

MOTORIZED THREADED BUTTERFLY VALVES

TBV-CMAP SERIES

FEATURES

Features of the butterfly valve:

- Valve body: AVP
- Valve seat: AVP
- Seat disc: AVP
- Butterfly valve stem: brass
- Handwheel: aluminium
- "O" ring seal
- Max. operating pressure: 1.7 bar
- Max. fluid temperature: 100°C

Features of the electric control MOD. ECON-O:

- Voltage: 24/115/230+10%-15% 50/60Hz
- Proportional control signal on request: 0÷10V, 4÷20 mA
(only for ECON-O 24V)
- Power consumption: 4 VA
- 2 auxiliary micro switches: 5A/250Vac
- Electrical protection: IP54
- Connections: No. 2 cable entries PG13.5
- Angle of rotation: 90°
- 90° rotation time: 7 to 120 s
(average 60 s)
- Maximum operating temperature: -10°C to +60°C
- Rated torques available: 4Nm, 7Nm, 15Nm, 20Nm, (aver.20Nm)
- Housing: die cast aluminium
- Drive shaft: 9.5 mm
- Potentiometers available: 150 Ohm, 1000 Ohm, 2500 Ohm
(standard no. 1 1000 Ohm)
- Mass: 2.5 kg
- Operating position: any



using a dial handle or by some suitable electric control equipment (Model ECON-O). Disc position is indicated by a pointer on the valve crank arm.

Note: The limit switches of the Modulating Motors are supplied factory set. It is advisable to check these limits during plant commissioning and reset if necessary.

APPLICATIONS

- Manual gas/air valve.
- Non sealing.

DESCRIPTION

The TBV-CMAP is a particular modulating, butterfly valve. Air flow in low and high pressure lines is easily and effectively controlled by the butterfly valve. This may be done manually or automatically by

INSTALLATION

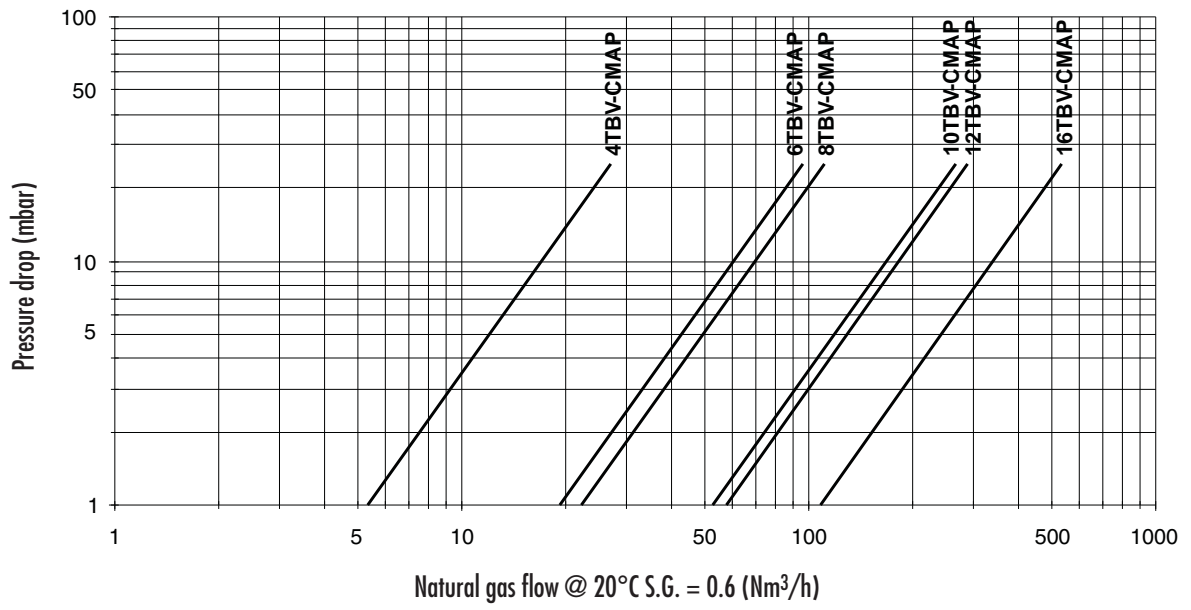
- Butterfly valve may be mounted in any plane (Note: Adhere to Mod. Motor manufacturers operating instructions on electrical versions).
- It is recommended that the butterfly valve is mounted down stream of any measuring device.
- If the valve is electrically controlled respect the maximum pressure limits.
- Flanged design makes installation easier.
- Robust design ensures extended operation in extreme conditions.



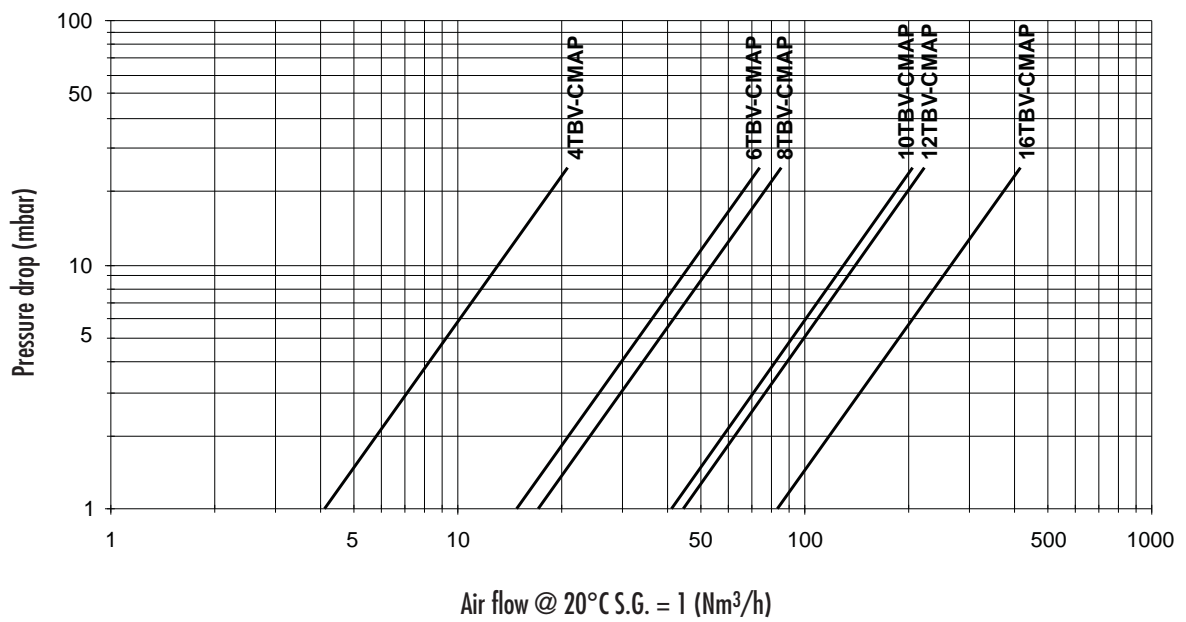
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CAPACITY TABLE

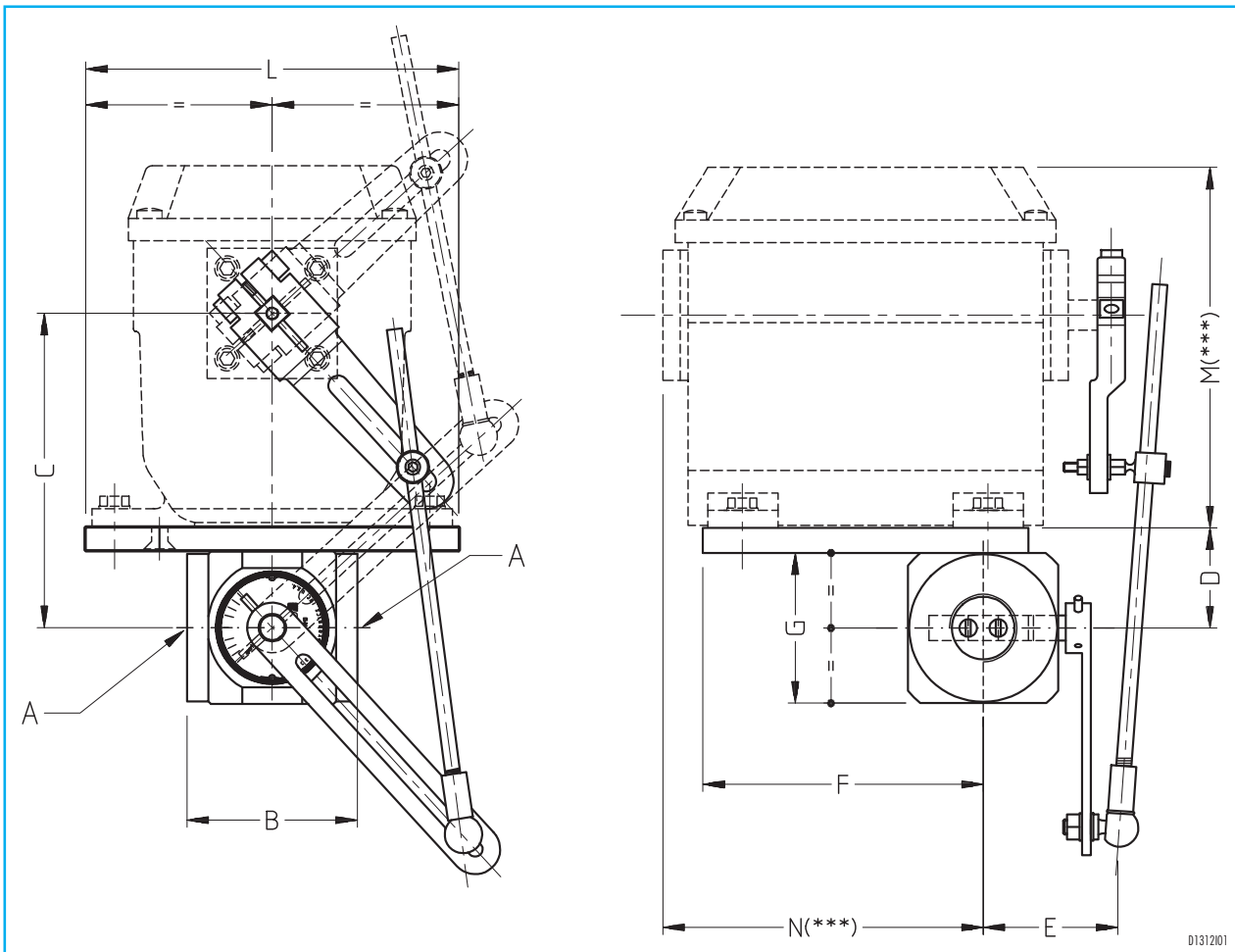


G1312/01



G1312/02

DIMENSIONS



D1312/01

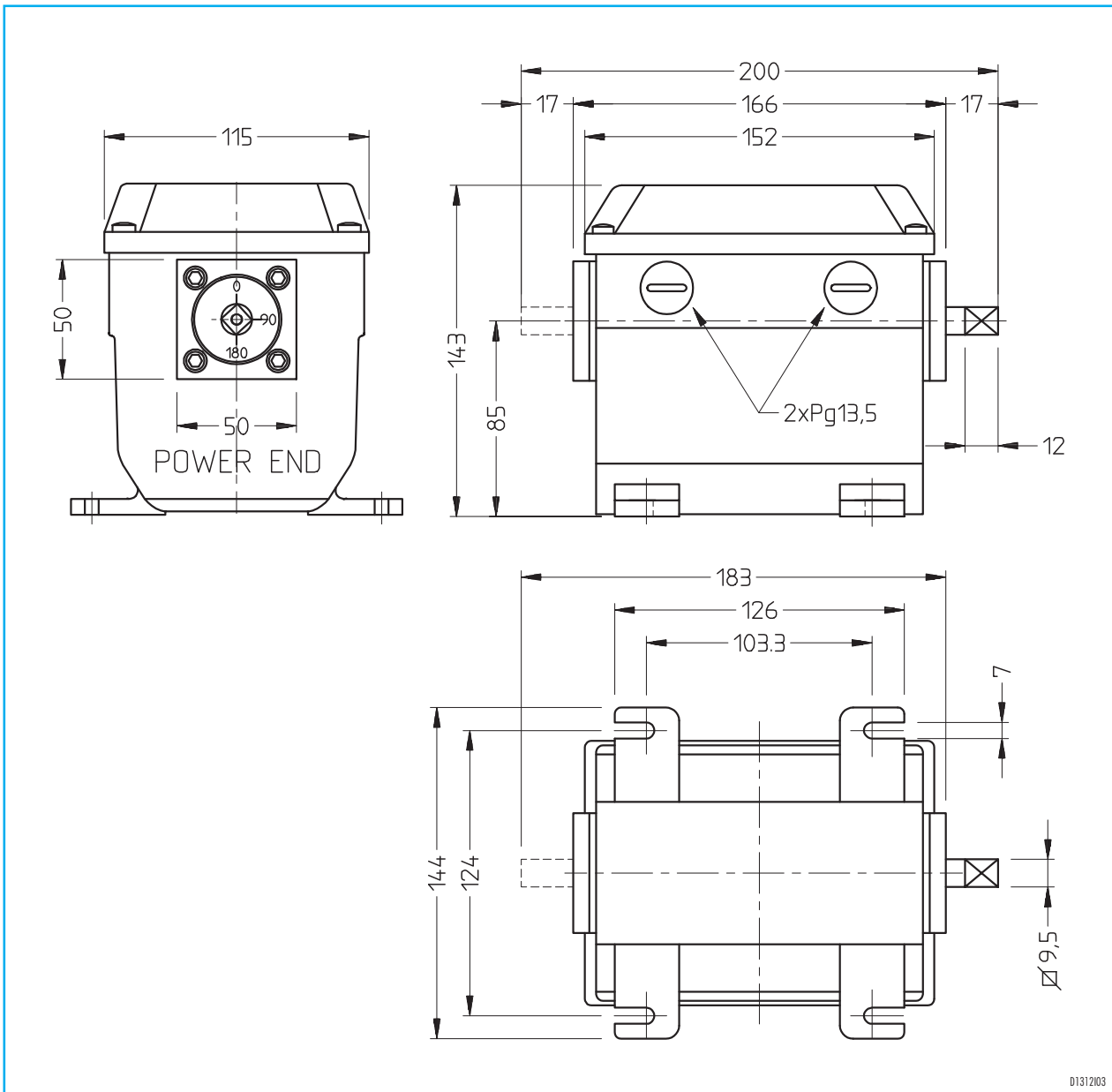
Catalog no.	\varnothing A	B mm	C* mm	D* mm	E* mm	F mm	G* mm	L mm	Mass kg
4 TBV-CMAP	G - 1/2"	68	125	40	55	112	60	150	1.80
6 TBV-CMAP	G - 3/4"	68	125	40	55	112	60	150	1.80
8 TBV-CMAP	G - 1"	68	125	40	55	112	60	150	1.80
10 TBV-CMAP	G - 1.1/4"	68	127.5	42.5	57.5	109.5	65	150	1.80
12 TBV-CMAP	G - 1.1/2"	68	127.5	42.5	57.5	109.5	65	150	2.30
16 TBV-CMAP	G - 2"	76	132.5	47.5	62.5	104.5	75	150	2.70

* Approximate dimensions.

M (***) = See dimensions electric control.

N (***) = See dimensions electric control.

DIMENSIONS (ECON)

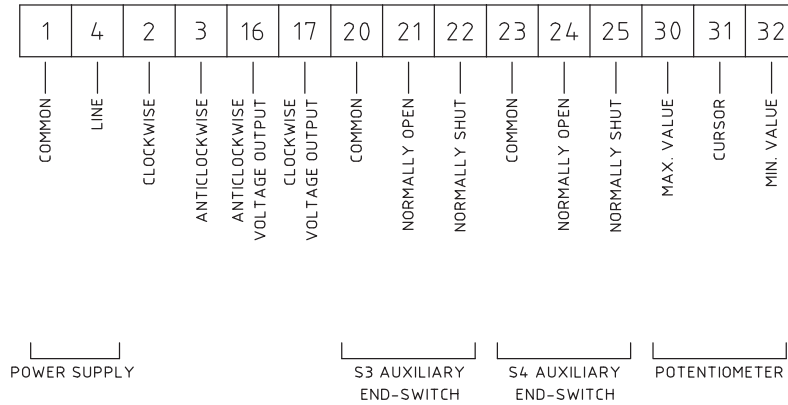


D1312103

ELECTRICAL CONNECTIONS

ECON-O AR MODEL

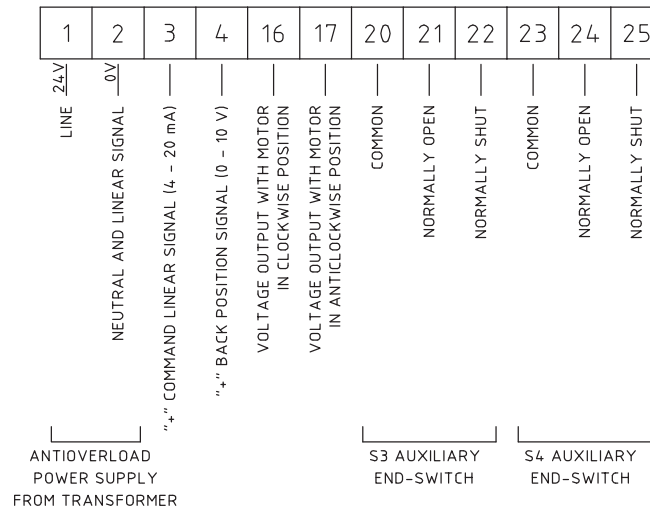
TERMINAL BOARD



D1312E02

ECON-O AR MODEL

4:20 mA TERMINAL BOARD



D1312E06



NOTE: Based on the company's policy aimed at a continuous improvement on product quality, ESA-PYRONICS reserves the right to bring changes to the technical characteristics of this device without previous notice. Our catalog updated to the latest version is available on our web site www.esapyronics.com and it is possible to download modified documents

WARNING: Operating a combustion system can be dangerous and cause harm to persons or damage to equipment. Every burner must be provided with safety devices that monitors the combustion. The installation, adjustment and maintenance operations should only be performed by trained and qualified personnel.