

SMARTLINK® DS Intelligent Valve Actuator Assembly

ASSEMBLY NUMBER PAGES

To determine the Configured Item Number for SMARTLINK® DS Actuators coupled to a MAXON butterfly valve, ball valve or CV valve, select one choice each from the following categories:

Configured Item Number		
Size	Flow capacity (not applicable to ball valves)	Series
For butterfly valves	For CV valves	For ball valves
Size 0100 - 1" 0125 - 1-1/4" 0150 - 1-1/2" 0200 - 2" 0250 - 2-1/2" 0300 - 3" 0400 - 4" 0600 - 6" 0800 - 8" 1000 - 10" 1200 - 12" 1400 - 14" 1600 - 16" 1800 - 18" Flow capacity S - Standard Series DSCV - SMARTLINK® DS Control Valve	Size 0050 - 1/2" 0075 - 3/4" 0100 - 1" 0125 - 1-1/4" 0150 - 1-1/2" 0200 - 2" Flow capacity L - Low U - Undersized port Series DSCV - SMARTLINK® DS Control Valve	Size 0050 - 1/2" 0075 - 3/4" 0100 - 1" 0125 - 1-1/4" 0150 - 1-1/2" 0200 - 2" Series DSBV - SMARTLINK® DS Ball Valve

Configured Item Numbers are designated as follows:

For butterfly and CV valves:
Size space Flow capacity space Series

Example: To order a 1-1/4" SMARTLINK® DS direct coupled to a butterfly valve, the configured item number would be: 0125 S DSCV

For ball valves:
Size space Series

Example: To order a 3/4" SMARTLINK® DS direct coupled to a ball valve, the configured item number would be:

0075 DSBV

Segment choices for the valves listed above are shown on the following pages.



SEGMENT CHOICE DETAIL

NOTE: Some choices may not be available with all sizes and types of valves.

SMARTLINK® DS with butterfly valves (DSCV)

Segment name	Segment description	Segment choices	Segment choice description
BODY CONNECTION	Type of valve body connection	A	ANSI flange (1" thru 4"; 10" thru 18")
		M	M style flange (6" and 8")
		U	Actuator only
		X	Special
BODY SEALS [1]	Body seal material choices	A	Buna-N
		B	Viton
		U	Actuator only
		X	Special
BODY MATERIAL	Valve body material choices	U	Actuator only
		X	Special
		1	Cast iron
		2	Carbon steel (1" thru 4")
		3	Brass (1" thru 3")
BODY INTERNALS [2]	Internal valve body trim choices	5	Stainless steel (1" thru 4")
		U	Actuator only
		X	Special
		1	Trim package 1
		2	Trim package 1, oxy-clean (1" thru 4")
		5	Trim package 2 (1" thru 4")
TORQUE RATING	Choice of high or low torque rating (availability based on valve body size)	6	Trim package 2, oxy-clean (1" thru 4")
		C	300 in-lb (1" thru 16")
		D	900 in-lb (12" thru 18")
		U	Valve body only
POWER	Choice of power input	X	Special
		A	100-240 VAC
		B	24VDC
BRAKE	Optional brake	U	Valve body only
		0	No brake
		1	Brake needed
AREA CLASSIFICATION	Actuator area type	U	Valve body only
		0	General purpose
		1	Hazardous location
DISPLAY	Optional display/keypad	U	Valve body only
		0	No display/keypad
		1	Display/keypad

[1] Buna-N used with cast iron and carbon steel bodies. Viton used with brass bodies.

[2] Trim package 1 used with cast iron and carbon steel bodies. Trim package 1, oxy-cleaned used with brass bodies.

SMARTLINK® DS with butterfly valves (DSCV) - continued

Segment name	Segment description	Segment choices	Segment choice description
FLUID	Type of fluid	A	158F/70C max air
		B	350F/177C max air(6" thru 18" only)
		C	400F/204C max air (6" thru 18" only)
		D	Butane gas (1" thru 4")
		E	Coke oven gas (1" thru 4")
		F	Digester gas (1" thru 4")
		G	Landfill gas (1" thru 4" only)
		H	Manufactured gas (1" thru 4" only)
		I	Natural gas (1" thru 12" only)
		J	Oxygen (1" thru 4")
		K	Propane gas (1" thru 4")
		L	Propane/butane blend gas (1" thru 4")
		M	Refinery gas (1" thru 4")
		N	Sour natural gas (1" thru 4")
		O	Town gas (1" thru 4")
U	Actuator only		
X	Special		
FLANGES	Choice of optional flange kit	BRANSITHRD	Brass ANSI threaded flanges (1" thru 3")
		CIANSITHRD	Cast iron ANSI threaded flanges (1" thru 4")
		CINPTTHRD	Cast iron NPT threaded flanges (6", 8")
		CSANSITHRD	Carbon steel ANSI threaded flanges (1" thru 4")
		CSWLDG	Carbon steel welding flanges
		NONE	None selected
		SSANSITHRD	Stainless steel ANSI threaded flanges
		SSWLDG	Stainless steel welding flanges
		U	Actuator only
SOFTWARE VERSION	Actuator software included	A	Standard
		U	Valve body only
		X	Special
LANGUAGE	Available languages	A	English
		U	Valve body only
		X	Special
WIRE	Optional wire cable	0	None
		100	100 feet
		500	500 feet
TAGGING	Optional tagging type	ALW	Aluminum (wire-on)
		NONE	No tagging
		SSP	Stainless steel (permanent)
		SSW	Stainless steel (wire-on)
CONDUIT FITTINGS	Choice of plug material for conduit entrance	U	Valve body only
		0	Plastic plugs only
		1	IP66 fittings
COMMUNICATION	Default communication	A	Analog
		M	Modbus
INSTALLATION	Type of installation	NEW	New installation
		REPL	Replacement

SMARTLINK® DS with CV valves (DSCV)

Segment name	Segment description	Segment choices	Segment choice description
BODY CONNECTION	Type of valve body connection	B	ANSI threaded
		C	ISO 7/1 threaded
BODY SEALS [1]	Body seal material choices	A	Buna-N
		X	Special
BODY MATERIAL	Valve body material choices	X	Special
		1	Cast iron
BODY INTERNALS [1]	Internal valve body trim choices	X	Special
		1	Trim package 1
		5	Trim package 2
TORQUE RATING	Choice of high or low torque rating	C	300 in-lb
		U	Valve body only
		X	Special
POWER	Choice of power input	A	100-240 VAC
		B	24VDC
		U	Valve body only
BRAKE	Optional brake	U	Valve body only
		0	No brake
		1	Brake needed
AREA CLASSIFICATION	Actuator area type	U	Valve body only
		0	General purpose
		1	Hazardous location
DISPLAY	Optional display/keypad	U	Valve body only
		0	No display/keypad
		1	Display/keypad
FLUID	Type of fluid	A	158°F/70°C max air
		I	Natural gas
		K	Propane gas
		L	Propane/butane blend gas
		X	Special
SOFTWARE VERSION	Actuator software included	A	Standard
		U	Valve body only
		X	Special
LANGUAGE	Available languages	A	English
		U	Valve body only
		X	Special
WIRE	Optional wire cable	0	None
		100	100 feet
		500	500 feet
TAGGING	Optional tagging type	ALW	Aluminum (wire-on)
		NONE	No tagging
		SSP	Stainless steel (permanent)
		SSW	Stainless steel (wire-on)
CONDUIT FITTINGS	Choice of plug material for conduit entrance	U	Valve body only
		0	Plastic plugs only
		1	IP66 fittings
COMMUNICATION	Default communication	A	Analog
		M	Modbus
INSTALLATION	Type of installation	NEW	New installation
		REPL	Replacement

[1] Trim package 1: carbon steel shaft, carbon steel disc. Trim package 2: stainless steel shaft, carbon steel disc.

SMARTLINK® DS ball valves (DSBV)

NOTE: Some choices may not be available with all sizes and types of valves.

Segment name	Segment description	Segment choices	Segment choice description
VALVE FLOW CAPACITY	Choice of ball valve flow capacity	U	Actuator only
		1	1/32" slot (1/2" only)
		2	1/16" slot (1/2" thru 1")
		3	1/8" slot (1/2" and 3/4")
		4	3/16" slot (1" thru 2")
		5	1/4" slot (2" only)
		6	30 deg V
		7	60 deg V
		8	90 deg V (1" thru 2")
BODY CONNECTION	Type of valve body connection	9	Round port
		A	ANSI flanged 150#
		B	ANSI threaded
		U	Actuator only
BODY SEALS AND PACKING	Material choice for body seals	X	Special
		E	Teflon
		U	Actuator only
BODY MATERIAL	Choice of valve body material	X	Special
		U	Actuator only
		2	Carbon steel
		5	Stainless steel
BODY INTERNALS	Internal valve body trim choices	U	Actuator only
		X	Special
		1	Trim package 1
TORQUE RATING	Choice of high or low torque rating (availability based on valve body size)	C	300 in-lb
		D	900 in-lb (1" thru 2")
		U	Valve body only
		X	Special
POWER	Choice of power input	A	100-240 VAC
		B	24VDC
		U	Valve body only
BRAKE	Brake option not available with ball valves	U	Valve body only
		0	No brake
AREA CLASSIFICATION	Actuator area type	U	Valve body only
		0	General purpose
		1	Hazardous location
DISPLAY	Optional display/keypad	U	Valve body only
		0	No display/keypad
		1	Display/keypad

Segment name	Segment description	Segment choices	Segment choice description
FLUID	Type of fluid	A	Air
		D	Butane
		I	Natural gas
		K	Propane
		L	Butane/propane blend
		U	Actuator only
		X	Special
ACTUATOR POSITION	Actuator position relative to flow	L	Left - flow left
		R	Right - flow right
SOFTWARE VERSION	Actuator software included	A	Standard
		U	Valve body only
		X	Special
LANGUAGE	Available languages	A	English
		U	Valve body only
		X	Special
WIRE	Optional wire cable	0	None
		100	100 feet
		500	500 feet
TAGGING	Optional tagging type	ALW	Aluminum (wire-on)
		NONE	No tagging
		SSP	Stainless steel (permanent)
		SSW	Stainless steel (wire-on)
CONDUIT FITTINGS	Choice of plug material for conduit entrance	U	Valve body only
		0	Plastic plugs only
		1	IP66 fittings
COMMUNICATION	Default communication	A	Analog
		M	Modbus
INSTALLATION	Type of installation	NEW	New installation
		REPL	Replacement

ISO 5211 Adapter

The ISO 5211 adapter offers mounting options for third party ball valves and is standard on all DSBV products. SMARTLINK® DS ball valves (DSBV) are available as “Actuator only” configurations with ISO 5211 adapters by selecting the “Actuator only” choices for the valve-related segments at time of ordering. Model of ISO 5211 adapter supplied with each valve size is outlined below.

- F03 adapter - 0500 DSBV or 0075 DSBV
- F04 adapter - 0100 DSBV or 0125 DSBV
- F05 adapter - 0150 DSBV or 0200 DSBV

Any of these DSBV valves are available as “Actuator Only” by selecting segment choice “U” for the following segments:

- Valve Flow Capacity
- Body Connection
- Body Seals and Packing
- Body Material
- Body Internals
- Fluid

SMARTLINK® DS Control Actuator (DS CA) - coupling only

Configured Item Number: DS CA

Segment name	Segment description	Segment choices (DEFAULT is shaded)	Segment choice description
CONNECTION	Type of connection	K1	1/2" keyed output shaft
		K2	17mm keyed output shaft
		L1	Linkage arm
		L2	Lever arm (Beck retrofit)
		S1	1/2" square output shaft
		S2	3/4" square output shaft
TORQUE RATING	Choice of high or low torque rating	C	300 in-lb
		D	900 in-lb
		X	Special
POWER	Choice of power input	A	24VDC
		B	No brake
BRAKE	Optional brake	0	No brake
		1	Brake needed
AREA CLASSIFICATION	Actuator area type	0	General purpose
		1	Hazardous location
DISPLAY	Optional display/keypad	0	No display/keypad
		1	Display/keypad
CONDUIT FITTINGS	Choice of plug material for conduit entrance	0	Plugs only
		1	IP66 fittings
SOFTWARE VERSION	Actuator software included	A	Standard
		X	Special
LANGUAGE	Available languages	A	English
		X	Special
WIRE	Optional wire cable	0	None
		100	100 feet
		500	500 feet
TAGGING	Optional tagging type	ALW	Aluminum (wire-on)
		NONE	No tagging
		SSP	Stainless steel (permanent)
		SSW	Stainless steel (wire-on)
COMMUNICATION	Default communication	A	Analog
		M	Modbus
INSTALLATION	Type of installation	NEW	New installation
		REPL	Replacement

SMARTLINK® DS Spare Actuator (DS SA)

Configured Item Number: DS SA

Segment name	Segment description	Segment choices (DEFAULT is shaded)	Segment choice description
TORQUE RATING	Choice of high or low torque rating	C	300 in-lb
		D	900 in-lb
		X	Special
POWER	Choice of power input	A	100-240 VAC
		B	24VDC
BRAKE	Optional brake	0	No brake
		1	Brake needed
AREA CLASSIFICATION	Actuator area type	0	General purpose
		1	Hazardous location
DISPLAY	Optional display/keypad	0	No display/keypad
		1	Display/keypad
CONDUIT FITTINGS	Choice of plug material for conduit entrance	0	Plugs only
		1	IP66 fittings
SOFTWARE VERSION	Actuator software included	A	Standard
		X	Special
LANGUAGE	Available languages	A	English
		X	Special
WIRE	Optional wire cable	0	None
		100	100 feet
		500	500 feet
TAGGING	Optional tagging type	ALW	Aluminum (wire-on)
		NONE	No tagging
		SSP	Stainless steel (permanent)
		SSW	Stainless steel (wire-on)
COMMUNICATION	Default communication	A	Analog
		M	Modbus
INSTALLATION	Type of installation	NEW	New installation
		REPL	Replacement

For More Information

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