

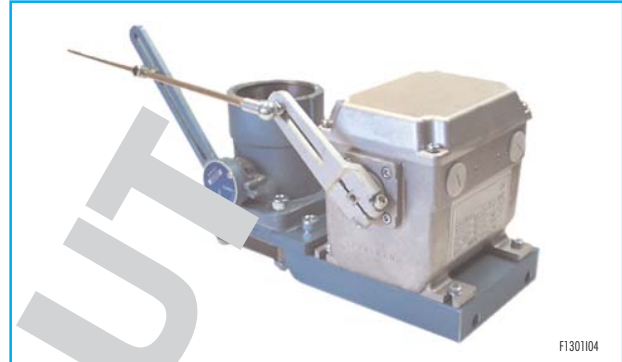
MANUAL AND MOTORIZED BUTTERFLY VALVES

BV AND BV-CMAP SERIES

FEATURES

Features of the butterfly valve:

- Valve body: cast iron G25
- Valve seat: cast iron G25
- Seat disc: carbon steel
- Butterfly valve stem: brass
- Max. operating pressure: 210 mbar
- Max. fluid temperature: 180°C
- Leakage: 2%



F130104

Features of the modulating motor MOD.ECON-O:

- Voltage: 24/115/230V +10%-15% 50/60Hz
- Proportional control signal on request: 0÷10 V, 4÷20 mA (only for ECON-O 24V)
- Power consumption: 4 W
- No. 2 auxiliary micro switches: 5 A / 250 Vac
- Electrical protection: IP54
- No. 2 cable entries: 13.5
- Angle of rotation: 0°
- 90° rotation time: 7 to 120 s (100 s)
- Operating temperature range: -10°C to +60°C
- Rated torques available: 4 Nm, 7 Nm, 20 Nm (20 Nm)
- Housing: aluminium
- Drive shaft: 9.5 mm
- Potentiometers available: 50 Ohm, 100 Ohm, 2500 Ohm (standard no. 1 1000 Ohm)
- Mass: 2.5 kg
- Operating position: any
- Operation: AUTO-MAN



F130102



F130103

DESCRIPTION

The BV-CMAP series is a range of modulating butterfly valves. Air flow in low pressure lines is easily and effectively controlled by the butterfly valve. This may be done manually or automatically by 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; two limit stops guarantee the calibration of the

minimum-maximum capacity and it is possible to measure the outlet pressure to the valve.

When the valve is coupled to an electric control, the calibration of the cams and of the auxiliary end-switches is done at the factory though it is advisable to control its efficiency.



Headquarters
Esa S.r.l.
Via E. Fermi 40 I-24035 Curno (BG) - Italy
Tel. +39.035.6227411 - Fax +39.035.6227499
esa@esacombustion.it - www.esapyronics.com

International Sales
Pyronics International S.A./N.V.
Zoning Ind., 4ème rue B-6040 Jumet - Belgium
Tel +32.71.256970 - Fax +32.71.256979
marketing@pyronics.be

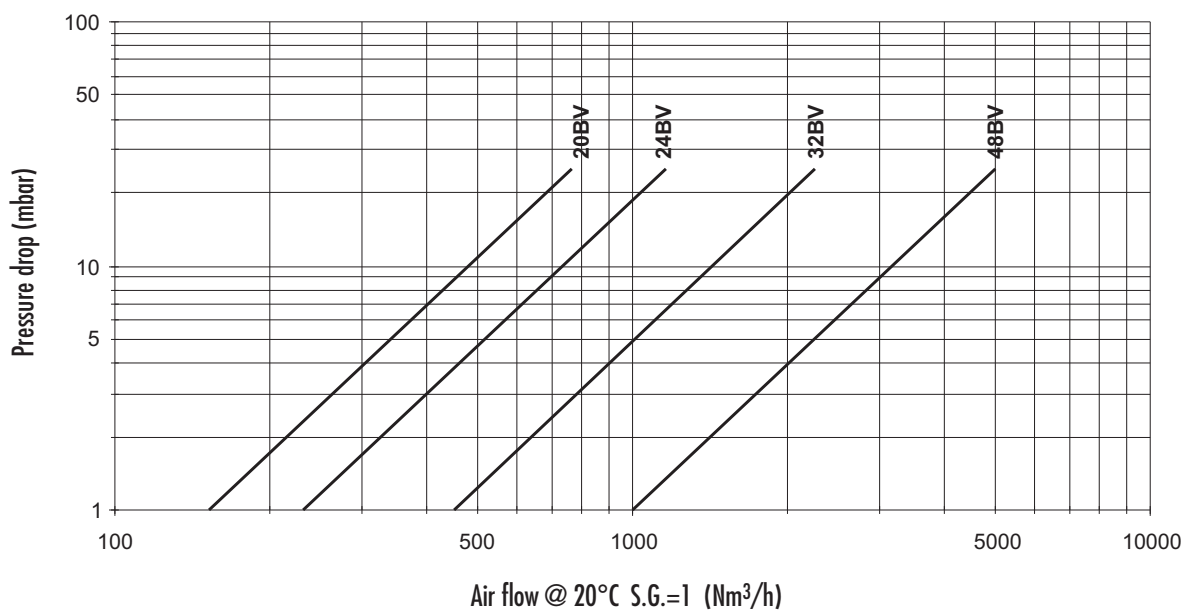
APPLICATIONS

- Air adjuster in industrial processes.
- Flow shutter.
- Available for 2.1/2" up to 6" conduits.

INSTALLATION

- Butterfly valves may be mounted to operate in any position.
- It is recommended to mount the butterfly valve downstream of any measuring device.
- If the valve is coupled to an electric control, respect the advisable pressure limits.
- Flanged body makes installation easier.
- Robust design ensures extended operation even in extreme conditions.

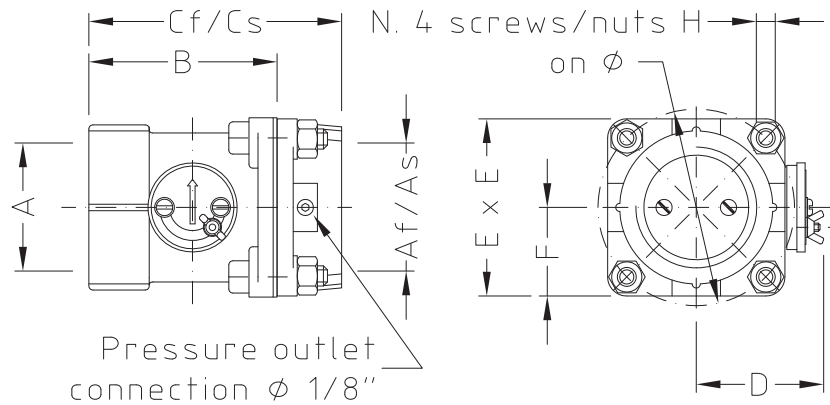
CAPACITY TABLE



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DIMENSIONS

20/24/32 BV-F



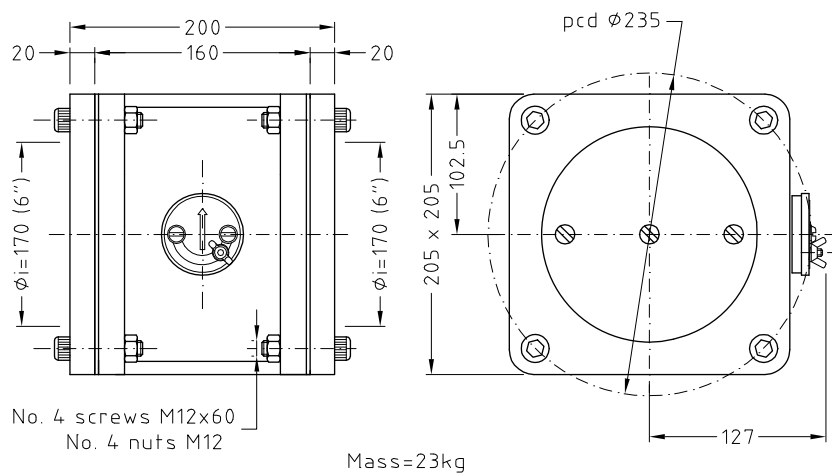
D1301E01

Cat. no.	ϕA	ϕA_f^{**}	ϕA_s^{**} mm	B mm	C_f^{**} mm	C_s^{**} mm	D mm	E mm	F mm	G mm	H mm	Mass kg
20BV-F	$\phi 2.1/2''$	$\phi 2.1/2''$	77	108	140	124	76	102	51	111	M10	3.5
24BV-F	$\phi 3''$	$\phi 3''$	90	116	154	134	95	111	55.5	123.8	M12	4
32BV-F	$\phi 4''$	$\phi 4''$	115.5	124	165	142	102	152	76	168	M12	8

A_f^{**} = BSP threaded connection - A_s^{**} = Welding connection - C_f^{**} = Dimensions with threaded flange - C_s^{**} = Dimensions with welding flange

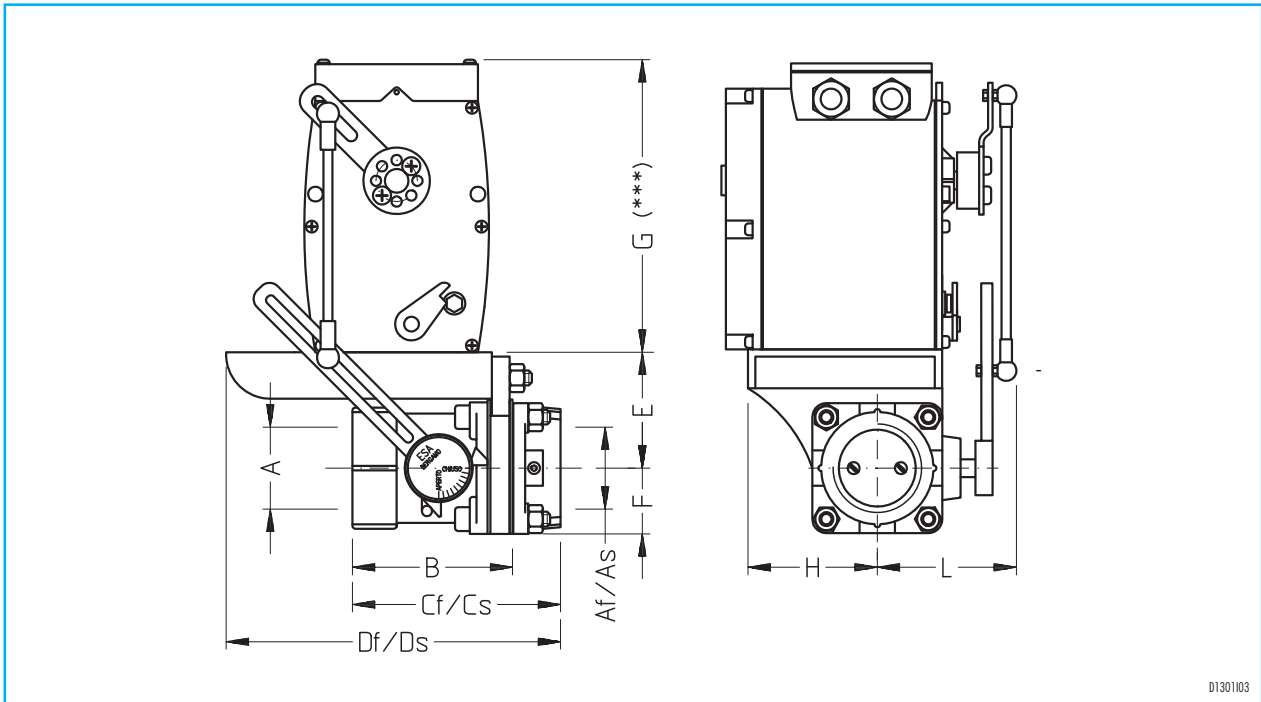
DIMENSIONS

48 BV-F



D1301E02

DIMENSIONS



D130103

Cat. no.	$\varnothing A$	$\varnothing Af^*$	$\varnothing As^*$ mm	B mm	Cf** mm	Cs** mm	Df** mm	Ds** mm	E mm	F mm	H mm	L mm	Mass kg
20BV-CMAP	G - 2.1/2"	G - 2.1/2"	77	123	155	139	228	212	86	51	91	95	8
24BV-CMAP	G - 3"	G - 3"	90	131	170	149	234	215	90	55.5	87	98	8.5
32BV-CMAP	G - 4"	G - 4"	115.5	139	181	157	237	215	111	76	66	114	12

Af* = BSP threaded connection

Cf** = Dimensions with threaded flange

Df** = Dimensions with threaded flange

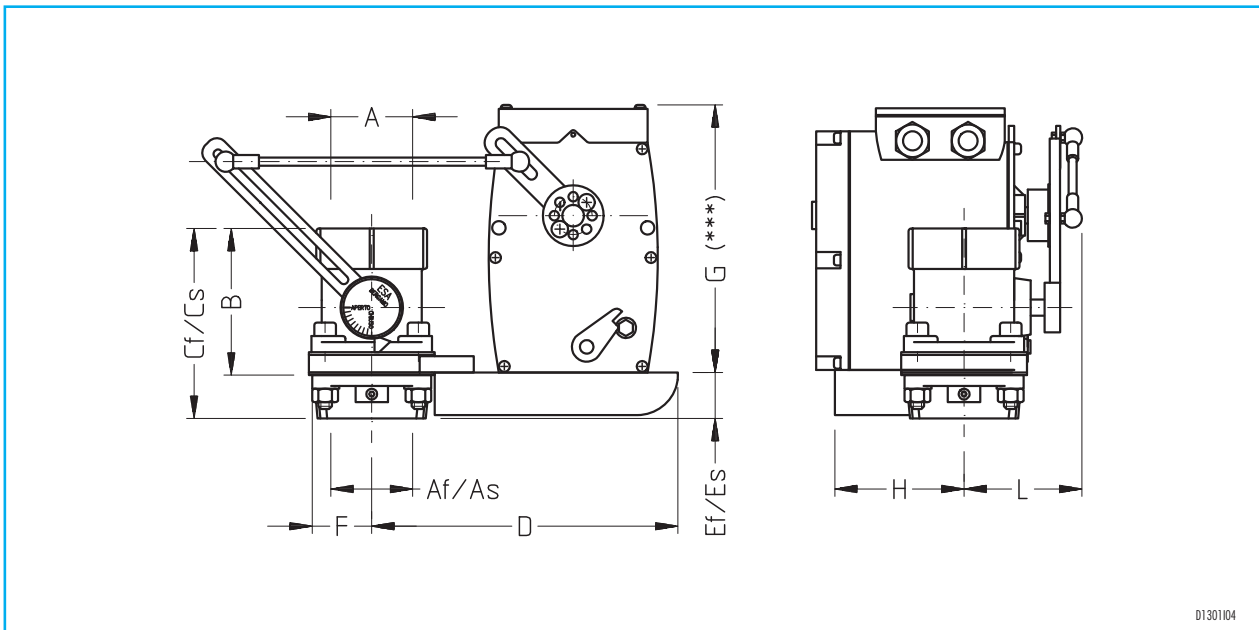
G*** = See electric control dimensions

As* = Welding connection

Cs** = Dimensions with welding flange

Ds** = Dimensions with welding flange

DIMENSIONS



D1301104

Cat. no.	$\varnothing A$	$\varnothing Af^*$	$\varnothing As^*$ mm	B mm	Cf** mm	Cs** mm	D mm	Ef** mm	Es** mm	F mm	H mm	Mass kg
20BV-CMAP	G - 2.1/2"	G - 2.1/2"	77	123	155	139	234	35	19	51	M10	8
24BV-CMAP	G - 3"	G - 3"	90	131	170	149	238	41	21	55.5	M12	8.5
32BV-CMAP	G - 4"	G - 4"	115.5	139	181	157	237	215	21	76	M12	12

Af* = BSP threaded connection

Cf** = Dimensions with threaded flange

Df** = Dimensions with threaded flange

Ef** = Dimensions with threaded flange

As* = Welding connection

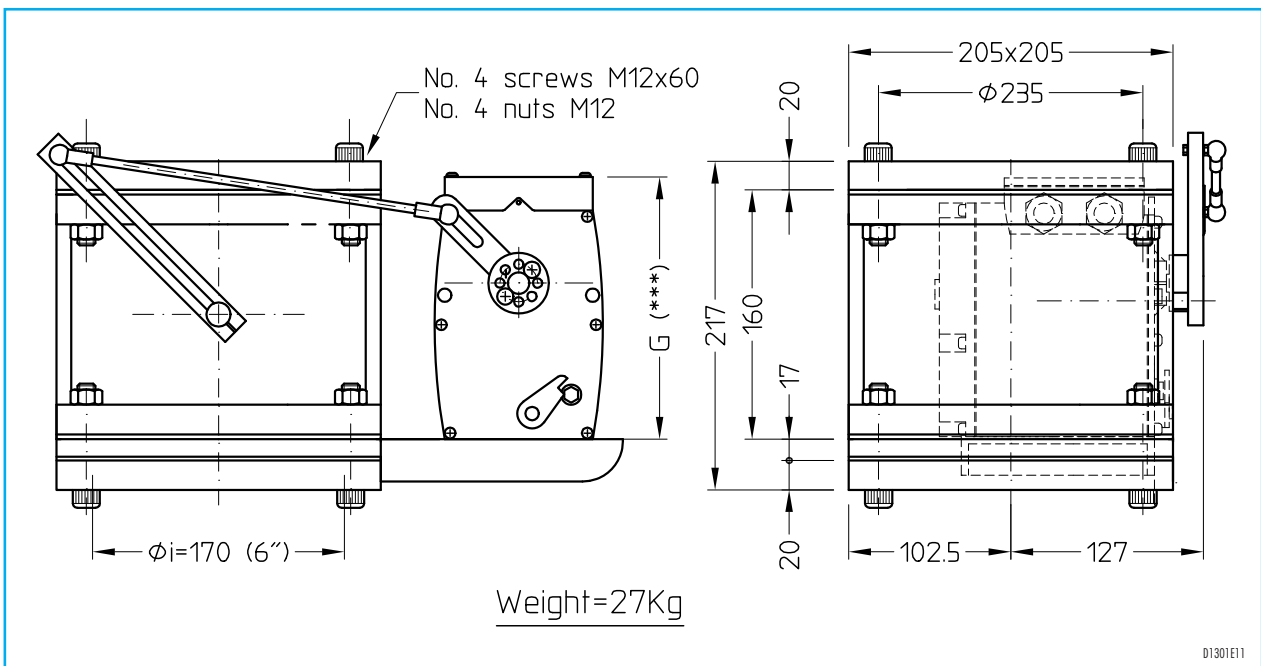
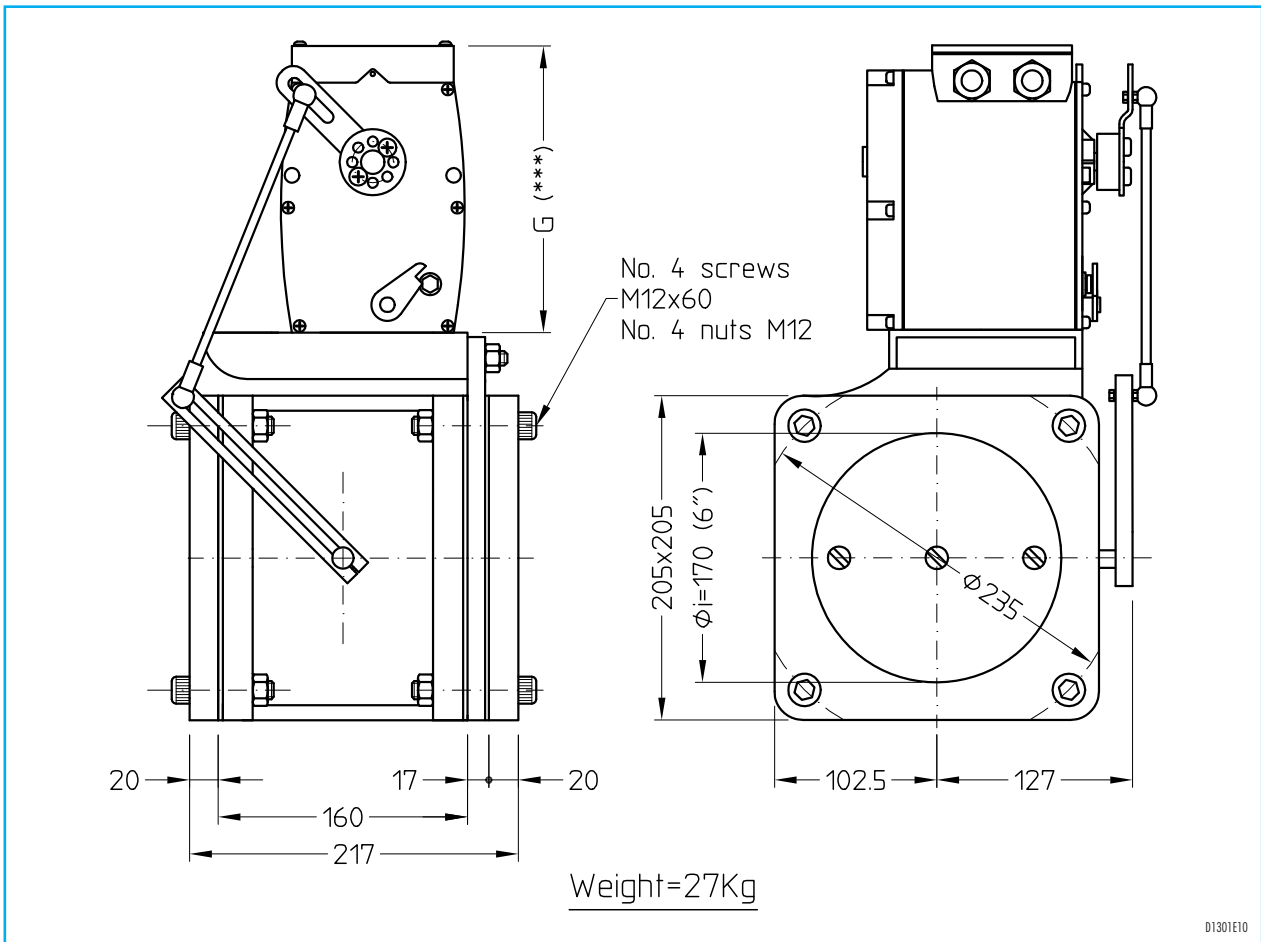
Cs** = Dimensions with welding flange

Ds** = Dimensions with welding flange

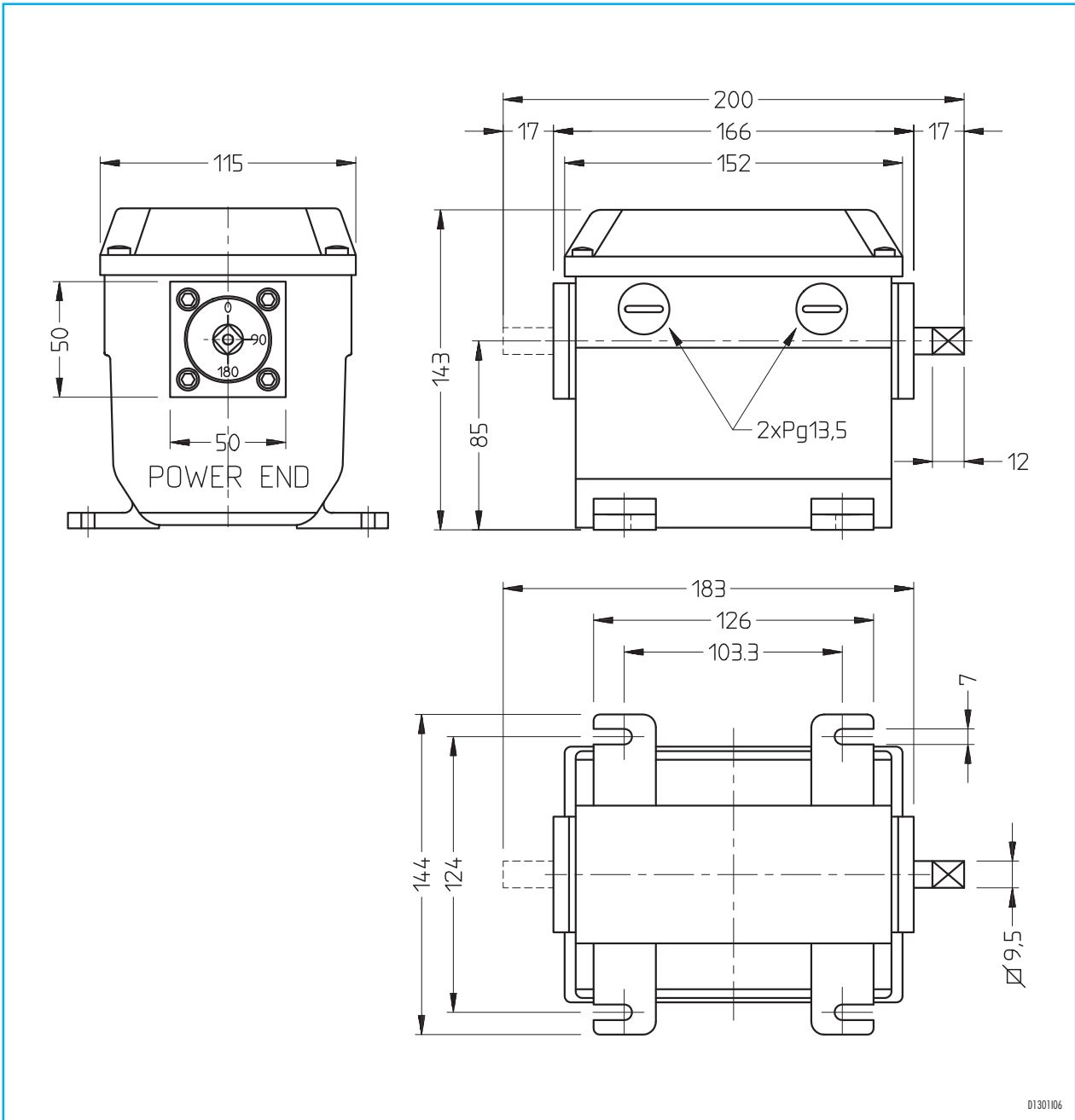
Es** = Dimensions with welding flange

G*** = See electric control dimensions

DIMENSIONS (48BV-CMAP)



DIMENSIONS (ECON-O)

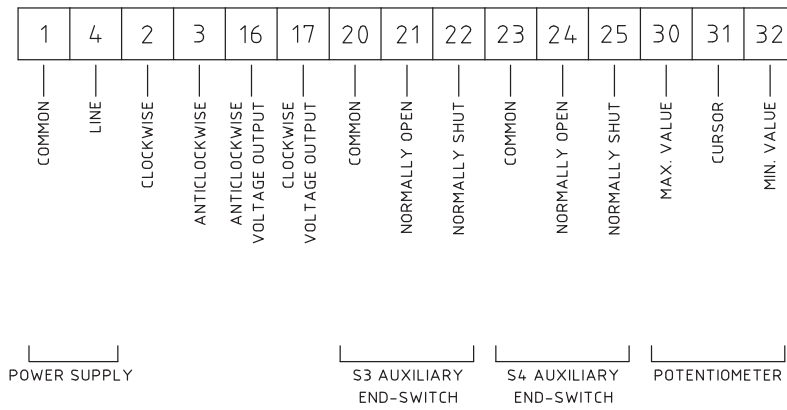


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ELECTRICAL CONNECTIONS

ECON-O AR MODEL

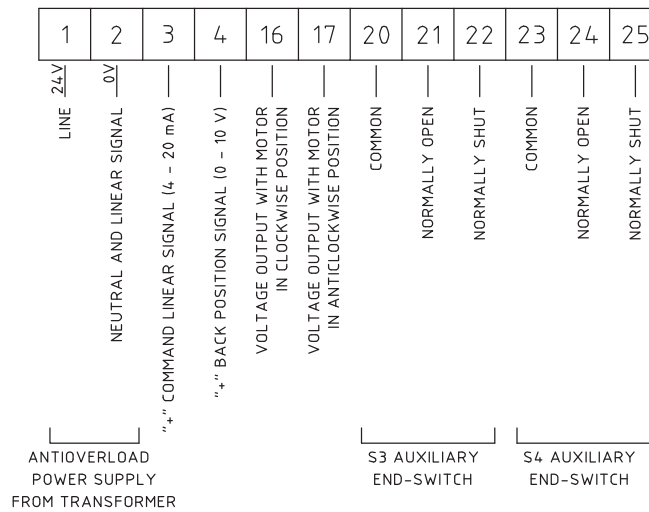
TERMINAL BOARD



D1301E05

ECON-O AR MODEL

4:20 mA TERMINAL BOARD



D1301E09