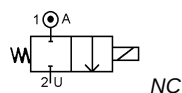


Media: air – water – gas – light oil - vacuum
 Pressure range: 0 to 15 bar max
 Media temperature: 120°C max
 Ambient temperature: -10°C to +50°C max
 Media viscosity: 50 centistokes max
 Mounting: any position
 Opening / Closing time: 20 mSec Max



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				

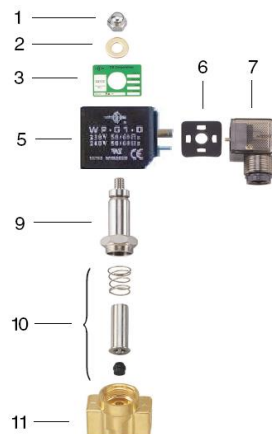
CONSTRUCTION

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

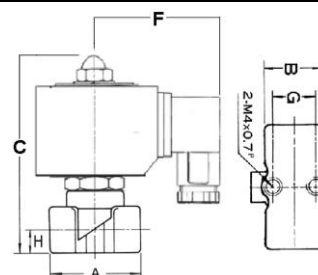
OVERALL DIMENSIONS



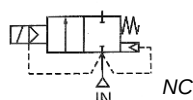
Item	Part No	Description
1	SP201-*	Nut
2	SP202-*	Washer
3	SP203-*	Nameplate
5	WPG*	Coil
6	SP206-*	Gasket
7	SP207-*	Connector
9	SP209-*	Core Tube
10	SP210-*	Armature Assembly
17	SP211-*	Valve Body

* = 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				

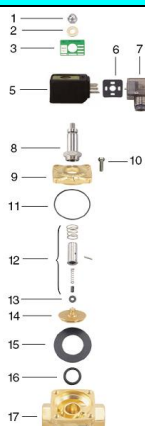
CONSTRUCTION

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

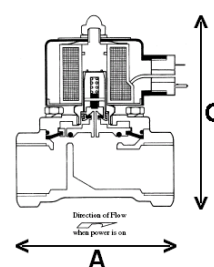
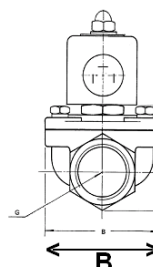
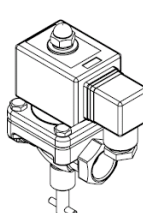
OVERALL DIMENSIONS



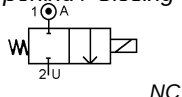
No.	Part No	Description
1	SP201*	Nut
2	SP202*	Washer
3	SP203*	Nameplate
5	SP205*	Coil
6	SP206*	Gasket
7	SP207*	Connector
8	SP208*	Core Tube
9	SP209*	Valve Bonnet
10	SP210*	Bolt
11	SP211*	Bonnet O Ring
12	SP212*	Armature Assembly
13	SP213*	Diaphragm Base Kit
14	SP214*	Diaphragm Base
15	SP215*	Diaphragm
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	WPA3C	10.7	0	10	7		AD6150 + seal + voltage	
	1.2		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		IP54	30 cm flying lead wires
=	12 - 24 (DC)		18 Watts				
~	24 - 110 - 230 (50 or 60 Hz)	WPA3C	88VA	57VA			
=	12 - 24 (DC)		33.6 Watts				

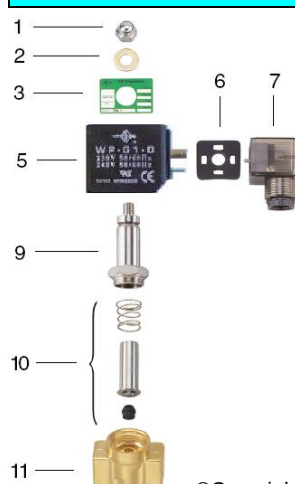
CONSTRUCTION

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

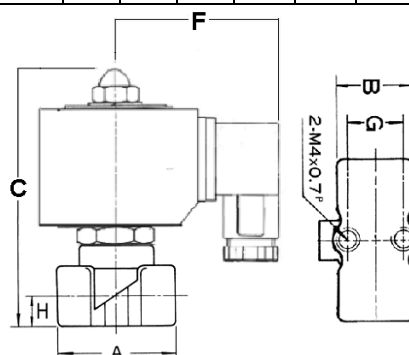
OVERALL DIMENSIONS



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

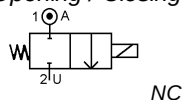
* = Valve Part Number

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 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				

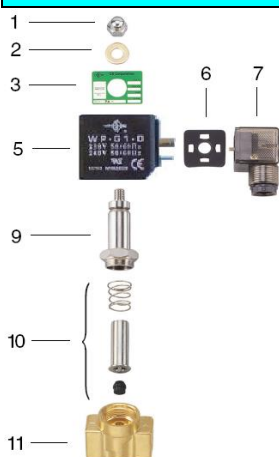
CONSTRUCTION

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, ECO, HNBR and Hypalon)
 Moulded coil: Resin

REPAIR KIT

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

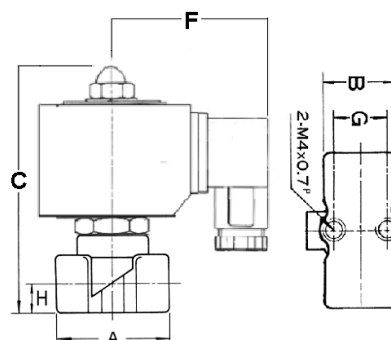
OVERALL DIMENSIONS



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

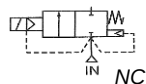
* = Valve Part Number

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				

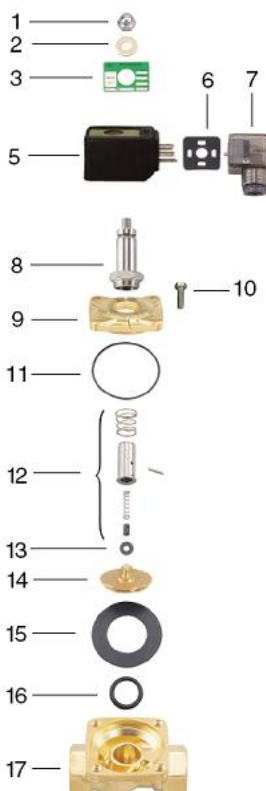
CONSTRUCTION

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

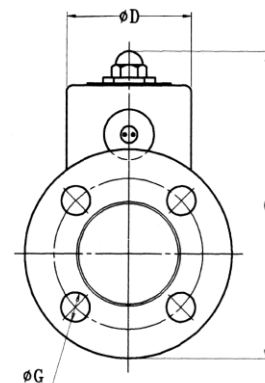
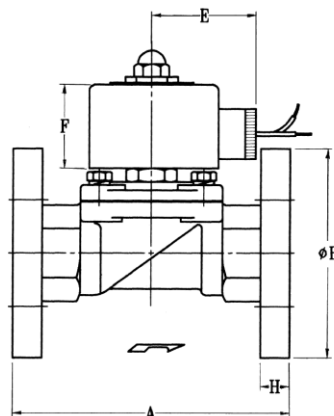
OVERALL DIMENSIONS



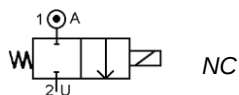
No.	Part No	Description
1	SP201*	Nut
2	SP202*	Washer
3	SP203*	Nameplate
5	WPG2*	Coil
6	SP206*	Gasket
7	SP207*	Connector
8	SP208*	Core Tube
9	SP209*	Valve Bonnet
10	SP210*	Bolt
11	SP211*	Bonnet O Ring
12	SP212*	Armature Assembly
13	SP213*	Diaphragm Base Kit
14	SP214*	Diaphragm Base
15	SP215*	Diaphragm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

* = Valve Part Number

Model	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



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				

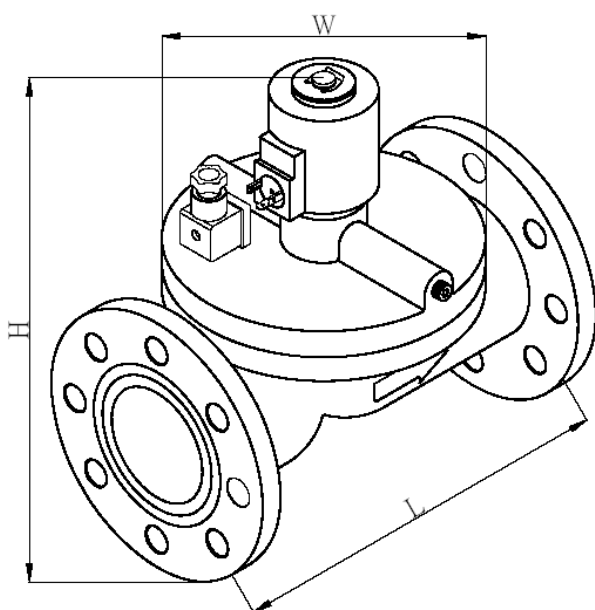
CONSTRUCTION

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

REPAIR KIT

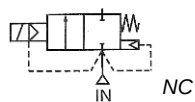
Diaphragm Seal	SP + Valve Part Number – DIAPHRAGM
Coil	22007 + voltage
Armature	SP + Valve Part Number – ARMATURE

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				

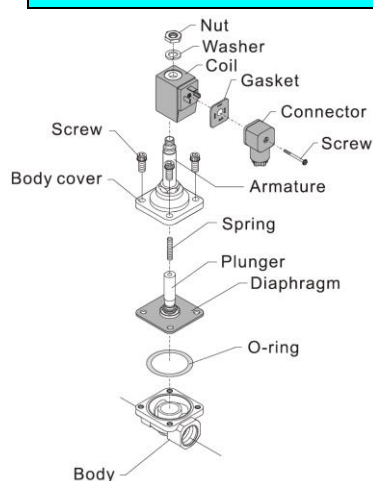
CONSTRUCTION

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

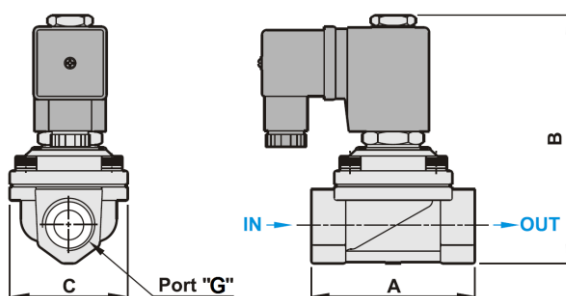
REPAIR KIT

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

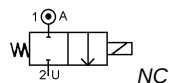
OVERALL DIMENSIONS



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

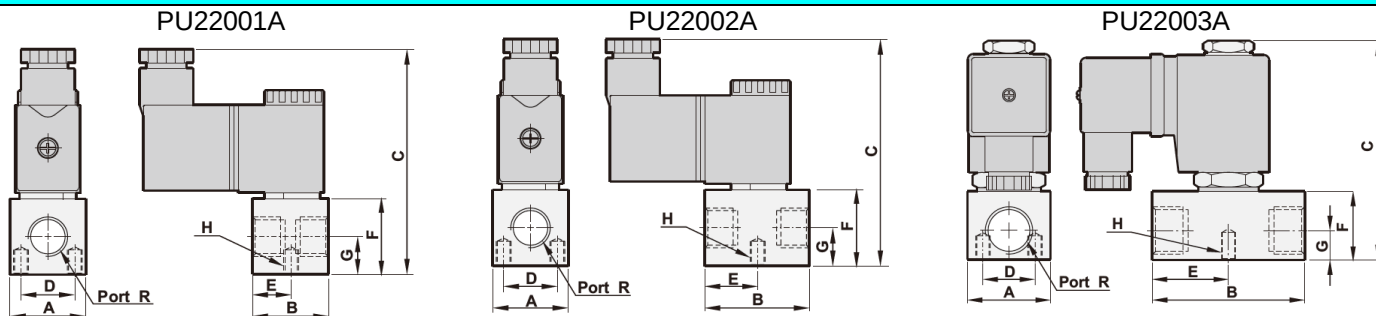
OPTIONS										
IP65 Coil & Connector PG9 – (DIN 43650 B 1/8 & 1/4 Ports) (DIN 43650A 3/8 Port)										
ATEX 22001EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C										
ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C										
NPT thread										

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					

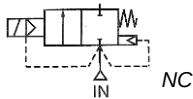
OVERALL DIMENSIONS



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				

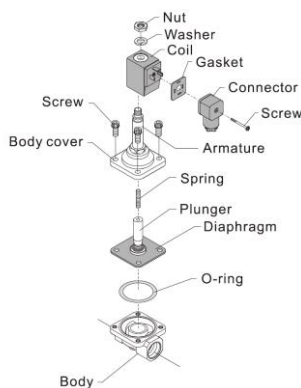
CONSTRUCTION

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

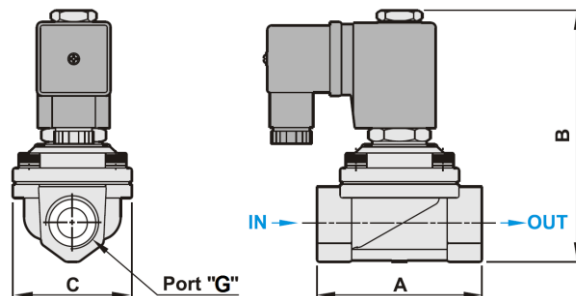
REPAIR KIT

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

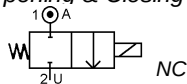
OVERALL DIMENSIONS



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

