



SWING-OUT VALVE GUIDE

2021

Heavy Duty Brass Swing-Out™ Valves

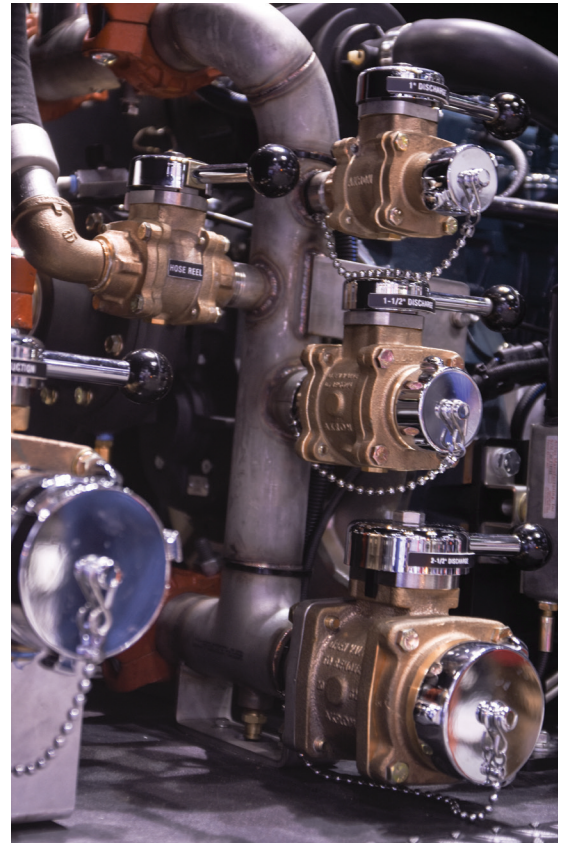
Akron Brass offers a wide variety of apparatus valves to meet the demands of today's fire service. All Swing-Out Valves are designed for operating pressures of at least 250 psi (17 bar) and meet the NFPA 1901 Standard for valve opening and closing speed control when operated with a gear actuator, electric actuator or Slo-Cloz™. In addition, every valve is factory tested in accordance with current NFPA Standards and backed by a 10 year warranty.

- A single valve body that will accept a variety of actuators.
- HydroMax™ technology: A ball geometry providing superior gating performance and flow characteristics
- No lubrication or regular maintenance required
- Simple two seated design (no O-Rings to cut or lose during assembly or maintenance)
- Wide range of available adapters
- High quality brass body cast, machined and assembled at our facility in Wooster, Ohio, USA
- Available in 1"- 4" sizes
- Ball available in stainless steel or high performance Polymer

High Performance Polymer Ball with HydroMax



Stainless Steel Ball with HydroMax

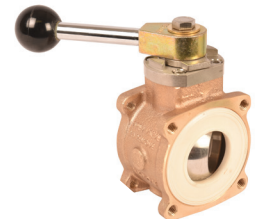


1" and 1.5" Swing-Out Valves

Commonly used on smaller trucks and lower flow applications, the 1" and 1.5" Swing-Out valves are available with a wide range of adapters and are simple to install and maintain throughout the life of the apparatus.

Valve Body

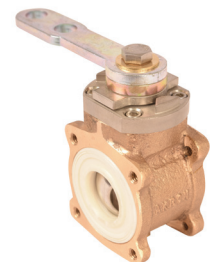
	Style	Size	Ball Type	Operating Pressure (psi)	Hydrostatic Pressure (psi)
	8810	1"	Stainless Steel	500	1000
	8910	1"	Polymer	500	1000
	8615	1.5"	Stainless Steel	250	500
	8815	1.5"	Stainless Steel	250	500
	8915	1.5"	Polymer	250	500



Style 8815 with TS Handle

Actuator Options

Actuator	Type	Part #	# of Holes	Length	Available Accessories	Compatibility Style Numbers
	Manual	721236*	2	3 1/2"		8810, 8910 8815, 8915
		109150	1	3 1/4"		
	Manual	78150064	-	5"	-	8810, 8910, 8815, 8915
		78150062	-	8"		
	Manual	78150065	-	5"	-	8810, 8910, 8815, 8915
		78150087	-	8"		
	Electric	86158002*	-	7"		8615, 8915



Style 8810 with RI Handle


* Standard
*Standard 12V



2" - 3.5" Swing-Out Valves

The 2" and larger Swing-Out valves are commonly used across all types of fire apparatus. With the broadest selection of adapters and options for actuation they have everything you need for your apparatus water flow control.

Valve Body

	Style	Size	Ball Type	Operating Pressure (psi)	Hydrostatic Pressure (psi)
	8620/8820*	2"	Stainless Steel	250	500
	8920	2"	Polymer	250	500
	8625/8825*	2.5"	Stainless Steel	250	500
	8925	2.5"	Polymer	250	500
	8630/8830*	3"	Stainless Steel	250	500
	8930	3"	Polymer	250	500
	8635/8835*#	3"	Stainless Steel	250	500
	8935#	3"	Polymer	250	500



Style 8825 with TSC Handle

* 8600 series valves for use with Gear, Electric and Air Actuators
3.5" valves use the same body and ball as the 3" valves but include 3.5" adapters

Actuator Options

Actuator	Type	Part #	# of Holes	Length	Available Accessories	Compatibility Style Numbers
	Manual	721238*#	2	6 3/4"		8820, 8825, 8830, 8835, 8920, 8925, 8930, 8935
		721508#	3	4 1/2"		
	Manual	78250568#	-	7"		8820, 8825, 8830, 8835, 8920, 8925, 8930, 8935
		78250563*#	-	9 1/4"		
	Manual	78250565*#	-	9 1/4"	-	8820, 8825, 8830, 8835, 8920, 8925, 8930, 8935
		78250493#	-	11"		
	Manual	86303002*	-	9 1/4"		8620, 8625, 8630, 8925
	Manual	86251803**	-	12" or 26"	-	8625, 8630
	Manual Gear	78250463#	-	-		8620, 8625, 8920, 8925
		78300291#	-	-		8630, 8635, 8930, 8935
	Electric	86258006^#	-	7"		8620, 8625, 8920, 8925
		86308002^#	-	7"		8630, 8635, 8930, 8935

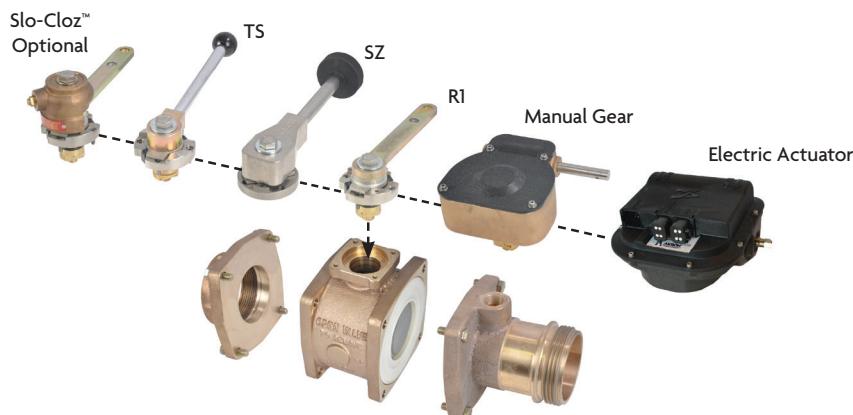


Style 8820 with R1 Handle



Style 8625 with Electric Actuator

* Standard
^ Standard 12V
More options available
** Includes unique valve body



4" Swing-Out Valves

Akron's 4" heavy duty valves are designed for tank-to-pump use, deck gun or other higher flow applications and are used with air, gear or electric actuation.

Style 8840 Heavy Duty 4" Swing-Out Valve With Flat Disk Design

- Flat disk concept has spherical seating surface that easily closes and seals on the seat
- Short 4" long body length. Can be used on side discharge applications and in restricted pump compartment space
- Easy-to-operate sealing system requires less torque to open and close the valve
- Reduced gear ratios:
 - Electric: 25:1 ratio - 8 seconds full open to close
 - Handwheel 50:1 ratio - 12 1/2 turns
- Weight: 36 lbs. (16.3 kg) with electric actuator, less adapters
- Wide range of available adapters



Style 8840 with Air Actuator

Style 8940 4" Swing-Out Valve

- High performance full flow polymer ball
- Number of turns for full open/close of gear actuator: 16

Valve Body

Body	Style	Size	Width	Ball Type	Operating Pressure (psi)	Hydrostatic Pressure (psi)
	8840	4"	4"	Flat Bronze Disk	250 (In Flow Direction) 100 (Opposite Flow Direction)	500
	8940	4"	6"	Round Polymer Ball	250	500



Style 8940 with Gear Actuator

Actuator Options

Actuator	Type	Part #	# of Holes	Length	Available Accessories	Compatibility Style Numbers
	Air	88400874	-	11 1/4"	-	8840
		79600253	-	13 13/16"		8940
	Manual Gear	88400852	-	-		8840
		78400119	-	-		8940
	Electric	88405076	-	12 1/4"		8840
		89405000^#	-	12 1/4"		8940



Style 8840 with Electric Actuator

^Standard 12V

More options available

Swing-Out™ Valve Actuators

Air Actuator (AIR)

Air Actuators operate off the apparatus air supply and are equipped with an emergency override. Designed for full open/close applications only. Units are supplied with two air flow control valves to regulate the opening and closing valve speed to comply with the current NFPA 1901 Standard.

- Operates from -40° F to 125° F and requires 100-120 psi air pressure
- Available on 4" Swing-Out and all Butterfly Valves
- Solenoid and switch not included

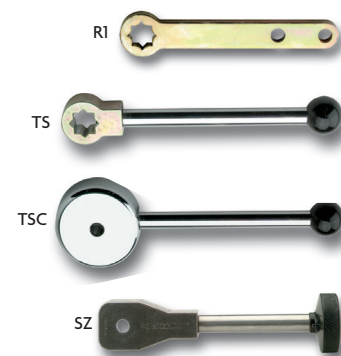


Air Actuator shown with factory supplied Air Control Valves

Swing-Out™ Valve Actuators

Manual Handle Actuators

- R1** Handle for remote valve operation of 8800 and 8900 Series Swing-Out Valves
- TS** Handle for direct valve operation through the panel of 8800 Series Swing-Out Valves
- TSC** Handle with cover for exterior mounted 8800 Series Swing-Out Valves
Same as the TS handle, with cover
- SZ** Handle with Twist Lock for direct valve operation through the panel of 8620-8635 Swing-Out Valves

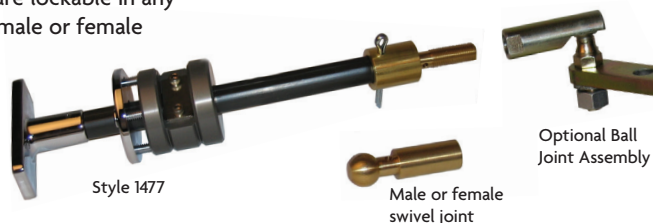


Manual Handle Accessories

Style 1477 Push/Pull Remote Control

Push/Pull Remote Control operates in-line valves from the pump panel. Remote controls can be used with Swing-Out™ valves through 3 1/2" with R1 handles and are lockable in any position. The remote controls are furnished with an escutcheon plate, male or female swivel joint and stainless steel spring locks.

- Recessed T-Handle
- Two stroke lengths available:
 - 8 1/4" for 1", 1 1/2", and 2" valves
 - 11 1/4" for 2 1/2", 3, and 3 1/2" valves
- Optional ball joint assembly
- Weight: 2 lbs. (.9 kg)



Style 7875 Slo-Cloz Control (SC)

The Slo-Cloz reduces the chances of ruptured water lines, burst hose, or damaged seats and gaskets by controlling the opening and closing speed of the valve. The unit fits 8820-8835 Tork-Lok® valves. Meets NFPA 1901.



Style 102 Top-Mount Remote Control (TM)

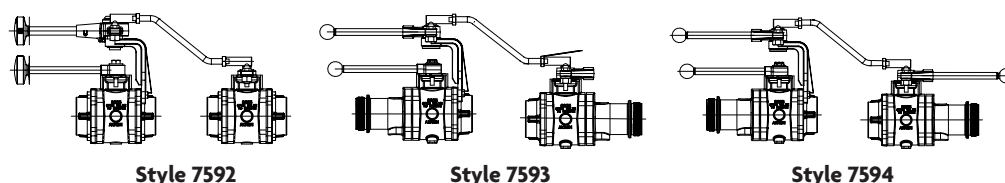
Designed for operating valves from top-mounted operator's panel.

- Control handle positioned 90° from remote handle
- Additional pre-drilled hole for setting control handle at 135°
- Heavy-duty all brass brake band
- Cast brass construction with stainless steel handle rod
- Remote Handle Length: 5"



Styles 7592, 7593, 7594 Piggy-Back Remote Control (PB)

Styles 7592, 7593, 7594 Piggy-Back Remote Control (PB) for operating 2 1/2" - 3 1/2" valves on the opposite side of the pumper. Valves must be ordered separately and cannot be used with the Slo-Cloz.



Electric Actuators (EA)

Akron's electric actuators are equipped with a magnet in the trunnion to provide more accurate position feedback; requiring no clutches in motor or current limiting. The motor, pressure, and flow sensor connections are all located right on the valve for shorter wire runs and simple installation. The electronics are fully sealed and utilize Deutsch connectors for long life and reliability. A preset speed for opening and closing the valve complies with NFPA 1901 Standard.

Electric Actuator for 1.5" – 3.5" Valves

- Compact size allows for versatile plumbing configurations & easy installation
- Manual overrides on two sides
- Operates on 12 or 24V (must specify)
- Gear drive ratio: 16:1
- Patent-pending



Electric Actuator shown mounted on a Swing-Out Valve

Electric Actuator for 4" – 8" Valves

- Manual override
- Operates on 12 or 24V (must specify)
- Gear drive ratio:
 - Style 8840: 25:1
 - Style 8940 and Butterfly Valves 4" – 8": 64:1
- Works with Weco, Keystone and Jamesbury Butterfly Valves (must specify)

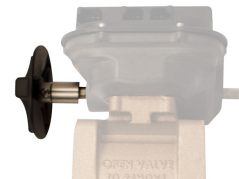


8" Heavy Duty Electric Actuator

Electric Actuator Accessories

Style 86258005 Handwheel Kit for 1.5" - 3.5" Actuator

Handwheel attaches to either side of the actuator for manual override functionality. Must specify when ordering.



Handwheel Kit

Style 9333 Navigator Pro™ 2.0 Electric Valve Controller

Akron's valve controllers provide reliable and accurate valve control with position indication for improved operational effectiveness and safety. Use exclusively with Akron's electric actuator.

- Full color LCD display visible in bright sunlight. Auto dimming capability
- Easy-to-navigate setup menu. User programmable presets
- Valve name and the discharge color can be programmed on the top bar of the display
- USB port on-board. Software for display and motor driver can be easily updated via USB flash drive
- Multiple display capability. Multiple displays can be used to control the same valve
- Auto open



Style 9333 Navigator Pro 2.0 Shown in Open Position

Style 9335 Navigator Pro 2.0 Controller Electric Valve with Flow and Pressure

All the same features as the 9333, plus the following:

- Optional pressure display: Can be displayed in psi, kPa or bar*
- Optional flow display: Can be displayed in gpm or lpm*
- Optional CAFS integration: Turn CAFS on and off*
- Ensure the most turbulent of flows is accurate with custom calibration of the flow sensor
- Totalizer function: Controller will calculate the volume of water flowed, through the paired valve. Resets every time the power is cycled to the valve. When networked with other 9325 controllers, total flow across all valves is shown.

* Available when flow, pressure or CAFS equipment installed.



Style 9335 Navigator Pro 2.0 with Pressure and Flow

Style 9327 Mini Navigator Pro 2.0 Controller Electric Valve with Flow and Pressure

The Navigator Pro Mini is the perfect fit for those tight pump panels where space is at a premium. Measuring only 3.1" tall, it is a full inch shorter than the current Styles 9323 and 9325 Navigator Pro. The width, panel cutout and mounting holes are all identical to the Navigator Pro 2.0 controllers.

- Valve position is indicated with 5 ultra-bright LEDs so you can quickly see the position of the valve
- Compatible with the standard Navigator Pro electric actuator
- Includes valve open, valve close and one easy-to-program preset button that can be used to send the valve to a pre-programmed position when pressed



Style 9327 Mini Navigator Pro



SAM Control System

SAM is an integrated total water control system that manages your truck's pump, tank, intakes and discharges. The SAM system replaces your pressure governor and takes care of opening and closing valves based on operator settings. Instead of a complex fire truck pump panel, you can have all your pump controls in a 10" touch-screen display.

Use exclusively with Akron's electrically actuated Swing-Out valves. For more information on how SAM is transforming traditional fire truck pump operations, visit samflows.com.

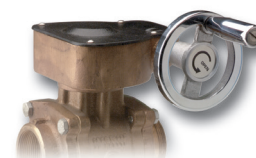


SAM Control System

Gear Actuator (GA)

Gear Actuator with handwheel is used for smooth, precise operation of valves such as on a deck gun, large diameter side discharge or ladder pipe.

- Handwheel driven worm gear rotates a gear sector for smooth and easy operation under pressure
- 2" - 3 1/2" valves have a 4" handwheel
- 8840 valves have a 6" handwheel
- Number of turns for full open/close:
 - 2" - 3 1/2" Swing-Out™ valves: 12 1/2 turns
 - 4" Swing-Out™ valves: 12 1/2 turns
- Opening and closing speed complies with the current NFPA standard to minimize effects of water hammer
- Helps prevent valve drift and accidental slamming open or closed



2" - 3 1/2" Manual Gear Actuator

Gear Actuator Accessories

Style 8630 Position Indicator

Position Indicator for gear actuated valves showing valve position. Meets NFPA 1901.

- Must specify landscape (side mount) or portrait (top mount) orientation
- Size: 3 1/2" x 5 1/2"

Auxiliary Position Indicator

- For use with 2" - 4" Swing-Out valves
- Optional (must specify)

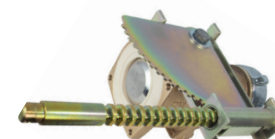


Position Indicator (landscape)

Rack and Sector Actuator (RS)

Minimizes troublesome linkage problems associated with remote handles.

The Rack and Sector Gear Actuator is usable with most pumps (depending on pump panel width). Available on 2 1/2" - 3 1/2" valves. (Requires unique valve body.)



Rack and Sector

Pyrolite Apparatus Valve

2.5" Swing-Out Valve

Style 7725 2.5" Swing-Out Valve

This lightweight, Pyrolite Swing-Out valve is ideal for use on aerial platforms and features a full flow 2 1/2" waterway.

- Simple two seated design (no o-rings to cut or lose during assembly or maintenance)
- No lubrication or regular maintenance required
- Designed & tested to exceed NFPA requirements
- Weight 9 3/8 lbs. (4.1 kg)
- Self-locking Tork-Lok® for easy positioning
- Optional Swiveling 90° Elbow (MEI-S)
- Optional body with thru holes for direct connection to a manifold

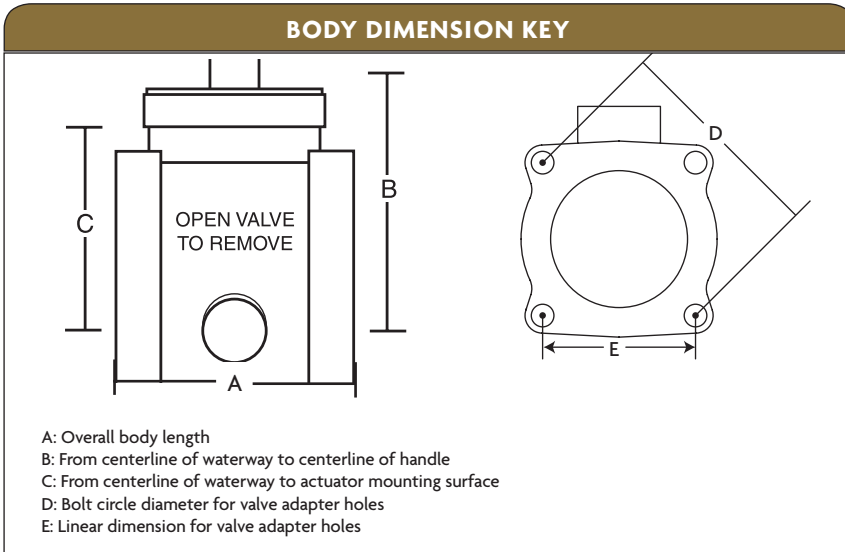
Adapter Options:

MEI-S	90° Elbow	FI-S	Female Swivel
PI-S	Female NPT	FI-SS	Female Swivel with Strainer
MI-S	Male NPT		



Style 7725

Technical Data



TORQUE REQUIREMENTS

**Style Numbers
8620-8635, 8810-8840 and 8910-8940**

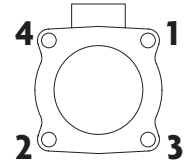
The following is to be used for torquing the hex head bolts which hold the adapters to the body.

VALVE	TORQUE
8810/8910	100-120 Inch Pounds
8615/8815/8915	216-240 Inch Pounds
8620/8820/8920	25-30 Foot Pounds
8625/8825/8925	25-30 Foot Pounds
8630/8830/8930	38-40 Foot Pounds
8635/8835/8935	38-40 Foot Pounds
8840/8940	60-70 Foot Pounds

8600, 8800 & 8900 Series Valves

STYLE	SIZE	A	B			C	D	E
			R-1	TS/TSC	SZ			
8810 8910	1" (25 mm)	1 13/16" (46 mm)	2 25/64" (61 mm)	2 23/32" (69 mm)	-	1 13/16" (46 mm)	2 3/4" (70 mm)	2" (51 mm)
8615 8815 8915	1 1/2" (38 mm)	2 1/4" (57 mm)	3 3/16" (81 mm)	3 3/64" (77 mm)	-	2 7/8" (54 mm)	3 1/2" (89 mm)	2 1/2" (64 mm)
8620 8820 8920	2" (51 mm)	3" (76 mm)	3 3/4" (95 mm)	3 3/4" (95 mm)	4 1/8" (105 mm)	2 3/4" (70 mm)	4 1/2" (114 mm)	3 1/4" (82.55 mm)
8625 8825 8925	2 1/2" (64 mm)	3 1/2" (89 mm)	4 1/4" (105 mm)	4 1/8" (105 mm)	4 1/2" (114 mm)	3 1/8" (79 mm)	5 3/8" (137 mm)	3 3/4" (95 mm)
8630 8830 8930	3" (76 mm)	4" (102 mm)	4 5/8" (105 mm)	4 1/2" (114 mm)	4 7/8" (124 mm)	3 1/2" (89 mm)	6 1/8" (156 mm)	4 1/4" (107.95 mm)
8635 8835 8935	3 1/2" (89 mm)	4" (102 mm)	4 5/8" (114 mm)	4 1/2" (114 mm)	-	3 1/2" (89 mm)	6 1/8" (156 mm)	4 1/4" (107.95 mm)
8840	4" (102 mm)	4" (102 mm)	-	-	-	4 1/8" (105 mm)	7 1/16" (179 mm)	5" (127 mm)
8940	4" (102 mm)	6" (152 mm)	-	-	-	4 1/8" (105 mm)	7 1/16" (179 mm)	5" (127 mm)

Bolts are to be tightened evenly. Tighten opposite bolts in sequence as indicated in the diagram, not adjacent bolts in sequence. After all bolts are initially tightened, repeat the process in the same sequence.



	Electric Actuator		Air Actuator		Gear Actuator with Handwheel			Rack and Sector		Slo-Cloz™	
Size	A	B	A	B	A	B	C	A	B	7875	7675
2"	6 39/64" (168mm)	4 1/32" (102 mm)	-	-	10 1/2" (267 mm)	1 21/32" (42 mm)	4" (102 mm)	-	-	1 7/8" (48 mm)	2 3/8" (60 mm)
2 1/2"	6 39/64" (168mm)	4 1/32" (102 mm)	-	-	10 1/2" (267 mm)	1 21/32" (42 mm)	4" (102 mm)	4 13/16" (122 mm)	3 1/2" (89 mm)	1 7/8" (48 mm)	2 3/8" (60 mm)
3"	6 39/64" (168mm)	4 1/32" (102 mm)	-	-	10 1/2" (267 mm)	1 21/32" (42 mm)	4" (102 mm)	4 13/16" (122 mm)	3 7/8" (98 mm)	1 7/8" (48 mm)	2 3/8" (60 mm)
3 1/2"	6 39/64" (168mm)	4 1/32" (102 mm)	-	-	10 1/2" (267 mm)	1 21/32" (42 mm)	4" (102 mm)	4 13/16" (122 mm)	3 7/8" (98 mm)	1 7/8" (48 mm)	2 3/8" (60 mm)
8840	12 1/4" (311 mm)	4 1/8" (105 mm)	5 15/16" (151 mm)	11 1/4" (286 mm)	12 7/16" (316 mm)	3 1/8" (79 mm)	6" (152 mm)	-	-	-	-
8940	12 1/4" (311 mm)	4 1/8" (105 mm)	6 3/4" (171 mm)	13 13/16" (351 mm)	12 7/16" (316 mm)	3 1/8" (79 mm)	6" (152 mm)	-	-	-	-



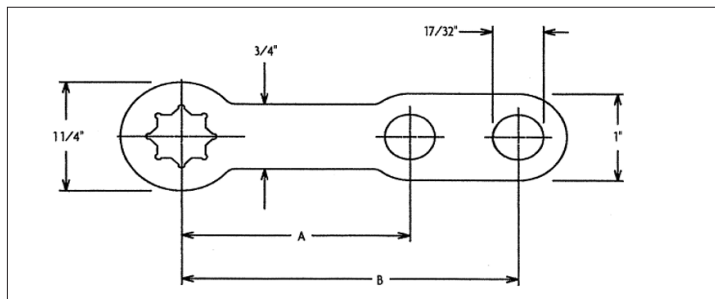
Technical Data

1" and 1.5" Swing-Out Valves

R1 Handles

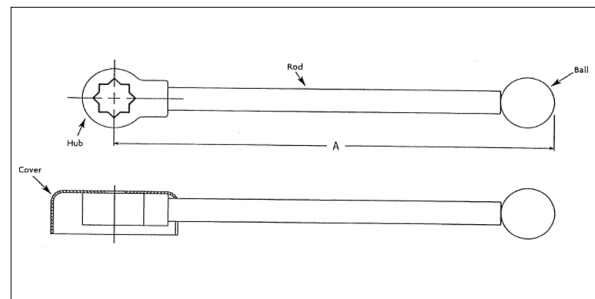
Part #	# of Holes	Dimensions		Handle Stroke Length	
		A	B	A	B
721236*	2	2 3/8" (60 mm)	3 1/2" (89 mm)	3 3/8" (86 mm)	5" (127 mm)
109150	1	-	3 1/4" (83 mm)	-	4 1/2" (114 mm)

*Standard



TS / TSC Handles

Type	Part #	Length
TS	78150064	5" (127 mm)
TS	78150062	8" (203 mm)
TSC	78150065	5" (127 mm)
TSC	78150087	8" (127 mm)

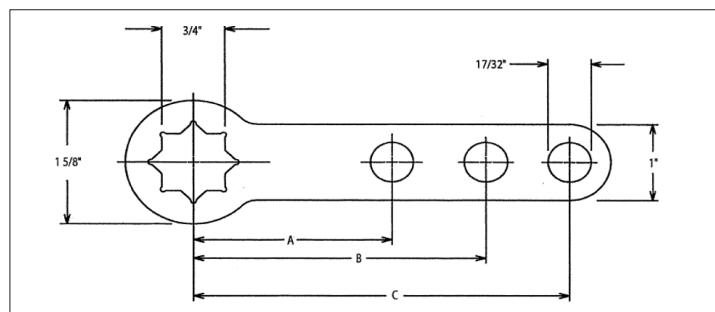


2" thru 3.5" Swing-Out Valves

R1 Handles

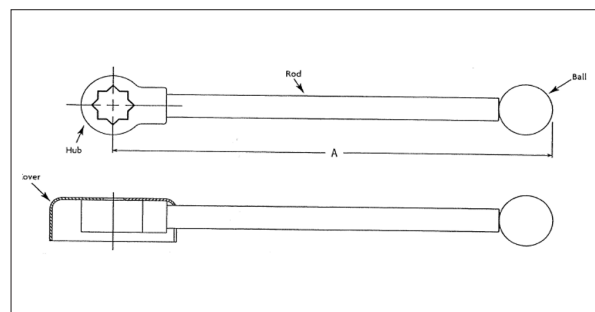
Part #	# of Holes	Dimensions			Handle Stroke Length		
		A	B	C	A	B	C
109149	2	-	2 3/4" (70 mm)	4 1/2" (114 mm)	-	4 3/8" (111 mm)	6 3/8" (162 mm)
119940	2	-	2 3/8" (60 mm)	3 1/2" (89 mm)	-	3 3/8" (86 mm)	5" (127 mm)
721238*	2	-	5" (127 mm)	6 3/4" (171 mm)	-	7" (178 mm)	9 1/2" (241 mm)
721237	3	2 3/8" (60 mm)	3 1/2" (89 mm)	4 1/2" (114 mm)	3 3/8" (86 mm)	5" (127 mm)	6 3/8" (162 mm)
721250	2	-	3 3/8" (86 mm)	4 1/2" (114 mm)	-	4 3/4" (121 mm)	6" (152 mm)
109093	2	-	3 1/4" (83 mm)	6 3/4" (171 mm)	-	4 5/8" (105 mm)	9 1/2" (241 mm)
721508	3	2 1/4" (57 mm)	3 1/4" (83 mm)	4 1/2" (114 mm)	3 1/4" (83 mm)	4 1/4" (108 mm)	6 3/8" (162 mm)

*Standard

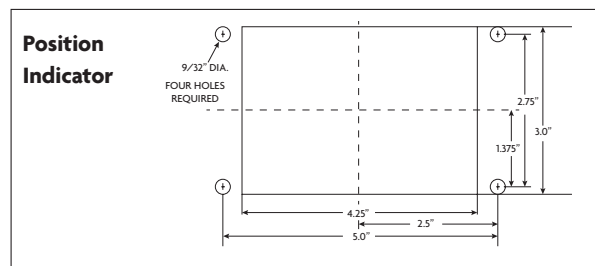
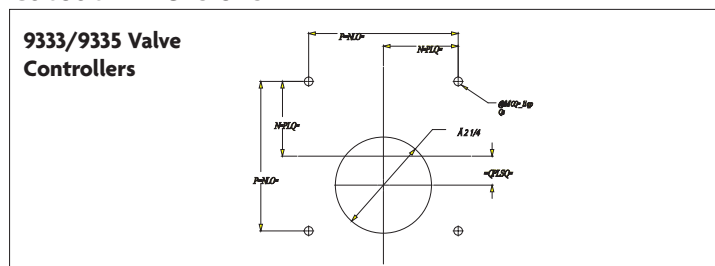


TS / TSC Handles

Type	Part #	Length
TS	78250567	5" (127 mm)
TS	78250568	7" (178 mm)
TS	78250563	9.25 (235 mm)
TS	78250562	11 (279 mm)
TSC	78250564	5" (127 mm)
TSC	78250888	7" (178 mm)
TSC	78250565	9.25 (235 mm)
TSC	78250493	11 (279 mm)



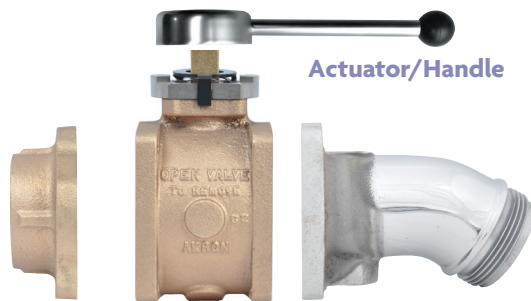
Cutout Dimensions



How to Order

To place an order, state the style number, inlet and outlet adapters needed (always list inlet adapter first), and the type of handle/actuator. All threaded adapters require thread information. Rigid female adapters are available only with tapered pipe thread (NPT). Hose threaded adapters will be supplied with National Hose (NH) thread unless otherwise specified.

Style	Description	Ball Type	Actuators
8615	1.5" Heavy Duty Non-Locking Swing-Out Valve	Stainless Steel	EA
8620	2" Heavy Duty Non-Locking Swing-Out Valve	Stainless Steel	SZ, EA or GA
8625	2 1/2" Heavy Duty Non-Locking Swing-Out Valve	Stainless Steel	SZ, R/S, EA or GA
8630	3" Heavy Duty Non-Locking Swing-Out Valve	Stainless Steel	SZ, R/S, EA or GA
8635	3 1/2" Heavy Duty Non-Locking Swing-Out Valve	Stainless Steel	GA
8810	1" Heavy Duty "Self Locking" Swing-Out Valve	Stainless Steel	RI, TS, TSC
8815	1 1/2" Heavy Duty "Self Locking" Swing-Out Valve	Stainless Steel	RI, TS, TSC
8820	2" Heavy Duty "Self Locking" Swing-Out Valve	Stainless Steel	RI, TS, or TSC
8825	2 1/2" Heavy Duty "Self Locking" Swing-Out Valve	Stainless Steel	RI, TS, or TSC
8830	3" Heavy Duty "Self Locking" Swing-Out Valve	Stainless Steel	RI, TS, or TSC
8835	3 1/2" Heavy Duty "Self Locking" Swing-Out Valve	Stainless Steel	RI, TS, or TSC
8840	4" Heavy Duty "Self Locking" Swing-Out Valve	Bronze, Flat	Air, EA or GA
8910	1" Heavy Duty "Self Locking" Swing-Out Valve	Polymer	RI, TS, TSC
8915	1 1/2" Heavy Duty Swing-Out Valve	Polymer	RI, TS, TSC, EA
8920	2" Heavy Duty Swing-Out Valve	Polymer	RI, TS, TSC, EA or GA
8925	2 1/2" Heavy Duty Swing-Out Valve	Polymer	RI, TS, TSC, SZ, RS, EA or GA
8930	3" Heavy Duty Swing-Out Valve	Polymer	RI, TS, TSC, EA or GA
8935	3 1/2" Heavy Duty Swing-Out Valve	Polymer	RI, TS, TSC, EA or GA
8940	4" Heavy Duty Swing-Out Valve	Polymer	Air, EA or GA



Inlet/Pump Side Adapter **Body** **Outlet Adapter**



Valve Body
Select style number from chart

Inlet Adapter
Select from adapter list

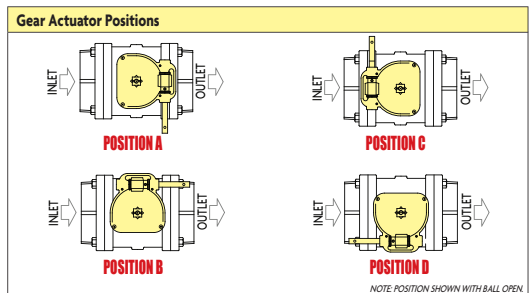
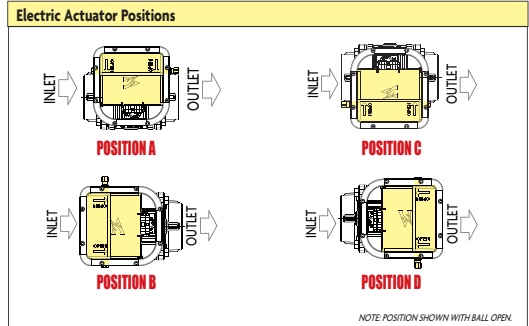
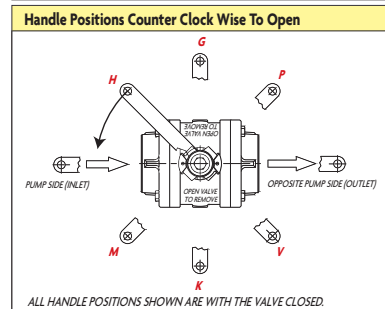
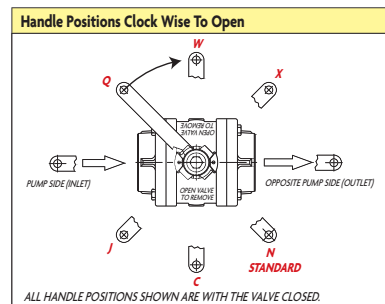
Outlet Adapter
Select from adapter list

Enter "CH" to specify chrome option where available. Refer to adapter list for availability. Leave Blank for Standard Cast Finish

Specify Actuator
Select from actuator chart above

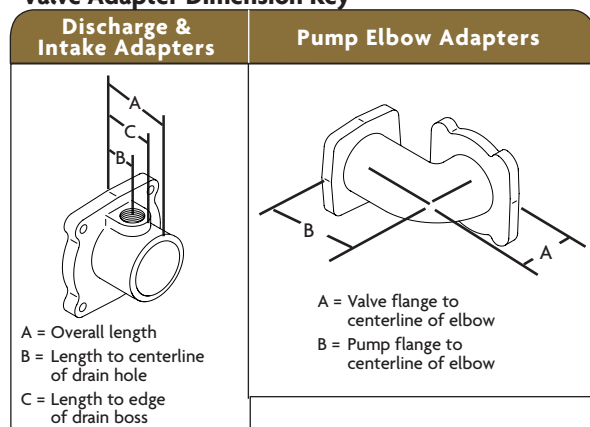
Specify Actuator Position
See chart at right for positions. "N" is standard for manual actuators

Optional Slo-Cloz™
Enter "SC" to specify or leave blank for no Slo-Cloz



Valve Adapter Options

Valve Adapter Dimension Key



KEY	
*	1/4" and 3/4" NPT taps
**	(2) 3/4" NPT taps
***	3/4" NPT tap
†	30° Angle
††	90° Angle
†††	Includes Strainer
+	Eccentric flange face
++	Slotted valve flange
+++	8 holes flange - Use 4
◇	(3) 3/4" NPT Taps
◇◇	Available in Cast or Chrome
#	For spacing only. 4 3/8" BCD each end.
###	(2) 3/4" NPT Taps and (1) 1" NPT Tap
◀	Non-standard items. May have longer lead times.


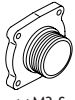


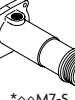






Rigid Male NPT Adapters

STYLE	SIZE							
	1" (25 mm)	1 1/2" (38 mm)	2" (50 mm)	2 1/2" (65 mm)	3" (75 mm)	3 1/2" (89 mm)	4" (100 mm)	
 MI-S	A	1 21/32" (42 mm) ◀	1 5/16" (33 mm)	1 5/8" (41 mm)	2" (51 mm)	2 1/16" (52 mm)	-	2 21/32" (75 mm) ◀
	B	-	-	-	-	-	-	-
	C	-	-	-	-	-	-	-
 MI2-S	A	-	-	1 15/16" (49 mm) ◀	-	3 3/4" (95 mm) ◀	-	-
	B	-	-	-	-	-	-	-
	THREAD	-	-	2 1/2" NPT (64 mm)	-	4" NPT (102 mm)	-	-

Rigid NPT Female Adapters

 PI-S	A	1 1/8" (29 mm)	1 1/8" (29 mm)	1 1/4" (32 mm)	1 7/8" (48 mm)	1 7/8" (48 mm)	2" (51 mm)	2 1/8" (54 mm)
	B	-	-	-	-	-	-	-
	C	-	-	-	-	-	-	-
 * P2-S	A	-	3 3/8" (86 mm)	3 1/4" (83 mm)	3 19/32" (91 mm)	3 7/16" (87 mm)	4" (102 mm)	4 5/16" (110 mm)
	B	-	1 5/8" (41 mm)	1 3/8" (35 mm)	1 3/8" (35 mm)	1 3/8" (35 mm)	1 3/8" (35 mm)	1 3/8" (35 mm)
	C	-	1 3/8" (35 mm)	2 1/8" (54 mm)	2 1/8" (54 mm)	2 1/8" (54 mm)	2 1/8" (54 mm)	2 19/32" (66 mm)
 P10-S	A	-	1 1/4" (32 mm) ◀	2 1/32" (52 mm) ◀	3 5/16" (84 mm) ◀	-	-	-
	B	-	-	-	-	-	-	-
	THREAD	-	2" NPT (51 mm)	2 1/2" NPT (64 mm)	3" NPT (76 mm)	-	-	-
 * P12-S	A	-	-	-	-	3 3/4" (95 mm)	-	-
	B	-	-	-	-	1 3/8" (35 mm)	-	-
	THREAD	-	-	-	-	4" NPT (102 mm)	-	-
 P20-SF	A	-	-	3 5/32" (80 mm) ◀	3 7/16" (87 mm) ◀	4" (102 mm) ◀	-	4" (102 mm) ◀
	THREAD	-	-	2" NPT (51 mm) 2 1/2" VIC (64 mm)	2 1/2" NPT (64 mm) 3" VIC (76 mm)	3" NPT (76 mm)	-	4" NPT (102 mm)
	For Flow Meter							
 ◇ ### P30-SCV	A	-	5 5/8" (143 mm) ◀	5 27/32" (148 mm) ◀	6 1/4" (159 mm) ◀	7 1/2" (191 mm) ◀	-	-
	B	-	1 21/32" (42 mm)	3 7/8" (98 mm)	4 9/32" (109 mm)	4 15/16" (125 mm)	-	-
	THREAD	-	1 1/2" NPT (34 mm) 2" VIC (51 mm)	2" NPT (51 mm)	2 1/2" NPT (64 mm)	3" NPT (76 mm)	-	-
Built-in Check Valve								

Male Discharge Adapters

STYLE	SIZE						
	1" (25 mm)	1 1/2" (38 mm)	2" (51 mm)	2 1/2" (64 mm)	3" (76 mm)	4" (102 mm)	
 ◊◊M1-S	A	1 1/16" (42 mm) ◀	1 3/16" (33 mm)	1 7/8" (41 mm)	2" (51 mm)	1 7/8" (48 mm)	2 27/32" (67 mm) ◀
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 ◊◊M2-S	A	-	-	1 15/16" (49 mm) ◀	-	-	-
	B	-	-	-	-	-	-
	THREAD	-	-	2 1/2" NH (64 mm)	-	-	-
 *◊◊M3-S	A	-	-	-	3 3/16" (81 mm)	3 5/16" (84 mm) ◀	3 19/32" (91 mm)
	B	-	-	-	1 3/8" (35 mm)	1 3/8" (35 mm)	1 13/16" (46 mm)
	C	-	-	-	2 1/8" (54 mm)	2 1/8" (54 mm)	2 5/8" (67 mm)
 *◊◊M4-S	A	-	-	-	5" (127 mm)	5" (127 mm)	8 3/4" (222 mm)
	B	-	-	-	1 3/8" (35 mm)	1 3/8" (35 mm)	1 13/16" (46 mm)
	C	-	-	-	2 1/8" (54 mm)	2 1/8" (54 mm)	2 15/32" (63 mm)
 *◊◊M7-S	A	-	-	-	6 1/2" (165 mm) ◀	-	-
	B	-	-	-	1 3/8" (35 mm)	-	-
	C	-	-	-	2 1/8" (54 mm)	-	-
 *M8-S	A	-	-	2 7/8" (73 mm) ◀	-	-	-
	C	-	-	1 17/64" (32 mm)	-	-	-
	THREAD	-	-	1 1/2" NH (38 mm)	-	-	-
 *M10-S	A	-	-	3 7/32" (82 mm) ◀	-	-	-
	B	-	-	1 25/64" (35 mm)	-	-	-
	THREAD	-	-	2 1/2" NH (64 mm)	-	-	-
 *†◊◊ ME1-S	A	-	-	-	6 5/8" (168 mm)	7" (178 mm)	9 3/4" (248 mm) ◀
	B	-	-	-	1 3/8" (35 mm)	1 3/8" (35 mm)	1 5/8" (41 mm)
	C	-	-	-	2 1/8" (54 mm)	2 1/8" (54 mm)	2 5/16" (59 mm)
 *†◊◊ ME3-S	A	-	-	-	10 3/16" (278 mm)	-	-
	B	-	-	-	1 3/8" (35 mm)	-	-
	C	-	-	-	2 1/8" (54 mm)	-	-
 *†◊◊ ME4-S	A	-	-	-	12 5/16" (313 mm) ◀	-	-
	B	-	-	-	1 3/8" (35 mm)	-	-
	C	-	-	-	2 1/8" (54 mm)	-	-
 *†◊◊ ME5-S 2 1/2" Thread	A	-	-	-	-	6 7/8" (175 mm) ◀	-
	B	-	-	-	-	1 3/8" (35 mm)	-
	C	-	-	-	-	2 1/8" (54 mm)	-




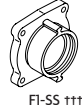

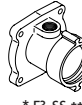


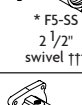
KEY	
*	1/4" and 3/4" NPT taps
**	(2) 3/4" NPT taps
***	3/4" NPT tap
†	30° Angle
††	90° Angle
†††	Includes Strainer
+	Eccentric flange face
++	Slotted valve flange
+++	8 holes flange - Use 4
◊	(3) 3/4" NPT Taps
◊◊	Available in Cast or Chrome
#	For spacing only. 4 3/8" BCD each end.
###	(2) 3/4" NPT Taps and (1) 1" NPT Tap
◀	Non-standard items. May have longer lead times.

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Female Intake Adapters Chrome Swivels (Hose Thread)

KEY	
*	1/4" and 3/4" NPT taps
**	(2) 3/4" NPT taps
***	3/4" NPT tap
↑	30° Angle
↑↑	90° Angle
↑↑↑	Includes Strainer
+	Eccentric flange face
++	Slotted valve flange
+++	8 holes flange - Use 4
◇	(3) 3/4" NPT Taps
◇◇	Available in Cast or Chrome
#	For spacing only, 4 3/8" BCD each end.
###	(2) 3/4" NPT Taps and (1) 1" NPT Tap
◀	Non-standard items. May have longer lead times.

STYLE		SIZE					
		1 1/2" (38 mm)	2" (51 mm)	2 1/2" (64 mm)	3" (76 mm)	3 1/2" (89 mm)	4" (102 mm)
 FI-S	A	-	-	2 15/16" (75 mm) ◀	-	-	-
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 ***F2-S	A	-	-	3 1/2" (89 mm) ◀	-	-	-
	B	-	-	1 3/8" (35 mm)	-	-	-
	C	-	-	2 1/8" (54 mm)	-	-	-
 *F3-S	A	-	-	5 1/2" (140 mm) ◀	-	-	-
	B	-	-	1 3/8" (35 mm)	-	-	-
	C	-	-	2 1/8" (54 mm)	-	-	-
 FI-SS ↑↑↑	A	-	-	2 15/16" (75 mm)	2 15/16" (75 mm) ◀	-	-
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 ***F2-SS ↑↑↑	A	-	-	3 1/2" (89 mm)	3 3/4" (95 mm)	-	-
	B	-	-	1 3/8" (35 mm)	1 3/8" (35 mm)	-	-
	C	-	-	2 1/8" (54 mm)	2 1/8" (54 mm)	-	-
 *F3-SS ↑↑↑	A	-	-	5 1/2" (140 mm) ◀	5 1/2" (140 mm)	-	-
	B	-	-	1 3/8" (35 mm)	1 3/8" (35 mm)	-	-
	C	-	-	2 1/8" (54 mm)	2 1/8" (54 mm)	-	-
 ***F4-SS 2 1/2" swivel ↑↑↑	A	-	-	-	3 13/16" (97 mm) ◀	-	-
	B	-	-	-	1 3/8" (35 mm)	-	-
	C	-	-	-	2 1/8" (54 mm)	-	-
 *F5-SS 2 1/2" swivel ↑↑↑	A	-	-	-	5 1/2" (140 mm)	-	-
	B	-	-	-	1 3/8" (35 mm)	-	-
	C	-	-	-	2 1/8" (54 mm)	-	-
 *↑ FE3-SS ↑↑↑	A	-	-	7 1/8" (181 mm)	7 3/4" (197 mm) ◀	-	-
	B	-	-	1 3/8" (35 mm)	1 3/8" (35 mm)	-	-
	C	-	-	2 1/8" (54 mm)	2 1/8" (54 mm)	-	-

Flex Hose Adapters

STYLE	SIZE							
	1" (25 mm)	1 1/2" (38 mm)	2" (51 mm)	2 1/2" (64 mm)	3" (76 mm)	3 1/2" (89 mm)	4" (102 mm)	
 PI-SH	A	-	-	-	-	1 15/16" (49 mm)	-	2 5/16" (59 mm) ◀
	B	-	-	-	-	-	-	-
	C	-	-	-	-	-	-	-
 PI2-SH	A	-	-	-	-	1 15/16" (49 mm)	-	-
	3" Adapter with 4" Flex Connection							

KEY	
*	1/4" and 3/4" NPT taps
**	(2) 3/4" NPT taps
***	3/4" NPT tap
↑	30° Angle
↑↑	90° Angle
↑↑↑	Includes Strainer
+	Eccentric flange face
++	Slotted valve flange
+++	8 holes flange - Use 4
◊	(3) 3/4" NPT Taps
◊◊	Available in Cast or Chrome
#	For spacing only. 4 3/8" BCD each end.
###	(2) 3/4" NPT Taps and (1) 1" NPT Tap
◀	Non-standard items. May have longer lead times.















Grooved Fitting Adapters

 VI-S	A	1 11/16" (43 mm) ◀	1 3/4" (44 mm)	1 29/32" (48 mm)	1 29/32" (48 mm)	2 3/32" (53 mm)	2 5/32" (53 mm) ◀	2 1/4" (57 mm)
	B	-	-	-	-	-	-	-
	C	-	-	-	-	-	-	-
 * V3-S	A	-	3 5/16" (84 mm)	3 1/4" (83 mm)	3 3/16" (81 mm)	3 5/16" (84 mm)	-	4" (102 mm)
	B	-	1 3/8" (35 mm)	1 3/8" (35 mm)	1 3/8" (35 mm)	1 3/8" (35 mm)	-	1 15/16" (49 mm)
	C	-	-	-	-	-	-	-
 * V4-S	A	-	-	-	3 1/2" (89 mm)	-	-	-
	B	-	-	-	1 3/8" (35 mm)	-	-	-
	C	-	-	-	2 1/8" (54 mm)	-	-	-
2 1/2" (64 mm) with 3" (76 mm) Victaulic								
 * V5-S	A	-	-	3 1/4" (83 mm)	-	-	-	-
	B	-	-	1 3/8" (35 mm)	-	-	-	-
	C	-	-	2" (51 mm)	-	-	-	-
 ◊◊ VTI-S	A	-	-	-	-	2 5/32" (52 mm)	-	2 11/32" (60 mm) ◀
	3" (76 mm) has 3" (76 mm) NPT + 4" (102 mm) Victaulic							
4" (102 mm) has 4" (102 mm) NPT + 5" (127 mm) Victaulic								
 ↑↑ VE1-S * 2" *** 1 1/2"	A	-	-	3 3/4" (95 mm)	-	-	-	-
	B	-	-	3" (76 mm)	-	-	-	-
	C	-	-	-	-	-	-	-
 *↑↑ VE2-S	A	-	-	5 3/4" (146 mm) ◀	-	-	-	-
	B	-	-	2 31/32" (75 mm)	-	-	-	-
	C	-	-	-	-	-	-	-
 V20-SF For Flow Meter	A	-	-	3 3/16" (81 mm) ◀	-	-	-	-
	B	-	-	1 1/4" (32 mm)	-	-	-	-
	THREAD	-	-	2" VIC (51 mm)	-	-	-	-
 ◊### V30-SCV	A	-	-	5 27/32" (148 mm)	6 1/4" (159 mm)	7 1/2" (191 mm) ◀	-	-
	B	-	-	3 7/8" (98 mm)	4 9/32" (109 mm)	4 15/16" (125 mm)	-	-
	Built-in Check Valve							



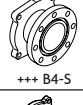
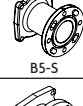
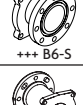
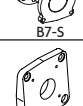
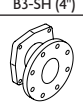
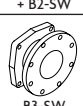
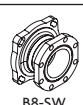

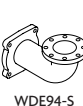


Pump Flange Adapters (Hale Pump Use)

KEY	
*	1/4" and 3/4" NPT taps
**	(2) 3/4" NPT taps
***	3/4" NPT tap
†	30° Angle
††	90° Angle
†††	Includes Strainer
+	Eccentric flange face
++	Slotted valve flange
+++	8 holes flange - Use 4
◊	(3) 3/4" NPT Taps
◊◊	Available in Cast or Chrome
#	For spacing only. 4 3/8" BCD each end.
###	(2) 3/4" NPT Taps and (1) 1" NPT Tap
NS	Non-standard items. May have longer lead times.

STYLE		SIZE					
		2 1/2" (64 mm)	3 1/2" (76/89 mm)	4" (102 mm)	ANGLE	BOLT HOLES	BOLT CIR. DIA.
 B1-SE	A	-	2 7/8" (73 mm)	-	-	8	5 3/4" (146 mm)
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 + B2-SE	A	-	2 7/8" (73 mm)	-	26°	8	5 3/4" (146 mm)
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 B3-SE	A	-	3 1/8" (79 mm)	4"	3°30'	8	5 3/4" (146 mm)
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 B6-SE	A	-	6 7/8" (175 mm) NS	-	4°	8	5 3/4" (146 mm)
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 B8-SH (Octagonal Flange)	A	-	-	4"	-	8	5 3/4" (146 mm)
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 B20-SFH	A	-	-	5 27/64" (138 mm) ◀	-	8	5 3/4" (146 mm)
	B	-	-	2 43/64" (68 mm)	-	-	-
For Flow Meter							
 ++ HD1-S	A	6 1/4" (159 mm)	5 3/4" (146 mm)	-	-	4	4 3/8" (111 mm)
	B	-	-	-	-	-	-
	Angle	5°20'	7°	-	-	-	-
 ++ HD2-S	A	8 1/4" (210 mm)	7 3/4" (197 mm)	-	-	4	4 3/8" (111 mm)
	B	-	-	-	-	-	-
	Angle	3°45'	4°	-	-	-	-
 HD4-S	A	5 1/4" (133 mm) ◀	-	-	14°5'	4	4 3/8" (111 mm)
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 ++ SE1-S	A	3 1/4" (83 mm)	2 3/4" (70 mm) ◀	-	90°	4	4 3/8" (111 mm)
	B	5 1/4" (133 mm)	6" (152 mm)	-	-	-	-
	C	-	-	-	-	-	-
 ++ SE2-S	A	5 1/4" (133 mm)	4 3/4" (121 mm) ◀	-	90°	4	4 3/8" (111 mm)
	B	5 1/4" (133 mm)	6" (152 mm)	-	-	-	-
	C	-	-	-	-	-	-
 ++ SE3-S	A	2 1/2" (64 mm) ◀	-	-	90°	4	4 3/8" (111 mm)
	B	7 3/4" (197 mm)	-	-	-	-	-
	C	-	-	-	-	-	-
 SE4-S	A	8.5" (216 mm) ◀	-	-	-	4	4 3/8" (111 mm)
	B	6" (152 mm)	-	-	-	-	-
	C	-	-	-	-	-	-
 DE3-S	A	-	-	4 15/16" (125 mm)	94°	8	5 3/4" (146 mm)
	B	-	-	5" (127mm)	-	-	-
	C	-	-	-	-	-	-

Pump Flange Adapters (Waterous Pump Use)



STYLE	SIZE				ANGLE	BOLT HOLE	BOLT CIR. DIA.
	2" (51 mm)	2 1/2" (64 mm)	3"/3 1/2" (76/89 mm)	4" (102 mm)			
 B1-S	A	2 5/8" (67 mm)	2 5/8" (67 mm)	2 7/8" (73 mm)	-	4 (8 on 2")	4 3/8" (111 mm)
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 B1-SX	A	-	2 5/8" (67 mm)	-	-	4 slots	4 3/8" (111 mm)
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 +++ B4-S	A	-	2 5/8" (67 mm)	2 7/8" (73 mm) ◀	-	8	4 3/8" (111 mm)
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 B5-S	A	-	4 5/8" (117 mm)	-	-	4 slots & 4 holes	4 3/8" (111 mm)
	A	-	-	4 1/2" (114 mm) ◀	-	4 slots	4 3/8" (111 mm)
	B	-	-	-	-	-	-
 +++ B6-S	A	-	6" (152 mm)	-	-	8	4 3/8" (111 mm)
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 B7-S	A	-	5 1/2" (140 mm) ◀	-	-	4 slots & 4 holes	4 3/8" (111 mm)
 B3-SH	A	-	-	13/16"-1 1/32" (21-34 mm)	-	4	7 25/32" (198 mm)
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 B3-SH (4")	A	-	-	-	2" Total (51 mm) ◀	4	7 25/32" (198 mm)
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 + B2-SW	A	-	-	2 7/8" (73 mm)	-	26°	5 1/2" (140 mm)
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 B3-SW	A	-	-	3 1/8" (79 mm)	-	4°	5 1/2" (140 mm)
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 B8-SW	A	-	-	-	4" (102 mm)	-	5 1/2" (140 mm)
	B	-	-	-	-	-	-
	C	-	-	-	-	-	-
 +++ B1-SEW	A	-	-	2 7/8" (73 mm)	-	8 slots	5 1/2" (140 mm)
 WDEI-S	A	-	-	4 9/16" (112 mm) ◀	-	90°	5 1/2" (140 mm)
	B	-	-	4 5/16" (110 mm)	-	-	-
	C	-	-	-	-	-	-
 WDE94-S	A	-	-	-	9 1/2" (241 mm) ◀	94°	5 1/2" (140 mm)
	B	-	-	-	5" (127 mm)	-	-
	C	-	-	-	-	-	-

KEY	
*	1/4" and 3/4" NPT taps
**	(2) 3/4" NPT taps
***	3/4" NPT tap
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††	90° Angle
†††	Includes Strainer
+	Eccentric flange face
++	Slotted valve flange
+++	8 holes flange - Use 4
◊	(3) 3/4" NPT Taps
◊◊	Available in Cast or Chrome
#	For spacing only. 4 3/8" BCD each end.
###	(2) 3/4" NPT Taps and (1) 1" NPT Tap
◀	Non-standard items. May have longer lead times.

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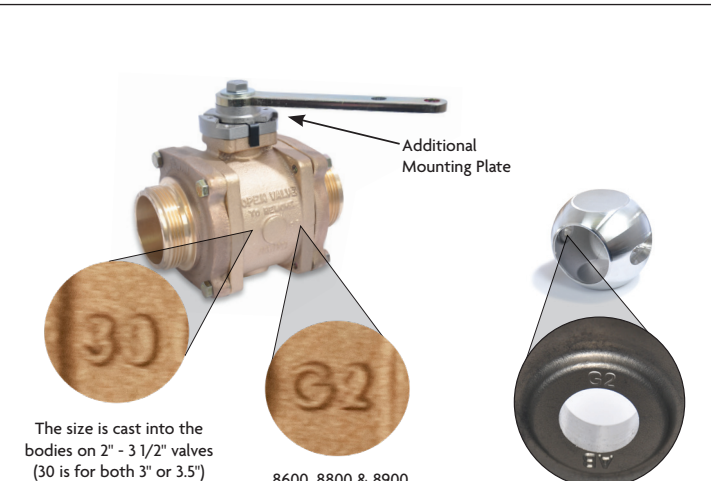
Pump Flange Adapters General Use

STYLE	SIZE					
	2" (51 mm)	4" (102 mm)	ANGLE	BOLT HOLE	BOLT CIR. DIA.	
 +++ DE1-S	A	3 3/4" (95 mm)	-	90°	8	4 3/8" (111 mm)
	B	4 13/16" (122 mm)	-	-	-	-
	C	-	-	-	-	-
 +++ DE2-S	A	3 3/4" (95 mm)	-	90°	8	4 3/8" (111 mm)
	B	5 1/2" (140 mm)	-	-	-	-
	C	-	-	-	-	-

Valve Repair Kits Generation I and II

Valve Style	Basic Service Kit # (O-rings and Seats only)	Complete Service Kit # (O-rings, Seats, and Ball)
8620/8820	9204	9145
8625/8825	9205	9146
8630/8830	9206	9147
8635/8835	9206	9147
8810	9208	8803
8815	9209	8804
8840	9166	-
8910	9208	8903
8615/8915	9209	8904
8920	9204	8905
8925	9205	8906
8930	9206	8907
8935	9206	8907
8940	-	8908
7610/7810	9208	8903
7615/7815	9209	8904
7620/7820	9204	8905
7625/7825	9205	8906
7630/7835	9206	8907
7635/7835	9206	8907
7840	-	8908

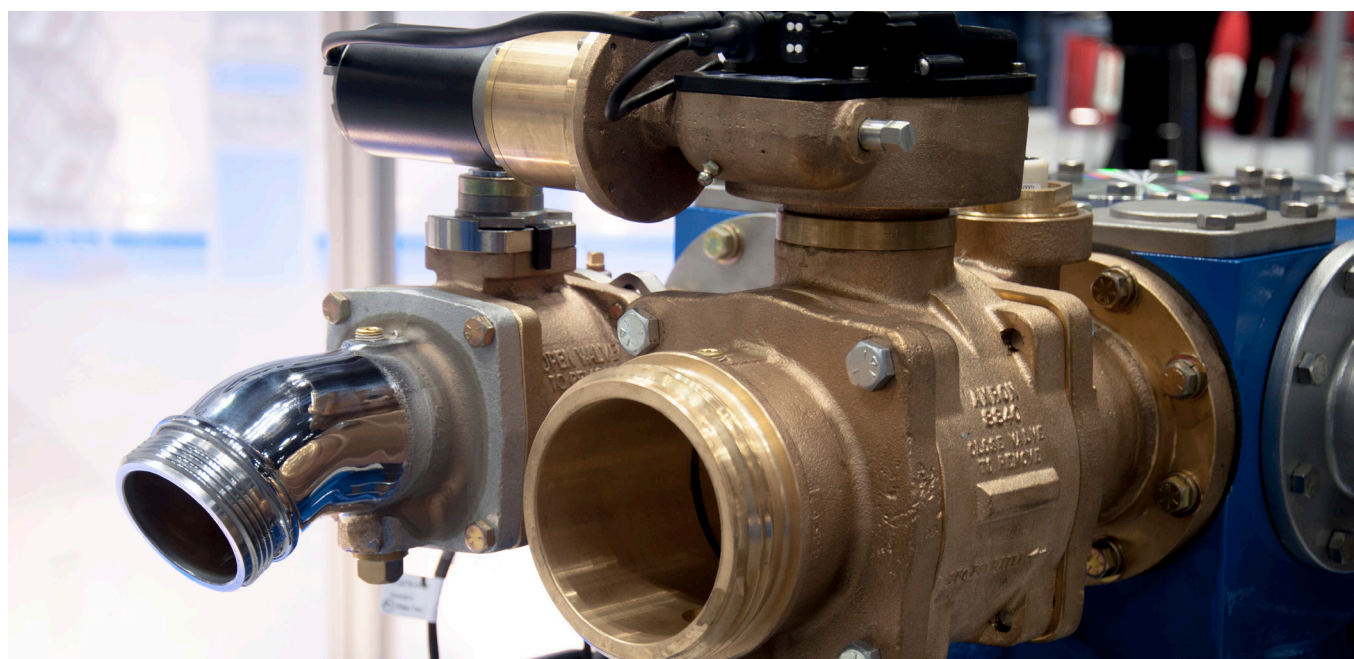
Swing-Out™ Valve ID for 2 - 3.5" Generation II



The size is cast into the bodies on 2" - 3 1/2" valves (30 is for both 3" or 3.5")

8600, 8800 & 8900 Generation II Valves have "G2" in the Casting

Generation II Stainless Steel Balls with Hydromax™ Technology are marked with "G2"





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