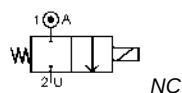


Media: air – water – gas – light oil - vacuum
 Pressure range: 0 to 15 bar max
 Media temperature: 120°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 50 centistokes max
 Mounting: any position
 Opening / Closing time: 20 mSec Max



2/2 Brass

1/8 – 1/2

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 15 Bar

TYPE AD612



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Coil	Flow	Pressure Rating (Bar) ΔP			Seals	Part Number
			Kv Ltr/min	Min	Max AC	Max DC		
1/8	3.0	WPG1	4	0	10	7	NBR +80°C SILICONE +120°C EPDM +120°C FKM +120°C *PTFE +120°C *VST +120°C	AD6A + seal + voltage
	4.0		5.5	0	7	5		AD6B + seal + voltage
	5.0		7.2	0	5	3.5		AD6C + seal + voltage
1/4	3.0	WPG1	4	0	10	7		AD8A + seal + voltage
	4.0		5.5	0	7	5		AD8B + seal + voltage
	5.0		7.2	0	5	3.5		AD8C + seal + voltage
3/8	4.0	WPG2	5.5	0	10	7		AD10A + seal + voltage
	6.0		10.5	0	5	3.5		AD10B + seal + voltage
	8.0		16.2	0	2	1.4		AD10C + seal + voltage
	4.0	WPA3C	5.5	0	15	10		AD10A-C3 + seal + voltage
	6.0		10.5	0	7	5		AD10B-C3 + seal + voltage
	8.0		16.2	0	3	2		AD10C-C3 + seal + voltage
1/2	6.0	WPG2	10.5	0	5	3.5		AD12A + seal + voltage
	8.0		16.2	0	2	1.4		AD12B + seal + voltage
	6.0	WPA3C	10.5	0	7	5		AD12A-C3 + seal + voltage
	8.0		16.2	0	3	2		AD12B-C3 + seal + voltage

OPTIONS

IP66 (EN60529:1991+A1:2000) CSA + UL Approved Coil & IP65 LED Connector PG11 – DIN 43650 A
 ATEX 22003EX Coil: ATEX EExmII T4 II 2G & 2D IP65 T130°C (Pressure rating 70% of WPG2 DC rated coil)
 * PTFE, VST, CR, ECO, HNBR or Hypalon Seals
 Silver shading ring (ADxxS)
 Manual Over Ride
 NPT Thread
 Other custom made options available upon request

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 110 - 230 (50 or 60 Hz)	WPG1	11.2VA	8.2VA	H 180°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 - 24 (DC)		12 Watts				
~	24 - 110 - 230 (50 or 60 Hz)	WPG2	18.7VA	15.3VA			
=	12 - 24 (DC)		18 Watts				
~	24 - 110 - 230 (50 or 60 Hz)	WPA3C	88VA	57VA	N 200°C	IP 54	30cm flying lead wire
=	12 - 24 (DC)		33.6 Watts				

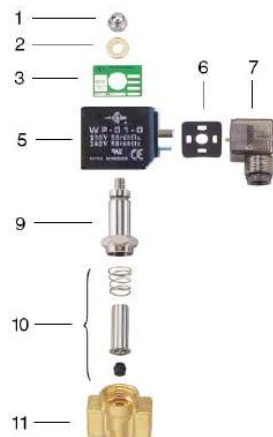
CONSTRUCTION

Body: Brass
 Tube and Spring: 304 Stainless/ Brass Armature: 430F Stainless Other internal parts: Stainless
 Shading ring: copper (optional Silver)
 Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, ECO, HNBR and Hypalon)
 Moulded coil: Resin

REPAIR KIT

Coil	Coil size (WPG1 or WPG2 or WPA3C) + voltage
Armature + Seal	SP210 + Valve Part Number

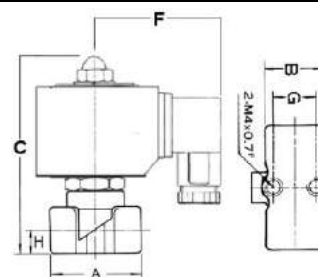
OVERALL DIMENSIONS



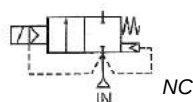
Item	Part No	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
5	WPG*	Coil
6	SP206-*	Gasket
7	SP207-*	Connector
9	SP209-*	Core Tube
10	SP210-*	Armature Assembly
17	SP211-*	Valve Body

* = Valve Part Number

Model	A	B	C	F*	G	H	Kg
AD6	41	19	85	63	15	10.5	0.47
AD8	41	19	89	63	15	10.5	0.47
AD10	50	25	90	65	15	11.7	0.73
AD12	55	27	91	65	17	13	0.78



Media: air – water – light oil - vacuum
 Pressure range: 0 to 10 bar max
 Media temperature: 155°C max
 Ambient temperature: -20°C to +60°C max
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing Time: 50 mSec Max



2/2 Brass

3/8 – 2

NORMALLY CLOSED

2 WAY ZERO RATED

0 – 10 Bar

TYPE AD14-50



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/min	Pressure Rating (Bar)			Seals	Max Media Temp. °C	Part Number	
			Min	DC Coil	AC Coil				
3/8	15	40	0	7	10	NBR FKM EPDM	80 120 155	AD14N + voltage AD14V + voltage AD14E + voltage	
1/2	15	40	0	7	10	NBR FKM EPDM	80 120 155	AD15N + voltage AD15V + voltage AD15E + voltage	
3/4	20	95	0	7	10	NBR FKM EPDM	80 120 155	AD20N + voltage AD20V + voltage AD20E + voltage	
1	25	185	0	7	10	NBR FKM EPDM	80 120 155	AD25N + voltage AD25V + voltage AD25E + voltage	
1 1/4	35	400	0	7	10	NBR FKM EPDM	90 120 120	AD35N + voltage AD35V + voltage AD35E + voltage	
1 1/2	35	400	0	7	10	NBR FKM EPDM	90 120 120	AD40N + voltage AD40V + voltage AD40E + voltage	
2	51	580	0	5	7	NBR FKM EPDM	90 120 120	AD50N + voltage AD50V + voltage AD50E + voltage	

OPTIONS

WPG IP67 Coil (EN60529:1991+A1:2000) UL & CSA Approved Coil + IP65 LED Connector PG11 DIN 43650A
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Max ΔP 3 Bar)
 NPT Thread
 Manual Over Ride (Base Mounted Screw T Bar for AD Series)

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 48 - 110 - 240 - 380 (50 or 60 Hz)	WPG2	18.7VA	15.3VA	H 180°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 - 24 - 48 - 110 (DC)		18 Watts				

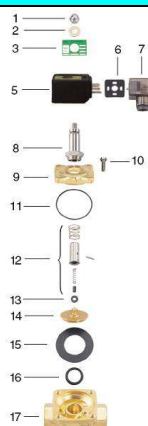
CONSTRUCTION

Body: Brass
 Tube and internal parts: Stainless steel
 Seals and gaskets: NBR (Optional EPDM or FKM or Silicone)
 Moulded coil: Resin

REPAIR KIT

Diaphragm seal	SP215 + valve part number
Coil	WPG2 + voltage

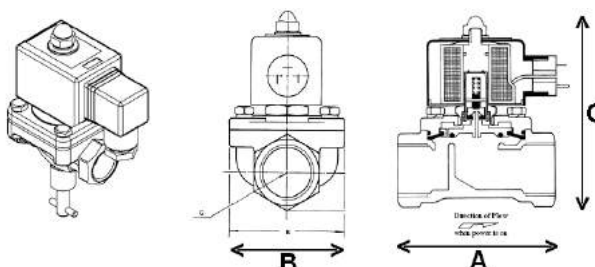
OVERALL DIMENSIONS



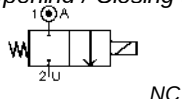
No.	Part No	Description
1	SP201*	Nut
2	SP202*	Washer
3	SP203*	Nameplate
5	SP205*	Coil
6	SP206*	Gasket
7	SP207*	Connector
8	SP208*	Core Tube
9	SP209*	Valve Bonnet
10	SP210*	Bolt
11	SP211*	Bonnet O Ring
12	SP212*	Armature Assembly
13	SP213*	Diaphragm Base Kit
14	SP214*	Diaphragm Base
15	SP215*	Diaphragm
16	SP216*	Base O Ring
17	SP217*	Valve Body

* = Valve Part Number

Model	AD14 AD15	AD20	AD25	AD35 AD40	AD50
Port R	1/2	3/4	1	1 1/2	2
A	75	85	100	120	150
B	52	60	70	90	120
C	103	114	120	140	160
Kg	1.03	1.24	1.51	2.77	4.81



Media: air – water – gas – light oil - vacuum
 Pressure range: 0 to 150 Bar max
 Media temperature: 120°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 50 centistokes max
 Mounting: any position
 Opening / Closing time: 20 mSec Max



2/2 Brass

1/8

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 150 Bar

TYPE AD6000



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Coil	Flow	Pressure Rating (Bar) ΔP			Seals	Part Number	
			Kv Ltr/min	Min	Max AC	Max DC			
1/8	1.2	WPG1	1.1	0	60	42	NBR +80°C SILICONE +120°C EPDM +120°C FKM +120°C *VST +180°C (30 Bar Max) *PTFE +180°C (150 Bar)	AD6012 + seal + voltage	
	1.6		1.5	0	40	28		AD6016 + seal + voltage	
	2.0		1.8	0	20	14		AD6020 + seal + voltage	
	1.2	WPG2	1.1	0	120	84		AD6112 + seal + voltage	
	1.6		1.6	0	60	42		AD6116 + seal + voltage	
	2.0		1.8	0	30	21		AD6120 + seal + voltage	
	3.0		4.3	0	20	14		AD6130 + seal + voltage	
	4.0		9.7	0	12	8.4		AD6140 + seal + voltage	
	5.0		10.7	0	10	7		AD6150 + seal + voltage	
	1.2	WPA3C	1.1	0	150	105		AD6212 + seal + voltage	
	1.6		1.5	0	80	56		AD6216 + seal + voltage	
	2.0		1.8	0	60	42		AD6220 + seal + voltage	
	3.0		4.3	0	40	28		AD6230 + seal + voltage	
	4.0		9.7	0	20	14		AD6240 + seal + voltage	
	5.0		10.7	0	15	10.5		AD6250 + seal + voltage	

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 – DIN 43650 A (Except WPA3C coil IP54)
 ATEX EExmII T4 II 2G & 2D IP65 T130°C coil (Pressure rating WPG1 same, WPG2 70% of DC rating, WPA3C not available)
 * PTFE, VST, CR, ECO, HNBR or Hypalon Seals
 Silver shading ring (ADxxS)
 Manual Over Ride
 NPT Thread
 Other custom made options available upon request

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 110 - 230 (50 or 60 Hz)	WPG1	11.2VA	8.2VA	H 180°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 - 24 (DC)		12 Watts				
~	24 - 110 - 230 (50 or 60 Hz)	WPG2	18.7VA	15.3VA			
=	12 - 24 (DC)		18 Watts				
~	24 - 110 - 230 (50 or 60 Hz)	WPA3C	88VA	57VA		IP54	30 cm flying lead wires
=	12 - 24 (DC)		33.6 Watts				

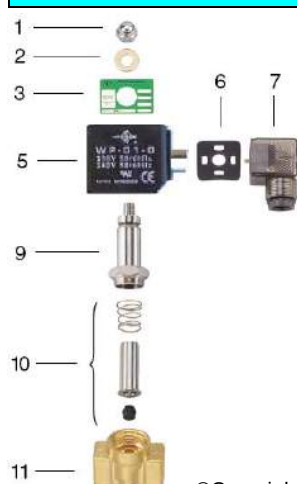
CONSTRUCTION

Body: Brass
 Tube and Spring: 304 Stainless/ Brass Armature: 430F Stainless Other internal parts: Brass
 Shading ring: copper (optional Silver)
 Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, FFKM, HNBR and Hypalon)
 Moulded coil: Resin

REPAIR KIT

Coil	Coil size (WPG1 or WPG2 or WPA3C) + voltage
Armature + seal	SP210 + Valve Part Number

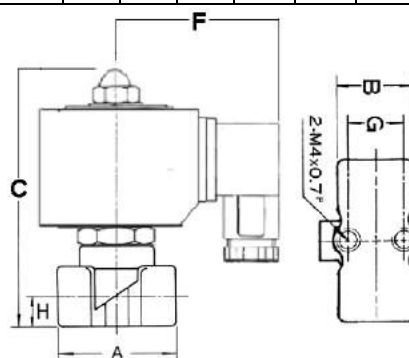
OVERALL DIMENSIONS



Item	Part No	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
5	SP205-*	Coil
6	SP206-*	Gasket
7	SP207-*	Connector
9	SP209-*	Core Tube
10	SP210-*	Armature Assembly
17	SP211-*	Valve Body

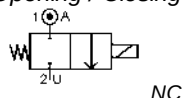
* = Valve Part Number

Model	A	B	C	F*	G	H	Kg
6012-6020	41	19	85	63	15	10.5	0.47
6112-6150	41	19	88	65	15	10.5	0.66
6212-6250	41	19	94	47	15	10.5	0.66



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Media: air – water – gas – light oil - vacuum
 Pressure range: 0 to 150 Bar max
 Media temperature: 120°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 50 centistokes max
 Mounting: any position
 Opening / Closing time: 20 mSec Max



2/2 Brass

1/4

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 150 Bar

TYPE AD8000



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Coil	Flow	Pressure Rating (Bar) ΔP			Seals	Part Number	
			Kv Ltr/min	Min	Max AC	Max DC			
1/4	1.2	WPG1	1.1	0	60	42	NBR +80°C SILICONE +120°C EPDM +120°C FKM +120°C *VST +180°C (30 Bar Max) *PTFE +180°C (150 Bar)	AD8012 + seal + voltage	
	1.6		1.5	0	40	28		AD8016 + seal + voltage	
	2.0		1.8	0	20	14		AD8020 + seal + voltage	
	1.2	WPG2	1.1	0	120	84		AD8112 + seal + voltage	
	1.6		1.6	0	60	42		AD8116 + seal + voltage	
	2.0		1.8	0	30	21		AD8120 + seal + voltage	
	3.0		4.3	0	20	14		AD8130 + seal + voltage	
	4.0		9.7	0	12	8.4		AD8140 + seal + voltage	
	5.0		10.7	0	10	7		AD8150 + seal + voltage	
	1.2	WPA3C	1.1	0	150	105		AD8212 + seal + voltage	
	1.6		1.5	0	80	56		AD8216 + seal + voltage	
	2.0		1.8	0	60	42		AD8220 + seal + voltage	
	3.0		4.3	0	40	28		AD8230 + seal + voltage	
	4.0		9.7	0	20	14		AD8240 + seal + voltage	
	5.0		10.7	0	15	10.5		AD8250 + seal + voltage	

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 – DIN 43650 A (Except WPA3C coil IP54)
 ATEX EExmIIT4 II 2G & 2D IP65 T130°C coil (Pressure rating WPG1 same, WPG2 70% of DC rating, WPA3C not available)
 * PTFE, VST, CR, ECO, HNBR or Hypalon Seals
 Silver shading ring (ADxxS)
 Manual Over Ride
 NPT Thread
 Other custom made options available upon request

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 110 - 230 (50 or 60 Hz)	WPG1	11.2VA	8.2VA	H 180°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 - 24 (DC)		12 Watts				
~	24 - 110 - 230 (50 or 60 Hz)	WPG2	18.7VA	15.3VA			
=	12 - 24 (DC)		18 Watts				
~	24 - 110 - 230 (50 or 60 Hz)	WPA3C	88VA	57VA		IP54	30 cm flying lead wires
=	12 - 24 (DC)		33.6 Watts				

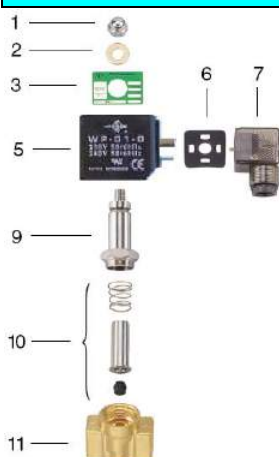
CONSTRUCTION

Body: Brass
 Tube and Spring: 304 Stainless/ Brass Armature: 430F Stainless Other internal parts: Brass
 Shading ring: copper (optional Silver)
 Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, ECO, HNBR and Hypalon)
 Moulded coil: Resin

REPAIR KIT

Coil	Coil size (WPG1 or WPG2 or WPA3C) + voltage
Armature + Seal	SP210 + Valve Part Number

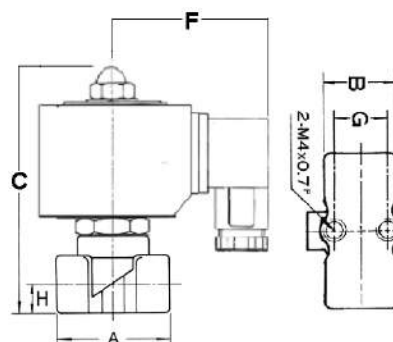
OVERALL DIMENSIONS



Item	Part No	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
5	WP*	Coil
6	SP206-*	Gasket
7	SP207-*	Connector
9	SP209-*	Core Tube
10	SP210-*	Armature Assembly
17	SP211-*	Valve Body

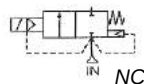
* = Valve Part Number

Model	A	B	C	F*	G	H	Kg
8012-8020	41	19	85	63	15	10.5	0.47
8112-8150	41	19	88	65	15	10.5	0.66
8212-8250	41	19	94	47	15	10.5	0.66



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Media: air – water – light oil – vacuum
 Pressure range: 0 to 10 Bar max
 Media temperature: 120° C max
 Ambient temperature: -20°C to +60°C max
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing Time: 50 mSec Max



2/2 Brass Flanged

DN15 – DN50
 NORMALLY CLOSED
 2 WAY ZERO RATED
 0 – 10 Bar
 TYPE ADF15-50



PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (Bar) ΔP			Max Working	Seals Temp °C	Part Number	
			Min	Max AC	Max DC				
1/2	15	75	0	10	7	10	NBR 80°C FKM 120°C EPDM 120°C Silicone 130°C	AD15PF + seal + voltage	
3/4	20	155	0	10	7	10		AD20PF + seal + voltage	
1	25	220	0	10	7	10		AD25PF + seal + voltage	
1 1/4	35	433	0	10	7	10		AD35PF + seal + voltage	
1 1/2	35	433	0	10	7	10		AD40PF + seal + voltage	
2	51	800	0	7	5	10		AD50PF + seal + voltage	

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 – DIN 43650 A
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Max ΔP 3 Bar)
 ANSI150Lb, JIS10K or other flange
 Manual Over Ride (Bottom entry mounted turn T bar)
 VST, CR, ECO, HNBR, Silicone or Hypalon Seals
 Other custom made 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)	WPG2	18.7VA	15.3VA	H 180°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 - 24 (DC)		18 Watts				

CONSTRUCTION

Body: Forged Brass
 Tube and Spring: 304 Stainless Armature: 430F Stainless other internal parts Brass
 Seals and gaskets: NBR (Optional EPDM, FKM, Silicone, VST, CR, ECO, HNBR or Hypalon)
 Moulded coil: Resin

REPAIR KIT

Coil	WPG2 + voltage
Diaphragm	SP215 + valve part number

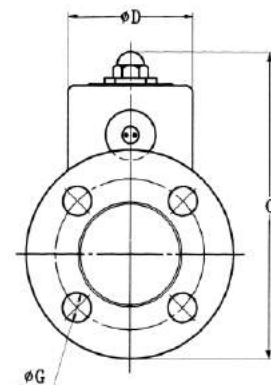
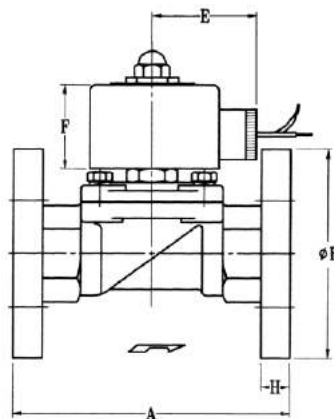
OVERALL DIMENSIONS



Model	A	B	C	D	G	H	Kg
AD15F	110			40			
AD20F	120			40			
AD25F	132	125	162	40	19	14	5.35
AD35F	160	135	174	40	19	16	7.75
AD40F	160	140	177	40	19	16	8.00
AD50F	200	155	195	40	19	16	11.0

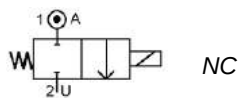
No.	Part No	Description
1	SP201*	Nut
2	SP202*	Washer
3	SP203*	Nameplate
5	WPG2*	Coil
6	SP206*	Gasket
7	SP207*	Connector
8	SP208*	Core Tube
9	SP209*	Valve Bonnet
10	SP210*	Bolt
11	SP211*	Bonnet O Ring
12	SP212*	Armature Assembly
13	SP213*	Diaphragm Base Kit
14	SP214*	Diaphragm Base
15	SP215*	Diaphragm
16	SP216*	Base O Ring
17	SP217*	Valve Body

* = Valve Part Number



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Media: vacuum - air - water
 Pressure range: 0 to 2 Bar max
 Media temperature: -10°C +60°C
 Ambient temperature: -20°C to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Open: 250-500 Close: 500-1000 mSec



2/2 Bronze + Cast Iron

DN65 – DN100

NORMALLY CLOSED

2 WAY ZERO RATED

0 – 2 Bar

TYPE LK



PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (Bar)		Seals	Body Material	Part Number	
			Min	Max				
21/2	80	1367	0	2	NBR	Bronze	LK65B-NBR + voltage	
3	80	1616	0	2	NBR	Bronze	LK80B-NBR + voltage	
4	100	2833	0	1	NBR	Cast Iron	LK100C-NBR + voltage	

OPTIONS

IP65 Coil + Connector PG9 – DIN 43650 A
 ANSI150Lb, JIS10K or other flange
 FKM Seals

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	110 – 230v (50/60 Hz) (Rectified)	22007	30VA		F 155°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	24 – 96 – 196v (DC)		30 Watts				

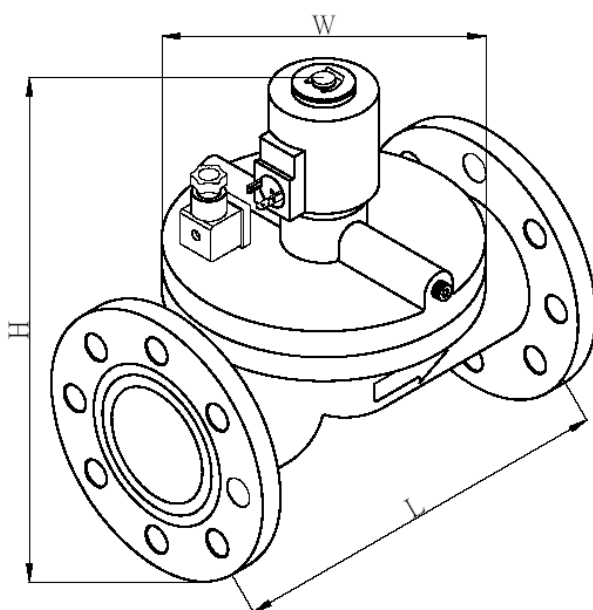
CONSTRUCTION

Body: Bronze or Cast Iron
 Tube and internal parts: Stainless steel
 Seals and gaskets: NBR
 Moulded coil: Resin

REPAIR KIT

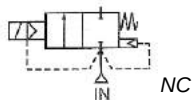
Diaphragm Seal	SP + Valve Part Number – DIAPHRAGM
Coil	22007 + voltage
Armature	SP + Valve Part Number – ARMATURE

OVERALL DIMENSIONS



Model	LK65	LK80	LK100
Port	65	80	100
L	290	290	340
H	336	336	391
W	210	210	270
Kg	21Kg	21Kg	36Kg

Media: air – water – light oil - vacuum
 Pressure range: 0 to 5 or 0 to 16 Bar max
 Media temperature: -40°C to +150°C max
 Ambient temperature: -20°C to +60°C max
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing Time: 50 mSec Max



2/2 Brass

3/8 – 1

NORMALLY CLOSED

2 WAY ZERO RATED

0 – 5 or 16 Bar

TYPE PU220®



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Pressure Rating (Bar)					Seals	Max Media Temp. °C	Part Number	
		Kv Ltr/ min	Min	DC Coil		AC Coil					
				15 Watt	18.5 Watt	15 Watt	18.5 Watt				
3/8	13	35	0	5		8.5		NBR FKM EPDM	80 120 150	PU22003 + voltage PU22003V + voltage PU22003E + voltage	
1/2	13	35	0	5		8.5		NBR FKM EPDM	80 120 150	PU22004A + voltage PU22004AV + voltage PU22004AE + voltage	
3/4	20	72	0	5		8.5		NBR FKM EPDM	80 120 150	PU22006A + voltage PU22006AV + voltage PU22006AE + voltage	
1	25	183	0	5		7		NBR FKM EPDM	80 120 150	PU22008A + voltage PU22008AV + voltage PU22008AE + voltage	
3/8	13	35	0		12		12	NBR FKM EPDM	80 120 150	PU22003 + voltage +18W PU22003V + voltage+18W PU22003E + voltage+18W	
1/2	13	35	0		12		12	NBR FKM EPDM	80 120 150	PU22004A + voltage+18W PU22004AV + voltage+18W PU22004AE + voltage+18W	
3/4	20	72	0		16		16	NBR FKM EPDM	80 120 150	PU22006A + voltage+18W PU22006AV + voltage+18W PU22006AE + voltage+18W	
1	25	183	0		16		16	NBR FKM EPDM	80 120 150	PU22008A + voltage+18W PU22008AV + voltage+18W PU22008AE + voltage+18W	

OPTIONS

22003 IP65 CE Approved Coil & Connector PG9 – DIN 43650 A Connector
 ATEX 22003EX Coil: ATEX EExmII T4 II 2G & 2D IP65 T130°C (Max ΔP 3 Bar)
 NPT Thread

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12 -24-48-110-240-380 (50/60 Hz)	22003	23VA	17VA	H 180°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 - 24 - 48 - 110 (DC)		15 Watts				
~	24-48-110-240- 380 (50/ 60 Hz)	22005	33VA	24VA			
=	12 - 24 - 48 - 110 (DC)		18.5 Watts				

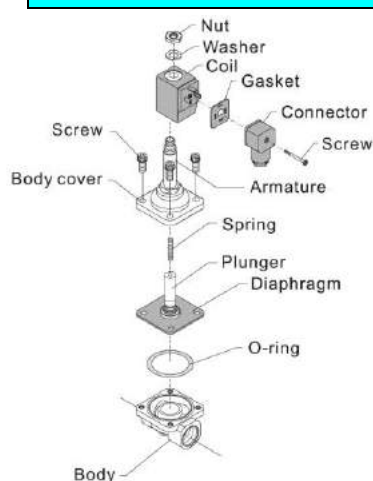
CONSTRUCTION

Body: Brass, Tube and internal parts: Stainless steel
 Seals and gaskets: NBR (Optional EPDM, FKM or HNBR), Nass Magnet Moulded coil: DuroPlast / ThermoSet Resin

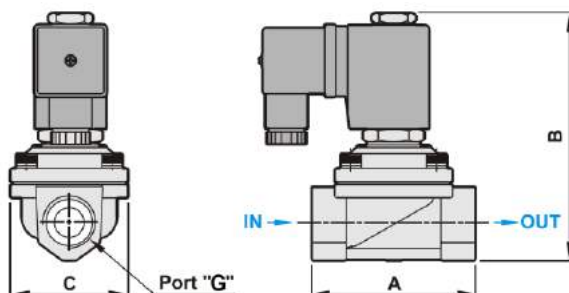
REPAIR KIT

Diaphragm seal	22004, 22006 or 22008 + seal material
Coil	Coil size (22003 or 22005) + voltage
Complete plunger assembly	225320 + seal material

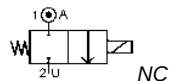
OVERALL DIMENSIONS



Model	PU22003	PU22004A	PU22006A	PU22008A
Port R	3/8	1/2	3/4	1
A	66.5	66.5	71.0	96.0
B	101.0	101.0	107.0	120.5
C	48.0	48.0	58.0	70.0
Kg	0.74	0.715	0.945	1.485



Media: air – water – gas – light oil – vacuum
 Pressure range: 0 to 20 Bar max
 Media temperature: -40°C to +80°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 40 centistokes max
 Mounting: any position
 Weight (including coil): 175 g, 255g, 475g
 Opening or Closing time: 20 mSec Max



2/2 Brass

1/8 – 3/8

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 20 Bar

TYPE PU220AR®



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Coil	Pressure Rating (Bar)			Seals	Max Media Temp °C	Part Number	
				Min	AC Max	DC Max				
1/8	1.5	1.2	22001	0	8.5	7	NBR EPDM FKM	80 160 130	PU22001A + voltage PU22001AE + voltage PU22001AV + voltage	
	0.8	0.5	22001	0	20	13	NBR EPDM FKM	80 160 130	PU220011A + voltage PU220011AE + voltage PU220011AV + voltage	
	1.2	0.7	22001	0	16	10	NBR EPDM FKM	80 160 130	PU220012A + voltage PU220012AE + voltage PU220012AV + voltage	
1/4	2.3	2.0	22001	0	8.5	7	NBR EPDM FKM	80 160 130	PU22002A + voltage PU22002AE + voltage PU22002AV + voltage	
	1.2	0.7	22001	0	20	13	NBR EPDM FKM	80 160 130	PU220021A + voltage PU220021AE + voltage PU220021AV + voltage	
	1.5	1.2	22001	0	16	10	NBR EPDM FKM	80 160 130	PU220022A + voltage PU220022AE + voltage PU220022AV + voltage	
3/8	8.0	19.0	22003	0.1	10	7	NBR EPDM FKM	80 160 130	PU22003A + voltage PU22003AE + voltage PU22003AV + voltage	
	8.0	19.0	22005	0.1	16	16	NBR EPDM FKM	80 160 130	PU22003A + voltage + 18W PU22003AE + voltage + 18W PU22003AV + voltage + 18W	

OPTIONS

IP65 Coil & Connector PG9 – (DIN 43650 B 1/8 & 1/4 Ports) (DIN 43650A 3/8 Port)

ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C

NPT thread

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 110 - 230 (50 or 60 Hz)	22001	11.6 VA	8.5 VA	F 155°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 - 24 - 48(DC)		4.5 Watts				
~	12 – 24 – 48 – 110 – 230 -380 (50/60 Hz)	22003	23VA	17VA	H 180°C		
=	12 - 24 - 48 (DC)		15 watts				
~	24 - 48 - 110 - 230 (50/60 Hz)	22005	33VA	24VA			
=	12 - 24 - 48 - 110 - 220 (DC)		18.5 Watts				

CONSTRUCTION

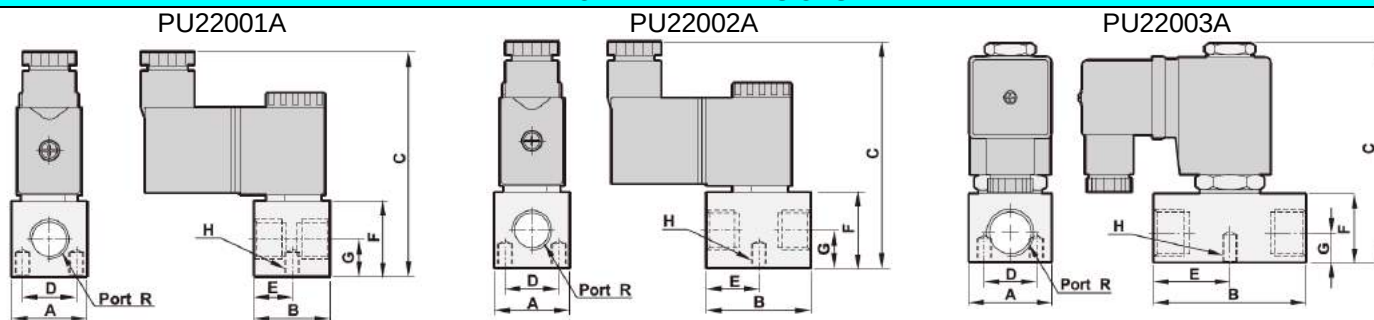
Body: Brass, Tube and internal parts: stainless steel

Seals and gaskets: NBR (Optional EPDM, FKM or HNBR), Moulded Coil: ThermoSet Resin

REPAIR KIT

Coil	Coil size (22001 or 22003 or 22005) + voltage
Complete plunger assembly	Coil size + seal material

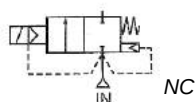
OVERALL DIMENSIONS



Model	R	A	B	C	D	E	F	G	H
PU22001	1/8	22	22	72	15	11	22	7.5	M4xP0.7xL6.5
PU22002	1/4	25.4	35	75	18	17.5	25.4	12.7	M5xP0.8xL7.0
PU22003	3/8	30	55	79	18	27.5	25	11	M5xP0.8xL7.0

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Media: air – water – light oil - vacuum
 Pressure range: 0 to 10 Bar max
 Media temperature: +90°C max
 Ambient temperature: -20°C to +60°C max
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing Time: 50 mSec Max



2/2 Brass WRAS

3/8 – 1

NORMALLY CLOSED

2 WAY ZERO RATED

0 – 10 Bar

TYPE PU220D



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/min	Pressure Rating (Bar) ΔP			Max Working Pressure	Part Number	
			Min	AC	DC	DC		
				15 Watt	15 Watt	18.5 Watt		
3/8	13	59	0	7	6	-	10	PU220D-03A + voltage
1/2	13	59	0	7	6	-	10	PU220D-04A + voltage
3/4	20	125.5	0	7	5	-	10	PU220D-06A + voltage
1	25	170.5	0	7	5	-	10	PU220D-08A + voltage
3/8	13	59	0	10	-	10	10	PU220D-03A + voltage + 18.5W
1/2	13	59	0	10	-	10	10	PU220D-04A + voltage + 18.5W
3/4	20	125.5	0	10	-	10	10	PU220D-06A + voltage + 18.5W
1	25	170.5	0	10	-	10	10	PU220D-08A + voltage + 18.5W

OPTIONS

22003 IP65 CE Approved Coil & Connector PG9 – DIN 43650 A Connector
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Max ΔP 3 Bar)
 22005 18.5 Watt high power coil for 7 bar DC
 NPT Thread

Included

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12-24-48-110-240-380 (50/60 Hz)	22003	23VA	17VA	H 180°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 - 24 - 48 - 110 - 220 (DC)		15 Watts				
=	12 - 24 - 48 - 110 - 220 (DC)	22005	18.5 Watts				

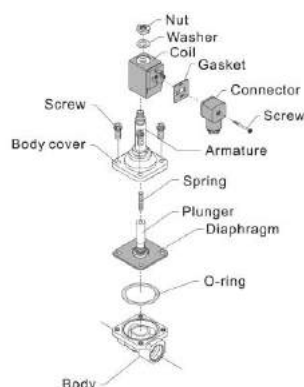
CONSTRUCTION

Body: Brass
 Tube and internal parts: Stainless steel
 Seals and gaskets: EPDM WRAS Certified
 Nass Magnet Moulded coil: ThermoSet Resin
 WRAS certified and pressure tested to 10.5 bar 90°C hot and cold water 200,000 cycles. Approval no 1704353

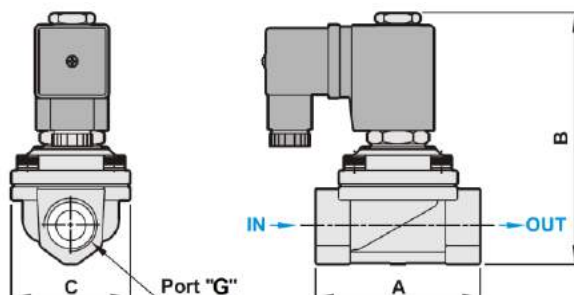
REPAIR KIT

Diaphragm seal	PU220D + port + diaphragm
Coil	22003 or 22005 + voltage
Complete plunger assembly	PU220D - armature

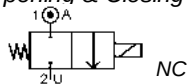
OVERALL DIMENSIONS



Model	PU22003	PU22004A	PU22006A	PU22008A
Port R	3/8	1/2	3/4	1
A	66.5	66.5	71.0	96.0
B	101.0	101.0	107.0	120.5
C	48.0	48.0	58.0	70.0
Kg	0.74	0.715	0.945	1.485



Media: vacuum - air - water - light oil
 Pressure range: 0 to 200 Bar max
 Media temperature: -10°C +100°C max
 Ambient temperature: -20° to +50°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Weight 450g
 Opening & Closing time: 20mSec Max



2/2 Brass

1/8 – 1/4

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 200 Bar

TYPE W



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (Bar)		Seals	Part Number	
			Min	Max			
1/8 or 1/4	0.6	0.2	0	200	NBR FKM EPDM	W0.6 + seal + port + voltage	
	0.8	0.3	0	120		W0.8 + seal + port + voltage	
	1.0	0.5	0	50		W1.0 + seal + port + voltage	
	1.2	0.67	0	40		W1.2 + seal + port + voltage	
	1.5	0.95	0	30		W1.5 + seal + port + voltage	
	2.0	1.6	0	20		W2.0 + seal + port + voltage	
	2.5	2.3	0	13		W2.5 + seal + port + voltage	
	3.0	3.0	0	10		W3.0 + seal + port + voltage	
	4.0	5.0	0	5		W4.0 + seal + port + voltage	
	5	7	0	3		W5.0 + seal + port + voltage	
	6	9.7	0	2		W6.0 + seal + port + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 NPT Thread 1/8 or 1/4
 High Temperature coil
 PTFE Seals
 Explosion Proof Enclosure ATEX II 2 G/D EExdIICT6, IP65 85°C (Ambient T° from -20°C to +40°C)

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12 - 24 - 48 - 110 - 230 (50 or 60 Hz)	10065	48VA	24VA	F 155°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 - 24 - 48 - 190 (DC)		14 - 20 Watts				

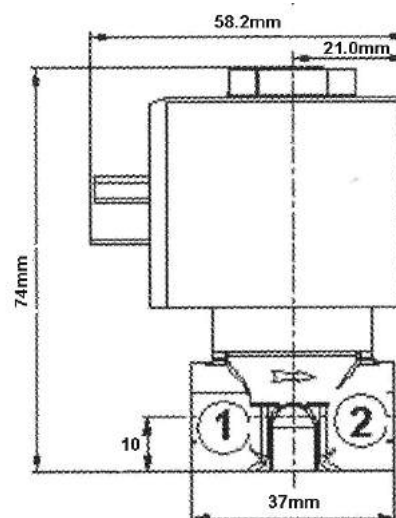
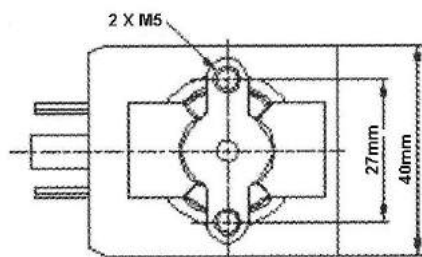
CONSTRUCTION

Body: Brass
 Tube and internal parts: Stainless steel
 Seals and gaskets: NBR (Optional EPDM & FKM & PTFE)
 Moulded coil: Resin

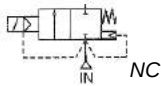
REPAIR KIT

Coil	10065 + voltage
Complete plunger	KIT + valve part number

OVERALL DIMENSIONS



Media: air, water, fluid, gas
 Pressure range: 0.3 to 16 Bar max*
 Media temperature: -5°C to +100°C
 Ambient temperature: 0°C to +60°C
 Media viscosity: 50 centistokes max
 Cycle life: 500,000 cycles
 Opening / Closing Time: 3 – 5 Sec



2/2 Bronze

DN50 – DN300

NORMALLY CLOSED

2 WAY SERVO ASSISTED

0.3 – 16* Bar

TYPE BFE-B



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) *FKM (100°C)	BFE50B + seal + voltage		
DN65	65	85	0.3	10*		BFE65B + seal + voltage		
DN80	80	110	0.3	10*		BFE80B + seal + voltage		
DN100	100	150	0.3	10*		BFE100B + seal + voltage		
DN125	125	230	0.3	10*		BFE125B + seal + voltage		
DN150	150	450	0.3	10*		BFE150B + seal + voltage		
DN200	200	580	0.3	10*		BFE200B + seal + voltage		
DN250	250	910	0.3	10*		BFE250B + seal + voltage		
DN300	300	1300	0.3	10*		BFE300B + seal + voltage		

OPTIONS

IP65 Coil & Connector PG11 – DIN 43650 A
 Manual Over ride lever valve
 *16 Bar rated solenoid controller with M17 high power coil
 ATEX EExmIIT4 II 2G & 2D IP65 T130°C coil. 
 Other flange options JIS10K, JIS20K, ANSI150Lb
 Other custom flange types, sizes, seals and media applications 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 43650A DIN40050 VDE0110
=	12 - 24		16 Watts				
~	110 – 230 (50 or 60 Hz)	*M17	35VA	26VA	N 200°C		
=	24		19 Watts				

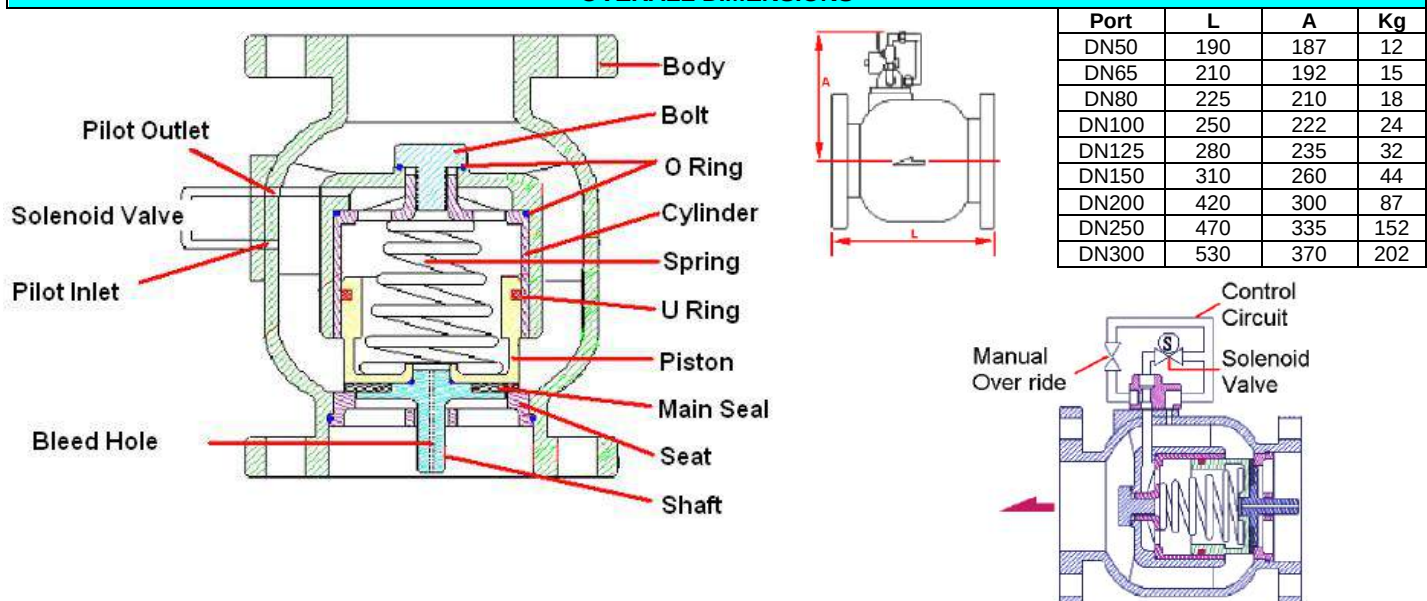
CONSTRUCTION

Body: Bronze (Pressure tested to 21 bar)
 Piston, Seat & Shaft: Bronze
 Bolts: Brass
 Spring: Stainless steel
 Ports: Flanged PN16 RF
 Seals and gaskets: NBR (+80°C) or Viton (+100°C)
 Control pipe work circuit & fittings: Copper & Brass

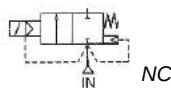
REPAIR KIT

Piston U Ring Seal	SP + Valve Part Number – PISTON U RING
External Control Pipework + Solenoid	BFE-NC + seal - PIPEWORK + voltage

OVERALL DIMENSIONS



Media: Air, Water, Gas or Liquid
 Pressure range: 0.3 to 16 bar max*
 Media temperature: -5°C to +100°C
 Ambient temperature: 0°C to +60°C
 Media viscosity: 50 centistokes max
 Cycle life: 500,000 cycles
 Opening / Closing Time: 3 – 5 Sec



2/2 Ductile Iron

DN50 – DN500

2 WAY NORMALLY CLOSED

SERVO ASSISTED

0.3 – 16* Bar

TYPE BFE-DE



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) FKM (100°C)	BFE50D + seal + voltage		
DN65	65	85	0.3	10*		BFE65D + seal + voltage		
DN80	80	110	0.3	10*		BFE80D + seal + voltage		
DN100	100	150	0.3	10*		BFE100D + seal + voltage		
DN125	125	230	0.3	10*		BFE125D + seal + voltage		
DN150	150	450	0.3	10*		BFE150D + seal + voltage		
DN200	200	580	0.3	10*		BFE200D + seal + voltage		
DN250	250	910	0.3	10*		BFE250D + seal + voltage		
DN300	300	1300	0.3	10*		BFE300D + seal + voltage		
DN350	350	1800	0.3	10		BFE350D + seal + voltage		
DN400	400	2300	0.3	10		BFE400D + seal + voltage		
DN450	450		0.3	10		BFE450D + seal + voltage		
DN500	500		0.3	10		BFE500D + seal + voltage		

OPTIONS

IP65 Coil & Connector PG11 – DIN 43650 A
 Manual Over ride lever valve
 *16 Bar rated solenoid controller and pipework with M17 high power coil
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C
 Flange options JIS10K, JIS20K, ANSI150Lb
 Other custom flanges, larger sizes, seals, media and pressures 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 43650A DIN 40050 VDE 0110
=	12 – 24 – 48 - 125		26 Watts				
~	110 – 230 (50 or 60 Hz)	*M17	35VA	26VA	N 200°C		
=	24		19 Watts				

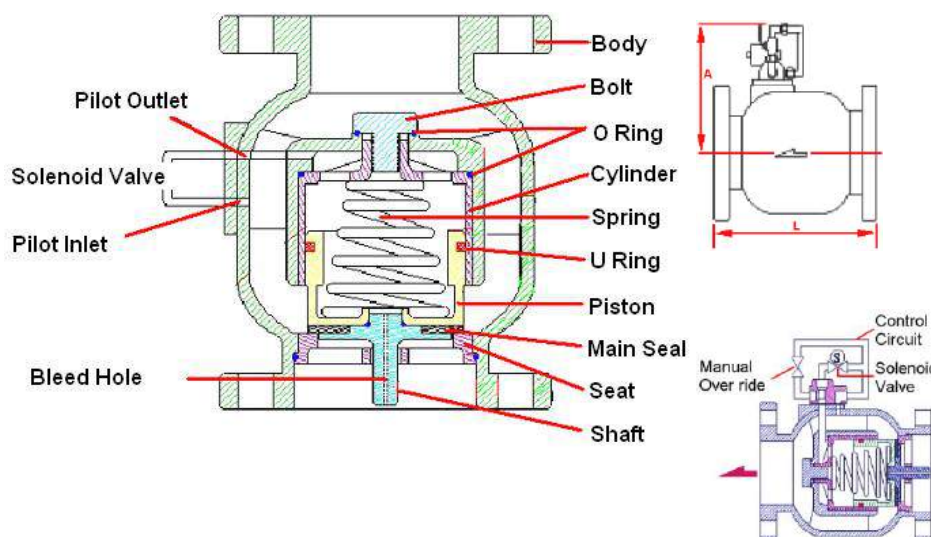
CONSTRUCTION

Body: Ductile Iron with Epoxy Coating (Pressure tested to 16 bar)
 Piston, Seat & Shaft: Bronze
 Bolts: Brass
 Spring: Stainless steel
 Ports: Flanged PN16 RF
 Seals and gaskets: NBR (+80°C max), Viton (+100°C max)
 Control pipe work circuit & fittings: Copper & Brass

REPAIR KIT

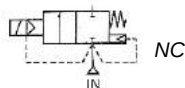
Piston U Ring seal	SP + Valve Part Number – PISTON U RING
External Control Pipework + Solenoid	BFE - NC + seal – PIPEWORK + voltage

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
DN350	600	415	285
DN400	600		
DN450	750		
DN500	750		

Media: air – water – gas – light oil
 Pressure range: 0.5 to 15 Bar max
 Media temperature: -40°C +160°C max
 Ambient temperature: -20°C to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing time: 50 mSec Max



2/2 Brass

3/8 – 3"

NORMALLY CLOSED

2 WAY SERVO ASSISTED

0.5 – 15 Bar

TYPE PU225®



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Coil	Pressure Rating (Bar) ΔP		Max Working	Seals	Max Media Temp. °C	Part Number	
		Kv Ltr/ min		Min	Max					
3/8	13	40.0	22003	0.5	10	15	NBR FKM EPDM	80 130 160	PU22503 + voltage PU22503V + voltage PU22503E + voltage	
1/2	13	40.0	22003	0.5	10	15	NBR FKM EPDM	80 130 160	PU22504A + voltage PU22504AV + voltage PU22504AE + voltage	
3/4	25	165.0	22003	0.5	10	15	NBR FKM EPDM	80 130 160	PU22506A + voltage PU22506AV + voltage PU22506AE + voltage	
1	25	165.0	22003	0.5	10	15	NBR FKM EPDM	80 130 160	PU22508A + voltage PU22508AV + voltage PU22508AE + voltage	
1 1/4	38	367	22003	0.5	10	15	NBR FKM EPDM	80 130 160	PU22512A + voltage PU22512AV + voltage PU22512AE + voltage	
1 1/2	38	500	22003	0.5	10	15	NBR FKM EPDM	80 130 160	PU22514A + voltage PU22514AV + voltage PU22514AE + voltage	
2	50	600	22003	0.5	10	15	NBR FKM EPDM	80 130 160	PU22520A + voltage PU22520AV + voltage PU22520AE + voltage	
2 1/2	65	1050	16W	0.3	10	15	NBR FKM EPDM	80 140 120	PU22524A + voltage PU22524AV + voltage PU22524AE + voltage	
3	80	1380	16W	0.3	10	15	NBR FKM EPDM	80 140 120	PU22528A + voltage PU22528AV + voltage PU22528AE + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A

NPT Thread (Not available 2 1/2" & 3")

ATEX EExmII T II 2G & 2D IP65 T130°C

Explosion proof enclosure ATEX II 2 G/D EExdIICT6 IP65 +85°C

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 43650A DIN 40050 VDE 0110
=	12 – 24 – 48 -110- 220 (DC)		15 Watts				
~	24-48-110-230 (50/60 Hz)	16W	25VA	15VA	F 155°C		
=	12 – 24 – 48 (DC)		16 Watts				

CONSTRUCTION

Body: Forged Brass SS41, Tube and internal parts: Stainless steel

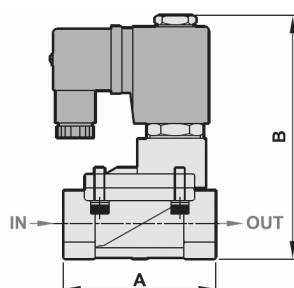
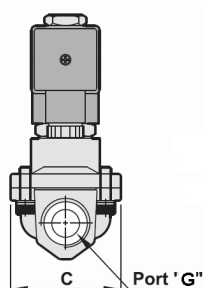
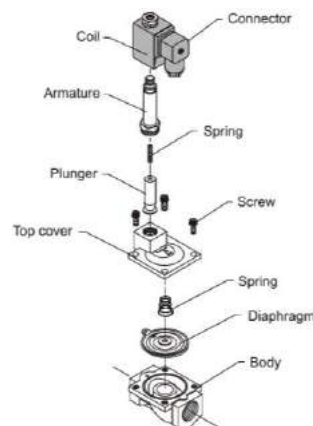
Seals and gaskets: NBR (Optional EPDM, FKM & HNBR)

Moulded coil: 16 W Resin / 22003 DuroPlast ThermoSet Resin

REPAIR KIT

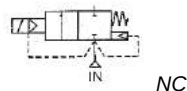
Diaphragm Seal	225 + Size code (03-28) + seal material
Coil	Coil type (22003 or 16W) + voltage
Armature assembly (Normally Closed)	225320VNC

OVERALL DIMENSIONS



Port	A	B	C	Kg
3/8 1/2	66.5	106.5	48	0.725
3/4 1	96	126.5	70	1.565
1 1/4 1 1/2	131	145.5	96	2.56
2	130	160.5	112	3.9
2 1/2	245	186	184	9.5
3	250	196	184	11.23

Media: air – water – gas – fluid
 Pressure range: 0.5 to 15 Bar max
 Media temperature: -40°C to +160°C max
 Ambient temp: -20° to +60° C max
 Media viscosity: 50 centistokes
 Mounting: coil upright
 Opening / Closing: 50 mSec Max



2/2 Brass Flanged

DN10 – DN50
 NORMALLY CLOSED
 2 WAY SERVO ASSISTED
 0.5 – 15 Bar
 TYPE PU225F®



PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow	Pressure Rating (Bar) ΔP		Max Working	Seals	Max Media Temp. °C	Part Number	
		Kv Ltr/ min	Min	Max					
DN10	13	40	0.5	10	15	NBR FKM EPDM	80 130 160	PU22503F4 + voltage PU22503F4V + voltage PU22503F4E + voltage	
DN15	13	40	0.5	10	15	NBR FKM EPDM	80 130 160	PU22504F4 + voltage PU22504F4V + voltage PU22504F4E + voltage	
DN20	25	165	0.5	10	15	NBR FKM EPDM	80 130 160	PU22506F4 + voltage PU22506F4V + voltage PU22506F4E + voltage	
DN25	25	165	0.5	10	15	NBR FKM EPDM	80 130 160	PU22508F4 + voltage PU22508F4V + voltage PU22508F4E + voltage	
DN32	40	450	0.5	10	15	NBR FKM EPDM	80 130 160	PU22512F4 + voltage PU22512F4V + voltage PU22512F4E + voltage	
DN40	40	450	0.5	10	15	NBR FKM EPDM	80 130 160	PU22514F4 + voltage PU22514F4V + voltage PU22514F4E + voltage	
DN50	50	600	0.5	10	15	NBR FKM EPDM	80 130 160	PU22520F4 + voltage PU22520F4V + voltage PU22520F4E + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 ATEX 22003EX Coil: ATEX EExmII T4 II 2G & 2D IP65 T130°C
 Explosion Proof Enclosure: EExdIIC T6 ATEX II 2 G/D IP65 (Custom made)
 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 43650A DIN 40050 VDE 0110
=	12 - 24 – 48-110-220 (DC)		15 Watts				

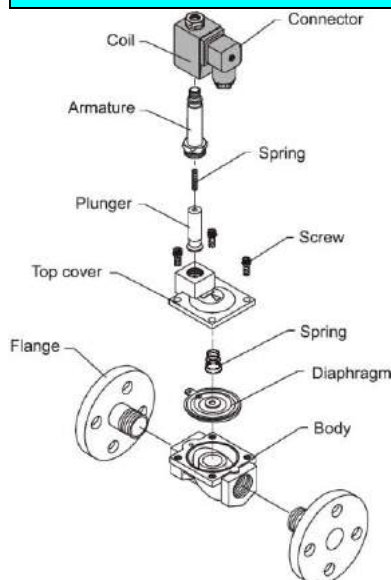
CONSTRUCTION

Body: Forged Brass SS41, Flanges: Stainless steel, Tube and internal parts: Stainless steel
 Seals and gaskets: NBR (Optional EPDM, FKM or HNBR)
 Moulded coil: DuroPlast / ThermoSet Resin

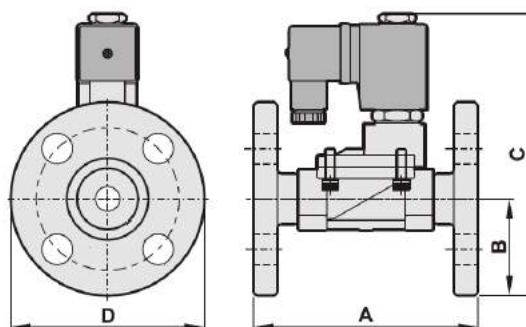
REPAIR KIT

Diaphragm seals	225 + size code (03-20) + material
Coil	22003 + voltage
Complete armature assembly	225320NC + seal material

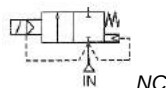
OVERALL DIMENSIONS



Model	PU225 03F	PU225 04F	PU225 06F	PU225 08F	PU225 12F	PU225 14F	PU225 20F
Flange	3/8	1/2	3/4	1	1 1/4	1 1/2	2
A	110.0	110.0	120.0	150.0	180.0	180.0	210.0
B	45.0	47.5	50.0	62.5	67.5	70.0	77.5
C	136.0	138.5	157.5	165.5	173.0	182.5	209.5
Kg	2.13	2.1	2.43	2.41	3.34	3.32	7.55



Media: air – water – gas – light oil
 Pressure range: 0.5 to 25 Bar max
 Media temperature: -10°C to +90°C max
 Ambient temperature: -10° to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing time: 50 mSec Max



2/2 Brass

3/8 - 1

NORMALLY CLOSED

2 WAY SERVO ASSISTED

0.5 – 25 Bar

TYPE PU225H®



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (Bar) ΔP		Seals	Part Number	
			Min	Max			
3/8	8	19.0	0.5	25	NBR	PU225HB03 + voltage	
					EPDM	PU225HE03 + voltage	
					FKM	PU225HV03 + voltage	
1/2	8	19.0	0.5	25	NBR	PU225HB04A + voltage	
					EPDM	PU225HE04A + voltage	
					FKM	PU225HV04A + voltage	
3/4	13	40.0	0.5	25	NBR	PU225HB06A + voltage	
					EPDM	PU225HE06A + voltage	
					FKM	PU225HV06A + voltage	
1	13	40.0	0.5	25	NBR	PU225HB08A + voltage	
					EPDM	PU225HE08A + voltage	
					FKM	PU225HV08A + voltage	

OPTIONS

IP65 Coil & Connector PG9 DIN 43650 AI
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C
 NPT Thread

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 43650A DIN 40050 VDE 0110
=	12-24-48-110-220 (DC)		15 Watts				

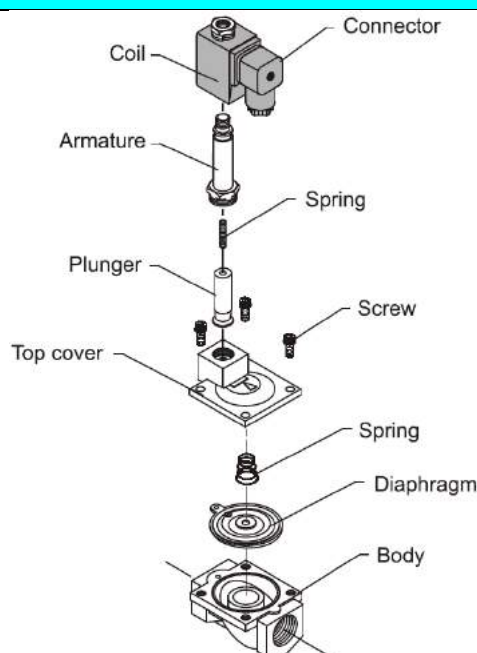
CONSTRUCTION

Body: Forged Brass SS41 (Test Pressure 30 Bar)
 Tube and Internal Parts: Stainless steel
 Diaphragm: Nylon reinforced EPDM

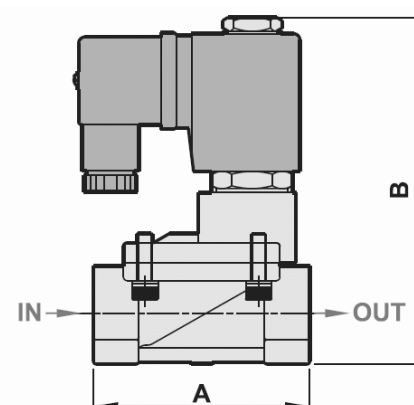
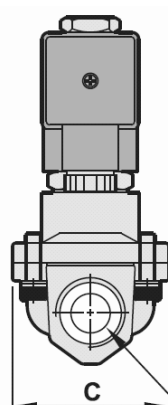
REPAIR KIT

Diaphragm Seal	225H + size code (03-08) + seal material
Coil	22003 + voltage
Armature assembly	225320VNC + seal material

OVERALL DIMENSIONS

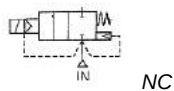


Model	PU225H03	PU225H04	PU225H06	PU225H08
Port	3/8	1/2	3/4	1
A	66.5	66.5	96.0	96.0
B	106.5	106.5	126.5	126.5
C	48	48	70	70
Kg	0.775	0.755	1.55	1.5



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Media: air – water – light oil- gas - fluid
 Pressure range: 0.5 to 50 Bar
 Media temperature: -10 °C to +90 °C Max
 Ambient temperature: -10 °C to +60 °C
 Media viscosity: 50 centistokes max
 Mounting: Coil upright
 Opening/Closing time: 500 mSec Max



2/2 Brass

3/8 – 1

NORMALLY CLOSED

2 WAY SERVO ASSISTED

0.5 – 50 Bar

TYPE PU225X®



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (Bar) ΔP		Part Number	
			Min	Max		
3/8	13	75	0.5	50	PU225X03 + voltage	
1/2	13	75	0.5	50	PU225X04 + voltage	
3/4	25	200	0.5	50	PU225X06 + voltage	
1	25	200	0.5	50	PU225X08 + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C 
 NPT Thread
 Other custom made options available upon request

ELECTRICAL DATA

Voltage (-10% + 10%) Duty rating 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				

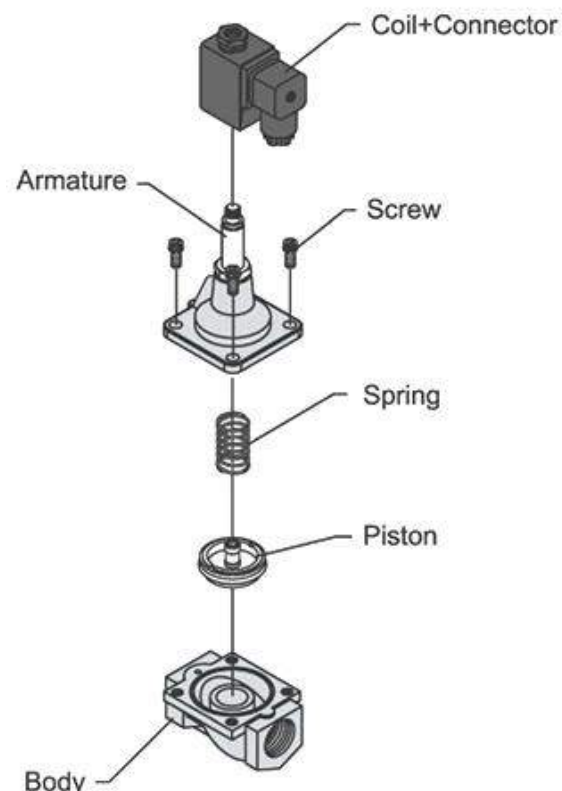
CONSTRUCTION

Body: Forged Brass
 Tube, Piston and internal parts: Stainless steel
 Seals and gaskets: PTFE + NBR
 Moulded coil: Resin
 Test Pressure: 75 bar

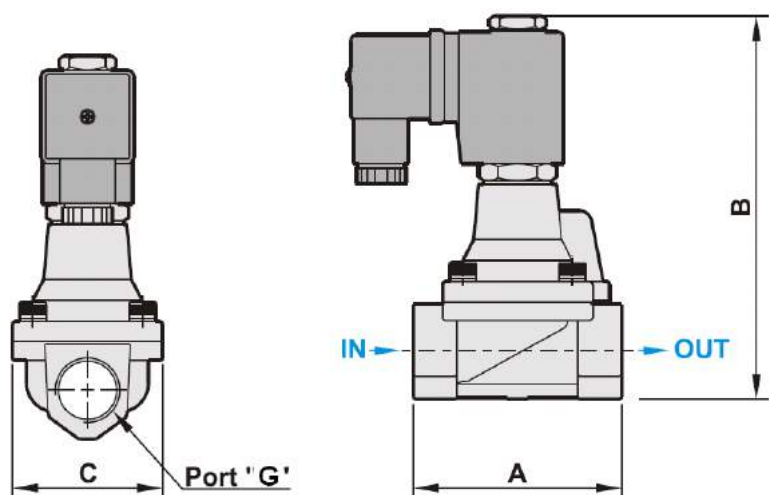
REPAIR KIT

Coil	22003 + Voltage
Complete Armature assembly	SP + Valve Part Number -ARMATURE
Piston Set	SP + Valve Part Number -PISTON

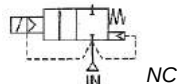
OVERALL DIMENSIONS



Model	Port	A	B	C	Kg
PU225X03	3/8	66.5	106.5	48	0.86
PU225X04	1/2	66.5	106.5	48	0.84
PU225X06	3/4	100	126.5	70	1.8
PU225X08	1	100	126.5	70	1.75



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



2/2 Brass

3/8 – 2

NORMALLY CLOSED

2 WAY SERVO ASSISTED

0.5 – 40, 80 & 120 Bar

TYPE SAH 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	40	SA14H + voltage
1/2	15	75	0.5	12	40	SA15H + voltage
3/4	20	155	0.5	12	40	SA20H + voltage
1	25	220	0.5	12	40	SA25H + voltage
1 1/4	35	433	0.5	12	40	SA35H + voltage
1 1/2	35	433	0.5	12	40	SA40H + voltage
2	50	800	0.5	12	40	SA50H + voltage
3/8	15	75	0.5	12	80	SA14HH + voltage
1/2	15	75	0.5	12	80	SA15HH + voltage
3/4	20	155	0.5	12	80	SA20HH + voltage
1	25	220	0.5	12	80	SA25HH + voltage
1 1/4	35	433	0.5	12	80	SA35HH + voltage
1 1/2	35	433	0.5	12	80	SA40HH + voltage
2	50	800	0.5	12	80	SA50HH + voltage

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA approved Coil + IP65 LED Connector PG11 DIN43650A

NPT Thread

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Custom Made 25 Bar Max)

120 Bar SAHHH (2x SAHH 80 Bar price)

ELECTRICAL DATA

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

CONSTRUCTION

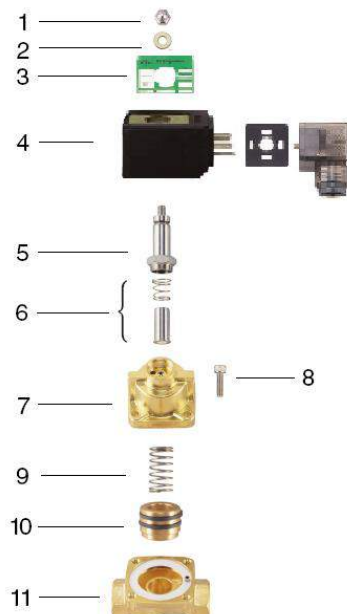
Body: Brass, Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless steel

Seals and gaskets: PTFE, Moulded coil: Resin

REPAIR KIT

Coil	WPG2 + voltage
Piston	SP210 + Valve Part Number

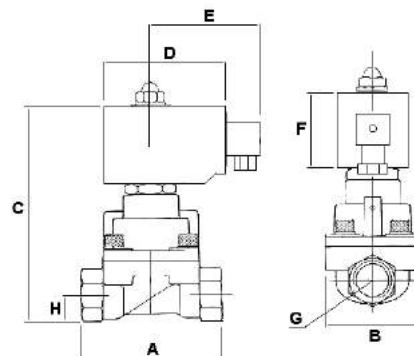
OVERALL DIMENSIONS



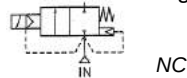
Model	A	B	C	D	E	F	G	H	Kg
SA14	67	48	123	67	52	42	1/2	15	1.1
SA15	67	48	123	67	52	42	1/2	15	1.1
SAH20	96	72	149	67	52	42	3/4	25	1.53
SAH25	96	72	149	67	52	42	1	25	1.85
SA35	120	90	168	52	45	41	1 1/4	33	3.3
SA40	120	90	168	52	45	41	1 1/2	33	3.25
SA50	150	122	203	52	45	41	2	40.5	6.8

Item	Part No:	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Name Plate
4	WPG2-*	Coil
5	SP205-*	Core Tube
6	SP206-*	Armature Core
7	SP207-*	Valve Bonnet
8	SP208-*	Bolt
9	SP209-*	Piston Spring
10	SP210-*	Piston
11	SP211-*	Valve Body

-* = Model Number



Media: air – water – gas – light oil
 Pressure range: 1 to 100 Bar max
 Media temperature: -30°C +120°C max
 Ambient temperature: -20°C to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Weight: 660g
 Opening / Closing time: 100 mSec Max



2/2 Brass

1/8 – 3/8

NORMALLY CLOSED

2 WAY SERVO ASSISTED

1 – 100 Bar

TYPE SAP



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Pressure Rating (Bar) ΔP		Part Number
		Kv Ltr/ min	Min	Max	
1/8	5.0	7.2	1	100	SAP6150 + voltage
1/4	5.0	7.2	1	100	SAP8150 + voltage
3/8	5.0	7.2	1	100	SAP10150 + voltage

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 – DIN 43650 A
 EPDM, NBR, SILICONE, VST, CR, ECO, HNBR and Hypalon seals (40 Bar Max)
 NPT Thread
 Silver Shading Ring
 Other custom made options available upon request

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 48 - 110 - 230 (50 or 60 Hz)	WPG2	18.7VA	15.3VA	H 180°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 – 24 - 48 (DC)		18 Watts				

CONSTRUCTION

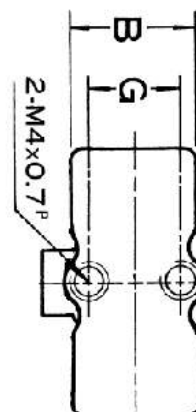
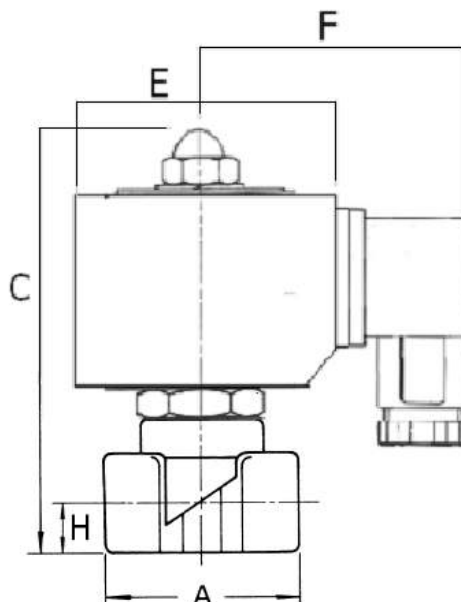
Body: Brass
 Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless steel
 Seals and gaskets: PTFE (Optional EPDM, NBR, SILICONE, VST, CR, ECO, HNBR and Hypalon)
 Moulded coil: Resin

REPAIR KIT

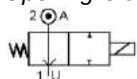
Coil	WPG2 + voltage
Complete plunger + O' ring Assembly	SP210 + Valve Part Number

OVERALL DIMENSIONS

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



Media: air – water – gas – light oil - vacuum
 Pressure range: 0 to 20 Bar max
 Media temperature: 100°C max
 Ambient temperature: -10° to +50°C max
 Media viscosity: 40 centistokes max
 Mounting: any position
 Weight (including coil): 300 g
 Opening Closing time: 20 mSec Max



NO

2/2 Brass

1/8 – 1/4

NORMALLY OPEN

2 WAY DIRECT ACTING

0 – 20 Bar

TYPE 200201NO



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv L/min	Pressure Rating (Bar)			Part Number
			Min	AC Max 10 Watt Coil	DC Max 18 Watt Coil	
1/8	1.5	0.65	0	20	20	215201 + seal + 0180 + voltage
	2	1	0	16	16	220201 + seal + 0180 + voltage
	2.5	1.4	0	12	12	225201 + seal + 0180 + voltage
	3.5	2.1	0	5	5	235201 + seal + 0180 + voltage
1/4	1.5	1.2	0	20	20	215201 + seal + 0140 + voltage
	2	1.5	0	16	16	220201 + seal + 0140 + voltage
	2.5	2.2	0	12	12	225201 + seal + 0140 + voltage
	3.5	4.9	0	5	5	235201 + seal + 0140 + voltage
	4.5	6.2	0	3	3	245201 + seal + 0140 + voltage
	5.2	7.9	0	1.5	1.5	252201 + seal + 0140 + voltage

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 High power 18 – 20 watt coil (higher DC pressure ratings)
 NPT Thread

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 48 - 110 - 230 (50 or 60 Hz)	11630	26 VA	14 VA	F 155°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 - 24 - 48 - 80 - 190 (DC)	11630	10 Watts				
		31400	14 – 20 Watts				

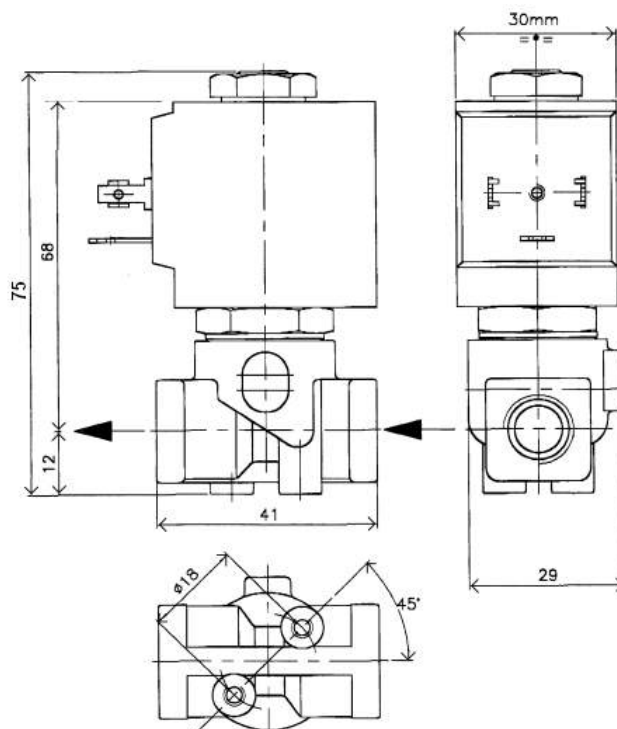
CONSTRUCTION

Body: Brass
 Tube and internal parts: 304 stainless steel, armature 430F stainless steel
 Seals and gaskets: NBR (Optional EPDM or FKM)
 Moulded coil: Resin

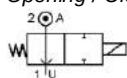
REPAIR KIT

Coil	Coil size (11630 or 31400) + voltage
Complete armature assembly	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS



Media: air – water – gas – light oil - vacuum
 Pressure range: 0 to 10 Bar max
 Media temperature: 120°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 50 centistokes max
 Mounting: any position
 Opening / Closing time: 20 mSec Max



NO

2/2 Brass

1/8 – 1/2

NORMALLY OPEN

2 WAY DIRECT ACTING

0 – 10 Bar

TYPE NOAD612



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Pressure Rating (Bar)			Seals	Part Number
		Kv Ltr/min	Min	Max AC	Max DC		
1/8	3.0	4	0	10	7	NBR +80°C SILICONE +120°C EPDM +120°C FKM +120°C *PTFE +120°C *VST +120°C	NOAD6A + seal + voltage
	4.0	9.7	0	6	4		NOAD6B + seal + voltage
	5.0	10.7	0	4	2.8		NOAD6C + seal + voltage
1/4	3.0	4.3	0	10	7		NOAD8A + seal + voltage
	4.0	9.7	0	6	4		NOAD8B + seal + voltage
	5.0	10.7	0	4	2.8		NOAD8C + seal + voltage
3/8	4.0	9.7	0	6	4		NOAD10A + seal + voltage
	6.0	13.2	0	2	1.4		NOAD10B + seal + voltage
1/2	6.0	13.2	0	2	1.4		NOAD12A + seal + voltage

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 – DIN 43650 A

* VST, CR, ECO, HNBR or Hypalon Seals

* PTFE seals 1/8 to 3/8

* PTFE seals 1/2

NPT Thread

Other custom made options available upon request

ELECTRICAL DATA

ELECTRICAL DATA							
Voltage (-10% + 15%) 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 43650A DIN 40050 VDE 0110
=	12 - 24 (DC)		18 Watts				

CONSTRUCTION

Body: Brass

Tube 304 stainless steel, armature 430F stainless steel

Shading ring: copper (optional Silver)

Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, PTFE, VST, CR, ECO, HNBR and Hypalon)

Moulded coil: Resin

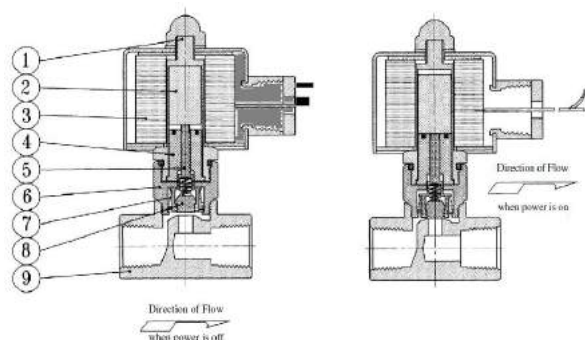
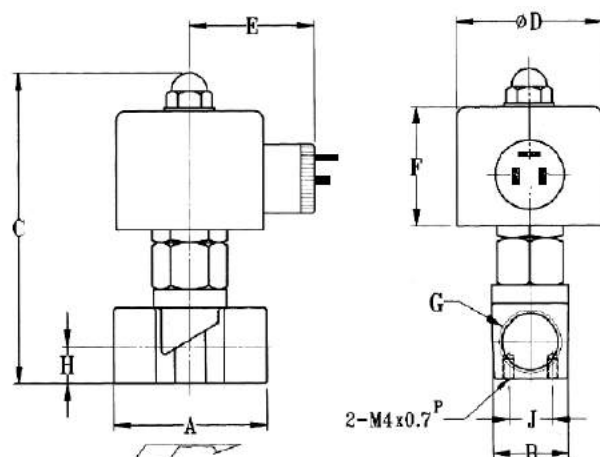
REPAIR KIT

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

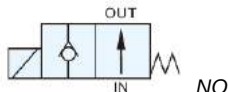
OVERALL DIMENSIONS

Model	A	B	C	D / E	F*	G	H	Kg
NOAD 6/8	41	19	108	40/65	38	15	10.5	0.52
NOAD 10	50	25	110	40/65	38	15	11.7	0.8
NOAD 12	55	27	112	40/65	38	-	13	0.95

Item	Article	Material
1	Solenoid Tube	Stainless
2	Slide Core	Stainless
3	Coil	Brass Wire
4	Armature Core	Stainless
5	Operating Spindle	Brass
6	Joint Sleeve	Stainless
7	Spring	Stainless
8	Seat	NBR, Silicone, EPDM, FKM
9	Valve Body	Forged Brass



Media: air – water – light oil - vacuum
 Pressure range: 0 to 7 or 12 Bar max
 Media temperature: -40°C to +150°C max
 Ambient temperature: -20°C to +60°C max
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing Time: 50 mSec Max



2/2 Brass

3/8 – 1"

NORMALLY OPEN

2 WAY ZERO RATED

0 - 7 or 0 - 12 Bar

TYPE NOPU220



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (Bar)				Seals	Max Media Temp. °C	Part Number	
			Min	AC Coil		DC Coil				
				15 Watt	18.5 Watt	18.5 Watt				
3/8	13	35	0	7			NBR FKM EPDM	80 120 150	NOPU22003 + voltage NOPU22003V + voltage NOPU22003E + voltage	
1/2	13	35	0	7			NBR FKM EPDM	80 120 150	NOPU22004A + voltage NOPU22004AV + voltage NOPU22004AE + voltage	
3/4	20	72	0	7			NBR FKM EPDM	80 120 150	NOPU22006A + voltage NOPU22006AV + voltage NOPU22006AE + voltage	
1	25	183	0	7			NBR FKM EPDM	80 120 150	NOPU22008A + voltage NOPU22008AV + voltage NOPU22008AE + voltage	
3/8	13	35	0		12	12	NBR FKM EPDM	80 120 150	NOPU22003 + voltage +18W NOPU22003V + voltage+18W NOPU22003E + voltage+18W	
1/2	13	35	0		12	12	NBR FKM EPDM	80 120 150	NOPU22004A + voltage+18W NOPU22004AV + voltage+18W NOPU22004AE + voltage+18W	
3/4	20	72	0		12	12	NBR FKM EPDM	80 120 150	NOPU22006A + voltage+18W NOPU22006AV + voltage+18W NOPU22006AE + voltage+18W	
1	25	183	0		12	12	NBR FKM EPDM	80 120 150	NOPU22008A + voltage+18W NOPU22008AV + voltage+18W NOPU22008AE + voltage+18W	

OPTIONS

22003 IP65 CE Approved Coil & Connector PG9 – DIN 43650 A Connector
 ATEX 22003EX Coil: ATEX EExmII T II 2G & 2D IP65 T130°C (Max ΔP 3 Bar)
 NPT Thread
 Seals: NBR, (Optional FKM, EPDM or HNBR)

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12 - 24 - 48 - 110 - 240 - 380 (50/ 60 Hz)	22003	23VA	17VA	H 180°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 - 24 - 48 - 110 – 220 (DC)		15 Watts				
~	24 - 48 - 110 - 240 - 380 (50/ 60 Hz)	22005	33VA	24VA			
=	12 - 24 - 48 - 110 (DC)		18.5 Watts				

CONSTRUCTION

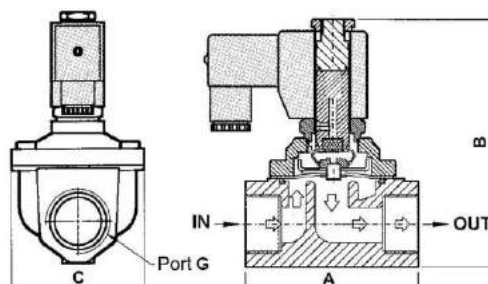
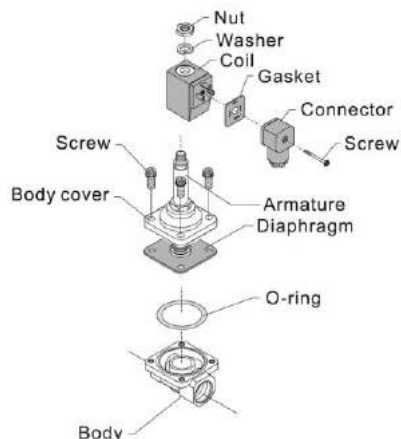
Body: Forged Brass SS41
 Tube and internal parts: Stainless steel
 Seals and gaskets: NBR (Optional EPDM, FKM or HNBR)
 Nass Magnet Moulded coil: DuroPlast / ThermoSet Resin

REPAIR KIT

Diaphragm seal	22004, 22006 or 22008 + seal material
Coil	Coil size (22003 or 22005) + voltage
Complete plunger assembly	225320 + seal material

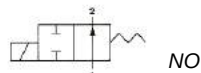
OVERALL DIMENSIONS

Model	NOPU22003	NOPU22004A	NOPU22006A	NOPU22008A
Port R	3/8	1/2	3/4	1
A	66.5	66.5	71.0	96.0
B	101.0	101.0	107.0	120.5
C	48.0	48.0	58.0	70.0
Kg	0.74	0.715	0.945	1.485



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Media: air – water – gas – light oil - vacuum
 Pressure range: 0 to 20 Bar max
 Media temperature: +120°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 50 centistokes max
 Mounting: any position
 Open or Close Time: 6-20 mSec Max



2/2 Brass

1/8 – 1/4

NORMALLY OPEN

2 WAY DIRECT ACTING

0 – 20 Bar

TYPE RB



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/min	Pressure Rating (Bar)		Seals	Part Number	
			Min	Max			
1/8	1.3	0.8	0	14	6 Watt Coil NBR FKM EPDM +80°C	RB031 + seal + voltage + 6W	
	1.5	1.5	0	10		RB032 + seal + voltage + 6W	
1/4	1.3	0.8	0	14		RB061 + seal + voltage + 6W	
	1.5	1.5	0	10		RB062 + seal + voltage + 6W	
1/8	1.3	0.8	0	20	6.8 Watt Coil NBR +90°C	RB031 + seal + voltage + 6.8W	
	1.5	1.5	0	15		RB032 + seal + voltage + 6.8W	
1/4	1.3	0.8	0	20	FKM +120°C	RB061 + seal + voltage + 6.8W	
	1.5	1.5	0	15	EPDM +120°C	RB062 + seal + voltage + 6.8W	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 Explosion Proof 22001EX Coil: EExmII T4 II ATEX IP65 T 135°C (Pressure rating 50% as 6.8 Watt coil)
 NPT Thread
 Stainless 316 body (RSXXX + seal + S1 + voltage + watt)

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12 -24 – 48 – 110 – 230 (50/60Hz)	822P5	15 VA	9.3 VA	F 155°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	24 – 48 – 110 – 240 (DC)		6 Watts				
~	24 - 48 - 110 - 230 (50/ 60Hz)	830P6	17 VA	10.5 VA			
=	12 - 24 (DC)		6.8 Watts				

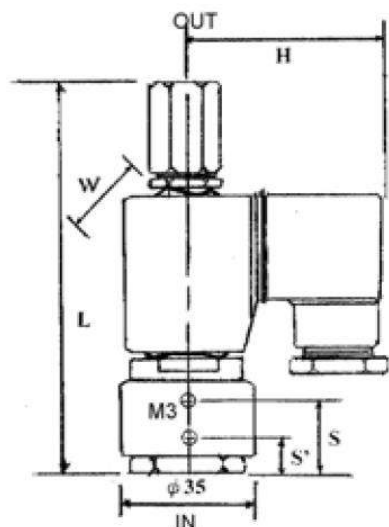
CONSTRUCTION

Body: Brass
 Tube and internal parts: Stainless steel
 Seals and gaskets: NBR or FKM or EPDM
 Moulded coil: Duroplast / Thermo set resin

REPAIR KIT

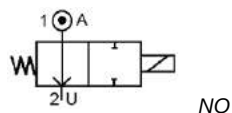
Coil	822P5 or 830P6 + voltage
Complete plunger + O 'rings	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS



	L	H	W	S	S'	Kg
RB03	70	55	22/30	-	-	0.2
RB06	70	55	22/30	-	-	0.2

Media: air – water – light oil – vacuum 10^{-3}
 Pressure range: 0 to 10 bar max
 Media temperature: 130° C max
 Ambient temperature: -5° to +60° C max
 Media viscosity: 20 centistokes max
 Mounting: coil upright



2/2 Brass

3/8 – 2"

NORMALLY OPEN

2 WAY ZERO RATED

0 – 10 Bar

TYPE UWNO



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/Min	Pressure Rating (bar) ΔP			Max Working	Seals	Max Media Temp. °C	Part Number	
			Min	Max DC	Max AC					
3/8	15	75	0	5	7	10	NBR FKM SILICONE	80 120 130	UW10NON + voltage UW10NOV + voltage UW10NOS + voltage	
1/2	15	75	0	5	7	10	NBR FKM SILICONE	80 120 130	UW15NON + voltage UW15NOV + voltage UW15NOS + voltage	
3/4	20	143	0	5	7	10	NBR FKM SILICONE	80 120 130	UW20NON + voltage UW20NOV + voltage UW20NOS + voltage	
1	25	200	0	5	7	10	NBR FKM SILICONE	80 120 130	UW25NON + voltage UW25NOV + voltage UW25NOS + voltage	
1 1/4	35	400	0	5	7	10	NBR FKM SILICONE	80 120 130	UW35NON + voltage UW35NOV + voltage UW35NOS + voltage	
1 1/2	40	460	0	5	7	10	NBR FKM SILICONE	80 120 130	UW40NON + voltage UW40NOV + voltage UW40NOS + voltage	
2	50	800	0	5	7	10	NBR FKM SILICONE	80 120 130	UW50NON + voltage UW50NOV + voltage UW50NOS + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 NPT + BSPT

ELECTRICAL DATA

Voltage (AC -10% + 10%) (DC -1% + 1%) Continuous duty 90%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	110 – 230 (50 or 60 Hz)	WPC2	60VA	36VA	H 180°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	24 (DC)		29 Watts				

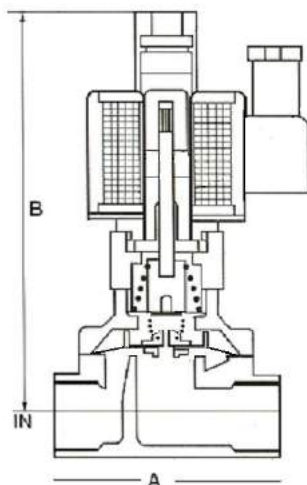
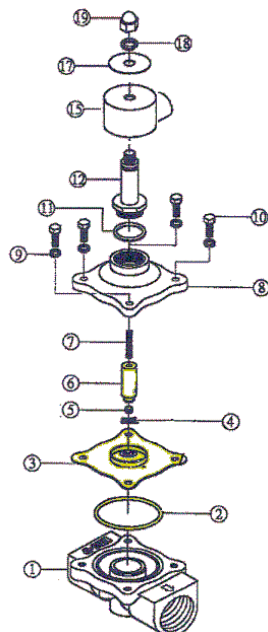
CONSTRUCTION

Body: up to 1" Forged Brass 1 1/4 – 2" Cast Bronze body
 Tube and internal parts: Stainless steel
 Seals and gaskets: NBR (Optional FKM or Silicone)
 Moulded coil: Resin

REPAIR KIT

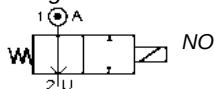
Diaphragm seal	UW + orifice + seal material
Coil	WPC2 + voltage
Armature assembly	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS



Model	UW10	UW15	UW20	UW25	UW35	UW40	UW50
Port R	3/8	1/2	3/4	1	1 1/4	1 1/2	2
A	70	70	73	93	125	125	167
B	126	132	139	154	156	175	175
Width	56.5	56.5	78	78	94	94	120
Kg	1.1	1.1	1.2	1.8	3.2	3.5	5.4

Media: air - water - light oil- vacuum
 Pressure range: 0 to 200 Bar max
 Media temperature: 100°C max
 Ambient temperature: -10° to +50°C max
 Media viscosity: 40 centistokes max
 Mounting: Vertical position coil up
 Weight (including coil): 500 g
 Opening or closing time: 20 m/sec max



2/2 Brass

1/8 – 1/4

NORMALLY OPEN

2 WAY DIRECT ACTING

0 – 200 Bar

TYPE WF



PRESSURE

Ø Port	Ø seat (mm)	Kv L/mn	Min	Pressure (Bar)	seals	Part Number	List Price
1/8 or 1/4 BSP	0.6	0.20	0	200	NBR FKM	WF0.6NBR + port + voltage WF0.6FKM + port + voltage	
	0.8	0.30	0	130	NBR FKM	WF0.8 NBR + port + voltage WF0.8 FKM + port + voltage	
	0.9	0.40	0	100	NBR FKM	WF0.9 NBR + port + voltage WF0.9 FKM + port + voltage	
	1	0.50	0	70	NBR FKM EPDM	WF1 NBR + port + voltage WF1 FKM + port + voltage WF1 EPDM + port + voltage	
	1,2	0.67	0	50	NBR FKM EPDM	WF1.2 NBR + port + voltage WF1.2 FKM + port + voltage WF1.2 EPDM + port + voltage	
	1,5	0.95	0	35	NBR FKM EPDM	WF1.5 NBR + port + voltage WF1.5 FKM + port + voltage WF1.5 EPDM + port + voltage	
	2	1.60	0	20	NBR FKM EPDM	WF2 NBR + port + voltage WF2 FKM + port + voltage WF2 EPDM + port + voltage	
	2,2	1.80	0	15	NBR FKM EPDM	WF2.2 NBR + port + voltage WF2.2 FKM + port + voltage WF2.2 EPDM + port + voltage	
	2,5	2.30	0	12	NBR FKM EPDM	WF2.5 NBR + port + voltage WF2.5 FKM + port + voltage WF2.5 EPDM + port + voltage	

OPTIONS

Connector DIN 43650 A & IP65 connector
 NPT thread

Seals and gaskets in PTFE

Explosion Proof Enclosure ATEX II 2 G/D EEx d IIC T6, IP65 85°C (Ambient T° from -20°C to +40°C)



ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24-48-110-230 (50 / 60 Hz)	31400	48 VA	24 VA	F 155°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12-24-48		14 W - 20 W				

CONSTRUCTION

Body, tube and internal parts: stainless steel

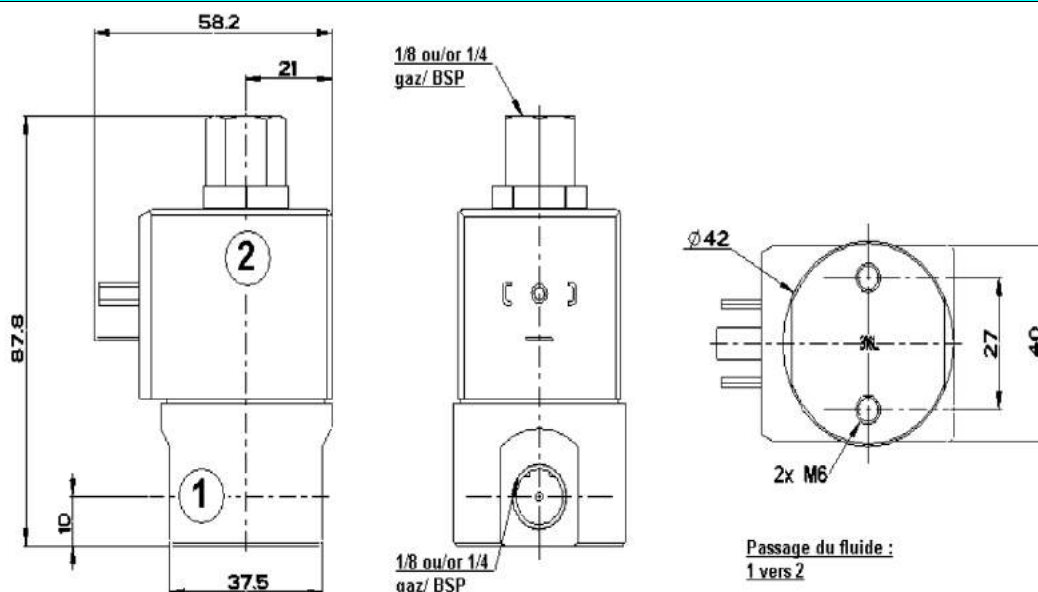
Seals and gaskets: NBR-FKM-EPDM

Moulded coil: resin

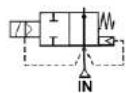
REPAIR KIT

Coil	10065 + voltage
Complete plunger	KIT + valve part number

OVERALL DIMENSIONS



Media: air – water – gas – light oil
 Pressure range: 0.5 to 15 Bar max
 Media temperature: -40°C to +90°C max
 Ambient temperature: -40°C to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing time: 50 mSec Max



NO

2/2 Brass

3/8 – 3"

NORMALLY OPEN

2 WAY SERVO ASSISTED

0.5 – 15 Bar

TYPE NOPU225®



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Coil	Pressure Rating (Bar) ΔP		Max Working	Seals	Max Media Temp. °C	Part Number	
				Min	Max					
3/8	13	40.0	22003	0.5	10	15	NBR FKM EPDM	80 120 120	NOPU22503 + voltage NOPU22503V + voltage NOPU22503E + voltage	
1/2	13	40.0	22003	0.5	10	15	NBR FKM EPDM	80 120 120	NOPU22504A + voltage NOPU22504AV + voltage NOPU22504AE + voltage	
3/4	25	165.0	22003	0.5	10	15	NBR FKM EPDM	80 120 120	NOPU22506A + voltage NOPU22506AV + voltage NOPU22506AE + voltage	
1	25	165.0	22003	0.5	10	15	NBR FKM EPDM	80 120 120	NOPU22508A + voltage NOPU22508AV + voltage NOPU22508AE + voltage	
1 1/4	38	367	22003	0.5	10	15	NBR FKM EPDM	80 120 120	NOPU22512A + voltage NOPU22512AV + voltage NOPU22512AE + voltage	
1 1/2	38	500	22003	0.5	10	15	NBR FKM EPDM	80 120 120	NOPU22514A + voltage NOPU22514AV + voltage NOPU22514AE + voltage	
2	50	600	22003	0.5	10	15	NBR FKM EPDM	80 120 120	NOPU22520A + voltage NOPU22520AV + voltage NOPU22520AE + voltage	
2 1/2	65	1050	16W	0.3	10	15	NBR FKM EPDM	80 120 120	NOPU22524A + voltage NOPU22524AV + voltage NOPU22524AE + voltage	
3	75	1380	16W	0.3	10	15	NBR FKM EPDM	80 120 120	NOPU22528A + voltage NOPU22528AV + voltage NOPU22528AE + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A

ATEX 22003EX Coil: ATEX EExmIT4 II 2G & 2D IP65 T130°C (21/2 + 3" Custom made)

NPT Thread (Not available 21/2 + 3")

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
~			Inrush	Holding			
=	12 - 24 - 48 - 110 - 220 (DC)	22003	23VA	17VA	H 180°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
~	24 - 48 - 110 - 220 - 380 (50/ 60 Hz)		15 Watts				
=	12 - 24 - 48 (DC)	16W	25VA	15VA	F 155°C		
~	24 - 48 - 110 - 220 - 380 (50/ 60 Hz)		16 Watts				

CONSTRUCTION

Body: Forged Brass SS41

Tube and internal parts: Stainless steel

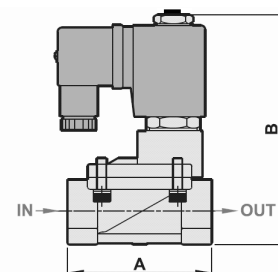
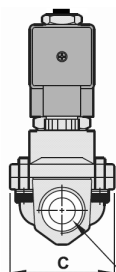
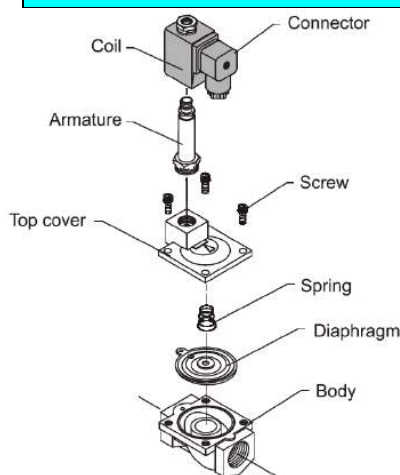
Seals and gaskets: NBR (Optional EPDM & FKM & HNBR)

Moulded coil: 16 W Resin / 22003 DuroPlast ThermoSet Resin

REPAIR KIT

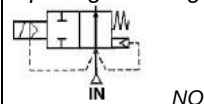
Diaphragm Seal	225 + size code (03-28) + seal material
Coil	Coil size (22003 or 16W) + voltage
Armature assembly (Normally Open)	225320VNO (not 21/2 + 3")

OVERALL DIMENSIONS



Port	3/8 1/2	3/4 1	1 1/4 1 1/2	2	2 1/2	3
A	66.5	96	131	160	243	250
B	106.5	126.5	145.5	160.5	178	188
C	48	70	96	112	184	184
Kg	0.725	1.565	2.56	3.9	9.4	11.4

Media: air – water – gas – light oil
 Pressure range: 0.5 to 25 Bar max
 Media temperature: -10°C +90°C max
 Ambient temperature: -10°C to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing time: 50 mSec Max



2/2 Brass

3/8 – 1"

NORMALLY OPEN

2 WAY SERVO ASSISTED

0.5 – 25 Bar

TYPE NOPU225H®



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Pressure Rating (Bar) ΔP		Seals	Part Number	
		Kv Ltr/ min	Min	Max			
3/8	8	19.0	0.5	25	NBR	NOPU225HB03 + voltage	
					EPDM	NOPU225HE03 + voltage	
					FKM	NOPU225HV03 + voltage	
1/2	8	19.0	0.5	25	NBR	NOPU225HB04A + voltage	
					EPDM	NOPU225HE04 + voltage	
					FKM	NOPU225HV04 + voltage	
3/4	13	40.0	0.5	25	NBR	NOPU225HB06 + voltage	
					EPDM	NOPU225HE06 + voltage	
					FKM	NOPU225HV06 + voltage	
1	13	40.0	0.5	25	NBR	NOPU225HB08 + voltage	
					EPDM	NOPU225HE08 + voltage	
					FKM	NOPU225HV08 + voltage	

OPTIONS

IP65 PG9 – DIN 43650 A Connector and Coil
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (20 Bar Max)
 NPT Thread
 Flange JIS10K ANSI150Lb or PN16

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 – 110 – 240 – 380 (50 or 60 Hz)	22005	33VA	24VA	H 180°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 – 24 -110 – 220 (DC)		18.5 Watts				

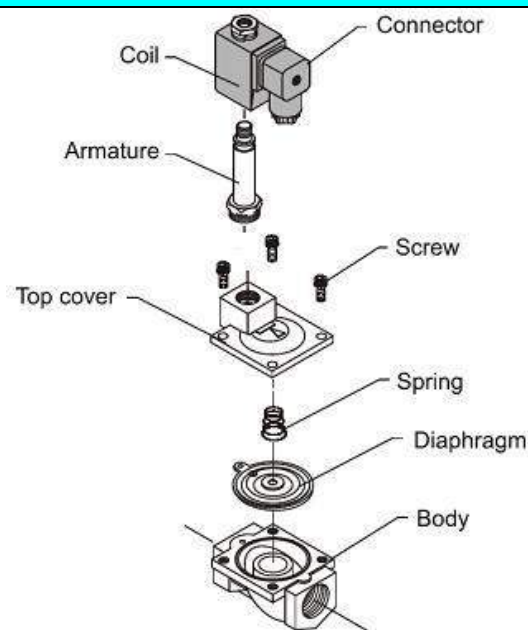
CONSTRUCTION

Body: Forged Brass SS41 (Test Pressure 30 Bar)
 Tube and Internal Parts: Stainless steel
 Diaphragm: Nylon reinforced NBR, FKM or EPDM

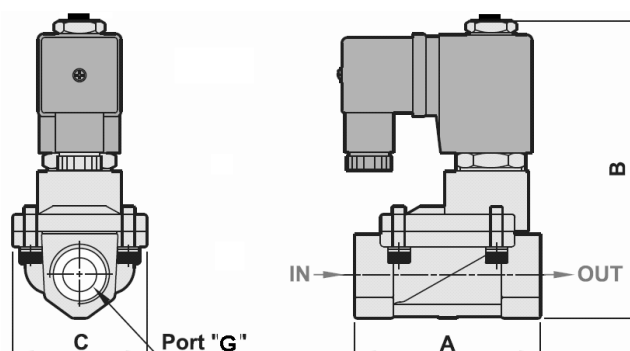
REPAIR KIT

Diaphragm Seal	225H + (size code 03-08) + seal material
Coil	22005 + voltage
Armature assembly	0543-83.6-00

OVERALL DIMENSIONS



Model	PU225H03	PU225H04	PU225H06	PU225H08
Port	3/8	1/2	3/4	1
A	66.5	66.5	96.0	96.0
B	106.5	106.5	126.5	126.5
C	48	48	70	70
Kg	0.775	0.755	1.55	1500



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Media: air – water – oil - vacuum
 Pressure range: 0 to 64 bar max
 Media temperature: -20°C to +100°C
 Ambient temperature: -30°C to +50°C
 Media viscosity: 500 centistokes max
 Mounting: any position
 Air pilot: 3 - 8 bar
 Open / Close 50 – 1000 mSec



3/2 Brass & Stainless

1/4 – 2" COAXIAL

N/CLOSED & N/OPEN

3 WAY PNEUMATIC

0 - 64 Bar

TYPE 380



PRESSURE

Port BSP	Ø Orifice (mm)	Flow Kv M³/Hr	Pressure Rating (Bar)		Body Material	Part Number	
			min	Max.			
				P→A P→R A→P R→P			
1/4, 3/8, 1/2	10	2.5	0	64	16	Brass	380A10MOG + port
3/8, 1/2, 3/4	15	6.6	0	64	16	Brass	380A15MOG + port
1/2, 3/4, 1	20	10.0	0	64	16	Brass	380A20MOG + port
3/4, 1, 1 1/4	25	12.2	0	64	16	Brass	380A25MOG + port
1, 1 1/4, 1 1/2	32	17.9	0	64	16	Brass	380A32MOG + port
1 1/2	40	41.5	0	64	16	Brass	380A40MOG112
2	50	43.0	0	64	16	Brass	380A50MOG2
1/4, 3/8, 1/2	10	2.5	0	64	16	St.St.303	380A10V2G + port
3/8, 1/2, 3/4	15	6.6	0	64	16	St.St.303	380A15V2G + port
1/2, 3/4, 1	20	10.0	0	64	16	St.St.303	380A20V2G + port
3/4, 1, 1 1/4	25	12.2	0	64	16	St.St.303	380A25V2G + port
1, 1 1/4, 1 1/2	32	17.9	0	64	16	St.St.303	380A32V2G + port
1 1/2	40	41.5	0	64	16	St.St.303	380A40V2G112
2	50	43.0	0	64	16	St.St.303	380A50V2G2
1/4, 3/8, 1/2	10	2.5	0	64	16	St.St.316	380A10V4G + port
3/8, 1/2, 3/4	15	6.6	0	64	16	St.St.316	380A15V4G + port
1/2, 3/4, 1	20	10.0	0	64	16	St.St.316	380A20V4G + port
3/4, 1, 1 1/4	25	12.2	0	64	16	St.St.316	380A25V4G + port
1, 1 1/4, 1 1/2	32	17.9	0	64	16	St.St.316	380A32V4G + port
1 1/2	40	41.5	0	64	16	St.St.316	380A40V4G112
2	50	43.0	0	64	16	St.St.316	380A50V4G2

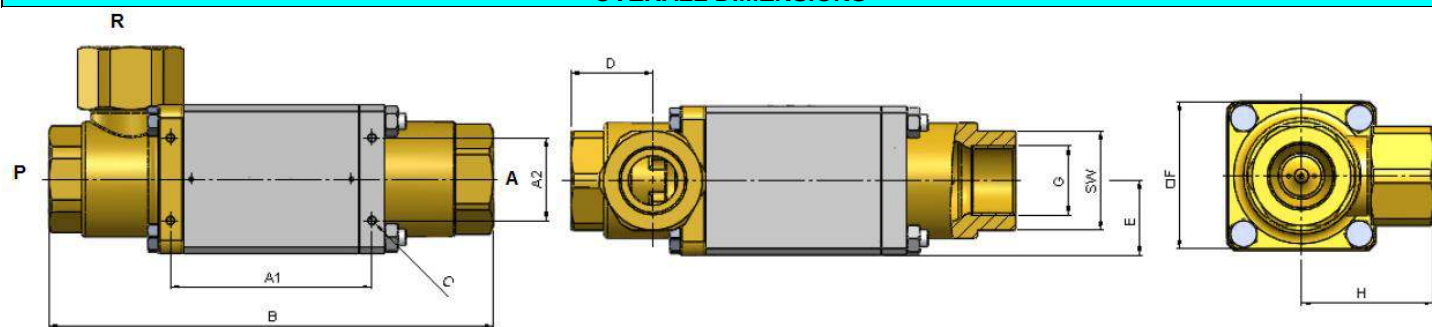
OPTIONS

Normally Open (380B)
 PTFE Seals
 Namur Valve CY52002S single acting spring close
 Namur Valve CY52002D double acting
 ATEX 22001EX Coil: ATEX EExmII T4 II 2G & 2D IP65 T130°C 🧊
 E1 Open or Closed position feedback switch
 E2 Open & Closed position feedback switches
 Many other options available upon request – Vacuum – Nickel Plated – Free of oil and Grease – Flanged – Mounting Brackets

CONSTRUCTION

Body: Brass MS058 (MO): Optional St steel 303 (V2G) or 316L (V4G)
 Tube and internal parts: Stainless steel
 Seals: Static FKM, Dynamic PTFE + FKM, Seat PTFE

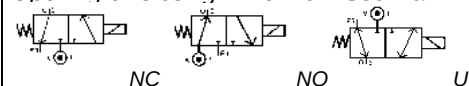
OVERALL DIMENSIONS



DN	G	SW	A1 (mm)	A2 (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	Kg
10	1/4 3/8 1/2	32	84	-	166.5	M4	32	25	50	37	1.8
15	3/8 1/2 3/4	41	100	-	200	M5	38.5	35	70	60	3.2
20	1/2 3/4 1	46	108	-	228	M5	45.5	40	80	72	4.6
25	3/4 1 1 1/4	55	121	-	252	M5	48	45	90	80	6.5
32	1 1 1/4 1 1/2	60	122	50	269	M6	49.5	45	90	80	7.6
40	1 1/2	75	131	60	304	M6	56.5	55	110	84	12.1
50	2	75	131	80	304	M6	56.5	55	110	84	12.1

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Media: air – water – gas – light oil - vacuum
 Pressure range: 0 to 15 bar max
 Media temperature: 100°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 40 centistokes max
 Mounting: any position
 Weight (including coil): 280 g
 Opening or Closing Time: 20 mSec Max



3/2 Brass

1/8 – 1/4

N/C, N/O & UNIVERSAL

3 WAY DIRECT ACTING

0 – 15 Bar

TYPE 300201



PRESSURE

Type	Ø Port BSP	Ø Orifice (mm)	Flow	Pressure Rating (bar) ΔP				Part Number
			Kv Ltr/Min	Min	AC 10 Watt Coil	DC 10 Watt Coil	DC 14 - 20Watt Coil	
3/2 NC	1/8	1.5	1.2	0	15	15	-	315201 + seal + 0181 + voltage
		2	1.7	0	13	13	-	320201 + seal + 0181 + voltage
		2.5	2.2	0	10	10	-	325201 + seal + 0181 + voltage
	1/4	1.5	1.2	0	15	15	-	315201 + seal + 0141 + voltage
		2	1.7	0	13	13	-	320201 + seal + 0141 + voltage
		2.5	2.2	0	10	10	-	325201 + seal + 0141 + voltage
3/2 NO	1/4	1.5	1.2	0	15	15	-	315201 + seal + 0140 + voltage
		2.5	2.2	0	9	9	-	325201 + seal + 0140 + voltage
		3	2.8	0	6.5	6.5	-	330201 + seal + 0140 + voltage
3/2 U	1/4	1.5	1.2	0	9	-	10*	315201 + seal + 0142 + voltage + coil
		2.5	2.2	0	6	-	6*	325201 + seal + 0142 + voltage + coil
		3	2.8	0	2	-	3*	330201 + seal + 0142 + voltage + coil

OPTIONS

Connector PG9 – DIN 43650 A

NBR, EPDM or FKM seals

Manual Over ride

NPT Thread

*High Power 14 – 20 Watt coil for DC

Explosion Proof Enclosure ATEX II 2 G/D EexdIICt6, IP65 85°C

ATEX EExmIIT4 according to ATEX II 2G T4 IP65 130C (10 watts)

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 48 - 110 - 230 - 380 (50/ 60Hz)	11630	26 VA	14 VA	F 155°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 - 24 – 48 – 80 – 190 (DC)	11630	10 Watts				
		31400	14 - 20 Watts				

CONSTRUCTION

Body: Brass Exhaust: 1/8 BSPM

Tube and internal parts: Stainless steel

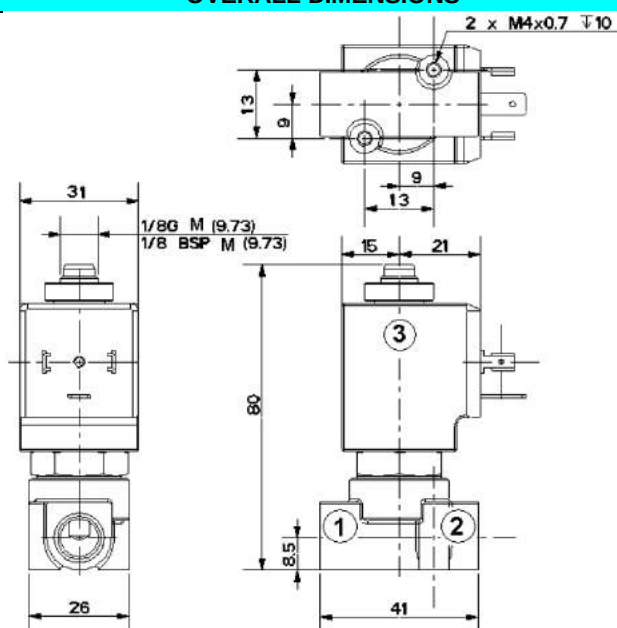
Seals and gaskets: NBR or EPDM or FKM

Moulded coil: Polyamide

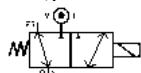
REPAIR KIT

Coil	Coil size (11630 or 31400) + voltage
Armature + Seal	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS



Media: compressed air
 Pressure range: 0 to 10 bar max
 Media temperature: 100°C max
 Ambient temperature: -10° to +50°C max
 Media viscosity: 40 centistokes max
 Opening or Closing time: 50 mSec Max
 Mounting: any position
 Weight: 2200g / 2500g



Universal

3/2 Stainless

1/4 - 1/2

UNIVERSAL

DIRECT OPERATED

0 – 10 Bar

TYPE 390



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Pressure (bar) ΔP		Seals	Media Temp. Max °C	Part Number
		Kv Ltr/Min	Min	Max			
1/4	6	5	0	10	NBR FKM	60 100	30639010 + 0142 + voltage 30639020 + 0142 + voltage
3/8 1/2	9	13	0	10	NBR FKM	60 100	30939010 + port + voltage 30939020 + port + voltage

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A

1/4 306 Series

Manual override or manual reset

NPT thread

Explosion Proof Enclosure ATEX II 2 G/D EEx d IIC T6, IP65 85°C

Other custom made options available upon request - EExmIIT4 ATEX II 2G T4 IP65 T130C

IP65 Coil & Connector PG9 – DIN 43650 A

3/8 & 1/2 309 Series

Manual override

NPT thread

Explosion Proof Enclosure ATEX II 2 G/D EExd IIC T6, IP65 85°C

Other custom made options available upon request – EExmIIT4 ATEX II 2G T4 IP65 T130C

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous Duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 – 48 – 110 - 230 (50 or 60 Hz) (With bridge rectifier to DC)	31037	14 W		F 155°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 – 24 - 48						

CONSTRUCTION

Body: 316 Stainless steel

Tube and internal parts: stainless steel

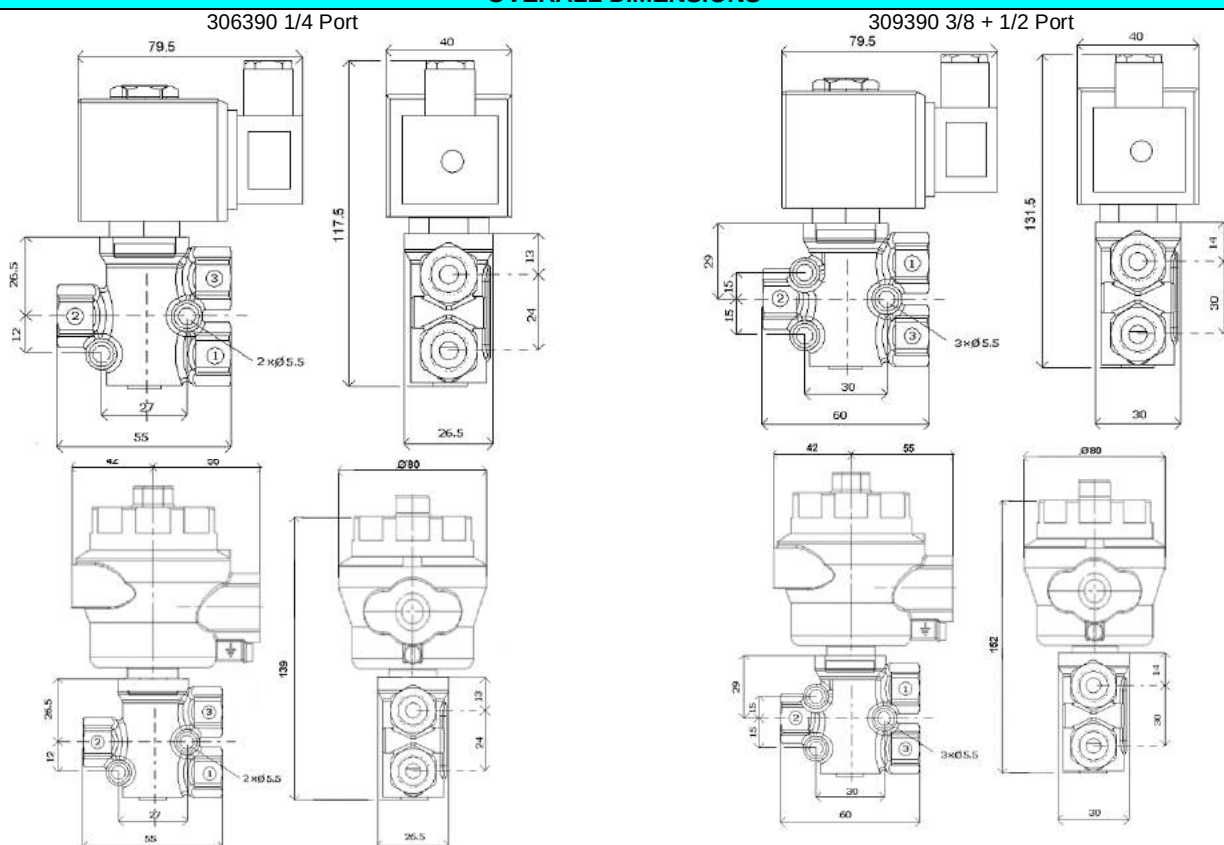
Seals and gaskets: NBR or FKM

Moulded coil: resin

REPAIR KIT

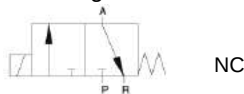
Coil	31037 + voltage
Complete plunger + O'ring + complete piston	KIT + valve part number

OVERALL DIMENSIONS



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Media: air – water – gas – light oil - vacuum
 Pressure range: 0 to 7 Bar max
 Media temperature: +100°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 40 centistokes max
 Mounting: any position
 Weight (including coil): 270/370g
 Opening or Closing time: 20 mSec Max



3/2 Aluminium

N/CLOSED (M5 Exhaust)

3 WAY DIRECT ACTING

TYPE AM325



PRESSURE

Ø Port	Ø Orifice (mm)	Flow Rate Cv Ltr/ min	Pressure Rating (Bar)		Part Number
			Min	Max	
1/4 BSP	2.2	2.3	0	6	AM325-02S + voltage
3/8 BSP	2.3	2.5	0	6	AM325-03S + voltage

OPTIONS

IP65 Coil + Connector PG9 – DIN 43650 A
 ATEX EExmIIT4 II 2G & 2D IP65 T130°C 
 NPT Thread

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil Size	Power		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

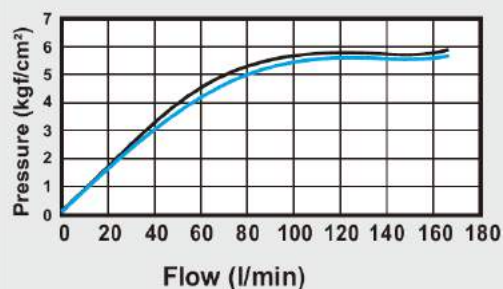
Body: Anodised Aluminium Alloy
 Tube and internal parts: Stainless steel
 Seals and gaskets: NBR
 Moulded coil: Resin

REPAIR KIT

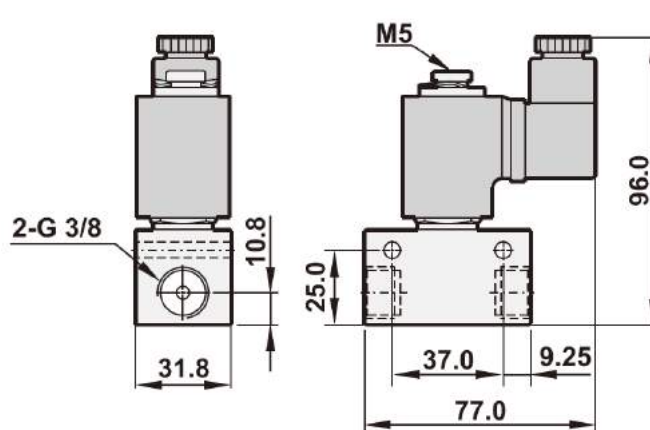
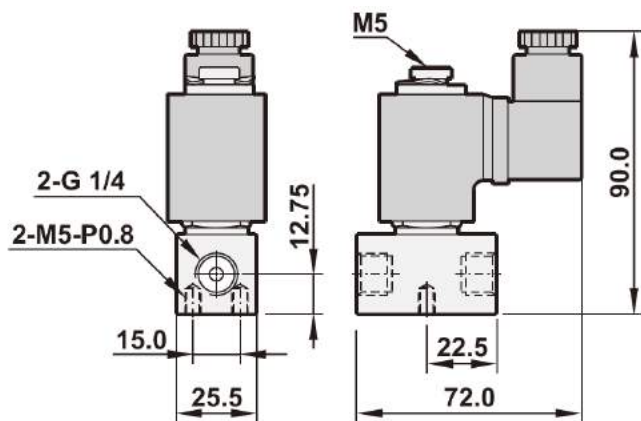
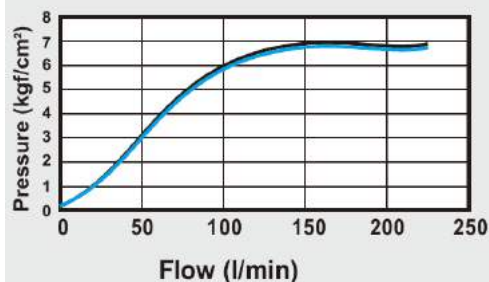
Coil	11630 + voltage
Complete plunger + O' rings	KIT325 + port + seal material

OVERALL DIMENSIONS

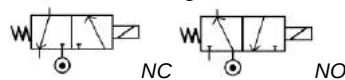
Model: AM325-02-S



Model: AM325-03-S



Media: air – water – light oil - vacuum
 Pressure range: 0 to 8 bar max
 Media temperature: 60°C max
 Ambient temperature: -10°C to +50°C
 Media viscosity: 40 centistokes max
 Mounting: any position
 Weight (including coil): 155 g
 Opening / Closing Time: 20 mSec Max



3/2 Aluminium

1/8 – 1/4

N/OPEN + N/CLOSED

3 WAY DIRECT ACTING

0 – 8 Bar

TYPE PU320/300



PRESSURE

Ø Port BSP	Exhaust	Orifice (mm) Ø	Flow Kv Ltr/ min	Pressure (bar) ΔP		Seals	Max Media Temp °C	Part Number	
				Min	Max				
1/8 N/CLOSED	M5	1.4	1	0	8	NBR EPDM FKM	80 160 130	PU32001A + voltage PU32001E + voltage PU32001V + voltage	
1/4 N/CLOSED	M5	1.4	1	0	8	NBR EPDM FKM	80 160 130	PU32002A + voltage PU32002AE + voltage PU32002AV + voltage	
1/8 N/OPEN	1/8 BSP	1.4	1	0	8	NBR EPDM FKM	80 160 130	PU30001A + voltage PU30001AE + voltage PU30001AV + voltage	
1/4 N/OPEN	1/4 BSP	1.4	1	0	8	NBR EPDM FKM	80 160 130	PU30002A + voltage PU30002AE + voltage PU30002AV + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A (optional 30cm flying lead wire coil)

Manifold kit (2 X nuts + washers + bolts + O Ring)

NPT thread

ATEX 22001EX Coil: ATEX EExmII T4 II 2G & 2D IP65 T130°C

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12 - 24 – 48 - 110 - 220 (50/60 Hz)	22001	11.6 VA	8.5 VA	F 155°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 – 24 - 48 – 110 (DC)		4.8 W				

CONSTRUCTION

Body: Anodised Aluminium

Tube and internal parts: Stainless steel

Seals and gaskets: NBR (Optional EPDM & FKM)

Moulded coil: Resin

Test pressure: 10 Bar

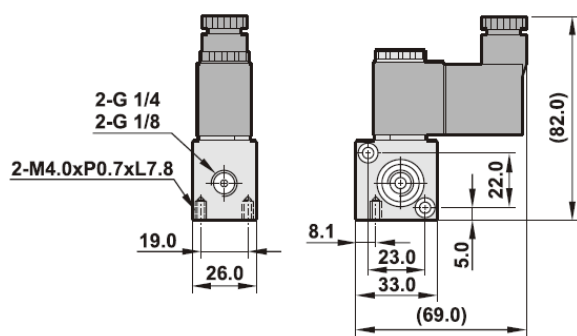
For normally open Inlet in through the top brass fitting.

REPAIR KIT

Coil	22001 + voltage
Complete plunger + O' rings	32001+ seal material

OVERALL DIMENSIONS

PU320



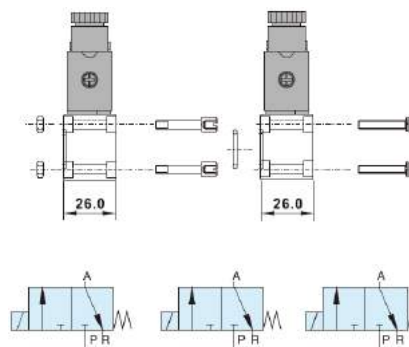
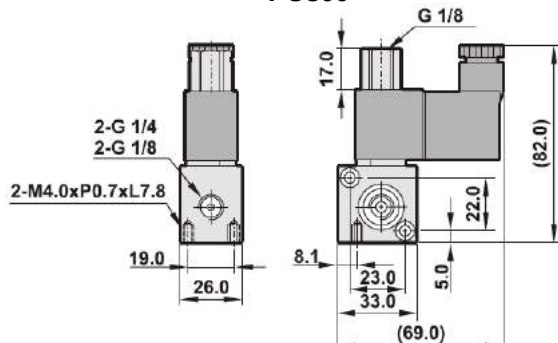
Manifold



Mounting Kit

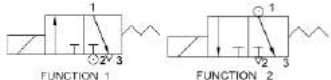


PU300



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Media: air – water – gas – light oil – vacuum
 Pressure range: 0 to 13 Bar max
 Media temperature: +120°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 50 centistokes max
 Mounting: any position
 Weight (including coil) 280 g
 Opening / Closing time: 15- 40 mSec Max



3/2 Stainless

1/8 – 1/4

NORMALLY CLOSED

3 WAY DIRECT ACTING

0 – 13 Bar

TYPE ST03/06



PRESSURE

Ø Port BSP	Ø Orifice (mm)		Flow	Pressure Rating (Bar)				Seals	Part Number		
			Kv Ltr/Min	Min	Coil 22001 Max		Coil 830 Max				
	Body	Top			F 1	Function 2	F 1				Function 2
1/8	0.8	1.0	0.3	0	10	10	13	13	Coil 22001 4.8 Watt -5 +80°C	ST031F + seal + voltage + coil	
	1.0		0.5	0	7		10			ST032F + seal + voltage + coil	
	1.2		0.8	0	5		7			ST033F + seal + voltage + coil	
	1.6	1.2	1.5	0	4	7	5	10		ST034F + seal + voltage + coil	
	2.0		2.3	0	3		4			ST035F + seal + voltage+ coil	
	2.4	1.5	3	0	1	5	3	7		ST036F + seal + voltage + coil	
	3.0		3.8	0	0.5		1			ST037F + seal + voltage + coil	
1/4	0.8	1.0	0.3	0	10	10	13	13		Coil 830 *6.8 Watt NBR +80°C *FKM +120°C *Kalrez +120°C	ST061F + seal + voltage + coil
	1.0		0.5	0	7		10				ST062F + seal + voltage + coil
	1.2		0.8	0	5		7				ST063F + seal + voltage + coil
	1.6	1.2	1.5	0	4	7	5	10	ST064F + seal + voltage + coil		
	2.0		2.3	0	3		4		ST065F + seal + voltage + coil		
	2.4	1.5	3	0	1	5	3	7	ST066F + seal + voltage + coil		
	3.0		3.8	0	0.5		1		ST067F + seal + voltage + coil		

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650B
 NPT Thread
 *830PL6 6.8 Watt High Power 30mm coil
 Silver Shading Ring for AC voltages
 ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Pressure same as coil 22001)
 *FKM Seals
 *Kalrez Seals
 Exhaust Accessories ST0**F= BSP Exhaust – blank=M5 female – P= 1/8 PT Male - C=Anti Dust Silent Cap

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 48 - 110 - 230 - 380 (50 or 60 Hz)	22001	12VA	6.9VA	F 155°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 – 24 - 48 (DC)		4.8 Watts				
~	24 - 48 - 110 – 230 (50 or 60 Hz)	830PL6	15VA	10.5VA			
=	12 - 24 (DC)		6.8 Watts				

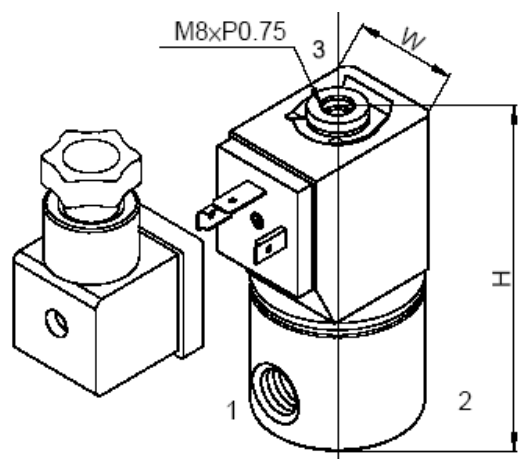
CONSTRUCTION

Body: AISI303 Stainless steel
 Tube and internal parts: AISI304 stainless steel
 Head & plunger: AISI 430Fr Stainless steel
 Seals and gaskets: NBR (Optional FKM, FFKM and Kalrez)
 Moulded coil: Duroplast / Thermo set resin
 Exhaust 1/8 BSP Female (See options above)

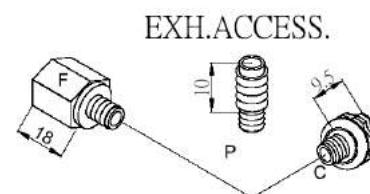
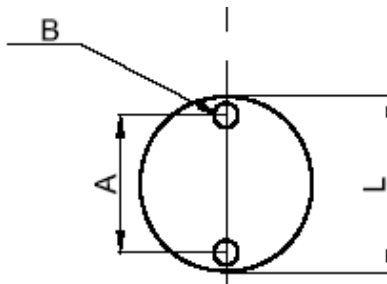
REPAIR KIT

Coil	Coil size (coil 22001 or coil 830PL6) + voltage
Complete plunger + O' rings	SP + Valve Part Number - ARMATURE

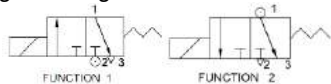
OVERALL DIMENSIONS



Port	L	W 22001 Coil	W 830 Coil	H	A	B
1/8	25	22	30	61	18	M4x0.7
1/4	30	22	30	65	23	M4x0.7



Media: air – water – gas – light oil – vacuum
 Pressure range: 0 to 16 Bar max
 Media temperature: -5°C to +145°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 50 centistokes max
 Mounting: any position
 Weight (including coil) 510g
 Opening / Closing time: 6- 20 mSec Max



3/2 Stainless

1/4 - 3/8

NORMALLY CLOSED

3 WAY DIRECT ACTING

0 – 16 Bar

TYPE ST08/10



PRESSURE

Ø Port BSP	Ø Orifice (mm)		Flow	Pressure Rating (Bar)					Seals	Part Number	
			Kv Ltr/Min	Min	Max 22003 Coil		Max 22005 Coil				
	Body	Top			F 1	Function 2	F 1	Function 2			
1/4	1.3	1.6	1.2	0	10	13	13	16	NBR -5 +80°C *FKM -10 +145°C *Kalrez -10 +145°C	ST081F + seal + voltage + coil	
	1.6		1.7	0	7		10			ST082F + seal + voltage + coil	
	2.0		2.5	0	5		7			ST083F + seal + voltage + coil	
	2.5	2.0	3.3	0	4	10	5	13		ST084F + seal + voltage + coil	
	3.0		5.1	0	3		4			ST085F + seal + voltage + coil	
	4.0		9	0	2		3			ST086F + seal + voltage + coil	
	5.0	2.8	13	0	1	7	2	10		ST087F + seal + voltage + coil	
3/8	1.3	1.6	1.2	0	10	13	13	16		ST101F + seal + voltage + coil	
	1.6		1.7	0	7		10			ST102F + seal + voltage + coil	
	2.0		2.5	0	5		7			ST103F + seal + voltage + coil	
	2.5	2.0	3.3	0	4	10	5	13		ST104F + seal + voltage + coil	
	3.0		5.1	0	3		4			ST105F + seal + voltage + coil	
	4.0		9	0	2		3			ST106F + seal + voltage + coil	
	5.0	2.8	13	0	1	7	2	10		ST107F + seal + voltage + coil	

OPTIONS

IP65 Coil and Connector PG9 DIN43650A
 NPT Thread
 22005 18.5 Watt High Power coil
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Pressure same as 15 Watt 22003 coil)
 FKM (V) seal
 Kalrez (Z) seal
 Exhaust Accessories ST0**F= BSP Exhaust – blank=M5 female – P= 1/8 PT Male - C=Anti Dust Silent Cap
 Other custom made options available upon request

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12-24-48-110-220-240-380 (50/60 Hz)	22003	30VA	22VA	H 180°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12-24-48-110-220 (DC)		15 Watts				
~	24 - 48 - 110 – 230 (50 or 60 Hz)	22005	33VA	24VA			
=	12 - 24 - 48 – 110 - 220(DC)		18.5 Watts				

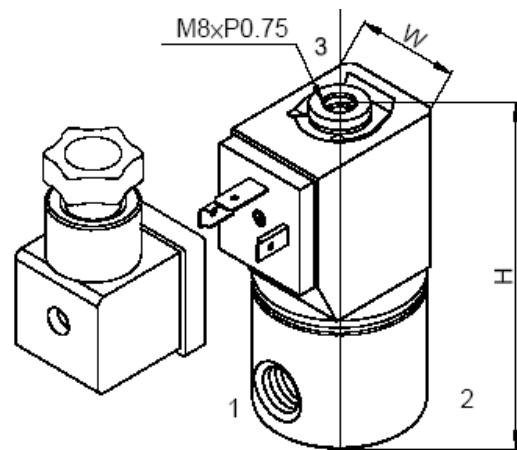
CONSTRUCTION

Body: AISI303 Stainless steel
 Tube and internal parts: AISI304 stainless steel
 Head & plunger: AISI 430Fr Stainless steel
 Seals and gaskets: FKM (Optional NBR)
 Moulded coil: Duroplast / Thermo set resin
 Exhaust 1/8 BSP Female (F) see options above

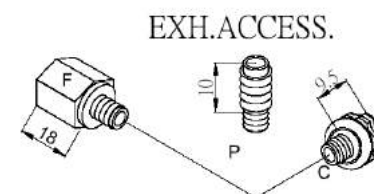
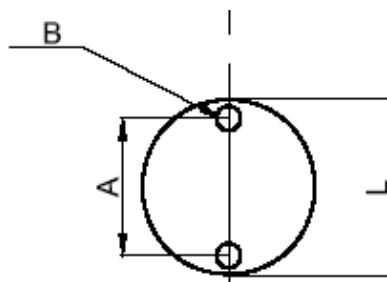
REPAIR KIT

Coil	Coil size (22003 or 22005) + voltage
Complete plunger + O' rings	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS



Port	L	W 22003	W 22005	H	A	B
1/4	40	30	36	85.5	31	M5x0.8
3/8	40	30	36	85.5	31	M5x0.8



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Media: air 40 Micron or better
 Pressure range: 2 to 8 Bar max
 Mounting: any position
 Seals: NBR+ HNBR
 Opening & Closing: 50mSec Max
 Cycles per sec: 8 Max
 Temp: -20°C to +60°C (-40°C +150°C*)
 Cycle life: 1,000,000+



EExd IIC T6 3/2 **Namur + 1/4" BSP** **NORMALLY CLOSED** **Direct Acting** **TYPE SV12-10F/P**



Single Direct Acting Normally Closed

Ø Port	Ø Orifice mm	Function	Working Temp °C	Pressure Rating (Bar)		Protection	Body Material	Part Number	
				Min	Max				
1/4BSP + Namur	1.3	3/2	-20 to +60	0	8	EExdIIC T6	Aluminium	SV110FP1C5 + voltage	
							AISI316	SV210FP1C4 + voltage	

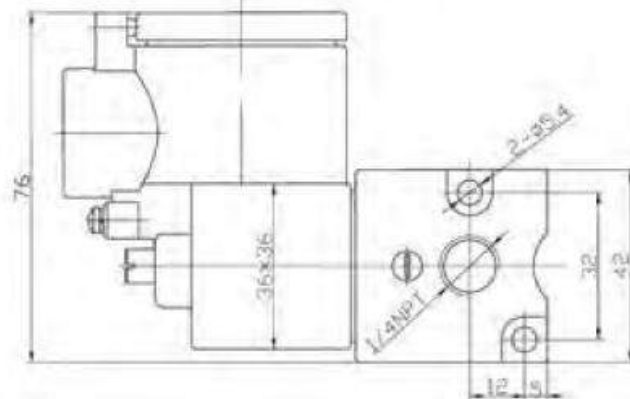
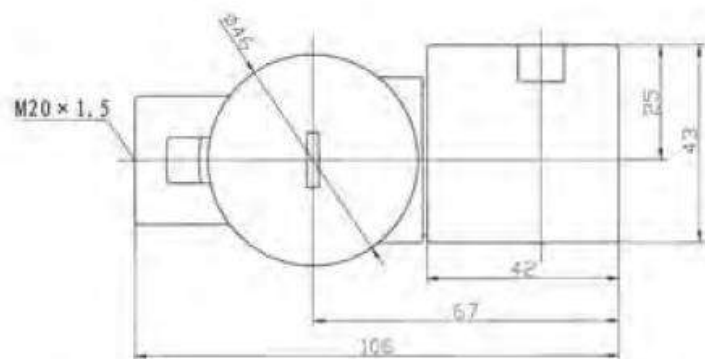
OPTIONS

EExdIIC T6 Conduit entry M20x1.5mm(M20) option 1/2"NPTF (N12)
 EExdIIC T6 ATEX explosion proof certified
 Manual Over Ride (screwdriver slot)
 Thread & Namur mount with same body
 NPT Thread (N)
 *Special working temperature: -40°C +80°C (+150°C custom option), 1/8" port

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		ATEX Coil	Power Consumption	Insulation class	Enclosure	
~	110 - 230 (50 or 60 Hz)	EEx d Coil C4 316 Stainless	4VA	F 155°C	IP 66 M20x1.5 or 1/2"NPTF	
=	24 (DC)		3.5 Watts			
~	110 - 230 (50 or 60 Hz)	EEx d Coil C5 Aluminium Epoxy Coated	4VA			
=	24 (DC)		3.5 Watts			

OVERALL DIMENSIONS

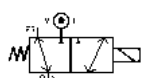


SV210F/P1C4



SV110F/P1C5

Media: air – water – gas – light oil
 Pressure range: 0 to 11 Bar max
 Media temperature: -10°C +80°C max
 Ambient temperature: -20° to +60°C
 Media viscosity: 50 centistokes max
 Mounting: any position
 Weight: 460g / 670g



Universal

3/2 Brass

1/4

UNIVERSAL

3 WAY DIRECT ACTING

0 – 11 Bar

TYPE VX



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Coil	Pressure Rating (Bar)				Part Number	
				Min	Max AC	Max DC	Seal		
1/4	1.6	1.5	WPG1	0	7	4.9	NBR	VX3121N + voltage	
							FKM	VX3121V + voltage	
	2.2	2.7		0	5	3.5	NBR	VX3122N + voltage	
							FKM	VX3122V + voltage	
	1.6	1.5	WPG2	0	11	7.7	NBR	VX3221N + voltage	
							FKM	VX3221V + voltage	
	2.2	2.7		0	7	4.9	NBR	VX3222N + voltage	
							FKM	VX3222V + voltage	

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil + IP65 Connector PG11 with LED – DIN 43650 A
 NPT Thread

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
~			Inrush	Holding			
~	24 - 48 - 110 - 230 - 380 (50 or 60 Hz)	WPG1	11.2VA	8.2VA	H 180°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 - 24 - 48 (DC)		12 Watts				
~	24 - 48 - 110 - 230 - 380 (50 or 60 Hz)	WPG2	18.7VA	15.3VA			
=	12 - 24 - 48 (DC)		18 Watts				

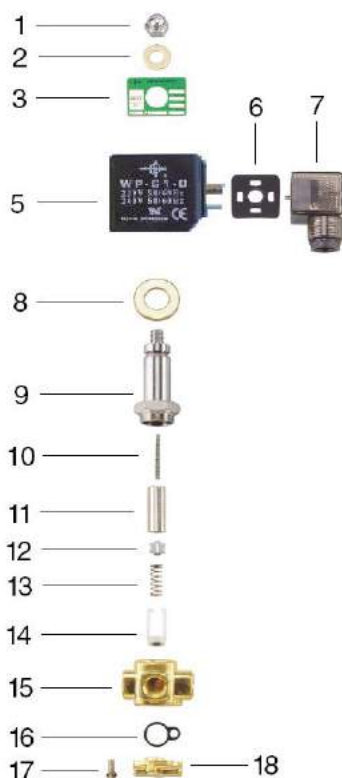
CONSTRUCTION

Body : Brass
 Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless
 Seals and gaskets: NBR or FKM
 Moulded coil: Resin

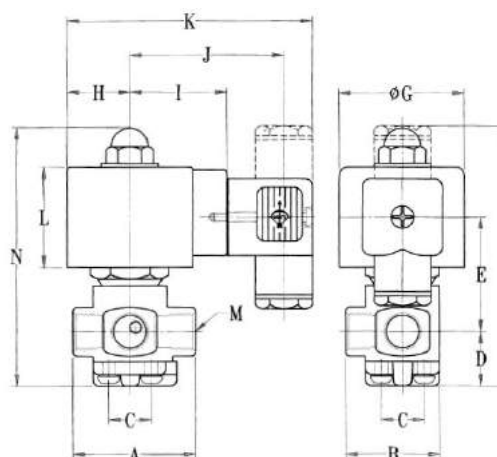
REPAIR KIT

Coil	Coil (WPG1 or WPG2) + voltage
Armature Assembly	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS



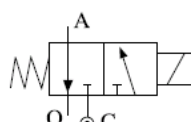
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
VX31	43	33	15	19	46	96	35	20	33	54	86	33	1/4	92
VX32	43	33	15	19	48	98	40	23	35	56	89	38	1/4	95



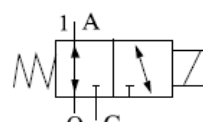
Inlet C= Normally Closed

Inlet O= Normally Open

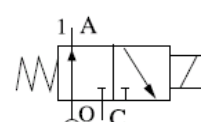
Inlet A= Universal



Normally closed

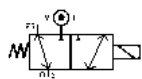


Universal



Normally open

Media: air – water – gas – light oil
 Pressure range: 0 to 11 Bar max
 Media temperature: -10 °C +80°C max
 Ambient temperature: -20° to +60°C
 Media viscosity: 50 centistokes max
 Mounting: any position
 Weight: 460g / 670g



Universal

3/2 Stainless Steel

1/4

UNIVERSAL

3 WAY DIRECT ACTING

0 – 11 Bar

TYPE VXS



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Coil	Pressure Rating (Bar)				Part Number	
		Kv Ltr/ min		Min	Max AC	Max DC	Seal		
1/4	1.6	1.5	WPG1	0	7	4.9	NBR	VXS3121N + voltage VXS3121V + voltage	
							FKM		
	2.2	2.7		0	5	3.5	NBR	VXS3122N + voltage VXS3122V + voltage	
							FKM		
	1.6	1.5	WPG2	0	11	7.7	NBR	VXS3221N + voltage VXS3221V + voltage	
							FKM		
	2.2	2.7		0	7	4.9	NBR	VXS3222N + voltage VXS3222V + voltage	
							FKM		

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil + IP65 Connector PG11 with LED – DIN 43650 A
 NPT Thread

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 48 - 110 - 230 - 380 (50 or 60 Hz)	WPG1	11.2VA	8.2VA	H 180°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 - 24 - 48 (DC)		12 Watts				
~	24 - 48 - 110 - 230 - 380 (50 or 60 Hz)	WPG2	18.7VA	15.3VA			
=	12 - 24 - 48 (DC)		18 Watts				

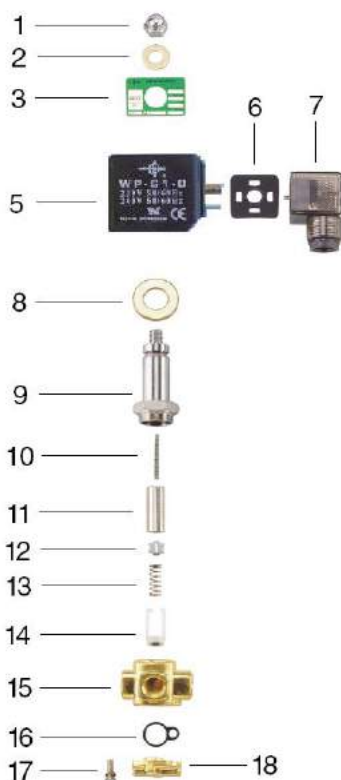
CONSTRUCTION

Body : 316 stainless steel
 Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless
 Seals and gaskets: NBR or FKM
 Moulded coil: Resin

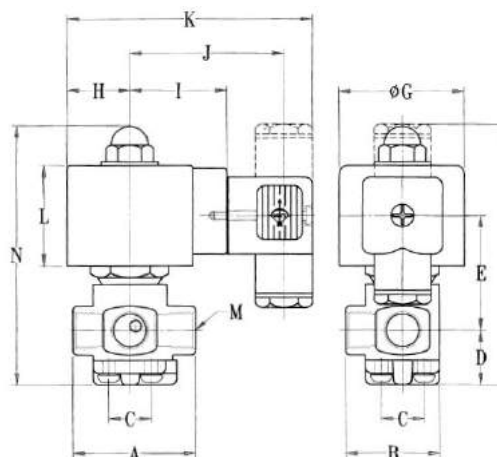
REPAIR KIT

Coil	Coil (WPG1 or WPG2) + voltage
Armature Assembly	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS



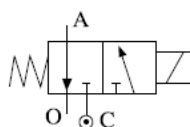
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
VXS31	43	33	15	19	46	96	35	20	33	54	86	33	1/4	92
VXS32	43	33	15	19	48	98	40	23	35	56	89	38	1/4	95



Inlet C= Normally Closed

Inlet O= Normally Open

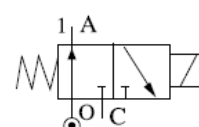
Inlet A= Universal



Normally closed

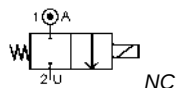


Universal



Normally open

Media: air – water – gas – light oil - vacuum
 Pressure range: 0 to 15 bar max
 Media temperature: 185°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 50 centistokes max
 Mounting: any position
 Opening / Closing time: 20 mSec Max



2/2 Stainless

1/8 - 1/2

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 15 Bar

TYPE ADS612



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Coil	Flow	Pressure Rating (bar) ΔP			Seals	Part Number	
			Kv Ltr/min	Min	Max AC	Max DC			
1/8	3.0	WPG1	4	0	10	7	NBR +80°C SILICONE +120°C EPDM +120°C FKM +120°C *PTFE +185°C *VST +185°C	ADS6A + seal + voltage	
	4.0		5.5	0	7	5		ADS6B + seal + voltage	
	5.0		7.2	0	5	3.5		ADS6C + seal + voltage	
1/4	3.0		4	0	10	7		ADS8A + seal + voltage	
	4.0		5.5	0	7	5		ADS8B + seal + voltage	
	5.0		7.2	0	5	3.5		ADS8C + seal + voltage	
3/8	4.0	WPG2	5.5	0	10	7		ADS10A + seal + voltage	
	6.0		10.5	0	5	3.5		ADS10B + seal + voltage	
	8.0		16.2	0	2	1.4		ADS10C + seal + voltage	
	4.0	WPA3C	5.5	0	15	10		ADS10A-C3 + seal + voltage	
	6.0		10.5	0	7	5		ADS10B-C3 + seal + voltage	
	8.0		16.2	0	3	2		ADS10C-C3 + seal + voltage	
1/2	6.0	WPG2	10.5	0	5	3.5		ADS12A + seal + voltage	
	8.0		16.2	0	2	1.4		ADS12B + seal + voltage	
	6.0	WPA3C	10.5	0	7	5		ADS12A-C3 + seal + voltage	
	8.0		16.2	0	3	2		ADS12B-C3 + seal + voltage	

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil + IP65 Connector PG11 with LED – DIN 43650 A
 ATEX EExmII T4 II 2G & 2D IP65 T130°C coil. (Pressure rating WPG1 same, WPG2 70% of DC rating, WPA3C not available)
 Silver shading ring (ADSxxxS)
 * PTFE, VST, CR, ECO, HNBR or Hypalon Seals
 Manual Over Ride (ADS8 – 10)
 NPT Thread

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 110 - 230 (50 or 60 Hz)	WPG1	11.2VA	8.2VA	H 180°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 - 24 (DC)		12 Watts				
~	24 - 110 - 230 (50 or 60 Hz)	WPG2	18.7VA	15.3VA			
=	12 - 24 (DC)		18 Watts				
~	24 - 110 - 230 (50 or 60 Hz)	WPA3C	88VA	57VA	N 200°C	IP54	30cm flying lead wire
=	12 - 24 (DC)		33.6 Watts				

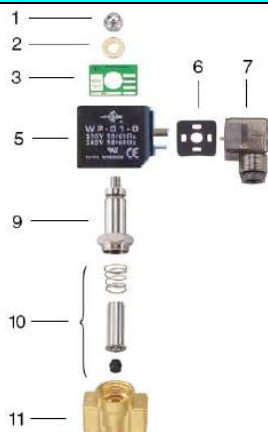
CONSTRUCTION

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

REPAIR KIT

Coil	Coil (WPG1 or WPG2 or WPA3C) + voltage
Armature + Seal assembly	SP210 + Valve Part Number

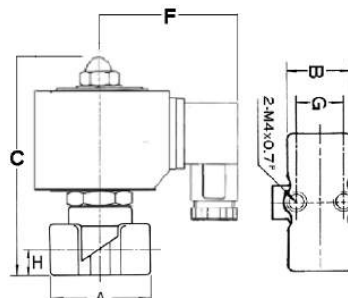
OVERALL DIMENSIONS



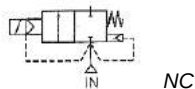
Item	Part No	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
5	WPG*	Coil
6	SP206-*	Gasket
7	SP207-*	Connector
9	SP209-*	Core Tube
10	SP210-*	Armature Assembly
17	SP211-*	Valve Body

* = Valve Part Number

Model	A	B	C	F	G	H	Kg
ADS8	41	19	89	63	15	10.5	0.47
ADS10	50	25	90	65	15	11.7	0.73
ADS12	55	27	91	65	17	13	0.78



Media: slight acid/ alkali – fluid – gas – vacuum
 Pressure range: 0 to 10 Bar max
 Media temperature: 180°C max
 Ambient temperature: -10°C to +60°C max
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening Closing time: 150 mSec Max



2/2 Stainless

3/8 – 2

NORMALLY CLOSED

2 WAY ZERO RATED

0 – 10 Bar

TYPE ADS14-50



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/Min	Pressure Rating (Bar) ΔP			Seals	Max Media Temp °C	Part Number	
			Min	Max AC	Max DC				
3/8	15	40	0	10	7	FKM EPDM NBR	120 120 80	ADS14V + voltage ADS14E + voltage ADS14N + voltage	
1/2	15	40	0	10	7	FKM EPDM NBR	120 120 80	ADS15V + voltage ADS15E + voltage ADS15N + voltage	
3/4	20	95	0	10	7	FKM EPDM NBR	120 120 80	ADS20V + voltage ADS20E + voltage ADS20N + voltage	
1	25	185	0	10	7	FKM EPDM NBR	120 120 80	ADS25V + voltage ADS25E + voltage ADS25N + voltage	
1 1/4	35	400	0	10	7	FKM EPDM NBR	120 120 80	ADS35V + voltage ADS35E + voltage ADS35N + voltage	
1 1/2	35	400	0	10	7	FKM EPDM NBR	120 120 80	ADS40V + voltage ADS40E + voltage ADS40N + voltage	
2	50	570	0	7	4.9	FKM EPDM NBR	120 120 80	ADS50V + voltage ADS50E + voltage ADS50N + voltage	

OPTIONS

IP67 (EN60529:1991+A1:2000) UL & CSA Approved Coil & IP65 LED Connector PG11 – DIN 43650 A
 Silver shading ring (ADSxxxS)
 NPT, BSPT Thread
 ATEX EExmII T4 II 2G & 2D IP65 T130°C Coil (Pressure 3 Bar Max)
 Manual Over Ride (Base entry T bar)
 VST seals suitable for steam 180°C, CR, ECO, HNBR, Silicone or Hypalon Seals

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 110 - 220 - 240 - 380 (50 or 60 Hz)	WPG2	18.7VA	15.3VA	H 180°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 – 24 - 48 (DC)		18 Watts				

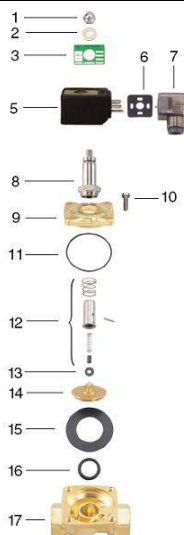
CONSTRUCTION

Body: 316 stainless steel (CF8M)
 Tube + Spring 304 Stainless Armature: 430F Stainless steel
 Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, VST, CR, ECO, HNBR and Hypalon)
 Moulded coil: Resin

REPAIR KIT

Coil	WPG2 + voltage
Diaphragm	SP215 + Valve Part Number

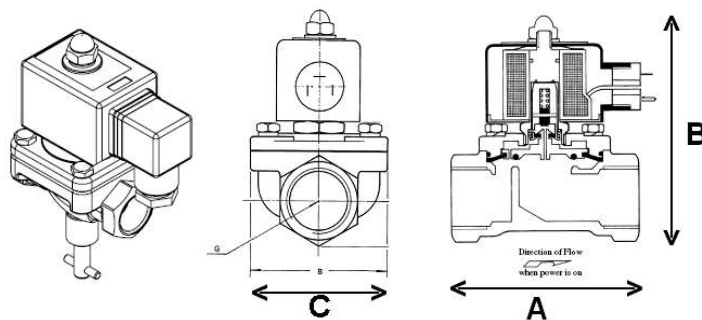
OVERALL DIMENSIONS



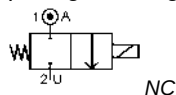
No.	Part No	Description
1	SP201*	Nut
2	SP202*	Washer
3	SP203*	Nameplate
5	WPG2*	Coil
6	SP206*	Gasket
7	SP207*	Connector
8	SP208*	Core Tube
9	SP209*	Valve Bonnet
10	SP210*	Bolt
11	SP211*	Bonnet O Ring
12	SP212*	Armature Assembly
13	SP213*	Diaphragm Base Kit
14	SP214*	Diaphragm Base
15	SP215*	Diaphragm
16	SP216*	Base O Ring
17	SP217*	Valve Body

* = Valve Part Number

Model	ADS 15	ADS 20	ADS 25	ADS35 ADS40	ADS 50
A	75	85	100	120	150
B	103	114	120	140	160
C	52	60	70	90	122
Kg	1.06	1.24	1.51	2.87	4.81



Media: air – water – gas – light oil - vacuum
 Pressure range: 0 to 150 Bar max
 Media temperature: 180°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 50 centistokes max
 Mounting: any position
 Opening / Closing time: 20 mSec Max



2/2 Stainless

1/8

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 150 Bar

TYPE ADS6000



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Coil	Flow	Pressure Rating (bar) ΔP			Seals	Part Number
			Kv Ltr/min	Min	Max AC	Max DC		
1/8	1.2	WPG1	1.1	0	60	42	NBR +80°C SILICONE +120°C EPDM +120°C FKM +120°C *VST +180°C (30 Bar Max) *PTFE +180°C (150 Bar)	ADS6012 + seal + voltage
	1.6		1.5	0	40	28		ADS6016 + seal + voltage
	2.0		1.8	0	20	14		ADS6020 + seal + voltage
	1.2	WPG2	1.1	0	120	84		ADS6112 + seal + voltage
	1.6		1.6	0	60	42		ADS6116 + seal + voltage
	2.0		1.8	0	30	21		ADS6120 + seal + voltage
	3.0		4.3	0	20	14		ADS6130 + seal + voltage
	4.0		9.7	0	12	8.4		ADS6140 + seal + voltage
	5.0		10.7	0	10	7		ADS6150 + seal + voltage
	1.2	WPA3C	1.1	0	150	105		ADS6212 + seal + voltage
	1.6		1.5	0	80	56		ADS6216 + seal + voltage
	2.0		1.8	0	60	42		ADS6220 + seal + voltage
	3.0		4.3	0	40	28		ADS6230 + seal + voltage
	4.0		9.7	0	20	14		ADS6240 + seal + voltage
	5.0		10.7	0	15	10.5		ADS6250 + seal + voltage

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 – DIN 43650 A
 ATEX EExmIIT4 II 2G & 2D IP65 T130°C coil. (Pressure rating WPG1 same, WPG2 70% of DC rating, WPA3C not available)
 * PTFE, VST, CR, ECO, HNBR or Hypalon Seals
 Silver shading ring (ADS6xxxS)
 Manual Over Ride
 NPT Thread
 Other custom made options upon request

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 110 - 230 (50 or 60 Hz)	WPG1	11.2VA	8.2VA	H 180°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 - 24 (DC)		12 Watts				
~	24 - 110 - 230 (50 or 60 Hz)	WPG2	18.7VA	15.3VA			
=	12 - 24 (DC)		18 Watts				
~	24 - 110 - 230 (50 or 60 Hz)	WPA3C	88VA	57VA		IP54	30 cm flying lead wires
=	12 - 24 (DC)		33.6 Watts				

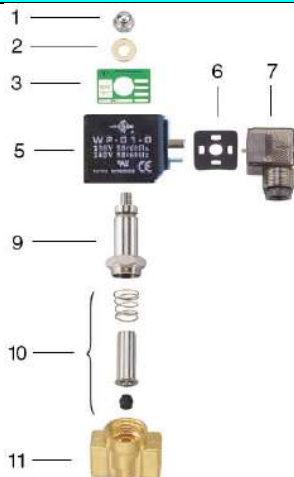
CONSTRUCTION

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

REPAIR KIT

Coil	Coil size (WPG1 or WPG2 or WPA3C) + voltage
Armature	SP210 + Valve Part Number

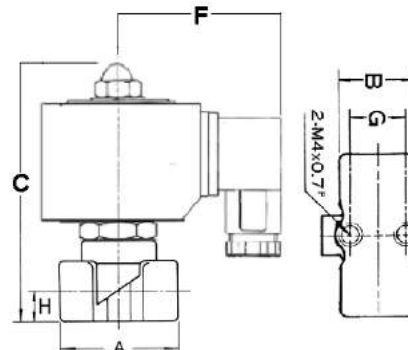
OVERALL DIMENSIONS



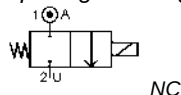
Item	Part No	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
5	WP*	Coil
6	SP206-*	Gasket
7	SP207-*	Connector
9	SP209-*	Core Tube
10	SP210-*	Armature Assembly
17	SP211-*	Valve Body

* = Valve Part Number

Model	A	B	C	F	G	H	Kg
6012-6020	41	19	85	63	15	10.5	0.47
6112-6150	41	19	88	65	15	10.5	0.66
6212-6250	41	19	94	47	15	10.5	0.66



Media: air – water – gas – fluid - vacuum
 Pressure range: 0 to 150 Bar max
 Media temperature: 180°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 50 centistokes max
 Mounting: any position
 Opening / Closing time: 20 mSec Max



2/2 Stainless

1/4

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 150 Bar

TYPE ADS8000



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Coil	Flow	Pressure Rating (bar) ΔP			Seals	Part Number	
			Kv Ltr/min	Min	Max AC	Max DC			
1/4	1.2	WPG1	1.1	0	60	42	NBR +80°C SILICONE +120°C EPDM +120°C FKM +120°C *VST +180°C (30 Bar Max) *PTFE +180°C (150 Bar)	ADS8012 + seal + voltage	
	1.6		1.5	0	40	28		ADS8016 + seal + voltage	
	2.0		1.8	0	20	14		ADS8020 + seal + voltage	
	1.2	WPG2	1.1	0	120	84		ADS8112 + seal + voltage	
	1.6		1.6	0	60	42		ADS8116 + seal + voltage	
	2.0		1.8	0	30	21		ADS8120 + seal + voltage	
	3.0		4.3	0	20	14		ADS8130 + seal + voltage	
	4.0		9.7	0	12	8.4		ADS8140 + seal + voltage	
	5.0		10.7	0	10	7		ADS8150 + seal + voltage	
	1.2	WPA3C	1.1	0	150	105		ADS8212 + seal + voltage	
	1.6		1.5	0	80	56		ADS8216 + seal + voltage	
	2.0		1.8	0	60	42		ADS8220 + seal + voltage	
	3.0		4.3	0	40	28		ADS8230 + seal + voltage	
	4.0		9.7	0	20	14		ADS8240 + seal + voltage	
	5.0		10.7	0	15	10.5		ADS8250 + seal + voltage	

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil (Not WPA3C) & IP65 LED Connector PG11 – DIN 43650 A
 ATEX EExmII T4 II 2G & 2D IP65 T130°C Coil. (Pressure rating WPG1 same, WPG2 70% of DC rating, WPA3C not available)
 * PTFE, VST, CR, ECO, HNBR or Hypalon Seals
 Silver shading ring (ADSxxxS)
 Manual Over Ride
 NPT Thread
 Other custom made options upon request

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 110 - 230 (50 or 60 Hz)	WPG1	11.2VA	8.2VA	H 180°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 - 24 (DC)		12 Watts				
~	24 - 110 - 230 (50 or 60 Hz)	WPG2	18.7VA	15.3VA			
=	12 - 24 (DC)		18 Watts				
~	24 - 110 - 230 (50 or 60 Hz)	WPA3C	88VA	57VA		IP54	30 cm flying lead wires
=	12 - 24 (DC)		33.6 Watts				

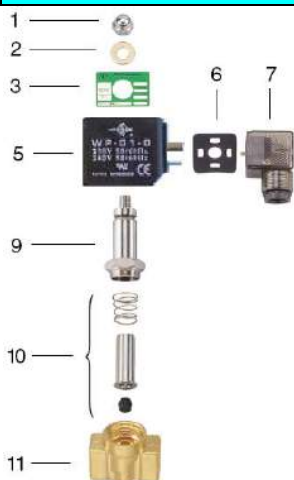
CONSTRUCTION

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

REPAIR KIT

Coil	Coil size (WPG1 or WPG2 or WPA3C) + voltage
Armature + Seal	SP210 + Valve Part Number

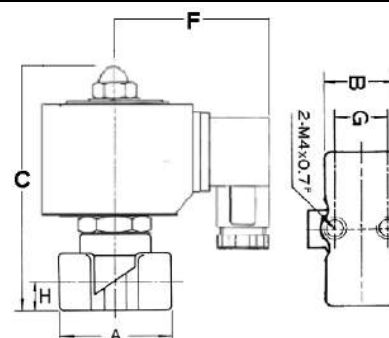
OVERALL DIMENSIONS



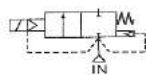
Item	Part No	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
5	WP*	Coil
6	SP206-*	Gasket
7	SP207-*	Connector
9	SP209-*	Core Tube
10	SP210-*	Armature Assembly
17	SP211-*	Valve Body

* = Valve Part Number

Model	A	B	C	F	G	H	Kg
8012-8020	41	19	85	63	15	10.5	0.47
8112-8150	41	19	88	65	15	10.5	0.66
8212-8250	41	19	94	47	15	10.5	0.66



Media: air – fluid – gas – vacuum- water
 Pressure range: 0 to 10 Bar max
 Media temperature: 120°C max
 Ambient temperature: -20°C to +60°C max
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing Time: 50 mSec Max



NC

2/2 Stainless Flanged

DN15 – DN50

NORMALLY CLOSED

2 WAY ZERO RATED

0 – 10 Bar

TYPE ADSF



PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (Bar) ΔP			Max Working	Seals Temperature °C	Part Number	
			Min	Max AC	Max DC				
DN15	15	75	0	10	7	10	NBR +80°C FKM +120°C EPDM +120°C Silicone +130°C *CST +185°C	ADS15PF + seal + voltage	
DN20	20	155	0	10	7	10		ADS20PF + seal + voltage	
DN25	25	220	0	10	7	10		ADS25PF + seal + voltage	
DN32	35	400	0	10	7	10		ADS35PF + seal + voltage	
DN40	35	400	0	10	7	10		ADS40PF + seal + voltage	
DN50	51	800	0	7	5	10		ADS50PF + seal + voltage	

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 – DIN 43650 A
 ATEX EExmIIT4 II 2G & 2D IP65 T130°C coil. (Max Pressure 3 Bar)
 ANSI150Lb, JIS10K or other flange
 Manual Over Ride (Bottom entry mounted turn T bar)
 Silver Shading Ring (ADSxxPFS)
 *VST special seals for steam 180°C, CR, ECO, HNBR, Silicone or Hypalon Seals
 Other custom made 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)	WPG2	18.7VA	15.3VA	H 180°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 - 24 (DC)		18 Watts				

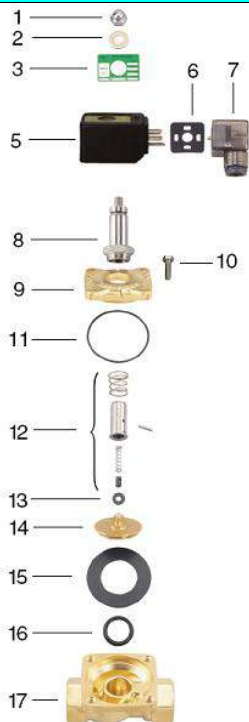
CONSTRUCTION

Body: 316 stainless steel CF8M
 Tube and Spring: 304 Stainless Armature: 430F Stainless other internal parts 316 Stainless
 Seals and gaskets: FKM (Optional EPDM, NBR, SILICONE, VST, CR, ECO, HNBR and Hypalon)
 Moulded coil: Resin

REPAIR KIT

Coil	WPG2 + voltage
Diaphragm	SP215 + Valve Part Number

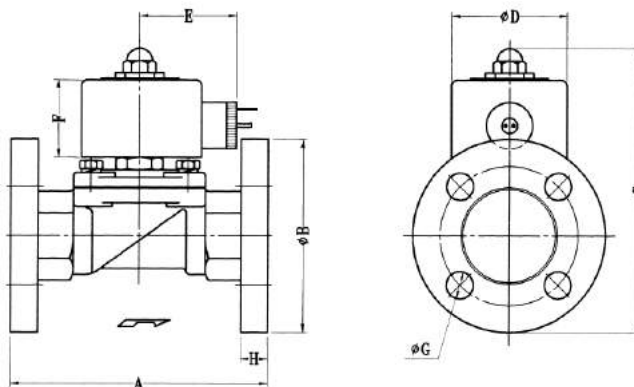
OVERALL DIMENSIONS



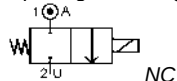
No.	Part No	Description
1	SP201*	Nut
2	SP202*	Washer
3	SP203*	Nameplate
5	SP205*	Coil
6	SP206*	Gasket
7	SP207*	Connector
8	SP208*	Core Tube
9	SP209*	Valve Bonnet
10	SP210*	Bolt
11	SP211*	Bonnet O Ring
12	SP212*	Armature Assembly
13	SP213*	Diaphragm Base Kit
14	SP214*	Diaphragm Base
15	SP215*	Diaphragm
16	SP216*	Base O Ring
17	SP217*	Valve Body

* = Valve Part Number

Model	A	B	C	D	G	H	Kg
ADS15F	110			40			
ADS20F	120			40			
ADS25F	130	125	162	40	19	14	5.35
ADS35F	160	135	174	40	19	16	7.75
ADS40F	160	140	177	40	19	16	8.00
ADS50F	200	155	195	40	19	16	11.0



Media: air – water – light oil
 Pressure range: 0 to 500 Bar max
 Media temperature: +80°C max
 Ambient temperature: -20°C to +50°C max
 Media viscosity: 40 centistokes max
 Mounting: Coil upright
 Weight (including coil): 400 g
 Opening or closing time: 20 mSec max



2/2 Stainless

1/8 – 1/4

NORMALLY CLOSED

2 WAY DIRECT/PILOT ACTING

500 Bar

TYPE EN520



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Pressure Rating (Bar) ΔP		Seals	Max Media Temp	Part Number	
		Kv Ltr/min	Min	Max				
1/8	0.7	0.175	0	300	PTFE + FKM	+80°C	EN52051 + voltage	
1/4	0.7	0.175	0	300			EN52050 + voltage	
1/8	0.7	0.175	0	350	VOLTALEF		EN52061 + voltage	
1/4	0.7	0.175	0	350			EN52060 + voltage	
1/8	0.6	0.15	10	400	PEEK	+150°C	EN520810685-0181 + voltage	
1/8	0.5	0.15	10	500			EN520810585-0181 + voltage	
1/4	0.6	0.15	10	400			EN520810685-0141 + voltage	
1/4	0.5	0.15	10	500			EN520810585-0141 + voltage	

OPTIONS

IP65 Coil + Connector PG9 – DIN 43650 A

NPT 1/8 + 1/4 thread

Explosion Proof Enclosure ATEX II 2 G/D EexdIICT6 or T4, IP65

Included

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12 - 24 - 48 - 110 - 230 (50 or 60 Hz)	31037	48 VA	24 VA	F 155°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 - 24 - 48 – 110 (DC)		13.7 Watts				

CONSTRUCTION

Body: Stainless steel

Tube and internal parts: Stainless steel

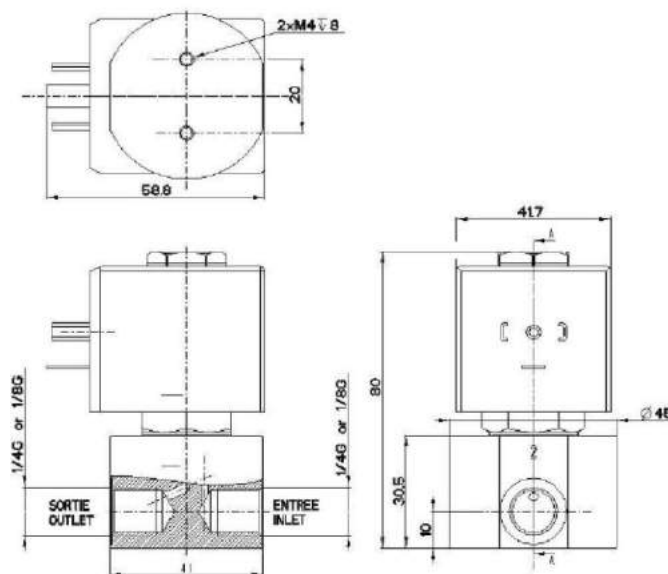
Seals and gaskets: PTFE + FKM, VOLTALEF or PEEK

Moulded coil: Resin

REPAIR KIT

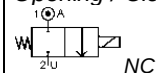
Coil	31037 + voltage
Complete plunger + O' rings	KIT + valve part number

OVERALL DIMENSIONS



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Media: air – water – gas – light oil - vacuum
 Pressure range: 0 to 15 Bar max
 Media temperature: 120°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 40 centistokes max
 Mounting: any position
 Weight (including coil) 125 g
 Opening / Closing: 10-20 mSec Max



2/2 Stainless

1/8

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 15 Bar

TYPE HA



PRESSURE

Ø Port BSPT	Ø Orifice (mm)	Flow Kv Ltr/Min	Pressure Rating (Bar) ΔP			Seals	Max Media Temp °C	Part Number	
			Min	AC Max	DC Max				
1/8	1.6	1.6	0	15	10	VITON NBR EPDM	80 50 120	HA1B-VITON + voltage HA1B-NBR + voltage HA1B-EPDM + voltage	
	2.4	2.0	0	9	5	VITON NBR EPDM	80 50 120	HA1C-VITON + voltage HA1C-NBR + voltage HA1C-EPDM + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 B

IP65 Coil with 30 cm Flying lead

NPT Thread

ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (50%Reduction in Working Pressure)

ELECTRICAL DATA

ELECTRICAL DATA							
Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12 - 24 - 48 - 110 - 230 - 415 (50 or 60 Hz)	22001	11.6 VA	8.5 VA	F 155°C	IP 65 with connector	3 spades DIN 43650B DIN 40050 VDE 0110
=	6 - 12 - 24 - 48 - 110 (DC)		4.8 Watts				

CONSTRUCTION

Body: AISI303 Stainless steel

Tube and internal parts: AISI 304 stainless steel

Head & plunger: 430Fr Stainless steel

Shading ring: Copper

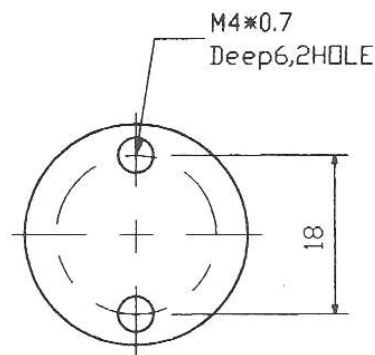
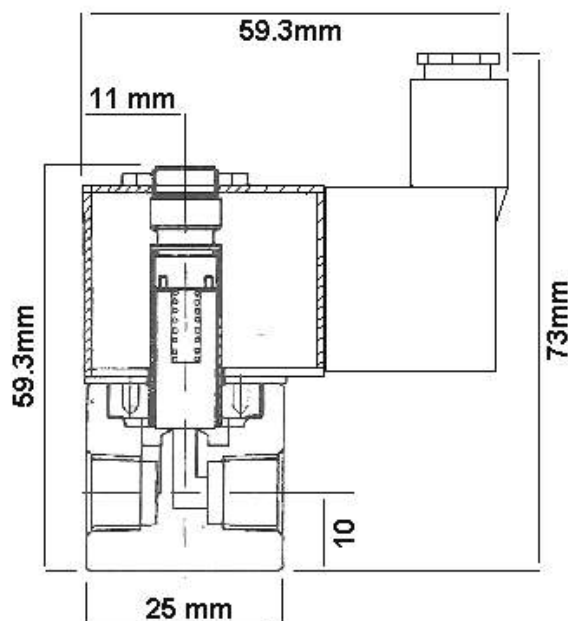
Seals and gaskets: Viton (Optional EPDM & NBR)

Moulded coil: Resin

REPAIR KIT

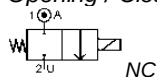
Coil	22001 + voltage
Complete plunger + O' rings	KIT + valve part number

OVERALL DIMENSIONS



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Media: air – water – gas – light oil - vacuum
 Pressure range: 0 to 30 Bar max
 Media temperature: 120°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 40 centistokes max
 Mounting: any position
 Weight (including coil) 280 g
 Opening / Closing time: 10-20 mSec Max



2/2 Stainless

1/8 – 1/4

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 30 Bar

TYPE JA



PRESSURE

Ø Port BSPT	Ø Orifice (mm)	Flow	Pressure Rating (Bar)				Seals	Max Media Temp °C	Part Number		
		Kv Ltr/Min	Min	10 Watt Coil		18 Watt Coil					
				Max AC	Max DC	Max AC					Max DC
1/8	1.6	1.6	0	20	15	30	20	NBR EPDM FKM	50 120 80	JA1BN + voltage + coil JA1BE + voltage + coil JA1BV + voltage + coil	
	2.4	2	0	10	9	20	15	NBR EPDM FKM	50 120 80	JA1CN + voltage + coil JA1CE + voltage + coil JA1CV + voltage + coil	
	3.2	2.8	0	7	6	15	10	NBR EPDM FKM	50 120 80	JA1DN + voltage + coil JA1DE + voltage + coil JA1DV + voltage + coil	
	4	4	0	5	4	10	8	NBR EPDM FKM	50 120 80	JA1EN + voltage + coil JA1EE + voltage + coil JA1EV + voltage + coil	
1/4	1.6	1.6	0	20	15	30	20	NBR EPDM FKM	50 120 80	JA2BN + voltage + coil JA2BE + voltage + coil JA2BV + voltage + coil	
	2.4	2	0	10	9	20	15	NBR EPDM FKM	50 120 80	JA2CN + voltage + coil JA2CE + voltage + coil JA2CV + voltage + coil	
	3.2	2.8	0	7	6	15	10	NBR EPDM FKM	50 120 80	JA2DN + voltage + coil JA2DE + voltage + coil JA2DV + voltage + coil	
	4	4	0	5	4	10	8	NBR EPDM FKM	50 120 80	JA2EN + voltage + coil JA2EE + voltage + coil JA2EV + voltage + coil	
	5	7.1	0	4	3	6	5	NBR EPDM FKM	50 120 80	JA2FN + voltage + coil JA2FE + voltage + coil JA2FV + voltage + coil	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 NPT and BSPT Thread
 31400 High Power 14 – 20 Watt coil
 PTFE Seals

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 48 - 110 - 230 - 415 (50 or 60 Hz)	11630	26 VA	14 VA	F 155°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 – 24 - 48 (DC)		10 Watts				
~	24 - 48 - 110 - 230 - 415 (50 or 60 Hz)	31400	48VA	26VA			
=	12 - 24 – 48 – 80 – 190 (DC)		14 – 20 Watts				

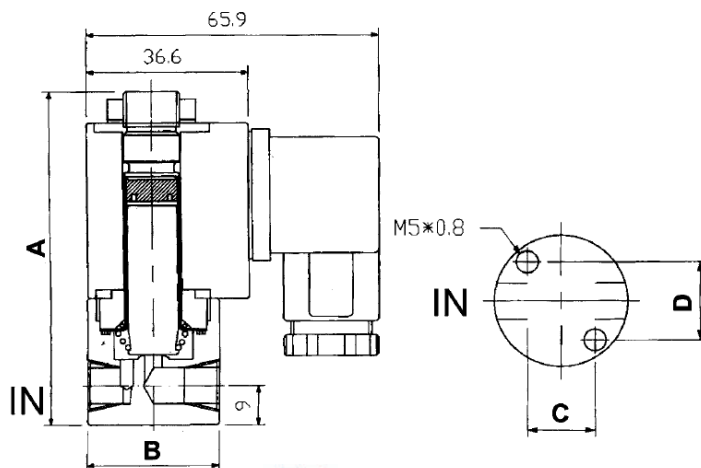
CONSTRUCTION

Body: AISI303 Stainless steel
 Tube and internal parts: AISI304 stainless steel, Head & plunger: AISI 430Fr Stainless steel
 Seals and gaskets: FKM (Optional EPDM & NBR), Moulded coil: Resin

REPAIR KIT

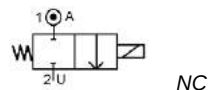
Coil	Coil size (11630 or 31400) + voltage
Armature + seal	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS



Port	A	B	C	D
1/8	76	30	15.2	17.8
1/4	77	35	16	22

Media: vacuum (10 Torr) - air – water – light oil
 Pressure range: 0 to 10 Bar max
 Media temperature: +90°C
 Ambient temperature: -30°C to +40°C (+50°C*)
 Media viscosity: 50 centistokes
 Mounting: preferred coil upright
 Opening / Closing 100 mSec Max



2/2 Stainless

3/8 – 2"

NORMALLY CLOSED

2 WAY ZERO RATED

0 – 10 Bar

TYPE MD316



PRESSURE

Ø Port BSPT	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (Bar)			Seals	Part Number	
			Min	Max Air/ Water	Max Oil			
1/2	16	61.7	0	10	7	EPDM NBR FKM	MD15316M16E + voltage MD15316M16N + voltage MD15316M16V + voltage	
3/4	23	105.0	0	10	7	EPDM NBR FKM	MD20316M16E + voltage MD20316M16N + voltage MD20316M16V + voltage	
1	28	133.3	0	10	7	EPDM NBR FKM	MD25316M16E + voltage MD25316M16N + voltage MD25316M16V + voltage	
1 1/4	32	217	0	10	7	EPDM NBR FKM	MD32316M16E + voltage MD32316M16N + voltage MD32316M16V + voltage	
1 1/2	40	338	0	10	7	EPDM NBR FKM	MD40316M16E + voltage MD40316M16N + voltage MD40316M16V + voltage	
2	50	533	0	10	7	EPDM NBR FKM	MD50316M16E + voltage MD50316M16N + voltage MD50316M16V + voltage	

OPTIONS

IP65 Coil & Connector PG11 – DIN 43650 A
 NPT Thread
 Without Shading Ring (DC voltages only)
 M17 Class N High Power Coil +50°C Ambient, 0 to 16 Bar (MDxx316M17 + seal + voltage)

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	70VA	35VA	F 155°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 - 24 – 48 - 125 (DC)		26 Watts				

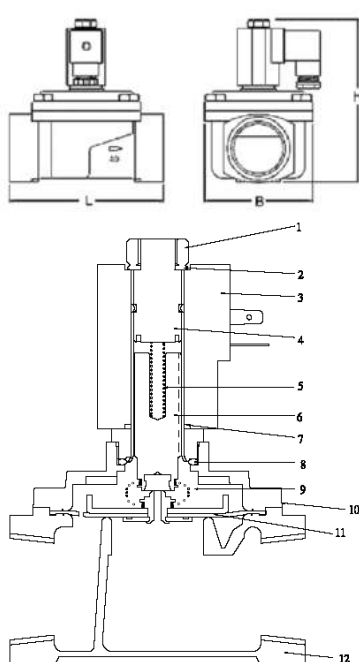
CONSTRUCTION

Body: 316 Stainless Steel (CF8M)
 Tube and internal parts: 304, 430F Stainless steel
 Seals and gaskets: EPDM (Optional NBR or Viton®)
 Shading Ring: Copper (Option for silver shading ring)
 Moulded coil: Resin F rated

REPAIR KIT

Diaphragm seal	MD + orifice + material
Coil	Coil type (M16 or M17) + voltage
Armature assembly	SP + Valve Part Number -ARMATURE

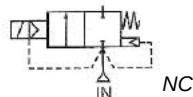
OVERALL DIMENSIONS



Model	Port	L	B	H	Kg
MD15	1/2	70	52	112	0.8
MD20	3/4	80	62	122	1
MD25	1	90	72	132	1.25
MD32	1 1/4	120	83	138	1.9
MD40	1 1/2	136	97	140	2.6
MD50	2	160	112	150	4

Part	Description	Material
1	Nut	SUS304
2	O Ring	NBR
3	IP65 Moulded Coil	
4	Packless Ass'y	SUS304
5	Plunger Spring	SUS304
6	Plunger	SUS304, KM31
7	O Ring	NBR
8	O Ring	NBR
9	Spring	SUS304
10	Valve Bonnet	3/8-1" C3771BE/SCS14 1 1/4 – 2" BC 6/SCS14
11	Diaphragm	SUS304, BSBF(SUS304) NBR, EPDM or Viton
12	Valve Body	3/8-1" C3771BE/SCS14 1 1/4 – 2" BC 6/SCS14

Media: air – water – light oil - vacuum
 Pressure range: 0 to 16 Bar max
 Media temperature: +40°C to +150°C max
 Ambient temperature: -20°C to +60°C max
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing Time: 50 mSec Max



2/2 Stainless Steel

3/8 – 3/4

**NORMALLY CLOSED
 2 WAY ZERO RATED**

0 – 7 or 12 Bar

TYPE SPU220®



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Pressure Rating (bar)					Seals	Max Media Temp. °C	Part Number	
		Kv Ltr/ min	Min	DC Coil		AC Coil					
				15 Watt	18.5 Watt	15 Watt	18.5 Watt				
3/8	13	35	0	5		7		NBR FKM EPDM	80 120 150	SPU22003 + voltage SPU22003V + voltage SPU22003E + voltage	
1/2	13	35	0	5		7		NBR FKM EPDM	80 120 150	SPU22004A + voltage SPU22004AV + voltage SPU22004AE + voltage	
3/4	20	72	0	5		7		NBR FKM EPDM	80 120 150	SPU22006A + voltage SPU22006AV + voltage SPU22006AE + voltage	
3/8	13	35	0		12		12	NBR FKM EPDM	80 120 150	SPU22003-18.5W + voltage SPU22003V-18.5W + voltage SPU22003E-18.5W + voltage	
1/2	13	35	0		12		12	NBR FKM EPDM	80 120 150	SPU22004A-18.5W + voltage SPU22004AV-18.5W + voltage SPU22004AE-18.5W + voltage	
3/4	20	72	0		16		16	NBR FKM EPDM	80 120 150	SPU22006A-18.5W + voltage SPU22006AV-18.5W + voltage SPU22006AE-18.5W + voltage	

OPTIONS

22003 IP65 CE approved 15 Watt Coil & Connector PG9 – DIN 43650 A Connector
 22005 IP65 CE approved 18.5 Watt Coil & Connector – DIN 43650 A Connector
 ATEX 22003EX Coil: ATEX EExmII T4 II 2G & 2D IP65 T130°C (Max ΔP 3 Bar)
 NPT Thread
 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	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12-24-48-110-220 (DC)		15 Watts				
~	24-48-110-230 (50/60 Hz)	22005	33VA	24VA			
=	12-24-48-110-220 (DC)		18.5 Watts				

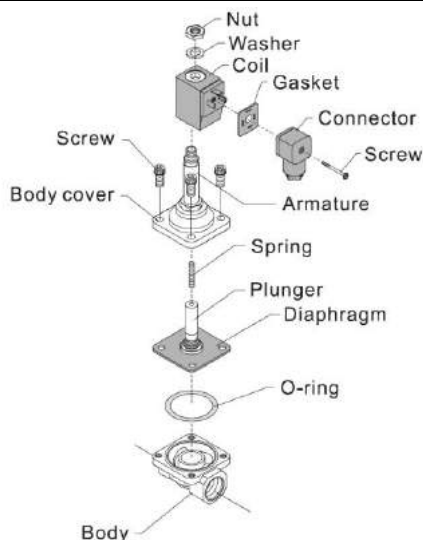
CONSTRUCTION

Body: 316 Stainless steel (1/2 & 3/4 ATEX certified body)
 Tube and internal parts: Stainless steel
 Seals and gaskets: FKM (Optional EPDM, NBR or HNBR)
 Nass Magnet Moulded coil: DuroPlast / ThermoSet Resin

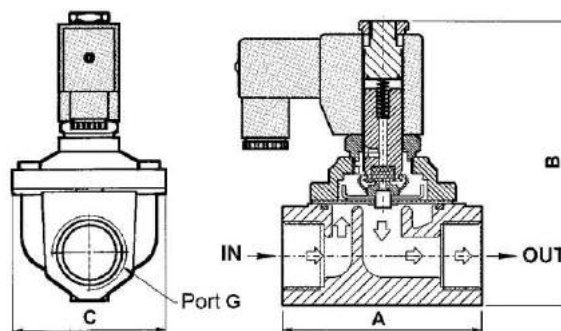
REPAIR KIT

Diaphragm seal	22004 or 22006 + seal material
Coil	Coil size (22003 or 22005) + voltage
Complete plunger assembly	225320 + seal material

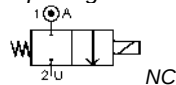
OVERALL DIMENSIONS



Model	SPU22003	SPU22004A	SPU22006A
Port R	3/8	1/2	3/4
A	66.5	66.5	71.0
B	101.0	101.0	107.0
C	48.0	48.0	58.0
Kg	0.74	0.715	0.945



Media: air – water – gas – light oil - vacuum
 Pressure range: 0 to 200 Bar max
 Media temperature: +100°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 40 centistokes max
 Mounting: any position
 Weight (including coil): 550 g
 Opening or closing time: 20 mSec max



2/2 Stainless

1/8 – 1/4

NORMALLY CLOSED 2 WAY DIRECT ACTING

0 – 200 Bar

TYPE WH



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/min	Pressure Rating (Bar)		Seals	Part Number	
			Min	Max			
1/8 or 1/4	0.6	0.2	0	200	NBR FKM EPDM	W0.6H + seal + port + voltage	
	0.8	0.3	0	120		W0.8H + seal + port + voltage	
	1	0.5	0	50		W1H + seal + port + voltage	
	1.2	0.67	0	40		W1.2H + seal + port + voltage	
	1.5	0.95	0	30		W1.5H + seal + port + voltage	
	2	1.6	0	20		W2H + seal + port + voltage	
	2.5	2.3	0	13		W2.5H + seal + port + voltage	
	3	3	0	10		W3H + seal + port + voltage	
	4	5	0	5		W4H + seal + port + voltage	
	5	7	0	3		W5H + seal + port + voltage	
3/8 or 1/2	6	9.7	0	2		W6H + seal + port + voltage	
	8	17	0	1		W6H + seal + port + voltage	
	12	30	0	0.5		W6H + seal + port + voltage	

OPTIONS

IP65 Coil + Connector PG9 – DIN 43650 A

NPT 1/8 + 1/4 Thread

PTFE Seals (up to 5mm orifice only)

Explosion Proof Enclosure ATEX II 2 G/D EExdIICT6, IP65 85°C (Ambient T° from -20°C to +40°C)

ELECTRICAL DATA

ELECTRICAL DATA							
Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12 - 24 - 48 - 110 - 230 (50 or 60 Hz)	31400	48 VA	24 VA	F 155°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 - 24 - 48 - 110- 190 (DC)		14 - 20 Watts				

CONSTRUCTION

Body: Stainless steel

Tube and internal parts: Stainless steel

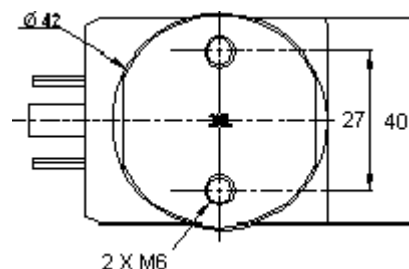
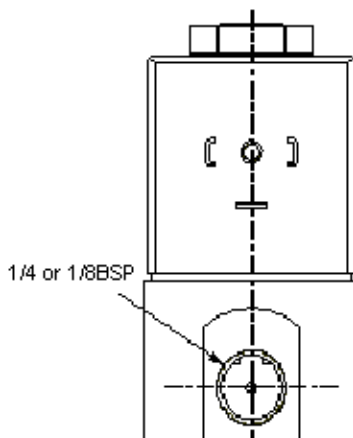
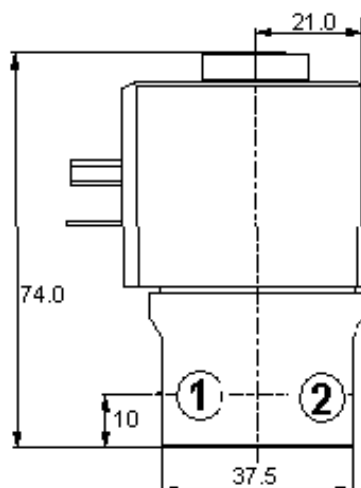
Seals and gaskets: NBR, EPDM or FKM

Moulded coil: Polyamide

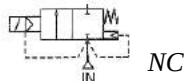
REPAIR KIT

Coil	31400 + voltage
Complete plunger + O' rings	KIT + valve part number

OVERALL DIMENSIONS



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

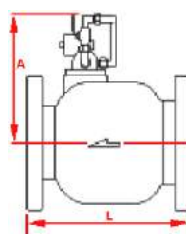
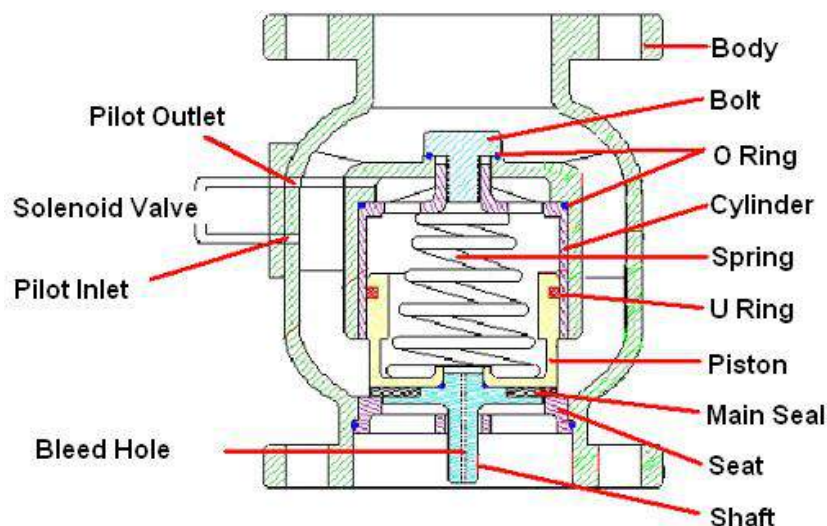
Seals and gaskets: NBR (+80°C max), Viton (+100°C max) or FFKM (+200°C max)

Control pipe work circuit + fittings: 304 stainless steel

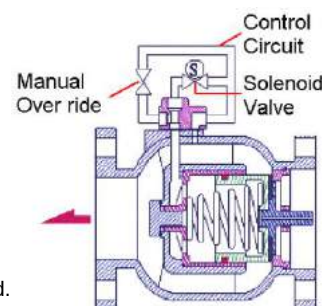
REPAIR KIT

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

OVERALL DIMENSIONS

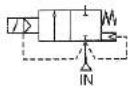


Port	L	A	Kg
DN50	190	187	12
DN65	210	192	15
DN80	225	210	18
DN100	250	222	24
DN125	280	235	32
DN150	310	260	44
DN200	420	300	87
DN250	470	335	152
DN300	530	370	202



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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				

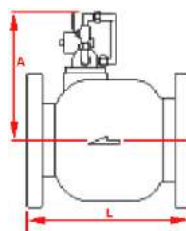
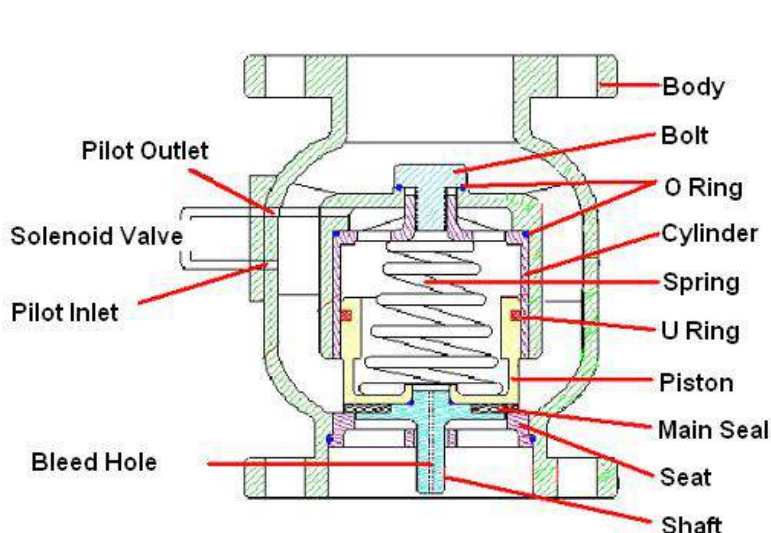
CONSTRUCTION

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

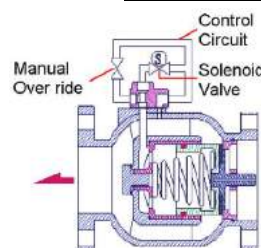
REPAIR KIT

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

OVERALL DIMENSIONS

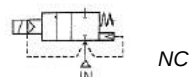


Port	L	A	Kg
DN50	190	187	12
DN65	210	192	15
DN80	225	210	18
DN100	250	222	24
DN125	280	235	32
DN150	310	260	44
DN200	420	300	87
DN250	470	335	152
DN300	530	370	202



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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

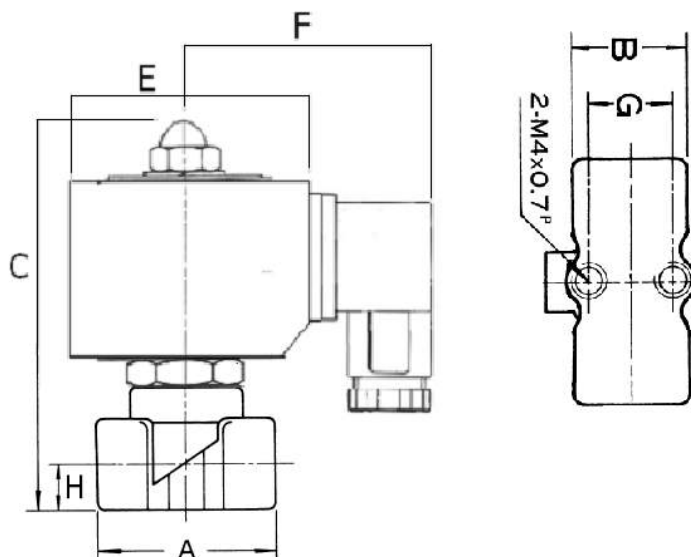
Body: 316 Stainless steel (CF8M)
 Tube: 304 stainless steel, armature 430F stainless steel
 Shading ring: copper
 Seals and gaskets: PTFE (Optional EPDM, NBR, SILICONE, VST, CR, ECO, HNBR and Hypalon)
 Moulded coil: Resin

REPAIR KIT

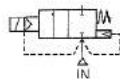
Armature	SP + Valve Part Number -ARMATURE
Coil	WPG2 + voltage

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



NC

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

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				

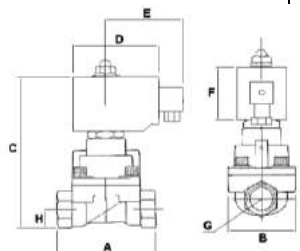
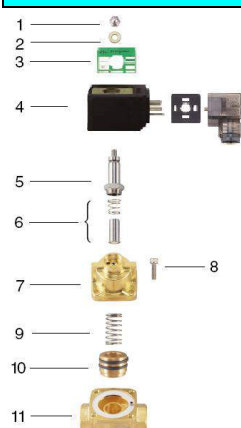
CONSTRUCTION

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

REPAIR KIT

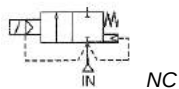
Coil	WPG2 + voltage
Piston	SP210 + valve part number

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				

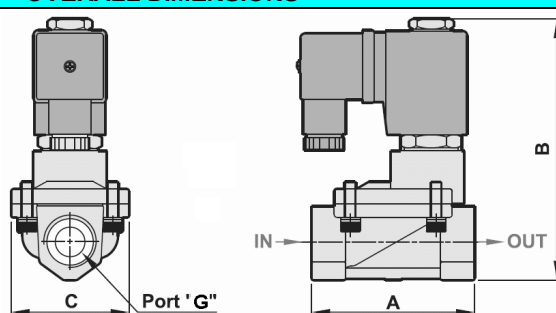
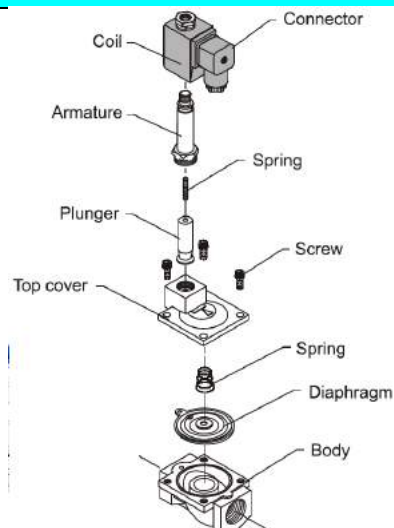
CONSTRUCTION

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

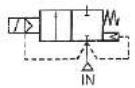
Diaphragm seal	225 + size code (03-20) + material
Coil	22003 + Voltage
Complete plunger + O' rings (Normally Closed)	225320VNC + seal material

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

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	Pressure Rating (Bar) ΔP		Max Working	Seals	Max Media Temp. °C	Part Number	
		Kv Ltr/Min	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				

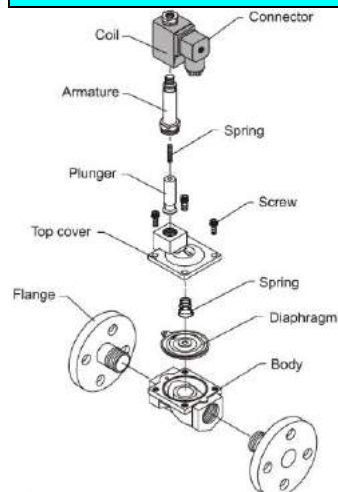
CONSTRUCTION

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

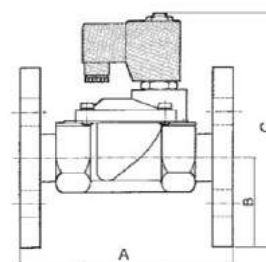
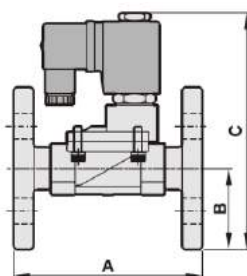
REPAIR KIT

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

OVERALL DIMENSIONS

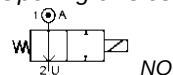


Model	SPU225 03F	SPU225 04F	SPU225 06F	SPU225 08F	SPU225 12F	SPU225 14F	SPU225 20F
Port	DN10	DN15	DN20	DN25	DN32	DN40	DN50
A	110	110	149	150	180	180	210
B	45	47.5	50	62.5	67.5	70	77.5
C	137	139.5	152.5	164	173.0	182.5	210
Kg	3.1	3.1	4.13	4.1	5.68	5.66	7.55



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Media: air – water – gas – light oil - vacuum
 Pressure range: 0 to 10 Bar max
 Media temperature: 120°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 40 centistokes max
 Mounting: any position
 Weight (including coil) 280 g
 Opening or Closing time: 6 - 20 mSec Max



2/2 Stainless

1/8 – 1/4

NORMALLY OPEN

2 WAY DIRECT ACTING

0 – 10 Bar

TYPE JAX



PRESSURE

Ø Port BSPT	Ø Orifice (mm)	Flow	Pressure Rating (Bar)			Seals	Max Media Temp °C	Part Number
		Kv Ltr/Min	Min	Max AC	Max DC			
1/8	1.6	0.8	0	10	7	NBR Viton EPDM	50 80 120	JA1BXN + voltage JA1BXV + voltage JA1BXE + voltage
	2.4	1.6	0	7	5	NBR Viton EPDM	50 80 120	JA1CXN + voltage JA1CXV + voltage JA1CXE + voltage
1/4	1.6	0.8	0	10	7	NBR Viton EPDM	50 80 120	JA2BXN + voltage JA2BXV + voltage JA2BXE + voltage
	2.4	1.6	0	7	5	NBR Viton EPDM	50 80 120	JA2CXN + voltage JA2CXV + voltage JA2CXE + voltage

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 NPT Thread
 Seals: Viton (optional NBR or EPDM)

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 48 - 110 - 230 - 415 (50 or 60 Hz)	31400	48 VA	26 VA	F 155°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 - 24 (DC)		14 – 20 Watts				

CONSTRUCTION

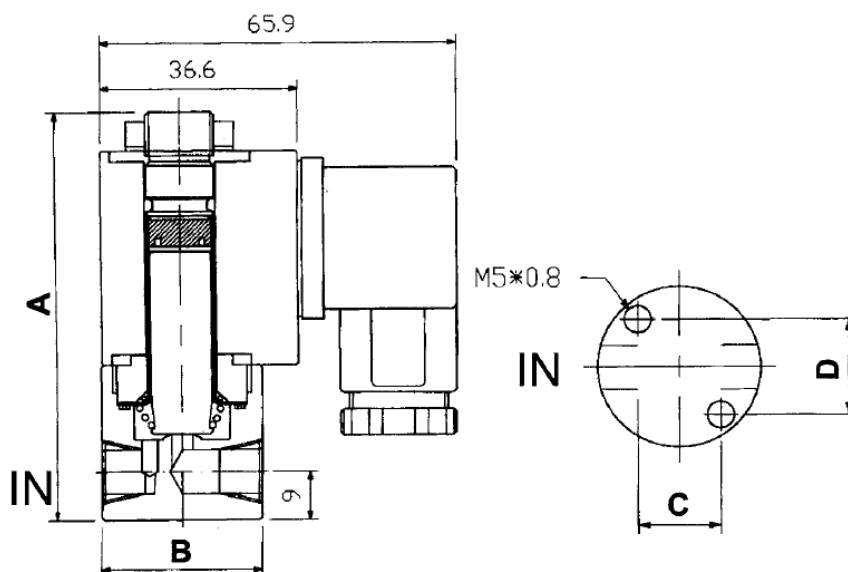
Body: AISI303 Stainless steel
 Tube and internal parts: stainless steel
 Head & plunger: 430Fr Stainless steel
 Seals and gaskets: FPM (Optional EPDM & NBR)
 Moulded coil: Resin

REPAIR KIT

Coil	31400 + voltage
Armature & Seal	SP + Valve Part Number -ARMATURE

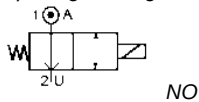
OVERALL DIMENSIONS

Port	A	B	C	D
1/8	89	30	15.2	17.8
1/4	91	35	16	22



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Media: air – water – light oil – vacuum (10⁻⁴ Torr)
 Pressure range: 0 to 10 Bar max
 Media temperature: 180°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 50 centistokes max
 Mounting: any position
 Opening Closing: 6-20 mSec Max



2/2 Stainless

1/8 – 1/2"

NORMALLY OPEN

2 WAY DIRECT ACTING

0 – 10 Bar

TYPE NOS612



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/min	Pressure Rating (Bar)			Max Media Temp °C	Part Number
			Min	AC Max	DC Max		
1/8	3.0	4	0	10	7	NBR (+80°C) EPDM (+100°C) FKM (+120°C) Silicone (+120°C)	NOS6A + seal + voltage
	4.0	5.5	0	6	4.2		NOS6B + seal + voltage
	5.0	7.2	0	4	2.8		NOS6C + seal + voltage
1/4	3.0	4	0	10	7	FKM (+120°C) Silicone (+120°C)	NOS8A + seal + voltage
	4.0	5.5	0	6	4.2		NOS8B + seal + voltage
	5.0	7.2	0	4	2.8		NOS8C + seal + voltage
3/8	4.0	5.5	0	6	4.2	*PTFE (+180°C)	NOS10A + seal + voltage
	6.0	10.5	0	2	1.4	*VST (+180°C)	NOS10B + seal + voltage
1/2	6.0	10.5	0	2	1.4		NOS12A + seal + voltage

OPTIONS

IP67 (EN60529:1991+A1:2000) UL & CSA Approved Coil & IP65 LED Connector PG11 – DIN 43650 A
 NPT Thread
 *PTFE seals 1/4 + 3/8
 *PTFE seals 1/2
 *VST, CR, ECO, HNBR or Hypalon Seals
 Silver shading ring (NOSXXX + seal + voltage)

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 110 - 230 (50/60 Hz)	WPG2	18.7VA	15.3VA	H 180°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 - 24 (DC)		18 Watts				

CONSTRUCTION

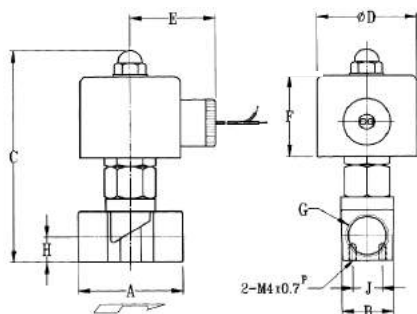
Body: Forged 316 stainless steel (CF8M)
 Tube 304 stainless steel, armature 430F stainless steel
 Shading ring: copper (Optional silver)
 Seals and gaskets: FKM (Optional EPDM - NBR – SILICONE – VST - PTFE)
 Moulded coil: Resin

REPAIR KIT

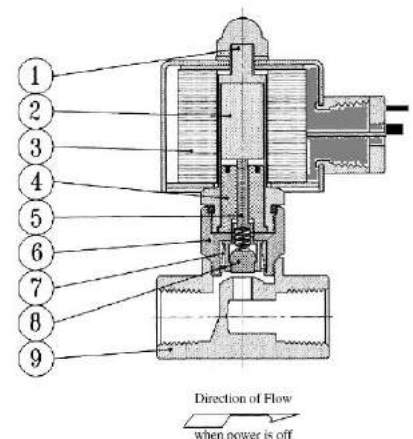
Coil	WPG2 + voltage
Armature Assembly	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS

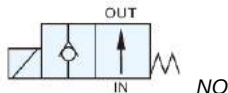
Model	A	B	C	D / E	F*	G	H	J	Kg
NOS8	41	19	108	40	38	1/4	10.5	15	0.5
NOS10	50	25	110	40	38	3/8	11.7	15	0.8
NOS12	55	27	112	40	38	1/2	13	n/a	0.95



Item	Article	Material
1	Solenoid Tube	Stainless
2	Slide Core	Stainless
3	Coil	Brass Wire
4	Armature Core	Stainless
5	Operating Spindle	Stainless
6	Joint Sleeve	Stainless
7	Spring	Stainless
8	Seat	NBR, Silicone, EPDM, FKM
9	Valve Body	316 Stainless



Media: air – water – light oil - vacuum
 Pressure range: 0 to 7 or 12 Bar max
 Media temperature: -40°C 150°C max
 Ambient temperature: -40°C to +60°C max
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing Time: 50 mSec Max



2/2 Stainless

3/8 – 1

NORMALLY OPEN

2 WAY ZERO RATED

0 – 7 or 12 Bar

TYPE NOSPU220



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Pressure Rating (Bar)				Seals	Max Media Temp. °C	Part Number	
		Kv Ltr/ min	Min	DC Coil	AC Coil					
				18.5 Watt	15 Watt	18.5 Watt				
3/8	13	35	0		7		NBR FKM EPDM	80 120 150	NOSPU22003 + voltage NOSPU22003V + voltage NOSPU22003E + voltage	
1/2	13	35	0		7		NBR FKM EPDM	80 120 150	NOSPU22004A + voltage NOSPU22004AV + voltage NOSPU22004AE + voltage	
3/4	20	72	0		7		NBR FKM EPDM	80 120 150	NOSPU22006A + voltage NOSPU22006AV + voltage NOSPU22006AE + voltage	
3/8	13	35	0	12		12	NBR FKM EPDM	80 120 150	NOSPU22003 + voltage +18W NOSPU22003V + voltage+18W NOSPU22003E + voltage+18W	
1/2	13	35	0	12		12	NBR FKM EPDM	80 120 150	NOSPU22004A + voltage+18W NOSPU22004AV + voltage+18W NOSPU22004AE + voltage+18W	
3/4	20	72	0	12		12	NBR FKM EPDM	80 120 150	NOSPU22006A + voltage+18W NOSPU22006AV + voltage+18W NOSPU22006AE + voltage+18W	

OPTIONS

22003 IP65 CE Approved Coil & Connector PG9 – DIN 43650 A Connector
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Max ΔP 3 Bar)
 NPT Thread
 HNBR seals same price as NBR & EPDM)

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 48 - 110 - 240 - 380 (50 or 60 Hz)	22003	23VA	17VA	H 180°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12 - 24 - 48 - 110 (DC)		15 Watts				
~	24 - 48 - 110 - 240 - 380 (50 or 60 Hz)	22005	33VA	24VA			
=	12 - 24 - 48 - 110 (DC)		18.5 Watts				

CONSTRUCTION

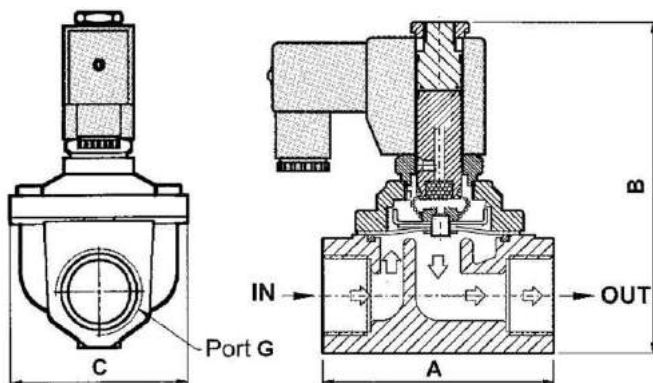
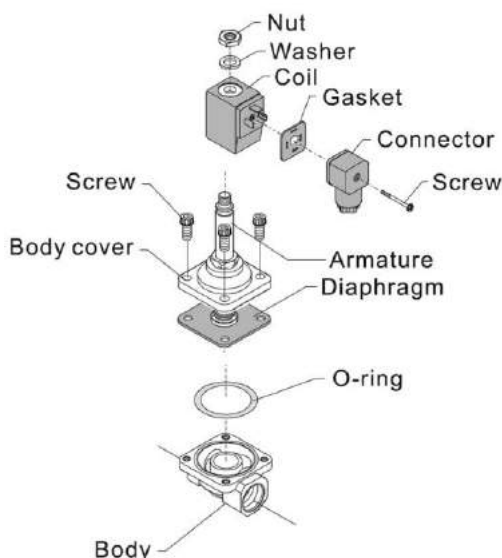
Body: 316 Stainless Steel (ATEX certified body ½ & ¾)
 Tube and internal parts: Stainless steel
 Seals and gaskets: FKM (Optional EPDM, NBR & HNBR)
 Nass Magnet Moulded coil: DuroPlast / ThermoSet Resin

REPAIR KIT

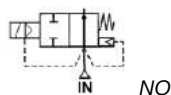
Diaphragm seal	22004 or 22006 + seal material
Coil	Coil size (22003 or 22005) + voltage

OVERALL DIMENSIONS

Model	NOSPU22003	NOSPU22004A	NOSPU22006A	NOSPU22008A
Port R	3/8	1/2	3/4	1
A	66.5	66.5	71.0	96.0
B	101.0	101.0	107.0	120.5
C	48.0	48.0	58.0	70.0
Kg	0.74	0.715	0.945	1.485



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
 Mounting: coil upright
 Opening Closing Time: 50 mSec Max



2/2 Stainless

3/8 – 2

NORMALLY OPEN

2 WAY SERVO ASSISTED

0.5 – 15 Bar

TYPE NOSPU225®



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	NOSPU22503AN + voltage NOSPU22503AV + voltage NOSPU22503AE + voltage	
1/2	13	40.0	0.5	10	15	NBR FKM EPDM	80 130 160	NOSPU22504AN + voltage NOSPU22504AV + voltage NOSPU22504AE + voltage	
3/4	25	165.0	0.5	10	15	NBR FKM EPDM	80 130 160	NOSPU22506AN + voltage NOSPU22506AV + voltage NOSPU22506AE + voltage	
1	25	165.0	0.5	10	15	NBR FKM EPDM	80 130 160	NOSPU22508AN + voltage NOSPU22508AV + voltage NOSPU22508AE + voltage	
1 1/4	40	450	0.5	10	15	NBR FKM EPDM	80 130 160	NOSPU22512AN + voltage NOSPU22512AV + voltage NOSPU22512AE + voltage	
1 1/2	40	450	0.5	10	15	NBR FKM EPDM	80 130 160	NOSPU22514AN + voltage NOSPU22514AV + voltage NOSPU22514AE + voltage	
2	50	580	0.5	10	15	NBR FKM EPDM	80 130 160	NOSPU22520AN + voltage NOSPU22520AV + voltage NOSPU22520AE + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C 
 NPT Thread
 Normally Open for RO / Pure/ Demin water (use 0543-83.6-00 with 22005 18.5 Watt DC Coil c/w DIN2R rectified connector for AC)

ELECTRICAL DATA

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

CONSTRUCTION

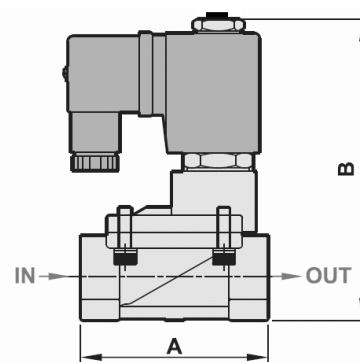
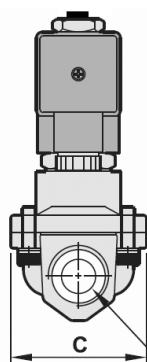
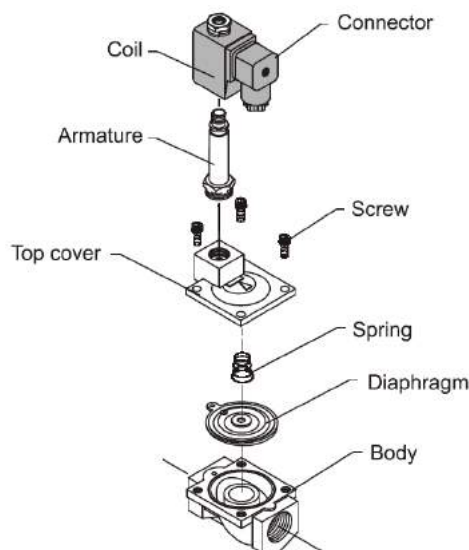
Body: 316 Stainless Steel (CF8M) ATEX Certified body
 Tube and internal parts: 304 + 430F Stainless steel
 Seals and gaskets: FKM (Optional NBR & EPDM & HNBR)
 Moulded coil: Duroplast / Thermo set resin

REPAIR KIT

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

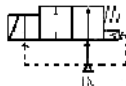
OVERALL DIMENSIONS

Model	NOSPU225 03 & 4A	NOSPU225 06A & 08A	NOSPU225 12A & 14A	NOSPU225 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



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Media: air – water – light oil – vacuum 10^{-3}
 Pressure range: 0 to 10 Bar max
 Media temperature: +120°C max
 Ambient temperature: -5° to +50°C max
 Media viscosity: 20 centistokes max
 Mounting: coil upright
 Opening / Closing 150 mSec Max



NO

2/2 Stainless

1/2 – 2"

NORMALLY OPEN

2 WAY ASSISTED CLOSE

0 – 10 Bar

TYPE SUW-NO



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (Bar) ΔP			Max Working	Seals	Part Number	
			Min	Max Water / Oil	Max Air / Gas				
1/2	15	75	0	5	7	10	NBR +80°C FKM +130°C Silicone +130°C EPDM +130°C	SUW15NON + voltage SUW15NOV + voltage SUW15NOS + voltage	
3/4	20	143	0	5	7	10		SUW20NON + voltage SUW20NOV + voltage SUW20NOS + voltage	
1	25	200	0	5	7	10		SUW25NON + voltage SUW25NOV + voltage SUW25NOS + voltage	
1 1/4	35	400	0	5	7	10		SUW35NON + voltage SUW35NOV + voltage SUW35NOS + voltage	
1 1/2	40	460	0	5	7	10		SUW40NON + voltage SUW40NOV + voltage SUW40NOS + voltage	
2	50	800	0	5	7	10		SUW50NON + voltage SUW50NOV + voltage SUW50NOS + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 NPT, BSPT

ELECTRICAL DATA

Voltage (AC -10% + 10%) (DC –1% + 1%) Continuous duty 90%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	110 – 230 (50 or 60 Hz)	WPC2	60VA	36VA	H 180°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	24 (DC)		29 Watts				

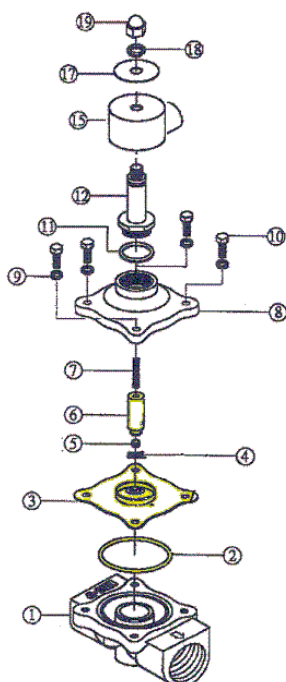
CONSTRUCTION

Body: 316 stainless steel (CF8M)
 Tube and internal parts: Stainless steel
 Seals and gaskets: FKM (Optional NBR or Silicone)
 Moulded coil: Resin

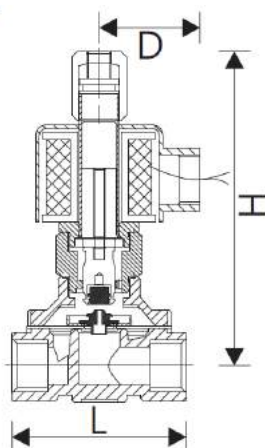
REPAIR KIT

Diaphragm seal	SUW + orifice + seal material
Coil	WPC2 + voltage
Armature assembly	SP + Valve Part Number -ARMATURE

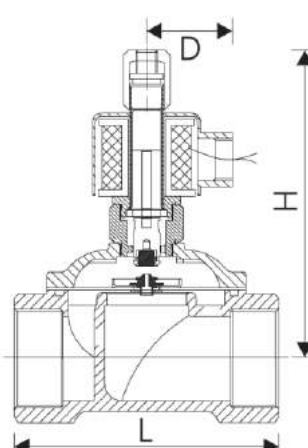
OVERALL DIMENSIONS



Port G	1/2	3/4	1	1 1/4	1 1/2	2
L	70	76	100	123	123	167
H	126	132	139	140	140	150
D	48	48	48	48	48	48
Width	56.5	78	78	94	94	120
Kg	1.1	1.2	1.8	3.2	3.5	5.4



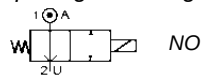
SUW15~25 NO



SUW-35~50 NO

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Media: air - water - light oil - vacuum
 Pressure range: 0 to 300 Bar max
 Media temperature: 100°C max
 Ambient temperature: -10° to +50°C max
 Media viscosity: 40 centistokes max
 Mounting: Vertical position coil up
 Weight (including coil): 500g
 Opening or closing time: 20 mSec max



2/2 Stainless

1/8 – 1/4

NORMALLY OPEN

2 WAYS DIRECT ACTING

0 – 300 Bar

TYPE WFH



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/Min	Coil	Pressure Rating (Bar)		Seals	Part Number	
				Min	Max			
1/8 Or 1/4	0.5	0.15	10065	0	300	PTFE NBR EPDM FKM	WF0.5H80 + port + voltage WF0.5H10 + port + voltage WF0.5H30 + port + voltage WF0.5H20 + port + voltage	
	0.6	0.20	31400	0	200	NBR FKM	WF0.6H10 + port + voltage WF0.6H20 + port + voltage	
	0.8	0.30		0	130	NBR FKM	WF0.8H10 + port + voltage WF0.8H20 + port + voltage	
	0.9	0.40		0	100	NBR FKM	WF0.9H10 + port + voltage WF0.9H20 + port + voltage	
	1	0.50		0	70	NBR FKM EPDM	WF1H10 + port + voltage WF1H20 + port + voltage WF1H30 + port + voltage	
	1.2	0.67		0	50	NBR FKM EPDM	WF1.2H10 + port + voltage WF1.2H20 + port + voltage WF1.2H30 + port + voltage	
	1.5	0.95		0	35	NBR FKM EPDM	WF1.5H10 + port + voltage WF1.5H20 + port + voltage WF1.5H30 + port + voltage	
	2	1.60		0	20	NBR FKM EPDM	WF2H10 + port + voltage WF2H20 + port + voltage WF2H30 + port + voltage	
	2.2	1.80		0	15	NBR FKM EPDM	WF2.2H10 + port + voltage WF2.2H20 + port + voltage WF2.2H30 + port + voltage	
	2.5	2.30		0	12	NBR FKM EPDM	WF2.5H10 + port + voltage WF2.5H20 + port + voltage WF2.5H30 + port + voltage	

OPTIONS

IP65 Coil & Connector DIN 43650 A PG9
 NPT 1/8 + 1/4 thread
 Seals and gaskets in PTFE
 Explosion Proof Enclosure ATEX II 2 G/D EexdIICT6, IP65

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
~			Inrush	Holding			
~	24-48-110-230 (50 / 60 Hz)	10065	48 VA	24 VA	F 155°C	IP 65 with connector	3 spades DIN 43650A DIN 40050 VDE 0110
=	12-24-48		14 W - 20 W				
~	24-48-110-230 (50 / 60 Hz)	31400	37VA	20VA			
=	12-24-48		14 – 20 Watts				

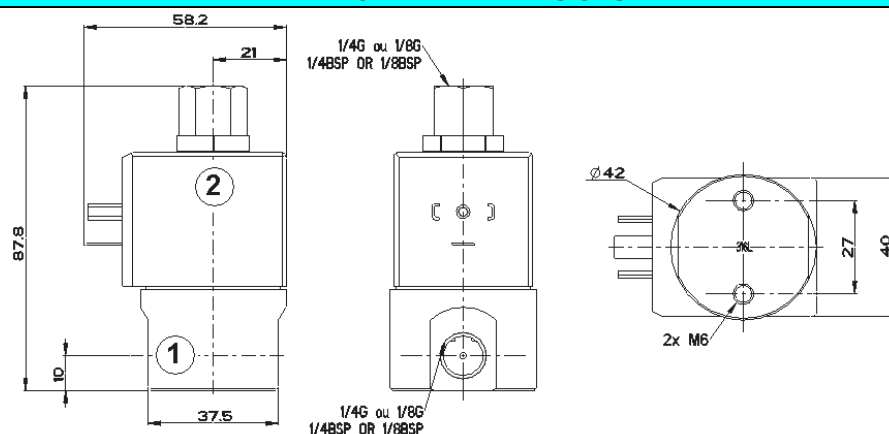
CONSTRUCTION

Body, tube and internal parts: Stainless Steel
 Seals and gaskets: NBR-FKM-EPDM
 Moulded coil: resin

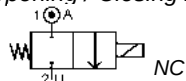
REPAIR KIT

Coil	10065 + voltage
Complete plunger	KIT + valve part number

OVERALL DIMENSIONS



Media: vacuum - air – water – steam
 Pressure range: 0 to 10 Bar max
 Media temperature: -10°C to +180°C Max
 Ambient temperature: -20°C to +50°C
 Media viscosity: 50 centistokes max
 Mounting: upright (+/- 15° from vertical)
 Opening / Closing 200 mSec Max



2/2 Bronze Steam

11/4 - 2

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 10 Bar

TYPE MK32-50S



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (bar)ΔP				Part Number
			Min	Max Steam	Max Air/ Water	Max Oil	
11/4	33	217	0	10	8	7	MK32SM20 + voltage
11/2	43	300	0	10	8	7	MK40SM20 + voltage
2	53	383	0	10	8	7	MK50SM20 + voltage

OPTIONS

IP65 Coil & Connector
 Flange PN16 or ANSI150Lb

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 50% 1 Hour Max		Coil	Power		Insulation class	Enclosure	Electrical Connections
			Inrush	Holding			
~	110 - 230 (50 or 60 Hz)	M20	79VA	48VA	H 180°C	IP65 with connector	3 spades DIN43650 DIN40050 VDE0110

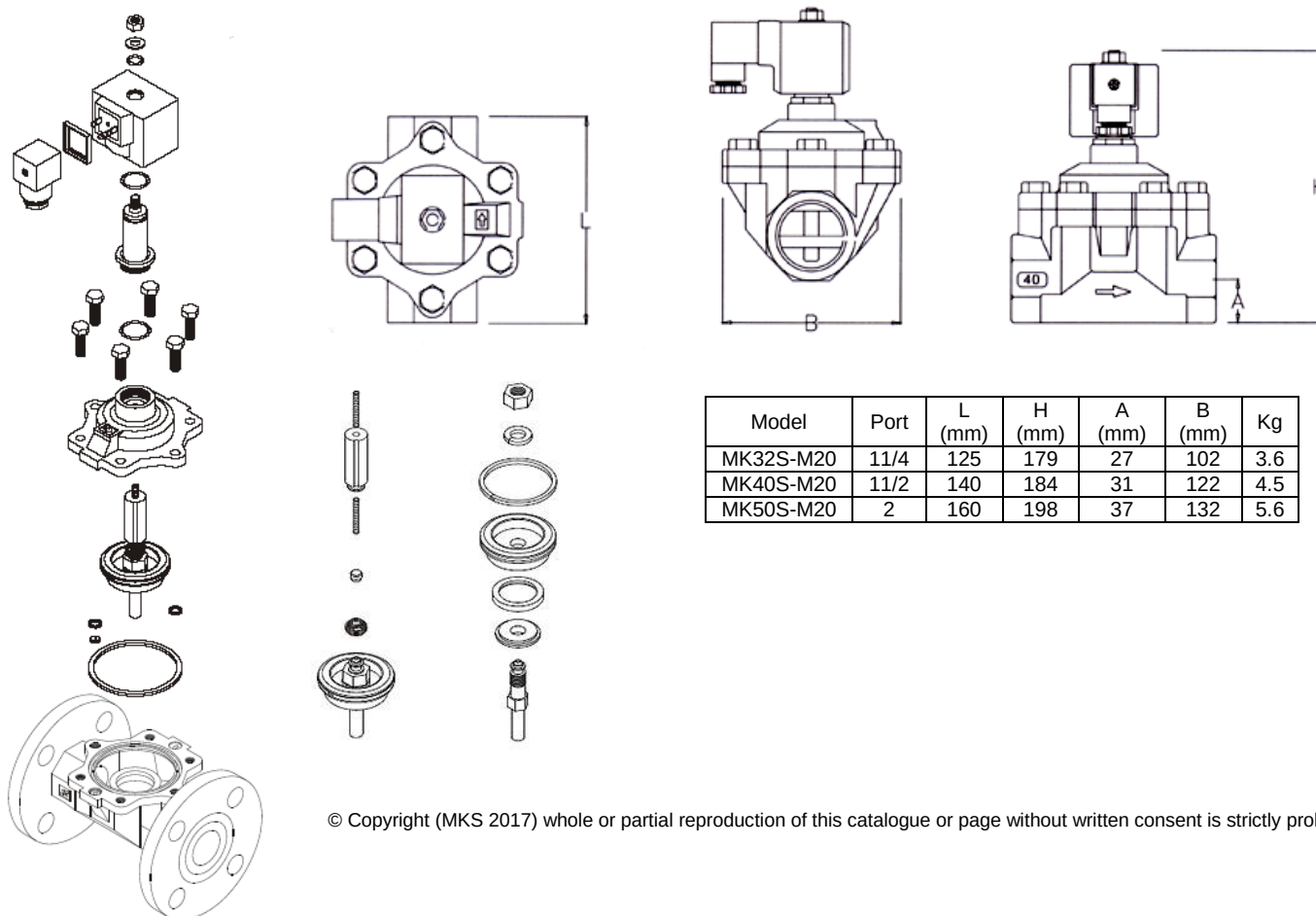
CONSTRUCTION

Body: Bronze BC6
 Piston: Stainless steel 303,304, KM31 and Bronze BC6, PTFE
 Tube: Stainless steel 304 & KM31
 Seals and gaskets: PTFE & Graphite impregnated PTFE

REPAIR KIT

Coil	M20 + Voltage
Complete plunger + O' rings	KIT + valve part number

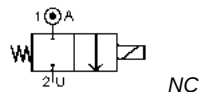
OVERALL DIMENSIONS



Model	Port	L (mm)	H (mm)	A (mm)	B (mm)	Kg
MK32S-M20	11/4	125	179	27	102	3.6
MK40S-M20	11/2	140	184	31	122	4.5
MK50S-M20	2	160	198	37	132	5.6

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Media: vacuum - air – water – steam
 Pressure range: 0 to 10 Bar max
 Media temperature: -70°C to +180°C Max
 Ambient temperature: -20°C to +50°C
 Media viscosity: 50 centistokes max
 Mounting: upright (+/- 15° from vertical)



2/2 Bronze Steam

1/2 – 1”

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 10 Bar

TYPE MKS



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/Min	Pressure Rating (Bar)				Part Number
			Min	Max Steam	Max Air / Water	Max Oil	
1/2	14	50	0	10	8	7	MK15SM17 + voltage
3/4	19	81	0	10	8	7	MK20SM17 + voltage
1	25	103	0	10	8	7	MK25SM17 + voltage

OPTIONS

IP65 Coil & PG11 DIN43650A Connector
 Flanged and other custom made options available upon request

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 90%		Coil	Power Consumption		Insulation class	Enclosure	Electrical Connections
			Inrush	Holding			
~	24 - 110 - 230 (50 or 60 Hz)	M17	35VA	26VA	H 180°C	IP65 With Connector	3 spades DIN43650 DIN40050 VDE0110
=	24 (DC)		19 Watts				

CONSTRUCTION

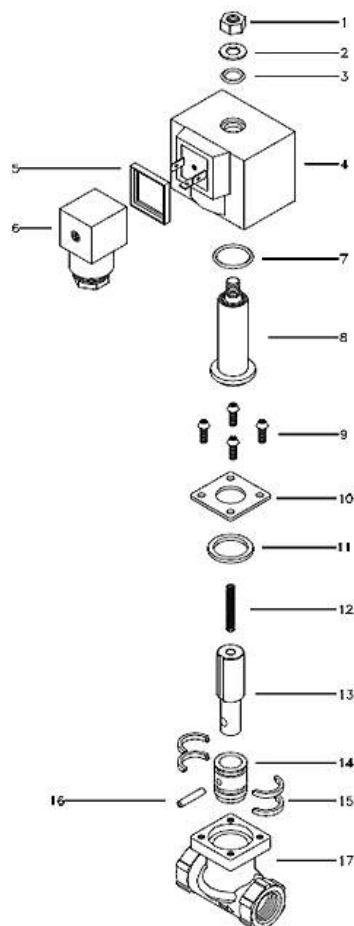
Body: Bronze BC6
 Piston: Stainless steel 303,304, KM31 and Bronze BC6, PTFE
 Tube: Stainless steel 304 & KM31
 Seals and gaskets: PTFE & Graphite impregnated PTFE

REPAIR KIT

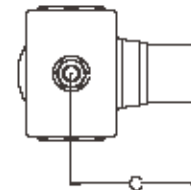
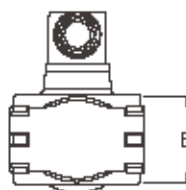
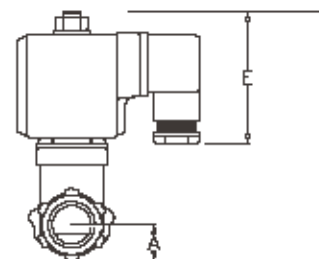
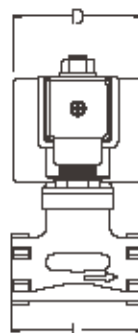
Coil	M17 + Voltage
Piston Kit	KIT + valve part number
Armature	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS

Model	L	H	A	B	C	D	Port	Kg
MK15M17S	63	120	17	30	65	60	1/2	0.95
MK20M17S	74	128	19	33			3/4	1.4
MK25M17S	88	133	24	41			1	1.7



NO.	Description	Material
1	Nut	BSBM
2	Washer	SPC
3	O ring	Viton
4	H Class IP65 coil	
5	Din Connector Gasket	
6	DIN Connector	
7	O ring	Viton
8	Core Tube	SUS304,KM-31
9	Bolts	SUS304
10	Plate	SPC
11	Packing	TEFLON
12	Plunger spring	SUS304
13	Armature	KM-31
14	Piston	BC 6
15	Piston ring	TEFLON
16	Sleeve pin	SUS303L
17	Valve body	BC 6



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Media: air – water – steam – light oil
 Pressure range: 0.3 to 10 Bar max
 Media temperature: -10°C to +180°C Max
 Ambient temperature: -20°C to +50°C
 Media viscosity: 50 centistokes max
 Mounting: upright (+/- 15° from vertical)
 Opening / Closing 200 mSec Max

2/2 Bronze Steam

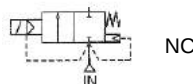
DN32 to DN50

NORMALLY CLOSED

2 WAY SERVO ACTING

0.3 – 10 Bar

TYPE MTFS



PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow	Pressure Rating (Bar)ΔP				Part Number	
		Kv Ltr/ min	Min	Max Steam	Max Air/ Water	Max Oil		
DN32	33	217	0.3	10	8	7	MT32FSM17 + voltage	
DN40	43	300	0.3	10	8	7	MT40FSM17 + voltage	
DN50	53	383	0.3	10	8	7	MT32FSM17 + voltage	

OPTIONS

IP65 Coil & Connector
 Flange ANSI150Lb or JIS10K

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 50% 1 Hour Max		Coil	Power Consumption		Insulation class	Enclosure	Electrical Connections
			Inrush	Holding			
~	24 - 110 - 230 (50 or 60 Hz)	M17	35VA	26VA	N 200°C	IP65 with connector	3 spades DIN43650 DIN40050 VDE0110
=	24 (DC)		19 Watts				

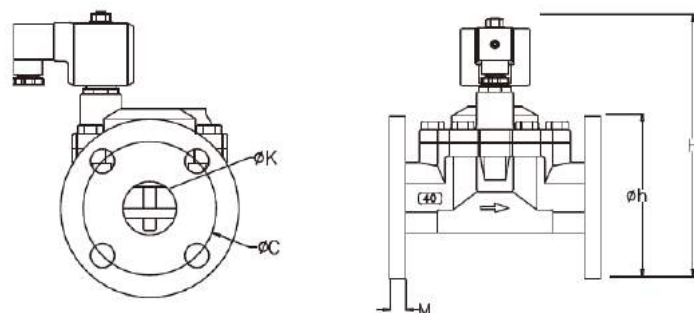
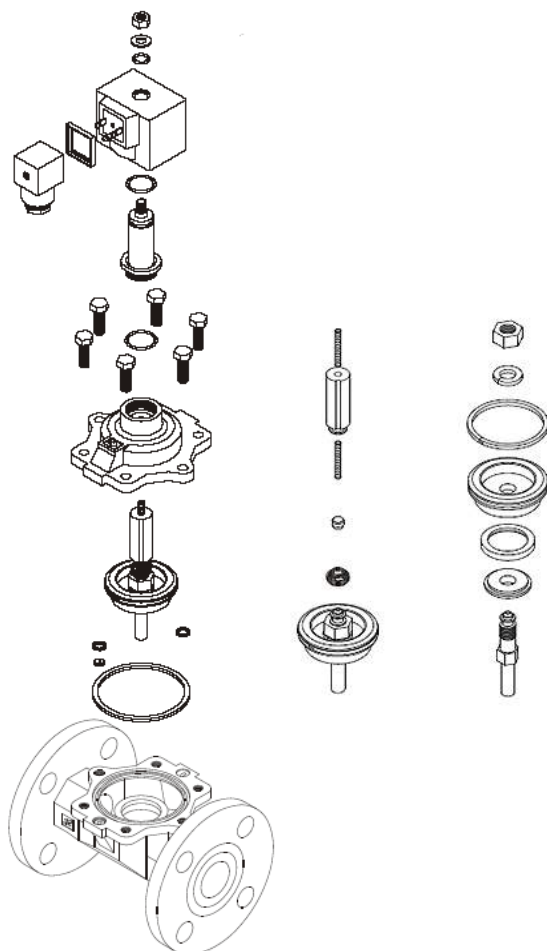
CONSTRUCTION

Body: Bronze BC6
 Piston: Stainless steel 303,304, KM31 and Bronze BC6, PTFE
 Tube: Stainless steel 304 & KM31
 Seals and gaskets: PTFE & Graphite impregnated PTFE

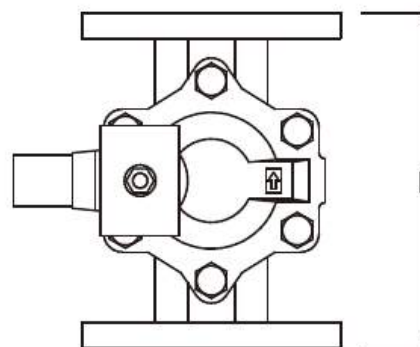
REPAIR KIT

Coil	M17 + Voltage
Complete plunger + O' rings	KIT + valve part number

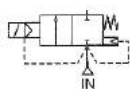
OVERALL DIMENSIONS



Model	Port	L (mm)	H (mm)	M (mm)	C (mm)	K (mm)	H (mm)
MT-32FS-M17	DN32	172	211	13	100	35	135
MT-40FS-M17	DN40	180	221	14	105	42	140
MT-50FS-M17	DN50	180	238	14	120	54	135



Media: air – water – steam – light oil
 Pressure range: 0.3 to 10 Bar max
 Media temperature: -10°C to +180°C Max
 Ambient temperature: -20°C to +50°C
 Media viscosity: 50 centistokes max
 Mounting: upright (+/- 15° from vertical)
 Opening / Closing 200 mSec Max



NC

2/2 Bronze Steam

1 1/4 - 2

NORMALLY CLOSED

2 WAY SERVO ASSISTED

0.3 – 10 Bar

TYPE MTS



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Pressure Rating (Bar)ΔP				Part Number
		Kv Ltr/ min	Min	Max Steam	Max Air/ Water	Max Oil	
1 1/4	33	367	0.3	10	8	7	MT32SM17 + voltage
1 1/2	43	500	0.3	10	8	7	MT40SM17 + voltage
2	53	800	0.3	10	8	7	MT32SM17 + voltage

OPTIONS

IP65 Coil & Connector
 Flange PN16, ANSI150Lb or JIS10K
 Normally open (+90C Max)

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 50% 1 Hour Max		Coil	Power Consumption		Insulation class	Enclosure	Electrical Connections
			Inrush	Holding			
~	24 - 110 - 230 (50 or 60 Hz)	M17	35VA	26VA	N 200°C	IP65 with connector	3 spades DIN43650 DIN40050 VDE0110
=	24 (DC) (12vdc with flying lead wires)		21 Watts				

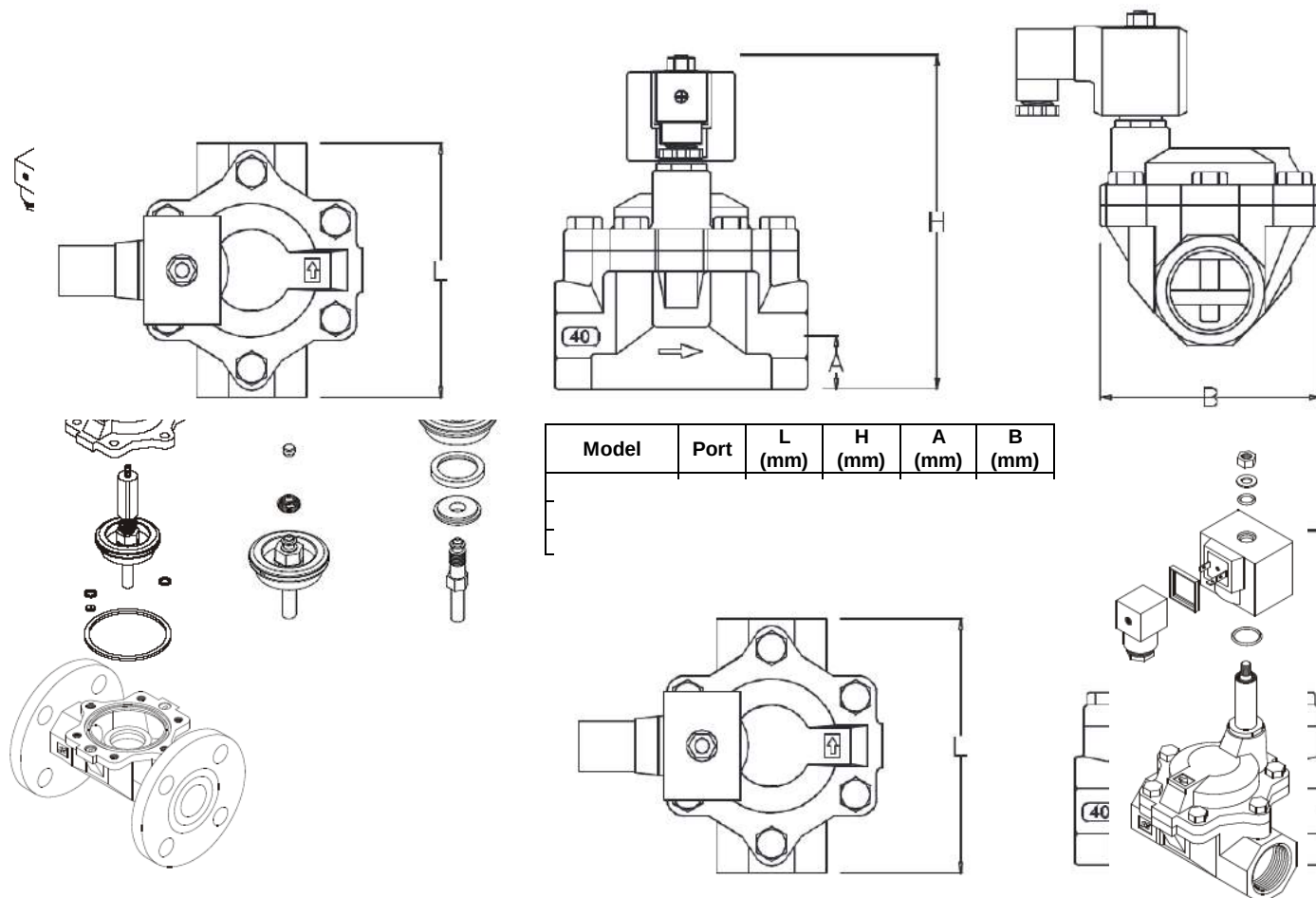
CONSTRUCTION

Body: Bronze BC6
 Piston: Stainless steel 303,304, KM31 and Bronze BC6, PTFE
 Tube: Stainless steel 304 & KM31
 Seals and gaskets: PTFE & Graphite impregnated PTFE

REPAIR KIT

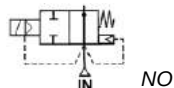
Coil	M17 + Voltage
Complete plunger + O' rings	KIT + valve part number

OVERALL DIMENSIONS



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Media: air – water – light oil - steam
 Pressure range: 0.5 to 20 Bar max
 Media temperature: +180°C Max
 Ambient temperature: -20° to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing 200 mSec Max



2/2 Steam

1/8 – 2

NORMALLY OPEN

2 WAY DIRECT/ SERVO

0 – 20 Bar

TYPE NOSA



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Coil	Pressure Rating (Bar) ΔP			Part Number	
		Kv Ltr/ min		Min	Max Steam	Max Air/ Water		
1/8	3	5.2	WPG1	0	10	10	NOSA6A + voltage	
1/4				0	10	10	NOSA8A + voltage	
3/8	4	9.7	WPG2	0	10	10	NOSA10A + voltage	
	15	75		0.5	12	20	NOSA14 + voltage	
1/2				0.5	12	20	NOSA15 + voltage	
3/4	20	155		0.5	12	20	NOSA20 + voltage	
1	25	220		0.5	12	20	NOSA25 + voltage	
1 1/4	35	433		0.5	12	20	NOSA35 + voltage	
1 1/2	35	433		0.5	12	20	NOSA40 + voltage	
2	50	800		0.5	12	20	NOSA50 + voltage	

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11 DIN43650A
 NPT Thread
 WPA3C IP65 (100% Rated N rated coil with 30cm flying leads 33.6 Watts 57VA)
 Other custom made options available upon request

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 90%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 110 - 230 (50 or 60 Hz)	WPG1	11.2VA	8.2VA	H 180°C	IP 65 With Connector	3 spades DIN 43650 DIN 40050 VDE0110
=	12 – 24 - 48 (DC)		12 Watts				
=	12 - 24 – 48 (DC)	WPG2	18.7VA	15.3VA			
~	24 - 110 - 230 (50 or 60 Hz)		18 Watts				

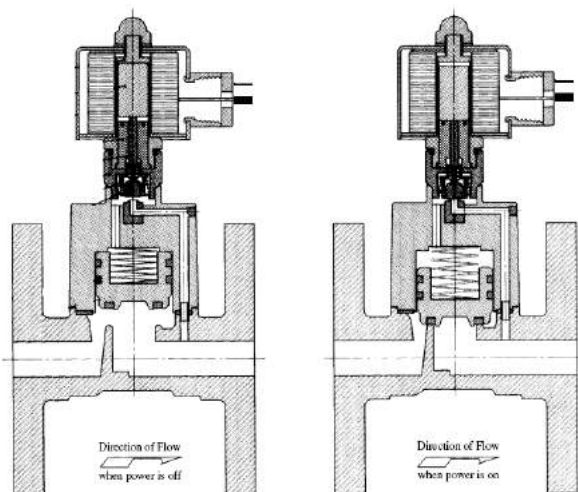
CONSTRUCTION

Body: Brass
 Tube and internal parts: Stainless steel
 Seals and gaskets: PTFE
 Moulded coil: Resin

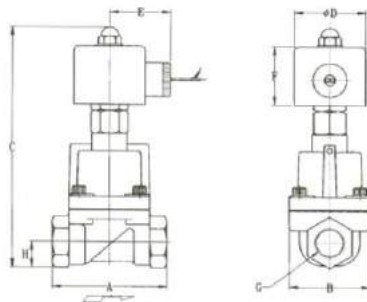
REPAIR KIT

Coil	Coil size (WPG1 or WPG2) + voltage
Piston	SP + Valve Part Number -PISTON
Armature assembly	SP + Valve Part Number -ARMATURE

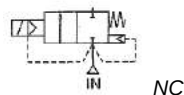
OVERALL DIMENSIONS



Model	A	B	C	D	E	F	G	H	Kg
NOSA6	41	19	86	41	40	-	1/8	10.5	0.35
NOSA8	41	19	86	41	40	-	1/4	10.5	0.4
NOSA10	50	25	91	52	45	-	3/8	11.7	0.5
NOSA14	75	52	158	40	65	38	3/8	15	1.65
NOSA15	75	52	158	40	65	38	1/2	15	1.63
NOSA20	85	60	165	40	65	38	3/4	18	2.13
NOSA25	100	70	172	40	65	38	1	23	2.35
NOSA35	120	90	192	40	65	38	1 1/4	33	3.85
NOSA40	120	90	192	40	65	38	1 1/2	33	3.3
NOSA50	150	120	216	40	65	38	2	40.5	7.35



Media: air – water – light oil - steam
 Pressure range: 0.5 to 15 Bar max
 Media temperature: -40°C to +180°C Max
 Ambient temperature: -20°C to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing time: 500 mSec Max



2/2 Steam

3/8 to 1

NORMALLY CLOSED

2 WAY SERVO ASSISTED

0.5 – 15 Bar

TYPE PU22503-08S®



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (Bar) ΔP			Part Number
			Min	Max Air/ Water	Max Steam	
3/8	13	75	0.5	15	10	PU22503S + voltage
1/2	13	75	0.5	15	10	PU22504S + voltage
3/4	25	200	0.5	15	10	PU22506S + voltage
1	25	200	0.5	15	10	PU22508S + voltage

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C 
 NPT Thread

ELECTRICAL DATA

Voltage (-10% + 10%) Duty rating 90%		Nass 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				

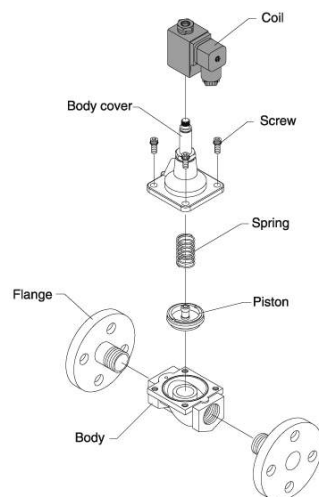
CONSTRUCTION

Body: Forged Brass, Tube and internal parts: Stainless steel
 Seals and gaskets: PTFE, Moulded coil: Duroplast / Thermo set resin

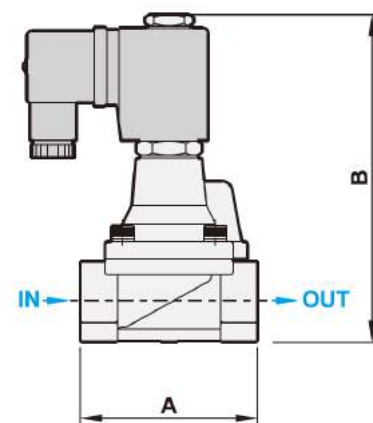
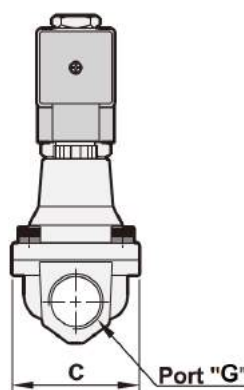
REPAIR KIT

Coil	22003 + Voltage
Complete plunger + O' rings	225320VPTFE
Piston	SP + Valve Part Number -PISTON

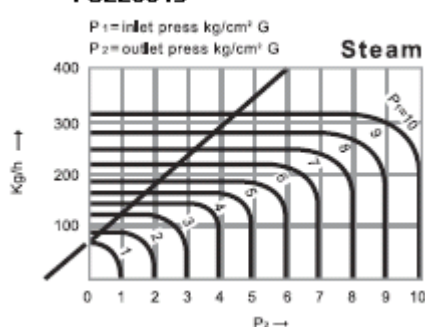
OVERALL DIMENSIONS



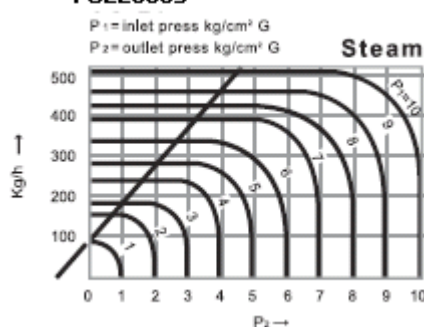
Port	A	B	C	Kg
3/8	66.5	106.5	48	0.86
1/2	66.5	106.5	48	0.84
3/4	96	126.5	70	1.8
1	96	126.5	70	1.75



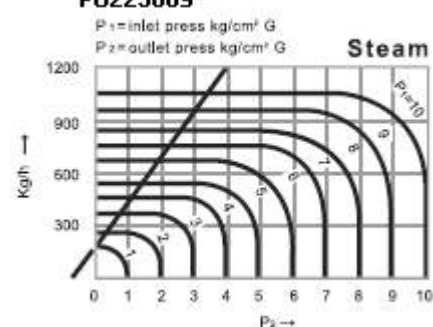
PU22504S



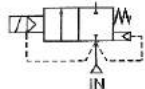
PU22506S



PU22508S



Media: air – water – light oil - steam
 Pressure range: 0.5 to 15 Bar max
 Media temperature: -40°C to +180°C Max
 Ambient temperature: -20° to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright



NC

2/2 Steam Flanged

DN10 – DN25
 NORMALLY CLOSED
 2 WAY SERVO ASSISTED
 0.5 – 15 Bar
 TYPE PU225SF®



PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (bar) ΔP			Part Number
			Min	Max Gas/Liquid	Max Steam	
DN10	13	75	0.5	15	10	PU22503SF4 + voltage
DN15	13	75	0.5	15	10	PU22504SF4 + voltage
DN20	25	200	0.5	15	10	PU22506SF4 + voltage
DN25	25	200	0.5	15	10	PU22508SF4 + voltage

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C
 Other Flanges ANSI150Lb (F3) or JIS10K (F)

ELECTRICAL DATA

Voltage (-10% + 10%) Duty rating 90%		Nass 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				

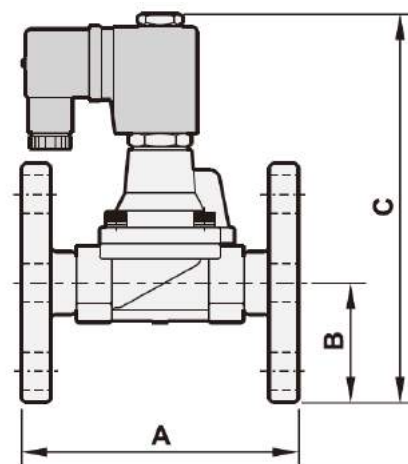
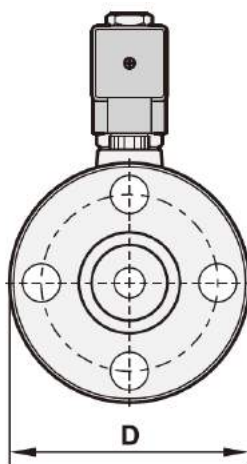
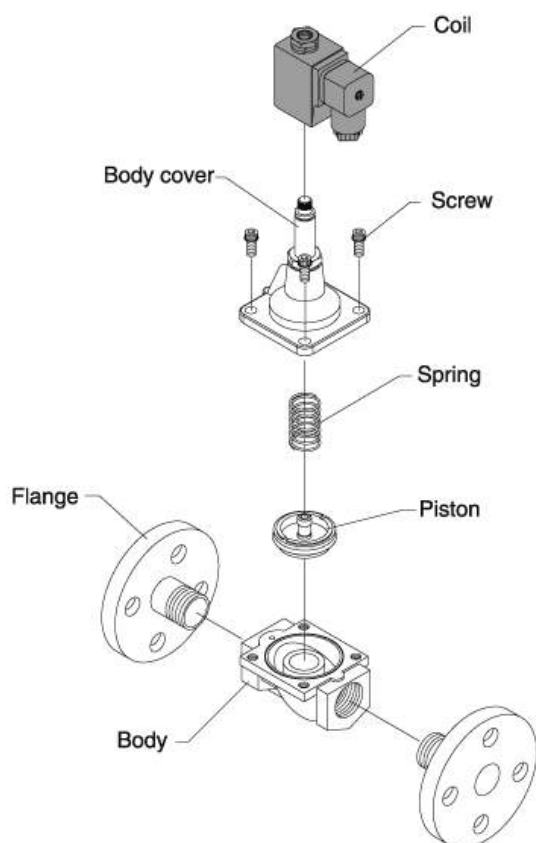
CONSTRUCTION

Body: Brass; Flanges Stainless Steel
 Tube, internal parts & piston: Stainless steel
 Seals and gaskets: PTFE
 Moulded coil: Duroplast / Thermo set resin

REPAIR KIT

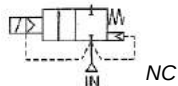
Coil	22003 + Voltage
Complete plunger + O' rings	225320VPTFE
Piston	SP + Valve Part Number – PISTON

OVERALL DIMENSIONS



Model	PU22503SF	PU22504SF	PU22506SF	PU22508SF
Flange	PN16	PN16	PN16	PN16
A	110	110	150	152.6
B	45	47.5	52.5	57.5
C	151.7	154.2	185.5	186
D	90	95	105	115
P	16	16	18	18
K	60	65	75	85
Kg	2.13	2.1	2.84	2.66

Media: air – water – light oil - steam
 Pressure range: 0.5 to 20 Bar max
 Media temperature: +200°C Max*
 Ambient temperature: -40° to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing 200 mSec Max



2/2 Steam

3/8 - 2

NORMALLY CLOSED

2 WAY SERVO ASSISTED

0.5 – 20 Bar

TYPE SA



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (Bar) Max ΔP			Part Number
			Min	Steam	Air/ Water	
3/8	15	75	0.5	12	20	SA14 + voltage
1/2	15	75	0.5	12	20	SA15 + voltage
3/4	20	155	0.5	12	20	SA20 + voltage
1	25	220	0.5	12	20	SA25 + voltage
1 1/4	35	433	0.5	12	20	SA35 + voltage
1 1/2	35	433	0.5	12	20	SA40 + voltage
2	50	800	0.5	12	20	SA50 + voltage

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector DIN43650A PG11
 NPT Thread
 ATEX EExmIT4 II 2G & 2D IP65 T130°C 10 Bar Max (20 Bar is special option)
 WPA3C IP65 (100% Rated H rated IP54 coil with 30cm flying leads 33.6 Watts 57VA +200°C media)
 Manual Over ride circuit
 Stainless Steel Body, High Pressure, Flanged, normally open and other custom made options available upon request

ELECTRICAL DATA

Voltage (-10% + 10%) WPG2 duty 90%, WPA3C 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 110 - 230 (50/ 60 Hz) DIN	WPG2	18.7VA	15.3VA	H 180°C	IP 65 With Connector	3 spades DIN 43650 DIN 40050 VDE0110
=	12 – 24 (DC)		18 Watts				
~	24 - 110 - 230 (50 60 Hz)	WPA3C	88VA	57VA	N 200°C	IP54	30cm lead wires
=	12 – 24 (DC)		33.6 Watts				

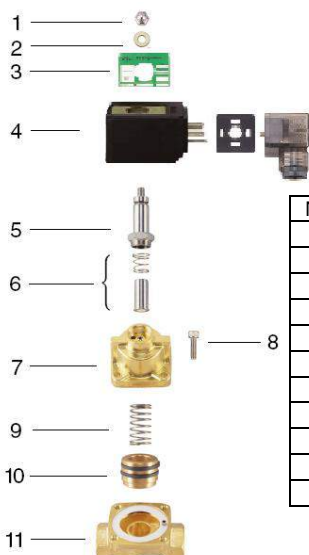
CONSTRUCTION

Body: Brass, Tube and Spring: 304 Stainless Armature: 430F Stainless Other internal parts: Stainless steel
 Seals and gaskets: PTFE, Moulded coil: Resin

REPAIR KIT

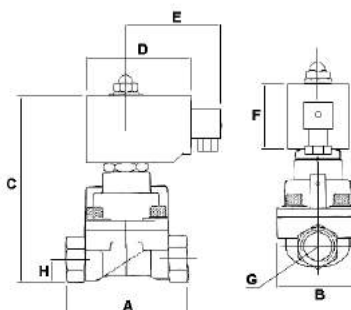
Coil	Coil type (WPG2 or WPA3C) + voltage
Piston	SP210 + Valve Part Number

OVERALL DIMENSIONS

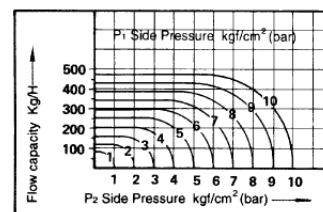


No.	Part Ref	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
4	WPG2	Coil
5	SP205-*	Core Tube
6	SP206-*	Armature
7	SP207-*	Valve Bonnet
8	SP208-*	Screw
9	SP209-*	Spring
10	SP210-*	Piston
11	SP211-*	Valve Body

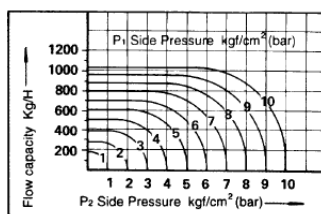
Model	A	B	C	D	E	F	G	H	Kg
SA14	67	48	123	67	52	42	3/8	15	1.13
SA15	67	48	123	67	52	42	1/2	15	1.1
SA20	96	72	149	67	52	42	3/4	25	1.53
SA25	96	72	149	67	52	42	1	25	1.85
SA35	120	90	168	52	45	41	1 1/4	33	3.3
SA40	120	90	168	52	45	41	1 1/2	33	3.25
SA50	150	122	203	52	45	41	2	40.5	6.8



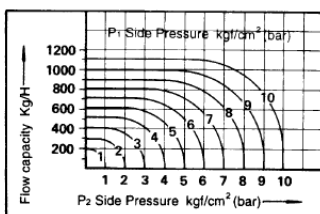
● Fluid:Steam SA-14.15



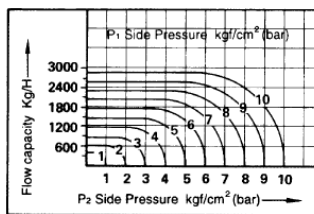
● Fluid:Steam SA-20



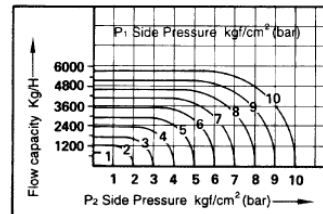
● Fluid:Steam SA-25(AF)



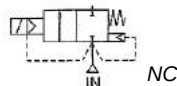
● Fluid:Steam SA-35.40(AF)



● Fluid:Steam SA-50(AF)



Media: air – water – light oil – steam
 Pressure range: 0 to 10 Bar max
 Media temperature: +180°C Max
 Ambient temperature: -30°C to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing 200 mSec Max



2/2 Steam

1/8 – 3/8

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 10 Bar

TYPE SA610



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Coil	Pressure Rating (Bar)		Seals	Part Number	
				Min	Max			
1/8	3	5.2	WPG1	0	10	PTFE	SA6A + voltage	
1/4	3	5.2	WPG1	0	10	PTFE	SA8A + voltage	
3/8	4	9.7	WPG2	0	10	PTFE	SA10A + voltage	

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector DIN43650A PG11
 NPT Thread
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C
 WPA3C IP65 (100% Rated H rated IP54 coil with 30cm flying leads 33.6 Watts 57VA +200°C media) SA10A only
 Other custom made options available upon request

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 90%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 110 - 230 (50 or 60 Hz) DIN	WPG1	11.2VA	8.2VA	H 180°C	IP 65 With Connector	3 spades DIN 43650 DIN 40050 VDE0110
=	12 – 24 (DC) DIN		12 Watts				
~	24 - 110 - 230 (50 or 60 Hz) DIN	WPG2	18.7VA	15.3VA			
=	12 – 24 (DC) DIN		18 Watts				

CONSTRUCTION

Body: Brass
 Tube and internal parts: Stainless steel
 Seals and gaskets: PTFE
 Moulded coil: Resin

REPAIR KIT

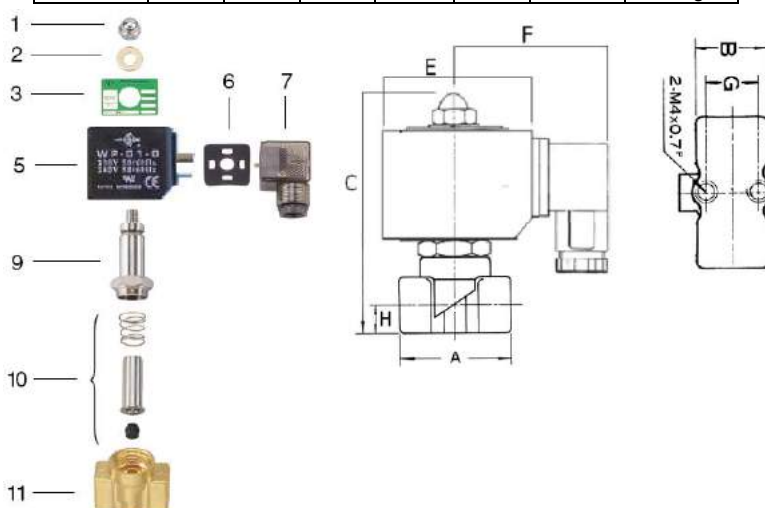
Coil	(WPG1 or WPG2) + voltage
Armature	SP210 + Valve Part Number

OVERALL DIMENSIONS

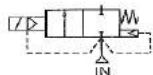
Item	Part No	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
5	SP205-*	Coil
6	SP206-*	Gasket
7	SP207-*	Connector
9	SP209-*	Core Tube
10	SP210-*	Armature Assembly
17	SP211-*	Valve Body

* = Valve Part Number

Model	A	B	C	F	G	H	Weight
SA6	41	19	86	40	1/8	10.5	470g
SA8	41	19	86	40	1/4	10.5	430g
SA10	50	25	91	45	3/8	11.7	560g



Media: air – water – light oil - steam
 Pressure range: 0.5 to 20 Bar max
 Media temperature: +200°C Max
 Ambient temperature: -30°C to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright



NC

2/2 Steam Flanged

DN25 – DN50

NORMALLY CLOSED

2 WAY SERVO ASSISTED

0.5 – 20 Bar

TYPE SAF



PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (Bar) ΔP			Part Number	
			Min	Max Steam	Max Air/ Water		
DN25	25	220	0.5	12	20	SA25PF + voltage	
DN32	35	433	0.5	12	20	SA35PF + voltage	
DN40	35	433	0.5	12	20	SA40PF + voltage	
DN50	50	800	0.5	12	20	SA50PF + voltage	

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved Coil & IP65 LED Connector PG11
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C 10 Bar Max
 WPA3C IP65 (100% Rated H rated coil with 30cm flying leads 33.6 Watts 57VA)
 ANSI150Lb, JIS10K or other flange
 Other custom made options available upon request

ELECTRICAL DATA

Voltage (-10% + 10%) WPG duty 90% WPA3C 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
=	12 – 24 – 48 - 110 DC DIN	WPG2	18.7VA	15.3VA	H 180°C	IP 65 With connector	3 spades DIN 43650 DIN 40050 VDE0110
~	24 - 110 – 240 - 380 (50/ 60 Hz) DIN		18 Watts				
~	24 - 110 - 230 (50 60 Hz)	WPA3C	88VA	57VA	N 200°C	IP54	30cm lead wires
=	12 – 24 (DC)		33.6 Watts				

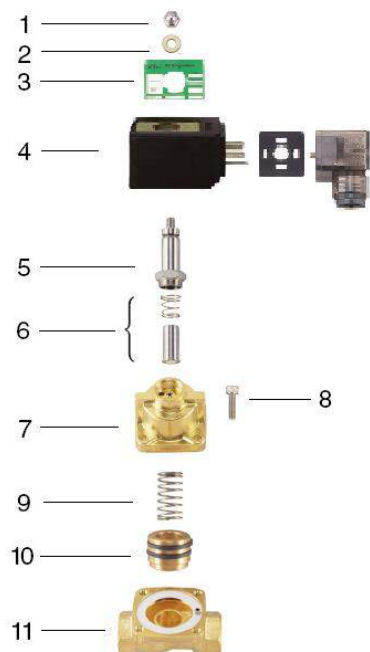
CONSTRUCTION

Body: Brass, Tube and internal parts: Stainless steel
 Seals and gaskets: PTFE, Moulded coil: Resin

REPAIR KIT

Coil	WPG2 + voltage
Piston	SP210 + Valve Part Number

OVERALL DIMENSIONS



● Spare Parts Table

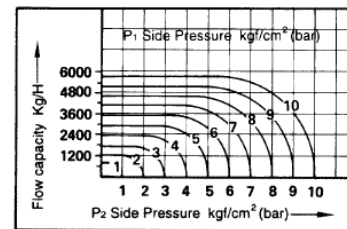
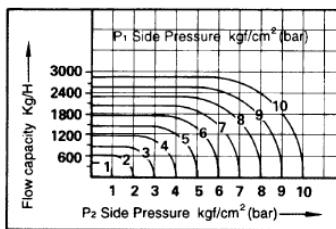
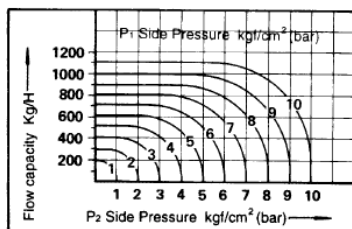
Item	Order No.	Description
1	SP-201- *	Nut
2	SP-202- *	Washer
3	SP-203- *	Nameplate
4	SP-204- *	Coil
5	SP-205- *	Solenoid Tube
6	SP-206- *	Armature Core
7	SP-207- *	Valve Bonnet
8	SP-208- *	Screw
9	SP-209- *	Spring
10	SP-210- *	Piston
11	SP-211- *	Valve Body

* Model Number

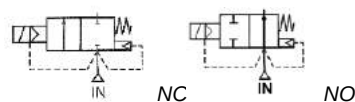
● Fluid: Steam SA-25(AF)

● Fluid: Steam SA-35.40(AF)

● Fluid: Steam SA-50(AF)



Media: steam - air - water - gas - light oil
 Pressure range: 0.5 to 10 Bar max
 Media temperature: +185°C max
 Ambient temp: -10°C to +50°C max
 Media viscosity: 20 centistokes max
 Mounting: coil upright
 Suitable for high frequency applications



2/2 Stainless Steam

1/2 - 2

N/CLOSED + N/OPEN
 2 WAY SERVO ASSIST

0.5 – 10 Bar

TYPE SUS



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Pressure Rating (Bar) ΔP		Part Number
		Kv Ltr/min	Min	Max	
1/2	17	67	0.5	10	SUS15 + voltage
3/4	17	100	0.5	10	SUS20 + voltage
1	22	200	0.5	10	SUS25 + voltage
1 1/4	30	300	1	10	SUS35 + voltage
1 1/2	30	367	1	10	SUS40 + voltage
2	50	800	1	10	SUS50 + voltage

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A

BSPT + NPT Threads

Normally Open (No ATEX option)

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (Type SKSXX)

ELECTRICAL DATA

ELECTRICAL DATA							
Voltage (-10% + 10%) Continuous duty 90%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 110 - 230 – 380 (50 or 60 Hz)	WPC2D	40VA	24.4VA	H 180°C	IP65 with Connector	3 spades DIN43650A DIN40050 VDE0110
=	12 - 24 (DC)		18 Watts				

CONSTRUCTION

Body: Forged 316 stainless steel (CF8M)

Tube 304 stainless steel, armature 430F stainless steel

Shading ring: copper

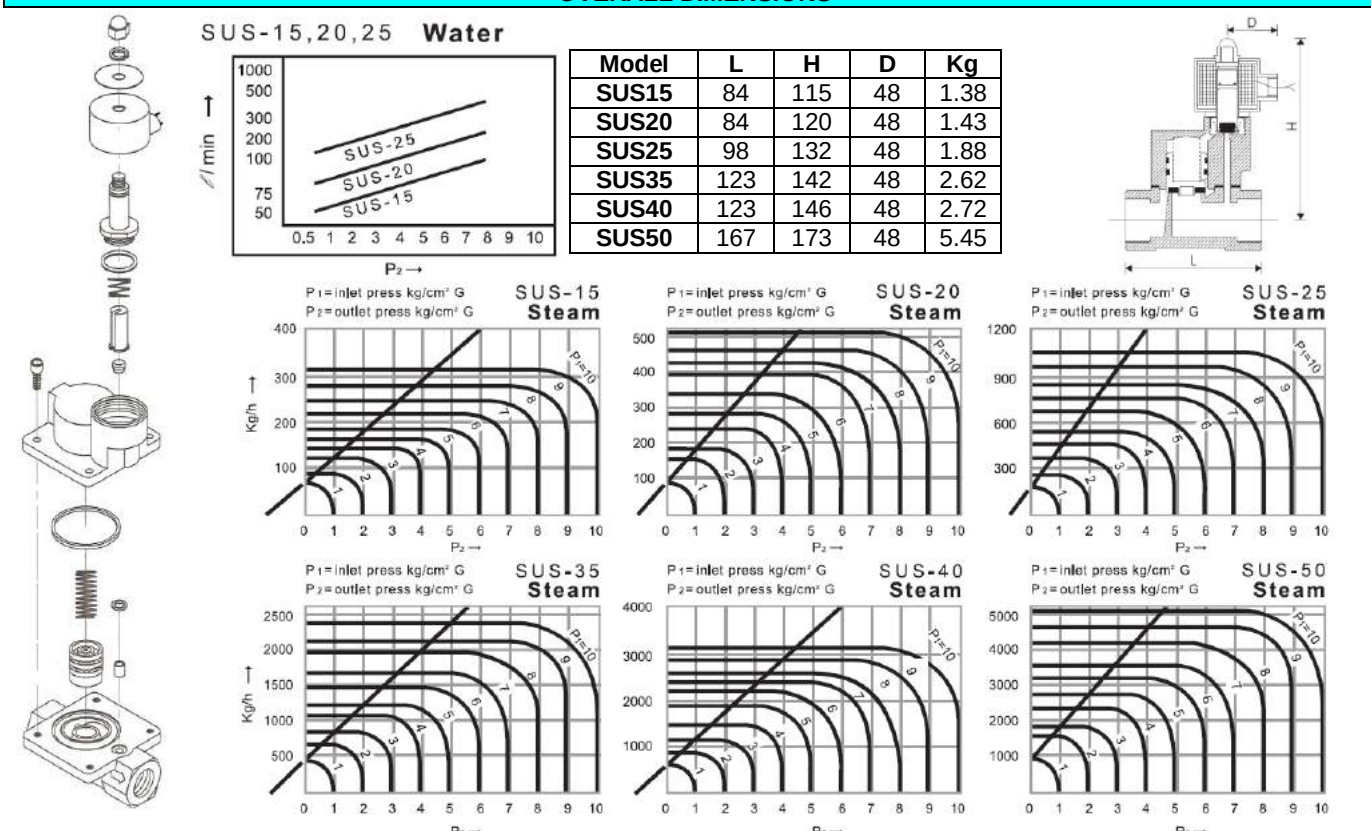
Seals and gaskets: PTFE

Moulded coil: Resin

REPAIR KIT

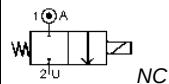
Coil	WPC2D + voltage
Armature	SP + Valve Part Number -ARMATURE
Piston	SP + Valve Part Number -PISTON

OVERALL DIMENSIONS



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Media: steam-air-water-light oil-vacuum
 Pressure range: 0 to 10 Bar max
 Media temperature: +185°C Max
 Ambient temperature: -5° to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright advised



2/2 Steam Stainless

1/8 – 3/8

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 10 Bar

TYPE SUS610



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Coil	Pressure Rating (Bar)		Max Media Temp. °C	Part Number	
				Min	Max			
1/8	2.5	3.8	HTA1	0	7	PTFE 185C NBR 80C Silicone 130°C FKM 130°C	SUS6 - 316 + voltage	
1/4	2.5	3.8	HTA1	0	7		SUS8 - 316 + voltage	
3/8	4	9.7	WPA2	0	10		SUS10 - 316 + voltage	

OPTIONS

IP65 Coil and DIN43650A Connector SUS10 only. HTA1 IP54 flying lead coil (SUS6 + SUS8)
 NPT + BSPT threads
 EPDM or FKM seals +130°C Max

ELECTRICAL DATA

Voltage AC (-10% + 10%) DC (-1% - +1%) Continuous duty 90%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	110 - 220 (50 or 60 Hz)	HTA 1	28VA	15.4VA	N 200 °C	IP54	2 wire 30cm flying lead
=	12 - 24 (DC)		12 Watts				
~	110 - 220 (50 or 60 Hz)	WPA2	40VA	24.4VA	H 180 °C	IP65	3 spades DIN 43650A DIN 40050 VDE0110
=	12 - 24 (DC)		18 Watts				

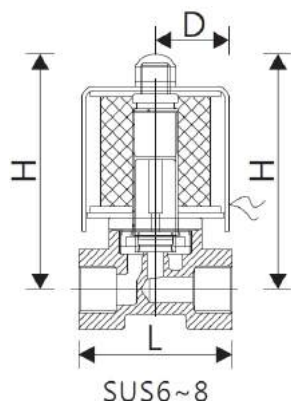
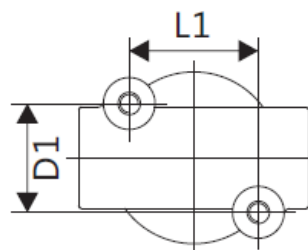
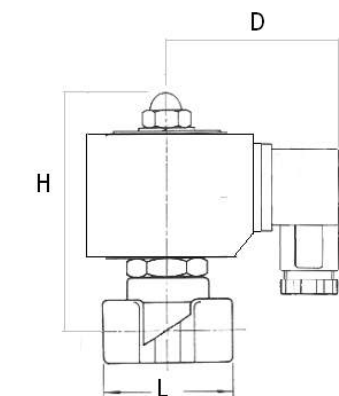
CONSTRUCTION

Body: 316 (CF8M) stainless steel
 Tube and internal parts: Stainless steel
 Seals and gaskets: PTFE (Optional FKM, EPDM, NBR and Silicone)
 Moulded coil: Resin
 Standard coil: H rated special copper wire
 Washer: PTFE or NBR

REPAIR KIT

Coil	Coil size (HTA1 or HTA2) + voltage
Armature assembly	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS

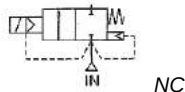


SUS6~8

Model	L	H	D	Weight	L1	D1	M
SUS6	41	68	21.5	340g	23	19.3	M4 x0.7
SUS8	41	68	21.5	330g	23	19.3	
SUS10	53	83	48	540g	20	21	M5x0.8

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Media: air – water – light oil - steam
 Pressure range: 1 to 10 Bar max
 Media temperature: +185°C Max
 Ambient temperature: -20° to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing 200 mSec Max



2/2 Steam Flanged

DN65 – DN100
 NORMALLY CLOSED
 SERVO ASSISTED
 0.5 – 10 Bar
 TYPE USLF



PRESSURE

Ø Port PN16	Ø Orifice (mm)	Flow Cv m³/hr	Pressure Rating (Bar) ΔP		Part Number	
			Min	Max		
DN65	65	68	1	10	USL65F + voltage	
DN80	80	100	1	10	USL80F + voltage	
DN100	100	175	1	10	USL100F + voltage	

OPTIONS

IP65 Coil + DIN Connector PG11 DIN43650A (Optional 30cm N Rated IP54 Flying lead coil)
 Other flange ANSI150Lb, JIS10K, JIS20K, PN40

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 90%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 110 - 220 (50 or 60 Hz)	WPC2	40VA	24.4VA	H 180°C	IP65 with connector	3 spades DIN 43650 DIN 40050 VDE0110
=	12 - 24 (DC)		18 Watts				

CONSTRUCTION

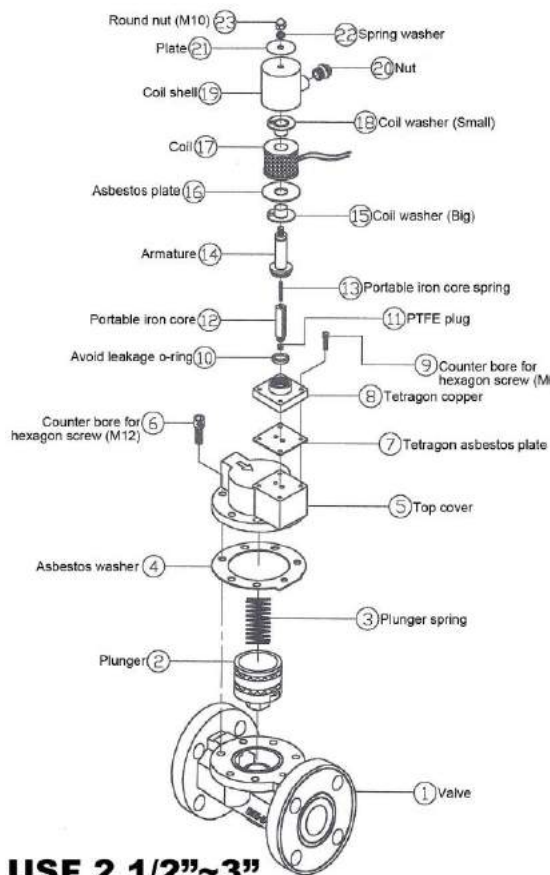
Body: FC-20 (1 piece casting)
 Piston: Bronze
 Tube and internal parts: Stainless steel
 Seals and gaskets: PTFE
 Moulded coil: Resin

REPAIR KIT

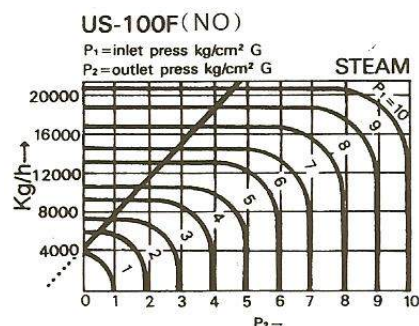
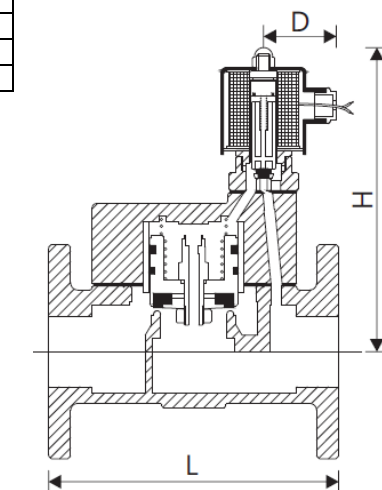
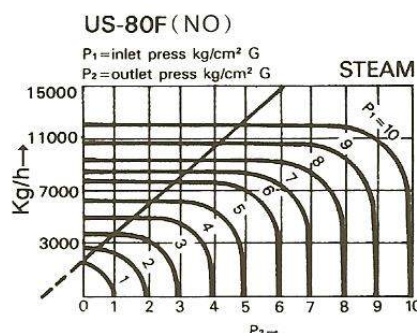
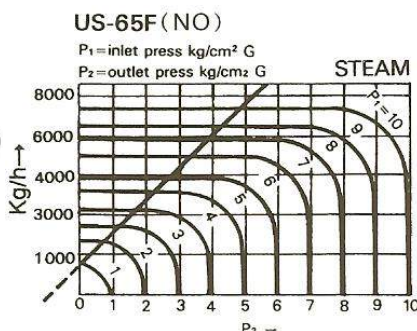
Coil	WPC2 + voltage
Piston	SP + Valve Part Number – PISTON

OVERALL DIMENSIONS

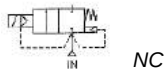
Model	L	H	D	Kg
USL65F	240	209	48	19.2
USL80F	300	228	48	27.0
USL100F	340	244	48	38.7



USF 2 1/2"~3"



Media: water
 Pressure range: 0.2 to 10 Bar max
 Media temperature: 90°C max
 Ambient temperature: +40°C max
 Mounting: any position
 Weight (including coil): 155 g
 Opening / Closing Time: 25 mSec Max



2/2 NYLON

1/4 – 3/4 WRAS APPROVED

NORMALLY CLOSED

2 WAY SERVO ASSISTED

0.2 – 10 Bar

TYPE 115BC



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (bar) ΔP		Picture	Part Number	
			Min	Max			
1/4 Male	11.0	19.5	0.2	10		3115BC + voltage	
1/4 Female	11.0	19.5	0.2	10		3105BC + voltage	
3/8 Male	11.0	27.5	0.2	10		4115BC + voltage	
3/8 Female	11.0	27.5	0.2	10		4105BC + voltage	
1/2 Male	11.0	28.3	0.2	10		5115BC + voltage	
1/2 Female	11.0	28.3	0.2	10		5105BC + voltage	
3/4 Male	11.0	28.3	0.2	10		6115BC + voltage	
6mm Push Fit	11.0	19.5	0.2	10		1136BC + voltage	
8mm Push Fit	11.0	19.5	0.2	10		1145BC + voltage	
10mm Push Fit	11.0	27.5	0.2	10		1156BC + voltage	
15mm Push Fit	11.0	28.3	0.2	10		1175BC + voltage	
1/4 Push Fit	11.0	19.5	0.2	10		1186BC + voltage	
3/8 Push Fit	11.0	27.5	0.2	10		1196BC + voltage	

OPTIONS

IPX0 coil & Anti Water Hammer
 30 cm Flying Lead wire coil

ELECTRICAL DATA

Voltage (-10% + 15%) Media under 60°C 100% 60°C+ (60% Duty 2 min ON - 3 min OFF)		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12 - 24 - 110 - 230	COIL-R	11VA	8 VA	Insulation Class II Windings Class F	IPX 0	Faston Tags
=	12 - 24		6.2 Watts				
=	12 - 24	COIL-R-LP	3.6 Watts				

CONSTRUCTION

Body: White glass filled food grade nylon or Black glass filled nylon non-food grade
 Tube and internal parts: stainless steel
 Seals and gaskets: NBR
 Moulded coil: resin

REPAIR KIT

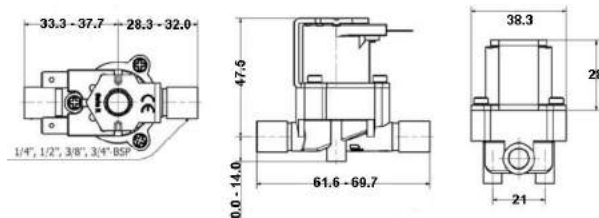
Coil

COIL-R + voltage

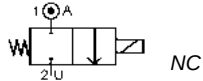
APPROVALS

Complies with EN55014 ED. 1993, EN60730-2-8-1 Ed. 1995, WRc approved materials throughout as per cert. 7067

OVERALL DIMENSIONS



Media: air – water – gas – liquid - vacuum
 Pressure range: 0 to 8 Bar max
 Media temperature: 100°C max
 Ambient temperature: -10°C to +40°C max
 Media viscosity: 40 centistokes max
 Mounting: any position (M5 tapped body)
 Weight (including coil) 100 g
 Opening / Closing time 6 – 20 mSec Max



2/2 Polypropylene

1/4

NORMALLY CLOSED

2 WAY DIRECT

0 – 8 Bar

TYPE GC2



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Pressure Rating (Bar) ΔP			Seals	Part Number	
		Kv Ltr/Min	Min	Max AC	Max DC			
1/4	2.5	3.5	0	8.1	6.8	EPDM	GC2 + voltage	

OPTIONS

IP54 Coil flying lead (45cm)
 Buna-N or Viton
 Other custom made options and voltages available upon request

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12 - 24 - 110 - 230 (50 or 60 Hz)	GC	11.2 VA	6.8 VA	B 130°C	IP54	45cm lead wires
=	12 - 24 (DC)		6 W				

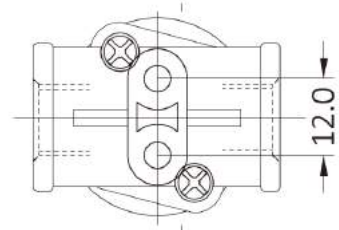
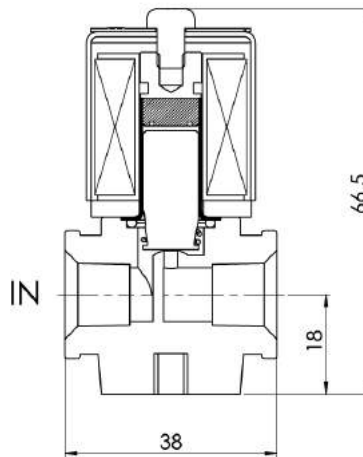
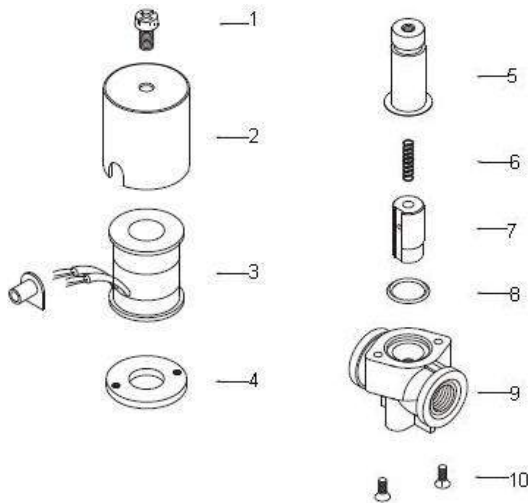
CONSTRUCTION

Body: Polypropylene - glass filled
 Tube and internal parts: head & plunger 430Fr Stainless steel
 Seals and gaskets: EPDM

REPAIR KIT

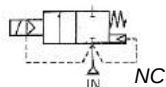
Coil	GC + voltage
Complete plunger + O' rings	SPGC2-ARMATURE

OVERALL DIMENSIONS



No.	Description	Material
1.	Coil fixing screw	SWRM
2.	Coil cover	SPC
3.	Solenoid Coil	B Class
4.	Retainer	SPC
5.	Core Tube	SUS304 KM-31
6.	Armature Spring	SUS 304
7.	Armature	430F
8.	O Ring	EPDM
9.	Valve Body	Nylon 66
10.	Retaining Bolt	SUS 304

Media: slight acid – alkali – air – water
 Pressure range: 0.5 to 10 Bar max
 Media temperature: +5°C to 100°C
 Ambient temperature: +5°C to +60°C
 Media viscosity: 50 centistokes max
 Mounting: coil upright



2/2 Delrin

3/8 – 11/2

NORMALLY CLOSED

2 WAY SERVO ASSISTED

0.5 – 10 Bar

TYPE PA



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/Min	Pressure Rating (Bar) ΔP		Seals	Max Media Temp. °C	Part Number	
			Min	Max				
3/8	15	70	0.5	10	FKM EPDM NBR	80 80 40	PA14V + voltage PA14E + voltage PA14N + voltage	
1/2	15	70	0.5	10	FKM EPDM NBR	80 80 40	PA15V + voltage PA15E + voltage PA15N + voltage	
3/4	20	95	0.5	10	FKM EPDM NBR	80 80 40	PA20V + voltage PA20E + voltage PA20N + voltage	
1	25	175	0.5	10	FKM EPDM NBR	80 80 40	PA25V + voltage PA25E + voltage PA25N + voltage	
1 1/4	35	390	0.5	10	FKM EPDM NBR	80 80 40	PA35V + voltage PA35E + voltage PA35N + voltage	
1 1/2	35	410	0.5	10	FKM EPDM NBR	80 80 40	PA40V + voltage PA40E + voltage PA40N + voltage	

OPTIONS

IP67 (EN60529:1991+A1:2000) UL + CSA Approved coil & IP65 LED Connector PG11 – DIN 43650 A
 ATEX 22003EX Coil: ATEX EExmII T4 II 2G & 2D IP65 T130°C (No shading ring)
 Silver Shading Ring (PAxxxS)
 * VST, CR, ECO, HNBR or Hypalon Seals
 Other custom made options available upon request

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 110 - 220 - 380 (50 or 60 Hz)	WPG1	11.2VA	8.2VA	H 180°C	IP65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 - 24 (DC)		12 Watts				

CONSTRUCTION

Body: Poly-acetate
 Tube and internal parts: Stainless steel
 Moulded coil: Resin

REPAIR KIT

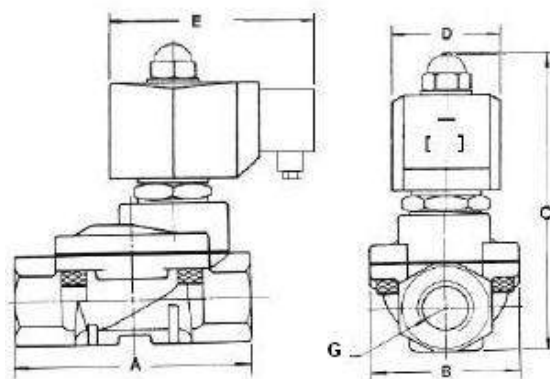
Coil	WPG1 + voltage
Diaphragm	SP213 + valve part number

OVERALL DIMENSIONS

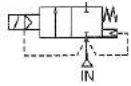


No	Reference	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Name Plate
5	WPG1	Coil
6	SP206-*	Gasket
7	SP207-*	Connector
9	SP209-*	Core Tube
10	SP210-*	Armature
11	SP211-*	Valve Bonnet
12	SP212-*	Bolts
13	SP213-*	Diaphragm
14	SP214-*	Valve Body

Model	A	B	C	D	E	F	Kg
PA14	73.5	48	105	35	55	3/8	0.32
PA15	73.5	48	105	35	55	1/2	0.32
PA20	104	90	124	35	55	3/4	0.65
PA25	104	90	124	35	55	1	0.6
PA35	132	120	145	35	55	1 1/4	0.85
PA40	132	120	145	35	55	1 1/2	0.8



Media: air – water – slight acid/alkali – vacuum Torr10⁻¹
 Pressure range: 0 to 7 Bar max
 Media temperature: 60°C max
 Ambient temperature: +4°C to +50°C max
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening: 0.200-0.5Sec, Close 1-4Sec



NC

2/2 Nylon

3/8 - 1

NORMALLY CLOSED

2 WAY ASSISTED LIFT

0 – 7 Bar

TYPE PK



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/min	Min	Max Pressure Rating (Bar) ΔP		Seals	Part Number
				DC 18.5 Watt Coil 22005	AC 15 Watt Coil 22003		
3/8	18	67	0		7	NBR FKM EPDM	PK14NS + voltage PK14VS + voltage PK14ES + voltage
				4		NBR FKM EPDM	PK14N-5 + voltage PK14V-5 + voltage PK14E-5 + voltage
1/2	18	67	0		7	NBR FKM EPDM	PK15NS + voltage PK15VS + voltage PK15ES + voltage
				4		NBR FKM EPDM	PK15N-5 + voltage PK15V-5 + voltage PK15E-5 + voltage
3/4	28	163	0		7	NBR FKM EPDM	PK20NS + voltage PK20VS + voltage PK20ES + voltage
				3		NBR FKM EPDM	PK20N-5 + voltage PK20V-5 + voltage PK20E-5 + voltage
1	28	183	0		7	NBR FKM EPDM	PK25NS + voltage PK25VS + voltage PK25ES + voltage
				3		NBR FKM EPDM	PK25N-5 + voltage PK25V-5 + voltage PK25E-5 + voltage

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 Silver Shading Ring for AC voltages (Not suitable for ATEX EExmIIT4 coil)
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (AC 2 Bar DC 1 Bar) (No Shading Ring)
 NPT Thread
 Fixing plate for PK14 + 15

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12 - 24 - 48 - 110 - 230 - 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 (DC)		15 Watts				
~	24 - 48 - 110 - 230 (50/60 Hz)	22005	33VA	24VA			
=	12 - 24 - 48 – 110 - 220 (DC)		18.5 Watts				

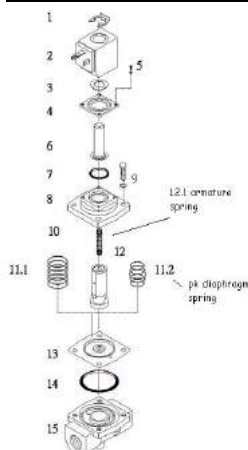
CONSTRUCTION

Body: Nylon; Tube and internal parts: Stainless steel
 Seals and gaskets: NBR (Optional EPDM or FKM)
 Moulded coil: Resin
 Shading Ring: Silver for AC voltages only (No shading ring required for DC voltages)

REPAIR KIT

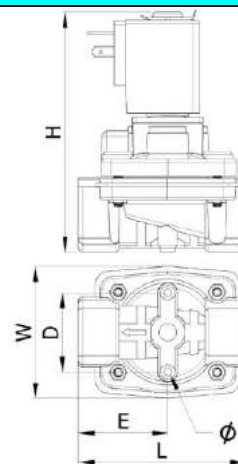
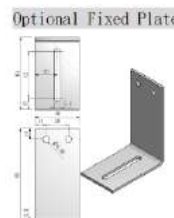
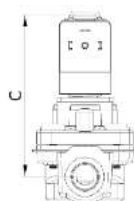
Diaphragm seal	Valve part number + seal material
Coil	22003 or 22005 + voltage
Complete Armature assembly	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS

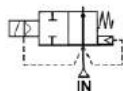


No	Description
1	Coil Clip
2	Coil
3	Wave Washer
4	Flange
5	Screw
6	Core Tube
7	Cover O Ring
8	Bonnet
9	Bonnet Screw
10	Armature Spring
11.1	Diaphragm Spring for PD
11.2	Diaphragm Spring for PK
12	Armature
13	Diaphragm
14	Body O Ring
15	Valve Body

Model	PK14/15	PK20	PK25
Port	3/8 1/2	3/4	1
L	75	92	
W	56	76	
H	109	121	
C	93	98	
D	36		
E	40		
Ø	3.5		
Kg	0.5	0.71	0.63



Media: water
 Pressure range: 0.65 to 10 bar max
 Adjustable range: 0.8 to 6.5 Bar
 Media temperature: +60° C max
 Ambient temperature: 0° to +60° C
 Media viscosity: 22 centistokes max
 Mounting: any position



2/2 Irrigation Valve

11/2" to 4"

Solenoid & PRV

2 WAY SERVO ASSISTED

0.8 to 6.5 Bar

TYPE PN225APRV



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Rate		Pressure Rating (Bar) ΔP		Function	Part Number	
		Kv M³ Hr	USG Min	Min	Max			
11/2	40	25	110	0.8	6.5	Normally Closed + Pressure Reducing Valve	PN22514APRV-24vAC	
2	50	40	180	0.8	6.5		PN22520APRV-24vAC	
3 Weld	80	100	440	0.8	6.5		PN22528APRV-24vAC	
4" Weld	100	160	700	0.8	6.5		PN22532APRV-24vAC	

OPTIONS

IP65 Coil with flying lead wire
 Manual over ride for open, closed or solenoid control
 NPT Thread
 12vdc, 24vdc, 110vAC or 230vAC
 Pressure adjustment range 0.5 to 3 Bar (7 – 40 psi)
 Without solenoid – manual control only

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil Size	Power	Insulation class	Enclosure	Electrical connections
~	24 -110 – 230 (50 or 60 Hz)	2W	12.5VA	F 155°C	IP 66	Flying lead wire
=	12 – 24 (DC)		12.5 Watts			

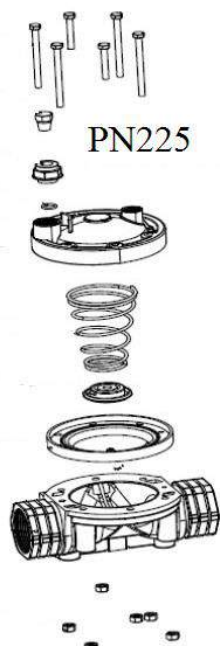
CONSTRUCTION

Body : Glass Reinforced PA66
 Tube, internal parts and bolts : Stainless steel
 Seals and gaskets : NBR
 Moulded coil : Resin

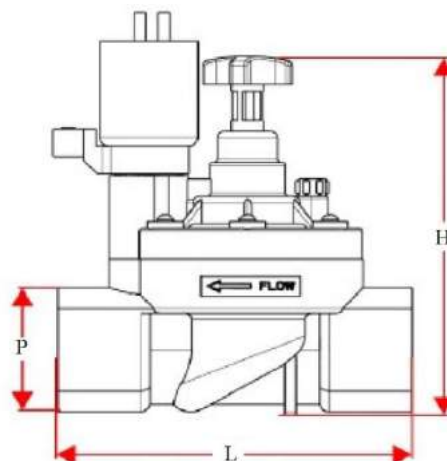
REPAIR KIT

Diaphragm Seal	225N + port + seal material
Coil	2W + voltage

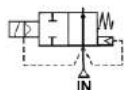
OVERALL DIMENSIONS



Port	H	L	P	Kg
11/2	104	190	61	1.6
2	104	200	75	2
3	187	259	112	2.75
4	201	278	136	5.9



Media: water
 Pressure range: 0.65 to 10 Bar max
 Media temperature: +60° C max
 Ambient temperature: 0° to +60°C
 Media viscosity: 22 centistokes max
 Mounting: any position



2/2 Irrigation Valve

1", 2" & 3" BSP

N/CLOSED & LATCHING

2 WAY SERVO ASSISTED

0.65 to 10 Bar

TYPE PN225A



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Options Included	Flow Rate		Pressure Rating (bar)		Seals	Function	Part Number	
			Kv M³ Hr	USG Min	Min diff	Max diff				
1	25	Manual Override Flow Controller	7.7	35	0.65	10	NBR	Normally Closed	PN22508A + voltage	
								Latching	PN22508AL-6-40vDC	
1 1/2	40	Manual Override	25	110	0.65	10	NBR	Normally Closed	PN22514A + voltage	
								Latching	PN22514AL-6-40vDC	
2	50	Manual Override	40	180	0.65	10	NBR	Normally Closed	PN22520A + voltage	
								Latching	PN22520AL-6-40vDC	
3	80	-	90	400	0.65	10	NBR	Normally Closed	PN22528A + voltage	
								Latching	PN22528AL-6-40vDC	

OPTIONS

IP66 weather proof coil with flying lead wire
 NPT Thread

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil Size	Power	Insulation class	Enclosure	Electrical connections
~	24 - 230 (50 or 60 Hz)	2W	12.5VA	F 155°C	IP 66	Flying lead wire
=	12 - 24 (DC)		12.5 Watts			
=	6 to 40vDC (Req 4700µf capacitor) Pulse 20 - 100msec	2WL	2.2 Watts 6Ω			

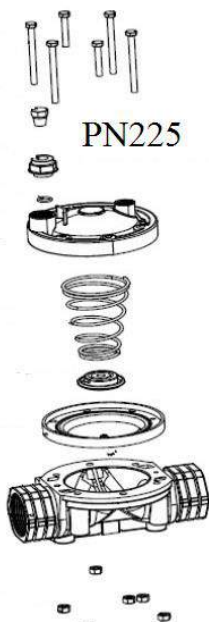
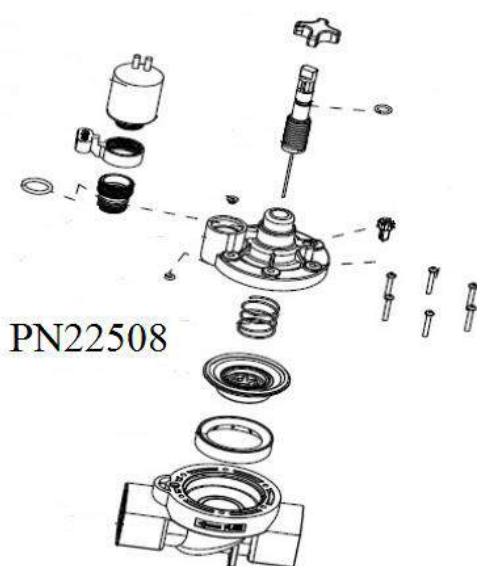
CONSTRUCTION

Body : Glass Reinforced UV resistant PA66
 Tube, internal parts and bolts : Stainless steel
 Seals and gaskets : NBR
 Moulded coil : Resin

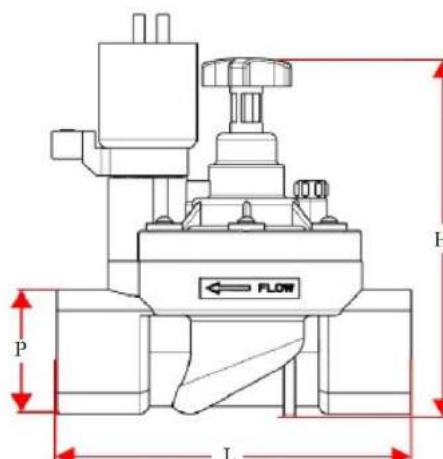
REPAIR KIT

Diaphragm Seal	225N + port + seal material
Coil	2W + voltage

OVERALL DIMENSIONS



Port	H	L	P	Kg
1	133	119	44	0.6
1 1/2	104	190	61	1.35
2	104	200	75	1.8
3	159	257	111	2.2



Media: water Pressure range: 0.2 to 10 Bar max Media temperature: +75°C max Ambient temp: +5°C to +50°C max Mounting: any position Opening / Closing time: 50 mSec Max Weight: 80g / 120g  NC	2/2 Nylon WRAS 3/4 – 10/13mm NORMALLY CLOSED SERVO ASSISTED 0.2 – 10 Bar TYPE SDT180/90	
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PRESSURE

Ø Inlet Port	Outlet Hose Barb mm	Orifice (mm) KV=21 Ltr / Min	Pressure Rating (Bar) ΔP		Port Config	Part Number	
			Min	Max			
3/4 BSP Male	Single 10mm	11	0.2	10	180°	S18 + voltage + 10BH	
	Single 13mm		0.2	10	180°	S18 + voltage + 12BH	
	Single 10mm		0.2	10	90°	S90 + voltage + 10BH	
	Single 13mm		0.2	10	90°	S90 + voltage + 12BH	
	Double 10mm		0.2	10	180°	D18 + voltage + 10BH	
	Double 13mm		0.2	10	180°	D18 + voltage + 12BH	
	Double 10mm		0.2	10	90°	D90 + voltage + 10BH	
	Double 13mm		0.2	10	90°	D90 + voltage + 12BH	
	Triple 10mm		0.2	10	180°	T18 + voltage + 10BH	
	Triple 10mm		0.2	10	90°	T90 + voltage + 10BH	

OPTIONS

IPX0 coil faston tags (Optional Flying lead wire)
Plastic Inlet filter
Mounting bracket (Adjustable horizontal or vertical)
Flow regulator (0.25mm to 5mm in 0.25 increments)

ELECTRICAL DATA

Voltage (-10% + 15%) Duty 2 min ON max - 3 min OFF min		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12 - 24 - 110 - 230 (50 or 60 Hz)	Coil-R	7.2 - 13.2VA	4.4 - 8VA	F 155°C	IPX0	Faston Tags
=	12 - 24 (DC)		5.4 – 8.5 Watts				

CONSTRUCTION

Body: White glass filled nylon
Tube: 304 stainless steel, armature 430F stainless steel
Shading ring: copper
Seals and gaskets: Buna
Moulded coil: Resin

APPROVALS

VDE (Germany) KEMA (Netherlands) DEMKO (Denmark) SETI (Finland) SEV (Switzerland)	NEMKO (Norway) SEMKO (Sweden) BEAB (UK) OVE (Austria) UL (USA Approval No MH13778 (N), category YOIZ2)
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REPAIR KIT

Coil (faston Tags)

COIL-R + voltage

OVERALL DIMENSIONS

