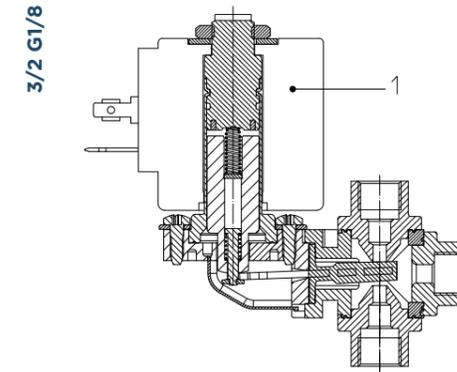


# 31KP SERIES

## Food Grade NSF, Direct Acting

**31KP** are total separation, lever type solenoid valves. Valves do not require a minimum operating pressure. A large selection of seal materials provides wide chemical compatibility. AC/DC interchangeability of the coil is possible for both NC and NO configurations.



Solenoid Valves ■ General purpose ■ Food Grade NSF ■ **31KP SERIES**

**TECHNICAL DATA**

PORT CONNECTION	G 1/8 (F), push in OD 8 mm	
SEALING MATERIALS	VMQ	
FLUID TEMPERATURE	+2°C +100°C	
FLUIDS	Air, water, neutral fluids	
VISCOSITY	21 cSt	
TUBE Ø - COIL WIDTH - SERIES	ø 13 mm - 30 mm	BDV08 (class H)
PROTECTION DEGREE	IP65 EN 60529 (DIN 40050) with plug connector	

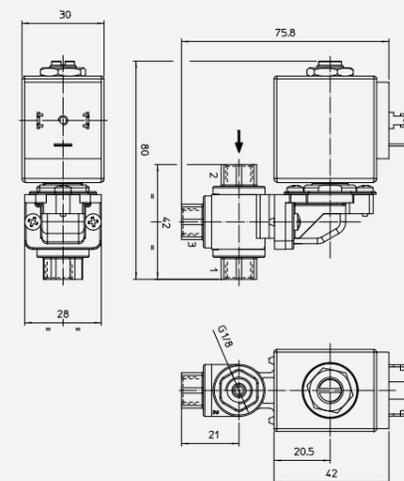
**MATERIALS**

BODY, ORIFICE	PSU (polysulphone)	
ARMATURE TUBE	Brass - UNI EN 12164 CW614N	
FIXED CORE	Stainless steel AISI series 400	
PLUNGER	Stainless steel AISI series 400	
PHASE DISPLACEMENT RING	Copper	
SPRING	Stainless steel AISI series 300	
SEALING	S= VMQ	
MOUNTING BRACKET	Stainless steel AISI 304	

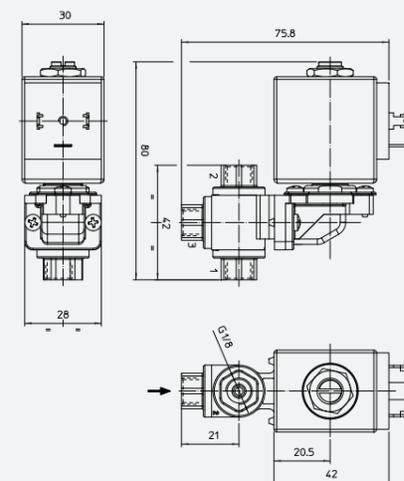
- **CE**
  - 2014/35/EU (LVD)
  - 2014/30/EU (EMC)
  - 2014/68/EU (PED)
  - art. 4.3 up to 1"
- **UL** recognized and **VDE, CSA** approved coils are available for this series, please refer to coil section.
- **NSF/ANSI 169** certification (Special Food Equipment and Devices) is available for this series, Valves with NSF approval are in compliance with CE regulation 1935/2004.

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.

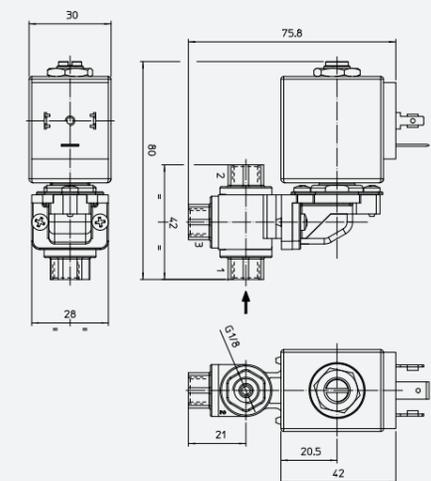
**DRAWING 1**



**DRAWING 3**



**DRAWING 2**



▪ 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.  
 ▪ G type thread in accordance with ISO 228/1.  
 ▪ For spare parts list please refer to the dedicated chapter.

3/2 NC

PIPE	ORIFICE SIZE Ø [mm]	Kv [l/min]	COIL SERIES	PRESSURE [bar]			CODE	DRAWING REFERENCE	
				MIN	MOPD				PS
					AC	DC			
G1/8	3	4,5	B**08	0	1	1	8	31KPCF1KRS30-T0	1

- Max torque for fittings assembly 2 Nm
- In case glue is used to seal the fittings, verify the compatibility with body material

3/2 NO

PIPE	ORIFICE SIZE Ø [mm]	Kv [l/min]	COIL SERIES	PRESSURE [bar]			CODE	DRAWING REFERENCE	
				MIN	MOPD				PS
					AC	DC			
G1/8	3	4,5	B**08	0	2	2	8	31KPAF1KRS30-T0	2

- Max torque for fittings assembly 2 Nm
- In case glue is used to seal the fittings, verify the compatibility with body material

3/2 DIST.

PIPE	ORIFICE SIZE Ø [mm]	Kv [l/min]	COIL SERIES	PRESSURE [bar]			CODE	DRAWING REFERENCE	
				MIN	MOPD				PS
					AC	DC			
G1/8	3	4,5	B**08	0	6	4	8	31KPDF1KRS30-T0	3

- Max torque for fittings assembly 2 Nm
- In case glue is used to seal the fittings, verify the compatibility with body material

I	II	III	IV	V	VI	VII	VIII	IX	X
3	1	KP	C	F1	KR	S	30	-	TO

CODIFICATION

**I. NUMBER OF WAYS**  
3 - 3 - way

**II. NUMBER OF ELEMENTS**  
1 - number of elements

**III. SERIES**  
KP - total separation, lever valves

**IV. FUNCTION**  
C - NC  
A - NA  
D - Distribution

**V. CONNECTIONS**  
F1 - G1/8 (F)

**VI. CORE TUBE TYPE**  
KR - Ø13 mm

**VII. SEALING MATERIAL**  
S - VMQ

**VIII. ORIFICE Ø [mm] MULTIPLIED BY 10**

**IX. OPTIONS**  
LD - mounting bracket on "right" side  
LS - mounting bracket on "left" side

**X. NSF CERTIFICATION**  
TO - PSU body

