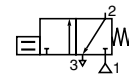




# PIEZOTRONIC VALVES

ISO 15218 (CNOMO, size 15) interface  
direct operated, pad mounting body  
M5-1/8-instant-fitting subbases

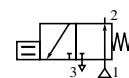
NC



3/2

Series

NO



630

(PISC/PIL prefix)

## FEATURES

- Miniature, ultra-low power valves, low heat dissipation
- Specially designed for applications where there is a requirement for low power consumption, small size and low weight combined with excellent flow/pressure characteristics
- Pad mounting mini piezo-valves available with single or joinable subbase M5, G1/8 or instant fitting
- No wearing parts: practically unlimited service life
- No inductive peaks when switching: no circuit protection necessary
- The solenoid valves satisfy all relevant EC directives

## GENERAL

Differential pressure 2 to 8 bar [1 bar = 100 kPa]

Response time (ms) AC 70 DC 50

fluids (*)	temperature range (TS)	seal material (*)
air or neutral gas, filtered at 25 µm, without condensate. Dew point: -10°C	0°C to +60°C	NBR (nitrile)

## CONSTRUCTION

Pneumatic base ISO 15218 (CNOMO E06.36.120N, size 15) or ISO 15218 (CNOMO E06.05.80, size 30) with adapter

## MATERIALS IN CONTACT WITH FLUID

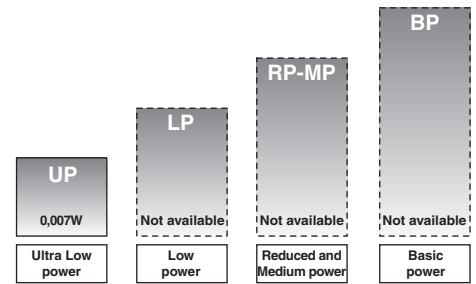
(\*) Ensure that the compatibility of the fluids in contact with the materials is verified

Body PPS

Internal parts Piezo ceramics

Seals NBR

Subbase Brass, PA or zinc diecast



POWER LEVELS - cold electrical holding values (Watt)

## SPECIFICATIONS

flow coefficient Kv		operating pressure differential (bar)		power ratings	(M)	piezotronic catalogue number	
(m³/h)	(l/min)	min.	max. (PS)	(W)		spade plug connection with size 15 connector	with 2 leads outlet
<b>NC - normally closed</b>							
0,006	0,100	2	8	0,007	X	63000063	63000013
0,006	0,100	2	8	0,007	▼	63000069	63000019
<b>NO - normally open</b>							
0,005	0,086	2	8	0,007	X	63000064	63000014
0,005	0,086	2	8	0,007	▼	63000070	63000020

(M) : Type of manual operator: X : without ▼ : push type

## ELECTRICAL CHARACTERISTICS OF CNOMO (PILOT) INTERFACE

<b>Connector</b>	Spade plug (cable Ø 6 - 7 mm)
<b>Connector specification</b>	DIN 43650, 9,4 mm, industry standard B or 2 leads outlet AWG 28, length 1 m
<b>Electrical safety</b>	IEC 335
<b>Standard voltages</b> <sup>(1)</sup> (U <sub>N</sub> )	AC/DC(-): 24 to 70 V (-10 %)
<b>Duty cycle</b>	100 % <sup>(2)</sup>

power ratings				operator ambient temperature range	safety code	electrical enclosure protection (EN 60529)	type <sup>(3)</sup>
inrush ~	holding ~		hot/cold =				
(VA)	(VA)	(W)	(W)	(°C) <sup>(4)</sup>			
<b>Ultra low power (UP)</b>							
-	-	-	0,007	0 to +60	EN 60730	moulded IP65	01/02

<sup>(1)</sup> The piezo-valve is designed for continuous duty within the maximum ambient temperature limits.

<sup>(2)</sup> Not to be used as a safety valve.

<sup>(3)</sup> Refer to the dimensional drawings on pages 3 and 4.

<sup>(4)</sup> **The minimum allowable ambient temperature is 0°C.**

## ELECTRICAL CONNECTION

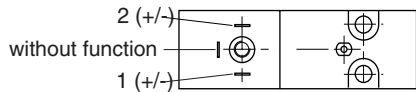
(Non polarized solenoid valves)

**Version with 2 leads**

Red wire : +

Black wire : -

**Version with spade plug connection**



## SUBBASES - ACCESSORIES

(C)	description	code
03	Single subbase, in brass, M5 lateral connection	<b>88263002</b>
04	Intermediate subbase, in aluminium, (adapter) for mounting of Piezotronic valve series 630 on CNOMO interface E06.05.80 (30x30)	<b>88263001</b>
05	Single subbase, in zinc diecast, G1/8 connection	<b>35300047</b> <sup>(1)</sup>
06	Joinable subbase, in zinc diecast, G1/8 connection	<b>35300048</b> <sup>(1)</sup>
07	Visual LED indicator (Caution: consumption 0,25 W and <b>max. voltage 24 V</b> )	<b>88130401</b>
-	Plug size 15 with 2 m cable	<b>88143567</b>
-	Plug size 15 (with built-in visual indicator (LED), with 2 m cable <b>max. 24 V =/~</b> )	<b>88143580</b>

<sup>(1)</sup> Subbases with a CNOMO E06.05.80 interface (30x30) require the adapter **88263001** for Piezotronic valve mounting

## INSTALLATION

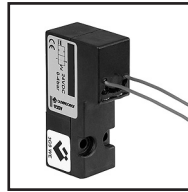
- The solenoid valves can be mounted in any position without affecting operation
- Pipe connections G 1/8 have standard thread according to ISO 228/1

### DIMENSIONS (mm), WEIGHT (kg)



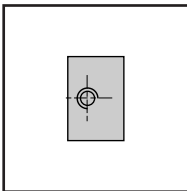
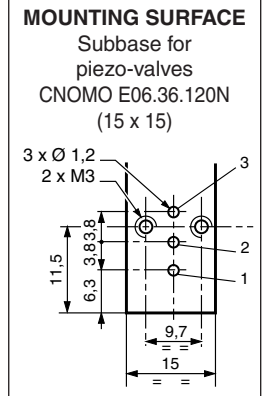
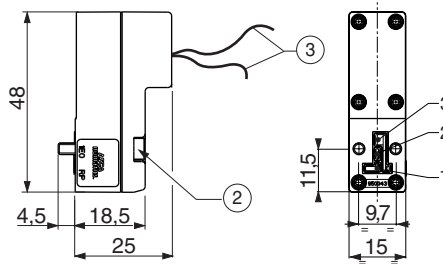
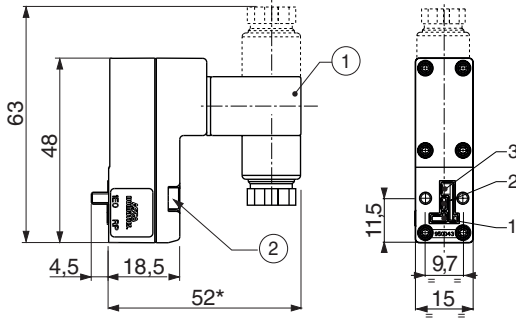
**TYPE 01**  
Piezo-valves series 630  
Ultra low power  
IP65  
Weight: 0,034 kg

63000063/069/064/070



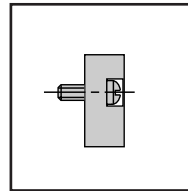
**TYPE 02**  
Piezo-valves series 630  
with 2 leads outlet  
Ultra low power  
IP65  
Weight: 0,028 kg

63000013/019/014/020



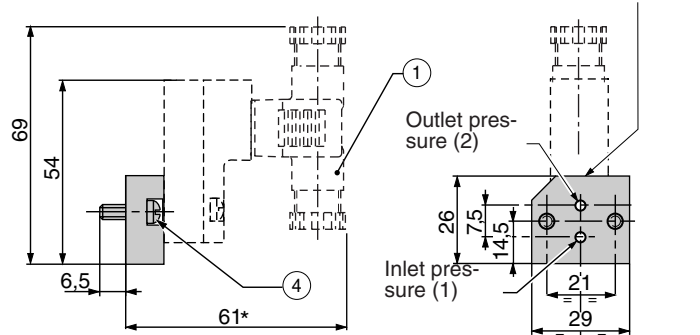
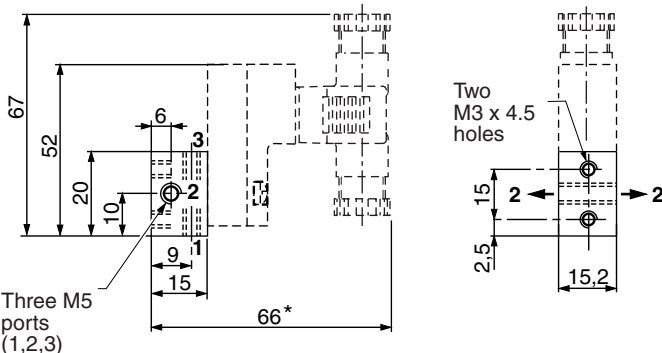
**TYPE 03**  
Piezo-valves series 630  
mounted on single M5 subbase  
IP65  
Total weight with connector: 0,066 kg

630 - - - - + 88263002



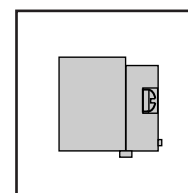
**TYPE 04**  
Piezo-valves series 630  
with CNOMO size 30 adapter  
IP65  
Total weight with connector: 0,053 kg

630 - - - - + 88263001



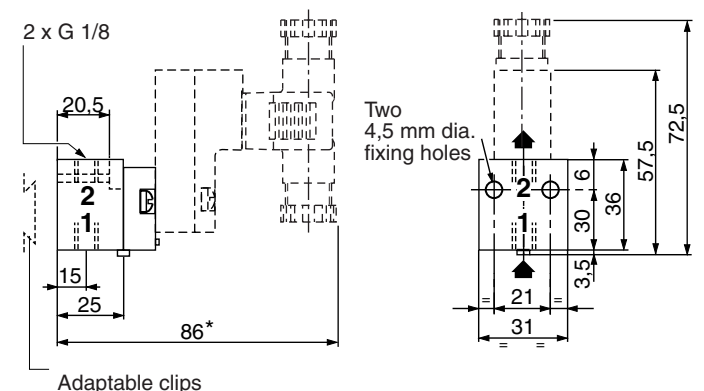
Single subbase connection:  
Outlet port (2) can be connected on the left or the right side of the subbase. Close the unused port with a Ø M5 plug (supplied).

- ① Plug connector size 15, rotatable by 90°, cable Ø 6-7 mm (Pg 7P)
- ② Secured by two screws CM3x20
- ③ 2 leads, length 1 m
- ④ Secured by two screws CM4x10
- (\*) +10 mm for connector removal

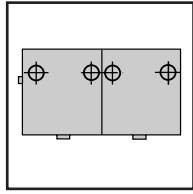


**TYPE 05**  
Piezo-valves series 630  
Ultra low power  
CNOMO size 30 adapter  
Mounted on single subbase 1/8  
IP65  
Total weight with connector: 0,121 kg

630 - - - - + 88263001 + 35300047



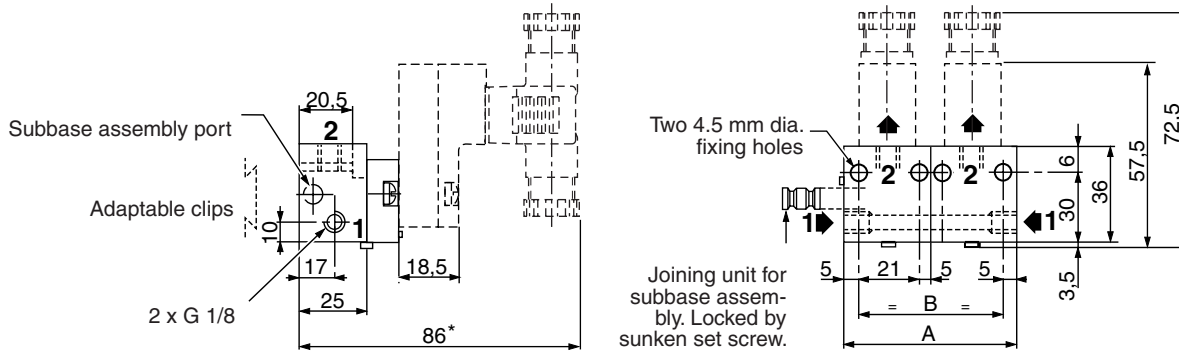
## DIMENSIONS (mm), WEIGHT (kg)



### TYPE 06

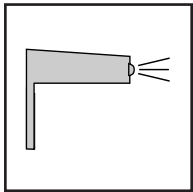
Piezo-valves series 630  
with CNOMO size 30 adapter  
Mounted on joinable subbase  
EN50020  
Total weight with connector: see table

630 - - - - + 88263001 + 35300048



Subbases supplied with seals, screws and joining units for gang mounting

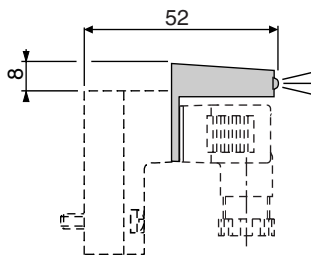
dimension	number of subbases						
	2	3	4	5	6	7	8
A	62	93	124	155	186	217	248
B	52	83	114	145	176	207	238
weight (kg)	0,363	0,608	0,853	1,098	1,343	1,588	1,833



### TYPE 07

Piezo-valves series 630  
Ultra low power  
Assembly with LED indicator  
IP65  
Weight: 0,039 kg

630 - - - - + 88263002



\* + 10 mm for connector removal