

Series KN and KN High Flow directly operated solenoid valves

3/2-way - Normally Closed (NC) and Normally Open (NO) 2/3-way - Universal (UNI)





- » Low energy consumption
- » Compact design
- » High Flow
- » ISO 15218 Interface
- » Version for use with oxygen available

Thanks to its low energy consumption and to its compact design, the KN miniaturized solenoid valve can be used in industrial and scientific applications.

The Series KN directly operated solenoid valves are available also in the high flow version (KN High Flow).

GENERAL DATA

TECHNICAL FEATURES

Function 3/2 NC - 3/2 NO - 3/2 UNI **Operation** direct acting poppet type

Pneumatic connections on subbase with ISO 15218 interface by means of screws

Nominal diameter 0.65 ... 1.1 mm

Nominal flow 10 ... 25 Nl/min (air @ 6 bar ΔP 1 bar)

 $\begin{array}{lll} \mbox{Flow coefficient kv (l/min)} & 0.15 \dots 0.39 \\ \mbox{Operating pressure} & 0 \div 3 \dots 7 \mbox{ bar} \\ \mbox{Operating temperature} & 0 \mbox{°C} \div 50 \mbox{°C} \\ \end{array}$

Media filtered compressed air, unlubricated, according to ISO 8573-1 class 3.4.3, inert gas

 Response time
 ON <10 msec - OFF <10 msec</td>

 Manual override
 monostable button

 Installation
 in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body PBT technopolymer
Seals FKM, NBR
Internal parts stainless steel

ELECTRICAL FEATURES

Voltage5 ... 24 V DC - other voltages on demandVoltage tolerance1.3/0.25 ... 4/1 W (inrush/holding)

Power consumption ED 100%
Duty cycle connector
Electrical connection IP50
Protection class

Special versions available on demand



CODING EXAMPLE

KN	0	00	_	3	0	3	_	к	1	3	
1714	U	00			U			11	_		

KN	0	00	-	3	0	3	-	K	1	3	
KN	SERIES										
0	BODY DESIGN: 0 = single valve										
00	NUMBER OF POS 00 = interface	ITIONS:									
3	NUMBER OF WAY 3 = 3/2-way NC 4 = 3/2-way NO 7 = 3/2-way UN										
0	PORTS: 0 = single valve										
3	3 = Ø 0.65 mm 5 = Ø 1.1 mm - r	TER / MAX PRESSURE nax pressure 7 bar nax pressure 3 bar	:								
K		M poppet seal, FKM (M poppet seal, NBR (
1		NECTION: ion with protection a ection with protection									
3	VOLTAGE - POWE 2 = 12 V DC - 1.3 3 = 24 V DC - 1.3 5 = 5 V DC - 4/1 6 = 6 V DC - 4/1 7 = 12 V DC - 4/1 8 = 24 V DC - 4.1	/0.25 W W W . W									
		for mounting on pla for mounting on me									
	OPTIONS:										

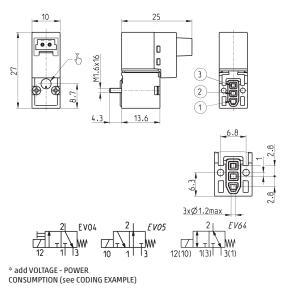
3/2-way solenoid valve - 90° electrical connection

= standard OX2 = for use with oxygen (non volatile residual less than 33 mg/m²)



Supplied with: 1x interface seal 2x screws M1.6x16 UNI 10227 (fixing for plastics, standard) or 2x screws M1.6x16 UNI 7687 (fixing for metal, M option)

Mod.	Function	Orifice Ø (mm)	kv (l/ min)	Qn (Nl/ min)	Min÷max pressure (bar)	Power consumption (W)	Symb.
KN000-303-K1*	3/2 NC	0.65	0.15	10	0 ÷ 7	1.3 / 0.25	EV04
KN000-303-F1*	3/2 NC	0.65	0.15	10	0 ÷ 7	1.3 / 0.25	EV04
KN000-305-F1*	3/2 NC	1.1	0.39	25	3 ÷ 7	4/1	EV04
KN000-306-F1*	3/2 NC	1.1	0.39	-	0 ÷ 3	4/1	EV04
KN000-403-F1*	3/2 NO	0.65	0.15	10	0 ÷ 7	1.3 / 0.25	EV05
KN000-706-F1*	3/2 UNI	1.1	0.39	-	0 ÷ 1.5	4/1	EV64



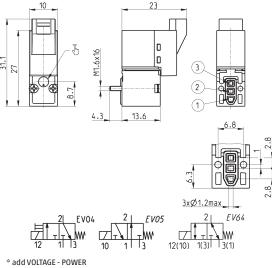


3/2-way solenoid valve - in-line electrical connection



Supplied with:
1x interface seal
2x screws M1.6x16 UNI 10227
(fixing for plastics, standard)
or
2x screws M1.6x16 UNI 7687
(fixing for metal, M option)

Mod.	Function	Orifice Ø (mm)	kv (l/ min)	Qn (Nl/ min)	Min÷max pressure (bar)	Power consumption (W)	Symb.
KN000-303-KB*	3/2 NC	0.65	0.15	10	0 ÷ 7	1.3 / 0.25	EV04
KN000-303-FB*	3/2 NC	0.65	0.15	10	0 ÷ 7	1.3 / 0.25	EV04
KN000-305-FB*	3/2 NC	1.1	0.39	25	3 ÷ 7	4/1	EV04
KN000-306-FB*	3/2 NC	1.1	0.39	-	0 ÷ 3	4/1	EV04
KN000-403-FB*	3/2 NO	0.65	0.15	10	0 ÷ 7	1.3 / 0.25	EV05
KN000-706-FB*	3/2 UNI	1.1	0.39	-	0 ÷ 1.5	4/1	EV64

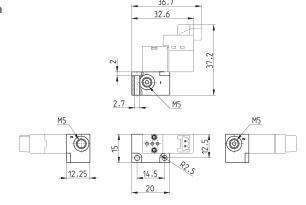


* add VOLTAGE - POWER CONSUMPTION (see CODING EXAMPLE)

Single sub-base



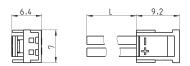
Note: use solenoid valves with mounting screws on metal interfaces (see codification).



Mod. KN01-02

Connector Mod. 121-8..





Mod.	description	colour	L = cable length (mm)	cable holding
121-803	crimped cable	black	300	crimping
121-806	crimped cable	black	600	crimping
121-810	crimped cable	black	1000	crimping
121-830	crimped cable	black	3000	crimping