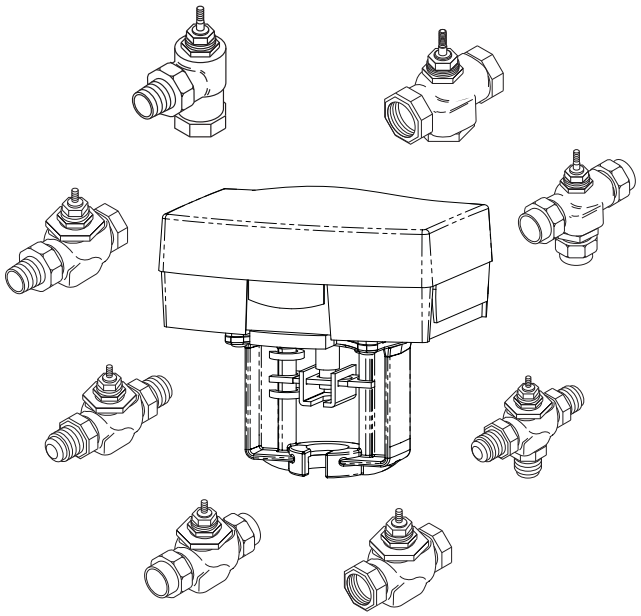
Selection Guide

TAC™ VB-7000 Series 1/2" to 2" Globe Valves with TAC Forta™ M400A (VB), M800A (VB), and M1500A (VB) Series Actuators

Applications

TAC Forta M400A-VB, M800A-VB, and M1500A-VB Screw Mount style linear actuators mount directly onto 1/2" to 2" VB-7xxx series two-way and three-way globe valve bodies that can be field assembled or ordered as factory assemblies. TAC Forta M400A, M800A and M1500A U-Bolt style linear actuators can be field mounted to a VB-7000 valve with the AV-811 linkage. Applications include chilled or hot water and steam. Field selectable input signals include reverse and direct acting, floating or proportional 0-10 Vdc, 2-10 Vdc, or 4-20 mAdc, and proportional sequencing input signal ranges[1].



Applicable Literature

- TAC Forta M400A (VB) Series, M800A (VB) Series, and M1500A (VB) Series Installation Instructions, (F-27599)
- AV-811 Installation Instructions (U-Bolt style only), F-27442
- TAC Valves catalog, F-27414
- CA-28 Control Valve Sizing, F-13755

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1. 0-5 Vdc, 5-10 Vdc, 2-6 Vdc, and 6-10 Vdc

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Valve and Actuator Selection Procedure

1. **Determine the required flow coefficient (Cv/kvs).**
   Using the required flow and pressure drop for the application (consult CA28, F-13755 if necessary), determine the required flow coefficient.
2. **Determine valve body part number.**
   Select a two-way valve body from Table-1 or a three-way mixing or diverting valve body from Table-2 having the required flow coefficient, size, body pattern, end connection, and temperature/pressure ratings appropriate for the application.
3. **Select the Forta Actuator**

   Using the required close-off pressure for the application, consult Table-5 and select a Forta actuator having sufficient close-off pressure on the valve body selected in Step 2. Additional Forta actuator specifications may be found in Table-3 or in the Forta Installation Instructions sheets shown in *Applicable Literature*.
4. **Determine Assembly Part Number**

   If a complete valve and actuator assembly is required, consult Table-3 for the actuator code of the Forta actuator selected in Step 3. For the complete assembly part number:

   - Change the valve body part number prefix from VB to VU.
   - Insert the actuator code in the third field of the part number.
   - Confirm the availability of the factory assembly by consulting Table-6 (two-way valves), Table-7 (three-way mixing valves), or Table-8 (three-way diverting valves).

   Example:

   - Valve body: VB-7213-0-4-4
   - Actuator: M400A-VB (actuator code 674 from table 3)
   - Complete assembly: VU-7213-674-4-4

Forta actuators are field configured for the desired control signal type and range plus the desired action. Consult the appropriate Forta Installation Instructions for further information (see *Applicable Literature, F-27599*).

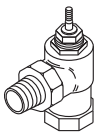
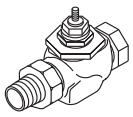
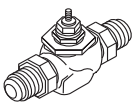
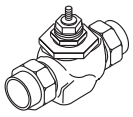
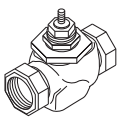
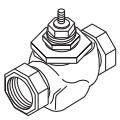
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Valve Body and Actuator Selection

Table-1 TAC VB-72xx Series Two-Way Valve Bodies

Two-Way Valves

- Stem Up Open or Stem Up Closed
- 1/2” to 1/1/4” Union Angle and straightway
- 5/8” OD SAE Flared
- 1/2” to 2” Union Sweat
- 1/2” to 2” NPT or Rp Threaded

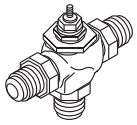
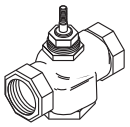
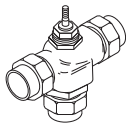
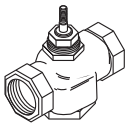
		Application: Chilled or Hot Water					Application: Hot Water or Steam	
								
		Union Angle	Union Straightway	SAE Flared	Union Sweat	NPT Threaded Rp Threaded	NPT Threaded	
Size		1/2” to 1-1/4”	1/2” to 1-1/4”	5/8” OD	1/2” to 2”	1/2” to 2” 15 to 50 mm	1/2” to 2”	
Valve Body Part Number, Stem Up Open		VB-7211-0-3-P	VB-7211-0-4-P	VB-7212-0-4-P	VB-7214-0-4-P	VB-7213-0-4-P VB-7215-0-4-P[a]	VB-7253-0-4-P	VB-7273-0-4-P
Valve Body Part Number, Stem Up Closed		—	VB-7221-0-4-P	VB-7222-0-4-P	VB-7224-0-4-P	VB-7223-0-4-P VB-7225-0-4-P[a]	VB-7263-0-4-P	VB-7283-0-4-P
Flow Type		Equal %					Modified Linear	
Material	**Body**	Bronze					Bronze	
	Seat	Bronze					Stainless Steel	
	Stem	Stainless Steel					Stainless Steel	
	Plug	Brass					Stainless Steel	
	Packing	Spring Loaded TFE/EPDM					Spring Loaded TFE	
	Disc	EPDM					Teflon	None
Pressure Class		ANSI 250 Up to 400°F (204°C) below 150°F (65°C) ISO PN16						
Maximum Inlet Pressure, Steam		35 PSIG (241 kPa)					100 PSIG (690 kPa)	150 PSIG (1034 kPa)
Allowable Control Media Temperature		20°F to 281 °F (-7°C to 138°C)					20 to 340°F (-7 to 171°C)	20 to 400°F (-7 to 205°C
Allowable Differential Pressure, Water[b]		35 PSI (241 kPa) for Normal Life					35 PSIG (241 kPa)	35 PSIG (241 kPa)
Allowable Differential Pressure, Steam[b]		20 PSI (138 kPa)					35 PSI (241 kPa)	50 PSI (345 kPa)
To Select a Port Code (P)								
P Code	**Valve Size**	**Cv (kvs) Rating**						
01	1/2” (15 mm)	0.4 (0.34)	0.4 (0.34)	0.4 (0.34)	0.4 (0.34)	0.4 (0.34)	0.4 (0.34)	0.4 (0.34)
02		1.3 (1.1)	1.3 (1.1)	1.3 (1.1)	1.3 (1.1)	1.3 (1.1)	1.3 (1.1)	1.3 (1.1)
03		2.2 (1.9)	2.2 (1.9)	2.2 (1.9)	2.2 (1.9)	2.2 (1.9)	2.2 (1.9)	2.2 (1.9)
04		5.0 (4.3)	4.4 (3.8)	4.4 (3.8)	4.4 (3.8)	4.4 (3.8)	4.4 (3.8)	4.4 (3.8)
05	3/4” (20 mm)	5.5 (4.7)	5.5 (4.7)	—	5.5 (4.7)	5.5 (4.7)	5.5 (4.7)	5.5 (4.7)
06		8.5 (7.4)	7.5 (6.5)	—	7.5 (6.5)	7.5 (6.5)	7.5 (6.5)	7.5 (6.5)
07	1” (25 mm)	14 (12)	10 (8.6)	—	10 (8.6)	10 (8.6)	10 (8.6)	10 (8.6)
08		16 (14)	14 (12)	—	14 (12)	14 (12)	14 (12)	14 (12)
09	1-1/4” (32 mm)	22 (19)	20 (17.3)	—	20 (17.3)	20 (17.3)	20 (17.3)	20 (17.3)
10	1-1/2” (40 mm)	—	—	—	28 (21.2)	28 (21.2)	28 (21.2)	28 (21.2)
11	2” (50 mm)	—	—	—	40 (34.6)	40 (34.6)	40 (34.6)	40 (34.6)

[a] 15 to 50 mm valves with metric thread Rp 1/2 to Rp 2

[b] Maximum recommended differential in full open position. Do not exceed recommended differential pressure (pressure drop) or integrity of parts may be affected.

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Table-2 TAC VB-73xx Series Three-Way Valve Bodies

Three-Way Valves • Mixing or Diverting • 5/8" OD SAE Flared • 1/2" to 2" NPT or Rp Threaded • 1/2" to 2" Union Sweat		**Application: Chilled or Hot Water**			
					
		SAE Flared	NPT Threaded Rp Threaded	Union Sweat	NPT Threaded
Size		5/8" OD	1/2" to 2" 15 to 50 mm	1/2" to 2"	1/2" to 2"
Valve Body Part Number, Mixing [a]		VB-7312-0-4-P	VB-7313-0-4-P VB-7315-0-4-P[b]	VB-7314-0-4-P	—
Valve Body, Part Number Diverting [c]		—	—	—	VB-7323-0-4-P
Flow Type		Equal %			
Material	**Body**	Bronze			
	Seat	Bronze			
	Stem	Stainless Steel			
	Plug	Brass			
	Packing	Spring Loaded TFE/EPDM			
	Disc	None			
Pressure Class		ANSI 250 Up to 400°F (204°C) below 150°F (65°C)			ISO PN16
Allowable Control Media Temperature		20°F to 281 °F (-7°C to 138°C)			
Allowable Differential Pressure, Water[d]		35 PSI (241 kPa) for Normal Life			
To Select a Port Code (P)					
P Code	**Valve Size**	**Cv (kvs) Rating**			
02	1/2" (15 mm)	2.2 (1.9)	2.2 (1.9)	2.2 (1.9)	—
04		4.4 (3.8)	4.4 (3.8)	4.4 (3.8)	4.4 (3.8)
06	1" (25 mm	—	7.5 (6.5)	7.5 (6.5)	7.5 (6.5)
08		—	14 (12)	14 (12)	15 (13)
09	1-1/4" (32 mm)	—	20 (17.3)	20 (17.3	20 (17.3)
10	1-1/2" (40 mm)	—	28 (21.2)	28 (21.2)	28 (21.2)
11	2" (50 mm)	—	41 (36)	40 (34.6)	40 (34.6)

[a] On VB-7313 and VB-7315 mixing valves, port AB is the common port (located on the side) and ports A and B are inlets. Flow is from B to AB when the valve stem is in up position (port A closed). Flow is from A to AB when valve stem is in down position (port B closed).

[b] 15 to 50 mm valves with metric thread Rp 1/2 to Rp 2

[c] On VB-7323 diverting valves, inlet port B is the common port (located on the bottom) and ports AB and B are outlets. When the valve stem is in the up position, flow is from B to AB (port A closed). When the valve stem is in the down position, flow is from port B to A (port AB closed).

[d] Maximum recommended differential in full open position. Do not exceed recommended differential pressure (pressure drop) or integrity of parts may be affected.

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Table-3 TAC Forta Actuator Model Chart

Model	Actuator Code	Linkage Kit	Force, lbf (N)	Power	Running VA	Transformer Sizing VA	Floating Control[a]	Proportional Control[a]	Feedback	(2) SPDT Auxiliary Switches
M400A [c]	— [b]	AV-811[c]	90 (400)	24 Vac ±10% 50/60 Hz	6	30	Yes	0-10 Vdc, 2-10 Vdc, or 4-20 mAdc	2-10 Vdc	No
M400A-VB	674	—								
M400A-S2 [c]	— [b]	AV-811[c]								24 Vac 4A
M400A-S2-VB	— [b]	—								
M800A [c]	— [b]	AV-811[c]	180 (800)		15	50				No
M800A-VB	680	—								
M800A-S2 [c]	— [b]	AV-811[c]								24 Vac 4A
M800A-S2-VB	— [b]	—								
M1500A [cd]	— [b]	AV-811[c]	337 (1500)		15	50				No
M1500A-VB[d]	686	—								
M1500A-S2 [cd]	— [b]	AV-811[c]								24 Vac 4A
M1500A-S2-VB[d]	— [b]	—								

[a] DIP switch selectable.
[b] No actuator code. No factory assemblies offered.
[c] AV-811 linkage (order separately) required for mounting actuators to VB-7xxx globe valve bodies using U-Bolt style Forta.
[d] Do not use M1500 actuators on VB-7323 three way diverting valves.

Table-4 Restrictions on Ambient Temperature for Forta Valve Actuators

Fluid Temperature in Valve Body	Maximum Allowable Ambient Temperature[a]
Chilled Water	122°F (50°C)
281°F (138°C)	113°F (45°C)
300°F (149°C)	107°F (42°C)
340°F (171°C)	100°F (38°C)
366°F (186°C)	90°F (32°C)

[a] Minimum allowable ambient operating temperature 14°F (-10°C)

Note: When installing valve and actuator assemblies, observe the minimum and maximum fluid and ambient temperature limits shown in Table-1, Table-2, and Table-4.

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Table-5 Select Valve/Actuator Combination Having Sufficient Close-off for Application

Valve Body			Close-off Ratings, psi (kPa)		
Two-Way Valves	P Code	Size	M400A- (VB)	M800A- (VB)	M1500A- (VB)
VB-7211-0-3-P VB-7211-0-4-P VB-7212-0-4-P VB-7213-0-4-P VB-7214-0-4-P VB-7215-0-4-P VB-7221-0-4-P VB-7222-0-4-P VB-7223-0-4-P VB-7224-0-4-P VB-7225-0-4-P VB-7253-0-4-P VB-7263-0-4-P VB-7273-0-4-P VB-7283-0-4-P	-01, -02, -03, -04	1/2” (15 mm)	250 (1712)	250 (1712)	—
	-05, -06	3/4” (20 mm)	198 (1356)	250 (1712)	—
	-07, -08	1” (25 mm)	92 (630)	207 1418)	—
	-09	1-1/4” (32 mm)	56 (384)	130 (890)	—
	-10	1-1/2” (40 mm)	37 (253)	88 (603)	177 (1212) [a]
	-11	2” (50 mm)	19 (130)	48 (329)	98 (671) [a]
Three-Way Valves	P Code	Size	M400A (VB) [a]	M800A (VB) [a]	M1500A (VB) [a]
VB-7312-0-4-P VB-7313-0-4-P VB-7314-0-4-P VB-7315-0-4-P	-02, -04	1/2” (15 mm)	250 (1712)	250 (1712)	—
	-06	3/4” (20 mm)	198 (1356)	250 (1712)	—
	-08	1” (25 mm)	92 (630)	207 1418)	—
	-09	1-1/4” (32 mm	56 (384)	130 (890)	—
	10	1-1/2” (40 mm)	37 (253)	88 (603)	—
	-11	2” (50 mm)	19 (130)	48 (329)	—
VB-7323-0-4-P	-04, -06, -08, -09, -10, -11	1/2” to 2”	250 (1712)		Do Not Use [a]

[a] Do not use M1500A on VB-7323 three-way valves.

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Factory Assemblies

Table-6 Factory Valve and Actuator Assemblies — Two-Way Valves [a]

			Actuator Model (Actuator Code [b])		
Valve Assembly Part Number [b]	**P Code [b]**	**Size**	**M400A-VB (674)**	**M800A-VB (680)**	**M1500A-VB (686)**
VU-7213-xxx-4-P VU-7253-xxx-4-P VU-7273-xxx-4-P	-01, -02, -03, -04	1/2”	X	—	—
	-05, -06	3/4”	X	X	—
	-07, -08	1”	X	X	—
	-09	1-1/4”	X	X	—
	10	1-1/2”	X	X	X
	11	2”	X	X	X

[a] See Table-5 for close-off pressures
[b] Insert Actuator Code in third field of assembly part number. Insert P Code in last field of assembly part number.

Table-7 Factory Valve and Actuator Assemblies — Three-Way Mixing Valves [a]

			Actuator Model (Actuator Code [b])	
Valve Assembly Part Number [b]	**P Code [b]**	**Size**	**M400A-VB (674)**	**M800A-VB (680)**
VU-7313-xxx-4-P	-02, -04	1/2”	X	—
	-06	3/4”	X	—
	-08	1”	X	—
	-09	1-1/4”	X	—
	10	1-1/2”	X	X
	11	2”	X	X

[a] See Table-5 for close-off pressures
[b] Insert Actuator Code in third field of assembly part number. Insert P Code in last field of assembly part number.

Table-8 Factory Valve and Actuator Assemblies — Three-Way Diverting Valves [a]

			Actuator Model (Actuator Code [b])
Valve Assembly Part Number [b]	**P Code [b]**	**Size**	**M400A-VB (674)**
VU-7323-xxx-4-P	-04	1/2”	X
	-06	3/4”	X
	-08	1”	X
	-09	1-1/4”	X
	10	1-1/2”	X
	11	2”	X

[a] See Table-5 for close-off pressures
[b] Insert Actuator Code in third field of assembly part number. Insert P Code in last field of assembly part number.

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Dimensions

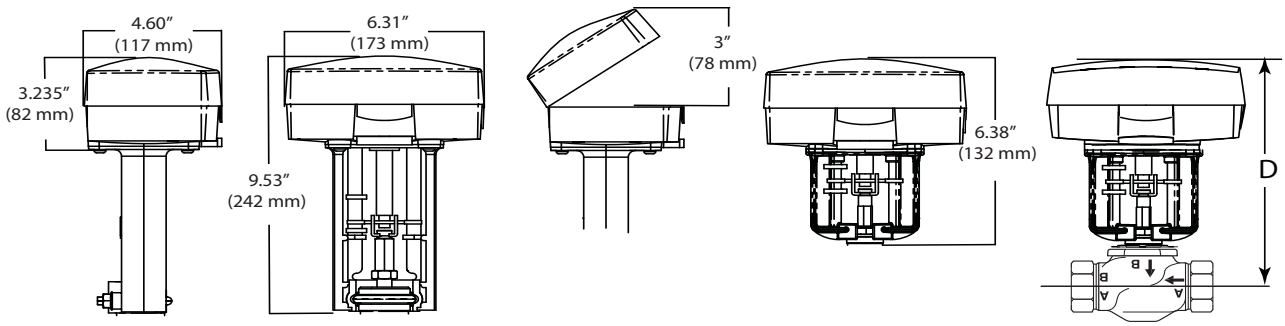


Figure-1 Forta Actuator Dimensions

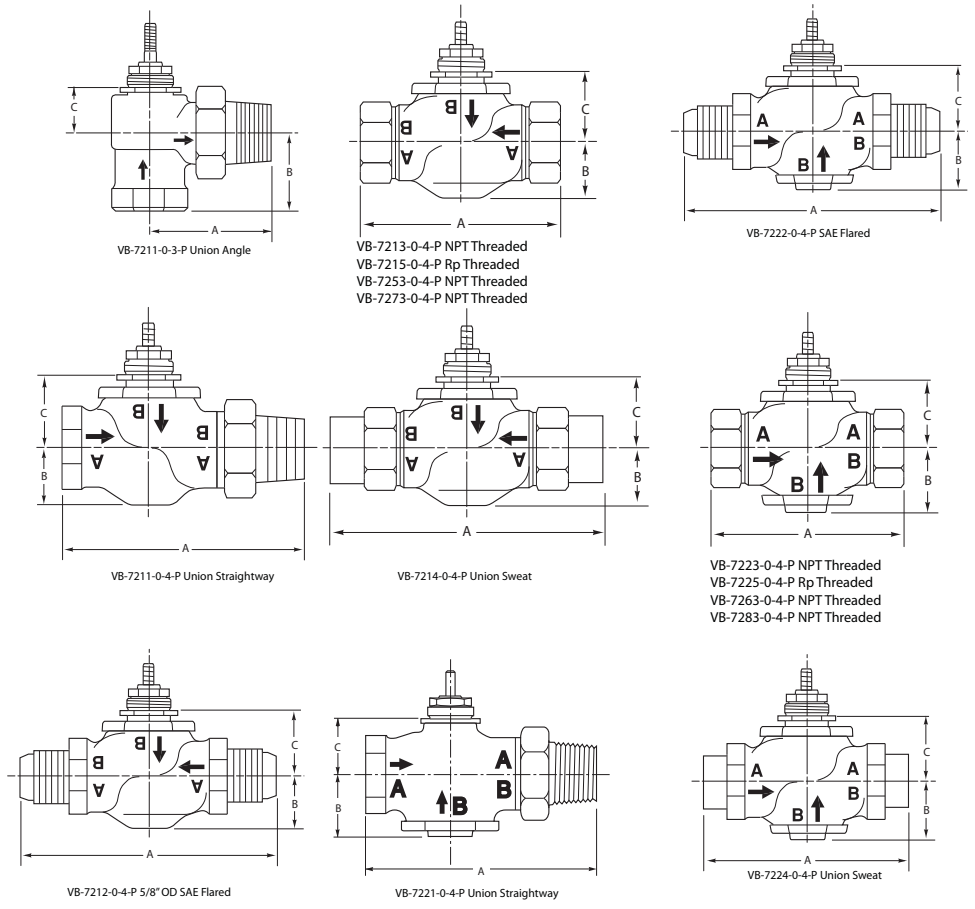


Figure-2 Two Way VB-7xxx Valve Body Dimensions

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Table-9 Dimensions — Two-Way Valves (see Figure-1 and Figure-2)

Valve Body Part Number	Size	Dimensions in Inches (mm)				
		A	B	C	U-Bolt Style[a]-D	Screw Mount Style[a]-D
VB-7211-0-3-P	1/2“	3-1/8 (79)	1-5/8 (41)	3/4 (19)	10-9/32 (261)	7-13/32 (188)
	3/4 “	3-5/8 (92)	1-11/16 (43)	15/16 (24)	10-15/32 (266)	7-19/32 (193)
	1 “	4-1/16 (103)	1-15/16 (49)	1-1/4 (32)	10-25/32 (274)	7-29/32 (201)
	1-1/4 “	4-5/16 (110)	2-3/16 (56)	1-11/16 (43)	11-7/32 (285)	8-11/32 (212)
VB-7211-0-4-P	1/2 '	4-3/16 (106)	1-1/16 (27)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	3/4“	4-15/16 (125)	1-1/16 (27)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	1“	6 (152)	1-1/8 (29)	1-3/16 (30)	10-23/32 (272)	7-27/32 (199)
	1-1/4“	6-1/4 (159)	1-3/8 (35)	1-7/16 (37)	10-31/32 (279)	8-3/32 (206)
VB-7212-0-4-P	5/8“ O.D.	4 (102)	1-1/16 (27)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
VB-7213-0-4-P VB-7215-0-4-P VB-7253-0-4-P VB-7273-0-4-P	1/2” (15 mm)	3 (76)	1-1/16 (27)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	3/4“ (20 mm)	3-5/8 (92)	1-1/16 (27)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	1“ (25 mm)	4-5/8 (117)	1-1/8 (29)	1-3/16 (30)	10-23/32 (272)	7-27/32 (199)
	1-1/4“ (32 mm)	4-5/8 (117)	1-3/8 (35)	1-7/16 (37)	10-31/32 (279)	8-3/32 (206)
	1-1/2 (40 mm)	5-3/8 (137)	1-1/2 (38)	1-7/8 (48)	11-13/32 (290)	8-17/32 (217)
	2“(50 mm)	6-1/8 (156)	1-9/16 (40)	2-1/854)	11-21/32 (296)	8-25/32 (223)
VB-7214-0-4-P	1/2“	4-3/16 (106)	1-1/16 (27)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	3/4“	5-7/16 (138)	1-1/16 (27)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	1“	6-5/8 (168)	1-1/8 (29)	1-3/16 (30)	10-23/32 (272)	7-27/32 (199)
	1-1/4“	6-13/16 (173)	1-3/8 (35)	1-7/16 (37)	10-31/32 (279)	8-3/32 (206)
	1-1/2“	8-5/16 (211)	1-1/2 (38)	1-7/8 (48)	11-13/32 (290)	8-17/32 (217)
	2“	9-3/16 (233)	1-9/16 (40)	2-1/854)	11-21/32 (296)	8-25/32 (223)
VB-7221-0-4-P	1/2”	4-3/16 (106)	1-1/4 (32)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	3/4”	4-15/16 (125)	1-1/4 (32)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	1”	6 (152)	1-3/4 (45)	1-3/16 (30)	10-23/32 (272)	7-27/32 (199)
	1-1/4”	6-1/4 (159)	1-3/4 (45)	1-7/16 (37)	10-31/32 (279)	8-3/32 (206)
VB-7222-0-4-P	5/8” OD	4 (102)	1-1/4 (32)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
VB-7223-0-4-P VB-7225-0-4-P VB-7263-0-4-P VB-7283-0-4-P	1/2” (15 mm)	3-1/16 (78)	1-3/16 (30)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	3/4“ (20 mm)	3-5/8 (92)	1-3/16 (30)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	1“ (25 mm)	4-5/8 (117)	1-3/4 (44)	1-3/16 (30)	10-23/32 (272)	7-27/32 (199)
	1-1/4“ (32 mm)	4-5/8 (117)	1-3/4 (44)	1-7/16 (37)	10-31/32 (279)	8-3/32 (206)
	1-1/2 (40 mm)	5-3/8 (137)	1-13/16 (46)	1-9/16 (40)	11-3/32(282)	8-7/32 (209)
	2“ (50 mm)	6-1/8 (156)	2-1/4 (57)	1-5/8 (42)	11-5/32 (283)	8-9/32 (210)
VB-7224-0-4-P	1/2”	4-3/16 (106)	1-1/4 (32)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	3/4”	5-7/16 (138)	1-1/4 (32)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	1”	6-5/8 (168)	1-3/4 (45)	1-3/16 (30)	10-23/32 (272)	7-27/32 (199)
	1-1/4”	6-13/16 (173)	1-3/4 (45)	1-7/16 (37)	10-31/32 (279)	8-3/32 (206)
	1-1/2”	8-5/16 (211)	1-13/16 (45)	1-9/16 (40)	11-3/32(282)	8-7/32 (209)
	2”	9-3/16 (233)	2-1/16 (53)	1-5/8 (42)	11-5/32 (283)	8-9/32 (210)

[a] Assembly height, centerline of valve body to top of actuator (see Figure-1). Leave an additional 3” (76 mm) clearance for cover removal.

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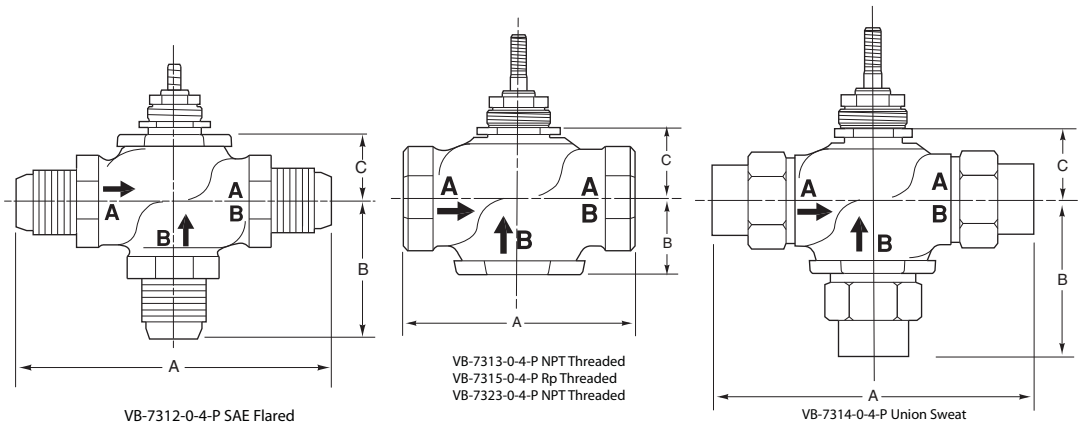


Figure-3 Three-Way VB-73xx Valve Body Dimensions

Table-10 Dimensions — Three-Way Valves (see Figure-1 and Figure-3)

Valve Body Part Number	Size	Dimensions in Inches (mm)				
		A	B	C	U-Bolt Style[a]-D	Screw Mount Style[a]-D
VB-7312-0-4-P	5/8" OD	4 (102	2-1/4 (57)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
VB-7313-0-4-P VB-7315-0-4-P	1/2" (15 mm)	3-1/16 (76)	1-3/4 (44)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	3/4"" (20 mm)	3-5/8 (92)	1-13/16 (46)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	1" (25 mm)	4-5/8 (118)	1-3/4 (44)	1-3/16 (30)	10-23/32 (272)	7-27/32 (199)
	1-1/4" (32 mm)	4-5/8 (118)	1-3/4 (44)	1-7/16 (37)	10-31/32 (279)	8-3/32 (206)
	1-1/2" (40 mm)	5-3/8 (137)	1-13/16 (46)	1-9/16 (40)	11-3/32(282)	8-7/32 (209)
	2" (50 mm)	6-1/8 (156)	2-1/4 (57)	1-5/8 (42)	11-5/32 (283)	8-9/32 (210)
VB-7314-0-4-P	1/2"	4-3/16 (106)	2-5/16 (59)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	3/4"	5-7/16 (138)	2-5/8 (67)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	1"	6-5/8 (168)	3-3/16 (81)	1-3/16 (30)	10-23/32 (272)	7-27/32 (199)
	1-1/4"	6-13/16 (173)	3-7/16 (87)	1-7/16 (37)	10-31/32 (279)	8-3/32 (206)
	1-1/2"	8-5/16 (211)	3-3/4 (95)	1-9/16 (40)	11-3/32(282)	8-7/32 (209)
	2"	9-3/16 (233)	4-3/16 (106)	1-5/8 (42)	11-5/32 (283)	8-9/32 (210)
VB-7323-0-4-P	1/2"	3-1/16 (76)	1-3/8 (35)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	3/4"	3-5/8 (92)	1-11/16 (43)	1-1/8 (29)	10-21/32 (271)	7-25/32 (198)
	1"	4-5/8 (118)	1-9/16 (40)	1-3/16 (30)	10-23/32 (272)	7-27/32 (199)
	1-1/4"	4-5/8 (118)	1-5/8 (41)	1-7/16 (37)	10-31/32 (279)	8-3/32 (206)
	1-1/2"	5-3/8 (137)	1-11/16 (43)	1-9/16 (40)	11-3/32(282)	8-7/32 (209)
	2"	6-1/8 (156)	1-7/8 (48)	1-5/8 (42)	11-5/32 (283)	8-9/32 (210)

[a] Assembly height, centerline of valve body to top of actuator (see Figure-1). Leave an additional 3" (76 mm) clearance for cover removal.

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