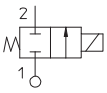


21TG SERIES

General Purpose, 2-way, Direct Acting

21TG are one-piece construction, direct acting solenoid valves. Body and armature tube are integrated in one single component. Valves do not require a minimum operating pressure.



1

TECHNICAL DATA

PORT CONNECTION	G1/8 to G1/4	
SEALING MATERIALS	NBR	FKM
FLUID TEMPERATURE	-10°C +90°C	-10°C +140°C
FLUIDS	Air, inert gas, water	oils, gasoline, diesel
VISCOSITY	37 cSt for orifice 1.7 and 2.2 mm, 53 cSt for orifice 2.8 mm and above	
TUBE Ø - COIL WIDTH - SERIES	ø 13 mm - 30 mm	BDA08. BVA08 (CLASS F), BDV08 (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

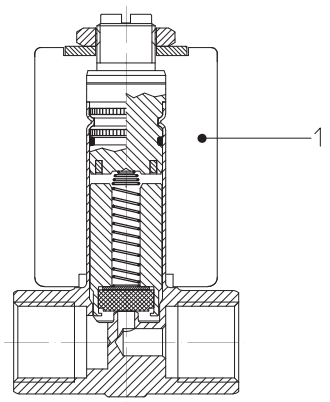
BODY, ARMATURE TUBE, ORIFICE	Brass UNI EN 12165 CW617N
ARMATURE TUBE O-RING	B=NBR, V=FKM
FIXED CORE	Stainless steel AISI Series 400
PLUNGER	Stainless steel AISI Series 400
PHASE DISPLACEMENT RING	Copper (Cu 99,9%) or gold plated copper
SPRING	Stainless steel AISI Series 300
SEALING	B=NBR, V=FKM

- **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.

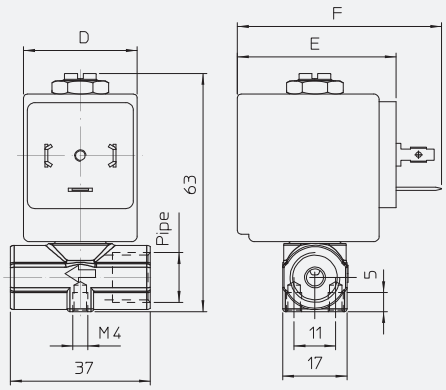
Please read and agree our GENERAL CONDITIONS before placing an order. All the information are exclusive ownership of ODE S.r.l. All rights reserved ©ODE S.r.l.

- 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.

NC, BRASS



DRAWING 1



COIL SERIES	DIMENSIONS [mm]		
	D	E	F
B**08	30	42	54

PIPE	ORIFICE SIZE	Kv	COIL SERIES	PRESSURE [bar]				CODE		DRAWING REFERENCE
ISO 228/1	Ø [mm]	[l/min]		MIN	MOPD AC	MOPD DC	PS	BRASS	STAINLESS STEEL	
G1/8	1,7	1,5	B**08	0	30	20	40	21TG1KR0V17	-	1
	2,2	2,1	B**08	0	20	15	40	21TG1KR0V22	-	1
	2,8	3,5	B**08	0	14	10	40	21TG1KR0V28	-	1
	4,0	5,0	B**08	0	6	3	40	21TG1KR0V40	-	1
G1/4	1,7	1,5	B**08	0	30	20	40	21TG2KR0V17	-	1
	2,2	2,1	B**08	0	20	15	40	21TG2KR0V22	-	1
	2,8	3,5	B**08	0	14	10	40	21TG2KR0V28	-	1
	4,0	5,0	B**08	0	6	3	40	21TG2KR0V40	-	1

- For sealing different from FKM replace the letter "V" with the ones corresponding to the other materials V=FKM, B = NBR

CODIFICATION

I	II	III	IV	V	VI	VII	VIII	IX	X
2	1	TG	2	KR	0	V	17	-	

I. NUMBER OF WAYS
2 - 2 - way

II. NUMBER OF ELEMENTS
1 - 1 element

III. SERIES
TG - 2/2 NC with integrated core tube

IV. CONNECTIONS
1 - G1/8
2 - G1/4

V. CORE TUBE TYPE
KR - for 2/2 NC valves, 8 W coil

VI. PHASE DISP. RING MATERIAL
0 or blank - copper

VII. SEALING MATERIAL
V - FKM
B - NBR

VIII. ORIFICE Ø [mm] MULTIPLIED BY 10

IX. OPTIONS
XF - integrated filter on inlet port

OPTIONS AVAILABILITY

OPTION	VALVE TYPE	BODY MATERIAL	SEALING MATERIAL	VALVE SIZE/CONNECTIONS G1/8	VALVE SIZE/CONNECTIONS G1/4	NOTES
XF	2/2 NC	Brass	B, V	X		Non removable filter, StSt material

- Please contact ODE if you wish to combine more options.