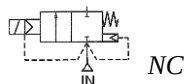


Media: air, water, steam, oil, fluid, gas
 Pressure range: 0.3 to 16 bar max*
 Media temperature: -15°C to +200°C* Max
 Ambient temperature: 0° to +60°C
 Media viscosity: 50 centistokes max
 Cycle life: 500,000 cycles
 Opening / Closing time: 3 - 5 Sec



2/2 Stainless Steel 304

DN50 – DN300

NORMALLY CLOSED

2 WAY SERVO ASSISTED

0.3 – 16* Bar

TYPE BFE-S



PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow Cv	Pressure Rating (Bar) ΔP		Seals	Part Number		
			Min	Max				
DN50	50	37	0.3	10*	NBR (80°C)	BFE50S + seal + voltage		
DN65	65	85	0.3	10*		BFE65S + seal + voltage		
DN80	80	110	0.3	10*		BFE80S + seal + voltage		
DN100	100	150	0.3	10*		BFE100S + seal + voltage		
DN125	125	230	0.3	10*	FKM (100°C)	BFE125S + seal + voltage		
DN150	150	450	0.3	10*		BFE150S + seal + voltage		
DN200	200	580	0.3	10*	*FFKM (200°C)	BFE200S + seal + voltage		
DN250	250	910	0.3	10*		BFE250S + seal + voltage		
DN300	300	1300	0.3	10*		BFE300S + seal + voltage		

OPTIONS

IP65 Coil & Connector PG 11 – DIN 43650A

Manual Over ride lever valve

ATEX EExmIIT4 II 2G & 2D IP65 T130°C coil

*16 Bar rated solenoid controller with M17 high power coil

Special 200°C steam rated solenoid controller and pipework with M17 coil

Other flanges JIS10K, JIS20K, ANSI150Lb

Other custom FFKM seals for +200C steam, media, seals, pressure and size options available upon request

ELECTRICAL DATA

Voltage (-10% +10%) Continuous Duty 100%		Coil	Power Consumption		Insulation Class	Enclosure	Electrical Connections
			Inrush	Holding			
~	24 – 110 – 230 (50 or 60 Hz)	M16	70 VA	35 VA	F 155°C	IP65 with connector	3 spades DIN 43650 DIN40050 VDE0110
=	12 – 24		26 Watts				
~	110 – 230 (50 or 60 Hz)	*M17	35VA	26VA	26VA		
=	24		19 Watts				

CONSTRUCTION

Body & Piston: 304 Stainless Steel (100% Pressure tested to 35 bar)

Seat + Shaft: Stainless steel

Bolts: Stainless Steel

Spring: Stainless steel

Ports: Flanged PN16 RF

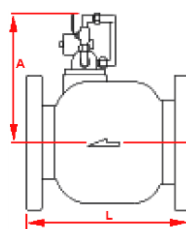
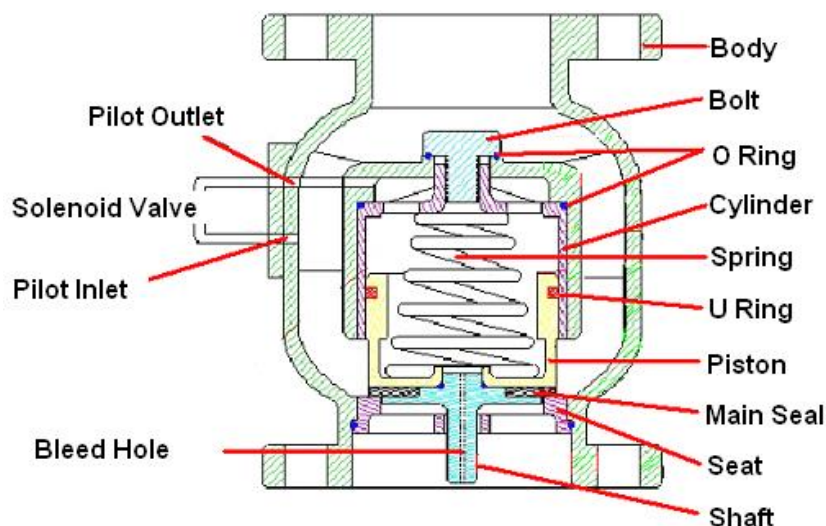
Seals and gaskets: NBR (+80°C max), Viton (+100°C max) or FFKM (+200°C max)

Control pipe work circuit + fittings: 304 stainless steel

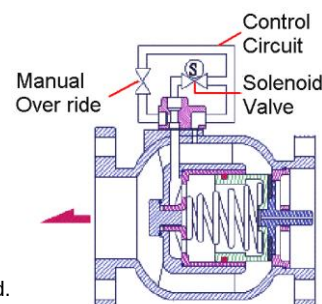
REPAIR KIT

Piston U Ring	SP + Valve Part Number + U RING
External Control pipework	BFES-NC + seal –PIPEWORK + voltage

OVERALL DIMENSIONS

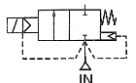


Port	L	A	Kg
DN50	190	187	12
DN65	210	192	15
DN80	225	210	18
DN100	250	222	24
DN125	280	235	32
DN150	310	260	44
DN200	420	300	87
DN250	470	335	152
DN300	530	370	202



©Copyright (BFE-S 100517) whole or partial reproduction of this catalogue or page without written consent is strictly prohibited.

Media: air, water, steam, gas, fluid
 Pressure range: 0.3 to 16 Bar max*
 Media temperature: -15°C to +200°C Max*
 Ambient temperature: 0°C to +60°C
 Media viscosity: 50 centistokes max
 Cycle life: 500,000 cycles
 Opening / Closing time: 3 - 5 Sec



NC

2/2 Stainless Steel 316

DN50 – DN300

NORMALLY CLOSED

2 WAY SERVO ASSISTED

0.3 – 16* Bar

TYPE BFE-SS



PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow Cv	Pressure Rating (Bar) ΔP		Seals	Part Number		
			Min	Max				
DN50	50	37	0.3	10*	NBR (80°C)	BFE50SS + seal + voltage		
DN65	65	85	0.3	10*		BFE65SS + seal + voltage		
DN80	80	110	0.3	10*		BFE80SS + seal + voltage		
DN100	100	150	0.3	10*		BFE100SS + seal + voltage		
DN125	125	230	0.3	10*	FKM (100°C)	BFE125SS + seal + voltage		
DN150	150	450	0.3	10*		BFE150SS + seal + voltage		
DN200	200	580	0.3	10*		BFE200SS + seal + voltage		
DN250	250	910	0.3	10*		BFE250SS + seal + voltage		
DN300	300	1300	0.3	10*	*FFKM (200°C)	BFE300SS + seal + voltage		

OPTIONS

IP65 Coil & Connector PG 11 – DIN 43650A

Manual Over ride lever valve

ATEX EExmIIT4 II 2G & 2D IP65 T130°C coil.

*16 Bar solenoid controller with M17 high power coil

Special 200°C steam rated solenoid controller and pipework with M17 coil

Other custom FFKM seals +200C steam, media, seals, pressure and size options available upon request

ELECTRICAL DATA

Voltage (-10% +10%) Continuous Duty 100%		Coil	Power Consumption		Insulation Class	Enclosure	Electrical Connections
			Inrush	Holding			
~	24 – 110 – 230 (50 or 60 Hz)	M16	70 VA	35 VA	F 155°C	IP65 with connector	3 spades DIN 43650 DIN40050 VDE0110
=	12 – 24		26 Watts				
~	110 – 230 (50 or 60 Hz)	*M17	35VA	26VA	N 200°C		
=	24		19 Watts				

CONSTRUCTION

Body & Piston: 316 Stainless Steel (100% Pressure tested to 35 bar)

Seat + Shaft: Stainless steel

Bolts: Stainless Steel

Spring: Stainless steel

Ports: Flanged PN16 RF

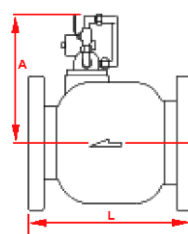
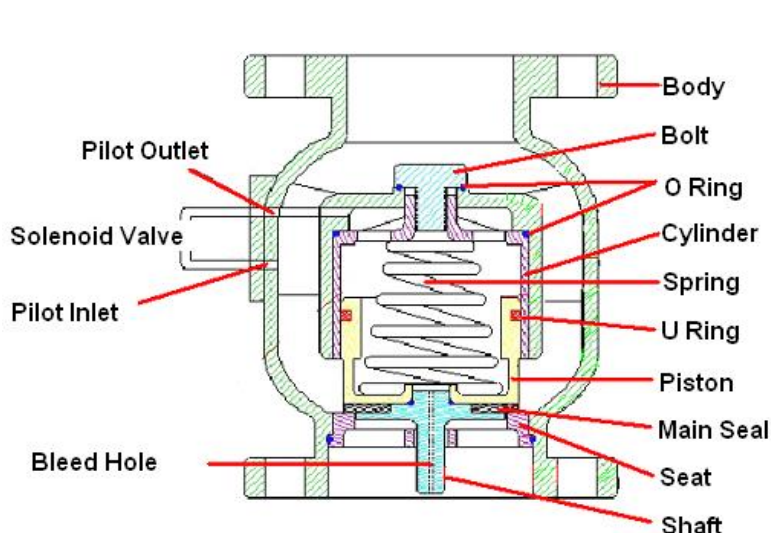
Seals and gaskets: Viton +100°C or NBR +80°C Max

Control pipe work circuit + fittings: 304 stainless steel

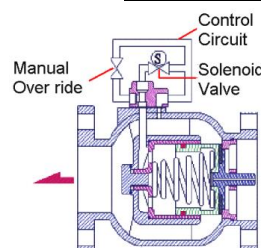
REPAIR KIT

Piston U Ring	SP + Valve Part Number + U RING
External Control pipework	BFESS-NC + seal –PIPEWORK + voltage

OVERALL DIMENSIONS

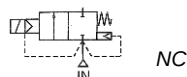


Port	L	A	Kg
DN50	190	187	12
DN65	210	192	15
DN80	225	210	18
DN100	250	222	24
DN125	280	235	32
DN150	310	260	44
DN200	420	300	87
DN250	470	335	152
DN300	530	370	202



©Copyright (BFE-SS 100517) whole or partial reproduction of this catalogue or page without written consent is strictly prohibited.

Media: air – water – Gas - Light Oil
 Pressure range: 1 to 100 Bar max
 Media temperature: -20 °C to +180°C max
 Ambient temp: -15°C to +60°C max
 Media viscosity: 50 centistokes max
 Mounting: any position
 Opening / Closing time: 50 mSec Max
 Weight 660g



2/2 Stainless

1/8 – 3/8

NORMALLY CLOSED

2 WAY SERVO ASSISTED

1 – 100 Bar

TYPE SAPS



PRESSURE

Ø Port BSP	Ø Orifice mm	Flow Kv Ltr/min	Pressure Rating (Bar) ΔP		Part Number
			Min	Max	
1/8	5	7.2	1	100	SAPS6150 + voltage
1/4	5	7.2	1	100	SAPS8150 + voltage
3/8	5	7.2	1	100	SAPS10150 + voltage

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 – DIN43650A
 NPT Thread
 Silver Shading Ring
 EPDM, NBR, SILICONE, VST, CR, ECO, HNBR and Hypalon (40 Bar Max)

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 60%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12 – 24 – 110 – 230 – 380 (50 or 60 Hz)	WPG2	18.7VA	15.3VA	F 155°C	IP65 With Connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 – 24 (DC)		18 Watts				

CONSTRUCTION

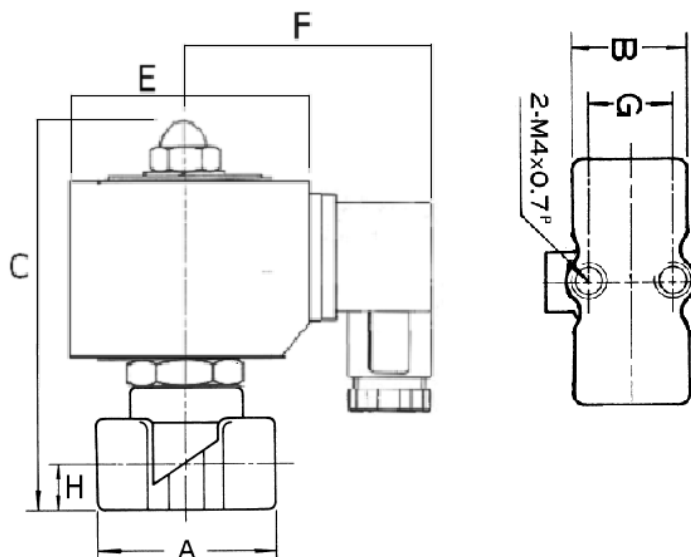
Body: 316 Stainless steel (CF8M)
 Tube: 304 stainless steel, armature 430F stainless steel
 Shading ring: copper
 Seals and gaskets: PTFE (Optional EPDM, NBR, SILICONE, VST, CR, ECO, HNBR and Hypalon)
 Moulded coil: Resin

REPAIR KIT

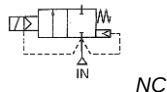
Armature	SP + Valve Part Number -ARMATURE
Coil	WPG2 + voltage

OVERALL DIMENSIONS

SAPS	A	B	C	D	E	F	G	H
6150	41	19	88	-	58	65	15	10.5
8150	41	19	88	-	58	65	15	10.5
10150	41	19	88	-	58	65	15	10.5



Media: air – water – light oil - steam
 Pressure range: 0.5 to 120 Bar max
 Media temperature: +180°C Max
 Ambient temp: -30°C to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing 200 mSec Max



2/2 Stainless

3/8 – 2

NORMALLY CLOSED

2 WAY SERVO ASSISTED

0.5 – 20, 40, 80 & 120 Bar

TYPE SAS, H, HH & HHH



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (Bar) ΔP			Part Number	
			Min	Max Steam	Max Air/ Water		
3/8	15	75	0.5	12	20	SAS14 + voltage	
1/2	15	75	0.5	12	20	SAS15 + voltage	
3/4	20	155	0.5	12	20	SAS20 + voltage	
1	25	220	0.5	12	20	SAS25 + voltage	
1 1/4	35	433	0.5	12	20	SAS35 + voltage	
1 1/2	35	433	0.5	12	20	SAS40 + voltage	
2	50	800	0.5	12	20	SAS50 + voltage	
3/8	15	75	0.5	12	40	SASH14 + voltage	
1/2	15	75	0.5	12	40	SASH15 + voltage	
3/4	20	155	0.5	12	40	SASH20 + voltage	
1	25	220	0.5	12	40	SASH25 + voltage	
1 1/4	35	433	0.5	12	40	SASH35 + voltage	
1 1/2	35	433	0.5	12	40	SASH40 + voltage	
2	50	800	0.5	12	40	SASH50 + voltage	
3/8	15	75	0.5	12	80	SAS14HH + voltage	
1/2	15	75	0.5	12	80	SAS15HH + voltage	
3/8	15	75	0.5	12	120	SAS14HH + voltage	
1/2	15	75	0.5	12	120	SAS15HH + voltage	

OPTIONS

IP67 (EN60529:1991+A1:2000) UL & CSA Approved Coil + IP65 LED Connector DIN 43650A
 ATEX Coil EExmIIT4 II 2G & 2D IP65 T130°C 10 Bar Max ☺ (20 Bar is special option 3/8 & 1/2 only)
 Silver Shading Ring (SASxxxS)
 NPT Thread
 Other custom made options available upon request

ELECTRICAL DATA

E20-THREE DATA							
Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 110 - 230 (50 or 60 Hz)	WPG2	18.7VA	15.3VA	H 180°C	IP 65 With Connector	3 spades DIN 43650 DIN 40050 VDE0110
=	12 – 24 DC		18 Watts				

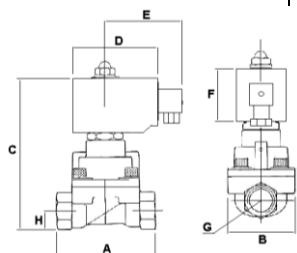
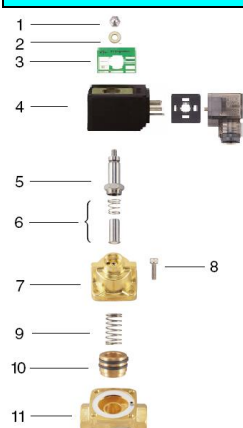
CONSTRUCTION

Body: 316 Stainless steel, Tube: 304 Stainless Steel Internal parts: 430F + 303 Stainless steel
 Seals and gaskets: PTFE, Moulded coil: Resin

REPAIR KIT

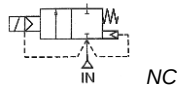
Coil	WPG2 + voltage
Piston	SP210 + valve part number

OVERALL DIMENSIONS



Model	A	B	C	D	E	F	G	H	Kg
SAS14	67	48	123	67	52	42	3/8	15	1.13
SAS15	67	48	123	67	52	42	1/2	15	1.1
SAS20	96	72	149	67	52	42	3/4	25	1.53
SAS25	96	72	149	67	52	42	1	25	1.85
SAS35	120	90	168	52	45	41	1 1/4	33	3.3
SAS40	120	90	168	52	45	41	1 1/2	33	3.25
SAS50	150	122	203	52	45	41	2	40.5	6.8

Media: air – water – gas – light oil
 Pressure range: 0.5 to 15 bar max
 Media temperature: -40°C to +160°C Max
 Ambient temperature: -40°C to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening Closing Time: 50 mSec Max



2/2 Stainless

3/8 – 2

NORMALLY CLOSED

2 WAY SERVO ASSISTED

0.5 – 15 Bar

TYPE SPU225®



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Pressure Rating (Bar) ΔP		Max Working	Seals	Max Media Temp. °C	Part Number
		Kv Ltr/ min	Min	Max				
3/8	13	40.0	0.5	10	15	NBR FKM EPDM	80 130 160	SPU22503N + voltage SPU22503V + voltage SPU22503E + voltage
1/2	13	40.0	0.5	10	15	NBR FKM EPDM	80 130 160	SPU22504AN + voltage SPU22504AV + voltage SPU22504AE + voltage
3/4	25	165.0	0.5	10	15	NBR FKM EPDM	80 130 160	SPU22506AN + voltage SPU22506AV + voltage SPU22506AE + voltage
1	25	165.0	0.5	10	15	NBR FKM EPDM	80 130 160	SPU22508AN + voltage SPU22508AV + voltage SPU22508AE + voltage
1 1/4	38	367	0.5	10	15	NBR FKM EPDM	80 130 160	SPU22512AN + voltage SPU22512AV + voltage SPU22512AE + voltage
1 1/2	38	500	0.5	10	15	NBR FKM EPDM	80 130 160	SPU22514AN + voltage SPU22514AV + voltage SPU22514AE + voltage
2	50	580	0.5	10	15	NBR FKM EPDM	80 130 160	SPU22520AN + voltage SPU22520AV + voltage SPU22520AE + voltage

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 ATEX 22003EX Coil: ATEX EExmII T4 II 2G & 2D IP65 T130°C
 Explosion Proof Enclosure: EExdIICT6 ATEX II 2 G/D IP65 (Custom made)
 NPT Thread
 Normally Closed with Silver Shading Ring (D014DVHA)
 HNBR seals same price as NBR or EPDM seal.

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12-24-48-110-220- 240-380 (50/60 Hz)	22003	23VA	17VA	H 180°C	IP65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12-24-48-110-220 (DC)		15 Watts				

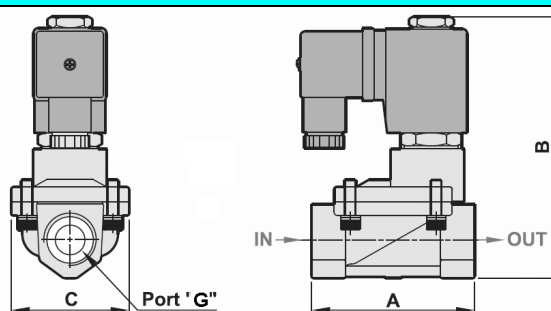
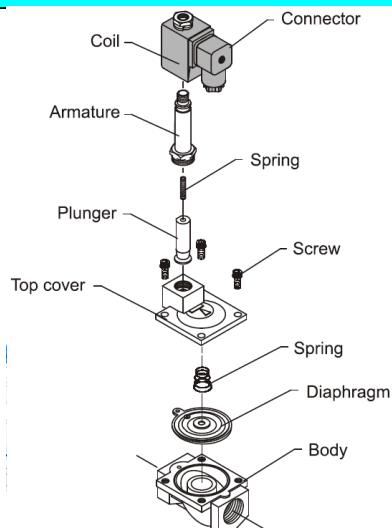
CONSTRUCTION

Body: 316 Stainless Steel (CF8M) ATEX Certified
 Tube and internal parts: 304 + 430F Stainless steel
 Seals and gaskets: FKM (Optional NBR, EPDM & HNBR)
 Moulded coil: Duroplast / Thermo set resin

REPAIR KIT

Diaphragm seal	225 + size code (03-20) + material
Coil	22003 + Voltage
Complete plunger + O' rings (Normally Closed)	225320VNC + seal material

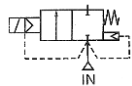
OVERALL DIMENSIONS



Model	SPU225 03 & 4A	SPU225 06A & 08A	SPU225 12A & 14A	SPU225 20A
Port	3/8 + 1/2	3/4 + 1	1 1/4	2
A	66.5	96	131.5	160
B	106.5	126	145.5	160
C	48	75	101	118
Kg	0.74Kg	1.565Kg	2.56Kg	3.44Kg

© Copyright (SPU225 2017) whole or partial reproduction of this catalogue or page without written consent is strictly prohibited.

Media: air – water – gas – light oil
 Pressure range: 0.5 to 15 Bar max
 Media temp: -40°C to +150°C max
 Ambient temp: -20°C to +60°C max
 Media viscosity: 50 centistokes
 Mounting: coil upright
 Opening Closing Time: 50 mSec Max



NC

2/2 Stainless

DN10 – DN50
 NORMALLY CLOSED
 2 WAY SERVO ASSISTED
 0.5 – 15 Bar
 TYPE SPU225F®



PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow Kv Ltr/Min	Pressure Rating (Bar) ΔP		Max Working	Seals	Max Media Temp. °C	Part Number	
			Min	Max					
DN10	13	40.0	0.5	10	15	NBR FKM EPDM	80 130 150	SPU22503F4N + voltage SPU22503F4V + voltage SPU22503F4E + voltage	
DN15	13	40.0	0.5	10	15	NBR FKM EPDM	80 130 150	SPU22504F4N + voltage SPU22504F4V + voltage SPU22504F4E + voltage	
DN20	25	165	0.5	10	15	NBR FKM EPDM	80 130 150	SPU22506F4N + voltage SPU22506F4V + voltage SPU22506F4E + voltage	
DN25	25	165	0.5	10	15	NBR FKM EPDM	80 130 150	SPU22508F4N + voltage SPU22508F4V + voltage SPU22508F4E + voltage	
DN32	40	450	0.5	10	15	NBR FKM EPDM	80 130 150	SPU22512F4N + voltage SPU22512F4V + voltage SPU22512F4E + voltage	
DN40	40	450	0.5	10	15	NBR FKM EPDM	80 130 150	SPU22514F4N + voltage SPU22514F4V + voltage SPU22514F4E + voltage	
DN50	50	580	0.5	10	15	NBR FKM EPDM	80 130 150	SPU22520F4N + voltage SPU22520F4V + voltage SPU22520F4E + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C
 Explosion Proof Enclosure: EExdIICT6 ATEX II 2 G/D IP65 (Custom made)
 Normally Closed with Silver Shading Ring (D014DVHA) Requires 22005 18.5 Watt high power coil
 ANSI150Lb (F3) & JIS10K (F) or other flange

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12-24-48-110-220-240-380 (50/60 Hz)	22003	23VA	17VA	H 180°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12-24-48-110-220 (DC)		15 Watts				

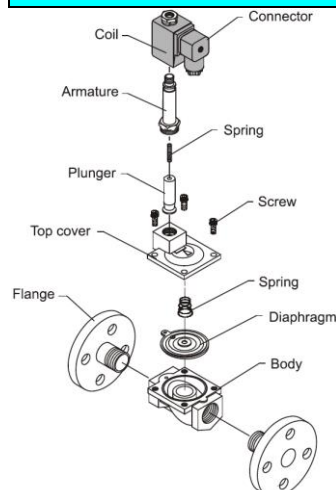
CONSTRUCTION

Body & Flanges: 316 Stainless Steel (CF8M)
 Tube and internal parts: 430F, 304 Stainless steel
 Seals and gaskets: FKM (Optional EPDM, NBR or HNBR)
 Moulded coil: Duroplast / Thermo set resin

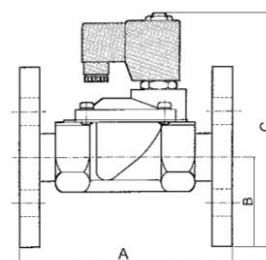
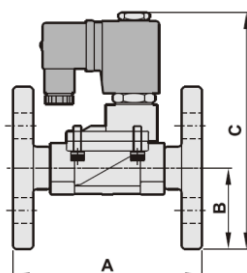
REPAIR KIT

Diaphragm Seal	225 + orifice code (03-20) + seal material
Coil	22003 + voltage
Armature assembly	225320 + seal material

OVERALL DIMENSIONS



Model	SPU225 03F	SPU225 04F	SPU225 06F	SPU225 08F	SPU225 12F	SPU225 14F	SPU225 20F
Port	DN10	DN15	DN20	DN25	DN32	DN40	DN50
A	110	110	149	150	180	180	210
B	45	47.5	50	62.5	67.5	70	77.5
C	137	139.5	152.5	164	173.0	182.5	210
Kg	3.1	3.1	4.13	4.1	5.68	5.66	7.55



© Copyright (SPU225F 2017) whole or partial reproduction of this catalogue or page without written consent is strictly prohibited.