

Premium Actuated Valve Part Number Selection



ENGINEERING GUIDE

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Premium Actuated Valve Part Number Selection



Revised: 12-20-2022

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.

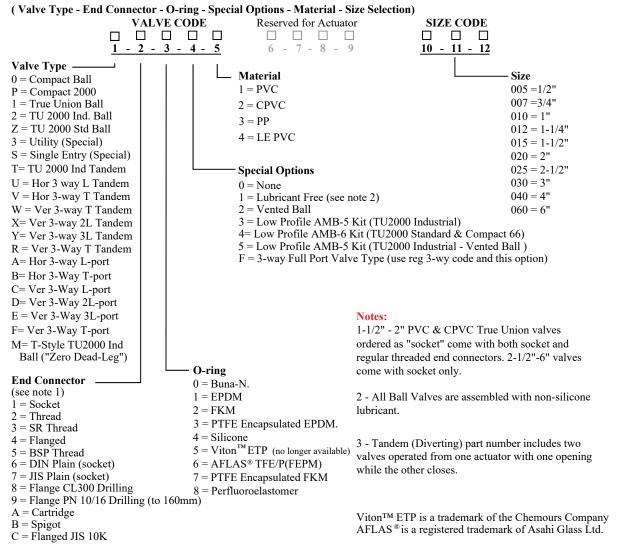
IMPORTANT: Custom accessories are ordered under a separate part number from the actuated Valve Package. Accessory part numbers are ordered individually and factory assembled with selected Actuated Valve Package. If any accessories are being ordered, add the suffix, "- A " to the end of the Actuated Valve 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 V	ALVE PACKAGE PART N	UMBER POSITIONS	ACCESSORY OR
VALVE CODE	ACTUATOR CODE	SIZE CODE	CUSTOMER DESIGNATION
□ □ □ □ □ □ □ <u>1 - 2 - 3 - 4 - 5</u>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	□ □ □ 10 - 11 - 12	-A Accessory (ies) -G Coast Guard
Size Code Selection	_ (ı	Optional Control Number not used on basic packages	r -F Coast Guard with accessory (ies)

Step 1: Valve & Size Code Selection

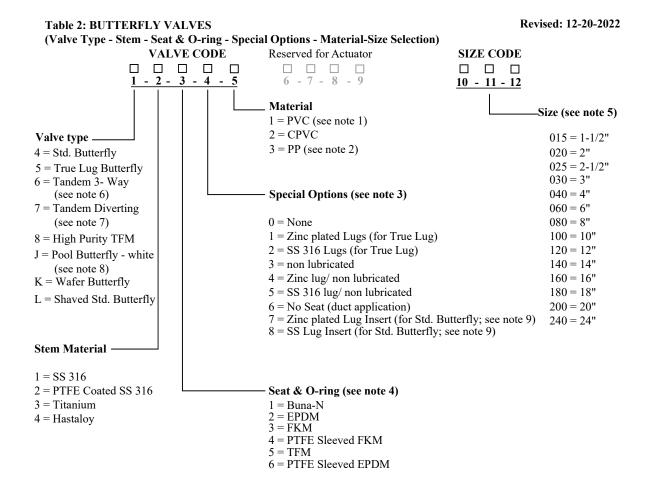
Spears actuated valve selection table include Ball Valves (Selection Table 1) Butterfly Valves (Selection Table 2), Diaphragm Valves (Selection Table 3) and Gate Valves (Selection Table 3A). Use the table information to complete the Valve Code in the package part number.

Table 1: BALL VALVES





Butterfly Valve Selection



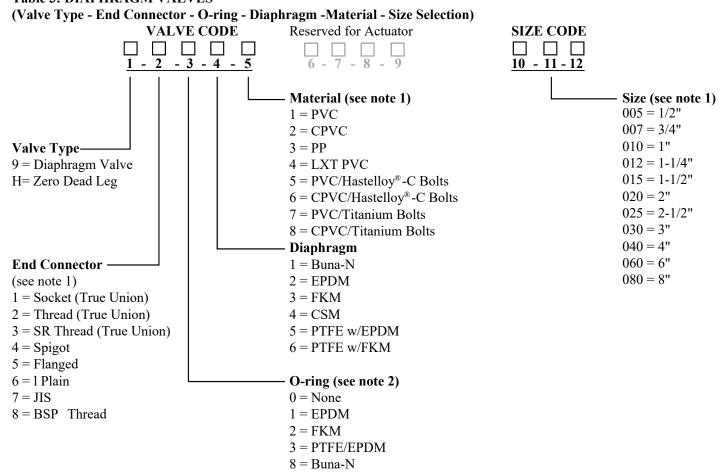
Notes

- 1 PVC and CPVC valves available through 16" only.
- 2 All PP and 16" 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.

Diaphragm Valve Selection



Table 3: DIAPHRAGM VALVES



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.

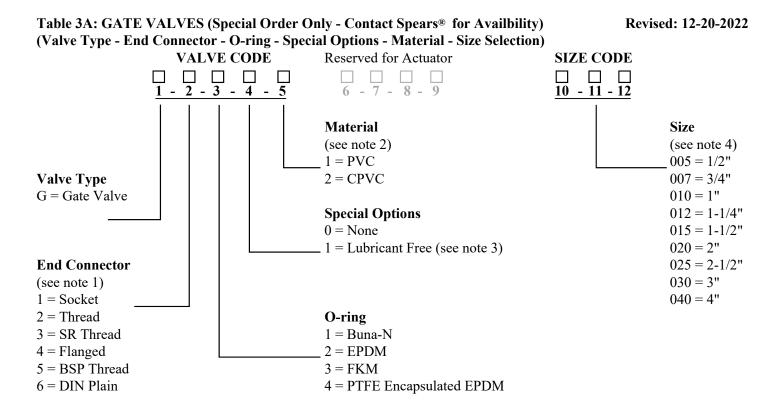
Zero Dead Leg valves are Socket Tee x selected End Connector code.

2 - O-rings are use on True Union style valves sizes 1/2" - 2" with socket, thread, or SR thread end connectors only. Enter "0" for all other end connector selections.

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Gate Valves Selection (special order)



Notes:

- 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 non-silicone lubricant.
- 4 Valve size 2-1/2" is 3" valve with 2-1/2" reducer bushings.

Electric Actuator Selection

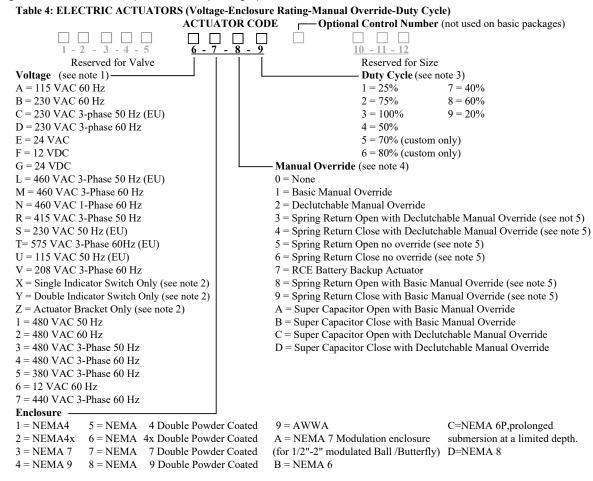


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Step 2: Actuator Code Selection

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.



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</u> 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	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		

- 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.



Actuator Only Selection

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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.

Optional Control Numbers (custom use) - Electric Actuators

- 5 = Oversize Housing
- 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)
- K = Custom 2-position Actuator on 3-Way Ball Valve
- N = 180 degree re-configured actuator (used for electric actuators only)
- X = Actuator assembled with Double Containment Valve & Valve Box (for use in "actuator only" part number)

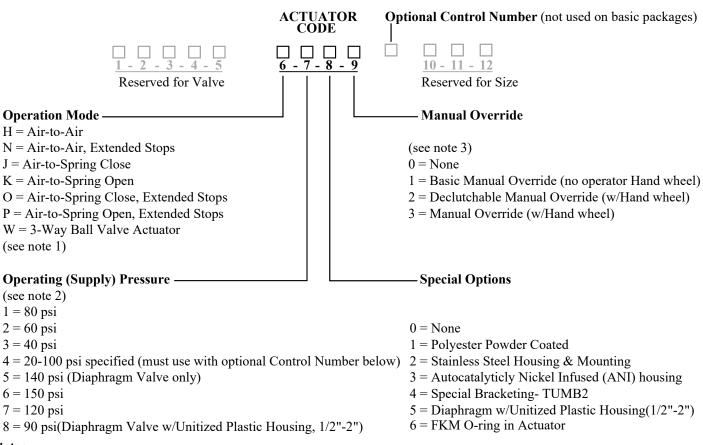
Note: When control number is used on a package with accessories, the dash (-) is dropped before the "A" due to part number limitations.

Pneumatic Actuator Selection



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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 is an option on valve sizes 2-1/2" & larger.

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

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 psi C = 40 psi F = 70 psi J = 100 psi

K = Custom 2-position Actuator 3-Way Ball Valve used only in electric actuators not pneumatic

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

Made in the U.S.A.

Suitable for Oil-Free air handling to 25 psi, not for distribution of compressed air or gas



Actuator Accessories Selection- Call for Application Detail

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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, <u>be sure</u> 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.

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

Accessory	Description	Accessory Part Number
Haataa	Heater & Thermostat - On @ 41° F, Off @ 60.8°F	A-H1
Heater	Heater & Thermostat - On @ 62.6°F, Off @ 80.6°F	A-H2
	2-SPDT Limit Switch Set (1/2" shaft cam)	A-LS1
Auxiliary Limit Switches	2-SPDT Limit Switch Set (3/8" shaft cam3)	A-LS2
	2-SPDT Limit Switch Set for Electric Spring Return	A-LS3
Position Indicators	LED Indicator Lights	A-P2
	115 VAC 4-20 mA	A-PB1
	115 VAC 0-5 VDC	A-PB2
	115 VAC 0-10 VDC	A-PB3
	230 VAC 4-20 mA	A-PB4
	230 VAC 0-5 VDC	A-PB5
Modulating	230 VAC 0-10 VDC	A-PB6
Positioner	24 VAC 4-20 mA	A-PB7
Boards	24 VAC 0-5 VDC	A-PB8
	24 VAC 0-10 VDC	A-PB9
	24 VDC 4-20 mA	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 Sensors	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- Normally Open	A-CR2
	Control Relay Switch Setup 24 VAC- Normally Closed	A-CR3
	Control Relay Switch Setup 24 VAC- Normally Open	A-CR4
"2 \Mira" Control1(onorates as aslamaid ustra)	Control Relay Switch Setup 230 VAC- Normally Closed	A-CR5
"2-Wire" Control ¹ (operates as solenoid valve)	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 24 VDC- Normally Closed	A-CR9
	Control Relay Switch Setup 24 VDC- Normally Open	A-CR10
Friction Brake ²	Mechanical Brake	A-FB1
Lockout Switch	Power disconnect switch activated when manual override is in use	A-LK1

Note

- 1 "2-Wire" Control is not applicable to Diaphragm Valves
- 2 Friction Brake are standard on Butterfly Valve 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 other.

Actuator Accessories Selection- Call for Application Detail



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

Accessory	Description	Accessory Part Number
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
	Ball Valve Stem Extension ⁴	A-BVSE-xxx-000
Stem Extension	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

^{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
DNEUMATIO	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
	4-20mA	NEMA 4	Flat-Top Indicator	A-EP1
	4-20mA	NEMA 4	Dome Indicator	A-EP2
ELECTRO	4-20 mA	NEMA 4	Dome Indicator Integrated 2-SPDT Mech. Switches	A-EP3
PNEUMATIC	4-20mA	NEMA 7	Flat-Top Indicator	A-EP4
POSITIONERS WITH INDICATOR	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	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 Coil 3 & 4-way	115 VAC	NEMA 4/4x	A-SV11
SOLENOID VALVES	Dual Coil 3 & 4-way	230 VAC	NEMA 4/4x	A-SV12
	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 115VAC NEMA 4/4x			A-SV21
	3-Way 24 VDC Hi Tempe		A 4x	A-SV22
	3 & 4-way	230 VAC	NEMA 4/4x 1/2" NPT Din Connector	A-SV23
	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
LIMIT SWITCH &	4-20mA	2-DPDT	NEMA 4/4x/7/9	A-LS22
TRANSMITTER	4-20mA	2-DPDT	NEMA 4/4x/7/9 w/ Visual Indicator	A-LS23
COMBINATION	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

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.

(CONTINUED NEXT PAGE)



Actuator Accessories Selection- Call for Application Detail

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

Accessory	Description	Accessory Part Number	,	
	2-SPDT NEMA 4/4x			A-LS40
	2-SPDT NEMA 4/4x w/ Visual Indica	itor		A-LS41
	2-SPDT NEMA 4/4x w/ Green/Red D	Dome Indicator		A-LS41D
	2-SPDT NEMA 4/4x w/ Low Profile In	ndicator		A-LS41L
	2-DPDT NEMA 4/4x			A-LS42
	2-DPDT NEMA 4/4x w/ Visual Indica	itor		A-LS43
	2-Proximity NEMA 4/4x			A-LS44
	2-Proximity NEMA 4/4x w/Low Profile Indicator NOTE - Requires user supplied intrinsic barrier			A-LS44L
LIMIT SWITCHES	2-Proximity NEMA 4/4x w/ Visual Indica	itor		A-LS45
	2-Proximity NEMA 7/9			A-LS46
	2-Proximity NEMA 7/9 w/ Visual Indicate	or		A-LS47
	2-Proximity NEMA 7/9 w/ Low Profile In-	dicator		A-LS47L
	2-SPDT NEMA 4/4x/7/9			A-LS48
	2-SPDT NEMA 4/4x 7/9 w/ Visual Inc	dicator		A-LS49
	2-DPDT NEMA 4/4x/7/9			A-LS50
	2-DPDT NEMA 4/4x/7/9 w/ Visual Inc	dicator		A-LS51
	4-SPDT NEMA 4/4x w/ 180° Indicate	or		A-LS52
INDICATORS	Dome Indicator			A-V2
TRANSMITTER	4-20mA Output Transmitter			A-PT1
PRESSURE GAUGE	1 (1-16(1)08)		A-G1	
SET	Plastic case, 3-gauge set for use with positioners: 1	- input pressure gauge	e 0-30 psi, 2- output gauges 0-160 psi	A-G2
	Standard Sintered Bronze, 40 micron, 1/8" NPT			A-M18
AIR MUFFLERS	Standard Sintered Bronze, 40 micron, 1/4" NPT			A-M14
	Speed Control Muffler (Adjustable Air Flow) 1/8" NP	Т		A-M2V18
	Speed Control Muffler (Adjustable Air Flow) 1/4" NP	Т		A-M2V14
ID TAG	Type 316 Stainless Steel ID Tag 1/2" x 3" (3-lines, 12-characters & spaces)			TAG3-015
	Ball Valve Stem Extension ¹			A-BVSE-xxx-000
Stem Extension	True Union 2000 Ball Valve Stem Extension ¹			A-BVSE2-xxx-000
	Butterfly Valve Stem Extension ¹			A-BFSE-xxx-000

Note:1 - 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 9: Diaphragm Valve Premium Preumatic Actuator Accessories (Not applicable to Diaphragm Valves with Plastic Actuator Housing)

Accessory	Description	Accessory Part Number
	3-15 psi NEMA 4x w/ Visual Indicator Top Loading (no gauge)	A-DPP1
PNEUMATIC	3-15 psi NEMA 4x w/ Visual Indicator Top Loading w/ gauges (3)	A-DPP2
POSITIONERS	3-15 psi NEMA 4x w/ Visual Indicator Bottom Loading (no gauge)	A-DPP3
	3-15 psi NEMA 4x w/ Visual Indicator Bottom Loading w/ gauges (3)	A-DPP4
	4-20mA (3-15 psi) NEMA 4 x w/Visual Indicator (up to 2")	A-DEP1
ELECTRO	4-20mA (3-15 psi) NEMA 4 x w/ Visual Indicator w/SS Gauges (up to 2")	A-DEP2
PNEUMATIC	4-20mA (3-15 psi) NEMA 4 x w/Visual Indicator (2-1/2" & up)	A-DEP3
POSITIONERS	4-20mA (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 Limit Switches (2-1/2"& up)	A-DEP5
	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
3-WAY SOLENOID	24 VDC NEMA 4/4x	A-DSV5
VALVES	115 VAC NEMA 7/9	A-DSV6
	230 VAC NEMA 7/9	A-DSV7
	24 VAC NEMA 7/9	A-DSV8
	12 VDC NEMA 7/9	A-DSV9
	24 VDC NEMA 7/9	A-DSV10

Actuated Valves Technical Actuator Accessories Selection- Call for Application Detail



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Table 9: Diaphragm Valve Premium Pneumatic Actuator Accessories (Not applicable to Diaphragm Valves with Plastic Actuator Housing)

Accessory		Accessory Part Number	
	115 VAC NEI	MA 4/4x	A-DSV11
	230 VAC NEI	MA 4/4x	A-DSV12
	24 VAC NEI	MA 4/4x	A-DSV13
	12 VDC NEI	MA 4/4x	A-DSV14
4-WAY SOLENOID	24 VDC NEI	MA 4/4x	A-DSV15
VALVES	115 VAC NEI	MA 7/9	A-DSV16
	230 VAC NEI	MA 7/9	A-DSV17
	24 VAC NEI	MA 7/9	A-DSV18
	12 VDC NEI	MA 7/9	A-DSV19
	24 VDC NEI	MA 7/9	A-DSV20
MICRO ² LIMIT	2-SPDT NEI	MA 4 w/ 180° Visual Indicator	A-DLS20
SWITCHES	2-SPDT NEI	MA 7/9 w/ 180° Visual Indicator	A-DLS25
PROXIMITY LIMIT SWITCHES	2-SPDT NEI	MA 4/4x	A-DLS23
LIMIT SWITCHES 3	2-SPDT NEI	MA 4	A-DLS24
SPEED CONTROLLER		Variable Speed Controller	A-DPSC1
ID TAG	Type 316 S	tainless Steel ID Tag 1-1/2" x 3" (3-lines, 12-characters & spaces)/td>	TAG3-015
Stem Extensions		Diaphragm Valve Stem Extension ¹	A-DPSE-xxx-000
HANDWHEEL	На	A-DHW1	
OVERRIDE	На	ndwheel override for 2-1/2" to 6" Linear Diaphragm Actuators	A-DHW2

note:

^{1 -} 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.

^{2 -} Micro Limit Switches used on valve sizes 1/2" through 2".

^{3 -} Limit Switches used on valve sizes 2-1/2" & larger.