

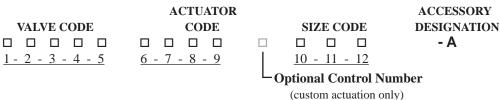
The section is provided for formulation of part numbers on custom actuated valve packages. A 3-step process is used to build custom actuated valve part numbers:

- Step 1 Select the desired type, style, options and material of <u>valve</u> 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

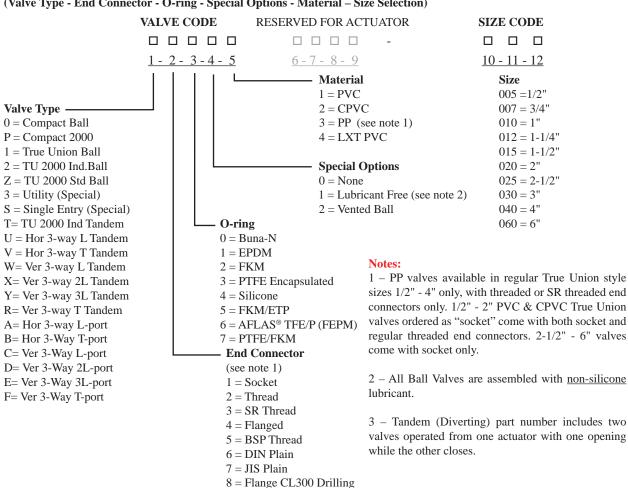


## Step 1: Valve & Size Code Selection

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.

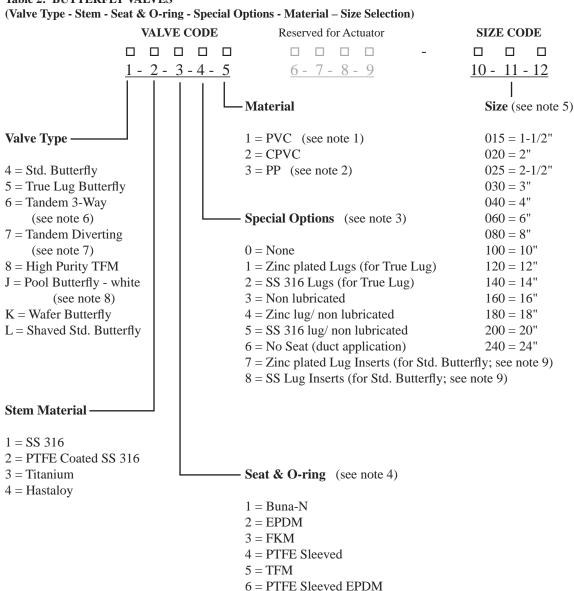
Table 1: BALL VALVES

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





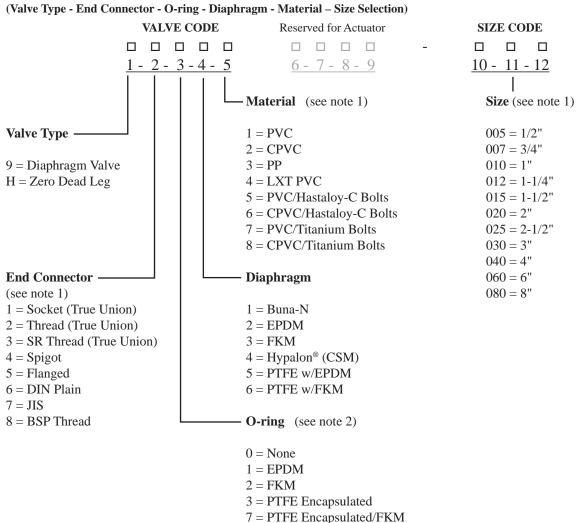
## **Table 2: BUTTERFLY VALVES**



- 1 PVC and CPVC valves available through 14" only.
- 2 All PP and 14" PVC/CPVC valves available in Standard Butterfly style only.
- 3 Lugs specified with True Lug and Lug Insert styles only.
- 4 PP valves are standard with EPDM or FKM.
- 5 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.
- 9 Lug Inserts are used when Lug Style valve is ordered for Tandem Diverting valve type.



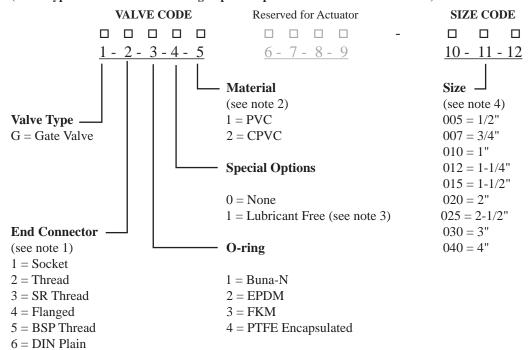
**Table 3: DIAPHRAGM VALVES** 



- 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.



Table 3A: GATE VALVES (Special Order Only - Contact Spears® for Availability) (Valve Type - End Connector - O-ring - Special Options - Material – Size Selection)



- 1 SR thread style available on 3" & 4" size only. Din Plain metric available in 20 mm - 63 mm only.
- 2 PVC valves have polypropylene gate wedge, CPVC valves have CPVC gate wedge.
- 3 Standard valves are assembled with <u>non-silicone</u> lubricant.
- 4 Valve size 2-1/2" is 3" valve with 2-1/2" reducer bushing.



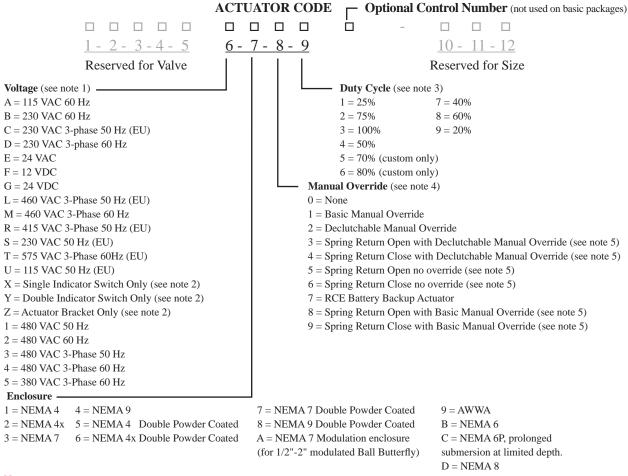
#### **Step 2: Actuator Code Selection**

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)



# 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. <u>Standard Duty Cycles can be upgraded</u> only. Note: 50% duty cycle available on non-standard, special order actuators only.

Valve Type	Size Range	25% Duty Cycle	75% Duty Cycle	100% 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		

<sup>4 –</sup> 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.

<sup>5 –</sup> 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.



### **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

## Optional Control Numbers (custom use) – Electric Actuators

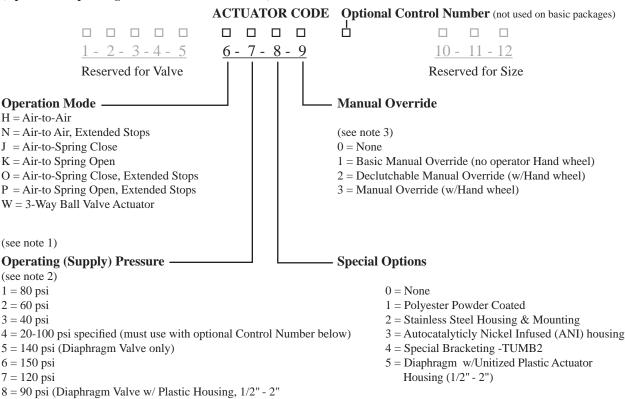
- 1 = AUMA SA07.5-19A/ AUMA-115 Actuator w/remote pilot station
- 2 = Rotork AQM105 Actuator
- 3 = RCE15-5-4-1-15 Remote Control Station w/24 VAC Battery Back-up
- 4 = RCE10-4-1-5-15 Remote Control Station w/24 VDC Battery Back-up
- 5 = Oversize Housing
- 6 = AUMA SG05.1 Actuator
- 7 = AUMA SG05.1-2 Actuator
- B = AUMA SG05.1-3 460VAC 3-phase Actuator, indicator lights, 4-20mA positioner, NEMA 4x
- 8 = AUMA SA07.1-26B Actuator
- H = AUMA SAO7.5-38A 115 VAC Single Phase Actuator, (2) Gear Train Limit Switches, Open / Close Torque Switches, Space Heater, Plug & Socket type terminals, Side Mounted hand wheel, Nema 4x enclosure, Reversing starters, Power Supply board, Interface Board 110 VAC, 3 Push buttons O/S/C, Selector Switch L/O/R, 3 Lights open / fault / close
- 9 = Actuator Upsize (one size to accommodate accessories)
- A = EIM Controls P2N1-3 (460 VA 3-phase Actuator)
- $C = SURE\ 25\text{-}10,\ 115\ VAC\ Actuator,\ Spring\ return\ close,\ w/\ modulating\ 4\text{-}20\ mA\ positioner\ board$
- D = AUMA SAR07.5-13B/GS63.3, 5000 in.-lb., 460 VAC 3-Phase 60HZ Actuator, indicator lights, 4-20mA positioner, NEMA4x.
- E = AUMA SG07.1, 2640 in.-lb., 120VAC Actuator, NEMA 4x/6
- F = RCE-40-410-4-115, 115 VAC actuator w/ battery backup
- G = Valvcon # IW150HS2DNZN115A. 1-1/2", w/ heater/thermostat, 2 aux limit switches, Device Net card, declutchable manual override, 115VAC
- J = RCE 15-5-4-15, 150 in. lb., 115VAC, 5 sec. cycle, 100% duty rating, NEMA 4x/7/9 enclosure, w/battery backup
- X = Actuator assembled with Double Containment Valve & Valve Box (for use in "actuator only" part number)

Note: When control number is used on a package with accessories, the dash ( - ) is dropped before the "A" due to part number limitations.



#### **Table 5: PNEUMATIC ACTUATOR**

(Operation - Operating Pressure - Manual Override)



#### 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 Diaphragm Valve package has no override. No manual override option sizes 1/2" 2". Declutchable Manual Override are an option on valve sizes 2-1/2" & larger that are equipped with Air-to-Air and Air-to-Spring Closed or Open.

## **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.

## **Optional Control Numbers (custom use) – Pneumatic Actuators**

- 1 = Downsized actuator for vacuum application.
- 2 = Habonin brand pneumatic actuator
- 3 = Customer Requested Upsized Actuator (one size larger than standard)
- 4 =Saunders 602-1/2 actuator
- X = Actuator assembled with Double Containment Valve & Valve Box (for use in "actuator only" part number)

Control Numbers for user specified pressure. Must be used with Operating (Supply) Pressure code 7, #4:

A = 20 psi D = 50 psi G = 80 psi B = 30 psi E = 60 psi H = 90 psiC = 40 psi F = 70 psi J = 100 psi

Note: When control number is used on a package with accessories, the dash (-) is dropped before the "A" due to part number limitations.



## **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 <u>each</u> 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 & Thermostat - On @ 41°F, Off @ 60.8°F	A-H1
	Heater & Thermostat - On @ 62.6°F, Off @ 80.6°F	A-H2
Heater	Heater & Thermostat - On @ 69.8°F, Off @ 89.6°F	А-Н3
	120/220 VAC - Self Regulating	A-H4
	2-SPDT Limit Switch Set (1/2" shaft cam)	A-LS1
Auxiliary Limit Switches	2-SPDT Limit Switch Set (3/8" shaft cam <sup>3</sup> )	A-LS2
	2-SPDT Limit Switch Set for Electric Spring Return	A-LS3
Position Indicators	LED Indicator Lights	A-P2
	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
Modulating	230 VAC 0-10 VDC	A-PB6
Positioner	24 VAC 4-20mA	A-PB7
Boards	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	A-PB13
Transmitter	4-20mA	A-T1
Torque Sensor	Adjustable Electronic Torque Sensor	A-TS1
Speed Controller	Variable Speed Controller	A-SC1
	Control Relay Switch Setup 115 VAC - Normally Closed	A-CR1
	Control Relay Switch Setup 115 VAC - NormallyOpen	A-CR2
	Control Relay Switch Setup 24 VAC - Normally Closed	A-CR3
	Control Relay Switch Setup 24 VAC - Normally Open	A-CR4
2"-Wire Control <sup>1</sup>	Control Relay Switch Setup 230 VAC - Normally Closed	A-CR5
operates as solenoid valve)	Control Relay Switch Setup 230 VAC - NormallyOpen	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

#### 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.

## (CONTINUED NEXT PAGE)



# (Selection Table 7: Premium Electric Actuator Accessories - Continued)

Accessory	Description	Accessory Part Number
Friction Brake <sup>2</sup>	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 <sup>4</sup>	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

#### Note

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

Accessory		De	escription	Accessory Part Number
	3-15 psi	NEMA 4	Flat-Top Indicator	A-PP1
PNEUMATIC POSITIONERS	3-15 psi	NEMA 4	Dome Indicator	A-PP2
	3-15 psi	NEMA 4	Dome Indicator, Integrated 2-SPDT Mech. Switches	A-PP3
	3-15 psi	NEMA 4x	Dome Indicator, 2-SPDT Switches, 4-20 Transmitter	A-PP4
ELECTRO PNEUMATIC	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
POSITIONERS	4-20mA	NEMA 7	Flat-Top Indicator	A-EP4
WITH	4-20mA	Intrinsically Saf	e (CSA/UL) Flat-Top Indicator	A-EP5
INDICATOR	4-20mA	NEMA 7	Dome Indicator	A-EP6
	4-20mA	Intrinsically Saf	e w/2-SPST Proximity Switches	A-EP22
	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	7/9	A-SV6
	3 & 4-way	230 VAC	7/9	A-SV7
	3 & 4-way	24 VAC	7/9	A-SV8
	3 & 4-way	12 VDC	7/9	A-SV9
	3 & 4-way	24 VDC	7/9	A-SV10
SOLENOID	Dual Coil 3 & 4-way	115 VAC	NEMA 4/4x	A-SV11
VALVES	Dual Coil 3 & 4-way	230 VAC	NEMA 4/4x	A-SV12
VALVES	Dual Coil 3 & 4-way	24 VAC	NEMA 4/4x	A-SV13
	Dual Coil 3 & 4-way	12 VDC	NEMA 4/4x	A-SV14
	Dual Coil 3 & 4-way	24 VDC	NEMA 4/4x	A-SV15
	Dual Coil 3 & 4-way	115 VAC	NEMA 7/9	A-SV16
	Dual Coil 3 & 4-way	230 VAC	NEMA 7/9	A-SV17
	Dual Coil 3 & 4-way	24 VAC	NEMA 7/9	A-SV18
	Dual Coil 3 & 4-way	12 VDC	NEMA 7/9	A-SV19
	Dual Coil 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 Temp	erature (Class H)	NEMA 4x	A-SV22
	3 & 4-way	230 VAC	NEMA 4/4x 1/2" NPT Din Connector	A-SV23

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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<sup>4 -</sup> 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.



(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
	2-SPDT	NEMA 4/4x Flat Top	A-LS40
	2-SPDT	NEMA 4/4x w/ Visual Indicator (requires user supplied intrinsic barrier)	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 Flat Top	A-LS44
LIMIT	2-Proximity	NEMA 4/4x w/Low Profile Indicator (source power requires intrinsic safety barrier or amplifier)	A-LS44L
SWITCHES	2-Proximity	NEMA 4/4x w/ Visual Indicator	A-LS45
	2-Proximity	NEMA 7/9 Flat Top	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 Flat Top	A-LS48
	2-SPDT	NEMA 4/4x/7/9 w/ Visual Indicator	A-LS49
	2-DPDT	NEMA 4/4x/7/9 Flat Top	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		-gauge set for use with positioners: ge 0-30 psi, 2 output gauges 0-160 psi	A-G1
		set for use with positioners: ge 0-30 psi, 2 output gauges 0-160 psi	A-G2
AIR MUFFLERS	Standard Sintered Bro	onze, 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	<u> </u>	eel ID Tag 1/2" x 3" (3-lines, 12-characters & spaces)	TAG3-015
		Ball Valve Stem Extension <sup>1</sup>	A-BVSE-xxx-000
Stem Extensions		True Union 2000 Ball Valve Stem Extension <sup>1</sup>	A-BVSE2-xxx-000
		Butterfly Valve Stem Extension <sup>1</sup>	A-BFSE-xxx-000

<sup>1 –</sup> 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.



**Table 9: Diaphragm Valve Premium Pneumatic Actuator Accessories** 

Accessory	Description	Accessory Part Number
	3-15 psi NEMA 4x w/Visual Indicator Top Loading (no gauge)	A-DPP1
PNEUMATIC	3-15 psi NEMA 4 x w/Visual Indicator Top Loading w/gauges (3)	A-DPP2
POSITIONERS	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
	4-20 mA (3-15 psi) NEMA 4 x w/Visual Indicator (up to 2")	A-DEP1
EL ECEP O	4-20 mA (3-15 psi) NEMA 4 x w/Visual Indicator w/SS Gauges (up to 2")	A-DEP2
ELECTRO PNEUMATIC	4-20 mA (3-15 psi) NEMA 4 x w/Visual Indicator (2-1/2" & up)	A-DEP3
POSITIONERS	4-20 mA (3-15 psi) NEMA 4 x w/Visual Indicator w/SS Gauges (2-1/2" & up)	A-DEP4
1 0011101 (2110	4-20mA (3-15 psi) NEMA 4 x w/Dome Indicator w/2-SPDT Limited Switches (2-1/2" & up)	A-DEP5
	115 VAC NEMA 4/4x	A-DSV1
	230 VAC NEMA 4/4x	A-DSV2
3-WAY	24 VAC NEMA 4/4x	A-DSV3
3- WA1	12 VDC NEMA 4/4x	A-DSV4
GOL ENOID	24 VDC NEMA 4/4x	A-DSV5
SOLENOID	115 VAC NEMA 7/9	A-DSV6
	230 VAC NEMA 7/9	A-DSV7
VALVES	24 VAC NEMA 7/9	A-DSV8
	12 VDC NEMA 7/9	A-DSV9
	24 VDC NEMA 7/9	A-DSV10
	115 VAC NEMA 4/4x	A-DSV11
	230 VAC NEMA 4/4x	A-DSV12
4-WAY	24 VAC NEMA 4/4x	A-DSV13
7-WA1	12 VDC NEMA 4/4x	A-DSV14
COL ENOID	24 VDC NEMA 4/4x	A-DSV15
SOLENOID	115 VAC NEMA 7/9	A-DSV16
*********	230 VAC NEMA 7/9	A-DSV17
VALVES	24 VAC NEMA 7/9	A-DSV18
	12 VDC NEMA 7/9	A-DSV19
	24 VDC NEMA 7/9	A-DSV20
MICRO <sup>2</sup> LIMIT	2-SPDT NEMA 4 w/180°Visual Indicator	A-DLS20
SWITCHES	2-SPDT NEMA 7/9 w/180°Visual Indicator	A-DLS25
PROXIMITY LIMIT SWITCHES	2-SPDT NEMA 4/4X	A-DLS23
LIMIT SWITCHES <sup>3</sup>	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 <sup>1</sup>	A-DPSE-xxx-000
HANDWHEEL OVERRIDE	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.

<sup>2 –</sup> Micro Limit Switches used on valve sizes 1/2" through 2".

<sup>3 –</sup> Limit Switches are used on valve sizes 2-1/2" & Larger