



Reference Standard

ATEX
2014/34/UE



Pressures

Max 8 bar (0.8 MPa)



Temperature

- 5 °C
+ 50 °C

TECHNICAL CHARACTERISTICS

Fluid temperature	Max +50°C
Fluid	10 µm filtered air, with or without lubrication
Switching system	obturator
Versions	3/2 NC, 3/2 NO
Control	electric
Return	mechanical spring
Connections	on sub-base
Nominal Ø (mm)	0,5÷0,6 mm
Nominal flow rate	9÷12 NI/min
Max frequency	2300 ÷ 3000 cycles/min

CE II 3GD c nA II T5-10°C ≤ Ta ≤ 45°C

CONSTRUCTION CHARACTERISTICS

Valve body	technopolymer (aluminium outer cover)
Seals	nitrile rubber
Internal parts	stainless steel, treated brass



180°x180° adjustable coil

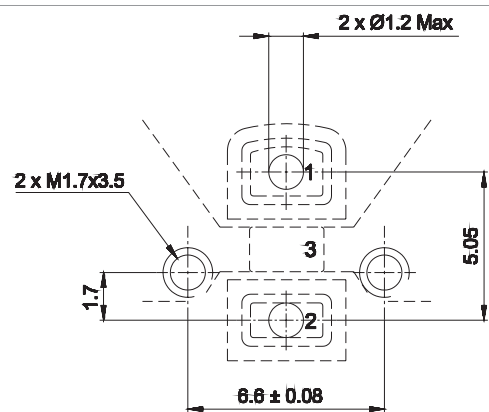
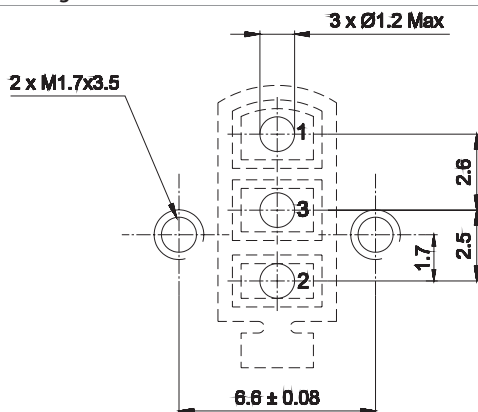
ELECTRIC CHARACTERISTICS

Coil	U04 series DE
Power consumption	1,2 W (1,35 W with illuminated LED) - 0,5 W (starting point 1,2 W)
Connector	Molex bipolar connector or flying leads
Voltage	12 V DC - 24 V DC
Manual control	with recessed push button, 1 position (other controls available on request)
Protection degree	IP65

Laying surface processing ISO 15218

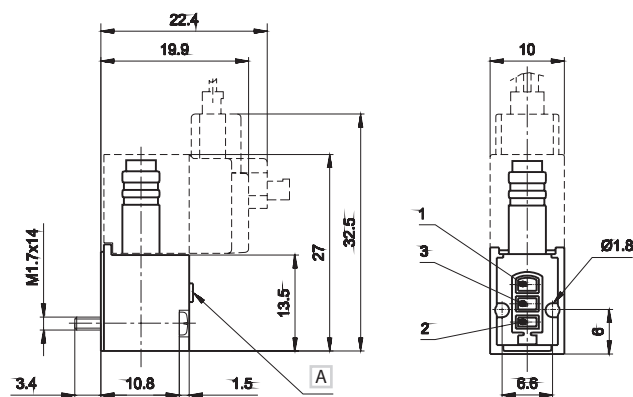
Conveyed discharge

Discharge in the air



NC
1 = Supply port
2 = Use
3 = Exhaust

NO
1 = Exhaust
2 = Use
3 = Supply port

Valves with conveyed discharge


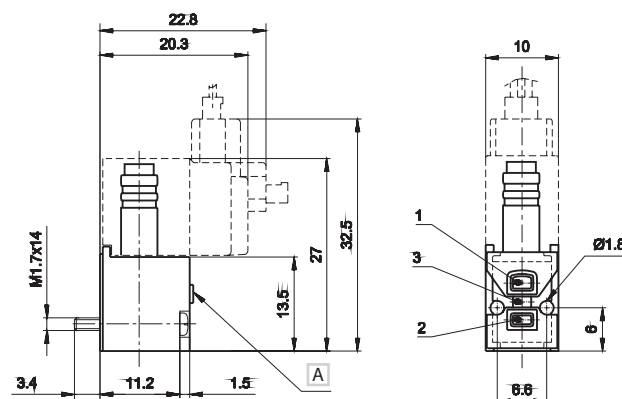
A - Manual control

1 = Power supply

2 = Use

3 = Drain

	Code	Function	Nominal Ø	Flow rate Nl/min.	Pressure bar	Response Time (ms)		Weight kg
						En.	De-en.	
	B-101N	3/2 NC	0,5	1 → 2 = 9 2 → 3 = 12	1,5÷8(a)	9	10	0,007
	B-121N	3/2 NO	0,5	3 → 2 = 9 2 → 1 = 10	0÷8	18	8	0,007

Valves with discharge in the air


A - Manual control

1 = Power supply

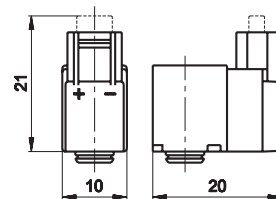
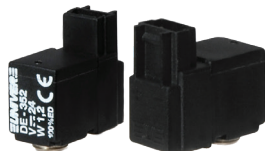
2 = Use

3 = Drain

	Code	Function	Nominal Ø	Flow rate Nl/min.	Pressure bar	Response Time (ms)		Weight kg
						En.	De-en.	
	B-102N	3/2 NC	0,6	1 → 2 = 12 2 → 3 = 15	1,5÷8(a)	9,5	9	0,007

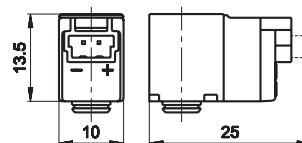
(a) = upon request: 0 bar operation

Nanovalves are supplied without coil and connector

U04 coil with integrated 90° upward connector


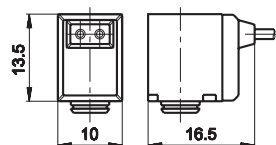
Code	Connettore	Durata ED(a) %	Assorbimento W		Tolleranza tensione %	Tensione nominale	Peso Kg
			Continuo	Spunto			
DE-352	D-500 D-530-... D-535-...	100	1,2	1,2	±10	24 V DC	0,013
DE-355		100	0,5	0,5	±10	24 V DC	0,013
DE-452		100	1,35	1,35	±10	24 V DC	0,013

On request 12 VDC

U04 coil with in-line connector


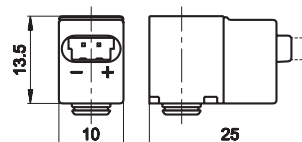
Code	Connector	Duty cycle ED (a) %	Power consumption W		Tension tolerance %	Rated voltage	Weight Kg
			Hold	Inrush			
DE-552	D-500 D-530-... D-535-...	100	1,2	1,2	±10	24 V DC	0,013
DE-555		100	0,5	0,5	±10	24 V DC	0,013
DE-652		100	1,35	1,35	±10	24 V DC	0,013

On request 12 VDC

U04 coil with loose cables (length 300 mm)


Code	Duty cycle ED (a) %	Power consumption W		Tension tolerance %	Rated voltage	Weight Kg
		Hold	Inrush			
DE-052L030	100	1,2	1,2	±10	24 V DC	0,013

On request 12 VDC

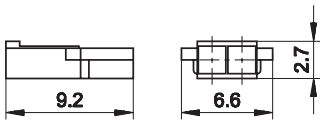
U04 coil with in-line connector with protecting cover for complete tightness


Code	Connector	Duty cycle ED (a) %	Power consumption W		Tension tolerance %	Rated voltage	Weight Kg
			Hold	Inrush			
DE-642I	D-500 D-530-... D-535-...	100	1,35	1,35	±10	12 V DC	0,013
DE-652I		100	1,35	1,35	±10	24 V DC	0,013
DE-655I		100	0,5	0,5	±10	24 V DC	0,013

(a) = under continuous service a maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated

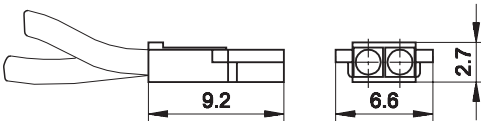
(b) = different wire lengths are available upon request

Miniature connector without wires



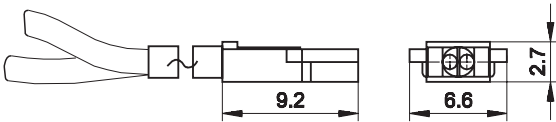
Code	Length (mm)	Coil
D-500	-	Series U04/U05

Miniature connector with loose cables



Code	Length (mm)	Coil
D-530-30	300	Series U04/U05
D-530-50	500	Series U04/U05
D-530-200	2000	Series U04/U05

Miniature connector with cable



Code	Length (mm)	Coil
D-535-30	300	Series U04/U05
D-535-50	500	Series U04/U05
D-535-200	2000	Series U04/U05

CAUTION! Do not invert the polarity when connecting the coil with LED.

Upon request version with LED

Under continuous service a maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated