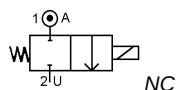


Media: air – water – gas – light oil - vacuum
 Pressure range: 0 to 15 bar max
 Media temperature: 185°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 50 centistokes max
 Mounting: any position
 Opening / Closing time: 20 mSec Max



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				

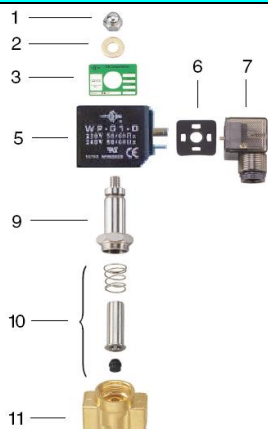
CONSTRUCTION

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

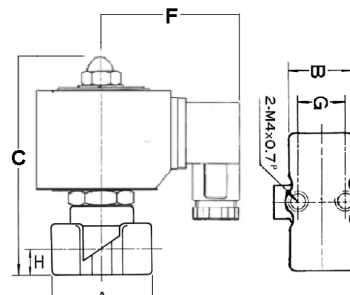
OVERALL DIMENSIONS



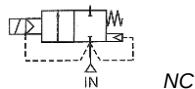
Item	Part No	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
5	WPG*	Coil
6	SP206-*	Gasket
7	SP207-*	Connector
9	SP209-*	Core Tube
10	SP210-*	Armature Assembly
17	SP211-*	Valve Body

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

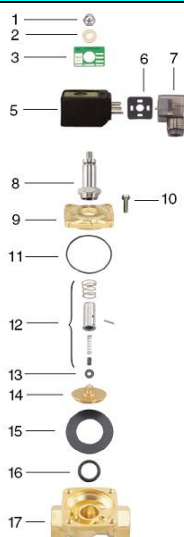
CONSTRUCTION

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

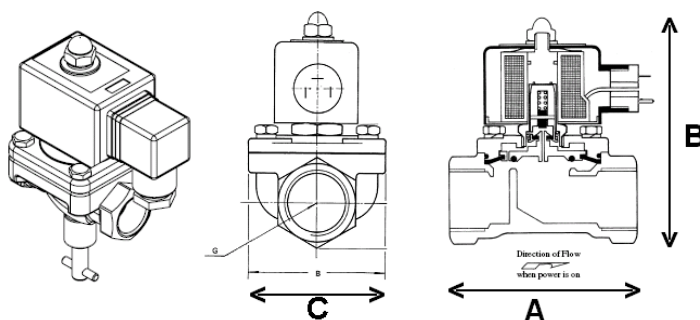
OVERALL DIMENSIONS



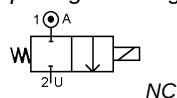
No.	Part No	Description
1	SP201*	Nut
2	SP202*	Washer
3	SP203*	Nameplate
5	WPG2*	Coil
6	SP206*	Gasket
7	SP207*	Connector
8	SP208*	Core Tube
9	SP209*	Valve Bonnet
10	SP210*	Bolt
11	SP211*	Bonnet O Ring
12	SP212*	Armature Assembly
13	SP213*	Diaphragm Base Kit
14	SP214*	Diaphragm Base
15	SP215*	Diaphragm
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 EExIIIT4 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				

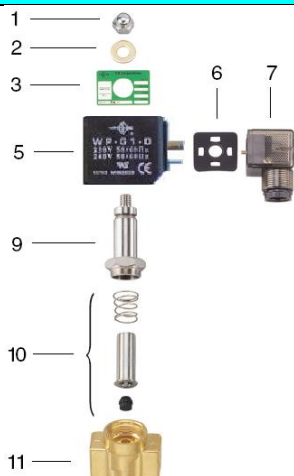
CONSTRUCTION

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

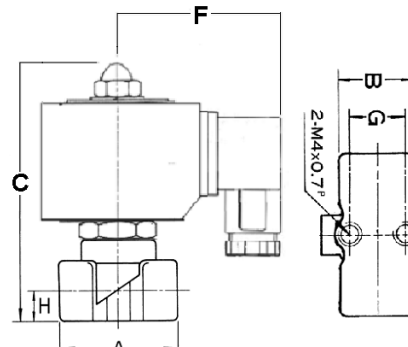
OVERALL DIMENSIONS



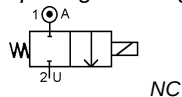
Item	Part No	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
5	WP*	Coil
6	SP206-*	Gasket
7	SP207-*	Connector
9	SP209-*	Core Tube
10	SP210-*	Armature Assembly
17	SP211-*	Valve Body

* = 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				

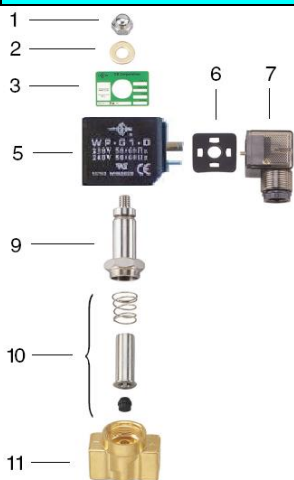
CONSTRUCTION

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

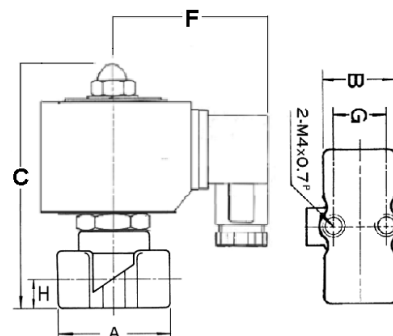
OVERALL DIMENSIONS



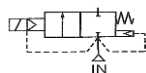
Item	Part No	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
5	WP*	Coil
6	SP206-*	Gasket
7	SP207-*	Connector
9	SP209-*	Core Tube
10	SP210-*	Armature Assembly
17	SP211-*	Valve Body

* = 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				

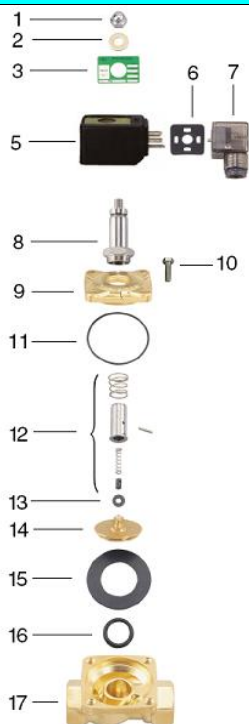
CONSTRUCTION

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

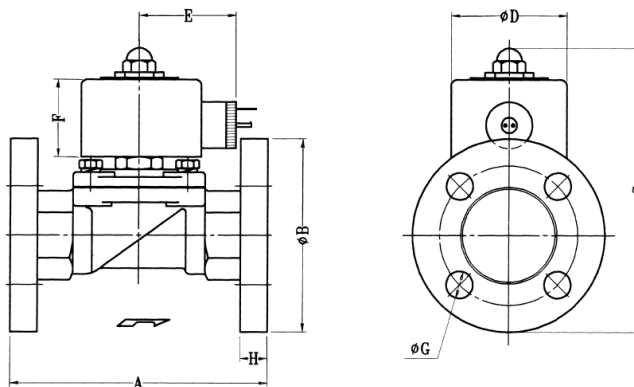
OVERALL DIMENSIONS



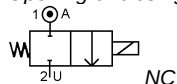
No.	Part No	Description
1	SP201*	Nut
2	SP202*	Washer
3	SP203*	Nameplate
5	SP205*	Coil
6	SP206*	Gasket
7	SP207*	Connector
8	SP208*	Core Tube
9	SP209*	Valve Bonnet
10	SP210*	Bolt
11	SP211*	Bonnet O Ring
12	SP212*	Armature Assembly
13	SP213*	Diaphragm Base Kit
14	SP214*	Diaphragm Base
15	SP215*	Diaphragm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

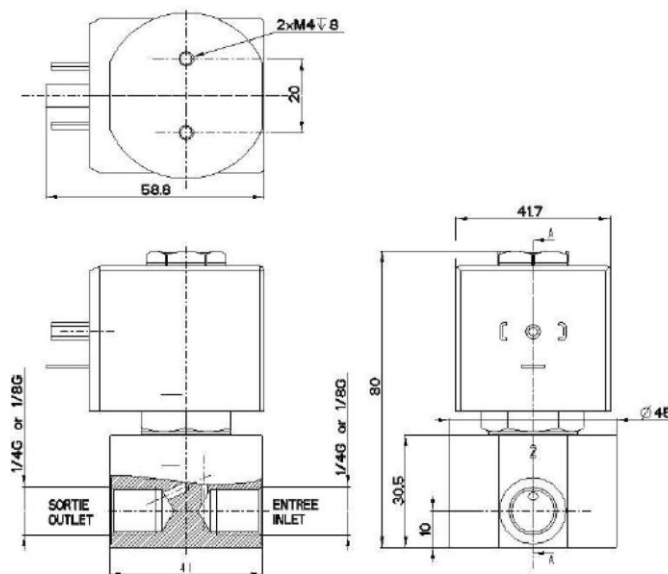
Seals and gaskets: PTFE + FKM, VOLTAEF or PEEK

Moulded coil: Resin

REPAIR KIT

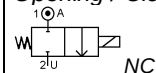
Coil	31037 + voltage
Complete plunger + O' rings	KIT + valve part number

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

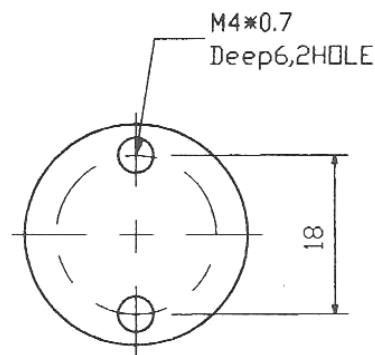
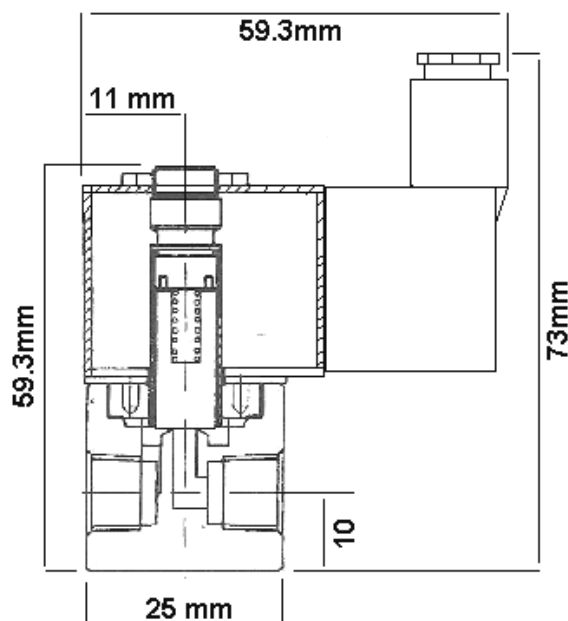
Seals and gaskets: Viton (Optional EPDM & NBR)

Moulded coil: Resin

REPAIR KIT

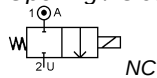
Coil	22001 + voltage
Complete plunger + O' rings	KIT + valve part number

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				

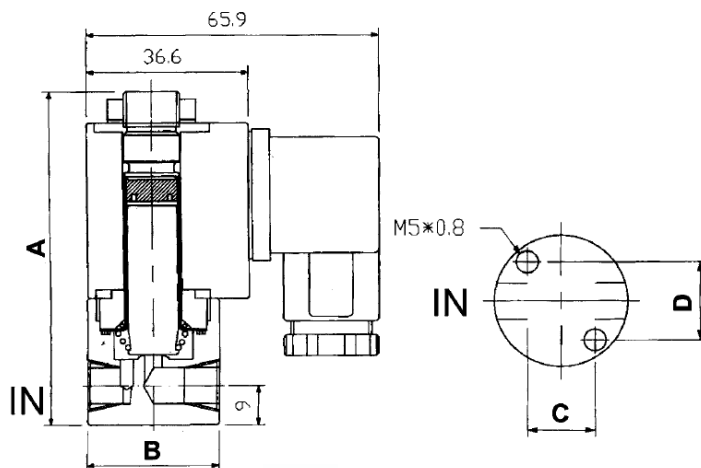
CONSTRUCTION

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

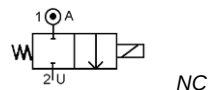
Coil	Coil size (11630 or 31400) + voltage
Armature + seal	SP + Valve Part Number -ARMATURE

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				

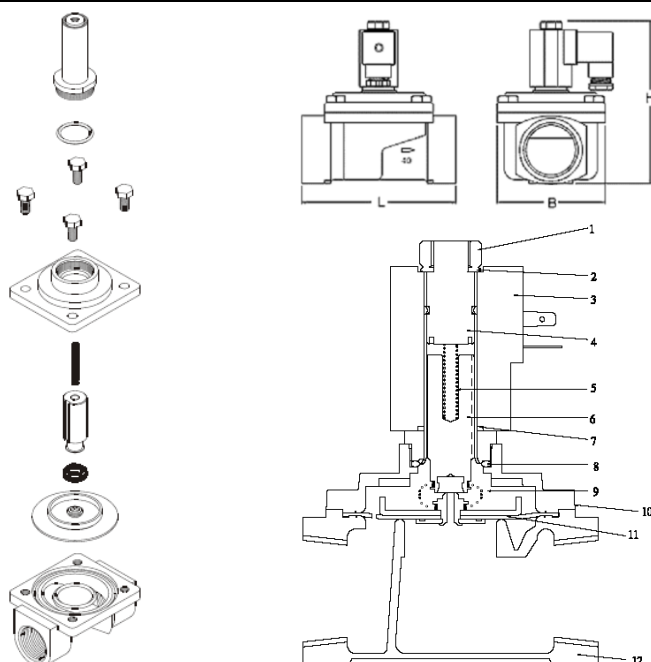
CONSTRUCTION

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

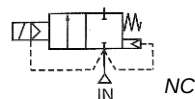
OVERALL DIMENSIONS



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		NBR FKM EPDM	80 120 150	SPU22003-18.5W + voltage SPU22003V-18.5W + voltage SPU22003E-18.5W + voltage		
1/2	13	35	0		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		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				

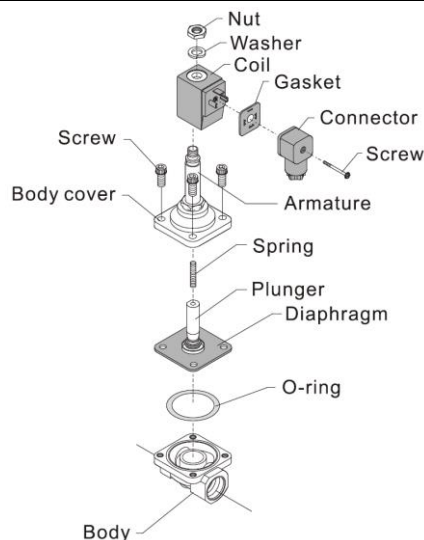
CONSTRUCTION

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

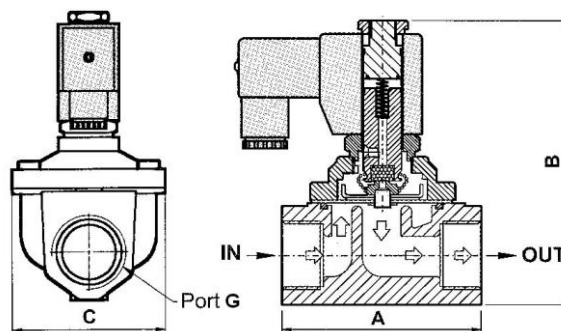
REPAIR KIT

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

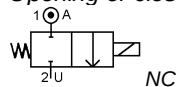
OVERALL DIMENSIONS



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

