

21PW - 21A-PW SERIES

General Purpose, 2-way, Indirect Acting

21PW - 21A-PW are indirect acting, piston solenoid valves. These valves require a minimum operating pressure of 0,3 bar. They are suitable for compressors. These solenoid valves are not suitable for stagnating fluids, or for fluids that being subject to evaporation may deposit solid, calcareous or similar residues.
2/2 NO valves are available also with 22 mm coils.



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TECHNICAL DATA

PORT CONNECTION	G 1/4		G3/8 to G1/2
SEALING MATERIALS	soft		hard
	FKM	hnbr	PTFE
FLUID TEMPERATURE	-10°C +140°C		
FLUIDS	Air, inert gas, water		
VISCOSITY	max. 12 cSt		
TUBE Ø - COIL WIDTH - SERIES	ø 10 mm - 22 mm		LBA05, LTA05 (class F), LBV05 (class H)
	ø 13 mm - 30 mm		BDA08, BVA08 (class F), BDV08 (class H)
	ø 13 mm - 30 mm		UDV16 (CLASS H)
	ø 13 mm - 30 mm		GDV14 (CLASS H)
INSTALLATION	as required, preferably with actuator upright		
PROTECTION DEGREE	IP65 EN 60529 (DIN 40050) with plug connector		

- MOPD values are referred to "standard power" coil range. Please refer to coil chapter.

MATERIALS

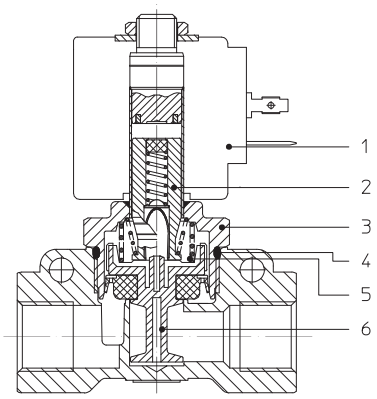
BODY, ORIFICE	Brass UNI EN 12165 CW617N
ARMATURE TUBE	Stainless steel AISI Series 300
FIXED CORE	Stainless steel AISI Series 400
PLUNGER	Stainless steel AISI Series 400
PHASE DISPLACEMENT RING	Copper (Cu 99,9%) or gold plated copper
SPRING	Stainless steel AISI Series 300
PISTON	Stainless steel AISI Series 300 + PPS (for G3/8 to G1/2)
PISTON SEAL	FKM (for G3/8 to G1/2)
SEALING	V=FKM, T=PTFE

- **CE**
  - 2014/35/EU (LVD)
  - 2014/30/EU (EMC)
  - 2014/68/EU (PED), art. 4.3 up to 1"
- **UL** regognized and **VDE** approved coils are available for this series, please refer to coil section.
- **EXPLOSION PROOF COILS**, suitable for zone 2-22 are available for this series. Please refer to ATEX coil section for further details.

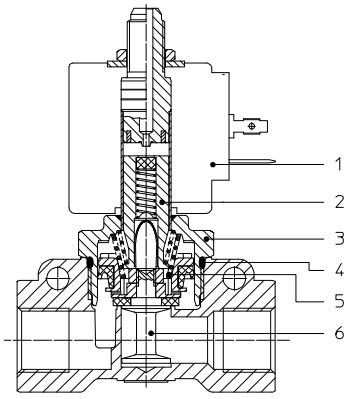
- The fluids listed in the "technical data" tables should be considered as a recommendation. Please check the chemical compatibility of the fluids with the materials of the valve at RFQ stage.
- For spare parts list please refer to the dedicated chapter.

Please read and agree our GENERAL CONDITIONS before placing an order. All the information are exclusive ownership of ODE S.r.l. All rights reserved ©ODE S.r.l.

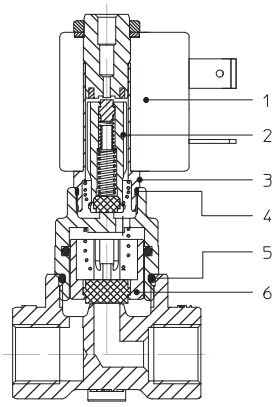
NC, FKM, G3/8 AND G1/2



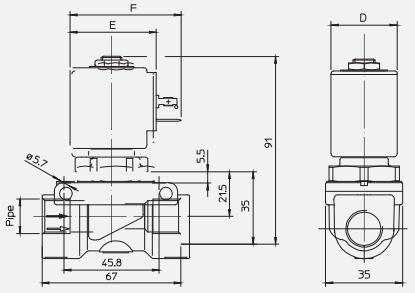
NO, PTFE, G3/8 AND G1/2 (SEZIONE PER 21PW SERIES)



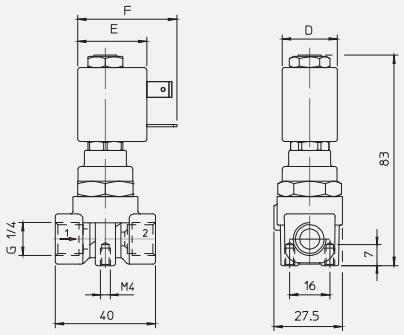
NO, G1/4



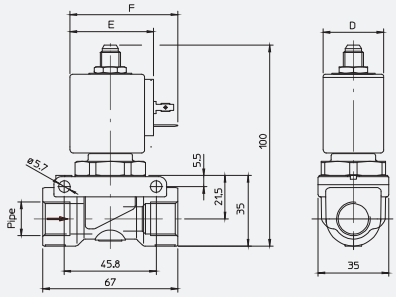
DRAWING 1



DRAWING 2



DRAWING 3



COIL SERIES	DIMENSIONS [mm]		
	D	E	F
L**05	22	28±1	39,5
B**08	30	42	54
UDV16	36	48	60
GDV14	52	55	67

2/2 NC WITH FKM SEALING

PIPE	ORIFICE SIZE	Kv	COIL SERIES	PRESSURE [bar]				CODE		DRAWING REFERENCE
				MIN	MOPD		PS	BRASS	STAINLESS STEEL	
ISO 228/1	Ø [mm]	[l/min]			AC	DC				
G3/8	12	32	B**08	0,3	15	-	25	21PW3K0V120	-	1
			UDV16	0,3	15	-	25	21PW3K0V120	-	1
			GDV14	0,3	15	10	25	21PW3K0V120	-	1
G1/2	12	38	B**08	0,3	15	-	25	21PW4K0V120	-	1
			UDV16	0,3	15	-	25	21PW4K0V120	-	1
			GDV14	0,3	15	10	25	21PW4K0V120	-	1

2/2 NC WITH PTFE SEALING

PIPE	ORIFICE SIZE	Kv	COIL SERIES	PRESSURE [bar]				CODE		DRAWING REFERENCE
				MIN	MOPD		PS	BRASS	STAINLESS STEEL	
ISO 228/1	Ø [mm]	[l/min]			AC	DC				
G3/8	12	32	B**08	0,5	18	-	25	21PW3K0T120	-	1
			UDV16	0,5	20	-	25	21PW3K0T120	-	1
			GDV14	0,5	20	15	25	21PW3K0T120	-	1
G1/2	12	38	B**08	0,5	18	-	25	21PW4K0T120	-	1
			UDV16	0,5	20	-	25	21PW4K0T120	-	1
			GDV14	0,5	20	15	25	21PW4K0T120	-	1

2/2 NO WITH SOFT SEALING

PIPE	ORIFICE SIZE	Kv	POWER RANGE	PRESSURE [bar]				CODE		DRAWING REFERENCE
				MIN	MOPD		PS	BRASS	STAINLESS STEEL	
ISO 228/1	Ø [mm]	[l/min]			AC	DC				
G1/4	5,5	9	L**05	0,5	12	-	25	21A2W0F55-PW	-	2
					15	-	25	21A2Y0F55-PW	-	2
G 3/8	12	32	B**08	0,3	15	15	25	21PW3F0V120	-	3
G 1/4	12	38	B**08	0,3	15	15	25	21PW4F0V120	-	3

2/2 NO WITH PTFE SEALING

PIPE	ORIFICE SIZE	Kv	POWER RANGE	PRESSURE [bar]				CODE		DRAWING REFERENCE
				MIN	MOPD		PS	BRASS	STAINLESS STEEL	
ISO 228/1	Ø [mm]	[l/min]			AC	DC				
G 3/8	12	32	B**08	0,5	18	18	25	21PW3F0T120	-	3
G 1/4	12	38	B**08	0,5	18	18	25	21PW3F0T120	-	3

CODIFICATION 21 PW

I	II	III	IV	V	VI	VII	VIII
2	1	PW	3	K	0	V	120

I. NUMBER OF WAYS
2 - 2 - way

II. NUMBER OF ELEMENTS
1 - 1 element

III. SERIES
PW - piston valve, up to G1/2

IV. CONNECTIONS
3 - G3/8
4 - G1/2

V. CORE TUBE TYPE
K - for 2/2 NC valves
F - for 2/2 NO valves

VI. SHADING COIL OPTIONS
0 - copper

VII. SEALING MATERIAL
V - FKM
T - PTFE

VIII. ORIFICE Ø [mm] MULTIPLIED BY 10

CODIFICATION 21A-PW

I	II	III	IV	V	VI	VII	VIII		IX
2	1	A	2	Y	0	V	120	-	PW

I. NUMBER OF WAYS
2 - 2 - way

II. NUMBER OF ELEMENTS
1 - 1 element

III. SERIES
A - piston valve, up to G1/4

IV. CONNECTIONS
2 - G1/4

V. CORE TUBE TYPE
Y - for 2/2 NO 3rd way exhaust Ø 1.2 mm
W - for 2/2 NO 3rd way exhaust Ø 1.5 mm

VI. PHASE DISP. RING MATERIAL
0 - copper

VII. SEALING MATERIAL
F - HNBR

VIII. ORIFICE Ø [mm] MULTIPLIED BY 10

IX. VERSIONS
PW - piston type