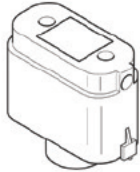
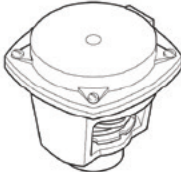
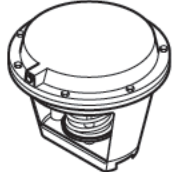


### 3. VB-7000 Valve/Actuator Assemblies

# 1/2" ... 2" 2-Way and 5/8" 3-Way Glove Valves with Pneumatic Actuators

Select Actuator Type or Actuator Code (xxx) series with correct Input Signal having sufficient close-off for the application. If selecting component parts, select Valve Body and Positive Positioner if required.

2-Way 1/2" ... 2" Globe Valves with Pneumatic Actuators										
										
Effective Area		6 Sq. in.			11 Sq. in.			50 Sq. in.		
Actuator		MK-2690			MK-4601	MK-4611	MK-4621	MK-6601	MK-6611	MK-6621
Factory Actuator Code (xxx)*		201	202	203	301	302	303	611	612	613
Spring Range (psig)		3...7	5...10	8...13	3...6	5...10	10...13	3...8	5...10	8...13
Linkage		AV-7400			AV-401			AV-430		
Positive Positioner (VK4)		AK-42309-500			AK-42309-500			AK-42309-500		
Factory Available Assembly with Positive Positioner		N.O. Valves		Yes	No	No	Yes	No	No	Yes
		N.C. Valves		No	No	Yes	No	No	Yes	No

Actuator Close-Off Pressure Rating (psi)																						
NP	Factory Available Valve Assembly	Valve Body	P Code	Size in.	Supply Air Pressure (psig)						Supply Air Pressure (psig)						Supply Air Pressure (psig)					
					15	20	15	20	15	20	15	20	15	20	15	20	15	20	15	20	15	20
2-Way N.O.	VK-7213-xxx-4-P VK4-7213-xxx-4-P VK-7214-xxx-4-P VK4-7214-xxx-4-P	VB-7213-0-4-P VB-7214-0-4-P VB-7253-0-4-P VB-7373-0-4-P	-1-2-3-4	1/2	130	220	60	170	-	90	250	250	120	250	10	200						
			-5-6	3/4	80	130	40	120	-	60	180	250	80	180	-	120						
			-7-8	1	25	70	15	50	-	25	90	150	35	100	-	65						
			-9	1 1/4	20	40	8	30	-	15	50	90	20	60	-	40						
			-10	1 1/2	14	29	5	20	-	9	30	60	10	40	-	25	170	250	110	230	40	160
			-11	2	6	14	-	10	-	-	15	30	-	20	-	-	90	160	60	120	20	90
2-Way N.C.	VK-7223-xxx-4-P VK4-7223-xxx-4-P VK-7224-xxx-4-P VK4-7224-xxx-4-P	VB-7223-0-4-P VB-7224-0-4-P VB-7263-0-4-P VB-7283-0-4-P	-1-2-3-4	1/2			50	130	30	100	250											
			-5-6	3/4			30	60	20	70	160											
			-7-8	1			9	30	5	30	60											
			-9	1 1/4			-	15	-	15	40											
			-10	1 1/2			-	10	-	10	35	40	80	170								
			-11	2			-	-	-	-	15	20	50	90								

\*Not all actuator codes are factory assembled. If the assembly is no longer available but a close-off is shown on the tables above you may order the components that make up the assembly for field assembly. Note: Only bronze bodies listed. VBS-9263-0-4-P stainless steel bodies to -06 size are available with the same close off performance.

3-Way 5/8" Globe Valves with Pneumatic Actuators																									
Positive Positioner		AK-42309-500			AK-42309-500																				
Actuator		MK-2690			MK-4601	MK-4611	MK-4621	MK-4621-422																	
Factory Actuator Code (xxx)		201	202	203	301	302	303	313																	
Spring Range (psig)		3...7	5...10	8...13	3...6	5...10	10...13	10...11.25																	
Linkage		AV-7400			AV-401			AV-430																	
Actuator Close-Off Pressure Rating (psi) <sup>ab</sup>																									
Supply Air Pressure (psig)					15/20	15	20	15/20	15	20	15/20	15	20	15/20	15	20	15/20	15	20	15/20	15	20			
Stem Positionc					SU	SD	SD	SU	SD	SD	SU	SU	SD	SU	SD	SD	SU	SD	SD	SU	SD	SD			
NP <sup>d</sup>	Valve Assembly	Valve Body	P Code	Size																					
SU <sup>c</sup>	VK-7312-xxx-4-P	VB-7312-0-4-P	-2-4	5/8"	5	100	75	60	50	135	95	5	85	35	250	250	130	220	240	250	30	170	-	-	-
	VK-7332-xxx-4-P	VB-7332-0-4-P	-2-3-4	5/8"				35	-	35				35	-	35	35	-	35						

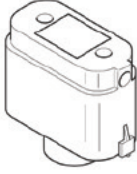
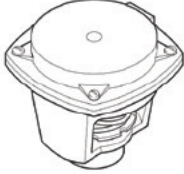
a - Close-off ratings for mixing valves: (SU = "A" port, SD = "B" port). The "A" port (SU) ratings equal pressure at Port "A" minus pressure at port "B". The "B" port (SD) ratings equal pressure at port "B" minus pressure at port "A". Close-off ratings in the table are true only when the indicated supply air pressure is applied to the actuator. A change in air pressure at the actuator alters the actual close-off pressure.

b - Close-off pressure ratings describe only the differential pressure which the actuator can close off to standards with adequate seating force. Consult valve body specifications.

c - SU - Stem Up (Flow "B" to "AB"); SD - Stem Down (Flow "A" to "AB"); Normal Position Stem Up (Flow "B" to "AB").

d - NP = Normal Position.

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3-Way Mixing & Diverting/Sequencing 1/2" ... 2" Globe Valves with Pneumatic Actuators																				
																				
Effective Area				6 Sq. In.					11 Sq. In.											
Valve Linkage				AV-7400					AV-401											
Positive Positioner				AK-42309-500					AK-42309-500											
Factory Assembly with Positive Positioner				No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes		
Actuator Code (XXX)				201	202	203	301	302	303											
Actuator				MK-2690					MK-4601	MK-4611	MK-4621									
Spring Range (psig)				3...7	5...10	8...13	3...6	5...10	10...13											
<b>Actuator Close-Off Pressure Rating<sup>abc</sup></b>																				
Supply Air Pressure (psig)				15/20	15	20	15/20	15	20	15/20	15	20	15/20	15	20	15/20	15	20	15/20	
Stem Position <sup>d</sup>				SU	SD	SD	SU	SD	SD	SU	SD	SD	SU	SD	SD	SU	SD	SD		
Valve Assembly	Valve Body	P Code	Size In.	-																
VK-7313-XXX-4-P VK4-7313-XXX-4-P VK-7314-XXX-4-P VK4-7314-XXX-4-P	VB-7313-0-4-P VB-7314-0-4-P	-2-4	1/2	150	150	50	60	170	100	90	30	250	250	100	150	250	250	35	200	
		-6	3/4	60	120	30	40	100	60	60	20	180	230	70	80	180	160	15	120	
		-8	1	30	60	9	15	50	30	25	5	90	150	30	40	100	60	5	65	
		-9	1 1/4			8	30	15	15			50	90	15	25	60	40		40	
		-10	1 1/2					20	10	9	-	30	60	10	15	40	35		-	25
		-11	2					10	-	-		15	30	-	5	20	15			10
VK-7323-XXX-4-P VK4-7323-XXX-4-P	VB-7323-0-4-P	-4	1/2	250																
		-6	3/4																	
		-8	1																	
		-9	1 1/4																	
		-10	1 1/2																	
		-11	2																	

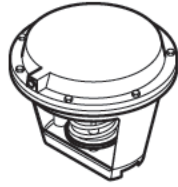
a - Close-off ratings for mixing or sequencing valves: (SU = "A", SD = "B" port). "A" port (SU) ratings equal pressure at port "A" minus pressure at port "B". "B" port (SD) ratings equal pressure at port "B" minus pressure at port "A". Close-off ratings in the table are true only when the indicated supply air pressure is applied to the actuator. A change in air pressure at the actuator alters the actual close-off pressure.

b - Close-off pressure ratings describe only the differential pressure which the actuator can close-off with adequate seating force. Consult valve body specifications for other limitations.

c - Mixing valves can be used in a diverting application but diverting valves can not be used in mixing applications.

d - SU- Stem Up; SD- Stem Down. Refer to Pg. 29, 2. VB-7000 Series 1/2" ... 2" Globe Valves for flow pattern, port designations and normal position.

3. VB-7000 Valve/Actuator Assemblies

3-Way Mixing & Diverting/Sequencing 1½" & 2" Globe Valves with Pneumatic Actuators												
												
Effective Area (stroke)				50 Sq. In. (½ In.)								
Valve Linkage VB-7313-0-4-P				AV-430								
Valve Linkage VB-7323-0-X-P				AV-430								
Positive Positioner				AK-42309-500								
Factory Assembly with Positive Positioner				No			Yes			Yes		
Actuator Code (XXX)				611			612			613		
Actuator				MK-6601			MK-6611			MK-6621		
Spring Range (psig)				3...8			5...10			8...13		
				Actuator Close-Off Pressure Rating (psi) <sup>abc</sup>								
Supply Air Pressure (psig)				15/20	15	20	15/20	15	20	15/20	15	20
Stem Position <sup>d</sup>				SU	SD	SD	SU	SD	SD	SU	SD	SD
Valve Assembly	Valve Body	P Code	Size In.	-								
VK-7313-XXX-4-P	VB-7313-0-4-P	-10	1½	40	170	250	80	110	230	170	30	160
VK4-7313-XXX-4-P	VB-7314-0-4-P	-11	2	20	90	160	50	60	120	90	15	90
VK-7323-XXX-4-P	VB-7323-0-4-P	-10	1½	250								
VK4-7323-XXX-4-P		-11	2									

a - Close-off ratings for mixing or sequencing valves: (SU = "A", SD = "B" port). "A" port (SU) ratings equal pressure at port "A" minus pressure at port "B". "B" port (SD) ratings equal pressure at port "B" minus pressure at port "A". Close-off ratings in the table are true only when the indicated supply air pressure is applied to the actuator. A change in air pressure at the actuator alters the actual close-off pressure.

b - Close-off pressure ratings describe only the differential pressure which the actuator can close-off to standards with adequate seating force. Consult valve body specifications for other limitations.

c - Mixing valves can be used in a diverting application but diverting valves can not be used in mixing applications.

d - SU- Stem Up; SD- Stem Down. Refer to Pg. 29, 2. VB-7000 Series ½"...2" Globe Valves for flow pattern, port designations and normal position.