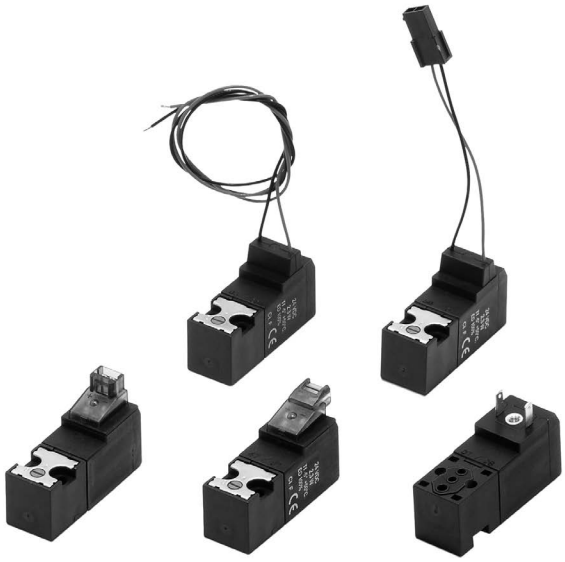
Direct acting solenoid valves 15 mm

series UM

DESCRIPTION

The direct acting solenoid valves series “UM” are produced in the 3/2 and 2/2 N.C. /N.O. pneumatic functions. They are used as power valves if mounted on single and multi-station base, or as control valves if mounted, in the 3/2 pneumatic function, on body valves series”SK”, “MEV”, “MEK”, or “UK”. These valves can be used with all the fluids that can match the constructive materials. The multi-station bases support both the 3/2 N.O. than the 3/2 N.C. pneumatic functions.
They can comply with ATEX directive, 3GD category, upon request.



TECHNICAL DATA

Nominal diameter	0,8 mm	1.1 mm (standard)	1.6 mm
Flow rate 1 -2 at 6 bar Δp=1	20 Nl/min	30 Nl/min	50 Nl/min
Flow rate 2-3 at 6 bar Δp=1	35 Nl/min (20 N.O.)	30 Nl/min	50 Nl/min
Operating pressure	0 ÷ 10 bar	0 ÷ 10 bar	0 ÷ 7 bar DC only N.C. 0 ÷ 5 bar AC (N.O. and N.C.)
Working temperature	-5 ÷ +50 °C		
Fluid	Filtered, unlubricated, continuous lubricated or dry compressed air		
Max. operating frequency	≤30 Hz		
Coil	Adjustable		
Voltages	DC: 24 V	DC: 12 - 24 V AC: 24 110 - 220 V	
Power consumption	DC: 1 W	DC: 2.5 W AC: 2.8 VA (inrush) - 2.5 VA (holding)	
Voltage tolerance	-5 ÷ +10%		
Protection class	IP 51 - IP 65 (versions: with embedded cables or standard + connector MEK192/N)		
Insulation class	F (155 °C)		
Duty cycle	Continuous rating (ED 100%)		
Energized	Solenoid with response time = 5 ms		
De-energized	Mechanical spring with response time = 10 ms		
Electric connectors	With faston: series MEK1 92/N - see chapter connectors on page 2.18 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

UM [ ] SV [ ] [ ] [ ] [ ] / [ ] [ ] [ ]

- Series
- Pneumatic function
- Electric connection
- Exhaust
- Nominal diameter
- Manual override
- Voltage
- Coil position
- ATEX

PNEUMATIC FUNCTION

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

ELECTRIC CONNECTION

With faston (standard)

OPTIONS

1	90° connector + bipolar LED and diode
2	Cable length 300 mm
3	Line connector + bipolar LED and diode
4	90° Connector
5	Line connector
7	Cable length 100 mm + Tyco® MODU II connector code 280358-0

EXHAUST

	Channeled (standard)	L	Free (only 3/2 N.C.)

NOMINAL DIAMETER

	1.1 mm (standard)	B	1.6 mm
D	N.C.= 0,8 mm (1->2) 1,1 mm (2->3) -- N.O.= 0,9 mm (1->2) 0,8 mm(2->3)		

MANUAL OVERRIDE

	Monostable push button (standard)	E	Without manual override and M3 insert
F	Without manual override	G	Without M3 insert
H	Bistable screw driver slot		

VOLTAGE

01200	12V DC	02400	24V DC
02450-60	24V AC	11050-60	110V AC
22050-60	220V AC		

COIL POSITION

	Standard	180	Rotated 180°

ATEX*

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

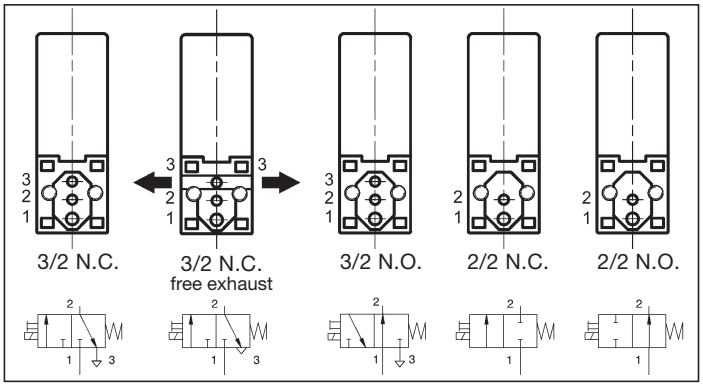
ORDER EXAMPLE

15 mm 3/2 N.C. valve with faston, channeled exhaust, nominal diameter 1.1 mm, monostable push button, 24 V DC with standard coil position: **UMCSV/02400**

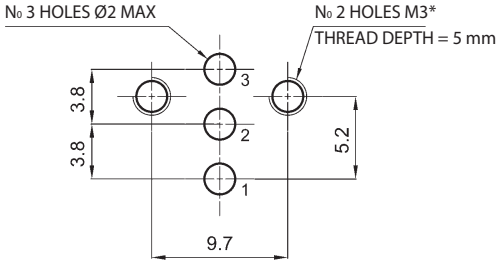
* Only with: cable 300 mm length and faston

2

PNEUMATIC FUNCTIONS



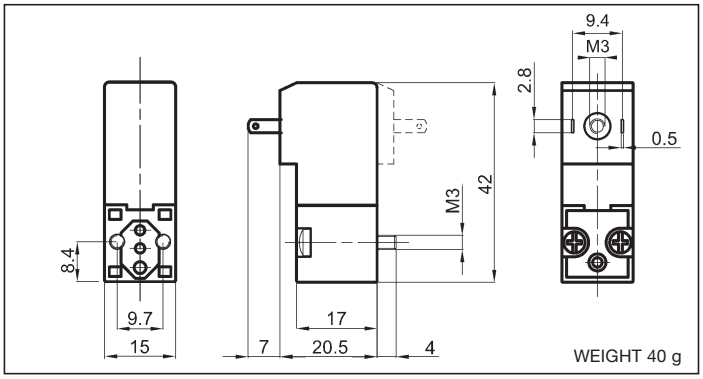
INTERFACE DIMENSIONS



* They can also be supplied self-tapping screws for plastic.
More information on page 2.7

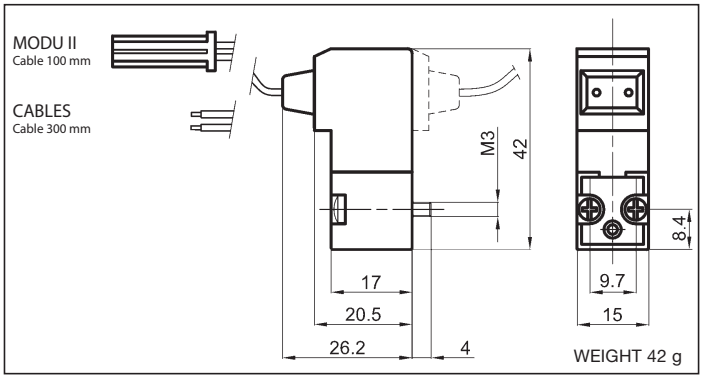
DIMENSIONS

WITH FASTON FOR MEK1 92/N CONNECTOR



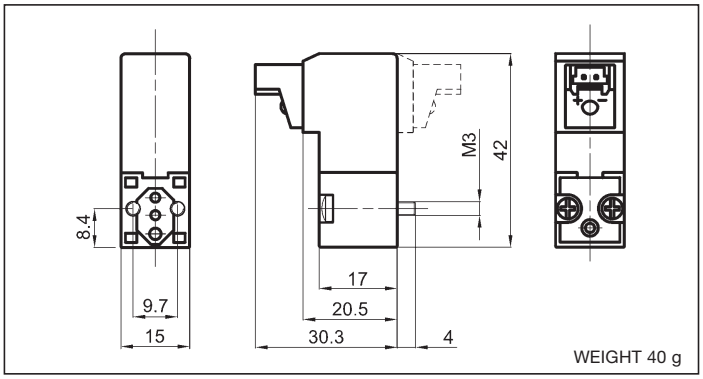
WEIGHT 40 g

WITH CABLES



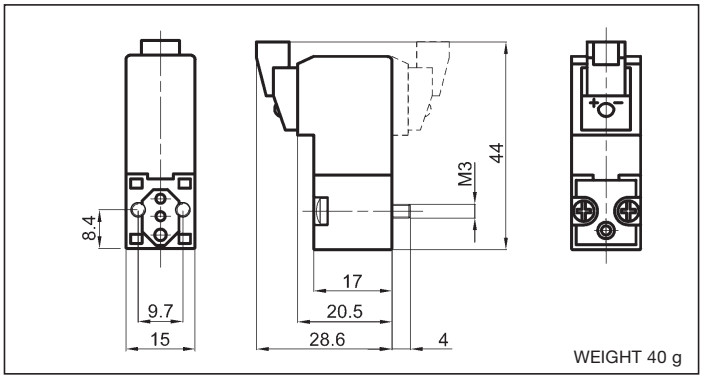
WEIGHT 42 g

WITH 90° CONNECTOR



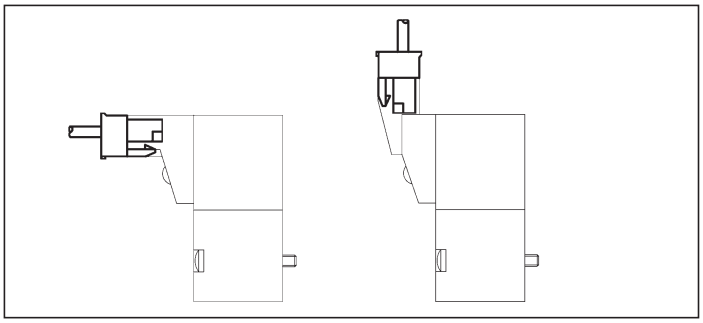
WEIGHT 40 g

WITH IN-LINE CONNECTOR



WEIGHT 40 g

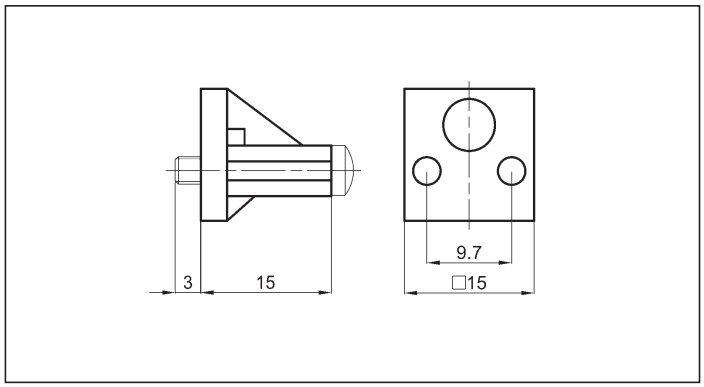
CONNECTOR FOR SOLENOID VALVES WITH 90° CONNECTION OR IN-LINE CONNECTION



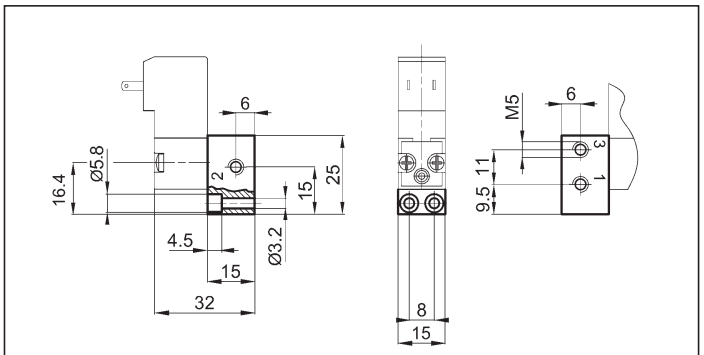


CABLE LENGTH	
300	Cable length 300 mm
500	Cable length 500 mm
1000	Cable length 1000 mm

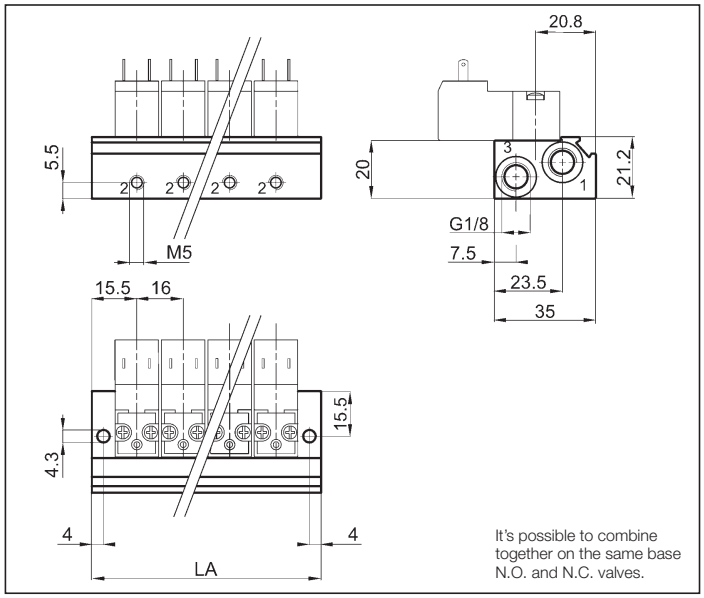
CLOSING PLATE - KIT/PC/UM



SINGLE BASE M5 - UMP5/1

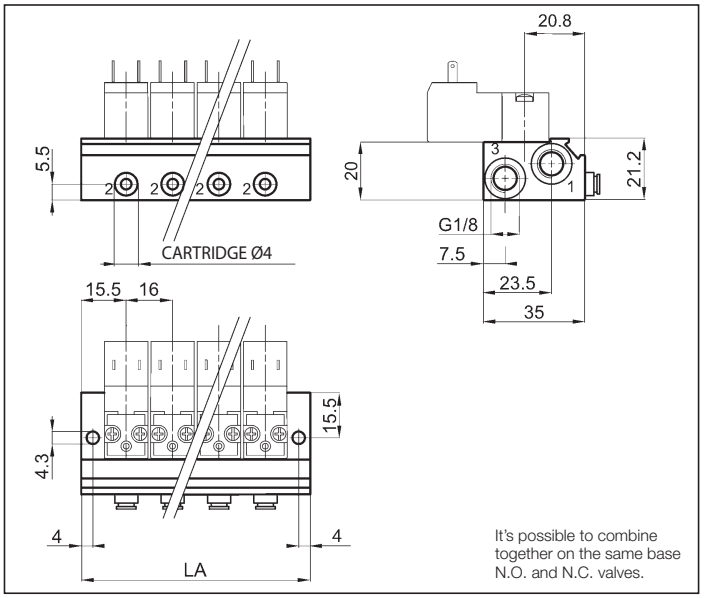


MULTI -STATION BASE M5 - UMPM5



It's possible to combine together on the same base N.O. and N.C. valves.

MULTI -STATION BASE WITH CARTRIDGE Ø4 mm UMP4-2



It's possible to combine together on the same base N.O. and N.C. valves.

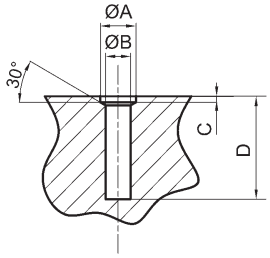
No. of stations	2	3	4	5	6	7	8	9	10
LA	47	63	79	95	111	127	143	159	175
Weight *(g)*	70	95	120	145	170	195	220	245	270
TYPE	**UMPM5/2**	**UMPM5/3**	**UMPM5/4**	**UMPM5/5**	**UMPM5/6**	**UMPM5/7**	**UMPM5/8**	**UMPM5/9**	**UMPM5/10**
Weight *(g)*	75	100	125	150	175	200	225	250	275
TYPE	**UMP4-2/2**	**UMP4-2/3**	**UMP4-2/4**	**UMP4-2/5**	**UMP4-2/6**	**UMP4-2/7**	**UMP4-2/8**	**UMP4-2/9**	**UMP4-2/10**

SELF-TAPPING SCREWS FOR PLASTIC

DESCRIPTION

It's possible to order the solenoid valves with self-tapping screws for plastic instead of the standard screws (metric). Drilling fixing dimensions are approximate and we always recommend to run some assembly test. To order valves with self-tapping screws, specify it when ordering by adding the suffix **"/P"** to the order key of the **DM** and **UM** series. Only for DM series: to order valves with thread forming screws, specify it when ordering by adding the suffix "/T" to the order key.

DRILLING SCHEME



Dimension	SERIES DM 10 mm	SERIES UM 15 mm
A	1,8	3,2
B	1,2	2,3
C	0,3	1,5
D	6	10