
- Solenoid valve

Plugs for On-Off Service

The plugs for this purpose are available in two type; with soft seat (Such as teflon seat) and with metal seal (Such as stellite seat). Both type can be made bubble-tight shut-off, it is also used for quick open service.

On-off plug with soft seat (Teflon seat):

This type is used when the temperature is under 120°C.

On-off plug with metal seat:

This type is used when the use of teflon seat plug is infeasible (Such as high temperature or high pressure drop process). The metal surface is finished with careful lapping.



On-Off with Soft Seat



On-Off Plug with Metal Seat

Throttling Plugs

Plugs for throttling service are divided into those having "Equal Percentage" or "Linear" characteristics. They are also classified by shape into contoured type (C), V-port type (V).

Contoured Plugs (LC, %C)

Contoured plugs are divided into those having equal percentage contoured (%C) and linear contoured (LC) characteristics.

SINGLE SEAT



Equal Percentage Contoured (%C)



Linear Contoured (LC)

V-Port Plugs (%V, LV)

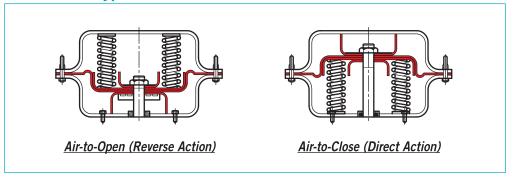
A V-port plugs also divided into those having equal percentage (%V) and linear (LV) same as contoured plugs but difference in shape.

SINGLE SEAT

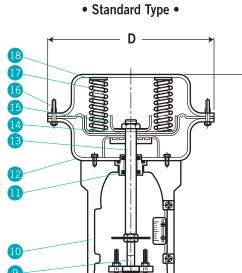


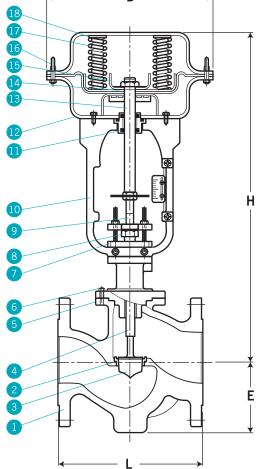
%V Port

Valve Action Type



Dimensions & Parts List





Parts & Material List:

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NO.	Parts Name	Material				
1	Body	SCS14				
2	Seat Ring	SUS316L				
3	Plug	SUS316L				
4	Guide Bushing	SUS316L				
5	Bonnet	SUS316				
6	Bolt	SUS316				
7	Yoke Nut	SS41				
8	Gland Packing Nut	SUS316				
9	Plug Stem	SUS316				
10	Yoke	Cast Iron				
11	Seal (V-Ring)	Teflon				
12	Actuator	SS41				
13	Actuator Stem	C.S				
14	Diaphragm	Neoprene				
15	Diaphragm Plate	SS41				
16	Nut	SUS304				
17	Spring	Sup-6				
18	Spring Seat	SS41				

Dimensions Data:

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Size Length	15A	20A	25A	32A	40A	50A	65A	80A	100A
D	250	250	250	250	300	300	350	350	350
Н	390	390	390	440	440	465	550	560	570
Е	45	65	80	80	80	100	110	120	130

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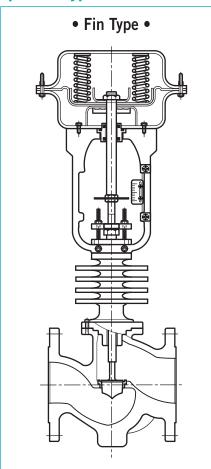
222

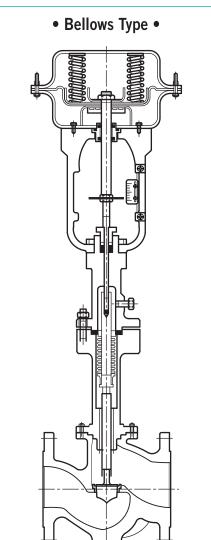
NOTE. Please consult with the manufacturer for the size bigger than 100A.

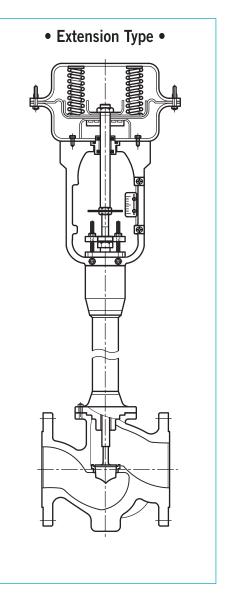
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Optional Type of Globe Control Valve







Optional Accessories

- ➤ Pneumatic P/P positioner w/air set
 ➤ Electric I/P positioner w/air set
- ➤ Solenoid valve



Ordering Information

VS	Code	Туре															
	1		gle Seated														
		Code	Body Material														
		Couo	-	(Ci) Cast Iron (Cs) Cast Steel (S4) SS304 (S6) SS316 (O) Option													
			Code														
			Vf										1				
			Code Connection Size								Option	<u>'</u>					
				(A) ½" (B) ¾" (C) 1" (D) 1½" (E) 2" (F) 2½" (G) 3" (H) 4"								1½" (G) 3" (H) 4"					
					(I) 5" (J) 6" (K) 8" (O) Option												
					Co	ode	Conn	ectio	n Ra	ting							
							(10)	JIS 1	0K	(15) AN	ISI 1	150#	(20) J	IS 20K (30) ANSI 300# (0) Others			
							Code	Во	Bonnet Type								
							1	Sta	anda	rd Type							
							2	Ra	diat	or finned	l bor	nnet (200°C (or over)			
				3 Extended bonnet (under 0°C)													
							4	Ве	Bellows seal bonnet (-30~+350°C less than 10 kg/cm²)								
								Co	ode	Plugs	for	0n-0	-Off Service or Throttling Plugs				
										On-Of		(08)	(OS) On-off plug with soft seat (Teflon seat)				
										Servic	:e	(OM) On-off	f plug with metal seat			
										-: ···		(TE)	TE) Equal percentage contoured (%C)				
										Throttl Plug		(TL) Linear contoured (LC)					
												(TV) %V port single seat nput Signal					
										Code	In						
										Α	Pr	neumatic: 0.2~1.0 kg/cm² (3~15 psi)					
										В	El	ectric	tric: 4~20mA				
											C	ode	Valve Action				
												С	Air-to-close (direct action)				
												0	Air-to-open (reverse action)				
													Code	Optional Accessories			
													1	Pneumatic P/P positioner w/air set			
													2	Electric I/P positioner w/air set			
													3	Solenoid valve (ON/OFF Type Only)			
													4	Option			
*	*	*	†	•		†	*		†	*		*	†	1			
VS														Complete Ordering Code			