

Műanyag mágnesszelepek

Nylon, Delrin, PPA, PVC, PTFE

- NC - alaphelyzeten zárt és
- NO - alaphelyzetben nyitott típusok

BRAVA BEAR
BRAVA BEAR



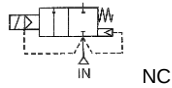
BRAVA BEAR KERESKEDELMİ ÉS SZOLGÁLTATÓ BT.

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Media: air – water – light oil – vacuum - (Torr 10⁻³)
 Pressure range: 0 to 7 bar max
 Media temperature: 60°C max
 Ambient temperature: +4° to +50°C max
 Media viscosity: 50 centistokes max
 Mounting: coil upright



2/2 Nylon

1/2 - 1

NORMALLY CLOSED

2 WAY ASSISTED LIFT

0 – 7 Bar

NY



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (bar) ΔP			Seals	Part Number	
			Min	DC Max 18.5 Watt 22005 Coil	AC Max 15 Watt 22003 Coil			
1/2	18	67	0		7	NBR FKM EPDM	NY15NS + voltage NY15VS + voltage NY15ES + voltage	
				4		NBR FKM EPDM	NY15N-5 + voltage NY15V-5 + voltage NY15E-5 + voltage	
3/4	28	163	0		7	NBR FKM EPDM	NY20NS + voltage NY20VS + voltage NY20ES + voltage	
				3		NBR FKM EPDM	NY20N-5 + voltage NY20V-5 + voltage NY20E-5 + voltage	
1	28	183	0		7	NBR FKM EPDM	NY25NS + voltage NY25VS + voltage NY25ES + voltage	
				3		NBR FKM EPDM	NY25N-5 + voltage NY25V-5 + voltage NY25E-5 + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 Silver Shading Ring for AC voltages (Not suitable for Atex EexmII T4)
 ATEX 22003EX Coil: ATEX EExmII T4 II 2G & 2D IP65 T130°C (AC 2 Bar DC 1 Bar)  (No Shading Ring)
 NPT Thread

ELECTRICAL DATA

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

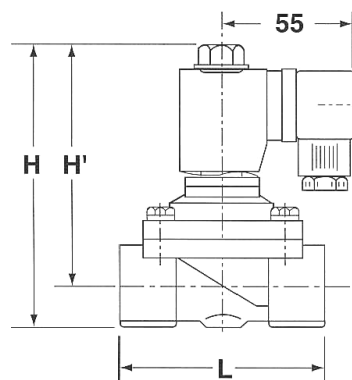
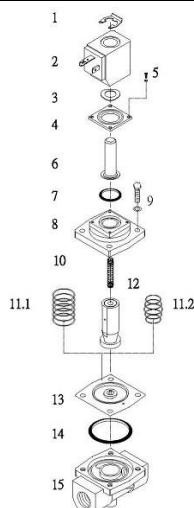
CONSTRUCTION

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)

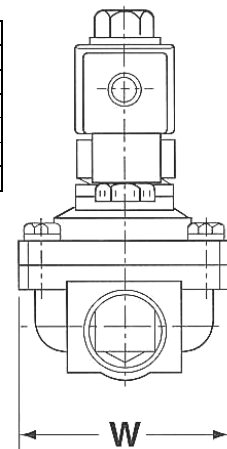
REPAIR KIT

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

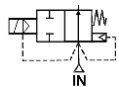
OVERALL DIMENSIONS



Model	NYL15	NYL20	NYL25
Port	1/2	3/4	1
L	71	90	
H	114	124	
H1	98	104	
W	56	76	
Kg	0.5	0.7	0.6



Media: air – water – light oil – vacuum (Torr 10⁻¹)
 Pressure range: 0 to 5 bar max
 Media temperature: 60°C max
 Ambient temperature: +4° to +50°C max
 Media viscosity: 50 centistokes max
 Mounting: coil upright



NO

2/2 Nylon

1/2 - 1

NORMALLY OPEN

2 WAY ASSISTED CLOSE

0 – 5 Bar

NONY



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (bar) ΔP			Seals	Part Number	
			Min	Max DC 22005 Coil	Max AC 22003 Coil			
1/2	18	67	0		5	NBR FKM EPDM	NONY15NS + voltage NONY15VS + voltage NONY15ES + voltage	
				5		NBR FKM EPDM	NONY15N-5 + voltage NONY15V-5 + voltage NONY15E-5 + voltage	
3/4	28	163	0		5	NBR FKM EPDM	NONY20NS + voltage NONY20VS + voltage NONY20ES + voltage	
				4		NBR FKM EPDM	NONY20N-5 + voltage NONY20V-5 + voltage NONY20E-5 + voltage	
1	28	183	0		5	NBR FKM EPDM	NONY25NS + voltage NONY25VS + voltage NONY25ES + voltage	
				4		NBR FKM EPDM	NONY25N-5 + voltage NONY25V-5 + voltage NONY25E-5 + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 Silver Shading Ring for AC Coil (Not suitable for DC or ATEX ExmII T4 coils)
 ATEX 22003EX Coil: ATEX ExmII T4 II 2G & 2D IP65 T130°C (AC 3 Bar DC 1 Bar)  (No Shading Ring)
 NPT Thread

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 48 - 110 - 220 - 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)	22005	18.5 Watts				

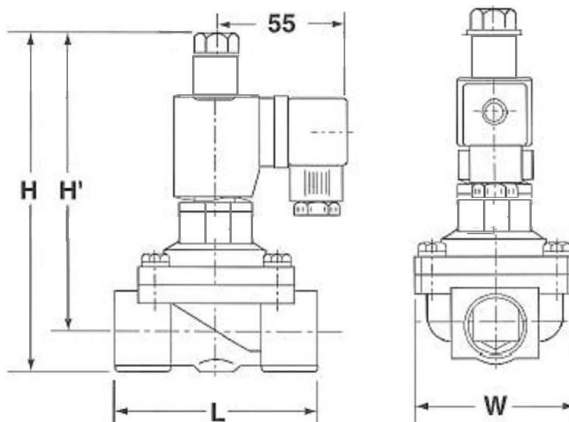
CONSTRUCTION

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

REPAIR KIT

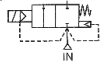
Diaphragm seal	SP + Valve Part Number -DIAPHRAGM
Coil	Coil size (22003 or 22005) + voltage
Complete plunger + O' rings	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS



Model	NONY15	NONY20	NONY25
Port	1/2	3/4	1
L	71	90	
H	114	124	
H1	98	104	
W	56	76	
Kg	0.5	0.7	0.6

Media: air – water
 Pressure range: 0.2 to 10 bar max
 Media temperature: 90°C max
 Ambient temperature: +40°C max
 Media viscosity: 40 centistokes max
 Mounting: any position
 Weight (including coil): 155 g
 Closing Time: 25 mSec Max



NC

2/2 NYLON

1/4 – 3/4 WRAS APPROVED

NORMALLY CLOSED

2 WAY SERVO ASSISTED

0.2 – 10 Bar

NY115



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (bar) ΔP		Part Number
			Min	Max	
1/4 Male	11.0	19.5	0.2	10	NY3115+ voltage
1/4 Female	11.0	19.5	0.2	10	NY3105 + voltage
3/8 Male	11.0	27.5	0.2	10	NY4115 + voltage
3/8 Female	11.0	27.5	0.2	10	NY4105 + voltage
1/2 Male	11.0	28.3	0.2	10	NY5115 + voltage
3/4 Male	11.0	28.3	0.2	10	NY6115 + voltage
15mm Push Fit	11.0	28.3	0.2	10	NY1175 + voltage

OPTIONS

IPX0 coil
 Anti Water Hammer

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				

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

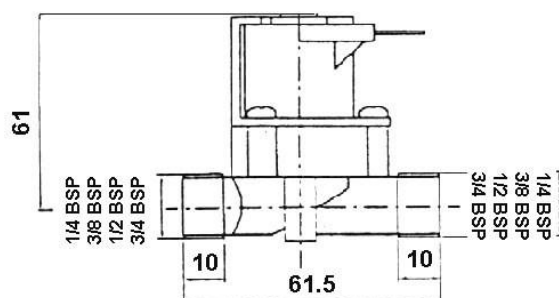
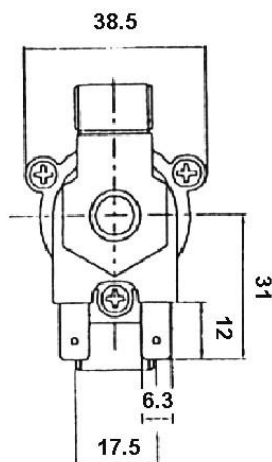
Coil

COIL-R + voltage

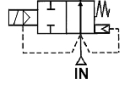
APPROVALS

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

OVERALL DIMENSIONS



Media: air – water
 Pressure range: 0.2 to 10 bar max
 Media temperature: 90°C max
 Ambient temperature: +40°C max
 Media viscosity: 40 centistokes max
 Mounting: any position
 Weight (including coil): 155 g



2/2 NYLON

1/4 – 3/4 + 15mm WRAS APPROVED

NORMALLY OPEN

2 WAY SERVO ASSISTED

0.2 – 10 Bar

NO-NY115



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/ min	Pressure Rating (bar) ΔP		Part Number
			Min	Max	
1/4 Male	11.0	19.5	0.2	10	3115NO+ voltage
1/4 Female	11.0	19.5	0.2	10	3105NO + voltage
3/8 Male	11.0	27.5	0.2	10	4115NO + voltage
3/8 Female	11.0	27.5	0.2	10	4105NO + voltage
1/2 Male	11.0	28.3	0.2	10	5115NO + voltage
3/4 Male	11.0	28.3	0.2	10	6115NO + voltage
15mm Push Fit	11.0	28.3	0.2	10	1175NO + voltage

OPTIONS

IPX0 coil
 Anti Water Hammer

ELECTRICAL DATA

Voltage (-10% + 15%)		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				

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

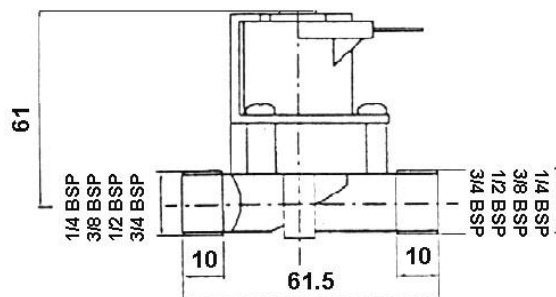
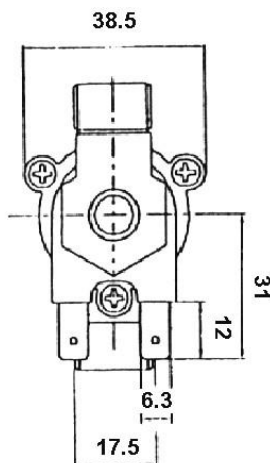
Coil

COIL-R + voltage

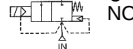
APPROVALS

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

OVERALL DIMENSIONS



Media: air – water
 Pressure range: 0.2 to 10 bar max
 Media temperature: 75°C max
 Ambient temperature: 5° to +50° C max
 Media viscosity: 40 centistokes max
 Mounting: any position
 Opening / Closing time: 50 mSec Max
 Orifice: 11mm Cv Ltr/Min = 21
 Weight: 80g / 120g



2/2 Nylon

(WRC Approved)
 N/CLOSED
 2 WAY SERVO ASSISTED

NY123EK



PRESSURE

Ø Inlet Port	Outlet Hose Barb	Pressure Rating (bar) ΔP		Weight	Port Configuration	Part Number	
		Min	Max				
3/4 BSP Male	Single 10.5mm	0.2	10	80g	180°	E1 + voltage + 10	
	Single 12.5mm	0.2	10	80g	180°	E1 + voltage + 12	
	Single 10.5mm	0.2	10	80g	90°	K1 + voltage + 10	
	Single 12.5mm	0.2	10	80g	90°	K1 + voltage + 12	
	Double 10.5mm	0.2	10	120g	180°	E2 + voltage + 10	
	Double 12.5 mm	0.2	10	120g	180°	E2 + voltage + 12	
	Double 10.5mm	0.2	10	120g	90°	K2 + voltage + 10	
	Double 12.5 mm	0.2	10	120g	90°	K2 + voltage + 12	

OPTIONS

IPX0 coil faston tags
 Plastic Inlet filter
 Mounting bracket (Adjustable horizontal or vertical)
 Flow regulator (5mm to 0.25mm in 0.25 increments)
 Triple outlet

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 60%		Coil	Power		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12 - 24 - 110 - 230 (50 or 60 Hz)	300	14.5VA	8VA	F 155°C	IPX0	Faston Tags
=	12 - 24 (DC)		6.2 WATTS				

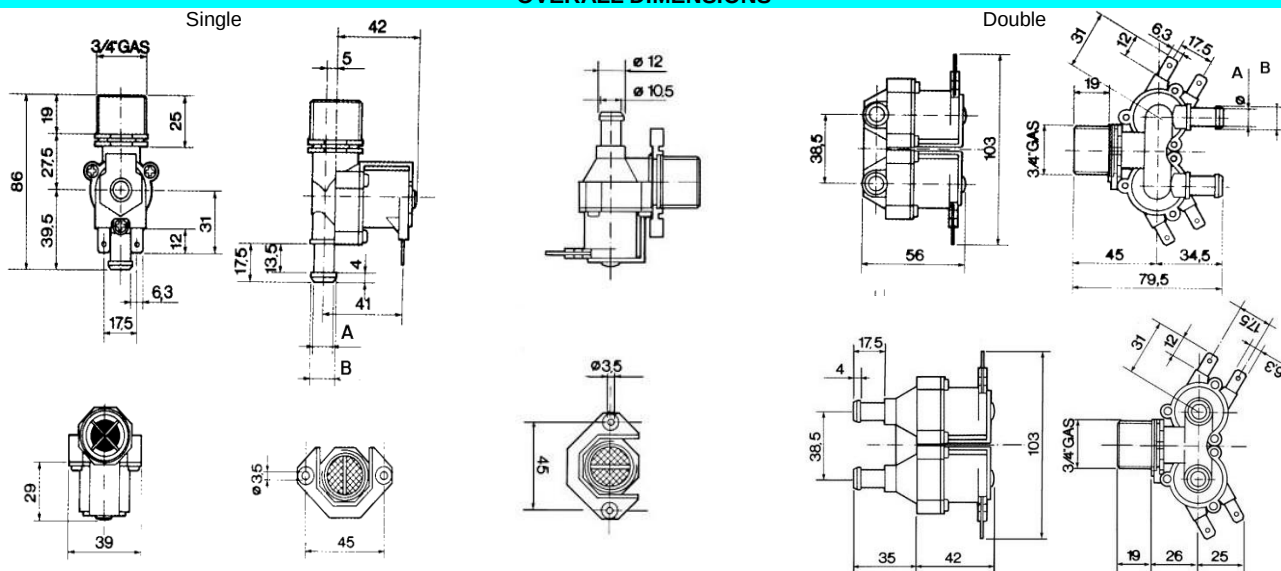
CONSTRUCTION

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

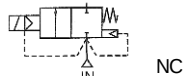
APPROVALS

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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OVERALL DIMENSIONS



Media: slight acid – alkali – air – water
 Pressure range: 0.5 to 10 bar max
 Media temperature: +5° C to 100° C
 Ambient temperature: +5° 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

DE



PRESSURE

Port BSP	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	DE14V + voltage DE14E + voltage DE14N + voltage	
1/2	15	70	0.5	10	FKM EPDM NBR	80 80 40	DE15V + voltage DE15E + voltage DE15N + voltage	
3/4	20	95	0.5	10	FKM EPDM NBR	80 80 40	DE20V + voltage DE20E + voltage DE20N + voltage	
1	25	175	0.5	10	FKM EPDM NBR	80 80 40	DE25V + voltage DE25E + voltage DE25N + voltage	
1 1/4	35	390	0.5	10	FKM EPDM NBR	80 80 40	DE35V + voltage DE35E + voltage DE35N + voltage	
1 1/2	35	410	0.5	10	FKM EPDM NBR	80 80 40	DE40V + voltage DE40E + voltage DE40N + voltage	

OPTIONS

IP65 UL + CSA Approved coil & LED Connector PG11 – DIN 43650 A
 ATEX 22003EX Coil: ATEX EExmIIT4 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℃	IP65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 - 24 (DC)		12 Watts				

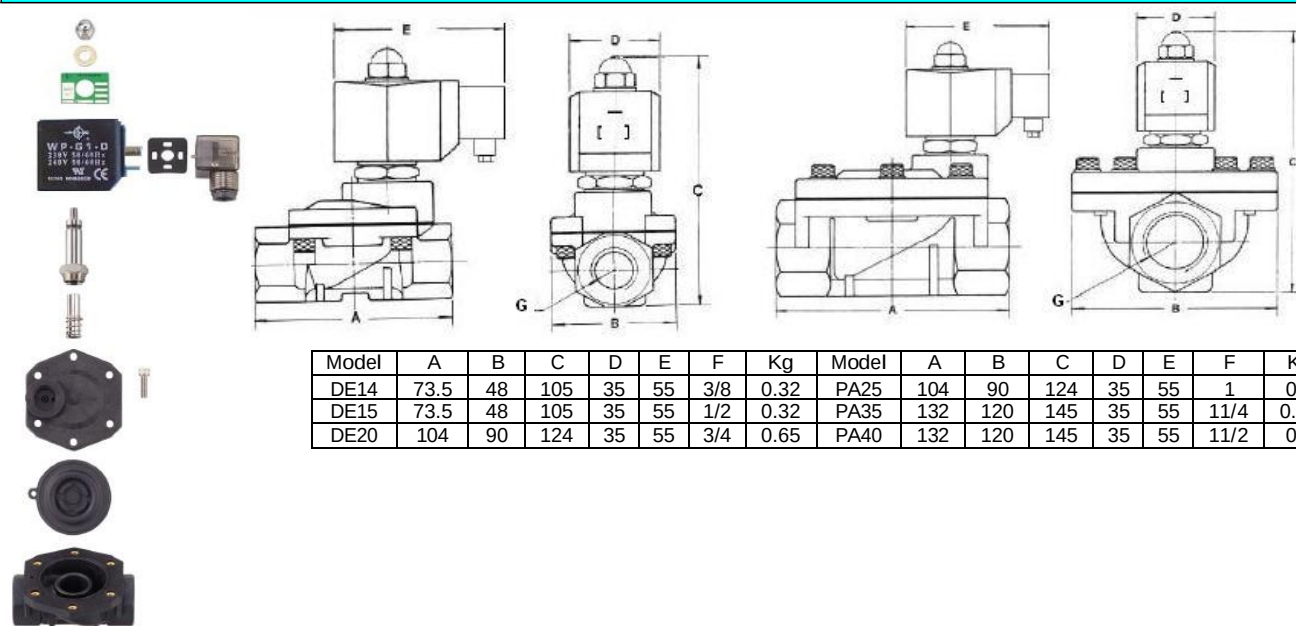
CONSTRUCTION

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

REPAIR KIT

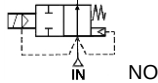
Diaphragm	SP + Valve Part Number -DIAPHRAGM
Coil	WPG1 + voltage
Armature assembly	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS



Model	A	B	C	D	E	F	Kg	Model	A	B	C	D	E	F	Kg
DE14	73.5	48	105	35	55	3/8	0.32	PA25	104	90	124	35	55	1	0.6
DE15	73.5	48	105	35	55	1/2	0.32	PA35	132	120	145	35	55	1 1/4	0.85
DE20	104	90	124	35	55	3/4	0.65	PA40	132	120	145	35	55	1 1/2	0.8

Media: slight acid – alkali – air – water
 Pressure range: 0.5 to 10 bar max
 Media temperature: -10° 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 OPEN

2 WAY SERVO ASSISTED

0.5 – 10 Bar

NO-DE



PRESSURE

Port BSP	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	NODE14V + voltage NODE14E + voltage NODE14N + voltage
1/2	15	70	0.5	10	FKM EPDM NBR	80 80 40	NODE15V + voltage NODE15E + voltage NODE15N + voltage
3/4	20	95	0.5	10	FKM EPDM NBR	80 80 40	NODE20V + voltage NODE20E + voltage NODE20N + voltage
1	25	175	0.5	10	FKM EPDM NBR	80 80 40	NODE25V + voltage NODE25E + voltage NODE25N + voltage
1 1/4	35	390	0.5	10	FKM EPDM NBR	80 80 40	NODE35V + voltage NODE35E + voltage NODE35N + voltage
1 1/2	35	410	0.5	10	FKM EPDM NBR	80 80 40	NODE40V + voltage NODE40E + voltage NODE40N + voltage

OPTIONS

IP68 (EN60529:1991+A1:2000) UL & CSA Approved Coil & IP65 Connector PG11 – DIN 43650 A
 Silver Shading Ring (NOPAXXX + S + voltage)
 ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130° C 
 * VST, CR, ECO, HNBR or Hypalon Seals

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connection
			Inrush	Holding			
~	24 - 110 - 220 - 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 (DC)		18 Watts				

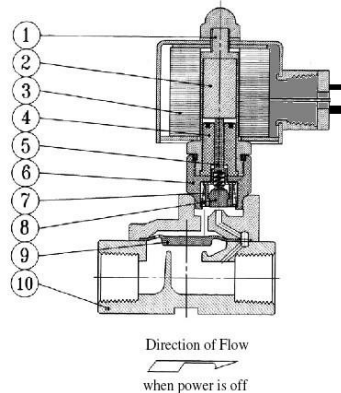
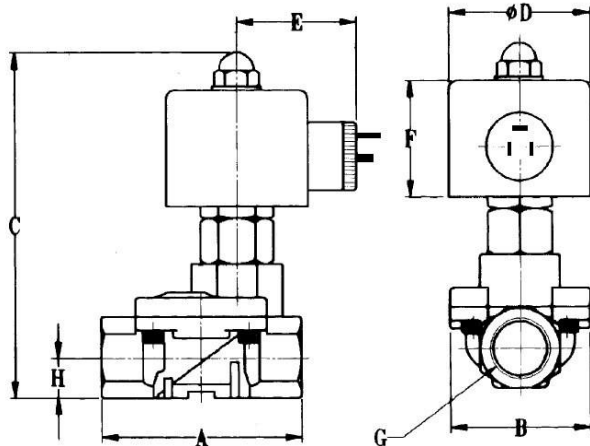
CONSTRUCTION

Body: Poly-acetate
 Tube and Spring: 304 Stainless Armature: 430F Stainless other internal parts 316 Stainless
 Moulded coil: Resin

REPAIR KIT

Diaphragm	SP + Valve Part Number -DIAPHRAGM
Coil	WPG2 + voltage
Armature + seal	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS



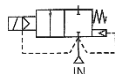
1	Tube	Stainless
2	Slide Block	Stainless
3	Coil	Brass Wire
4	Armature Core	Stainless
5	Sliding block link	Stainless
6	Joint	Stainless
7	Spring	Stainless
8	Seat	NBR, EPDM, FKM
9	Valve Body	P.O.M.

Direction of Flow

 when power is off

Model	A	B	C	D	E	F	Kg	Model	A	B	C	D	E	F	Kg
NODE14	73.5	48	128	40	65	38	1.32	NOPA25	104	90	147	40	65	38	1.65
NODE15	73.5	48	128	40	65	38	1.32	NOPA35	120	120	170	40	65	38	1.8
NODE20	104	90	147	40	65	38	1.6	NOPA40	132	120	170	40	65	38	1.85

Media: air-water
 Pressure range: 0.5 to 10 bar max
 Media temperature: +5°C to 75°C
 Ambient temperature: +5° to +40° C
 Media viscosity: 50 centistokes max
 Mounting: coil upright
 Opening / Closing time: 50 mSec Max



NC

2/2 Nylon

1/2 - 2" WRC APPROVED

N/CLOSED & N/OPEN

2 WAY SERVO ASSISTED

0.5 – 10 Bar

NY1550



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow Kv Ltr/Min	Pressure Rating (bar) ΔP		Part Number	
			Min	Max		
1/2	15	70	0.5	10	NY5301 + voltage	
3/4	20	95	0.5	10	NY6301 + voltage	
1	25	175	0.5	10	NY7301 + voltage	
1 1/4	35	390	0.5	10	NY8301 + voltage	
1 1/2	35	410	0.5	10	NY9301 + voltage	
2	50	600	0.5	10	NY10301 + voltage	

OPTIONS

Manual over ride (Twist coil)
 Flow Adjuster
 Flying lead coil (X302NC + voltage)
 Faston tags (X306NC + voltage) Normally
 Open with flying leads (X302A) Brass
 reinforced threads (X331NC + voltage)
 Latching (X301NB +9vdc) pulse on, reverse polarity pulse off
 WRC Approved X301BC (Certificate 0610054 1/2 to 1 1/4 Sizes only)

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	12 - 24 - 110 – 230 - 380 (50 or 60 Hz)	E98	6VA	4.4VA	Insulation Class II Windings Class F	IP65	Flying lead wires
=	12 - 24 (DC)		6.3 Watts				

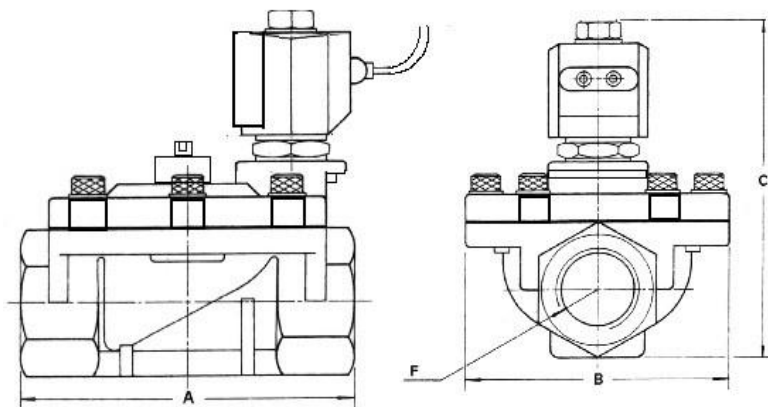
CONSTRUCTION

Body: Glass filled nylon (Tehnyl A218W V30) All WRC approved materials
 Tube and internal parts: Stainless steel
 Seals: NBR
 Moulded coil: Resin

REPAIR KIT

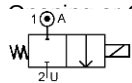
Diaphragm	SP + valve part number - DIAPHRAGM
Coil assembly (Inc Armature)	E98-20000 + voltage + Option (tag or lead connection)

OVERALL DIMENSIONS



Port F	A	B	C	Weight
1/2	114	68	111	320g
3/4	114	68	111	650g
1	125	90	130	640g
1 1/4	127	92	128	850g
1 1/2	135	92	145	840g
2	165	120	195	1040g

Media: vacuum - acid-detergent-bleach
 Pressure range: 0 to 0.7 bar max
 Media temperature: +5°C to 50°C max
 Ambient temperature: -10° to +40° C
 Media viscosity: 50 centistokes max
 Mounting: any position
 Weight (including coil): 300 g
 Closing time: 20 mSec Max



2/2 PVC **1/2 DRY- ARMATURE** **NORMALLY CLOSED** **2 WAY DIRECT ACTING** **0 – 0.5 Bar** **PVC4041**



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Pressure Rating (bar) ΔP				Seals	Part Number	
		Kv Ltr/Min	Min	Max ~10 w	Max ~10W	Max ~5.5 w			
1/2	8.0	19	0	0.7	0.4	0.5	FKM EPDM	PVC40 + seal + voltage + watt	
	8.0	19	0	-1	-0.4	-0.5	FKM EPDM	PVC41 + seal + voltage + watt	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 NPT Thread

ELECTRICAL DATA

Voltage (+10% -5%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 48 - 110 - 230 (50 or 60 Hz)	B1163	26VA	14VA	F 155°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	6 - 12 - 24 - 48		10 Watts				
~	24 - 48 - 110 - 230 (50 or 60 Hz)	1163/5,5	16VA	12VA			
=	6 - 12 - 24 - 48		5.5 Watts				

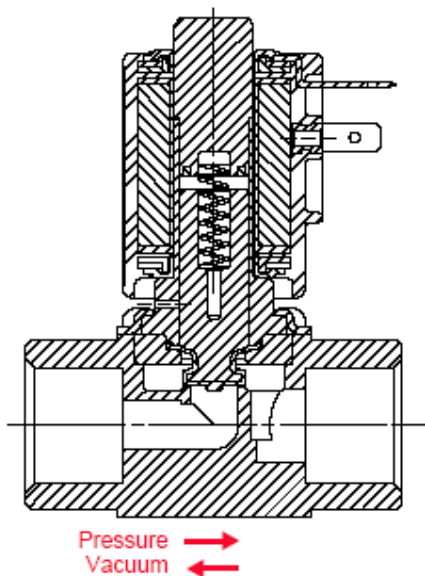
CONSTRUCTION

Body: PVC
 Tube and internal parts: Stainless steel
 Seals and gasket: PVC
 Moulded coil: Resin

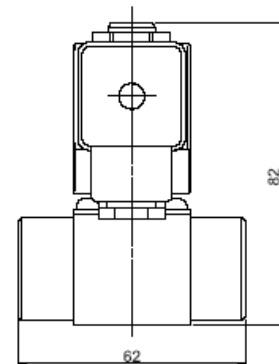
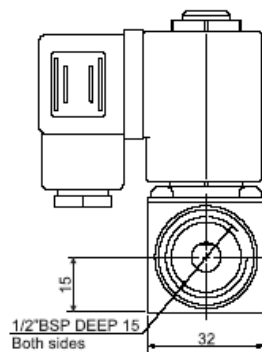
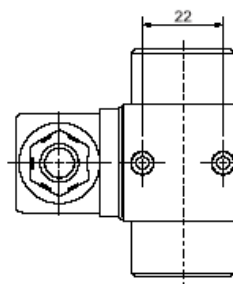
REPAIR KIT

Coil	B1163 or B1163/55 + voltage
Armature	SB + Valve Part Number -ARMATURE
Diaphragm	SB + Valve Part Number - DIAPHRAGM

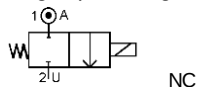
OVERALL DIMENSIONS



Pressure →
 Vacuum ←



Media: acid – detergent – bleach - vinegar
 Pressure range: 0 to 2.5 bar max
 Media temperature: -15°C to 90°C max
 Ambient temperature: -10° to +50° C
 Media viscosity: 50 centistokes max
 Mounting: any position
 Weight (including coil): 200g



2/2 PPA 1/4 DRY – ARMATURE NORMALLY CLOSED 2 WAY DIRECT ACTING 0 – 2.5 BAR NC-PPA



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Pressure Rating (bar) ΔP				Seals	Part Number	
		Kv Ltr/ min	Min	Max 10W	Max ~5.5W	Max =5.5W			
1/4	4.5	5	0	2.5	2	0.4	EPDM	NCPPA-EPDM + voltage	
	4.5	5	0	2.5	2	0.4	FKM	NCPPA - FKM + voltage	
	4.5	5	0	2.5	2	0.4	SILICONE	NCPPA-Silicone + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A
 Manual Over ride

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 48 - 110 - 240 (50 or 60 Hz)	11630	26VA	14VA	F 155°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	6 - 12 - 24 - 48 (DC)		10 Watts				
~	24 - 48 - 110 - 240 (50 or 60 Hz)	11630/55	16VA	12VA			
=	12 - 24 - 48 (DC)		5.5W				

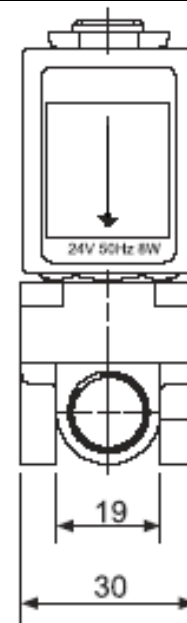
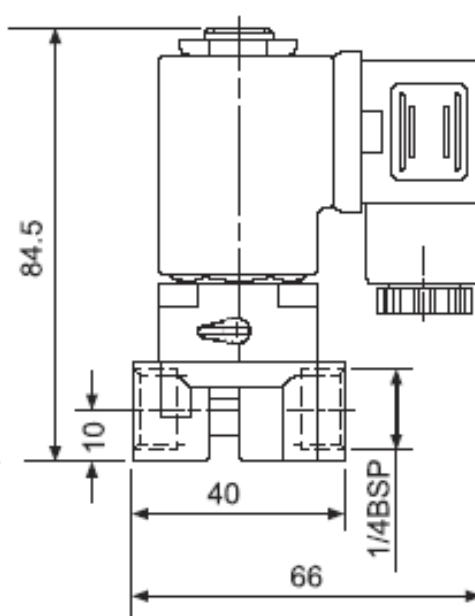
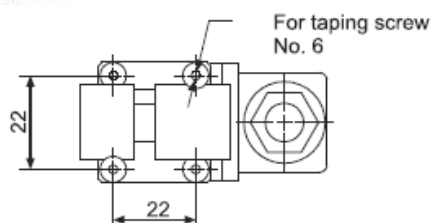
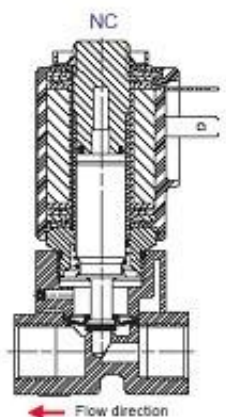
CONSTRUCTION

Body: Reinforced PPA (Polyphthalamide)
 Tube and internal parts: Stainless steel (Dry Armature)
 Seals and gasket: EPDM (Optional FKM & SILICONE)
 Moulded coil: Resin

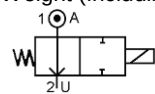
REPAIR KIT

Coil	11630 or 11630/55 + voltage
Complete plunger	SP + Valve Part Number -ARMATURE
Diaphragm	SP + Valve Part Number -DIAPHRAGM

OVERALL DIMENSIONS



Media: acid – detergent – bleach - vinegar
 Pressure range: 0 to 2.5 bar max
 Media temperature: -15°C to 90°C max
 Ambient temperature: -10° to +50° C
 Media viscosity: 50 centistokes max
 Mounting: any position
 Weight (including coil): 200g



NO

2/2 PPA 1/4 DRY - ARMATURE NORMALLY OPEN 2 WAY DIRECT ACTING 0 – 1 BAR NO-PPA



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Pressure Rating (bar) ΔP				Seals	Part Number	
		Kv Ltr/ min	Min	Max 10W	Max ~5.5W	Max =5.5W			
1/4	4.5	5	0	1	0.5	0.5	EPDM	NOPPA-EPDM + voltage	
	4.5	5	0	1	0.5	0.5	FKM	NOPPA-FKM + voltage	
	4.5	5	0	1	0.5	0.5	SILICONE	NOPPA-SILICONE + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A

ELECTRICAL DATA

Voltage (-10% + 15%) Continuous duty 100%		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 48 - 110 - 240 (50 or 60 Hz)	11630	26VA	14VA	F 155°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	6 - 12 - 24 - 48 (DC)		10 Watts				
~	24 - 48 - 110 - 240 (50 or 60 Hz)	11630/55	16VA	12VA			
=	12 - 24 - 48 (DC)		5.5W				

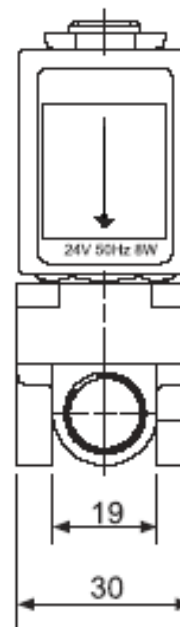
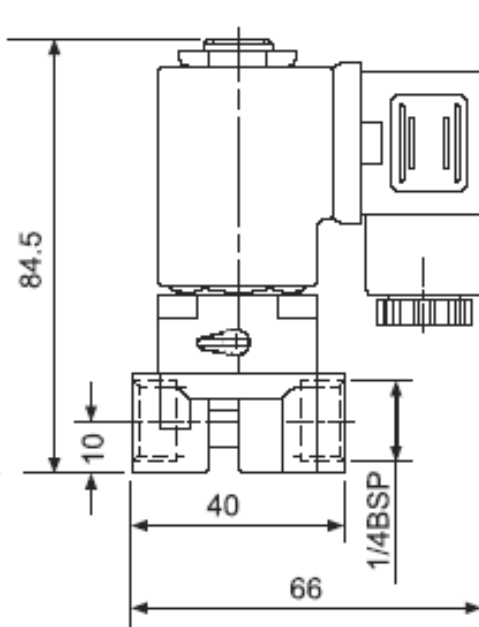
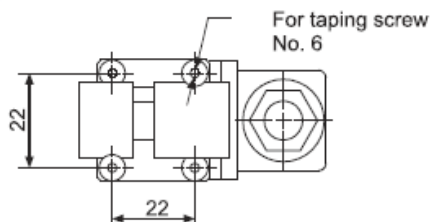
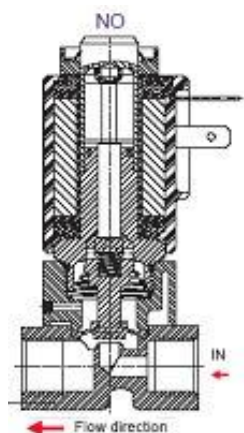
CONSTRUCTION

Body: Reinforced PPA (Polyphthalamide)
 Tube and internal parts: Stainless steel (Dry Armature)
 Seals and gasket: EPDM (Optional FKM & SILICONE)
 Moulded coil: Resin

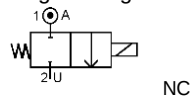
REPAIR KIT

Coil	30 or 30/55 + voltage
Armature	SP + Valve Part Number – ARMATURE
Diaphragm	SP + Valve Part Number - DIAPHRAGM

OVERALL DIMENSIONS



Media: Sulphuric Acid – Hydrochloric Acid
 Pressure range: 0 to 1 bar max
 Media temperature: -5°C to +80°C max
 Ambient temperature: -10°C to +40°C max
 Media viscosity: 20 centistokes max
 Mounting: any position
 Weight: 600g



2/2 PVC

1/4 – 1/2 DRY- ARMATURE

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 1 Bar

PVC815



PRESSURE

Ø Port BSP	Ø Orifice (mm)	Flow	Pressure Rating (bar) ΔP			Part Number	
		Kv Ltr/min	Min	Max AC	Max DC		
1/4	6.5	4.7	0	1	0.7	PVC8 + voltage	
3/8	6.5	4.7	0	1	0.7	PVC10 + voltage	
1/2	6.5	4.7	0	1	0.7	PVC15 + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A

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)	WPA2	40VA	24.2VA	H 180°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 - 24 (DC)		18 Watts				

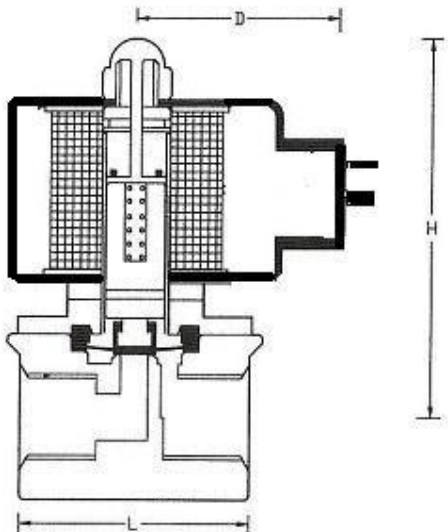
CONSTRUCTION

Body: PVC (Dry Armature)
 Tube: stainless steel, armature 430F stainless steel
 Shading ring: copper
 Seals and gaskets: PTFE
 Moulded coil: Resin
 Not suitable for Vacuum

REPAIR KIT

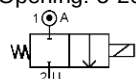
Coil	WPA2 + voltage
Core tube & armature assembly	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS



Model	L	H	D
PVC8	54	103	48
PVC10	54	103	48
PVC15	54	103	48

Media: acid – alkali - water –light oil
 Pressure range: 0 to 10 bar max
 Media temperature: -5°C to +80°C max
 Ambient temperature: +5°C to +40°C
 Media viscosity: 50 centistokes max
 Mounting: any position
 Opening: 5-20mSec Closing: 25-100 mSec



NC

2/2 PTFE

1/4 – 3/4 DRY - ARMATURE

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 9 Bar

PTFE620



PRESSURE

Ø Port BSP	Orifice Ø (mm)	Flow Kv Ltr/min	Pressure Rating (bar) ΔP						Part Number		
			Min	*ATEX 22003EX Coil		18 Watt 22005 Coil		25 Watt 22006 Coil			
				Gas	Fluid	Gas	Fluid	Gas			Fluid
1/4 (06)	2.5	1.8	0	1.5	4.0	4.0	5.0			PTFE0615 + voltage	
	4.0	4.3	0	1.0	3.5	2.5	4.0			PTFE0625 + voltage	
	6.0	9.5	0	0.5	2.0	1.0	3.0			PTFE0635 + voltage	
	2.5	1.8	0					6**	9**	PTFE0616 + voltage	
	4.0	4.3	0					3**	7**	PTFE0626 + voltage	
	6.0	9.5	0					2**	5**	PTFE0636 + voltage	
3/8 (08)	4.0	4.3	0	1.0	3.0	2.5	4.0			PTFE0815 + voltage	
	6.0	9.5	0	0.2	1.0	1.0	3.0			PTFE0825 + voltage	
	8.0	15	0			0.5	1.0			PTFE0835 + voltage	
	4.0	4.3	0					3**	7**	PTFE0816 + voltage	
	6.0	9.5	0					2**	5**	PTFE0826 + voltage	
	8.0	15	0					1.5**	3**	PTFE0836 + voltage	
1/2 (15)	6.0	16.7	0					3.0	5.0	PTFE1516 + voltage	
	9.0	25	0					1.5	3.0	PTFE1526 + voltage	
	12.0	33.3	0					0.5	2.0	PTFE1536 + voltage	
3/4 (20)	10.0	27.5	0					1.0	3.0	PTFE2016 + voltage	
	15.0	41.7	0					-	0.5	PTFE2026 + voltage	

OPTIONS

IP65 Coil & Connector PG9 – DIN 43650 A

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

** Special Order please check availability

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100% (Vac 50%)		Coil	Power Consumption		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	24 - 48 - 110 - 220 - 380 (50 or 60 Hz)	22005	33VA	24VA	F 155°C	IP 65 with connector	3 spades DIN 43650 DIN 40050 VDE 0110
=	12 - 24 - 48 (DC)		18 Watts				
~	110 – 230 (rectified to DC)	22006	66VA	46VA			
=	24 (DC)		25 Watts				

CONSTRUCTION

Body: PTFE (all wetted parts PTFE) other parts stainless steel

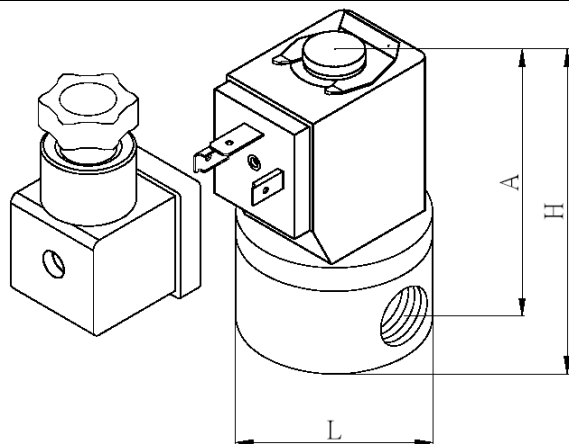
Tube and internal parts: Stainless steel (Dry armature)

Seal: PTFE encapsulated FKM

REPAIR KIT

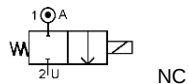
Coil	Coil size (22005 or 22006) + voltage
Diaphragm	SP + Valve Part Number –DIAPHRAGM
Armature	SP + Valve Part Number -ARMATURE

OVERALL DIMENSIONS



Type	A		B		C		Kg
Coil	22005	22006	22005	22006	22005	22006	
PTFE06	67	82.5	77	93	45		0.5
PTFE10	68.5	84	80	95.5	45		0.5
PTFE15		93		109		70	0.9
PTFE20		96.5		116		70	1.0

Media: acid – alkali - water –light oil
(Not suitable for vacuum)
Pressure range: 0 to 5 bar max
Media temperature: +5°C to +40°C max
Ambient temperature: +5°C to +40°C
Media viscosity: 50 centistokes max
Mounting: any position



2/2 PTFE

1/4 - 1 DRY-ARMATURE

NORMALLY CLOSED

2 WAY DIRECT ACTING

0 – 5 Bar

PTFE313



PRESSURE

Ø Port BSP	Orifice Ø (mm)	Coil	Flow Kv Ltr/min	Pressure Rating (bar) ΔP		Part Number
				Min	Max	
1/4	3	WPG1	4.3	0	2	1/4-3PTF + voltage
	6	WPG1	9.1	0	0.5	1/4-6PTF + voltage
3/8	3	RF2	4.3	0	5	3/8-3PTF + voltage
	5	22003	7.1	0	1	3/8-5PTF+ voltage
	6	RF2	9.1	0	1	3/8-6PTF + voltage
1/2	5	22003	7.1	0	1	1/2-5PTF + voltage
	8	22514S	18	0	1	1/2-8PTF + voltage
	12	22514S	35	0	0.5	1/2-12PTF + voltage
3/4	13	22514S	67	0	0.5	3/4-13PTF + voltage
1	13	22514S	67	0	0.5	1-13PTF + voltage

OPTIONS

IP65 Coil & LED Connector PG11 – DIN 43650 A (Except SVC 204 + UDC - flying lead coil only)

ATEX 22003EX Coil: ATEX EExmIIT4 II 2G & 2D IP65 T130°C (PE + SVC only Pressure Reduced by 50%)

ELECTRICAL DATA

Voltage (-10% + 10%) Continuous duty 100%		Coil	ELECTRICAL DATA		Insulation class	Enclosure	Electrical connections
			Inrush	Holding			
~	110 - 220 (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 (DC)		12 Watts				
~	110 - 220 (50 or 60 Hz)	WPG2	18.7VA	15.3VA			
=	12 - 24 (DC)		18 Watts				
~	24 - 48 - 110 - 220 - 380 (50 or 60 Hz)	22003	23VA	17VA	F 155°C	IP54	30 cm flying lead
=	12 - 24 - 48 (DC)		15 Watts				
~	110 - 220 (50 or 60 Hz)	22514S	21VA	15.4VA			
=	12 - 24 (DC)		12.5 Watts				

CONSTRUCTION

Body: PTFE (all wetted parts PTFE) other parts stainless steel

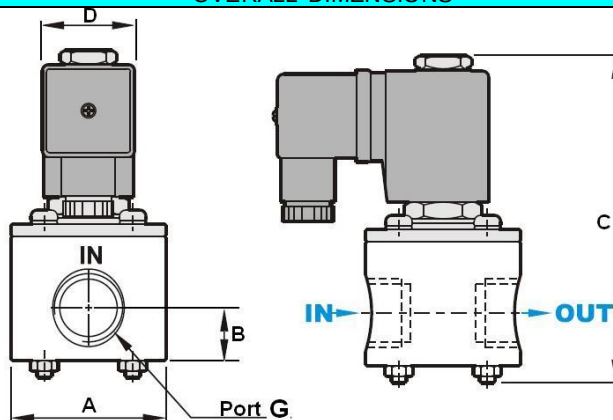
Tube and internal parts: Stainless steel (Dry armature)

Seal: PTFE encapsulated FKM

REPAIR KIT

Coil	Coil size (WPG1 or WPG2 or 22003 or 22514S) + voltage
Diaphragm	SP + Valve Part Number -DIAPHRAGM

OVERALL DIMENSIONS



Model	1/4-3	3/8-3 3/8-6	3/8-5	1/2-8 1/2-12	1/2-5	3/4-13	1-13
Port	1/4	3/8	3/8	1/2	1/2	3/4	1
A	40	50	50	70	55	75	75
B	12.5	21	21	28.5	21	25	25
C	89	112	105	149	110	143	143
D	42	52	28	71	28	70	70
Weight	280g	480g	440g	1300	440g	1800g	1800g