



Appendix B - Premium Actuated Valve Part Number Selection

The section is provided for formulation of part numbers on custom actuated valve packages. A 3-step process is used to build custom actuated valve part numbers:

Step 1 - Select the desired type, style, options and material of valve from appropriate Valve Selection Table. Specify nominal valve size from Size Code available.

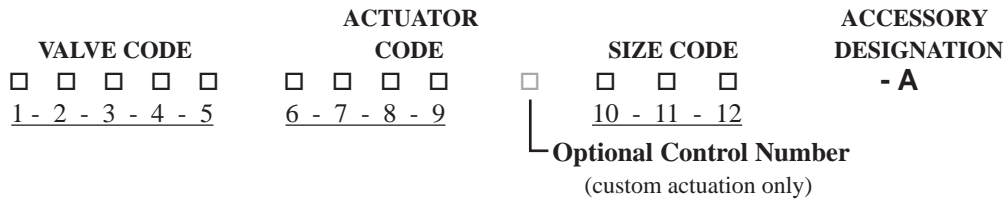
Step 2 - Select the desired actuator style options from the Actuator Selection Tables

Step 3 - Select desired actuator accessories (if any) from the Accessories Selection Tables.

IMPORTANT: Custom accessories are ordered under a separate part number from the actuated Valve Package. Accessory part numbers are ordered individually and factory assembled with selected Actuated Valve Package.

If any accessories are being ordered, add the suffix, "- A" to the end of the Actuated Valve Package part number. This suffix is added only if an Accessory(s) is being selected for add on to the initial Actuated Valve Package.

ACTUATED VALVE PACKAGE PART NUMBER POSITIONS

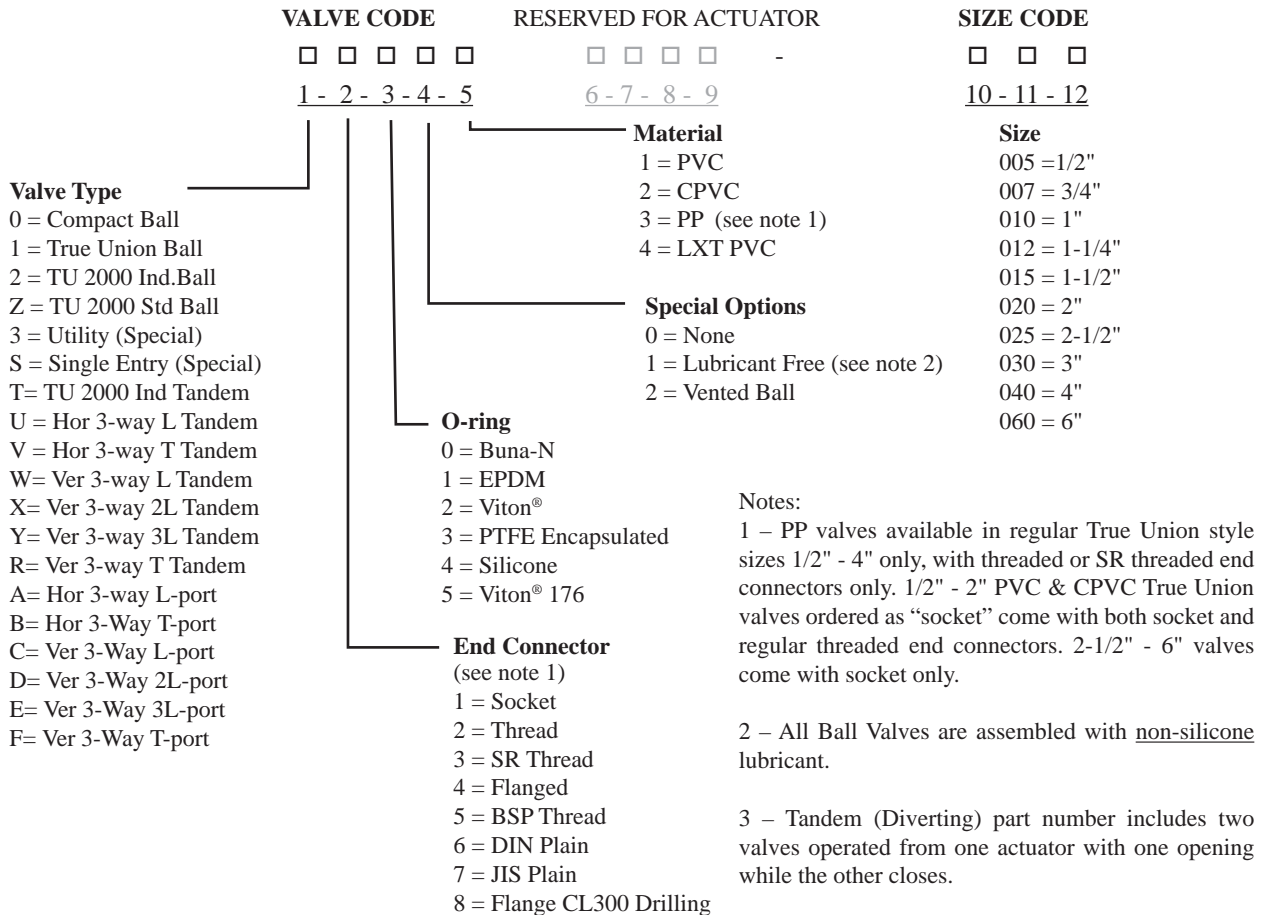


Step 1: Valve & Size Code Selection

Spears® actuated valve selection table include Ball Valves (Selection Table 1) Butterfly Valves (Selection Table 2), Diaphragm Valves (Selection Table 3) and Gate Valves (Selection Table 3A). Use the table information to complete the Valve Code in the package part number.

Table 1: BALL VALVES

(Valve Type - End Connector - O-ring - Special Options - Material - Size Selection)



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Table 2: BUTTERFLY VALVES
(Valve Type - Stem - Seat & O-ring - Special Options - Material - Size Selection)

	VALVE CODE					Reserved for Actuator				SIZE CODE		
	□	□	□	□	□	□	□	□	□	□	□	□
	1	2	3	4	5	6	7	8	9	10	11	12
Valve Type	4 = Std. Butterfly 5 = True Lug Butterfly 6 = Tandem 3-Way (see note 6) 7 = Tandem Diverting (see note 7) 8 = High Purity TFM J = Pool Butterfly - white (see note 8) K = Wafer Butterfly L = Shaved Std. Butterfly					Material				Size (see note 5)		
Stem Material	1 = SS 316 2 = PTFE Coated SS 316 3 = Titanium 4 = Hastaloy 5 = SS 316 Dry Stem					1 = PVC (see note 1) 2 = CPVC 3 = PP (see note 2)				015 = 1-1/2" 020 = 2" 025 = 2-1/2" 030 = 3" 040 = 4" 060 = 6" 080 = 8" 100 = 10" 120 = 12" 140 = 14" 160 = 16" 180 = 18" 200 = 20" 240 = 24"		
						Special Options (see note 3)						
						0 = None 1 = Zinc plated Lugs 2 = SS 316 Lugs 3 = Non lubricated 4 = Zinc lug/ non lubricated 5 = SS 316 lug/ non lubricated 6 = No Seat (duct application)						
						Seat & O-ring (see note 4)						
						1 = Buna-N 2 = EPDM 3 = Viton® 4 = PTFE Sleeved 5 = TFM 6 = PTFE Sleeved EPDM						

Notes:

- 1 – PVC and CPVC valves available through 12" only.
- 2 – PP valves available in Standard Butterfly style only.
- 3 – Lugs specified with True Lug style only.
- 4 – PP valves are standard with EPDM or Viton®.
- 5 – PP actuated valve sizes 14" and larger are custom produced to order, contact Spears® Technical Services.
- 6 – Tandem 3-Way part number includes two valves operated from one actuator, both closing or both opening at the same time.
- 7 – Tandem Diverting part number includes two valves operated from one actuator with one opening while the other closes.
- 8 – Pool Butterfly Valves available in sizes 1-1/2" to 12" with SS316 Stem, EPDM Seats, PVC White only. No other options are available.



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Table 3: DIAPHRAGM VALVES
(Valve Type - End Connector - O-ring - Diaphragm - Material - Size Selection)

	VALVE CODE	Reserved for Actuator	-	SIZE CODE
	□ □ □ □ □	□ □ □ □		□ □ □
	1 - 2 - 3 - 4 - 5	6 - 7 - 8 - 9		10 - 11 - 12
<p>Valve Type</p> <p>9 = Diaphragm Valve H = Zero Dead Leg</p> <p>End Connector (see note 1)</p> <p>1 = Socket (True Union) 2 = Thread (True Union) 3 = SR Thread (True Union) 4 = Spigot 5 = Flanged 6 = DIN Plain 7 = JIS 8 = BSP Thread</p>	<p>Material (see note 1)</p> <p>1 = PVC 2 = CPVC 3 = PP 4 = LXT PVC 5 = PVC/Hastaloy-C Bolts 6 = CPVC/Hastaloy-C Bolts 7 = PVC/Titanium Bolts 8 = CPVC/Titanium Bolts</p> <p>Diaphragm</p> <p>1 = Buna-N 2 = EPDM 3 = Viton® 4 = Hypalon® (CSM) 5 = PTFE w/EPDM 6 = PTFE w/Viton®</p> <p>O-ring (see note 2)</p> <p>0 = None 1 = EPDM 2 = Viton® 3 = PTFE Encapsulated</p>	<p>Size (see note 1)</p> <p>005 = 1/2" 007 = 3/4" 010 = 1" 012 = 1-1/4" 015 = 1-1/2" 020 = 2" 025 = 2-1/2" 030 = 3" 040 = 4" 060 = 6" 080 = 8"</p>		

Notes:

- 1 – All valves with socket, thread, or SR thread end connectors are True Union style only.
 Socket end connectors available on PVC and CPVC valve sizes 1/2" - 2" only.
 Thread and SR thread end connectors available on PVC, CPVC, and PP valve sizes 1/2" - 2" only.
 DIN, JIS, and BSP end connectors available on PVC and CPVC valve sizes 1/2" - 2" only.
 Flanged end connectors available on all sizes of PVC and CPVC valves.
 Flanged end connectors available on PP valve sizes 3" and larger only.
 Zero Dead Leg valves are Socket Tee x selected End Connector code.
- 2 – O-rings are used on True Union style valves sizes 1/2" - 2" with socket, thread, or SR thread end connectors only.
 Enter "0" for all other end connectors.



Appendix B - Premium Actuated Valve Part Number Selection

Step 2: Actuator Code Selection

Spears® actuated valves are available with either electric or pneumatic motors. Actuators are pre matched to each type and size of valve with proper operating torque and cycle time. Additional actuator accessories are selected and are factory installed on the Actuated Valve Package in Step 3 instructions.

Select the applicable options from either the Electric Actuators (Selection Table 4) or Pneumatic Actuators (Selection Table 5) and enter the designated **Actuator Code** portion of the package part number.

Table 4: ELECTRIC ACTUATORS
(Voltage - Enclosure Rating - Manual Override - Duty Cycle)

ACTUATOR CODE				Optional Control Number (custom actuation only)							
□ □ □ □ □	□ □ □ □	□	□ □ □								
<u>1 - 2 - 3 - 4 - 5</u>	<u>6 - 7 - 8 - 9</u>		<u>10 - 11 - 12</u>								
Reserved for Valve			Reserved for Size								
<p>Voltage (see note 1)</p> <p>A = 115 VAC 60 Hz B = 230 VAC 60 Hz C = 230 VAC 3-phase 50 Hz (EU) D = 230 VAC 3-phase 60 Hz E = 24 VAC F = 12 VDC G = 24 VDC L = 460 VAC 3-Phase 50 Hz (EU) M = 460 VAC 3-Phase 60 Hz R = 415 VAC 3-Phase 50 Hz (EU) S = 230 VAC 50 Hz (EU) X = Single Indicator Switch Only (see note 2) Y = Double Indicator Switch Only (see note 2) Z = Actuator Bracket Only (see note 2)</p> <p>Enclosure</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1 = NEMA 4</td> <td style="width: 50%;">5 = NEMA 4 Double Powder Coated</td> </tr> <tr> <td>2 = NEMA 4x</td> <td>6 = NEMA 4x Double Powder Coated</td> </tr> <tr> <td>B = NEMA 6</td> <td>7 = NEMA 7 Double Powder Coated</td> </tr> <tr> <td>3 = NEMA 7</td> <td>8 = NEMA 9 Double Powder Coated</td> </tr> <tr> <td>4 = NEMA 9</td> <td>9 = AWWA</td> </tr> </table> <p>C = NEMA 6P, IP68 (Prolonged submersion in water, as long as all sealing protocols are followed in installation) A = NEMA 7 Modulation enclosure (for 1/2" - 2" modulated Ball & Butterfly)</p>	1 = NEMA 4	5 = NEMA 4 Double Powder Coated	2 = NEMA 4x	6 = NEMA 4x Double Powder Coated	B = NEMA 6	7 = NEMA 7 Double Powder Coated	3 = NEMA 7	8 = NEMA 9 Double Powder Coated	4 = NEMA 9	9 = AWWA	<p>Duty Cycle (see note 3)</p> <p>1 = 25% 2 = 75% 3 = 100% 4 = 50% 5 = 70% (custom only) 6 = 80% (custom only)</p> <p>Manual Override (see note 4)</p> <p>0 = None 1 = Basic Manual Override 2 = Declutchable Manual Override 3 = Spring Return Open with Declutchable Manual Override (see note 5) 4 = Spring Return Close with Declutchable Manual Override (see note 5) 5 = Spring Return Open no override (see note 5) 6 = Spring Return Close no override (see note 5) 7 = RCE Battery Backup Actuator 8 = Spring Return Open with Basic Manual Override (see note 5) 9 = Spring Return Close with Basic Manual Override (see note 5)</p>
1 = NEMA 4	5 = NEMA 4 Double Powder Coated										
2 = NEMA 4x	6 = NEMA 4x Double Powder Coated										
B = NEMA 6	7 = NEMA 7 Double Powder Coated										
3 = NEMA 7	8 = NEMA 9 Double Powder Coated										
4 = NEMA 9	9 = AWWA										

Notes:

- 1 - 460 VAC available on Butterfly Valves only.
- 2 - Bracket & Indicator Switch Only part numbers do not allow any other options (must be Z000, Y000, or X000)
- 3 - **Standard Duty Cycles** vary according to valve type and size as indicated in chart below. Standard Duty Cycles can be *upgraded* only. Note: 50% duty cycle available on non-standard, special order actuators only.

Valve Type	Size Range	25% Duty Cycle	75% Duty Cycle	
Ball Valve	1/2" - 2"		X	
Ball Valve	2-1/2" - 4"	X		
Butterfly Valve	1-1/2" - 10"	X		
Butterfly Valve	12" - 24"			X
Diaphragm Valve	1/2" - 8"	X		

- 4 - Basic Manual Override is standard on Ball Valve sizes 1/2" - 3" with Declutchable Manual Override as an option. Declutchable Manual Override is standard on Ball Valve sizes 4" & larger and all Butterfly Valves. Standard Gate Valve and Diaphragm Valve packages have no override with Declutchable Manual Override as an option. Spring return not available on electric Diaphragm valves.
- 5 - Electric Spring Return Actuators come standard with no type of override. Need to verify if either Declutchable Manual Override or Basic Manual Overrides are available in all applications.

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Actuator Only Part Numbers

Individual Premium Electric actuators can be ordered for specific Spears® valve types and sizes. Includes actuator and mounting hardware for specified valve type and size. To specify valve type for actuator only, enter the first digit valve type code followed by zeros ("0") for remaining 4-digits of the valve code section of the part number plus the applicable 3-digit valve size code (see valve selection Tables 1, 2, or 3). Complete the actuator code selection as described in this section. See Step 3 for any desired actuator accessories.

Example: A 115 VAC electric actuator only with NEMA 4 enclosure, basic manual override and 75% duty cycle for 2" standard True Union Ball Valve would have the following part number: 10000A112-020



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Table 5: PNEUMATIC ACTUATOR
(Operation - Operating Pressure - Manual Override)

<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <u>1 - 2 - 3 - 4 - 5</u> Reserved for Valve	ACTUATOR CODE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <u>6 - 7 - 8 - 9</u>	Optional Control Number (not used on basic packages) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <u>10 - 11 - 12</u> Reserved for Size	
<p>Operation Mode</p> <p>H = Air-to-Air N = Air-to Air, Extended Stops J = Air-to-Spring Close K = Air-to Spring Open O = Air-to-Spring Close, Extended Stops P = Air-to Spring Open, Extended Stops W = 3-Way Ball Valve Actuator</p> <p>(see note 1)</p> <p>Operating (Supply) Pressure</p> <p>(see note 2)</p> <p>1 = 80 psi 2 = 60 psi 3 = 40 psi 4 = 20-100 psi specified (must use with optional Control Number below) 5 = 140 psi (Diaphragm Valve only) 6 = 150 psi 7 = 120 psi</p>	<p>Manual Override</p> <p>(see note 3)</p> <p>0 = None 1 = Basic Manual Override (no operator Hand wheel) 2 = Declutchable Manual Override (w/Hand wheel) 3 = Manual Override (w/Hand wheel)</p> <p>Special Options</p> <p>0 = None 1 = Polyester Powder Coated 2 = Stainless Steel Housing & Mounting 3 = Autocatalytically Nickel Infused (ANI) housing 4 = Special Bracketing -TUMB2</p>		

Notes:

- 1 – Bracket only part numbers do not allow any other options (must be Z000); available for Ball Valves only.
- 2 – Operating pressures (1-2-3) apply to Ball valve actuators.
- 3 – Basic Manual Override is standard on all Ball Valves and Butterfly Valves with Declutchable Manual Override as an option. Standard Gate Valve package has no override with Basic Manual Override or Declutchable Manual Override as an option. Standard Diaphragm Valve package has no override. No manual override option sizes 1/2" - 2". Basic Manual Override is an option on valve sizes 2-1/2" & larger that are equipped with Air-to-Air and Air-to-Spring Closed.

Actuator Only Part Numbers

Individual Premium Pneumatic actuators can be ordered for specific Spears® valve types and sizes. Includes actuator and mounting hardware for specified valve type and size. To specify valve type for actuator only, enter the first digit valve type code followed by zeros ("0") for remaining 4-digits of the valve code section of the part number plus the applicable 3-digit valve size code (see valve selection Tables 1, 2, or 3). Complete the actuator code selection as described in this section. See Step 3 for any desired actuator accessories.

Example: An 80 psi, air-to-air pneumatic actuator only with declutchable manual override for 2" standard Butterfly Valve would have the following part number: 40000H102-020.

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Step 3: Actuator Accessory Selection

Premium actuator accessories are available for both Electric actuators (Selection Table 7) and Pneumatic actuators (Selection Table 8 and 9). Actuator accessory options are selected and ordered separately as individual Accessory part numbers for the actuated valve. If accessory options are to be ordered, be sure the suffix, “-A”, was added to the end of the selected Actuated Valve Package part number configured in Step 1 & 2 to designate that the accessories are assembled with the valve package.

A separate part number is used for *each* accessory ordered. Select the desired Accessory Part Number from the selection tables for each accessory.

Example: An electric actuated valve is desired with a heater and thermostat, an SPDT limit switch set and a 0-5 VDC signal positioner board. From Table 7, the following Accessory part numbers should be ordered with the actuated valve package:

Heater & Thermostat = **A-H1**
 Limit Switch Set = **A-LS1**
 Positioner Board = **A-PB2**

Contact Spears® for any desired accessories or functions not specified in the Accessory Selection Tables

Selection Table 7: Premium Electric Actuator Accessories

Accessory	Description	Accessory Part Number
Heater	Heater & Thermostat - On @ 41°F, Off @ 60.8°F	A-H1
	Heater & Thermostat - On @ 62.6°F, Off @ 80.6°F	A-H2
Auxiliary Limit Switches	2-SPDT Limit Switch Set (1/2" shaft cam)	A-LS1
	2-SPDT Limit Switch Set (3/8" shaft cam ³)	A-LS2
	2-SPDT Limit Switch Set for Electric Spring Return	A-LS3
Position Indicators	LED Indicator Lights	A-P2
Modulating Positioner Boards	115 VAC 4-20mA	A-PB1
	115 VAC 0-5 VDC	A-PB2
	115 VAC 0-10 VDC	A-PB3
	230 VAC 4-20mA	A-PB4
	230 VAC 0-5 VDC	A-PB5
	230 VAC 0-10 VDC	A-PB6
	24 VAC 4-20mA	A-PB7
	24 VAC 0-5 VDC	A-PB8
	24 VAC 0-10 VDC	A-PB9
	24 VDC 4-20mA	A-PB10
	24 VDC 0-5 VDC	A-PB11
	24 VDC 0-10 VDC	A-PB12
		115 VAC 4-20mA For Electric Spring Return Actuator
Transmitter	4-20mA	A-T1
Torque Sensor	Adjustable Electronic Torque Sensor	A-TS1
Speed Controller	Variable Speed Controller	A-SC1
2"-Wire Control ¹ (operates as solenoid valve)	Control Relay Switch Setup 115 VAC - Normally Closed	A-CR1
	Control Relay Switch Setup 115 VAC - Normally Open	A-CR2
	Control Relay Switch Setup 24 VAC - Normally Closed	A-CR3
	Control Relay Switch Setup 24 VAC - Normally Open	A-CR4
	Control Relay Switch Setup 230 VAC - Normally Closed	A-CR5
	Control Relay Switch Setup 230 VAC - Normally Open	A-CR6
	Control Relay Switch Setup 12 VDC - Normally Closed	A-CR7
	Control Relay Switch Setup 12 VDC - Normally Open	A-CR8
	Control Relay Switch Setup 12 VDC - Normally Closed	A-CR9
	Control Relay Switch Setup 12 VDC - Normally Open	A-CR10

(CONTINUED NEXT PAGE)



Appendix B - Premium Actuated Valve Part Number Selection

(Selection Table 7: Premium Electric Actuator Accessories - CONTINUED)

Accessory	Description	Accessory Part Number
Friction Brake ²	Mechanical Brake	A-FB1
Lockout Switch	Power disconnect switch activated when n manual override is in use	A-LK1
Remote/Off/Local Control Switch	Remote/off/local, open/close momentary contact push buttons, red (close) and green (open) position indicating lights	A-RS1
Special Hardware	Titanium Bolts	A-B1
ID Tag	Type 316 Stainless Steel ID Tag 1/2" x 3" (3-lines, 12-characters & spaces)	TAG3-015
Stem Extension	Ball Valve Stem Extension ⁴	A-BVSE-XXX-000
	True Union 2000 Ball Valve Stem Extension	A-BVSE2-XXX-000
	Butterfly Valve Stem Extension	A-BFSE-XXX-000
	Diaphragm Valve Stem Extension	A-DESE-XXX-000

Notes:

1 - "2-Wire" Control is not applicable to Diaphragm Valves

2 - Friction Brake is standard on Butterfly Valves and not applicable to Diaphragm Valves

3 - The A-LS2 is used on 1/2" - 2" basic Ball Valve packages; A-LS1 used on all others.

4 - Stem Extension Part Numbers: Enter size code for "xxx" in part number. Replace "000" with desired length code in part number; length is from top of valve to bottom of actuator.

Selection Table 8: Ball Valve & Butterfly Valve Premium Pneumatic Actuator Accessories

Accessory	Description			Accessory Part Number
PNEUMATIC POSITIONERS	3-15 psi	NEMA 4	Flat-Top Indicator	A-PP1
	3-15 psi	NEMA 4	Dome Indicator	A-PP2
	3-15 psi	NEMA 4	Dome Indicator, Integrated 2-SPDT Mech. Switches	A-PP3
ELECTRO PNEUMATIC POSITIONERS WITH INDICATOR	4-20mA	NEMA 4	Flat-Top Indicator	A-EP1
	4-20mA	NEMA 4	Dome Indicator	A-EP2
	4-20mA	NEMA 4	Dome Indicator, Integrated 2-SPDT Mech. Switches	A-EP3
	4-20mA	NEMA 7	Flat-Top Indicator	A-EP4
	4-20mA		Intrinsically Safe (CSA/UL) Flat-Top Indicator	A-EP5
	4-20mA	NEMA 7	Dome Indicator	A-EP6
	4-20mA		Intrinsically Safe w/2-SPST Proximity Switches	A-EP22
SOLENOID VALVES	3 & 4-way	115 VAC	NEMA 4/4x	A-SV1
	3 & 4-way	230 VAC	NEMA 4/4x	A-SV2
	3 & 4-way	24 VAC	NEMA 4/4x	A-SV3
	3 & 4-way	12 VDC	NEMA 4/4x	A-SV4
	3 & 4-way	24 VDC	NEMA 4/4x	A-SV5
	3 & 4-way	115 VAC	NEMA 4/4x/7/9	A-SV6
	3 & 4-way	230 VAC	NEMA 4/4x/7/9	A-SV7
	3 & 4-way	24 VAC	NEMA 4/4x/7/9	A-SV8
	3 & 4-way	12 VDC	NEMA 4/4x/7/9	A-SV9
	3 & 4-way	24 VDC	NEMA 4/4x/7/9	A-SV10
	Dual Power 3 & 4-way	115 VAC	NEMA 4/4x	A-SV11
	Dual Power 3 & 4-way	230 VAC	NEMA 4/4x	A-SV12
	Dual Power 3 & 4-way	24 VAC	NEMA 4/4x	A-SV13
	Dual Power 3 & 4-way	12 VDC	NEMA 4/4x	A-SV14
	Dual Power 3 & 4-way	24 VDC	NEMA 4/4x	A-SV15
	Dual Power 3 & 4-way	115 VAC	NEMA 7/9	A-SV16
	Dual Power 3 & 4-way	230 VAC	NEMA 7/9	A-SV17
	Dual Power 3 & 4-way	24 VAC	NEMA 7/9	A-SV18
	Dual Power 3 & 4-way	12 VDC	NEMA 7/9	A-SV19
	Dual Power 3 & 4-way	24 VDC	NEMA 7/9	A-SV20
	Stainless Steel 3 & 4-way	115 VAC	NEMA 4/4x	A-SV21
	3-Way 24 VDC Hi Temperature (Class H)		NEMA 4x	A-SV22
3 & 4-way	230 VAC	NEMA 4/4x 1/2" NPT Din Connector	A-LS25	

Note: Pneumatic and Electro-Pneumatic positioners include brass gauges: 1 input gauge @ 0-30 psi and 2 output gauges @ 0-160 psi. Stainless steel gauges may be ordered separately.

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(Table 8: Ball Valve & Butterfly Valve Premium Pneumatic Actuator Accessories - continued)

Accessory	Description	Accessory Part Number
LIMIT SWITCH & TRANSMITTER COMBINATION	4-20mA 2-SPDT NEMA 4/4x/7/9	A-LS20
	4-20mA 2-SPDT NEMA 4/4x/7/9 w/ Visual Indicator	A-LS21
	4-20mA 2-DPDT NEMA 4/4x/7/9	A-LS22
	4-20mA 2-DPDT NEMA 4/4x/7/9 w/ Visual Indicator	A-LS23
	4-20mA 2-Proximity NEMA 4/4x/7/9	A-LS24
	4-20mA 2-Proximity NEMA 4/4x/7/9 w/ Visual Indicator	A-LS25
LIMIT SWITCHES	2-SPDT NEMA 4/4x	A-LS40
	2-SPDT NEMA 4/4x w/ Visual Indicator	A-LS41
	2-SPDT NEMA 4/4x w/ Green/Red Dome Indicator	A-LS41D
	2-SPDT NEMA 4/4x w/ Low Profile Indicator	A-LS41L
	2-DPDT NEMA 4/4x	A-LS42
	2-DPDT NEMA 4/4x w/ Visual Indicator	A-LS43
	2-Proximity NEMA 4/4x	A-LS44
	2-Proximity NEMA 4/4x w/Low Profile Indicator	A-LS44L
	2-Proximity NEMA 4/4x w/ Visual Indicator	A-LS45
	2-Proximity NEMA 7/9	A-LS46
	2-Proximity NEMA 7/9 w/ Visual Indicator	A-LS47
	2-Proximity NEMA 7/9 w/ Low Profile Indicator	A-LS47L
	2-SPDT NEMA 4/4x/7/9	A-LS48
	2-SPDT NEMA 4/4x/7/9 w/ Visual Indicator	A-LS49
	2-DPDT NEMA 4/4x/7/9	A-LS50
	2-DPDT NEMA 4/4x/7/9 w/ Visual Indicator	A-LS51
4-SPDT NEMA 4/4x w/180° Indicator	A-LS52	
INDICATORS	Dome Indicator	A-V2
TRANSMITTER	4-20mA Output Transmitter	A-PT1
PRESSURE GAUGE SET	Stainless steel case, 3-gauge set for use with positioners: 1 - input pressure gauge 0-30 psi, 2 output gauges 0-160 psi	A-G1
	Plastic case, 3-gauge set for use with positioners: 1 - input pressure gauge 0-30 psi, 2 output gauges 0-160 psi	A-G2
AIR MUFFLERS	Standard Sintered Bronze, 40 Micron 1/8" NPT	A-M18
	Standard Sintered Bronze, 40 Micron 1/4" NPT	A-M14
	Speed Control Muffler (Adjustable Air Flow) 1/8" NPT	A-M2V18
	Speed Control Muffler (Adjustable Air Flow) 1/4" NPT	A-M2V14
ID TAG	Type 316 Stainless Steel ID Tag 1/2" x 3" (3-lines, 12-characters & spaces)	TAG3-015
Stem Extensions	Ball Valve Stem Extension ¹	A-BVSE-xxx-000
	True Union 2000 Ball Valve Stem Extension ¹	A-BVSE2-xxx-000
	Butterfly Valve Stem Extension ¹	A-BFSE-xxx-000

Notes:

1 – Stem Extension Part Numbers: Enter size code for “xxx” in part number. Replace “000” with the desired length code in part number; length is from top of valve to bottom of actuator.



Appendix B - Premium Actuated Valve Part Number Selection

Table 9: Diaphragm Valve Premium Pneumatic Actuator Accessories

Accessory	Description			Accessory Part Number
PNEUMATIC POSITIONERS	3-15 psi	NEMA 4x	w/Visual Indicator Top Loading (no gauge)	A-DPP1
	3-15 psi	NEMA 4 x	w/Visual Indicator Top Loading w/gauges (3)	A-DPP2
	3-15 psi	NEMA 4 x	w/Visual Indicator Bottom Loading (no gauge)	A-DPP3
	3-15 psi	NEMA 4 x	w/Visual Indicator Bottom Loading w/gauges (3)	A-DPP4
ELECTRO PNEUMATIC POSITIONERS	4-20 mA	(3-15 psi) NEMA 4 x	w/Visual Indicator (up to 2")	A-DEP1
	4-20 mA	(3-15 psi) NEMA 4 x	w/Visual Indicator w/SS Gauges (up to 2")	A-DEP2
	4-20 mA	(3-15 psi) NEMA 4 x	w/Visual Indicator (2-1/2" & up)	A-DEP3
	4-20 mA	(3-15 psi) NEMA 4 x	w/Visual Indicator w/SS Gauges (2-1/2" & up)	A-DEP4
	4-20mA	(3-15 psi) NEMA 4 x	w/Dome Indicator w/2-SPDT Limited Switches (2-1/2" & up)	A-DEP5
3-WAY SOLENOID VALVES	115 VAC	NEMA 4/4x		A-DSV1
	230 VAC	NEMA 4/4x		A-DSV2
	24 VAC	NEMA 4/4x		A-DSV3
	12 VDC	NEMA 4/4x		A-DSV4
	24 VDC	NEMA 4/4x		A-DSV5
	115 VAC	NEMA 4/4x/7/9		A-DSV6
	230 VAC	NEMA 4/4x/7/9		A-DSV7
	24 VAC	NEMA 4/4x/7/9		A-DSV8
	12 VDC	NEMA 4/4x/7/9		A-DSV9
	24 VDC	NEMA 4/4x/7/9		A-DSV10
4-WAY SOLENOID VALVES	115 VAC	NEMA 4/4x		A-DSV11
	230 VAC	NEMA 4/4x		A-DSV12
	24 VAC	NEMA 4/4x		A-DSV13
	12 VDC	NEMA 4/4x		A-DSV14
	24 VDC	NEMA 4/4x		A-DSV15
	115 VAC	NEMA 4/4x/7/9		A-DSV16
	230 VAC	NEMA 4/4x/7/9		A-DSV17
	24 VAC	NEMA 4/4x/7/9		A-DSV18
	12 VDC	NEMA 4/4x/7/9		A-DSV19
	24 VDC	NEMA 4/4x/7/9		A-DSV20
MICRO ² LIMIT SWITCHES	2-SPDT	NEMA 4	w/180° Visual Indicator	A-DLS20
	2-SPDT	NEMA 7/9	w/180° Visual Indicator	A-DLS25
PROXIMITY LIMIT SWITCHES	2-SPDT	NEMA 4/4X		A-DLS23
LIMIT SWITCHES ³	2-SPDT	NEMA 4		A-DLS24
SPEED CONTROLLER	Variable Speed Controller			A-DPSC1
ID TAG	Type 316 Stainless Steel ID Tag 1/2" x 3" (3-lines, 12-characters & spaces)			TAG3-015
Stem Extensions	Diaphragm Valve Stem Extension ¹			A-DPSE-xxx-000
HANDWHEEL OVERRIDE	Handwheel override for 1/2" to 2" Linear Diaphragm Actuators			A-DHW1
	Handwheel override for 2-1/2" to 6" Linear Diaphragm Actuators			A-DHW2

Notes: 1 – Stem Extension Part Numbers: Enter size code for “xxx” in part number. Replace “000” with the desired length code in part number; length is from top of valve to bottom of actuator.
 2 – Micro Limit Switches used on valve sizes 1/2" through 2".
 3 – Limit Switches are used on valve sizes 2-1/2" & Larger