

# series DM

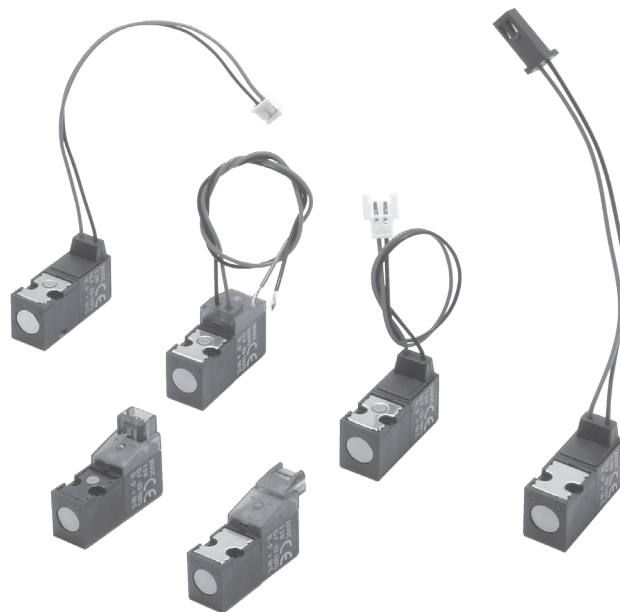
## Direct acting solenoid valves 10 mm

### DESCRIPTION

The direct acting solenoid valves series "DM" are produced in the 3/2 N.C. pneumatic function with the interface to ISO 15218 and in the 3/2 N.O. - 3/2 N.C. and 2/2 N.C. pneumatic functions with not standardized interface. These valves can be used with all the fluids that can match the constructive materials. The versions with nominal diameter of 1.1 mm are equipped with "CRP" (Power Reduction Circuit, see below). They can comply with ATEX directive, 3GD category, upon request.

### TECHNICAL DATA

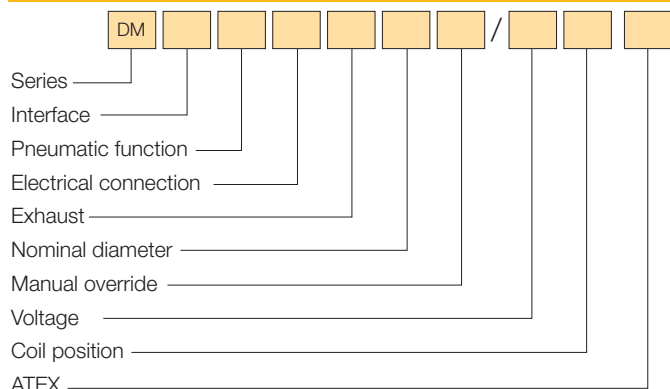
Nominal diameter	0,7 mm (standard coil)	1,1 mm (coil with "CRP")
Flow rate 1-2 at 6 bar $\Delta p=1$	14 NI/min	24 NI/min
Flow rate 2-3 at 6 bar $\Delta p=1$	22 NI/min	30 NI/min
Interface	to ISO 15218 or not standardized	
Operating pressure	0 ÷ 7 bar	
Working temperature	-5 ÷ +50 °C	
Fluid	Compressed air, filtered, continuous lubricated, unlubricated or dry lubricated	
Max. operating frequency	≤40 Hz	
Coil	Adjustable	
Voltages	DC: 6 - 12 - 24 V AC: 24 V	DC: 12 - 24 V
Power consumption	DC: 1.3 W	DC: 3.5 W - 0.9 W
Voltage tolerance	-5 ÷ +10%	
Protection class	IP 51 - IP 65 (only versions with embedded cables)	
Insulation class	F (155 °C)	
Duty cycle	Continuous rating (ED 100%)	
Energized	Solenoid with response time = 8 ms	
De-energized	Mechanical spring with response time = 10 ms	
Electric connector	With 90° and in-line connectors: series CN - see chapter connectors on page 2.6	



### MATERIALS

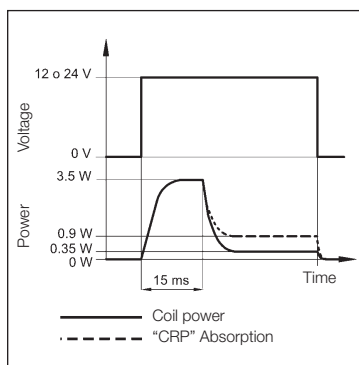
Core	Stainless steel
Body and manual override	PA and POM
Springs	Stainless steel
Seals	NBR and FKM rubber

### ORDER KEY



### POWER REDUCTION CIRCUIT (CRP)

The small size and the high power required to switch the solenoid valves with a nominal diameter of 1.1 mm, would not allow the coil to dissipate the heat it generates. The power reduction circuit ("CRP") prevents this effect. When energized, the coil produces an output of 3.5 W for the short period of 15 ms needed to switch the valve. Subsequently, the "CRP" acts by reducing the coil power to 0.35 W while maintaining the solenoid valve switched to the end of insertion. At full capacity the entire circuit, including LED indicators, absorbs 0.9 W.



### ORDER EXAMPLE

1 0 mm valve with not standardized interface, 3/2 N.C., with 90° connector, without LED, free exhaust, nominal diameter 0.7 mm, monostable push button and 24 V DC coil: **DMC4L/02400**

\* Only with: in-line connector + LED, or 90° connector + LED

\*\* Only with cable 300 mm length

### INTERFACE

Not standardized | ISO 15218 (only 3/2 N.C.)

### PNEUMATIC FUNCTION

2C 2/2 N.C. C 3/2 N.C.  
A 3/2 N.O.

### ELECTRICAL CONNECTION

- 90° connector + bipolar LED and diode
- Cable 300 mm length
- In-line connector + bipolar LED and diode
- 90° connector
- In-line connector

### OPTIONS

- Cable 100 mm length + Molex® male connector code 51 006-0200
- Cable 100 mm length + Tyco® MODU II connector code 280358-0
- Cable 100 mm length + Molex® female connector code 51 065-0200
- 88 Pair of solenoid valves with cables 100 mm length + Molex® single female connector code 51 065-0400

### EXHAUST

Channeled (standard) L Free (with not standardized interface 3/2 N.C.)

### NOMINAL DIAMETER

0.7 mm (standard) B 1.1 mm (only 12 or 24 V DC + CRP)

### MANUAL OVERRIDE

Push monostable (standard) 1 Manual bistable override  
2 Without manual override

### VOLTAGE

00600	6V DC	01200	12V DC
02400	24V DC	02450-60	24V AC
01200CRP	12V DC*	02400CRP	24V DC*

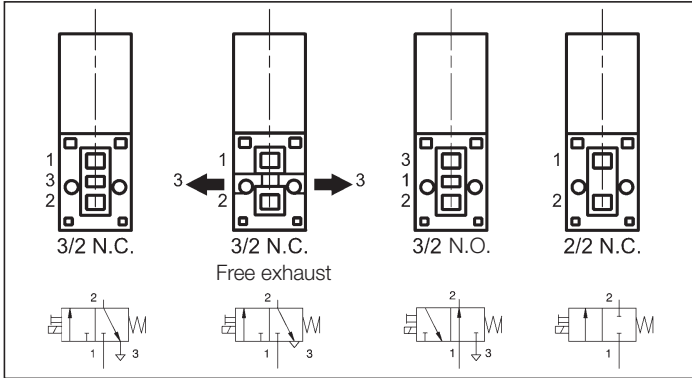
### COIL POSITION

Standard 180 Rotated 180°

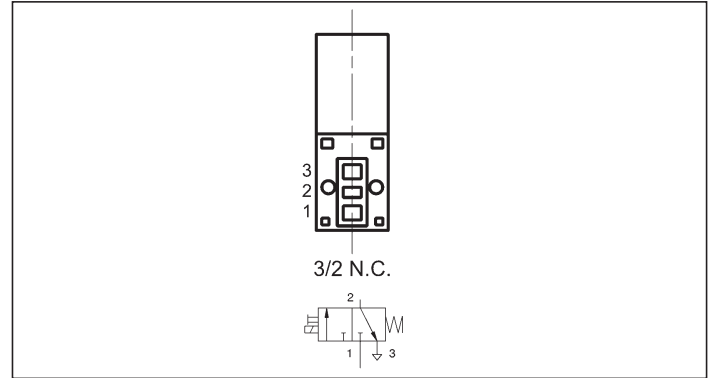
### ATEX\*\*

/EX Consistent with the ATEX directive II 3G c Ex nA IIC T5 Gc -5°C ≤ Ta ≤ 50°C  
II 3D c Ex tc IIIC T100°C IP65 Dc

PNEUMATIC FUNCTIONS WITH NOT STANDARDIZED INTERFACE

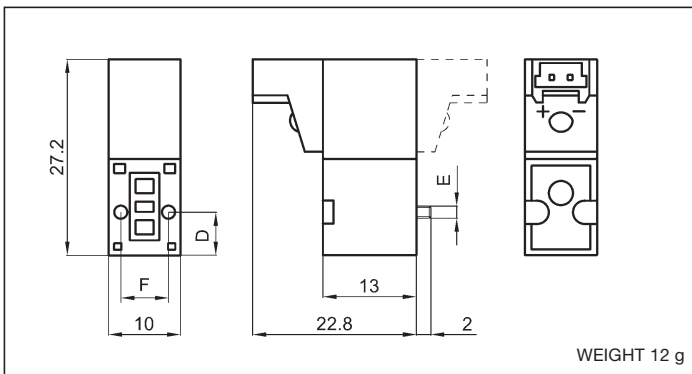


PNEUMATIC FUNCTION WITH INTERFACE TO ISO 15218

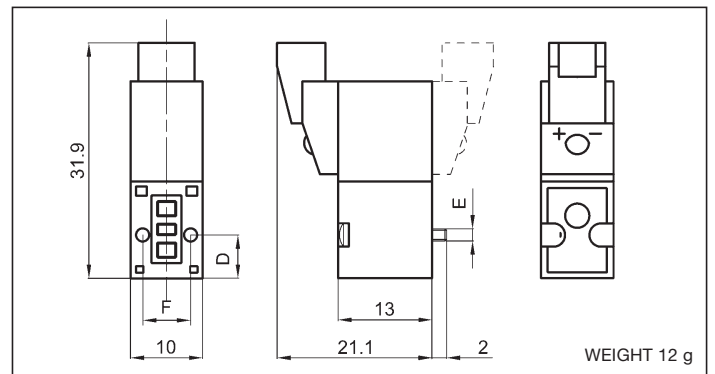


DIMENSIONS

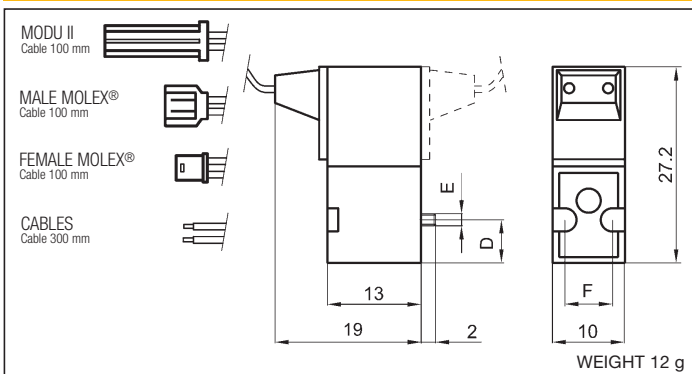
WITH 90° CONNECTOR



WITH IN-LINE CONNECTOR

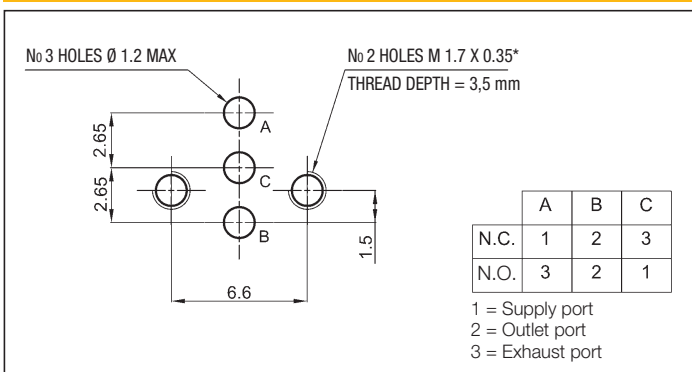


WITH CABLES



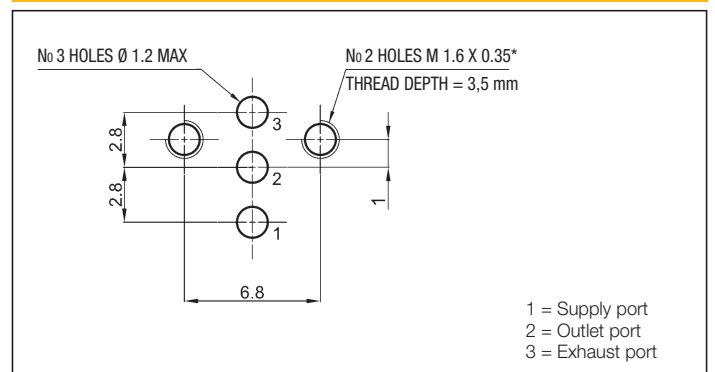
Dimensions	Non-standardized interface	Interface ISO 15218
D	6	6.2
E	M1.7 x 0.35	M1.6 x 0.35
F	6.6	6.8

DIMENSIONS OF THE NOT STANDARDIZED INTERFACE



\*Self-tapping screws for plastic available. See on page 2.7

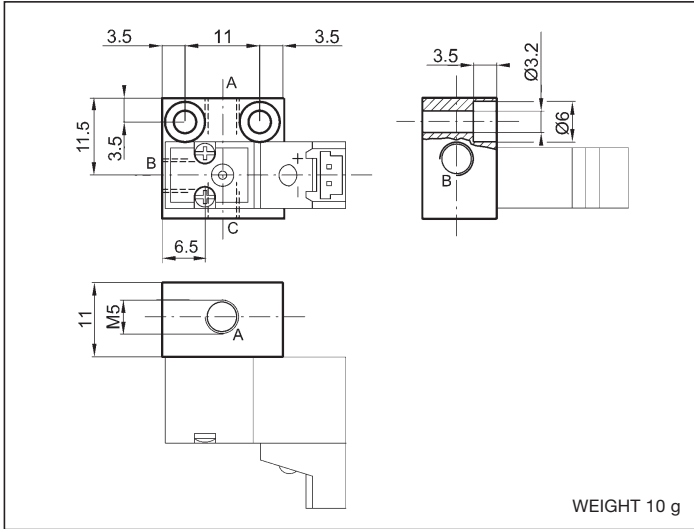
DIMENSIONS OF THE INTERFACE TO ISO 15218



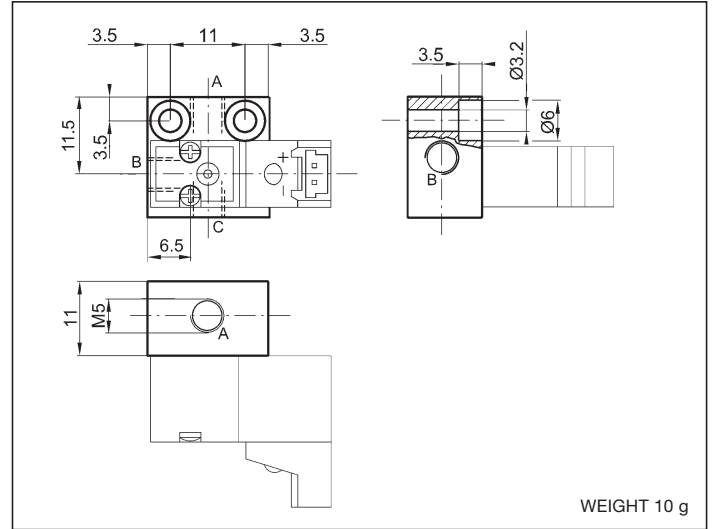
\*Self-tapping screws for plastic available. See on page 2.7

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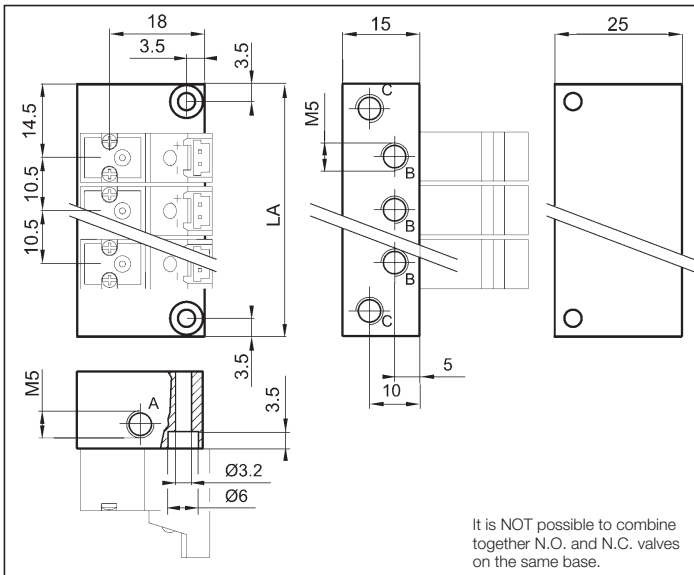
### SINGLE BASE WITH NOT STANDARDIZED INTERFACE - DMP5/1



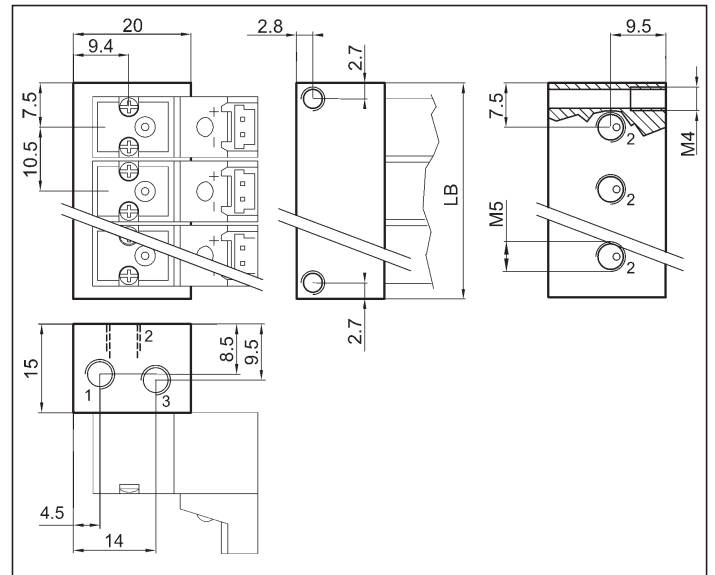
### SINGLE BASE WITH INTERFACE TO ISO 15218 - DMIP5/1



### MULTI-STATION BASE WITH NOT STANDARDIZED INTERFACE - DMPM5

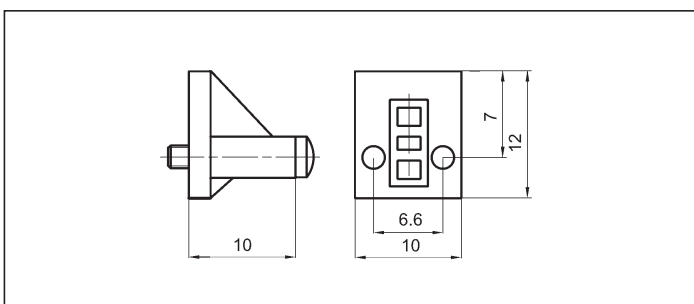


### MULTI-STATION BASE WITH INTERFACE TO ISO 15218 - DMIPM5



No of stations	2	3	4	5	6	7	8	9	10
LA	39.5	50	60.5	71	81.5	92	102.5	113	123.5
LB	25.5	36	46.5	57	67.5	78	88.5	99	109.5
Weight (g)	43	54	65	76	87	98	109	120	131
TYPE	DMPM5/2	DMPM5/3	DMPM5/4	DMPM5/5	DMPM5/6	DMPM5/7	DMPM5/8	DMPM5/9	DMPM5/10
Weight (g)	22	30	38	46	54	62	70	78	86
TYPE	DMIPM5/2	DMIPM5/3	DMIPM5/4	DMIPM5/5	DMIPM5/6	DMIPM5/7	DMIPM5/8	DMIPM5/9	DMIPM5/10

### CLOSING PLATE FOR NOT STANDARDIZED INTERFACE - KIT/PC/DM



### CLOSING PLATE FOR INTERFACE TO ISO 15218 - KIT/PC/DMI

