

FEATURES

- Mini-low consumption valves for use in potentially explosive atmospheres according to ATEX-Directive 94/9/EC
 EC type examination certificate no.: **INERIS 10 ATEX 3016X**
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with European Standards EN 60079-0, EN 60079-15, EN 61241-0 and EN 61241-1
- Compact, monobloc solenoid pilot valve with M12 connector
- Integral LED indicator and electrical protection. LED indicator visible from 3 sides
- Universal version for vacuum operation (3/2 way)

GENERAL

Differential pressure

See «SPECIFICATIONS» [1 bar = 100 kPa]

Pneumatic base

ISO 15218 (CNOMO E06.36.120N, size 15)

Connection

Subbase

Response time

8 - 15 ms

fluids (*)	temperature range (TS)	seal materials (*)
air or inert gas filtered at 50 µm, lubricated or not	- 25°C to + 40°C (LP2) ⁽¹⁾	NBR (nitrile) FPM (fluoroelastomer)

⁽¹⁾ LP2: see "electrical characteristics" table

MATERIALS IN CONTACT WITH FLUID

(*) Ensure that the compatibility of the fluids in contact with the materials is verified

Body

PAA

Internal parts

POM, PET, stainless steel and brass

Seals

NBR (disc), FPM (others)

Pneumatic interface seal

TPE

OTHER MATERIALS

Coil

Thermoplastic PET

Enclosure with PVC cable

PP (polypropylene) glass-fibre reinforced

ELECTRICAL CHARACTERISTICS

Coil insulation class

F

SAFETY CODE

Ex II 3G Ex nA II T6..T4
 II 3D Ex tD A22 IP65 T 85°C..T 135°C

Connection

connector M12

Connector M12 (5 m cable length)

CNOMO E03.62.520.N

Electrical safety

IEC 335

Electrical enclosure protection

Moulded IP67 (EN 60529)

Standard voltages

DC (=): 24V

coils		power ratings ⁽²⁾	max. ambient temperature °C ⁽²⁾			type ⁽⁵⁾
power ranges	voltages	hot/cold =	surface temperature			
	=	(W)	T6 85°C	T5 100°C	T4 135°C	
LP2 ⁽³⁾	24	1,15 / 1,35	40	55	60	01

⁽²⁾ Nominal power ratings with LED indicator and electrical protection.

⁽³⁾ The minimum allowable ambient temperature is -25°C. Actual temperature range can be limited depending on valve operation limits.

⁽⁴⁾ Voltage: -15% / +20%

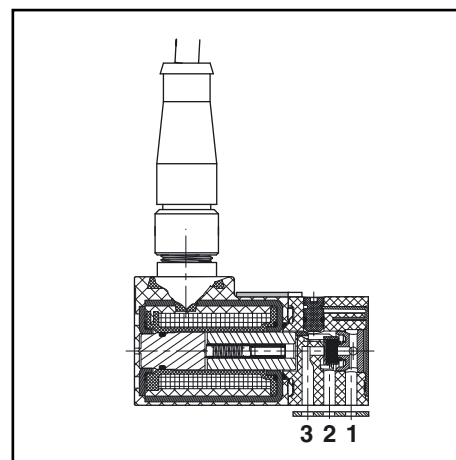
⁽⁵⁾ Refer to the dimensional drawings on the following page.

SPECIFICATIONS

orifice size	flow				operating pressure differential (bar)		power ranges	basic catalogue number			
	at 6 bar l/min (ANR)		coefficient Kv					manual operator			
					impulse			maintained			
(mm)					min.	max. (PS)		~	=	~	=
	1 → 2	2 → 3	1 → 2	2 → 3							
3/2 NC - normally closed (Without LED and protection)											
0,6	11	20	0,11	0,26	0	10	LP2	-	30212109NAD	-	30212110NAD
0,8	17	28	0,22	0,35	0	8	LP2	-	30212112NAD	-	30212113NAD
1.1	32	51	0,35	0.50	0	5	LP2	-	30212118NAD	-	30212119NAD

When ordering, please specify, in addition to the basic catalogue number, the type of current: voltage

Examples: 24V DC: **30212110NAD** 24V DC



OPTIONS AND ACCESSORIES

- Seals and disc made of FPM (fluoroelastomer)

INSTALLATION

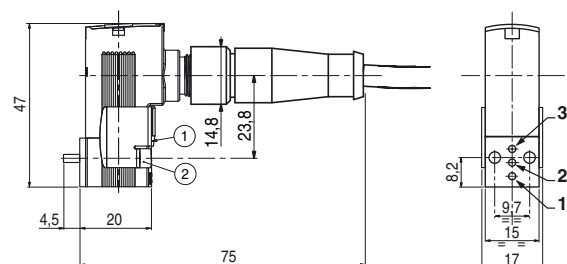
- The solenoid valves can be mounted in any position without affecting operation
- **Pre-wired connector, supplied and certified with the product (Connector M12, with 5 m cable length). For connection, only use the connector supplied with the product**
- Solenoid valve supplied with mounting screws and mounting pad seal(s)
- Installation/maintenance instructions are included with each valve

DIMENSIONS (mm), WEIGHT (kg)



TYPE 01

IEC 335 /
Straight M12 connector, 5 m cable length
IP67

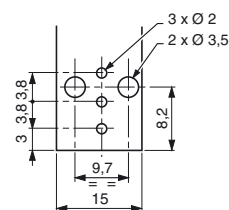


function	connection		
	1	2	3
NC	P	O	E

P: Pressure
E: Exhaust

O: Outlet

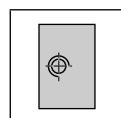
Subbase mounting surface: ISO 15218
(CNOMO E06.36.120N, size 15)



weight ⁽¹⁾
0,288

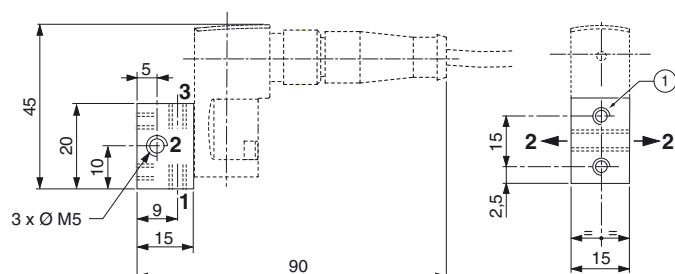
⁽¹⁾ with connector.

- ① Manual operator location
- ② 2 mounting screw M3 x 20



Single subbase

Aluminium or brass

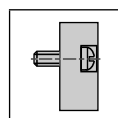


- ① Mounting: 2 holes M3, depth 4,5

Orifice (2) can be connected on the left or on the right of the subbase.

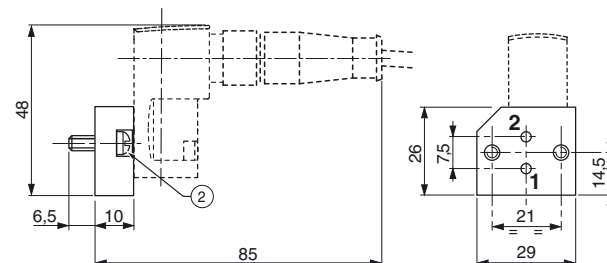
material	catalogue number	weight ⁽¹⁾
aluminium	88263002	0,011
brass	30300001	0,034

⁽¹⁾ subbase alone



Adapter CNOMO size 30

(only for NC version)
Aluminium



- ② Mounting: 2 screws M4 x 10 (supplied)

catalogue number	weight ⁽²⁾
88263001	0,018

⁽²⁾ adapter alone



THORNE &
DERRICK
INTERNATIONAL

Thorne & Derrick
+44 (0) 191 490 1547
www.heatingandprocess.com