



# Unibody Apparatus

The answer to all your apparatus valve needs — the Unibody Apparatus Valve. The Unibody ball valve has been designed to be dimensionally identical to the Akron Brass heavy-duty apparatus valves for cross compatibility. Additionally, Elkhart's Unibody ball valve has a single body design to simplify both configuration and installation.

A unique aspect of the Unibody valve actuator is the ability to be easily interchanged among the various Unibody valve sizes to simplify selecting or changing actuators. Just remove 4 bolts, and you can change the actuator on any Unibody Valve without breaking the waterway or internal plumbing.

- All valve materials are designed for endurance. (See chart on page 8-9 for specifics)
- Ball valves have dual self-adjusting seats, which provide bi-directional sealing and do not require O-rings that might cut and tear during servicing
- Ball valves feature swing-out construction, which allows for easy access to internal waterway without removing the valve from the truck plumbing
- Butterfly valves are bi-directional
- Adapters (end caps) and pump flanges are constructed of either brass or stainless steel
- Actuators are interchangeable — a valve may be easily converted to different actuation type without the need to break the waterway
- Durable handles and handle stops ensure dependability
- Manual handles may be easily changed to different positions by removing a single bolt
- The electric valve utilizes a three-inch extreme duty motor and gearbox for ultimate reliability
- Maximum working pressure rated to 250 psi (SB10, SB15, & EB15-EB35). EB40 rated to 250 psi if flow is in the direction of the arrow and 150 psi if in the opposite direction.
- Static pressure tested to 600 psi (SB10, SB15, & EB15-EB35) closed or open. EB40 is static pressure tested to 150/500 psi depending on which side pressure is applied when valve is closed, and 500 psi when valve is open.
- The Unibody valves meet or exceed NFPA 1901 standards



# APPARATUS VALVES

## UNIBODY APPARATUS

# APPARATUS VALVES

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For order assistance, download the Unibody Configurator at [www.ElkhartBrass.com](http://www.ElkhartBrass.com)

EB   -     -     -

Valve body	Page 8-9	1.5" Ball valve body	1	5																	
		2.0" Ball valve body	2	0																	
		2.5" Ball valve body	2	5																	
		3.0" Ball valve body	3	0																	
		3.5" Ball valve body	3	5																	
		4.0" Flat ball valve body	4	0																	
		3.0" Butterfly valve body	3	B																	
		4.0" Butterfly valve body	4	B																	
		4.0" High performance butterfly valve body	4	J																	
		5.0" Butterfly valve body	5	B																	
		5.0" High performance butterfly valve body	5	J																	
		6.0" Butterfly valve body	6	B																	
		6.0" High performance butterfly valve body	6	J																	
		6.0" High performance butterfly valve body (SS)	6	S																	
		6.0" High efficiency butterfly valve body	6	D																	
8.0" Butterfly valve body	8	B																			
8.0" High performance butterfly valve body	8	J																			
8.0" High performance butterfly valve body (SS)	8	S																			

Adapters (endcaps)	Page 8-15	No inlet endcap	0	0	0	0	0																
		Hose thread	EB15 -EB40		H																		
		Pipe thread (NPT)		N																			
		Victaulic		V																			
		Flex hose		F																			
		Pump flange		P																			
		Solder		S																			
		Weld (SS)		W																			
		Inlet	Page 8-11	Female	EB15 -EB40		F																
				Male		M																	
				Non-gender adapter		A																	
				4 bolt (pump flange)		4																	
				8 bolt (pump flange)		8																	
		Page 8-13	Two digit listing	EB15 -EB40				X	X														
			Blank - no taps	EB15 -EB40						B													
Integrated check valve			C																				
Drain & pressure tap			D																				
Outlet	Repeat Inlet Steps	No outlet endcap						0	0	0	0												
		Same options as available for inlet end cap	EB15 -EB40																				

Valve actuator <small>(remote push/pull rods and assemblies, handwheels, and electric controllers are ordered separately on page 8-17)</small>	Page 8-9	No actuator				0	0	0													
		Direct handle (long)	EB15 - EB35		D	1															
		Direct handle with chrome cover (long)		D	2																
		Direct handle (short)		D	3																
		Direct handle with chrome cover (short)		D	4																
		Electric	All (except EB6D)		E	1															
		Electric	EB6D		E	2															
		Gear	All (except EB6D)		G	1															
		Gear	EB6D		G	2															
		Remote short handle (self-locking)	EB15 - EB35		R	1															
		Remote long handle (self-locking)		R	2																
		Remote short handle (non-locking)		R	3																
		Remote long handle (non-locking)		R	4																
		Rack & sector		S	1																
		Twist-lock handle		T	1																
Slow close	(D1, D3, R1, R2, R3, R4 & S1 only)																		S		
Free close		F																			

Example EB 2 5 - P 4 2 9 B - H M 1 0 D - R 1 F

This is a complete model number for a 2.5" ball valve with: a simple 4 bolt pump flange inlet adapter, a male hose thread outlet adapter with drain tap, a remote push/pull style actuator handle without an additional mechanical slow close device.

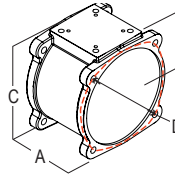
# APPARATUS VALVES



## UNIBODY APPARATUS

### BODIES

#### BALL VALVE BODY

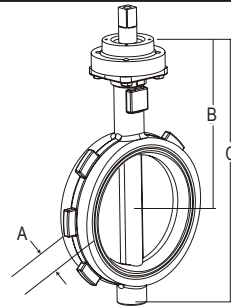


#### MODEL AND DIMENSION KEY

Size	DIMENSIONS				MATERIALS			BALL TYPE	WORKING PRESSURE (psi)	C <sub>v</sub> VALUE	ELKHART MODEL	Akron Model
	A	B	C	D*	Body	Ball	Seat					
1½"	3"	2¾"	4¾"	4½"	Brass Alloy 844	316 Stainless Steel	Hytrel	Round	250	139	EB15	7615/7815
2"	3"	2¾"	4¾"	4½"	Brass Alloy 844	316 Stainless Steel	Hytrel	Round	250	139	EB20	8620/8820
2½"	3½"	2¾"	5½"	5½"	Brass Alloy 844	316 Stainless Steel	Hytrel	Round	250	277	EB25	8625/8825
3"	4"	3"	5½"	6½"	Brass Alloy 844	316 Stainless Steel	Hytrel	Round	250	510	EB30	8630/8830
3½"	4"	3"	5½"	6½"	Brass Alloy 844	316 Stainless Steel	Hytrel	Round	250	510	EB35	8635/8835
4"	4"	4½"	8½"	7½"	Brass Alloy 844	Manganese Bronze	Hytrel	Flat	250/150	694	EB40	N/A

\* Bolt center diameter

#### BUTTERFLY VALVE



Butterfly Valve fits between 150# ANSI flanges. Butterfly Valves do not utilize adapters.

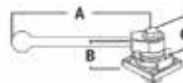
Size	DIMENSIONS			MATERIALS				WORKING PRESSURE (psi)	C <sub>v</sub> VALUE	ELKHART MODEL	Akron Model			
	A	B	C	Body	Wafer	Shaft	Seat							
3"	1 <sup>13</sup> / <sub>16</sub> "	7 <sup>57</sup> / <sub>64</sub> "	11 <sup>29</sup> / <sub>32</sub> "	Cast Iron	316 Stainless Steel	416 Stainless Steel	EPDM	250	262	EB3B				
4"	2 <sup>1</sup> / <sub>16</sub> "	8 <sup>45</sup> / <sub>64</sub> "	13 <sup>3</sup> / <sub>4</sub> "	Cast Iron	316 Stainless Steel	416 Stainless Steel	EPDM	250	647	EB4B				
				Carbon Steel	316 Stainless Steel	17-4 PH Stainless Steel	PTFE					285	400	EB4J
5"	2 <sup>1</sup> / <sub>4</sub> "	9 <sup>17</sup> / <sub>64</sub> "	14 <sup>23</sup> / <sub>32</sub> "	Cast Iron	316 Stainless Steel	416 Stainless Steel	EPDM	250	1141	EB5B				
				Carbon Steel	316 Stainless Steel	17-4 PH Stainless Steel	PTFE					285	650	EB5J
				316 Stainless Steel	316 Stainless Steel	17-4 PH Stainless Steel	PTFE					275	650	EB5S
6"	2 <sup>1</sup> / <sub>4</sub> "	9 <sup>57</sup> / <sub>64</sub> "	15 <sup>57</sup> / <sub>64</sub> "	Cast Iron	316 Stainless Steel	416 Stainless Steel	EPDM	250	1580	EB6B				
				Ductile Iron	Aluminum/Bronze	416 Stainless Steel	EPDM					250	1950	EB6D
				Carbon Steel	316 Stainless Steel	17-4 PH Stainless Steel	PTFE							
				316 Stainless Steel	316 Stainless Steel	17-4 PH Stainless Steel	PTFE					275	1050	EB6S
8"	2 <sup>7</sup> / <sub>8</sub> "	11 <sup>5</sup> / <sub>64</sub> "	18 <sup>7</sup> / <sub>32</sub> "	Cast Iron	316 Stainless Steel	416 Stainless Steel	EPDM	250	2892	EB8B				
				Carbon Steel	316 Stainless Steel	17-4 PH Stainless Steel	PTFE					285	2200	EB8J
				316 Stainless Steel	316 Stainless Steel	17-4 PH Stainless Steel	PTFE							

### ACTUATORS

#### DIRECT HANDLE



DIMENSIONS	INCHES	DESCRIPTION	ELKHART MODEL	Akron Model
Handle Length A (short)	5"	Short	D3F	TS
Handle Length A (long)	9 <sup>9</sup> / <sub>16</sub> "	Long	D1F	TS
Handle Height B $\perp$	1 <sup>7</sup> / <sub>8</sub> "	Short with slow close	D3S	TS
Overall Height C	2 <sup>1</sup> / <sub>4</sub> "	Long with slow close	D1S	TS
Overall Height C (with slow close)	3 <sup>5</sup> / <sub>8</sub> "	Short with chrome cover	D4F	TSC
		Long with chrome cover	D2F	TSC



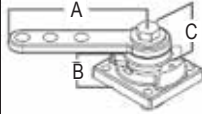
# APPARATUS VALVES

## UNIBODY APPARATUS

### REMOTE HANDLE



DIMENSIONS	INCHES	DESCRIPTION	ELKHART MODEL		Akron Model
			Self-Locking	Non-Locking	
Handle Length A (short)	4½"	Short	R1F	R3F	R-1
Handle Length A (long)	7"	Long	R2F	R4F	R-2
Handle Height B $\perp$	1⅞"	Short with slow close	R1S	R3S	R-1
Overall Height C	2¼"		R2S	R4S	R-2
Overall Height C (with slow close)	3⅞"	Long with slow close			



### RACK & SECTOR



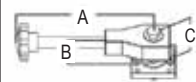
DIMENSIONS	INCHES	DESCRIPTION	ELKHART MODEL	Akron Model
Handle Offset A	4⅞"	Standard	S1F	R/S
Handle Height B $\perp$	1⅞"			
Overall Height C	1⅞"	Standard with slow close	S1S	R/S
Overall Height C (with slow close)	3⅞"			



### TWIST LOCK



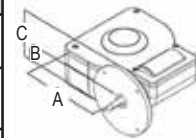
DIMENSIONS	INCHES	DESCRIPTION	ELKHART MODEL	Akron Model
Handle Length A	8 <sup>15</sup> / <sub>16</sub> "	Standard	T1F	SZ
Handle Height B $\perp$	1⅞"			
Overall Height C	3"			



### GEAR



DIMENSIONS	INCHES	DESCRIPTION	ELKHART MODEL	Akron Model
Handle Offset A	2⅞"	Standard	G1F	G
Handle Height B $\perp$	1⅞"			
Overall Height C	3⅞"	High Pressure	G2F*	



Hand-wheels are ordered separately

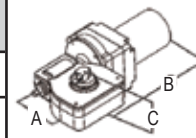
\* For use on the EB6D only.

### ELECTRIC



E1F & E2F

DIMENSIONS	INCHES	DESCRIPTION	ELKHART MODEL	Akron Model
Manual Offset A	2⅞"	Standard	E1F	E
Motor Length B	10¼"			
Overall Height C	3¾"	High Pressure	E2F*	



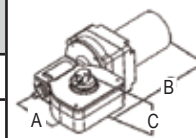
Controllers are ordered separately

\* For use on the EB6D only.



E3F & E5F

DIMENSIONS	INCHES	DESCRIPTION	ELKHART MODEL	Akron Model
Manual Offset A	2⅞"	Standard	E3F & E4F	E
Motor Length B	10¼"			
Overall Height C	4⅞"	High Pressure	E5F* & E6F*	



Controllers are ordered separately

\* For use on the EB6D only.



E4F & E6F

### SLOW CLOSE



Slow close may be bolted to remote, direct, and rack & sector actuators.

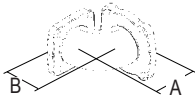
# APPARATUS VALVES



## UNIBODY APPARATUS

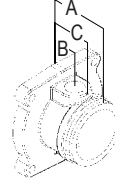
### ADAPTER DIMENSION KEY

#### PUMP ELBOW ADAPTERS



A = Valve Flange to Centerline of Elbow  
 B = Pump Flange to Centerline of Elbow

#### DISCHARGE & INTAKE ADAPTERS



A = Overall Length  
 B = Length to Centerline of Drain Hole  
 C = Length to Edge of Drain Boss

		ADAPTERS													MODEL						
Style	Valve Size	Bolt Center Diameter (Inches)							Drain (1/2")	Flow Port	4 Degree	26 Degree	90 Degree	94 Degree	Offset	Dimension A	Dimension B	Dimension C	Note	Elkhart #	Akon #
		4 3/4	4 1 1/2	5 1/2	5 3/4	6 3/4	7 1/16	7 25/32													
4 BOLT PUMP FLANGE (HALE)		2.5" 4 3/4								4					2 1/2	—	—		P427B		
		3.0" 4 3/4								4					2 1/2	—	—		P427B		
		3.5" 4 3/4								4					2 1/2	—	—		P427B		
		2.5" 4 3/4												5d20m	6 1/4	—	—		P401B	HD1-S	
		2.5" 4 3/4												5d20m	6 3/8	—	—		P403B	HD3-S	
		2.5" 4 3/4												14d5m	5 1/4	—	—		P404B	HD4-S	
		2.5" 4 3/4								4					10 1/4	—	—		P405B	HD5-S	
		3.0" 4 3/4													7d	5 3/4	—	—	P401B	HD1-S	
		3.5" 4 3/4													7d	5 3/4	—	—	P401B	HD1-S	
		2.5" 4 3/4								F					5d20m	6 1/4	3 3/8	—	P409F	HD21-SF	
		2.5" 4 3/4										90			3 1/4	5 1/4	—	—	P411B	SE1-S	
		2.5" 4 3/4										90			5 1/4	5 1/4	—	—	P412B	SE2-S	
		3.0" 4 3/4										90			3 1/4	6	—	—	P411B	SE1-S	
		3.0" 4 3/4										90			4 3/4	6	—	—	P412B	SE2-S	
	3.5" 4 3/4										90			3 1/4	6	—	—	P411B	SE1-S		
	3.5" 4 3/4										90			4 3/4	6	—	—	P412B	SE2-S		
	2.5" 4 3/4										90			2 1/2	7 3/4	—	—	P413B	SE3-S		
8 BOLT PUMP FLANGE (HALE)		3.0"			5 3/4										2 1/2	—	—		P851B	B1-SE	
		3.0"			5 3/4				4						2 1/2	—	—		P853B	B3-SE	
		3.5"			5 3/4										2 1/2	—	—		P851B	B1-SE	
		3.5"			5 3/4				4						2 1/2	—	—		P853B	B3-SE	
		4.0"			5 3/4				4						4	—	—		P853B	B3-SE	
		4.0"			5 3/4										4	—	—	Octagonal Flange	P858B	B8-SH	
		3.0"			5 3/4				4						6 3/8	—	—		P856B	B6-SE	
		3.5"			5 3/4				4						6 3/8	—	—		P856B	B6-SE	
		4.0"			5 3/4				F						5 1/6	2 1/16	—	—	P850F	B20-SHF	
		3.0"			5 3/4							90			4 3/8	4 3/8	—	—	P861B	HDE1-S	
		3.5"			5 3/4							90			4 3/8	4 3/8	—	—	P861B	HDE1-S	
		4.0"			5 3/4							90			9 1/2	5	—	—	P861B	HDE1-S	
	4.0"			5 3/4							94			9 1/2	5	—	—	P869B	HDE94-S		

# APPARATUS VALVES

## UNIBODY APPARATUS

Style		ADAPTERS														MODEL						
		BoltCenter Diameter (Inches)							Drain (1/4")	FlowPort	4 Degree	26 Degree	90 Degree	94 Degree	Offset			Dimension A	Dimension B	Dimension C	Note	
		4 3/8	4 1/2	5 1/2	5 3/4	6 3/8	7 1/8	7 1/2														
4 BOLT PUMPFLANGE (WATEROUS)		1.5"	4 3/8													2 3/8	—	—	slots	P429B	B1-SX	
		2.0"	4 3/8														2 3/8	—	—	slots	P429B	B1-SX
		2.5"	4 3/8														2 3/8	—	—	slots	P429B	B1-SX
		3.0"	4 3/8														2 3/8	—	—	slots	P429B	B1-SX
		3.5"	4 3/8														2 3/8	—	—	slots	P429B	B1-SX
		3.0"	4 3/8													4 1/2	—	—	slots	P425B	B5-S	
		3.5"	4 3/8													4 1/2	—	—	slots	P425B	B5-S	
		2.5"	4 3/8													2 3/8	—	—		P423B	B3-S	
		2.5"	4 3/8													1 1/8	—	—		P418B	B2-SH	
		3.0"								4						1 3/8	—	—		P493B	B3-SH	
		3.5"								4						1 3/8	—	—		P493B	B3-SH	
		4.0"				6 3/8				4						2	—	—	2 piece	P473B	B3-SH	
		2.5"	4 3/8													1 3/8	—	—	clamp	P419B	B1-SW	
		3.0"	4 3/8													1 3/8	—	—	clamp	P419B	B1-SW	
		3.5"	4 3/8													1 3/8	—	—	clamp	P419B	B1-SW	
		2.5"	4 3/8							F						3 1/2	1 3/16	—		P410F	B10-SF	
	3.0"	4 3/8							F						3 3/16	1 3/8	—		P410F	B10-SF		
	3.5"	4 3/8							F						3 3/16	1 3/8	—		P410F	B10-SF		
8 BOLT PUMPFLANGE (WATEROUS)		2.5"	4 3/8																	P814B	B4-S	
		2.5"	4 3/8													4 1/2	—	—	4 holes & 4 slots	P815B	B5-S	
		2.5"	4 3/8													6	—	—		P816B	B6-S	
		3.0"	4 3/8													2 3/8	—	—		P814B	B4-S	
		3.5"	4 3/8													2 3/8	—	—		P814B	B4-S	
		2.5"				6 3/8				4						7/8	—	—		P871B	B1-SH	
		4.0"				6 3/8				4						2	—	—	2 piece	P871B	B1-SH	
		3.0"			5 1/2						26					2 3/8	—	—		P842B	B2-SW	
		3.0"			5 1/2					4						3 3/8	—	—		P843B	B3-SW	
		3.0"			5 1/2											2 3/8	—	—	slots	P841B	B1-SEW	
		3.5"			5 1/2						26					2 3/8	—	—		P842B	B2-SW	
		3.5"			5 1/2					4						3 3/8	—	—		P843B	B3-SW	
		3.5"			5 1/2											2 3/8	—	—	slots	P841B	B1-SEW	
		4.0"			5 1/2											4	—	—		P848B	B8-SW	
		4.0"			5 1/2					F						5 1/16	2 11/16	—		P840F	B20-SFW	
		3.0"			5 1/2							90				4 3/16	4 3/16	—		P845B	WDE1S	
	3.5"			5 1/2							90				4 3/16	4 3/16	—		P845B	WDE1-S		
	4.0"			5 1/2							90				9 1/2	5	—		P845B	WDE1-S		
	4.0"			5 1/2								94			9 1/2	5	—		P849B	WDE94-S		
	1.5"	4 3/8									90				3 3/4	4 13/16	—		P817B	DE1-S		
GENERAL		1.5"	4 3/8								90				3 3/4	5 1/2	—		P818B	DE2-S		
		2.0"	4 3/8								90				3 3/4	4 13/16	—		P817B	DE1-S		
		2.0"	4 3/8								90				3 3/4	5 1/2	—		P818B	DE2-S		
4 BOLT PUMP FLANGE (DARLEY)		2.5"		4 1/2											2 3/8	—	—		P432B	B2-S		
		3.0"		4 1/2											2 3/8	—	—		P432B	B2-S		
		3.5"		4 1/2											2 3/8	—	—		P432B	B2-S		
		2.5"		4 1/2									6d	6 3/4	—	—		P431B	DD1-S			

# APPARATUS VALVES

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## UNIBODY APPARATUS


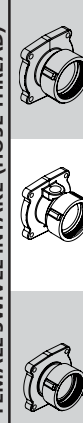
### APPARATUS VALVES

8-13

		ADAPTERS																MODEL					
Style	Valve Size	Pipe Size (Inches)								Drain(1/4")	PressureTap(1/4")	Flow Port	Check Valve	4 Degree Offset	30 Degree Droop	90 Degree Droop	Strainer	Dimension A	Dimension B	Dimension C	Note	Elkhart#	Akon #
		1	1 1/2	2	2 1/2	3	3 1/2	4	5														
RIGID NPT MALE		1.5"	1 1/2															1 1/8	—	—		NM01B	M1-S
		2.0"		2														1 1/8	—	—		NM01B	M1-S
		2.5"			2 1/2													2	—	—		NM01B	M1-S
		3.0"				3												2 1/8	—	—		NM01B	M1-S
		3.5"					3 1/2											2 1/8	—	—		NM01B	M1-S
		4.0"						4										2 1/8	—	—		NM01B	M1-S
		2.5"			2 1/2				D	P								3 1/8	1 1/8	1 1/8		NM03D	M3-S
		3.0"				3			D	P								3 1/8	1 1/8	2 1/8		NM03D	M3-S
		4.0"					4		D	P								4 1/4	1 1/8	2 1/8		NM03D	M3-S
RIGID NPT FEMALE		2.0"			2 1/2													1 1/8	—	—		NM12B	M12-S
		3.0"				4												3 3/4	—	—		NM12B	M12-S
		1.5"	1 1/2															1 1/4	—	—		NF01B	P1-S
		2.0"		2														1 1/4	—	—		NF01B	P1-S
		2.5"			2 1/2													1 1/8	—	—		NF01B	P1-S
		3.0"				3												1 1/8	—	—		NF01B	P1-S
		3.5"					3 1/2											2	—	—		NF01B	P1-S
		4.0"						4										2	—	—		NF01B	P1-S
		1.5"		1 1/2					D	P								3 1/4	1 1/8	2 1/8		NF02D	P2-S
RIGID NPT FEMALE		2.0"		2				D	P									3 1/4	1 1/8	2 1/8		NF02D	P2-S
		2.5"			2 1/2			D	P									3 3/8	1 1/8	2 1/8		NF02D	P2-S
		2.5"			2 1/2				D	P								4 3/8	1 1/4	2 1/2		NF22D	P2-SE
		3.0"				3			D	P								3 1/8	1 1/8	2 1/8		NF02D	P2-S
		3.5"					3 1/2		D	P								4	1 1/8	2 1/8		NF02D	P2-S
		4.0"						4	D	P								4 1/8	1 1/8	2 1/8		NF02D	P2-S
		1.5"		2														2 1/8	—	—		NF10B	P10-S
		2.0"			2 1/2													2 1/8	—	—		NF10B	P10-S
		2.5"				3												3 1/8	—	—		NF10B	P10-S
		3.0"					4		D	P								3 3/4	1 1/8	2 1/8		NF12D	P12-S
		2.0"			2	2 1/2					F							4 1/8	—	—	2" F NPT & 2.5" Vic	NF20F	P20-SF
		2.5"				2 1/2	3				F							4 1/8	—	—	2.5" F NPT & 3" Vic	NF20F	P20-SF
		3.0"					3				F							4 3/8	—	—		NF20F	P20-SF
		4.0"						4			F							4 1/8	—	—		NF20F	P20-SF
		1.5"	1 1/2	2					D			C						6	3 3/8	4 3/4	1.5" F NPT & 2" Vic	NF30C	P30-SCV
		2.0"		2					D			C						5 1/8	3 3/8	4 3/8		NF30C	P30-SCV
	2.5"			2 1/2				D			C						6 1/2	4 3/8	5 1/8		NF30C	P30-SCV	
	3.0"				3			D			C						7 1/2	4 1/8	5 1/8		NF30C	P30-SCV	
	3.0"					3	4				C						6 1/8	—	—	3" F NPT & 4" Vic	NF40C	P40-SCV	
	3.0"					3	4										2 1/8	—	—	3" F NPT & 4" Vic	NF71B	VT1-S	
	3.0"					3	4	D	P								3 1/8	—	—	3" F NPT & 4" Vic	NF72D	VT3-S	
	4.0"						4	5									2 3/8	—	—	4" F NPT & 5" Vic	NF71B	VT1-S	

# APPARATUS VALVES

## UNIBODY APPARATUS

ADAPTERS															MODEL								
Style	Valve Size	Pipe Size (Inches)								Drain (1/4")	Pressure Tap (1/4")	Flow Port	Check Valve	4 Degree Offset	30 Degree Droop	90 Degree Droop	Strainer	Dimension A	Dimension B	Dimension C	Note	Elkhart #	Akon #
		1	1 1/2	2	2 1/2	3	3 1/2	4	5														
	1.5"		1 1/2														1 3/8	—	—		HM01B	M1-S	
	2.0"			2													1 3/8	—	—		HM01B	M1-S	
	2.0"				2 1/2												1 15/16	—	—		HM02B	M2-S	
	2.5"				2 1/2												2	—	—		HM01B	M1-S	
	3.0"					3											2 1/16	—	—		HM01B	M1-S	
	3.5"						3 1/2										2 1/4	—	—		HM01B	M1-S	
	4.0"							4									2 11/16	—	—		HM01B	M1-S	
	2.0"				2 1/2				D	P							3 3/8	1 3/8	2 1/2		HM10D	M10-S	
	2.5"				2 1/2				D	P							3 3/8	1 3/8	2 1/2		HM03D	M3-S	
	3.0"					3			D	P							3 3/8	1 3/8	2 1/2		HM03D	M3-S	
	4.0"						4		D	P							4	1 1/8	2 1/2		HM03D	M3-S	
	2.5"				2 1/2				D	P							5	1 3/8	1 1/2		HM04D	M4-S	
	3.0"					3			D	P							5	1 3/8	1 1/2		HM04D	M4-S	
	4.0"						4		D	P							8 3/4	1 13/16	2 1/2		HM04D	M4-S	
	2.5"				2 1/2				D	P							6 1/2	1 3/8	2 1/2		HM07D	M7-S	
	2.5"				2 1/2				D	P							10	1 3/8	2 1/2		HM06D	M6-S	
	2.5"				2 1/2				D	P				30			7 1/16	1 3/8	2 1/2		HM21D	ME1-S	
	3.0"					3			D	P				30			7	1 3/8	2 1/2		HM21D	ME1-S	
	3.5"						3 1/2		D	P				30			7 1/16	1 3/8	2 1/2		HM21D	ME1-S	
	4.0"							4	D	P				30			9 3/4	1 3/8	2 1/2		HM21D	ME1-S	
2.5"				2 1/2				D	P				30			10 5/16	1 3/8	2 1/2		HM23D	ME3-S		
2.5"				2 1/2				D	P				30			12 3/16	1 3/8	2 1/2		HM24D	ME4-S		
3.0"					3			D	P				30			10 3/8	1 3/8	2 1/2		HM23D	ME3-S		
3.0"				2 1/2				D	P				30			6 7/8	1 3/8	2 1/2		HM25D	ME5-S		
	1.5"		1 1/2													90	3 3/4	—	—		HM31B	MES1-S	
	2.0"			2												90	3 3/4	—	—		HM31B	MES1-S	
	2.5"				2 1/2											90	4 7/8	—	—		HM31B	MES1-S	
	1.5"		1 1/2														1 3/4	—	—		HF51B	F1-S	
	2.5"				2 1/2												2 5/16	—	—		HF51B	F1-S	
	3.0"					3											2 5/16	—	—		HF51B	F1-S	
	3.5"						3 1/2										2 7/8	—	—		HF51B	F1-S	
	4.0"							4									3 3/8	—	—		HF51B	F1-S	
	2.5"				2 1/2				D	P							3 1/2	1 3/8	2 1/2		HF52D	F2-S	
	2.5"				2 1/2				D	P							5 1/2	1 3/8	2 1/2		HF53D	F3-S	
	3.0"					3			D	P							3 3/4	1 3/8	2 1/2		HF52D	F2-S	
	3.0"					3			D	P							5 1/2	1 3/8	2 1/2		HF53D	F3-S	
	4.0"						4		D	P							5 1/2	1 13/16	2 1/2		HF52D	F2-S	
	1.5"		1 1/2														S	1 3/4	—	—		HF01B	F1-SS
	2.5"				2 1/2												S	2 5/16	—	—		HF01B	F1-SS
	3.0"					3											S	2 5/16	—	—		HF01B	F1-SS
3.5"						3 1/2										S	2 7/8	—	—		HF01B	F1-SS	
4.0"							4									S	3 3/8	—	—		HF01B	F1-SS	

APPARATUS VALVES



# APPARATUS VALVES



## UNIBODY APPARATUS

# APPARATUS VALVES

8-15




		ADAPTERS															MODEL			
Style	Valve Size	Pipe Size (Inches)					Drain (3/4")	Pressure Tap (1/4")	Flow Port	Check Valve	4 Degree Offset	30 Degree Droop	90 Degree Droop	Strainer	Dimension A	Dimension B	Dimension C	Note	Elkhart #	Akron #
		1	1 1/2	2	2 1/2	3														
	2.0"				2 1/2								S	4 7/8	1 3/8	2 1/8		HF12D	F12-SS	
	2.5"				2 1/2		D	P					S	3 3/2	1 3/8	2 1/8		HF02D	F2-SS	
	2.5"				2 1/2		D	P					S	5 1/2	1 3/8	2 1/8		HF03D	F3-SS	
	3.0"				2 1/2		D	P					S	3 13/16	1 3/8	2 1/8		HF04D	F4-SS	
	3.0"				2 1/2		D	P					S	5 1/2	1 3/8	2 1/8		HF05D	F5-SS	
	3.0"					3	D	P					S	3 3/4	1 3/8	2 1/8		HF02D	F2-SS	
	3.0"					3	D	P					S	5 1/2	1 3/8	2 1/8		HF03D	F3-SS	
	4.0"						4	D	P				S	5 1/2	1 13/16	2 1/16		HF02D	F2-SS	
	2.5"				2 1/2		D	P					S	7 7/8	1 3/8	2 1/8		HF23D	FE3-SS	
	3.0"					3	D	P			30		S	7 3/4	1 3/8	2 1/8		HF23D	FE3-SS	
	3.5"					3 1/2	D	P			30		S	7 7/8	1 3/8	2 1/8		HF23D	FE3-SS	
	2.5"				2 1/2									1 7/8	—	—		FM01B	P1-SH	
	3.0"					3								1 15/16	—	—		FM01B	P1-SH	
	3.0"					3								2 1/4	—	—		FM51B	PA-SH	
	3.0"					3				4				2 1/4	—	—		FM61B	PO-SH	
	3.0"						4							1 15/16	—	—		FM12B	P12-SH	
	1.5"		1 1/2											1 1/4	—	—		SF03B	P3-S	
	2.0"			2										1 1/4	—	—		SF03B	P3-S	
	2.5"				2 1/2									1 7/8	—	—		SF03B	P3-S	
	3.0"					3								1 7/8	—	—		SF03B	P3-S	

		SINGLE BODY ADAPTERS															MODEL			
Style	Valve Size	Pipe Size (Inches)					Drain (3/4")	Pressure Tap (1/4")	Flow Port	Check Valve	4 Degree Offset	30 Degree Droop	90 Degree Droop	Strainer	Dimension A	Dimension B	Dimension C	Note	Elkhart #	Akron #
		1	1 1/2	2	2 1/2	3														
HOSE	1.5"		1 1/2										S	1 3/16			Female	HF01B	F1-SS	
	1.0"	1												1 11/16			Male	HM01B	M1-S	
	1.5"		1 1/2											1 5/16			Male	HM01B	M1-S	
RIGID	1.0"	1												1 1/8		1	Female	NF01B	P1-S	
	1.5"		1 1/2											1 1/8		1	Female	NF01B	P1-S	
	1.5"		1 1/2				D	P						3 3/8	1 3/8	2 1/16	Female	NF02D	P2-S	
	1.0"	1												1 21/32			Male	NM01B	M1-S	
	1.5"		1 1/2											1 5/16			Male	NM01B	M1-S	
VICT.	1.0"	1												1 11/16				VA01B	V1-S	
	1.5"		1 1/2											1 3/4				VA01B	V1-S	
	1.5"		1 1/2				D							3 5/16	1 3/8	2 1/16		VA03D	V3-S	

Single Body Adapters are for use with SB10 & SB15 valves. See 8-6 for Single Body Valves.

# APPARATUS VALVES

## UNIBODY APPARATUS

		ADAPTERS																	MODEL				
Style	Valve Size	Pipe Size (Inches)								Drain (3/4")	Pressure Tap (1/4")	Flow Port	Check Valve	4 Degree Offset	30 Degree Droop	90 Degree Droop	Strainer	Dimension A	Dimension B	Dimension C	Note	Elkhart #	Akron #
		1	1 1/2	2	2 1/2	3	3 1/2	4	5														
		1.5"	1 1/2														1 1/16	—	—		VA01B	V1-S	
		2.0"		2													1 1/16	—	—		VA01B	V1-S	
		2.5"			2 1/2													1 1/16	—	—		VA01B	V1-S
		3.0"				3												2 1/8	—	—		VA01B	V1-S
		3.5"					3 1/2											2 3/16	—	—		VA01B	V1-S
		4.0"						4										2 1/4	—	—		VA01B	V1-S
		1.5"	1 1/2						D	P								3 1/4	1 3/8	2 3/8		VA03D	V3-S
		2.0"		2					D	P								3 1/4	1 3/8	2 3/8		VA03D	V3-S
		2.5"			2 1/2				D	P								3 3/16	1 3/8	2 3/8		VA03D	V3-S
		2.5"				3			D	P								3 1/2	1 3/8	2 3/8		VA04D	V4-S
		3.0"				3			D	P								3 3/16	1 3/8	2 3/8		VA03D	V3-S
		4.0"					4		D	P								4	1 1/16	2 1/16		VA03D	V3-S
		2.0"		2	2 1/2						F							4 3/16	—	—	2" F NPT & 2.5" Vic	NF20F	P20-SF
		2.5"			2 1/2	3					F							4 3/16	—	—	2.5" F NPT & 3" Vic	NF20F	P20-SF
		1.5"	1 1/2	2					D			C						6	3 3/8	4 3/4	1.5" F NPT & 2" Vic	NF30C	P30-SCV
		3.0"				3	4					C						6 1/16	—	—	3" F NPT & 4" Vic	NF40C	P40-SCV
		3.0"				3	4											2 3/16	—	—	3" F NPT & 4" Vic	NF71B	VT1-S
		3.0"				3	4		D	P								3 3/16	—	—	3" F NPT & 4" Vic	NF72D	VT3-S
		4.0"					4	5										2 3/8	—	—	4" F NPT & 5" Vic	NF71B	VT1-S
		1.5"	1 1/2						D							90		3 3/4	3	—		VA21D	VE1-S
	2.0"		2					D	P						90		3 3/4	3	—		VA21D	VE1-S	
	2.0"		2					D	P						90		5 3/4	3	—		VA22D	VE2-S	
	2.0"		2							F							3 3/16	1 1/4	—		VA20F	V20-SF	
	2.5"			2 1/2						F							3 3/16	1 1/4	—		VA20F	V20-SF	
	3.0"				3					F							4 1/4	1 1/4	—		VA20F	V20-SF	
	2.0"		2					D			C						5 5/8	3 3/8	4 3/8		VA30C	V30-SCV	
	2.5"			2 1/2				D			C						6 1/4	4 7/16	5 1/16		VA30C	V30-SCV	
	3.0"				3			D			C						7 1/2	4 1/16	5 1/16	3 x 3/4" drain	VA30C	V30-SCV	
		2.0"		2													2 1/4	—	—		WA01B		
		2.5"			2 1/2													2 1/4	—	—		WA01B	
		3.0"				3												2 1/4	—	—		WA01B	
		3.5"					3 1/2											2 1/4	—	—		WA01B	
		4.0"						4										2 1/4	—	—		WA01B	
		2.0"		2					D	P								4 3/8	1 3/8	2 3/16		WA03D	
		2.5"			2 1/2				D	P								4 3/8	1 3/8	2 3/16		WA03D	
		3.0"				3			D	P								4 3/8	1 3/8	2 3/16		WA03D	
	3.5"					3 1/2		D	P								4 3/8	1 3/8	2 3/16		WA03D		
	4.0"						4	D	P								4 3/8	1 3/8	2 3/16		WA03D		

APPARATUS VALVES