Triplex Sales
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SPXFLOW®

Valve Key

BUTTERFLY, SINGLE SEAT, MIX PROOF, ASEPTIC, REGULATING, PROCESS VALVES

TRIPLEX Sales Company

APV®

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Based in Charlotte, N.C., SPX FLOW, Inc. (NYSE: FLOW) improves the world through innovative and sustainable solutions. The company's product offering is concentrated in process technologies that perform mixing, blending, fluid handling, separation, thermal heat transfer and other activities that are integral to processes performed across a wide variety of nutrition, health and industrial markets. SPX FLOW had approximately $1.4 billion in 2020 annual revenues and has operations in more than 30 countries and sales in more than 140 countries. To learn more about SPX FLOW, please visit www.spxflow.com.

SV & SVS Butterfly Valves

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	SV1	316L	F	T20	A1	C41Y	20	TR	E	10	A0

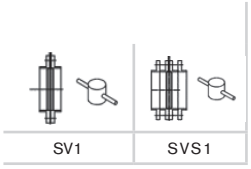
*** Add multiple options to the end of code (i.e. -A1A3)**

(1) VALVE TYPE

SV1 Standard (2-piece design)

SVS1 Intermediate Flanged (4-piece design)

SVS2 **I**ntermediate Flanges (4-piece design) New version



(2) MATERIAL OF CONSTRUCTION

316L Housing Material

(3) PORT CONNECTIONS

F Hygienic Flange (SVS1 only)

T Clamp (DIN 32676)

W Buttweld

G DIN Male Thread (DIN 11851)

S SMS Swedish Milk Standard (SMS 1145)

X Without Counter Flanges (SVS1 only)

Mixed port connections only available for SV1, specify both key identifiers. Example: TS

Additional port connections available upon request. Please contact factory.

(4) PORT SIZES

DN25	DN 25	**T10**	1.0" Tube
DN40	DN 40	**T15**	1.5" Tube
DN50	DN 50	**T20**	2.0" Tube
DN65	DN 65	**T25**	2.5" Tube
DN80	DN 80	**T30**	3.0" Tube
DN100	DN 100	**T40**	4.0" Tube
DN125	DN 125		
DN150	DN 150		
DN200	DN 200*		
DN250	DN 250*		

***SVS1 only**

(5) ACTUATOR

NORMALLY CLOSED	NORMALLY OPEN	AIR TO AIR	MANUAL	ACTUATOR SIZE	NOMINAL VALVE SIZE	OPTIONAL VALVE SIZE
A1	A2	A3		80 mm diameter	DN25-DN100 or T10-T40	
B1	B2	B3		125 mm diameter	DN125-DN150 or T60	DN100 or T40
C1	C2			180 mm diameter	DN200-DN250	DN125, DN150
			 H1	Standard Manual Handle Open/Closed Position	DN25-DN100 or T10-T40	
			 H1L	Lockable Manual Handle Open/Closed Position	DN25-DN100 or T10-T40	
			 H2	Infinite Position Adjustment Manual Handle	DN25-DN100 or T10-T40	
			 H3	Manual Handle with yoke, coupling, and indicator for position feedback*	DN25-DN100 or T10-T40	
			 M1	Metal Multi-position Handle	DN25-DN250 or T10-T60	
			 H3L2	Manual Handle with compact yoke, coupling, and indicator for position feedback*	DN25-DN100 or T10-T40	

*** Position feedback sensor sold separately.**

(6) CONTROL UNIT / FEEDBACK

See page 31 for most common control unit configurations. BOLD indicates standard control unit options. Use identifier "AA0A" as default for valves without control unit or sensor feedback.

CU Identifier Positions 1 & 2

CONTROL UNIT TYPE	
C4	**CU4**
CP	CU4plus
CX	IECEx CU (ATEX Zone 1)***
BE	TC8692 Electropneumatic Positioner

CU Identifier Position 3

SOLENOID	
1	**1 Solenoid**
9	1 Solenoid + NOT Element

CU Identifier Position 4

COMMUNICATION TYPE			CU UNITS AVAILABLE
	COMMUNICATION	VOLTAGE	
W	**Direct Connect**	**24V DC**	**CU4,** TC8692, CU4 plus, IECEx CU (ATEX Zone 1)***
U	Direct Connect	110 V AC	CU4
Y	**AS-i 62**		**CU4,** CU4plus

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	ELECTRICAL CONNECTION	ENVIRONMENTAL RATING
XX	N/A	Manual Handle Only	ATEX Zone 1 compliant***
2X	3X	No CU / Feedback	ATEX Zone 1 compliant***
20	**30**	**Cable Gland**	ATEX Zone 1 compliant***
24	34	4-pin M12 Connector*	-
25	35	5-pin M12 Connector**	-

***Only available on CU with AS-i communication**

****Only available on CU with Direct Connect Wire**

(8) SEAT TYPE

TR Elastomeric Profile Seal

(9) SEAL MATERIAL

E EPDM

V FPM

H HNBR

(10) SURFACE FINISH

GLASS BLASTED ACTUATOR OD	POLISHED ACTUATOR OD	INSIDE POLISH
10	20	1.6 µm (63 µ-in) Ra ID
11	21	0.8 µm (32 µ-in) Ra ID

Note: Base valve always has machine finish OD

(11) OPTIONS

A0 None

A1S 3.1 SPX Inspection Certification

A3Z1 ATEX Zone 1***

C6 Assembled (standard manual handle valve supplied dis-assembled for easier installation into pipeline; standard actuated valve supplied assembled)

***** Control Unit:**

IECEx CU: ex ia*** / Ex ia IIC T4 Gb

***** Valve:**

ATEX 2 G Ex h IIB T6...T3 Gb

BLV1 Ball Valves

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	BLV1	316L	W	T15	A1	C41Y	24	PT	T	11	A0

(1) VALVE TYPE

BLV1 2-way ball valve

(2) MATERIAL OF CONSTRUCTION

316L Housing Material

(3) PORT CONNECTIONS

W Buttweld

T Clamp

(4) PORT SIZES

DN15	DIN 15	**T050**	0.5" Tube
DN20	DIN 20	**T075**	0.75" Tube
DN25	DIN 25	**T10**	1.0" Tube
DN40	DIN 40	**T15**	1.5" Tube
DN50	DIN 50	**T20**	2.0" Tube
DN65	DIN 65	**T25**	2.5" Tube
DN80	DIN 80	**T30**	3.0" Tube
DN100	DIN 100	**T40**	4.0" Tube

(5) ACTUATOR

SPRING TO CLOSE	SPRING TO OPEN	AIR TO AIR	MANUAL	ACTUATOR SIZE	NOMINAL VALVE SIZE
A1	A2	A3		80 mm diameter	DN15-DN50 or T050-T20
B1	B2	B3		125 mm diameter	DN65-DN80 or T25-T30
C1	C2	C3		180 mm diameter	DN100 or T40
			 H1	Standard Manual Handle Open/Closed Position	DN15-DN100 or T050-T40
			 H3L2	Manual Handle with yoke, coupling, and indicator	DN15-DN100 or T050-T40

*** Position feedback sensor sold separately.**

(6) CONTROL UNIT / FEEDBACK

See page 31 for most common control unit configurations. BOLD indicates standard control unit options. Use identifier "AA0A" as default for valves without control unit or sensor feedback.

CU Identifier Positions 1 & 2

CONTROL UNIT TYPE	
C4	**CU4**
CP	CU4plus

CU Identifier Position 3

SOLENOID	
1	**1 Solenoid**
9	1 Solenoid + NOT Element

CU Identifier Position 4

COMMUNICATION TYPE			CU UNITS AVAILABLE
	COMMUNICATION	VOLTAGE	
W	**Direct Connect**	**24V DC**	**CU4, CU4plus**
Y	**AS-i 62**		**CU4,** CU4plus

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	ELECTRICAL CONNECTION
XX	N/A	Manual Handle Only
2X	3X	No CU / Feedback
20	**30**	**Cable Gland**
24	34	4-pin M12 Connector*
25	35	5-pin M12 Connector**

***Only available on CU with AS-i communication**

****Only available on CU with Direct Connect Wire**

(8) SEAT TYPE

PT PTFE

(9) SEAL MATERIAL

T PTFE

(10) SURFACE FINISH

GLASS BLASTED ACTUATOR OD	INSIDE POLISH
11	0.8 µm (32 µ-in) Ra ID

(11) OPTIONS

A0 None

SW Series Single Seat Valves

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	SW	41	W	T30	C1	CP1Y	30	TR	E	10	A0

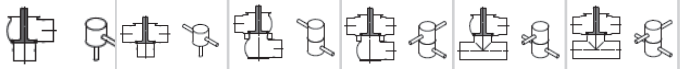
NOTE: Add multiple options to the end of code (i.e. -A1A3)

(1) VALVE TYPE

SW Single Seat Valves

(2) HOUSING COMBINATIONS

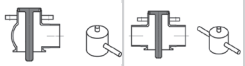
Shut-off Valves



41 | 42 | E41 | E42 | E43** | E44**

**E-style manifold housings are one-piece fully welded

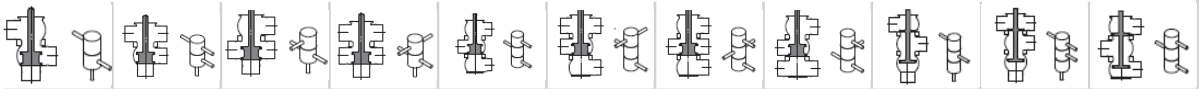
Tank Outlet Valves*



T41 | T42

*Tank flanges ordered separately

Change-over Valves



43 | 44 | 47 | 48 | E45 | E46 | E47 | E48 | S45 | S46 | SE45

(3) PORT CONNECTIONS

W **Buttweld**
T Clamp (DIN 32676)
K DIN Female Liner and Nut (DIN 11851) *
I IDF/ISS (International Dairy Flanges) *
G DIN male Thread (DIN 11851) *
S SMS Swedish Milk Standard (SMS 1145) *

(*) Not available for large sizes DN 125, DN 150 and T60

Additional and mixed port connections available upon request on certain housing combinations. Please contact factory.

(4) PORT SIZES

DN25	DN 25	**T10**	1.0" Tube
DN40	DN 40	**T15**	1.5" Tube
DN50	DN 50	**T20**	2.0" Tube
DN65	DN 65	**T25**	2.5" Tube
DN80	DN 80	**T30**	3.0" Tube
DN100	DN 100	**T40**	4.0" Tube
DN125	DN 125		
DN150	DN 150	**T60**	6.0" Tube

For availability of mixed sizes on E-style matrix housings, please contact Factory

(5) ACTUATOR

NORMALLY CLOSED	NORMALLY OPEN	AIR TO AIR	MANUAL	ACTUATOR SIZE	NOMINAL VALVE SIZE[1]
A1	A2	A3		74 mm diameter	DN25, DN40, T10, T15
B1	B2	B3		110 mm diameter	DN50, DN65, T20, T25
C1	C2	C3		165 mm diameter	DN80, DN100, T30, T40
D1	D2			255 mm diameter	Only DN125, D150, T60
E1	E2			110 mm diameter Long Stroke	Only DN50 to DN65 & T20 to T25
F1	F2			165 mm diameter Long Stroke	Only DN80, DN100, T30, T40
			H1	Manual Hand Actuator	DN25-DN150 or T10-T60

Add "L" to actuator identifier for stroke limiting mid-postion actuator (example "B1L"). Only available on A1, B1, C1.
[1] A, B & C sizes can be used beyond the nominal valve sizes DN25-DN100. See instruction manual for holding pressures.
For change-over valves, "Normally Closed" = "Fail Down" and "Normally Open" = "Fail Up"

(6) CONTROL UNIT / FEEDBACK

See page 31 for most common control unit configurations. BOLD indicates standard control unit options. Use identifier "HP0N" as default for valves without control unit. Use identifier "AA0A" for valves with manual handle.

CU Identifier Positions 1 & 2

CONTROL UNIT TYPE	
C4	**CU4**
CP	CU4plus
CX	IECEx CU (ATEX Zone 1)***

CU Identifier Position 3

SOLENOID	
1	**1 Solenoid**
9	1 Solenoid + NOT Element*
3	3 Solenoid

***Only available up to DN100/T40 size**

CU Identifier Position 4

COMMUNICATION TYPE			CU UNITS AVAILABLE
	COMMUNICATION	VOLTAGE	
W	**Direct Connect**	**24V DC**	**CU4,** CU4 plus, IECEx CU (ATEX Zone 1)***
U	Direct Connect	110 V AC	CU4
Y	**AS-i 62**		**CU4,** CU4plus

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	ELECTRICAL CONNECTION	ENVIRONMENTAL RATING
XX		Manual Handle Only	ATEX Zone 1 compliant***
2X	3X	No CU / Feedback	ATEX Zone 1 compliant***
20	**30**	**Cable Gland**	ATEX Zone 1 compliant***
24	34	4-pin M12 Connector*	-
25	35	5-pin M12 Connector**	-
28	38	8-PIN M12 Connector	-

***Only available on CU with AS-i communication**

****Only available on CU with Direct Connect Wire**

(8) SEAT TYPE

TR Elastomeric Profile Seal

(9) SEAL MATERIAL

E EPDM
V FPM
H HNBR

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
10	1.6 µm (63 µ-in) Ra ID
11	0.8 µm (32 µ-in) Ra ID with Electro-Polish

(11) OPTIONS

A0 None
A1S 3.1 SPX FLOW Inspection Certificate
A3Z1 ATEX Zone 1***
B1 3-A certification (at minimum with 0.8 µm (32 µ-in) Ra ID finish)
C1 Steam Barrier (DPF)
C4 Modulating cone
C7 Elastomer shaft seal

For high pressure (hp) options, please contact factory

***** Control Unit:**

IECEx CU: ex ia*** / Ex ia IIC T4 Gb

***** Valve:**

ATEX 2 G Ex h IIB T6...T3 Gb

SWmini Series Fractional Size Single Seat Valves

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	SWmini	41	W	T050	C1	C41W	20	TR	E	21	A0

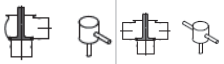
*** Add multiple options to the end of code (i.e. -A1A3)**

(1) VALVE TYPE

SWmini Single Seat Fractional

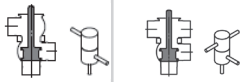
(2) HOUSING COMBINATIONS

Shut-off Valves



41 | 42

Change-over Valves



43 | 44

(3) PORT CONNECTIONS

W **Buttweld**
T Clamp (DIN 32676)

(4) PORT SIZES

DN10 DN 10
DN15 DN 15
DN20 DN 20

T050 0.5" Tube
T075 0.75" Tube

(5) ACTUATOR

NORMALLY CLOSED	NORMALLY OPEN	AIR TO AIR	MANUAL	ACTUATOR SIZE	NOMINAL VALVE SIZE
G1	G2	G3		50 mm	Only Used On SWmini Valves
			H1	Manual Actuator	

For change-over valves, "Normally Closed" = "Fail Down" and "Normally Open" = "Fail Up"

(6) CONTROL UNIT / FEEDBACK

See page 31 for most common control unit configurations. **BOLD indicates standard control unit options. Use identifier "HP0N" as default for valves without control unit. Use identifier "AA0A" for valves with manual handle.**

CU Identifier Positions 1 & 2

CONTROL UNIT TYPE	
C4	**CU4**
CP	CU4plus

CU Identifier Position 3

SOLENOID	
1	**1 Solenoid**
9	1 Solenoid + NOT Element

CU Identifier Position 4

COMMUNICATION TYPE			CU UNITS AVAILABLE
	COMMUNICATION	VOLTAGE	
W	**Direct Connect**	**24V DC**	**CU4,** CU4plus
Y	**AS-i 62**		**CU4,** CU4plus

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	ELECTRICAL CONNECTION
XX		Manual Handle Only
2X	3X	No CU / Feedback
20	**30**	**Cable Gland**
24	34	4-pin M12 Connector*
25	35	5-pin M12 Connector**

***Only available on CU with AS-i communication**
****Only available on CU with Direct Connect Wire**

(8) SEAT TYPE

TR Elastomeric Profile Seat

(9) SEAL MATERIAL

E EPDM
V FPM
H HNBR

(10) SURFACE FINISH

POLISHED OD	INSIDE POLISH
21	0.8 µm (32 µ-in) Ra ID

(11) OPTIONS

A0 None
C1 Steam Barrier DPF

Note: 3-A certified design is standard

MS Series Aseptic Diaphragm Single Seat Valves

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	MS	41	W	T20	B1	C41W	30	TR	E	11	A0

*** Add multiple options to the end of code (i.e. -A1A3)**

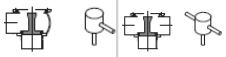
(1) VALVE TYPE

MS Diaphragm Style with Metal Stem and Elastomeric Seat Seal

MSP Diaphragm Style with PTFE Stem

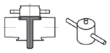
(2) HOUSING COMBINATIONS

Shut-off Valves



41 | 42

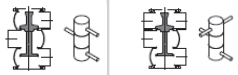
Tank Outlet Valves*



T42

***Tank flanges ordered separately**

Change-over Valves*



ES45 | ES46

***Change-over valves only available as MS type**

(3) PORT CONNECTIONS

W Buttweld

(4) PORT SIZES

DN25	DN 25	**T10**	1.0" Tube
DN40	DN 40	**T15**	1.5" Tube
DN50	DN 50	**T20**	2.0" Tube
DN65	DN 65	**T25**	2.5" Tube
DN80	DN 80	**T30**	3.0" Tube
DN100	DN 100	**T40**	4.0" Tube

(5) ACTUATOR

NORMALLY CLOSED	NORMALLY OPEN	AIR TO AIR	MANUAL	ACTUATOR SIZE	NOMINAL VALVE SIZE[1]
A1	A2	A3		74 mm diameter	DN25, T10
B1	B2	B3		110 mm diameter	DN40, DN50, T15, T20
C1	C2	C3		165 mm diameter	DN65, DN80, DN100, T25, T30, T40
			H1	Manual Hand Actuator	DN25-DN100 or T10-T40

Add "L" to actuator identifier for stroke limiting mid-position actuator (example "B1L"). Only available on A1, B1, C1.

[1] A, B & C sizes can be used beyond the nominal valve sizes DN25-DN100. See instruction manual for holding pressures.

For change-over valves, "Normally Closed" = "Fail Down" and "Normally Open" = "Fail Up"

(6) CONTROL UNIT / FEEDBACK

See page 31 for most common control unit configurations. BOLD indicates standard control unit options. Use identifier "HP0N" as default for valves without control unit. Use identifier "AA0A" for valves with manual handle.

CU Identifier Positions 1 & 2

CONTROL UNIT TYPE	
C4	**CU4**
CP	CU4plus

CU Identifier Position 3

SOLENOID	
1	**1 Solenoid**
9	1 Solenoid + NOT Element*
3	3 Solenoid

***Not available with MSP type**

CU Identifier Position 4

COMMUNICATION TYPE			CU UNITS AVAILABLE
	COMMUNICATION	VOLTAGE	
W	**Direct Connect**	**24V DC**	**CU4,** CU4plus
U	**Direct Connect**	**110 V AC**	**CU4**
Y	**AS-i 62**		**CU4,** CU4plus

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	ELECTRICAL CONNECTION
XX		Manual Handle Only
2X	3X	No CU / Feedback
20	**30**	**Cable Gland**
24	34	4-pin M12 Connector*
25	35	5-pin M12 Connector**
28	38	8-PIN M12 Connector **

***Only available on CU with AS-i communication**

****Only available on CU with Direct Connect Wire**

(8) SEAT TYPE

TR Elastomeric Profile Seat

PT PTFE Stem (MSP only)

(9) SEAL MATERIAL

E EPDM

V FPM

H HNBR

T PTFE (MSP only)

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
10*	1.6 µm (63 µ-in) Ra ID
11	0.8 µm (32 µ-in) Ra ID with Electro-Polish

***Not available with MSP type**

(11) OPTIONS

A0 None

A1S 3.1 SPX FLOW Inspection Certificate

B1 3-A certification (at minimum with 0.8 µm (32 µ-in) Ra ID surface finish)

C1 Shaft flush for large sizes

AP Series Fractional Size Aseptic Diaphragm Single Seat Valves

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	AP	11	W	DN10	TC1	AA0A	2X	PT	T	22	A1

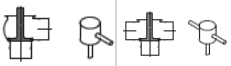
*** Add multiple options to the end of code (i.e. -A1A3)**

(1) VALVE TYPE

AP Fractional Size Diaphragm Style with PTFE Stem

(2) HOUSING COMBINATIONS

Shut-off Valves



11	12

(3) PORT CONNECTIONS

W Buttweld
T Clamp (DIN 32676)

(4) PORT SIZES

DN10 DN 10
DN15 DN 15
DN20 DN 20
T050 0.5" Tube

(5) ACTUATOR

NORMALLY CLOSED	NORMALLY OPEN	AIR TO AIR	MANUAL	ACTUATOR
TC1	TC2	TC3		Techno Air Actuator
			HT	Techno Hand Actuator

(6) FEEDBACK

IDENTIFIER	DESCRIPTION
AA0A	No CU
HP0N	2 Prox (open/closed) - Prox Holder only (no switches)

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	ELECTRICAL CONNECTION
XX		Manual Handle Only
2X	3X	No CU / Feedback

(8) SEAT TYPE

PT PTFE Stem

(9) SEAL MATERIAL

T PTFE

(10) SURFACE FINISH

POLISHED OD	INSIDE POLISH
22	Techno Only - 0.5 µm (20 µ-in) Ra ID with Electro-Polish

(11) OPTIONS

A1 3.1 Certification

Note: 3-A certified design is standard

D4 Series Double Seat Mix Proof Valve

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11*
CODE	D4	44	W	T30	SL	C43W	20	TR	E	11	A0

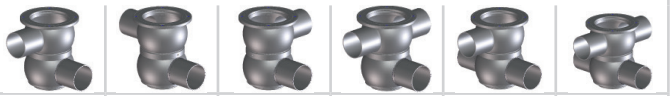
*** Add multiple options to the end of code (i.e. -A1A3)**

(1) VALVE TYPE

D4 Double Seat Mix Proof

(2) HOUSING COMBINATIONS

Shut-off Valves



41(16) | 41(17) | 41(18) | 42 | 43 | 44

(3) PORT CONNECTIONS

W Buttweld

Additional and mixed port connections available upon request. Please contact factory.

(4) PORT SIZES

DN40	DN 40	**T15**	1.5" Tube
DN50	DN 50	**T20**	2.0" Tube
DN65	DN 65	**T25**	2.5" Tube
DN80	DN 80	**T30**	3.0" Tube
DN100	DN 100	**T40**	4.0" Tube
DN125	DN 125		
DN150	DN 150	**T60**	6.0" Tube

For mixed size valves, indicate lower ports first.
Example: 1.5" Lower Housing by 2" Upper Housing is T15T20.
To verify availability of mixed sizes, please contact Factory

(5) ACTUATOR

IDENTIFIER	DESCRIPTION
NSL	Non Seat Lifting
SL	Seat Lifting

(6) CONTROL UNIT / FEEDBACK

See page 31 for most common control unit configurations. **BOLD indicates standard control unit options. Use identifier "HP0N" as default for valves without control unit.**

CU Identifier Positions 1 & 2

	CONTROL UNIT TYPE
C4	**CU4 (Ordinary location or ATEX Zone 2)*****
CP	CU4plus (Ordinary location or ATEX Zone 2)***
CX	IECEx CU (ATEX Zone 1)***

***** Control Unit:**

IECEx CU: ex ia*** / Ex ia IIC T4 Gb

ATEX CU4/CU4plus: II 3G Ex ec mc T4 Gc

***** Valve:**

ATEX 2 G Ex h IIB T6...T3 Gb

CU Identifier Position 3

	SOLENOID
1	1 Solenoid*
3	3 Solenoids

***Not available with seat lift actuator**

CU Identifier Position 4

	COMMUNICATION TYPE		CU UNITS AVAILABLE
	COMMUNICATION	VOLTAGE	
W	**Direct Connect**	**24V DC**	**CU4,** CU4 plus, IECEx CU (ATEX Zone 1)***
Y	**AS-i 62**		**CU4,** CU4plus

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	ELECTRICAL CONNECTION	ENVIRONMENTAL COMPLIANCE
2X	No CU / Feedback	ATEX Zone 1 compliant***
20	**Cable Gland**	ATEX Zone 1 compliant***
24	4-pin M12 Connector*	ATEX Zone 2 Compliant***
25	5-pin M12 Connector**	ATEX Zone 2 Compliant***
28	8-pin M12 Connector**	ATEX Zone 2 Compliant***

***Only available on CU with AS-i communication**
****Only available on CU with Direct Connect Wire**

(8) SEAT TYPE

TR Elastomeric Profile Seal

(9) SEAL MATERIAL

E EPDM
V FPM
H HNBR

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
11	0.8 µm (32 µ-in) Ra ID

(11) OPTIONS

A0 None
A3Z1 ATEX Zone 1***
A3Z2 ATEX Zone 2***
NOTE: 3-A certified desi

D4 Series Double Seat Mix Proof Changeover Valve

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11*
CODE	D4	44	W	T30	SL	C43W	20	TR	E	11	A0

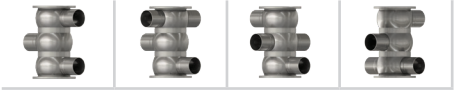
*** Add multiple options to the end of code (i.e. -A1A3)**

(1) VALVE TYPE

D4 Double Seat Mix Proof

(2) HOUSING COMBINATIONS

Shut-off Valves



U45* U46* U47* U48*

(3) PORT CONNECTIONS

W Buttweld

Additional and mixed port connections available upon request. Please contact factory.

(4) PORT SIZES

DN40	DN 40	**T15**	1.5" Tube
DN50	DN 50	**T20**	2.0" Tube
DN65	DN 65	**T25**	2.5" Tube
DN80	DN 80	**T30**	3.0" Tube
DN100	DN 100	**T40**	4.0" Tube

(5) ACTUATOR

IDENTIFIER	DESCRIPTION
SL	Seat Lifting

(6) CONTROL UNIT / FEEDBACK

See page 31 for most common control unit configurations. BOLD indicates standard control unit options. Use identifier "HP0N" as default for valves without control unit.

CU Identifier Positions 1 & 2

	CONTROL UNIT TYPE
C4	**CU4**
CP	CU4plus

CU Identifier Position 3

	SOLENOID
3	3 Solenoids

***Not available with seat lift actuator**

CU Identifier Position 4

	COMMUNICATION TYPE		CU UNITS AVAILABLE
	COMMUNICATION	VOLTAGE	
W	**Direct Connect**	**24V DC**	**CU4,** CU4 plus
Y	**AS-i 62**		**CU4,** CU4 plus

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	ELECTRICAL CONNECTION
2X	3X	No CU / Feedback
20	**30**	**Cable Gland**
24	34	4-pin M12 Connector*
28	38	8-pin M12 Connector**

***Only available on CU with AS-i communication**

****Only available on CU with Direct Connect Wire**

(8) SEAT TYPE

TR Elastomeric Profile Seal

(9) SEAL MATERIAL

E EPDM
V FPM
H HNBR

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
11	0.8 µm (32 µ-in) Ra ID

(11) OPTIONS

A0 None

NOTE: 3-A certified design is standard

DT4 Tank Outlet And DP4 Piggable Mix Proof Valve

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11*
CODE	DT4	T42	W	DN65	SL	C43Y	24	TR	E	11	C1

(1) VALVE TYPE

DT4 Tank Outlet Mix Proof
DP4 Piggable Mix Proof Valve

(2) HOUSING COMBINATIONS

Shut-off Valves

Tank Outlet	Piggable	
		
T42	DP42	DP44

(3) PORT CONNECTIONS

W Buttweld

Additional port connections available upon request. Please contact factory.

(4) PORT SIZES

DN40	DN 40	**T15**	1.5" Tube
DN50	DN 50	**T20**	2.0" Tube
DN65	DN 65	**T25**	2.5" Tube
DN80	DN 80	**T30**	3.0" Tube
DN100	DN 100	**T40**	4.0" Tube

(5) ACTUATOR

IDENTIFIER	DESCRIPTION
SL	Seat Lifting

(6) CONTROL UNIT / FEEDBACK

See page 31 for most common control unit configurations. **BOLD indicates standard control unit options. Use identifier "HP0N" as default for valves without control unit.**

CU Identifier Positions 1 & 2

	CONTROL UNIT TYPE
C4	**CU4**
CP	CU4plus

CU Identifier Position 3

	SOLENOID
3	3 Solenoids

CU Identifier Position 4

	COMMUNICATION TYPE		CU UNITS AVAILABLE
	COMMUNICATION	VOLTAGE	
W	**Direct Connect**	**24V DC**	**CU4,** CU4plus
Y	**AS-i 62**		**CU4,** CU4plus

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	ELECTRICAL CONNECTION
2X	No CU / Feedback
20	**Cable Gland**
24	4-pin M12 Connector*
28	8-pin M12 Connector**

***Only available on CU with AS-i communication**
****Only available on CU with Direct Connect Wire**

(8) SEAT TYPE

TR Elastomeric Profile Seal

(9) SEAL MATERIAL

E EPDM
V FPM
H HNBR

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
11	0.8 µm (32 µ-in) Ra ID

(11) OPTIONS

A0 None
C1 Shaft flush
NOTE: Shaft flush and 3-A certified design as standard

DA4 Double Seat Mix Proof Valve

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11*
CODE	DA4	44	W	DN50	SL	C43Y	20	TR	E	11	A0

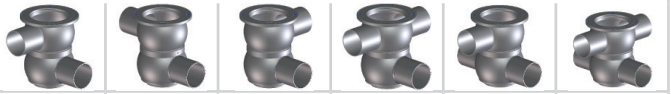
*** Add multiple options to the end of code (i.e. -A1A3)**

(1) VALVE TYPE

DA4 Advanced Ultra-Hygienic Double Seat Mix Proof

(2) HOUSING COMBINATIONS

Shut-off Valves



41(16)	41(17)	41(18)	42	43	44

Use identifier "40" for replacement insert (less housing) to upgrade an existing DA3+ valve. New control unit is required to adapt to D4 series valves.

(3) PORT CONNECTIONS

W Buttweld

Additional and mixed port connections available upon request. Please contact factory.

(4) PORT SIZES

DN40	DN 40	**T15**	1.5" Tube
DN50	DN 50	**T20**	2.0" Tube
DN65	DN 65	**T25**	2.5" Tube
DN80	DN 80	**T30**	3.0" Tube
DN100	DN 100	**T40**	4.0" Tube

For mixed size valves, indicate lower ports first.
Example: 1.5" Lower Housing by 2" Upper Housing is T15T20.
To verify availability of mixed sizes, please contact Factory

(5) ACTUATOR

IDENTIFIER	DESCRIPTION
SL	Seat Lifting (Includes Integrated Upper and Lower Shaft Flush for extensive cleaning and minimal CIP losses to drain)

(6) CONTROL UNIT / FEEDBACK

See page 31 for most common control unit configurations. BOLD indicates standard control unit options. Use identifier "HP0N" as default for valves without control unit.

CU Identifier Positions 1 & 2

	CONTROL UNIT TYPE
C4	**CU4**
CP	CU4plus

CU Identifier Position 3

	SOLENOID
3	3 Solenoids

CU Identifier Position 4

	COMMUNICATION TYPE		CU UNITS AVAILABLE
	COMMUNICATION	VOLTAGE	
W	**Direct Connect**	**24V DC**	**CU4,** CU4plus
Y	**AS-i 62**		**CU4,** CU4plus

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	ELECTRICAL CONNECTION
2X	3X	No CU
20	**30**	**Cable Gland**
24	34	4-pin M12 Connector*
28	38	8-pin M12 Connector**

***Only available on CU with AS-i communication**

****Only available on CU with Direct Connect Wire**

(8) SEAT TYPE

TR Elastomeric Profile Seal

(9) SEAL MATERIAL

E EPDM
V FPM
H HNBR

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
11	0.8 µm (32 µ-in) Ra ID

(11) OPTIONS

A0 None
C1 Steam Barrier DPF
NOTE: 3-A certified design is standard

DE Series Double Seat Mix Proof Valves

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11*
CODE	DE	34	W	DN50	NSL	C41W	20	TR	E	10	A0

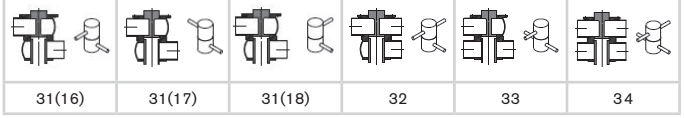
*** Add multiple options to the end of code (i.e. -A1A3)**

(1) VALVE TYPE

DE Double Seat Mix Proof

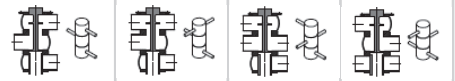
(2) HOUSING COMBINATIONS

Shut-off Valves



31(16)	31(17)	31(18)	32	33	34

Change-over Valves



U35	U36	U37	U38

(3) PORT CONNECTIONS

W Buttweld

(4) PORT SIZES

DN40	DN 40	**T15**	1.5" Tube
DN50	DN 50	**T20**	2.0" Tube
DN65	DN 65	**T25**	2.5" Tube
DN80	DN 80	**T30**	3.0" Tube
DN100	DN 100	**T40**	4.0" Tube

(5) ACTUATOR

IDENTIFIER	DESCRIPTION
NSL	Non Seat Lifting (Includes External Flush to clean atmospheric vent cavity)

(6) CONTROL UNIT / FEEDBACK

See page 31 for most common control unit configurations. BOLD indicates standard control unit options. Use identifier "HP0N" as default for valves without control unit.

CU Identifier Positions 1 & 2

	CONTROL UNIT TYPE
C4	**CU4**
CX	ATEX/IECEx CU

CU Identifier Position 3

	SOLENOID
1	**1 Solenoid**

CU Identifier Position 4

	COMMUNICATION TYPE		CU UNITS AVAILABLE
	COMMUNICATION	VOLTAGE	
W	**Direct Connect**	**24V DC**	**CU4,** ATEX CU, CU4plus
U	Direct Connect	110 V AC	CU4
Y	**AS-i 62**		**CU4,** CU4plus

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	ELECTRICAL CONNECTION
2X	No CU / Feedback
20	**Cable Gland**
24	4-pin M12 Connector*
25	5-pin M12 Connector**

***Only available on CU with AS-i communication**

****Only available on CU with Direct Connect Wire**

(8) SEAT TYPE

TR Elastomeric Profile Seal

(9) SEAL MATERIAL

E EPDM
V FPM
H HNBR

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
10	1.6 µm (63 µ-in) Ra ID

(11) OPTIONS

A0 None
A3 ATEX

DA Double Seat Mix Proof Valve with Seat Lift

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11*
CODE	DA	34	W	DN50	SL	C43Y	20	TR	E	11	A0

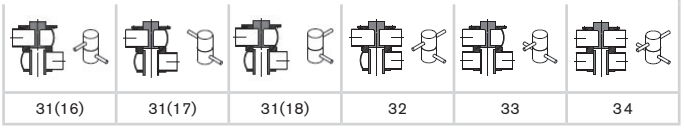
*** Add multiple options to the end of code (i.e. -A1A3)**

(1) VALVE TYPE

DA Double Seat Mix Proof

(2) HOUSING COMBINATIONS

Shut-off Valves



31(16)	31(17)	31(18)	32	33	34

(3) PORT CONNECTIONS

W Buttweld

(4) PORT SIZES

DN40	DN 40	**T15**	1.5" Tube
DN50	DN 50	**T20**	2.0" Tube
DN65	DN 65	**T25**	2.5" Tube
DN80	DN 80	**T30**	3.0" Tube
DN100	DN 100	**T40**	4.0" Tube
DN125	DN 125		
DN150	DN 150	**T60**	6.0" Tube

(5) ACTUATOR

IDENTIFIER	DESCRIPTION
SL	Seat Lifting (Includes Integrated Upper and Lower Shaft Flush for extensive cleaning and minimal CIP losses to drain)

(6) CONTROL UNIT / FEEDBACK

See page 31 for most common control unit configurations. BOLD indicates standard control unit options. Use identifier "HP0N" as default for valves without control unit.

CU Identifier Positions 1 & 2

	CONTROL UNIT TYPE
C4	**CU4**
CX	ATEX/IECEx CU

CU Identifier Position 3

	SOLENOID
3	**3 Solenoid**

CU Identifier Position 4

	COMMUNICATION TYPE		CU UNITS AVAILABLE
	COMMUNICATION	VOLTAGE	
W	**Direct Connect**	**24V DC**	**CU4,** ATEX CU, CU4plus, CS
Y	**AS-i 62**		**CU4,** CU4plus

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	ELECTRICAL CONNECTION
2X	No CU / Feedback
20	**Cable Gland**
24	4-pin M12 Connector*

For additional pin connector options on CU, please contact Factory

***Only available on CU with AS-i communication from Delavan factory**

(8) SEAT TYPE

TR Elastomeric Profile Seal

(9) SEAL MATERIAL

E EPDM
V FPM
H HNBR

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
11	0.8 µm (32 µ-in) Ra ID with Electro-Polish

(11) OPTIONS

A0 None
A2 Middle vent cavity seal for water hammering
A3 ATEX

SWcip Series Double Seal Mix Proof CIP Valves

The order code is constructed as follows:

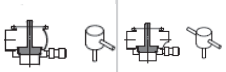
POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	SWcip	41	W	T25	B1	C41W	30	TR	E	10	A0

(1) VALVE TYPE

SWcip Double Seal Mix Proof CIP Valve

(2) HOUSING COMBINATIONS

Shut-off Valves



41	42

(3) PORT CONNECTIONS

W Buttweld

(4) PORT SIZES

DN25	DN 25	**T10**	1.0" Tube
DN40	DN 40	**T15**	1.5" Tube
DN50	DN 50	**T20**	2.0" Tube
DN65	DN 65	**T25**	2.5" Tube
DN80	DN 80	**T30**	3.0" Tube
DN100	DN 100	**T40**	4.0" Tube
DN125	DN 125		
DN150	DN 150	**T60**	6.0" Tube

(5) ACTUATOR

NORMALLY CLOSED	ACTUATOR SIZE	STANDARD VALVE SIZE[1]
A1	74 mm diameter	DN25, DN40, T10, T15
B1	110 mm diameter	DN50, DN65, T20, T25
C1	165 mm diameter	DN80, DN100, T30, T40
D1	255 mm diameter	DN125, DN150, T60

[1]See instruction manual pressure data chart for holding pressures

(6) CONTROL UNIT / FEEDBACK

See page 31 for most common control unit configurations. BOLD indicates standard control unit options. Use identifier "HP0N" as default for valves without control unit.

CU Identifier Positions 1 & 2

CONTROL UNIT TYPE	
C4	**CU4**
CP	CU4plus

CU Identifier Position 3

SOLENOID	
1	**1 Solenoid**
9	1 Solenoid + NOT Element

CU Identifier Position 4

COMMUNICATION TYPE			CU UNITS AVAILABLE
	COMMUNICATION	VOLTAGE	
W	**Direct Connect**	**24V DC**	**CU4,** CU4plus
Y	**AS-i 62**		**CU4,** CU4plus

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	ELECTRICAL CONNECTION
2X	3X	No CU / Feedback
20	**30**	**Cable Gland**
24	34	4-pin M12 Connector*
25	35	5-pin M12 Connector**

***Only available on CU with AS-i communication**

****Only available on CU with Direct Connect Wire**

(8) SEAT TYPE

TR Elastomeric Profile Seal

(9) SEAL MATERIAL

E EPDM

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
10	1.6 µm (63 µ-in) Ra ID
11	0.8 µm (32 µ-in) Ra ID with Electro-Polish

(11) OPTIONS

A0 None

A1S 3.1 SPX Inspection Certification

SD Series Double Seal Mix Proof Valves

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	SD	41	W	DN65	B1	C49Y	20	TR	E	10	A0

*** Add multiple options to the end of code (i.e. -A1A3)**

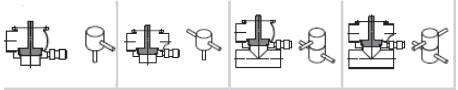
(1) VALVE TYPE

SD Double Seal Mix Proof

SDMS Aseptic Double Seal Mix Proof

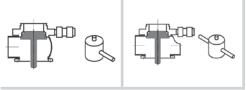
(2) HOUSING COMBINATIONS

Shut-off Valves



41	42	E43	E44

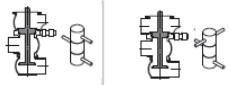
Tank Outlet Valves*



T41	T42

***Tank flanges ordered separately**

Change-over Valves



U45	U46

(3) PORT CONNECTIONS

W Buttweld

**Additional and mixed port connections available upon request.
Please contact factory.**

(4) PORT SIZES

DN25	DN 25	**T10**	1.0" Tube
DN40	DN 40	**T15**	1.5" Tube
DN50	DN 50	**T20**	2.0" Tube
DN65	DN 65	**T25**	2.5" Tube
DN80	DN 80	**T30**	3.0" Tube
DN100	DN 100	**T40**	4.0" Tube

(5) ACTUATOR

NORMALLY CLOSED	ACTUATOR SIZE	NOMINAL VALVE SIZE[1]
A1	74 mm diameter	DN25, DN40, T10, T15
B1	110 mm diameter	DN50, DN65, T20, T25
C1	165 mm diameter	DN80, DN100, T30, T40

[1] A, B & C sizes are available on all sizes DN25-DN100 see instruction manual for holding pressures
For change-over valves, "Normally Closed" = "Fail Down" and "Normally Open" = "Fail Up"
For SDMS type, nominal actuator sizes will vary. Please confirm configuration with factory.

(6) CONTROL UNIT / FEEDBACK

See page 31 for most common control unit configurations. BOLD indicates standard control unit options. Use identifier "HP0N" as default for valves without control unit.

CU Identifier Positions 1 & 2

	CONTROL UNIT TYPE
C4	**CU4**
CP	CU4plus
CX	IECEx CU (ATEX Zone 1)***

CU Identifier Position 3

	SOLENOID
1	1 Solenoid
9	**1 Solenoid + NOT Element**

CU Identifier Position 4

	COMMUNICATION TYPE		CU UNITS AVAILABLE
	COMMUNICATION	VOLTAGE	
W	**Direct Connect**	**24V DC**	**CU4,** CU4 plus, IECEx CU (ATEX Zone 1)***
Y	**AS-i 62**		**CU4,** CU4plus

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	ELECTRICAL CONNECTION	ENVIRONMENTAL RATING
2X	3X	No CU / Feedback	ATEX Zone 1 compliant***
20	**30**	**Cable Gland**	**-**
24	34	4-pin M12 Connector*	-
25	35	5-pin M12 Connector**	-

***Only available on CU with AS-i communication**

****Only available on CU with Direct Connect Wire**

(8) SEAT TYPE

TR Elastomeric Profile Seal

(9) SEAL MATERIAL

E EPDM

V FPM

H HNBR

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
10	1.6 µm (63 µ-in) Ra ID
11	0.8 µm (32 µ-in) Ra ID with Electro-Polish**

(11) OPTIONS

A0 None

A1S 3.1 SPX Inspection Certification

A3Z1 ATEX Zone 1***

C1 Steam barrier (DPF)*

Notes: 3-A certified design is standard with minimum 0.8 µm (32 µ-in) Ra ID surface finish.
***Not available with SDMS type.**
****Only available for SDMS4 models**

***** Control Unit:**

IECEx CU: ex ia*** / Ex ia IIC T4 Gb

***** Valve:**

ATEX 2 G Ex h IIB T6...T3 Gb

DKR Series Double Seat Mix Proof Ball Valves

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	DKR	S	F	DN65	A1	C41Y	20	PT	E	10	A0

*** Add multiple options to the end of code (i.e. -A1A3)**

(1) VALVE TYPE

DKR Double Seat Mix Proof Ball Valve

(2) HOUSING COMBINATIONS

Standard

S

High Pressure

H*

*** Only available in sizes DN50 and DN80**

(3) PORT CONNECTIONS

F Hygienic Flange

(4) PORT SIZES

DN25	DN 25	**T10**	1.0" Tube
DN40	DN 40	**T15**	1.5" Tube
DN50	DN 50	**T20**	2.0" Tube
DN65	DN 65	**T25**	2.5" Tube
DN80	DN 80	**T30**	3.0" Tube
DN100	DN 100	**T40**	4.0" Tube
DN125	DN 125		

(5) ACTUATOR

NORMALLY CLOSED	NORMALLY OPEN	ACTUATOR SIZE	STANDARD VALVE SIZE
A1	A2	80 mm diameter	DN25-DN65 or T10-T25
B1	B2	125 mm diameter	DN80-DN100 or T30-T40
C1	C2	180 mm diameter	DN125

(6) CONTROL UNIT / FEEDBACK

See page 31 for most common control unit configurations. BOLD indicates standard control unit options. Use identifier "AA0A" as default for valves without control unit.

CU Identifier Positions 1 & 2

CONTROL UNIT TYPE	
C4	**CU4**
CP	CU4plus
CX	IECEx CU (ATEX Zone 1)***

CU Identifier Position 3

SOLENOID	
1	**1 Solenoid**

***** Control Unit:**

IECEx CU: ex ia*** / Ex ia IIC T4 Gb

***** Valve:**

ATEX 2 G Ex h IIB T6...T3 Gb

CU Identifier Position 4

	COMMUNICATION TYPE		CU UNITS AVAILABLE
	COMMUNICATION	VOLTAGE	
W	**Direct Connect**	**24V DC**	**CU4,** CU4 plus, IECEx CU (ATEX Zone 1)***
Y	**AS-i 62**		**CU4**, CU4plus

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	ELECTRICAL CONNECTION	ENVIRONMENTAL RATING
2X	3X	No CU / Feedback	ATEX Zone 1 compliant***
20	**30**	**Cable Gland**	ATEX Zone 1 compliant***
24	34	4-pin M12 Connector*	-
25	35	5-pin M12 Connector**	-

***Only available on CU with AS-i communication**

****Only available on CU with Direct Connect Wire**

(8) SEAT TYPE

PT PTFE Seal

(9) SEAL MATERIAL

E EPDM
V FPM
H HNBR

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
10	1.6 µm (63 µ-in) Ra ID
11	0.8 µm (32 µ-in) Ra ID with Electro-Polish

(11) OPTIONS

A0 None
A3Z1 ATEX Zone 1***
C8 Leakage Reduction
SC CIP Stainless External Flush

Note: For horizontal valve installation in horizontal or vertical pipelines, please contact factory for special drain options

UF Series Pressure Relief Valves

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	UF	31	W	DN40	NSL	AA0A	2X	TR	E	10	L1

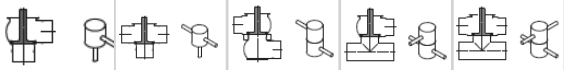
*** Add multiple options to the end of code (i.e. -A1A3)**

(1) VALVE TYPE

UF Pressure Relief Valve
UFR Pressure Relief Valve with Tapered Stem

(2) HOUSING COMBINATIONS

Shut-off Valves



31	32	E31	E33	E34

(3) PORT CONNECTIONS

W Buttweld

Additional and mixed port connections available upon request. Please contact factory.

(4) PORT SIZES

DN25	DN 25	**T10**	1.0" Tube
DN40	DN 40	**T15**	1.5" Tube
DN50	DN 50	**T20**	2.0" Tube
DN65	DN 65	**T25**	2.5" Tube
DN80	DN 80	**T30**	3.0" Tube
DN100	DN 100	**T40**	4.0" Tube

(5) ACTUATOR

IDENTIFIER	DESCRIPTION
NSL	Non Seat Lifting
SL	Seat Lifting

(6) CONTROL UNIT / FEEDBACK

IDENTIFIER	DESCRIPTION
AA0A	No CU / Feedback*

***Prox holder brackets and sensors ordered separately**

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	ELECTRICAL CONNECTION
2X	3X	No CU / Feedback

(8) SEAT TYPE

TR Elastomeric Profile Seal

***** Valve:**

ATEX 2 G Ex h IIB T6...T3 Gb

(9) SEAL MATERIAL

E EPDM
V FPM
H HNBR

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
10	1.6 µm (63 µ-in) Ra ID
11	0.8 µm (32 µ-in) Ra ID with Electro-Polish

(11a) PRESSURE RELIEF RANGE IN BAR (REQUIRED)

UF				
VALVE SIZE	PRESSURE RELIEF RANGE (BAR)			
T10	**LP**	**L1**		
DN25	0-6.8	0-10		
T15	**LM**	**LR**	**L1**	
DN40	0-3.5	0-7.5	0-10	
T20	**LK**	**LN**	**L1**	
DN50	0-2.1	0-4.5	0-10	
T25	**LK**	**LL**	**LS**	**L1**
DN65	0-2.1	0-2.7	0-7.6	0-10
T30	**LY**	**L3**	**LZ**	**L1**
DN80	0-0.9	0-1.8	0-5.2	0-10
T40	**LW**	**LH**	**LM**	**LT**
DN100	0-0.6	0-1.2	0-3.5	0-8.3

UFR				
VALVE SIZE	PRESSURE RELIEF RANGE (BAR)			
T10	**L8**	**L1**		
DN25	0-5.4	0-10		
T15	**L5**	**L9**	**L1**	
DN40	0-2.9	0-6.3	0-10	
T20	**L3**	**L6**	**L1**	
DN50	0-1.8	0-4.0	0-10	
T25	**L2**	**L4**	**LA**	**L1**
DN65	0-1.1	0-2.4	0-7.0	0-10
T30	**LX**	**LJ**	**L7**	**L1**
DN80	0-0.8	0-1.7	0-4.8	0-10
T40	**LU**	**L2**	**LQ**	**LB**
DN100	0-0.5	0-1.1	0-3.2	0-7.7

The minimum response pressure can be > 0 bar depending on the valve mounting position and the friction on the shaft seal For higher relief pressure opti

(11b) OPTIONS

A3Z1 ATEX Zone 1***
B1 3-A certification ((32 µ-in) Ra ID surface finish)

RG/RGE Series Modulating Valves

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	RG	41	F	T30 (63)	C1	S20W	30	LL	E	10	A0

*** Add multiple options to the end of code (i.e. -A1A3)**

For sizing of new modulating valve applications, please CLICK HERE to complete the RG specification sheet

(1) VALVE TYPE

RG Regulating
RGE Regulating Economical
RGMS Aseptic Membrane Regulating

(2) HOUSING COMBINATIONS

Shut-off Valves

41

For additional housing combinations, please contact factory

(3) PORT CONNECTIONS

F Hygienic Flange (standard on RG/RGMS)
W Buttweld (Only on RGE)
X Without Counter Flanges

Additional connections available upon request. Please contact factory.

(4) PORT SIZES (FLOW COEFFICIENT)

PORT SIZES (FLOW COEFFICIENT)				RG KV VALUE (M^3/H)[1]	RGE KV VALUE (M^3/H)[1]
DN25	DN 25	**T10**	1.0" Tube	0.25, 0.4, 0.63, 1.0, 1.6, 2.5, 4.0, 6.3, 10	6.3, 10
DN40	DN 40	**T15**	1.5" Tube	2.5, 4.0, 6.3, 10, 16, 25	16, 25
DN50	DN 50	**T20**	2.0" Tube	4.0, 6.3, 10, 16, 25, 40	40
DN65	DN 65	**T25**	2.5" Tube	16, 25, 40, 63	63
DN80	DN 80	**T30**	3.0" Tube	40, 63, 100	100
DN100	DN 100	**T40**	4.0" Tube	63, 100, 160	160
DN125	DN 125			100, 160, 250	N/A

[1]For key use port size with (Kv) in parentheses. Example: T20(6.3).
Kv chart shows all possible combinations of Kv based on valve size

(5) ACTUATOR

SPRING CLOSING MFS	SPRING OPENING MFH	MANUAL	ACTUATOR SIZE	RECOMMENDED KV-VALUES (M^3/H)
A1			120cm² actuating surface	0.25, 0.4, 0.63, 1.0, 1.6, 2.5, 4.0, 6.3, 10
B1			240cm² actuating surface	16, 25
C1			350cm² actuating surface	40, 63, 80, 100
D1			700cm² actuating surface	160, 250, 400
	A2		120cm² actuating surface	0.25, 0.4, 0.63, 1.0, 1.6, 2.5, 4.0, 6.3, 10, 16, 25, 40
	B2		240cm² actuating surface	63, 80
	C2		350cm² actuating surface	100
	D2		700cm² actuating surface	160, 250, 400
		H1	Manual Hand Actuator	Full range: 0.25-160

For special requests, please fill out the specification sheet and contact factory.
For holding pressures on actuators, please see instruction manual.
For actuator and Kv combinations that are not displayed, please contact factory for verification or fill out specification sheet.

(6) POSITIONER

BOLD indicates standard positioner option. Use identifier "AA0A" for valves without positioners (manual hand actuator)

IDENTIFIER	DESCRIPTION
INTEGRATED DESIGN	
S00W	Samson EP I/P (4-20mA) Model IP3725
S20W	**Samson EP I/P (4-20mA) Model IP3730-1 (Auto-tune) - standard**
EXTERNAL MOUNT DESIGN	
SN0W	Samson Namur mount EP I/P (4-20mA) Model IP763*

*** Available for RG/RGE models**

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	ELECTRICAL CONNECTION
XX		Manual Handle Only
2X	3X	No Positioner
20	**30**	**Cable Gland**

(8) STEM TYPE

LL Linear
EP Equal Percentage

All seats contain elastomer seat seal except DN25/T10 with 0.25-1.6 Kv values

(9) SEAL MATERIAL

E EPDM
V FPM
H HNBR

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
10	1.6 µm (63 µ-in) Ra ID*
11	0.8 µm (32 µ-in) Ra ID with Electro-Polish

***Only available with RGE type**

(11) OPTIONS

A0 None
A1S 3.1 SPX FLOW Inspection Certificate
A8 Noise Reducer*
B1 3-A certification (only with 0.8 µm (32 µ-in) Ra ID surface finish)
D4 No Seat Seal

***Only available with RG/RGMS types**

CPV Constant Pressure Valve

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	CPV	O	W	T20(25)	STD	AA0A	2X	M	E	11	A0

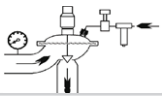
*** Add multiple options to the end of code (i.e. -A1A3)**

(1) VALVE TYPE

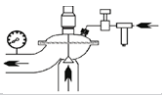
CPV Constant Pressure Valve

(2) APPLICATION

Constant Pressure Before Valve
O
(increasing product pressure acts to open the valve)



Constant Pressure After Valve
C
(increasing product pressure acts to close the valve)



(3) PORT CONNECTIONS

W Buttweld

(4) PORT SIZES (FLOW COEFFICIENT)

APPLICATION	PORT SIZES (FLOW COEFFICIENT)				MAXIMUM FLOW (M^3/H)
CPV-O	DN50(25)	DN 50	T20(25)	1.0" Tube	25
	DN50(10)		T20(10)		10
	DN50(3)		T20 (3)		3
CPV-C	DN50(22.5)	DN 50	T20(22.5)	1.5" Tube	22.5

Note: Additional flow coefficient (Kvs) values available upon request. Please contact Factory.

(5) ACTUATOR

IDENTIFIER	DESCRIPTION
STD	Standard

(6) CONTROL UNIT / FEEDBACK

IDENTIFIER	DESCRIPTION
AA0A	No CU available

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	CONNECTION TYPE
2X	N/A	No CU / Feedback

(8) SEAT TYPE

M Metal

(9) SEAL MATERIAL

T PTFE/EPDM (standard)
E EPDM

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
11	0.8 µm (32 µ-in) Ra ID

(11) OPERATING RANGE (REQUIRED)

B9 0.8-7.0 bar (11.6-101.5 psi) only with PTFE/EPDM seal material standard

B8 0.3-3.0 bar (4.4-43.5 psi) only with EPDM seal material

A1S 3.1 SPX Inspection Certification

Note: 3-A certified design is standard

RUF Spring Check Valve

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	RUF	S	F	T30	NA	AA0A	XX	TR	E	11	A0

*** Add multiple options to the end of code (i.e. -A1A3)**

(1) VALVE TYPE

RUF Spring Check Non-Return Valve

(2) HOUSING COMBINATIONS

S Standard

(3) PORT CONNECTIONS

F Hygienic Flange
X Without Counter Flanges

(4) PORT SIZES

DN25	DN 25	**T10**	1.0" Tube
DN40	DN 40	**T15**	1.5" Tube
DN50	DN 50	**T20**	2.0" Tube
DN65	DN 65	**T25**	2.5" Tube
DN80	DN 80	**T30**	3.0" Tube
DN100	DN 100	**T40**	4.0" Tube
DN125	DN 125		
DN150	DN 150	**T60**	6.0" Tube

Schedule 5 and 10 pipe sizes available upon request. Please contact Factory

(5) ACTUATOR

IDENTIFIER	DESCRIPTION
NA	N/A

(6) CONTROL UNIT / FEEDBACK

IDENTIFIER	DESCRIPTION
AA0A	No feedback available

(7) CONTROL UNIT / ACTUATOR CONNECTORS

IDENTIFIER	DESCRIPTION
XX	N/A

(8) SEAT TYPE

TR Elastomeric Profile Seal

(9) SEAL MATERIAL

E EPDM
V FPM
H HNBR

(10) SURFACE FINISH

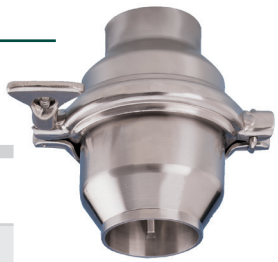
GLASS BLASTED OD	POLISHED OD	INSIDE POLISH
11	21	0.8 µm (32 µ-in) Ra ID with Electro-Polish

(11) OPTIONS

A0 None
A1S 3.1 SPX Inspection Certification

Note: 3-A certified design is standard

VPN Spring Check Valve



The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	VPN	S	W	T10	NA	AA0A	XX	TR	E	10	A0

(1) VALVE TYPE

VPN Spring Check Non-Return Valve

(2) HOUSING COMBINATIONS

S Standard

(3) PORT CONNECTIONS

W Buttweld

(4) PORT SIZES

DN25	DN 25	**T10**	1.0" Tube
DN40	DN 40	**T15**	1.5" Tube
DN50	DN 50	**T20**	2.0" Tube
DN65	DN 65	**T25**	2.5" Tube
DN80	DN 80	**T30**	3.0" Tube
DN100	DN 100	**T40**	4.0" Tube

(5) ACTUATOR

IDENTIFIER	DESCRIPTION
NA	N/A

(6) CONTROL UNIT / FEEDBACK

IDENTIFIER	DESCRIPTION
AA0A	No feedback available

(7) CONTROL UNIT / ACTUATOR CONNECTORS

IDENTIFIER	DESCRIPTION
XX	N/A

(8) SEAT TYPE

TR Elastomeric Profile Seat

(9) SEAL MATERIAL

E EPDM

(10) SURFACE FINISH

GLASS BLASTED OD	MACHINE FINISH OD	INSIDE POLISH
10	Standard	1.6 µm (63 µ-in) Ra ID

(11) OPTIONS

A0 None

PR Sample Valve


PRD20


PR22

The order code is constructed as follows:

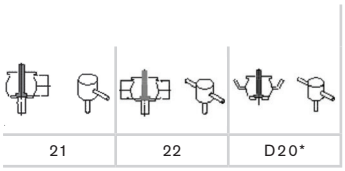
POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	PR	21	W	DN25	G4	AA0A	2X	M	E	10	A0

*** Add multiple options to the end of code (i.e. -A1A3)**

(1) VALVE TYPE

PR Sample Valve

(2) HOUSING COMBINATIONS



***Only available in size DN25**

(3) PORT CONNECTIONS

W Buttweld

(4) PORT SIZES

DN25	DN 25	**T10**	1.0" Tube
DN40	DN 40	**T15**	1.5" Tube
DN50	DN 50	**T20**	2.0" Tube
DN65	DN 65	**T25**	2.5" Tube
DN80	DN 80	**T30**	3.0" Tube
DN100	DN 100	**T40**	4.0" Tube

(5) ACTUATOR

IDENTIFIER	DESCRIPTION
G4	Manual Handle
G5	Pneumatic Actuator and Manual Handle Combination

(6) CONTROL UNIT / FEEDBACK

IDENTIFIER	DESCRIPTION
AA0A	No CU / Feedback*

***Prox holder brackets and sensors ordered separately**

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	ELECTRICAL CONNECTION
XX	N/A	Manual Handle Only
2X	3X	No CU / Feedback

(8) SEAT TYPE

PT PTFE

(9) SEAL MATERIAL

E EPDM
V FPM
H HNBR

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
10	1.6 µm (63 µ-in) Ra ID
11	0.8 µm (32 µ-in) Ra ID with Electro-Polish

(11) OPTIONS

A0 None
A1 3.1 certificate
A1S 3.1 SPX Inspection Certification
Z1 1 drain pipe (Only PRD)
Z2 2 drain pipes (Only PRD)

TRIPLEX Sales Company

VRA Vacuum Relief Valve

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	VRA	11	W	DN50	SL	AA0A	2X	TR	E	11	A0

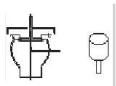
*** Add multiple options to the end of code (i.e. -A1A3)**

For assistance sizing of new vacuum relief valve applications, please contact factory or local sales agent.

(1) VALVE TYPE

VRA Vacuum Relief

(2) HOUSING COMBINATIONS



11

(3) PORT CONNECTIONS

W **Buttweld**
F Hygienic Flange

(4) PORT SIZES

DN50 DN 50
DN100 DN 100
DN150 DN 150

(5) ACTUATOR

TYPE	DESCRIPTION
SL	Seat Lifting

(6) CONTROL UNIT / FEEDBACK

TYPE	DESCRIPTION
AA0A	No CU / Feedback*

***Prox holder brackets and sensors ordered separately**

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	ELECTRICAL CONNECTION
2X	3X	No CU / Feedback

(8) SEAT TYPE

TR Elastomeric Profile Seal

(9) SEAL MATERIAL

E EPDM
V FPM
H HNBR

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
10	1.6 µm (63 µ-in) Ra ID
11	0.8 µm (32 µ-in) Ra ID with Electro-Polish

(11) OPTIONS

A0 None
B7 Large outlet port (only with VRA11)
X1 3.1 Flange

SI Safety Valve

The order code is constructed as follows:

POSITION	1	2	3	4	5	6	7	8	9	10	11
CODE	SI	21	FG	DN65	SL	AA0A	2X	TR	E	11	A1

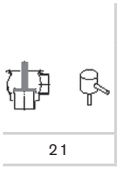
*** Add multiple options to the end of code (i.e. -A1A3)**

For assistance sizing of new safety relief valve applications, please contact factory or local sales agent.

(1) VALVE TYPE

SI Safety Valve

(2) HOUSING COMBINATIONS



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(3) PORT CONNECTIONS

F Hygienic Flange

(4) PORT SIZES

DN25 DN 25
DN40 DN 40
DN50 DN 50
DN65 DN 65
DN80 DN 80
DN100 DN 100

(5) ACTUATOR

TYPE	DESCRIPTION
HSL	Manual Handle Seat Lifting
SL	Pneumatic Seat Lifting

(6) CONTROL UNIT / FEEDBACK

TYPE	DESCRIPTION
AA0A	No CU / Feedback*

***Prox holder brackets and sensors ordered separately**

(7) CONTROL UNIT / ACTUATOR CONNECTORS

6 MM AIR FITTINGS	1/4" AIR FITTINGS	ELECTRICAL CONNECTION
2X	3X	No CU / Feedback

(8) SEAT TYPE

TR Elastomeric Profile Seat

(9) SEAL MATERIAL

E EPDM
V FPM
H HNBR

(10) SURFACE FINISH

GLASS BLASTED OD	INSIDE POLISH
11	0.8 µm (32 µ-in) Ra ID

(11a) OPTIONS

A1 3.1 Certification (standard)

(11b) PRESSURE RELIEF RANGE (REQUIRED)

VALVE SIZE	PRESSURE RELIEF RANGE (BAR) FOR FLUID AND GAS												
DN25	E1	E2	E3	E4	E5	E6	E7	E8					
	0.3-1.5 FG	1.5-2.1 FG	2.1-2.3 F	2.3-3.2 F	3.2-4.3 F	4.3-6.0 F	6.0-7.8 F	7.8-10.0 F					
DN40	F1	F2	F3	F4	F5	F6	F7	F8	F9	FA			
	0.3-0.75 FG	0.75-1.2 FG	1.2-2.1 FG	2.1-3.5 FG	3.5-4.0 FG	4.0-4.6 F	4.6-5.4 F	5.4-7.2 F	7.2-9.2 F	9.2-10.0 F			
DN50	G1	GC	G2	G3	G4	G5	G6	G7	G8	G9	GA	GB	
	0.3-0.55 FG	0.55-0.85 FG	0.85-1.5 FG	1.5-2.5 FG	2.5-2.7 FG	2.7-3.5 FG	3.5-4.1 F	4.1-5.25 F	5.25-6.0 F	6.0-7.4 F	7.4-8.9 F	8.9-10.0 F	
DN65	H1	H2	H3	H4	H5	HD	HC	H6	H7	HB	H8	H9	HA
	0.3-0.6 FG	0.6-0.9 FG	0.9-1.4 FG	1.4-1.7 FG	1.7-2.2 FG	2.2-2.6 FG	2.6-3.0 FG	3.0-3.5 F	3.5-4.3 F	4.3-4.95 F	4.95-5.75 F	5.75-6.95 F	6.95-7.8 F
DN80	J1	J2	J3	J4	J5	J6	J9	J7	JA	JB	J8	JC	
	0.3-0.65 FG	0.65-0.9 FG	0.9-1.15 FG	1.15-1.5 FG	1.5-1.8 FG	1.8-2.3 FG	2.3-2.8 FG	2.8-3.1 FG	3.1-3.5 F	3.5-4.1 F	4.1-5.05 F	5.05-5.9 F	
DN100	K9	K1	K2	K3	K4	K5	K6	KB	K7	KA	K8		
	0.45-0.60 F 0.45-0.50 G	0.75-0.95 F	0.95-1.2 F	1.2-1.6 F	1.6-2.0 F	0.3-0.45 F 0.4-0.45 G	0.6-0.75 F 0.5-0.70 G	2.0-2.35 F	2.35-2.75 F	2.75-3.35 F	>3.35-3.80 F		

Note: Exact relief set point is required when order submitted to factory. Certificate of pressure setting is supplied with valve.

F = Rated for fluid pressure relief

G = Rated for gas pressure relief

Control Units for all Valves

Control Units are identified with a 4 digit code.

For valve models available with control units, please specify the four digit code per the below example:

IDENTIFIER POSITION	1 & 2	3	4
EXAMPLE CODE	C4	1	Y
EXAMPLE VALVE KEY CODE	SV1-316L-F-T20-A1-C41Y-20-TR-E-10-A0		

COMMON CONFIGURATIONS

CONTROL UNIT IDENTIFIER	CU TYPE	COMMUNICATION TYPE	SOLENOIDS	COMMON VALVE TYPE AVAILABLE
AA0A	None	None	0 solenoids	AP, CPV, DKR, MS/MSP, PR, RUF, SI, SV/SVS, BLV1, SW, SWmini, UF/UFR, VPN, VRA
HP0N	Prox Holder Bracket	None	0 solenoids	AP, D4NSL, D4SL, DT4, DA4, DA, DE, MS/MSP, SD/SDMS, SW, SWcip, SWmini
C41W	CU4	Direct Connect 24V DC	1 solenoids	D4NSL, DE, DKR, MS/MSP, SV/SVS, BLV1, SW, SWcip, SWmini
C49W	CU4	Direct Connect 24V DC	1 solenoid w/NOT Element	MS, SV/SVS, BLV1, SD/SDMS, SW
C43W	CU4	Direct Connect 24V DC	3 solenoids	D4SL, DT4, DA4, DA
C41U	CU4	Direct Connect 110V AC	1 solenoids	SV/SVS, BLV1
C49U	CU4	Direct Connect 110V AC	1 solenoid w/NOT Element	SV/SVS, BLV1
C41Y	CU4	AS-i 62	1 solenoids	D4NSL, DE, DKR, MS/MSP, SV/SVS, BLV1, SW, SWcip, SWmini
C49Y	CU4	AS-i 62	1 solenoid w/NOT Element	MS, SD/SDMS, SV/SVS, BLV1, SW
C43Y	CU4	AS-i 62	3 solenoids w/SLD	D4SL, DT4, DA4, DA
CP1W	CU4plus	Direct Connect 24V DC	1 solenoids	D4NSL,DE, DKR, MS, MSP, SV/SVS, BLV1, SW, SWcip, SWmini
CP9W	CU4plus	Direct Connect 24V DC	1 solenoid w/NOT Element	MS, SV/SVS, BLV1, SD/SDMS, SW
CP3W	CU4plus	Direct Connect 24V DC	3 solenoids	D4SL, DT4, DA4, DA
CP1Y	CU4plus	AS-i 62	1 solenoids	D4NSL,DE, DKR, MS, MSP, SV/SVS, BLV1, SW, SWcip, SWmini
CP9Y	CU4plus	AS-i 62	1 solenoid w/NOT Element	MS, SV/SVS, BLV1, SD/SDMS, SW
CP3Y	CU4plus	AS-i 62	3 solenoids	D4SL, DT4, DA4, DA
CX1W	ATEX/IECEx CU	Direct Connect 24V DC	1 solenoids	D4, DE, MS, MSP, SV/SVS, SWCIP
CX9W	ATEX/IECEx CU	Direct Connect 24V DC	1 solenoid w/NOT Element	MS, MSP, SD/SDMS, SV/SVS, SW, SWCIP
CX3W	ATEX/IECEx CU	Direct Connect 24V DC	3 solenoids	D4, DA

CONTROL UNIT TYPE	DESCRIPTION
C4	CU4 model with 2 Hall sensors for feedback
CP	CU4plus model with Teach-in/Linear sensor for feedback and SLD
CX	ATEX and IECEx certified CU model with 2 sensors for feedback (only for Direct Connect 24V DC)
HP	Prox holder bracket compatible with 1 or 2 feedback positions. Sensors ordered separately

SLD = Seat Lift Detection for Mix Proof Valves

To order spare control units, it is necessary to provide the valve model and size. Please contact factory or local sales agent.

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Based in Charlotte, N.C., SPX FLOW, Inc. (NYSE: FLOW) improves the world through innovative and sustainable solutions. The company's product offering is concentrated in process technologies that perform mixing, blending, fluid handling, separation, thermal heat transfer and other activities that are integral to processes performed across a wide variety of nutrition, health and industrial markets. SPX FLOW had approximately $1.4 billion in 2020 annual revenues and has operations in more than 30 countries and sales in more than 140 countries. To learn more about SPX FLOW, please visit www.spxflow.com.

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