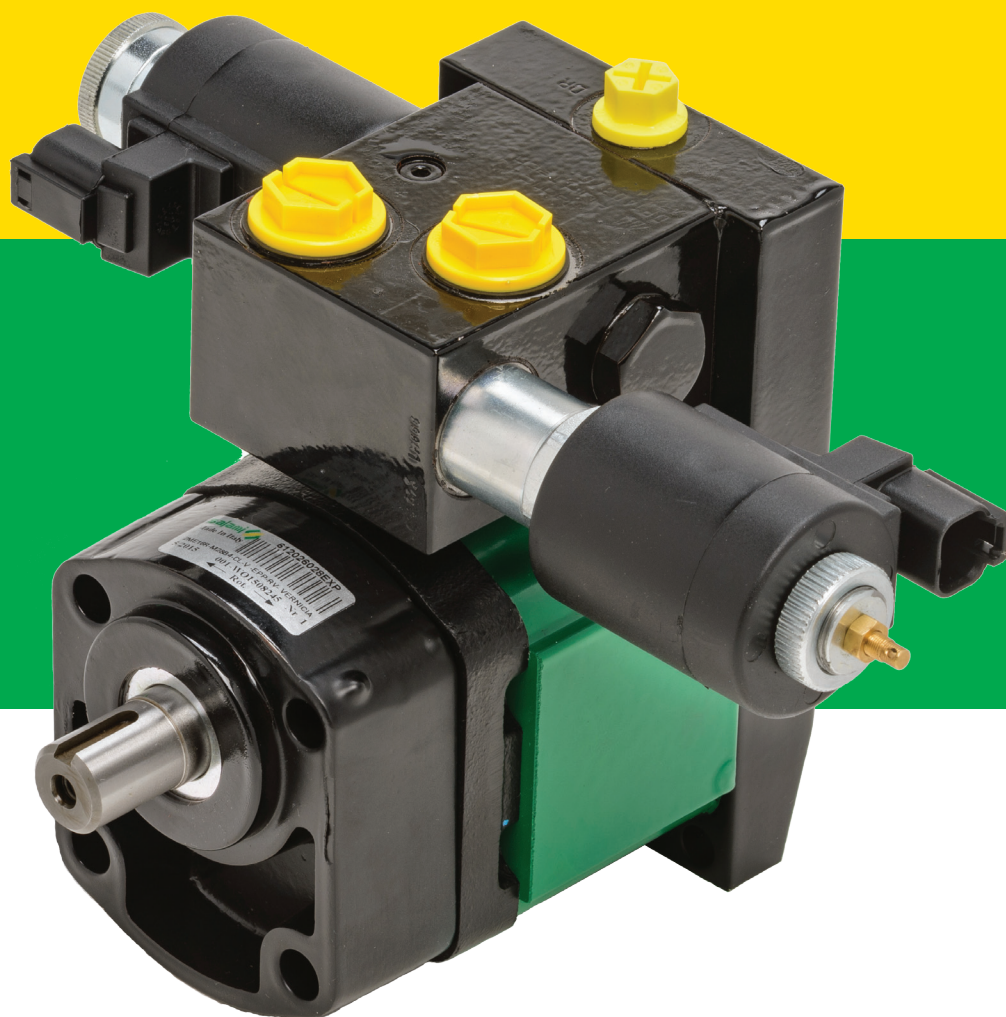

2ME

Aluminium gear motors

Technical Catalogue

E0.120.0219.02.00IM04



OIL SOLUTIONS

PO Box 38
Strathfieldsaye, VIC, 3551
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www.oilsolutions.com.au

"For All Your Hydraulic Needs"

salami  [®]



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GEAR MOTORS “E” - “B” - “C” SERIES

Aluminium Body

General Features

GEAR MOTORS

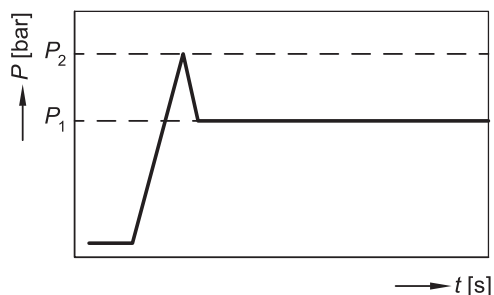
- Displacements from 2.8 cm³/rev to 73.4 cm³/rev (from 0.17 cu.in./rev to 4.48 cu.in./rev).
- Rated pressure up to 250 bar (3625psi).
- Speed up to 4500 rpm.
- Flanges, shafts and ports for ISO, DIN and SAE standards.
- Available in uni and bi-directional version for all the sizes, displacements and configurations.
- High volumetric efficiency thanks to an innovative design and an accurate control of machining tolerances.
- Axial compensation achieved by the use of floating bushes that allow high volumetric efficiency throughout the working pressure range.
- DU bearings to ensure high pressure capability.
- 12 teeth integral gear and shaft.
- Aluminium body.
- Cast iron flange and cover.
- Double shaft seals in all motor series. The one which faces the internal side is reinforced.
- Nitrile seals as standard and Viton seals in high temperature applications.
- Available with different valves and circuit configurations built-in rear cover.
- All motors are hydraulically tested after assembly to ensure the highest standard performance.

WORKING CONDITIONS

- Max pressure drain	20 bar (290 psi)
- Minimum operating fluid viscosity	12 mm ² /sec
- Permitted viscosity range	12 - 800 mm ² / sec
- Recommended viscosity range	20 - 80 mm ² / sec
- Permitted viscosity for starting	2000 mm ² / sec
- Fluid operating temperature range	-20 to 80 °C
- Fluid operating temperature range with FPM seals	-15 to 110°C
- Fluid operating temperature range with HNBR seals*	-30 to 110°C
- Hydraulic fluid	Mineral oil according to DIN 51524. Other hydraulic fluids on request.

*Available on request

DEFINITION OF PRESSURES



P_1 max. continuous pressure

P_2 starting pressure (depending on the application, this must be taken into consideration when setting the pressure of the hydraulic system's pressure-relief valve).

General Features

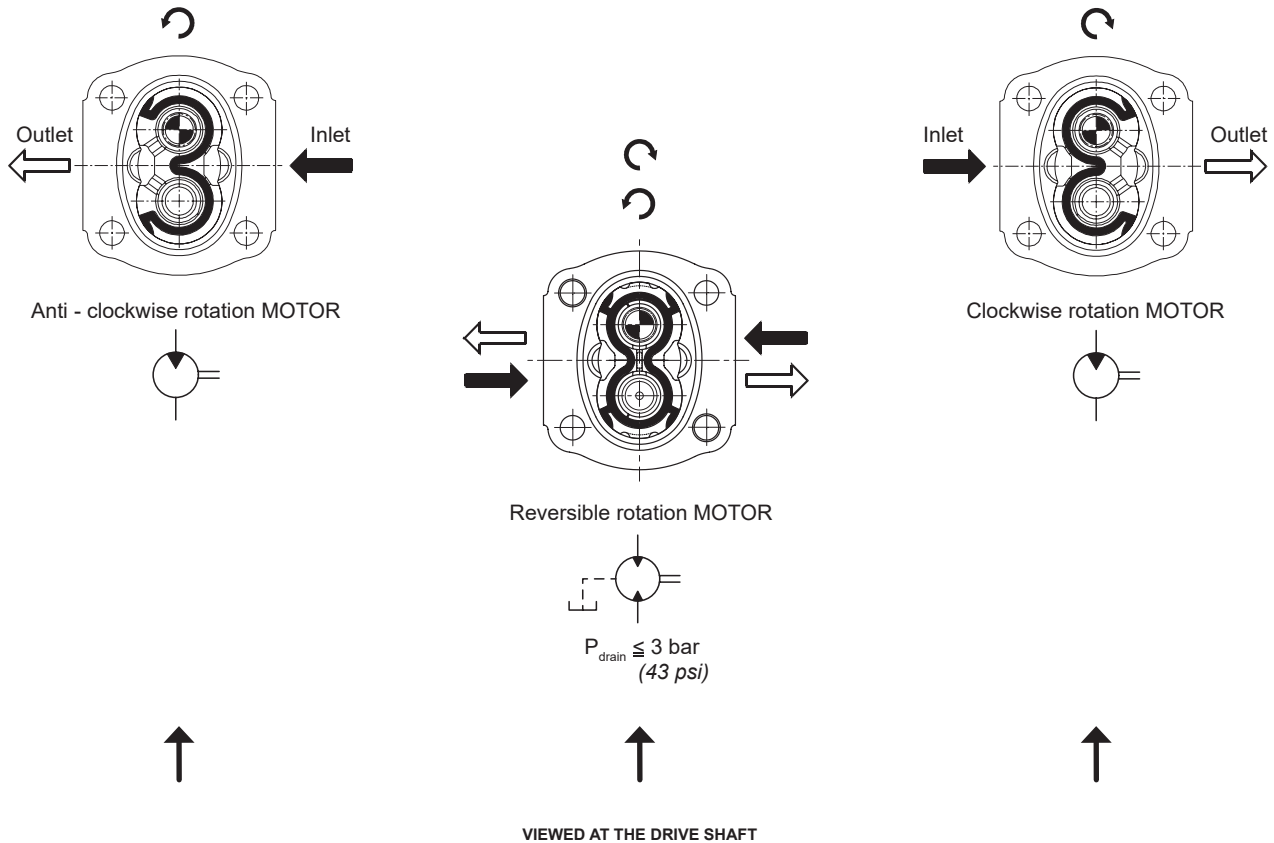
GEAR MOTORS “E” - “B” - “C” SERIES Aluminium Body

DRIVE SHAFTS

Radial and axial loads on the shafts must be avoided since they reduce the life of the unit.

In order to avoid misalignment during the assembly with the primary engine, a connection with “Oldham” coupling (or coupling having convex toothed hub) is recommended.

ROTATION



HYDRAULIC PIPE LINE

To calculate hydraulic pipe line size, the designer can use; as an approximate guide, the following fluid speed figures:

From 6 to 10 m/sec on pressure pipe line

From 19.7 to 32.8 ft/sec on pressure pipe line

The lowest fluid speed values in pipe lines is recommended when the operating temperature range is high and/or for continuous duty.

The highest value is recommended when the temperature difference is low and/or for intermittent duty.

In case of reversible motor allowance must be made to ensure the motor is not drained, through the case drain, when stationary.

GEAR MOTORS “E” - “B” - “C” SERIES

Aluminium Body

General Features

FILTRATION INDEX RECOMMENDED

Working pressure	>200 bar/2900 psi	<200 bar/2900 psi
Contamination class NAS 1638	9	10
Contamination class ISO 4406	19/18/15	20/19/16
Achieved with filter $\beta_x=75$	15 μm	25 μm

COMMON FORMULAS FOR MOTORS

Based on SI units

Input flow: $Q = \frac{V \cdot n}{1000 \cdot \eta_v}$ l/min

Output torque: $M = \frac{V \cdot \Delta p \cdot \eta_m}{20 \cdot \pi}$ Nm

Output power: $P = \frac{M \cdot n}{9550} = \frac{Q \cdot \Delta p \cdot \eta_t}{600}$ kW

Variables: SI units [US units]

Based on US units

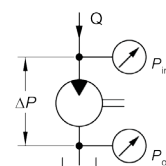
Input flow: $Q = \frac{V \cdot n}{231 \cdot \eta_v}$ [US gal/min]

Output torque: $M = \frac{V \cdot \Delta p \cdot \eta_m}{2 \cdot \pi}$ [lbf·in]

Output power: $P = \frac{M \cdot n}{63\,025} = \frac{Q \cdot \Delta p \cdot \eta_t}{1714}$ [hp]

LEGENDA

V	= Displacement	cm ³ /rev [in ³ /rev]
P_{out}	= Outlet pressure	bar [psi]
P_{in}	= Inlet pressure	bar [psi]
ΔP	= $P_{out} - P_{in}$ (system pressure)	bar [psi]
n	= Speed	min ⁻¹ (rpm)
η_v	= Volumetric efficiency	
η_m	= Mechanical efficiency	
η_t	= Overall efficiency ($\eta_v \cdot \eta_m$)	



IDENTIFICATION LABEL

Product short description

612014017

2/2021

Nr 1



Made in Italy

2ME11,3D-P28P1

001-WO1- - - - -

Rot. →

Unit Rotation

Build Order Number
(for Salami management)

Salami Manufacturing
Part Number

Manufacturing Date,
Month and Year

Batch Serial Number

EO.100.0821.02.001M03

General Features

GEAR MOTORS “E” - “B” - “C” SERIES Aluminium Body

TECHNICAL DATA

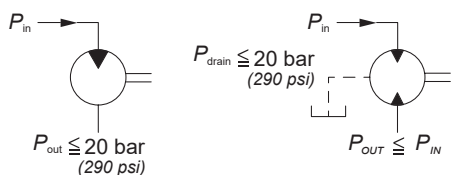
	Displacement		Max. continuous pressure P^1		Max. starting pressure P^2		Max. speed at P^2	Min. speed at P^1
GROUP 1.5 - E SERIES	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	rpm	
1.5ME - 2.8	2.8	0.17	250	3625	270	3915	4500	700
1.5ME - 3.5	3.5	0.21	250	3625	270	3915	4500	700
1.5ME - 4.1	4.1	0.25	250	3625	270	3915	4000	700
1.5ME - 5.2	5.2	0.32	230	3335	250	3625	4000	700
1.5ME - 6.2	6.2	0.38	230	3335	250	3625	3600	600
1.5ME - 7.6	7.6	0.46	200	2900	220	3190	3300	600
1.5ME - 9.3	9.3	0.57	180	2610	200	2900	3000	600
1.5ME - 11	11	0.67	170	2465	190	2755	3000	600

GROUP 2 - E SERIES	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	rpm	
2ME - 4.5	4.6	0.27	250	3625	280	4060	4000	600
2ME - 6.5	6.5	0.4	250	3625	280	4060	4000	600
2ME - 8.3	8.2	0.5	250	3625	280	4060	3600	500
2ME - 10.5*	10.6	0.65	250	3625	280	4060	3500	500
2ME - 11.3	11.5	0.68	250	3625	280	4060	3500	500
2ME - 12.5*	12.7	0.77	250	3625	280	4060	3400	500
2ME - 13.8	13.8	0.84	250	3625	280	4060	3400	500
2ME - 16	16.6	1.01	250	3625	280	4060	3200	450
2ME - 19	19.4	1.15	220	3190	240	3480	3200	450
2ME - 22.5	22.9	1.37	200	2900	220	3190	3000	450
2ME - 26	26.6	1.62	180	2610	200	2900	2850	450

*Available for quantity

GROUP 2.5 - B SERIES	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	rpm	
2.5MB - 16	16	0.97	250	3625	280	4060	3000	600
2.5MB - 19	19.3	1.17	250	3625	280	4060	3000	600
2.5MB - 22	22.2	1.35	250	3625	280	4060	3000	500
2.5MB - 25	25.2	1.53	250	3625	280	4060	3000	500
2.5MB - 28	27.6	1.68	250	3625	280	4060	3000	500
2.5MB - 32	32.4	1.97	230	3330	250	3625	3000	500
2.5MB - 38	38.1	2.32	200	2900	220	3190	2750	400
2.5MB - 44	44.2	2.69	170	2465	190	2755	2500	400

GROUP 3 - E SERIES	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	rpm	
3ME - 27	27	1.65	250	3625	280	4060	3000	600
3ME - 33	33.5	2.04	250	3625	280	4060	3000	600
3ME - 38	38.7	2.36	250	3625	280	4060	2750	500
3ME - 46	46.9	2.86	250	3625	270	3915	2750	500
3ME - 55	54.1	3.3	220	3190	240	3480	2500	400
3ME - 65	63.1	3.85	200	2900	220	3190	2500	400
3ME - 75	73.4	4.48	180	2610	200	2900	2500	400



The Motors are equipped with HPD shaft seal (20bar), on request is available also for motor with outrigger bearing. Max drain pressure is influenced by rotational speed of the unit.

E0.100.0821.02.00IM03

GEAR MOTORS “E” SERIES
*Aluminium Body***2ME**

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Final revised edition - February 2019

The data in this catalogue refers to the standard product.

The policy of Salami S.p.A. consists of a continuous improvement of its products. It reserves the right to change the specifications of the different products whenever necessary and without giving prior information.

If any doubts, please contact our sales department.



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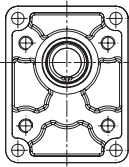
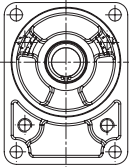
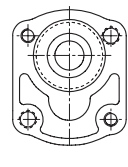
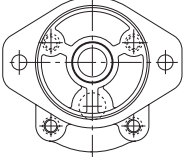
sales@oilsolutions.com.au

GEAR MOTORS "E" SERIES

Aluminium Body

2ME

SHAFTS AND FLANGES COMBINATION

2ME					
	CODE P1 European standard	CODE B1 German standard	CODE B2-B3 German standard	CODE B4-B5 German standard	CODE S2-S6 SAE A 2 Bolts
 CODE 25 - Tapered 1:5		25B1		25B4 25B5	
 CODE 28 - Tapered 1:8	28P1				
 CODE 62 - DIN 5482 splined 9T	62P1	62B1	62B2 62B3	62B4 62B5	
 CODE 03 - Tang drive for electric motors			03B2 03B3		
 CODE 52 - SAE A splined 9T					52S2
 CODE 54 - SAE A splined 11T					54S2
 CODE 85 - SAE A parallel shaft Ø19.05					85S2
 CODE 82 - SAE A parallel shaft Ø15.87	82P1				82S2

Note: other versions available, see shafts and flanges information.

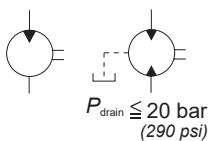
EO.120.0219.02.001M04

2ME

GEAR MOTORS "E" SERIES

Aluminium Body

Displacements up to 1.58 cu.in./rev
Pressure up to 4060 psi



GEAR MOTORS

Displacements up to 25.8 cm³/rev
Pressure up to 280 bar

ASSEMBLING DIMENSIONS AND WORKING CONDITIONS

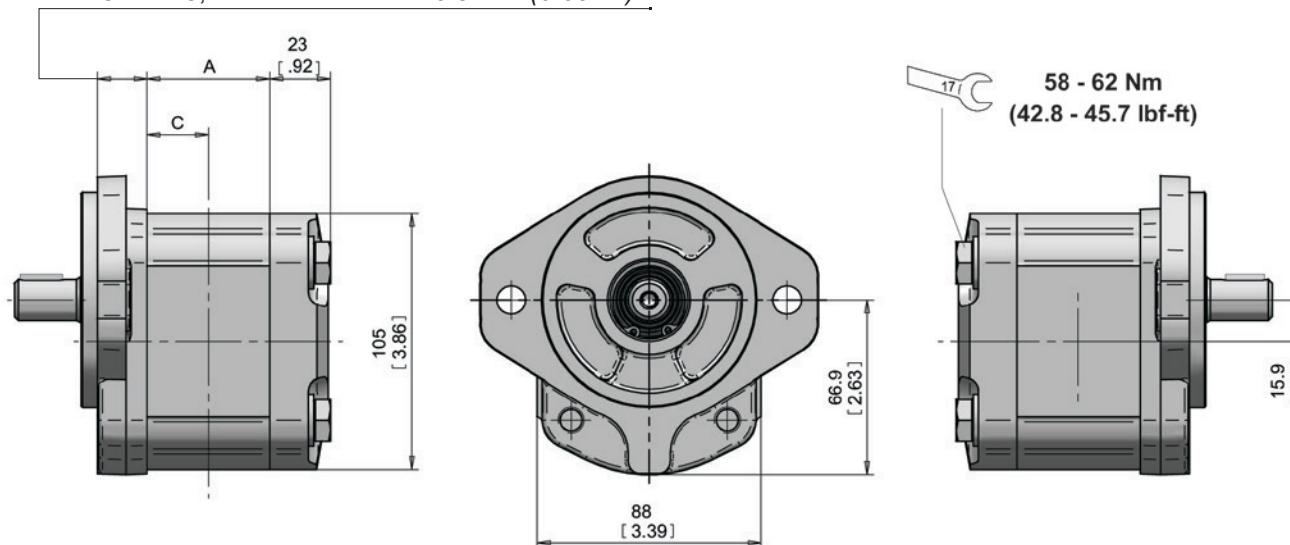
Type			4.5	6.5	8.3	10.5*	11.3	12.5*	13.8	16	19	22.5	26
Displacement	cm³/rev		4.6	6.5	8.2	10.6	11.5	12.7	13.8	16.6	19.4	22.9	25.8
	cu.in./rev		0.27	0.40	0.50	0.65	0.68	0.77	0.84	1.01	1.15	1.37	1.58
Dimension A	mm		47.1	49.95	52.8	56.3	59.7		63.5	67.5	75.6	81	86.8
	in		1.83	1.97	2.07	2.22	2.35		2.5	2.65	2.97	3.19	3.42
Dimension C	mm		23.55	25	26.4	28.15	29.75		31.75	33.75	37.80	40.5	43.4
	in		0.93	0.98	1.04	1.11	1.17		1.25	1.33	1.49	1.59	1.71
Max continuous pressure	P ¹	bar	250	250	250	250	250	250	250	250	220	200	180
		psi	3625	3625	3625	3625	3625	3625	3625	3625	3190	2900	2610
Max starting pressure	P ²	bar	280	280	280	280	280	280	280	280	240	220	200
		psi	4060	4060	4060	4060	4060	4060	4060	4060	3480	3190	2900
Max speed		rpm	4000	4000	3600	3500	3500	3400	3400	3200	3200	3000	2850
Min speed		rpm	600	600	500	500	500	500	500	450	450	450	450
Weight	kg		3.10	3.50	3.60	3.70	3.75	3.78	3.86	4.00	4.18	4.29	4.54
	lbs		6.83	7.72	7.94	8.16	8.27	8.33	8.51	8.82	9.22	9.46	10.1

*Available for quantity

For flanges code:

P1-B1-S2-S6, this dimension is 19 mm (0.75 in.)

B2-B3-B4-B5, this dimension is 16.5 mm (0.65 in.)



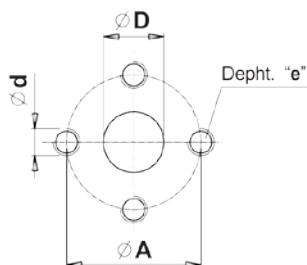
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GEAR MOTORS "E" SERIES

Aluminium Body

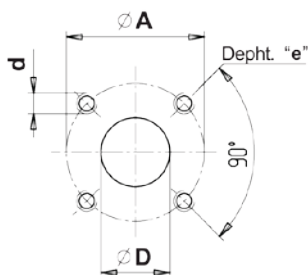
2ME

FLANGED AND THREADED PORTS



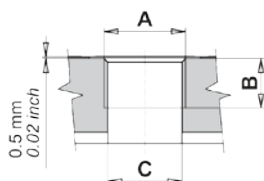
code P

Flanged ports
european standard



code B

Flanged ports
german standard



code G

Threaded ports
GAS (BSPP)

UNI-DIRECTIONAL MOTORS	TYPE	OUTLET				INLET			
		Ø D	Ø A	d	e	Ø D	Ø A	d	e
	From 4.5 to 8.3	13 (0.51")	30 (1.18")	M6	13 (0.51")	13 (0.51")	30 (1.18")	M6	13 (0.51")
	From 11.3 to 22.5	20 (0.78")	40 (1.56")	M8					
	26	25 (0.97")							

BI-DIRECTIONAL MOTORS	TYPE	Ø D	Ø A	d	e	Ø D	Ø A	d	e
	From 4.5 to 16	13 (0.51")	30 (1.18")	M6	13 (0.51")	13 (0.51")	30 (1.18")	M6	13 (0.51")
	From 19 to 26	20 (0.78")	40 (1.56")	M8		20 (0.78")	40 (1.56")	M8	

UNI-DIRECTIONAL MOTORS	TYPE	Ø D	Ø A	d	e	Ø D	Ø A	d	e
	From 4.5 to 22.5	20 (0.78")	40 (1.56")	M6	13 (0.51")	15 (0.59")	35 (1.38")	M6	13 (0.51")
	26	22 (0.87")							

BI-DIRECTIONAL MOTORS	TYPE	Ø D	Ø A	d	e	Ø D	Ø A	d	e
	From 4.5 to 16	15 (0.59")	35 (1.38")	M6	13 (0.51")	15 (0.59")	35 (1.38")	M6	13 (0.51")
	From 19 to 26	20 (0.78")	40 (1.56")			20 (0.78")	40 (1.56")		

UNI-DIRECTIONAL MOTORS	TYPE	OUTLET			INLET		
		A	B	C	A	B	C
	From 4.5 to 26	G3/4	16 (0.62")	20 (0.78")	G1/2	14 (0.54")	13 (0.51")

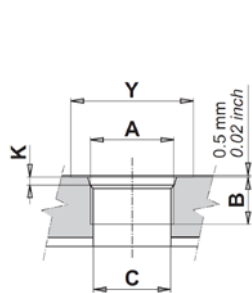
BI-DIRECTIONAL MOTORS	TYPE	OUTLET			INLET		
		A	B	C	A	B	C
	From 4.5 to 16	G1/2	14 (0.54")	13 (0.51")	G1/2	14 (0.54")	13 (0.51")
	From 19 to 26	G3/4	16 (0.62")	20 (0.78")	G3/4	16 (0.62")	20 (0.78")

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2ME

GEAR MOTORS "E" SERIES Aluminium Body



code R

Threaded ports
SAE (ODT)

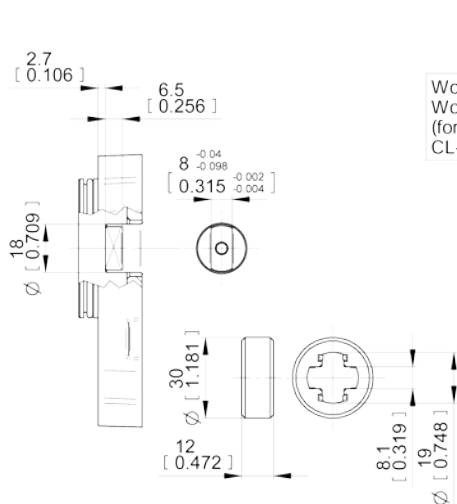
UNI-DIRECTIONAL
MOTORS

BI-DIRECTIONAL
MOTORS

TYPE	OUTLET					INLET				
	A	B	C	Y	K	A	B	C	Y	K
From 4.5 to 26	1-1/16-12 UN (SAE 12)	16 (0.62")	20 (0.78")	41 (1.61")	3.3 (0.12")	7/8 - 14 UNF (SAE10)	14 (0.54")	13 (0.51")	34 (1.32")	2.5 (0.10")

TYPE	OUTLET					INLET				
	A	B	C	Y	K	A	B	C	Y	K
From 4.5 to 16	7/8 - 14 UNF (SAE10)	14 (0.54")	13 (0.51")	34 (1.32")	2.5 (0.10")	7/8 - 14 UNF (SAE10)	14 (0.54")	13 (0.51")	34 (1.32")	2.5 (0.10")
From 19 to 26	1-1/16-12 UN (SAE 12)	16 (0.62")	20 (0.78")	41 (1.61")	3.3 (0.12")	1-1/16-12 UN (SAE 12)	16 (0.62")	20 (0.78")	41 (1.61")	3.3 (0.12")

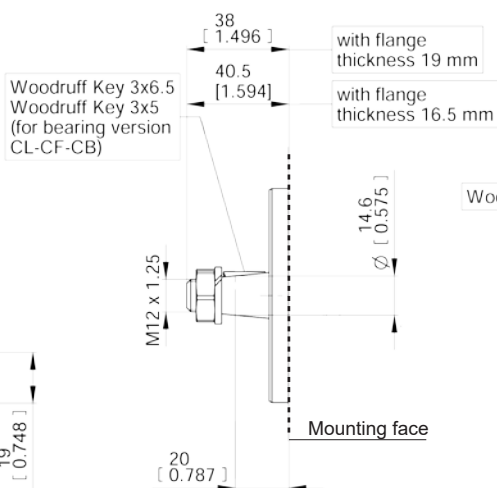
DRIVE SHAFTS



code 03

Max torque 72 Nm

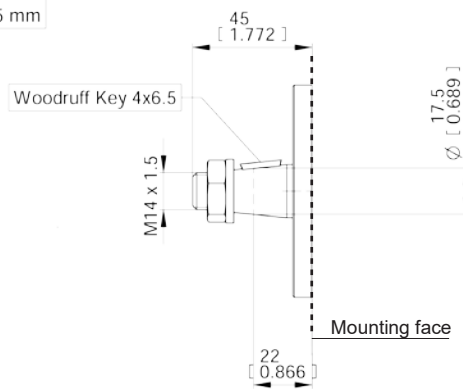
Tang drive for electric motors
Without shaft seal



code 25

Max torque 130 Nm

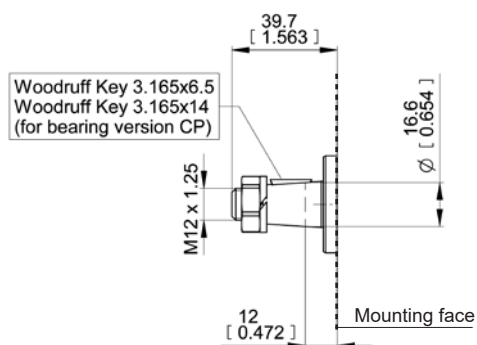
Tapered 1:5



code 26

Max torque 100 Nm

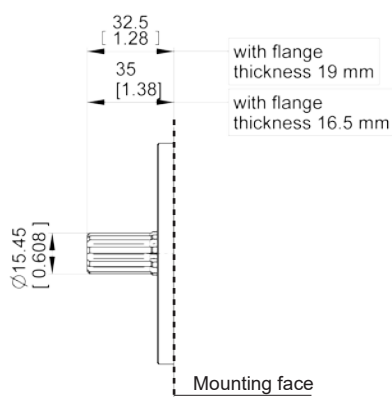
Tapered 1:5 (only for CB)



code 28

Max torque 130 Nm

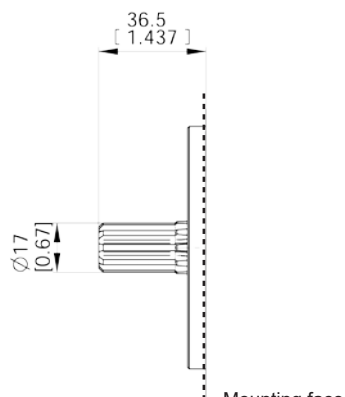
Tapered 1:8



code 52

Max torque 100 Nm

SAE A 9T-16/32DP Ansi B92 1a 1976



code 53

Max torque 125 Nm (1106 lbf in)

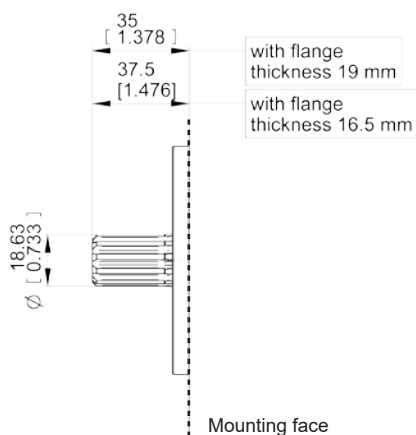
SAE 10T-16/32DP Ansi B92 1a 1976

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GEAR MOTORS "E" SERIES

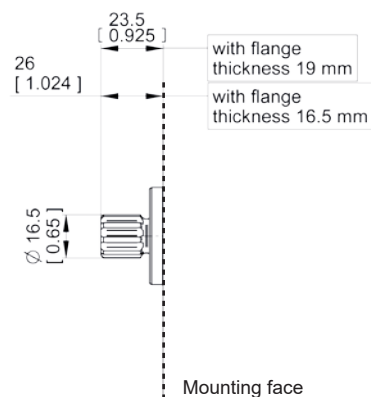
Aluminium Body

2ME



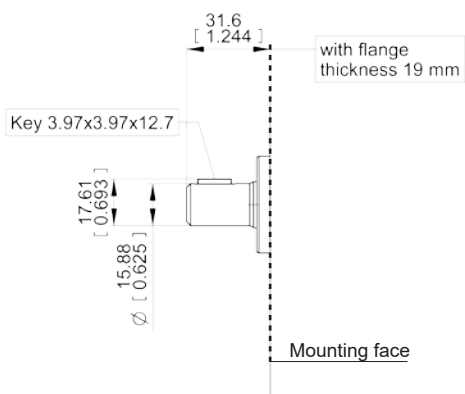
code 54 Max torque 150 Nm (1327 lbf in)

SAE A 11T-16/32DP Ansi B92 1a 1976



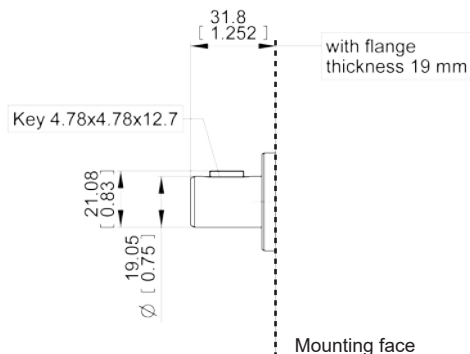
code 62 Max torque 120 Nm (1062 lbf in)

9 teeth DIN 5482 splined



code 82 Max torque 70 Nm (620 lbf in)

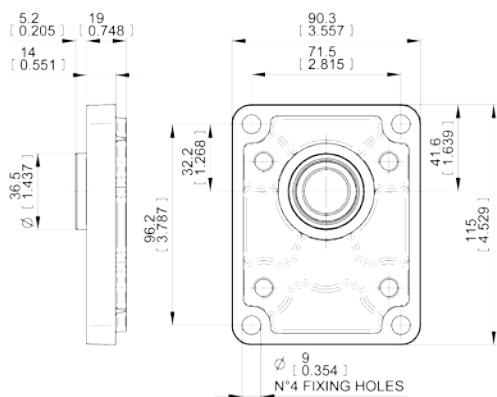
5/8" SAE A parallel



code 85 Max torque 130 Nm (1151 lbf in)

3/4" SAE A parallel

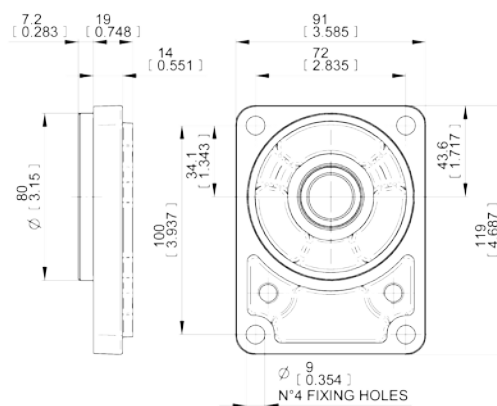
MOUNTING FLANGES



P1

European standard

With shaft code 28-62-82



B1

German standard

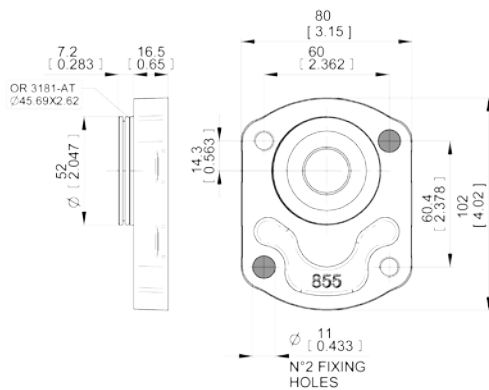
With shaft code 25-62

EO.120.0219.02.001M04



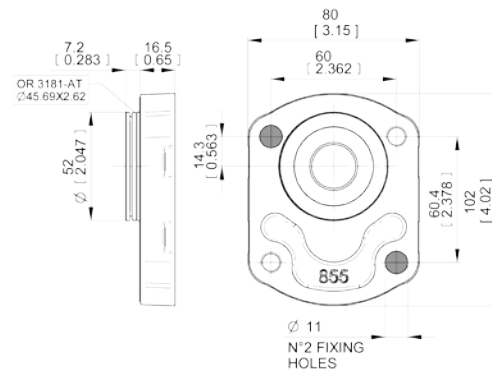
2ME

GEAR MOTORS "E" SERIES Aluminium Body



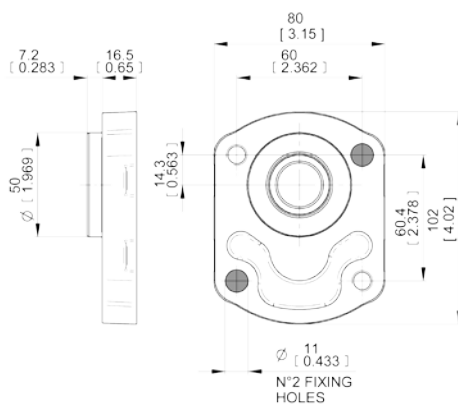
B2 German standard

With shaft code 03



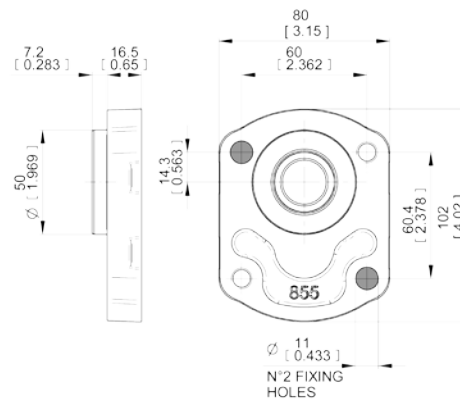
B3 German standard

With shaft code 03



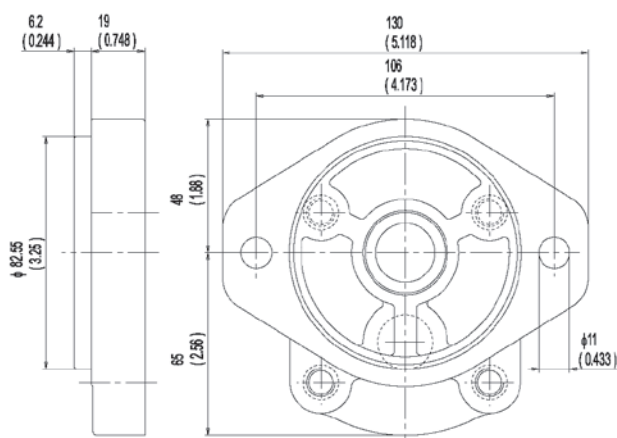
B4 German standard mounting flange

With shaft code 25-62



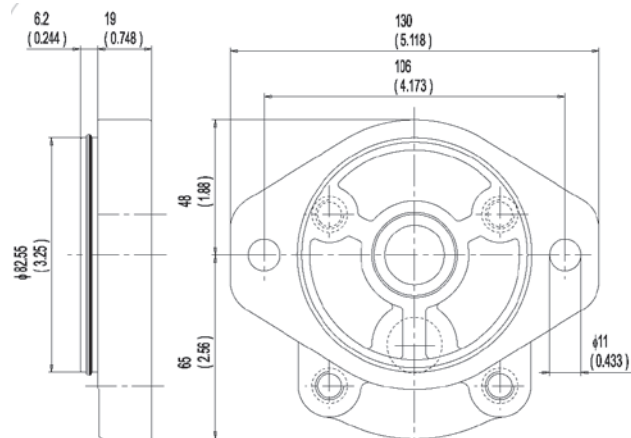
B5 German standard mounting flange

With shaft code 25-62



S2 SAE A

With shaft code 52-53-54-82-85



S6 SAE A 2 bolts
(with O-ring on the centering collar)

With shaft code 52-54-82-85

E0.120.0219.02.00IM04

GEAR MOTORS “E” SERIES

Aluminium Body

2ME

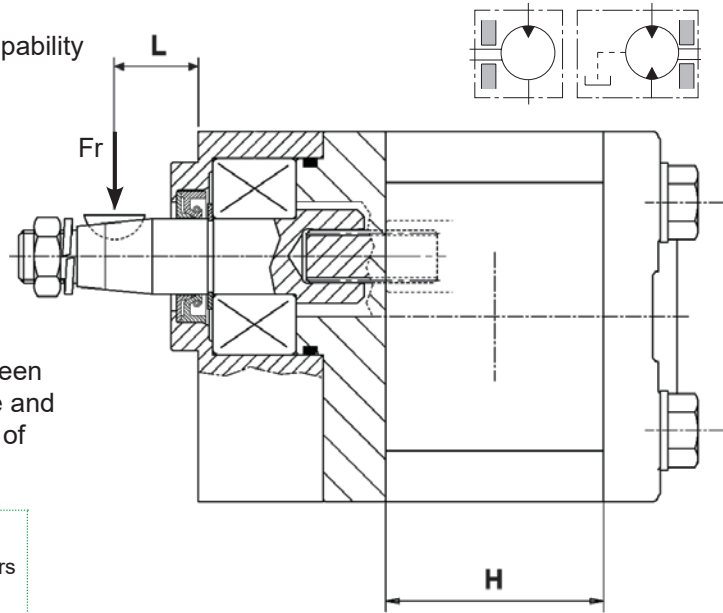
OUTRIGGER BEARING

The following diagrams show radial load capability of the bearing.

Calculation according to ISO 281 at 10 cSt.

TYPE	H
4.5	47.1 (1.83")
6.5	49.95 (1.97")
8.3	52.8 (2.08")
10.5	56.3 (2.22")
11.3-12.5	59.7 (2.35")
13.8	63.5 (2.5")
16	67.5 (2.66")
19	75.6 (2.97")
22.5	81 (3.19")
26	86.6 (3.42")

L=Distance between mounting flange and radial force point of application.



Example:

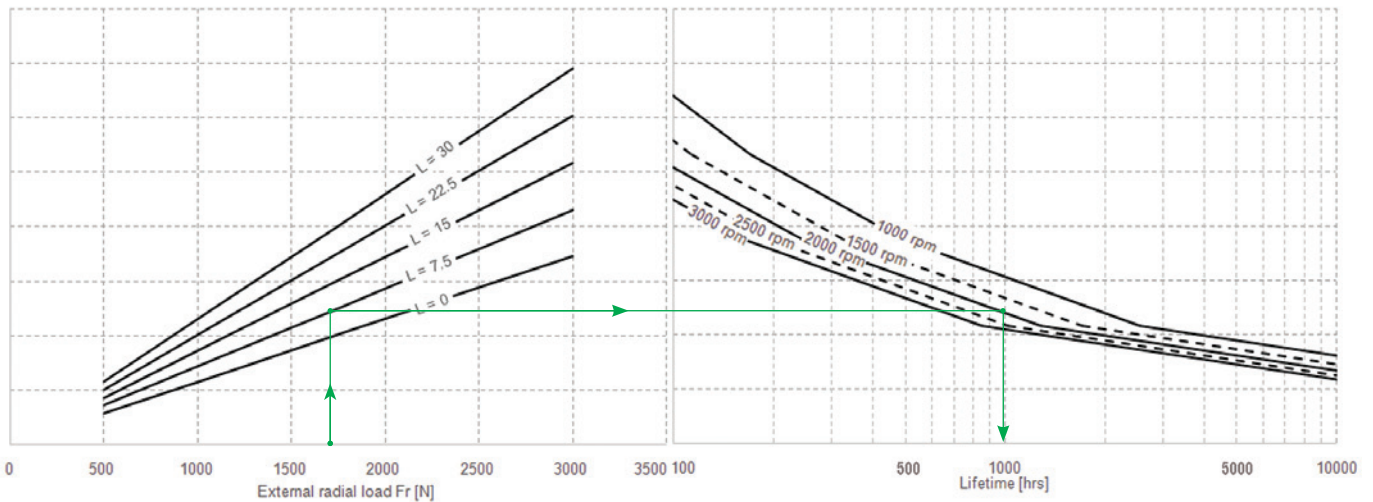
$F_r = 1700 \text{ N}$

$L = 7.5$

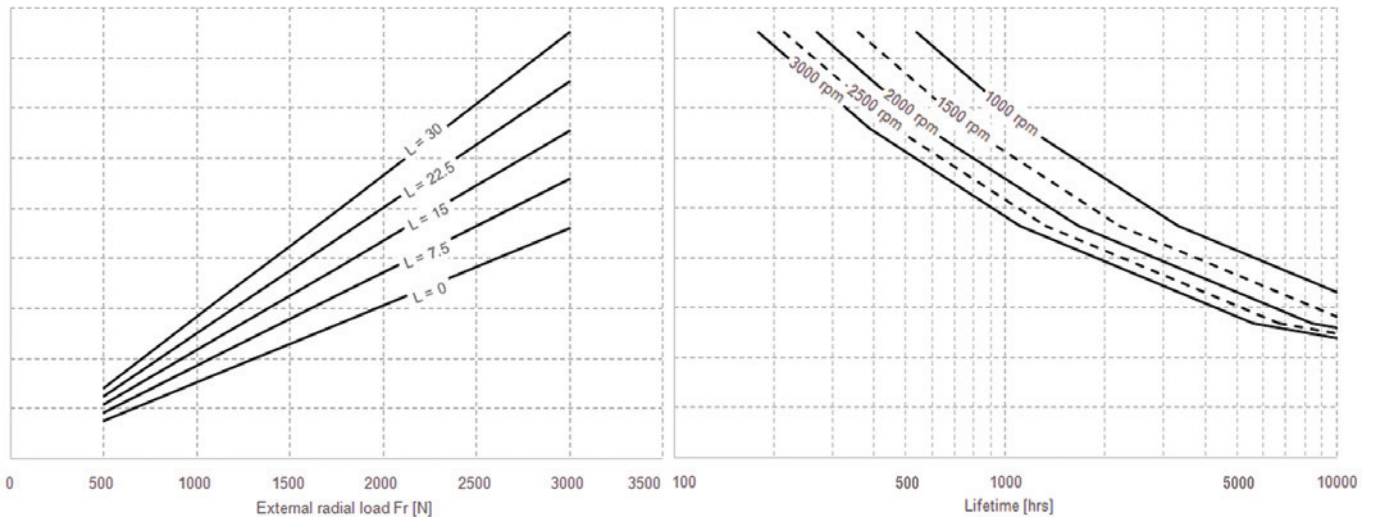
Speed = 2000 rpm

Expected life: 1000 hrs

For Code CP-CB-CL-CS



For Code CF



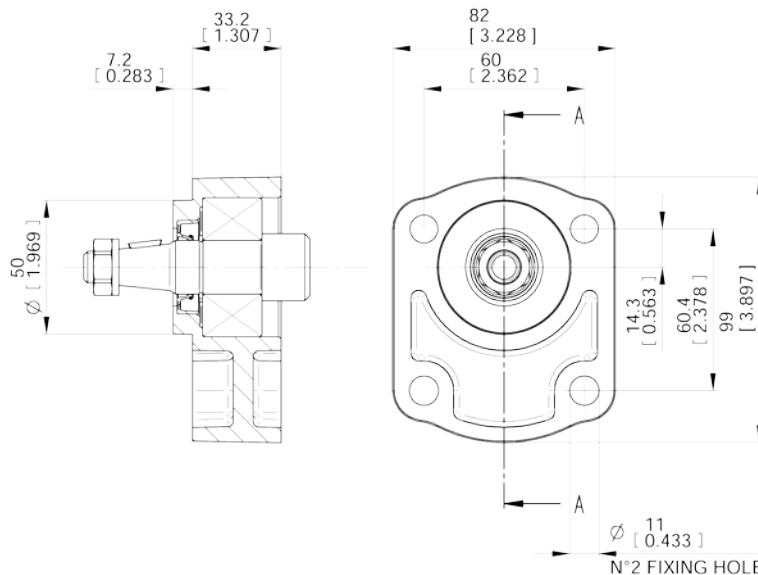
EO.120.0219.02.001M04

2ME

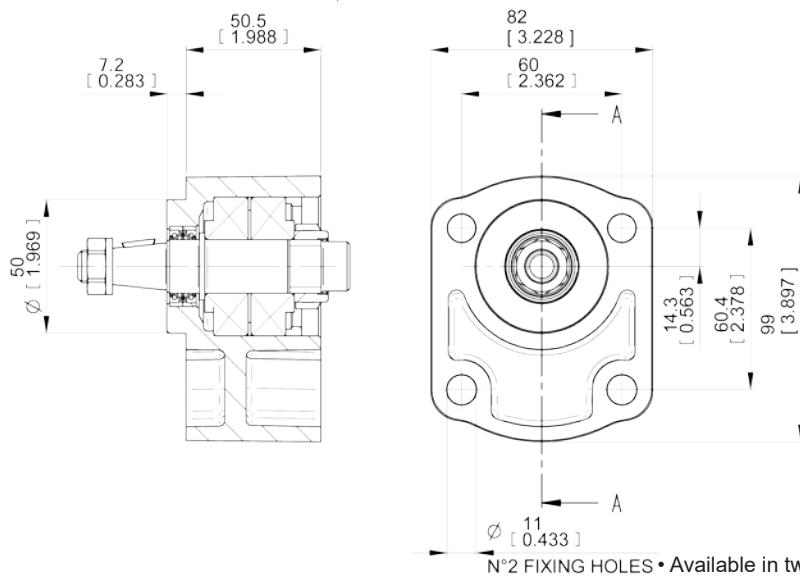
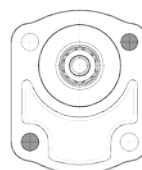
GEAR MOTORS “E” SERIES

Aluminium Body

ALUMINIUM MOUNTING FLANGES WITH BEARING


CL
For engine endothermic motors

With shaft code 25, 26 (see page 156)


A
B

Order example
2ME22,5D-G25B4-CL

Order example
2ME11,3D-B25B5-CF
CF
For endothermic motors

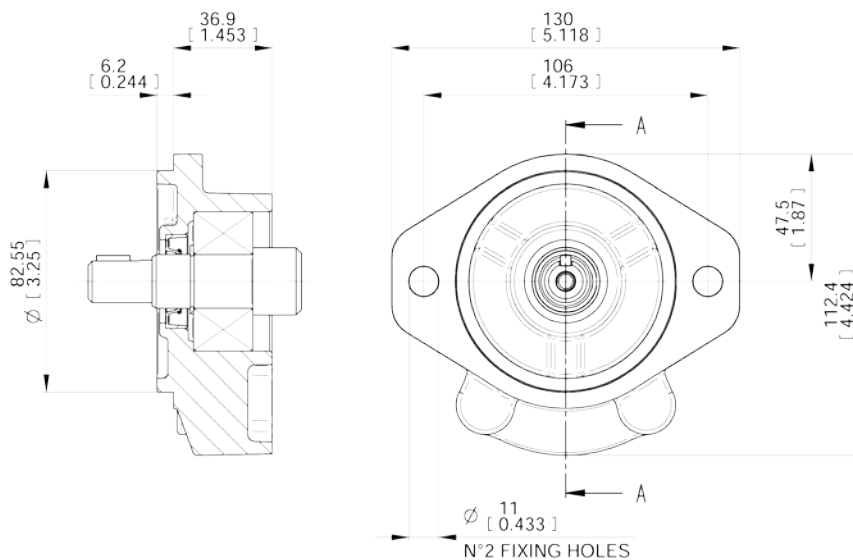
With shaft code 25-26 (see page 156)

E0.120.0219.02.00IM04

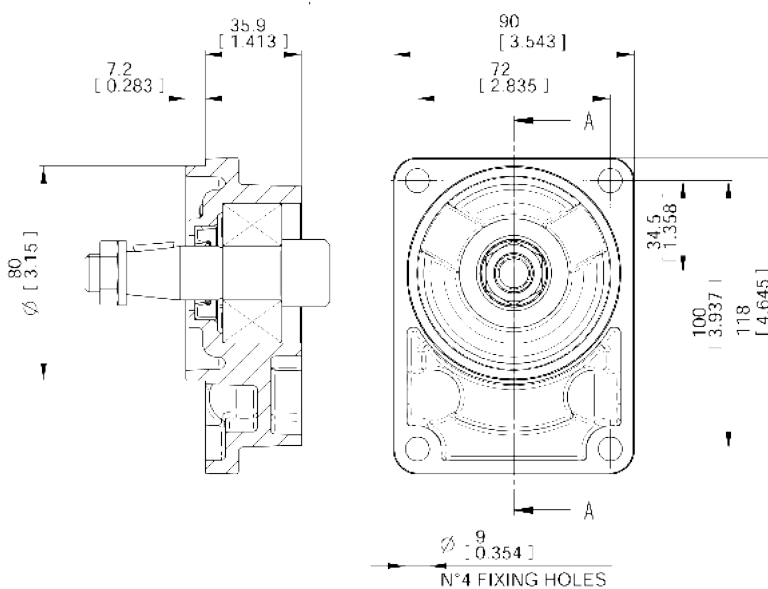
GEAR MOTORS "E" SERIES

Aluminium Body

2ME


CS
SAE A

With shaft code 52-54-82-85 (see page 156-157)


CB
German standard

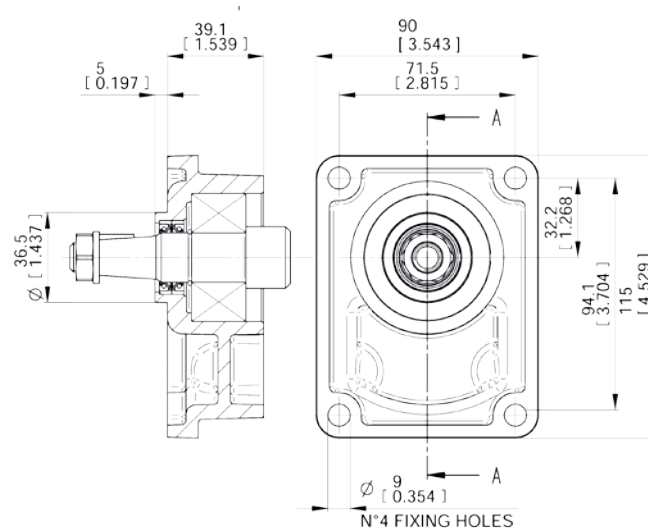
With shaft code 25-26 (see page 156)

EO.120.0219.02.001M04

2ME

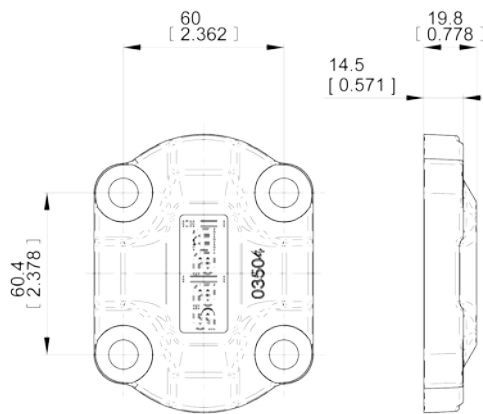
GEAR MOTORS “E” SERIES

Aluminium Body

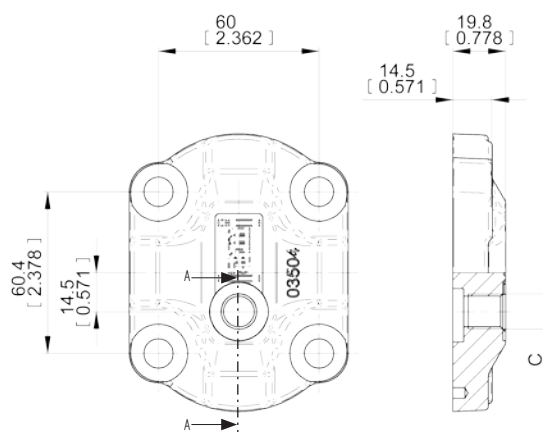

CP
European standard

With shaft code 28

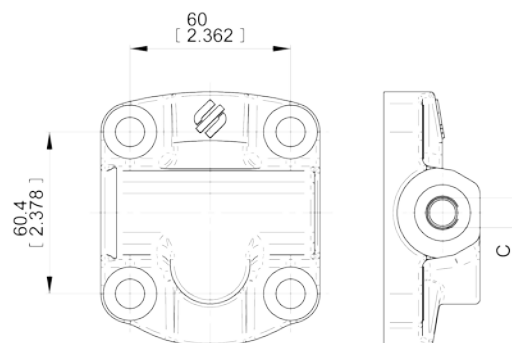
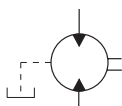
REAR COVERS



STANDARD REAR COVER



STANDARD REAR COVER WITH EXTERNAL DRAIN C FOR BIDIRECTIONAL MOTORS

code LD


REAR COVER WITH LATERAL DRAIN

C
G1/4
7/16-20 UNF-2B (SAE4)

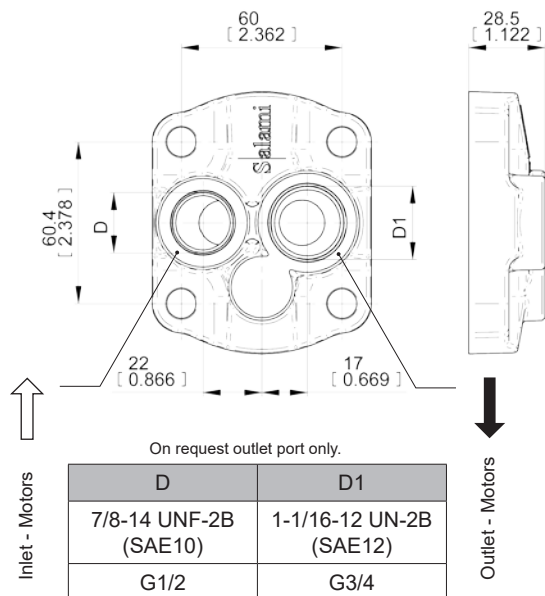
E0.120.0219.02.00IM04

GEAR MOTORS "E" SERIES

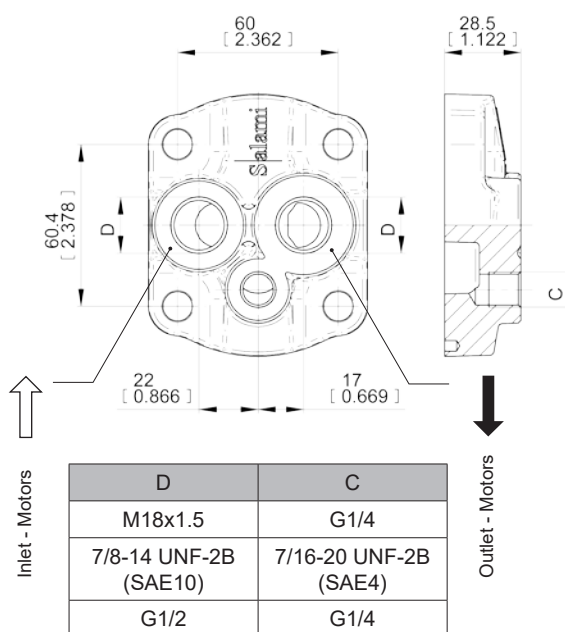
Aluminium Body

2ME

code 1 REAR COVER WITH REAR PORTS



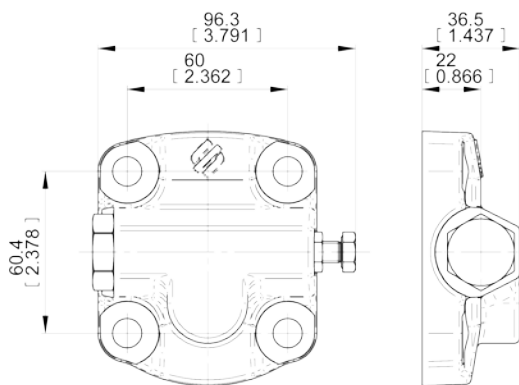
code 1 REAR COVER WITH REAR PORTS AND EXTERNAL DRAIN FOR BIDIRECTIONAL MOTORS



For rear ports if requested please advise type using.
For motors with threaded rear ports until 22 l/min delivery note.

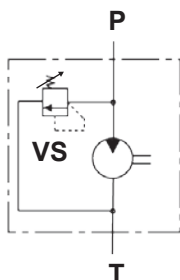
REAR COVERS WITH VALVE

code VS INTERNAL DISCHARGE

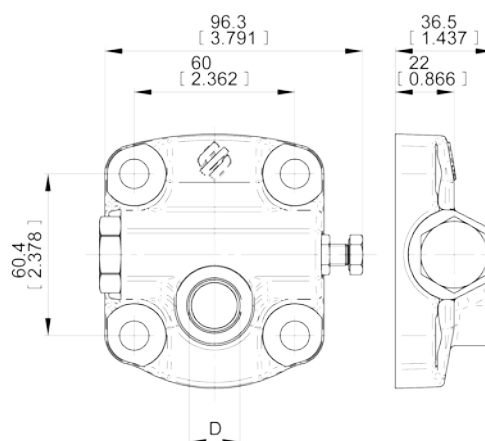


MAIN RELIEF VALVE setting ranges

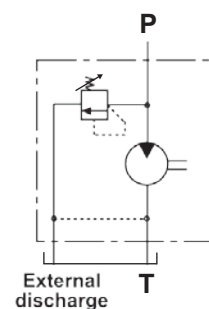
30-60 bar
61-120 bar
121-170 bar
171-250 bar



code VSE EXTERNAL DISCHARGE



D (external discharge)
M18x1.5 (METRIC)
3/4-16 UNF-2B (SAE 8)
G3/8 (BSPP)

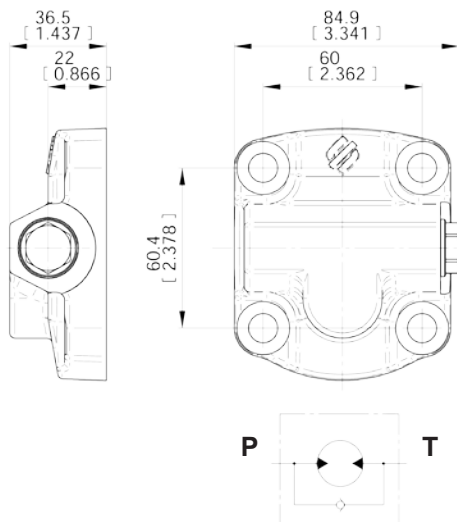


EO.120.0219.02.001M04

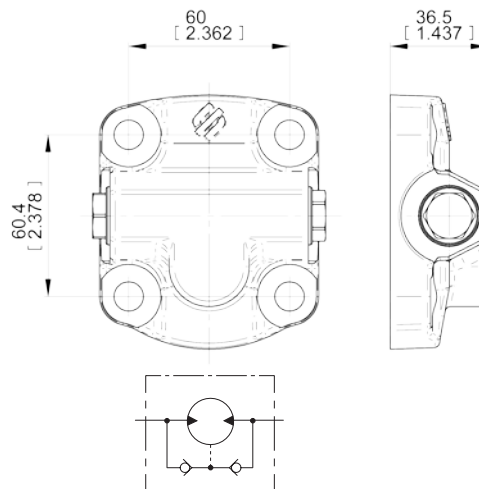
2ME

GEAR MOTORS "E" SERIES Aluminium Body

code VR ANTI-CAVITATION VALVE



code IDV REAR COVERS WITH
INTERNAL DRAIN



VENTING VALVE FOR DOUBLE STEP OF SPEED

code EPV

ELECTRIC RELIEF VALVE 2 - way with filter features:
VEI - 8I - 2A - 06 - NA - S1 - F - NSS
Coil 12V
Termination DIN 43650
Rated flow 30 L/min
Maximum operating pressure 210 bar

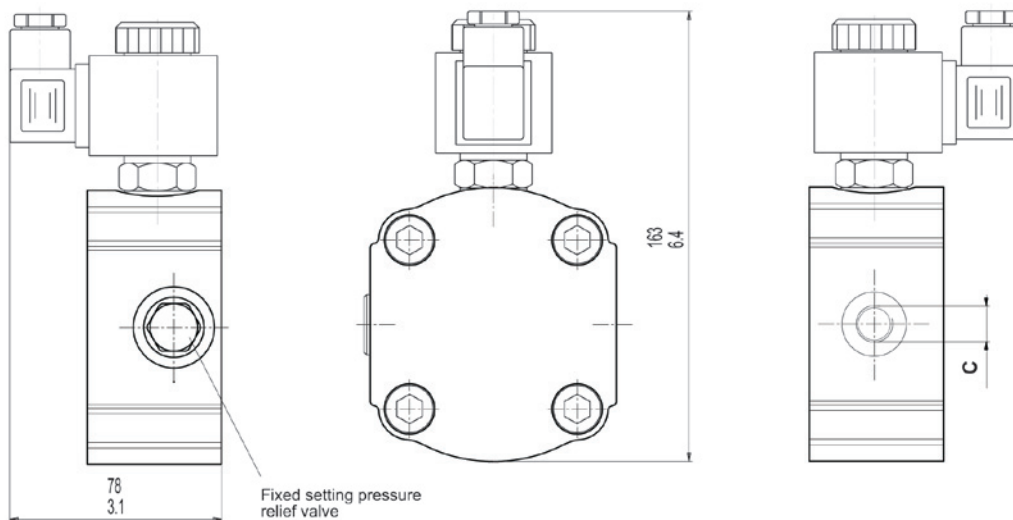
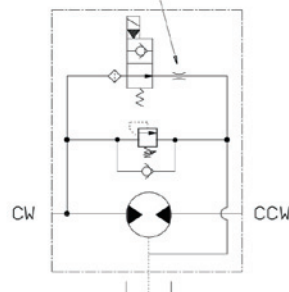
With this valve, we are able to fix a first step of speed (thanks to a calibrated orifice) when the electric venting valve is normally opened.

Energizing the valve you will have the full speed, in addition an overload and anti-cavitation valve protects the motor from peak of pressure and from reverse rotation caused by inertia.

Changing the calibrated orifice we are able to evaluate different cases in order to reach the customer's need.

C
G1/4
7/16-20 UNF-2B (SAE4)

Calibrated orifice in order to fix the speed



E0.120.0219.02.00IM04

GEAR MOTORS "E" SERIES

Aluminium Body

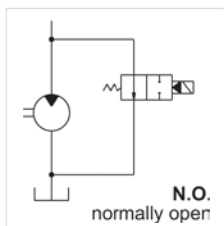
2ME

ELECTRIC UNLOADING VALVE

code EV

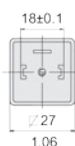
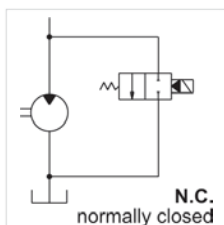
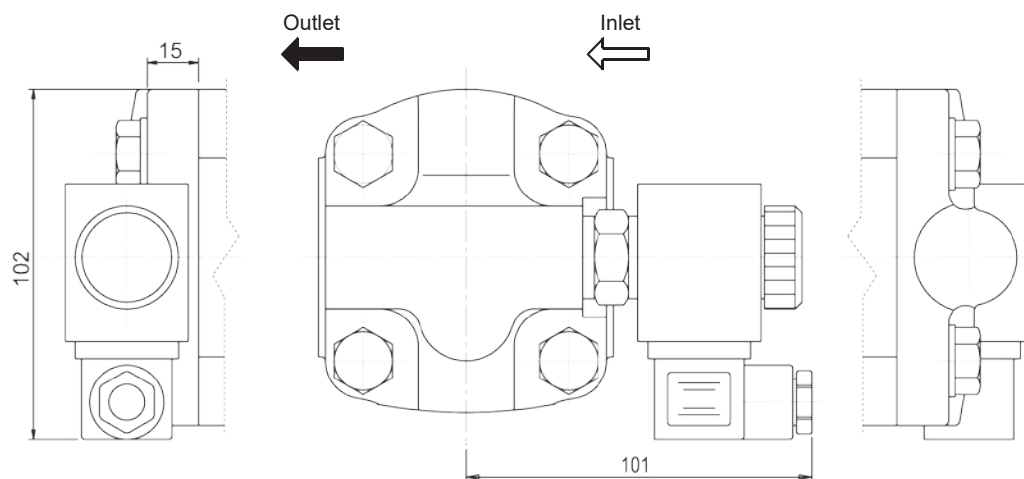
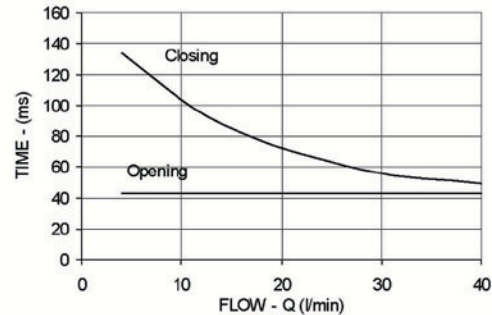
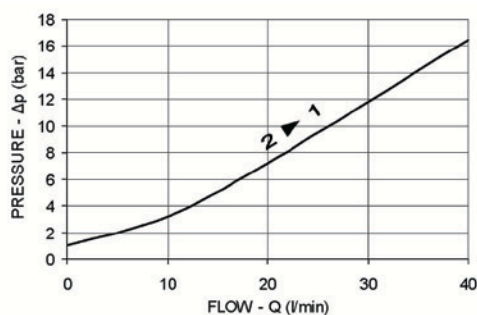
EV1 - 12 Vcc

EV2 - 24 Vcc



EV3 - 12 Vcc

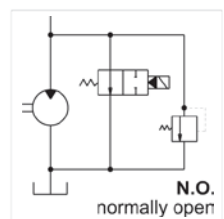
EV4 - 24 Vcc


CONNECTOR
DIN 43650
A/ISO 4400


code EVS

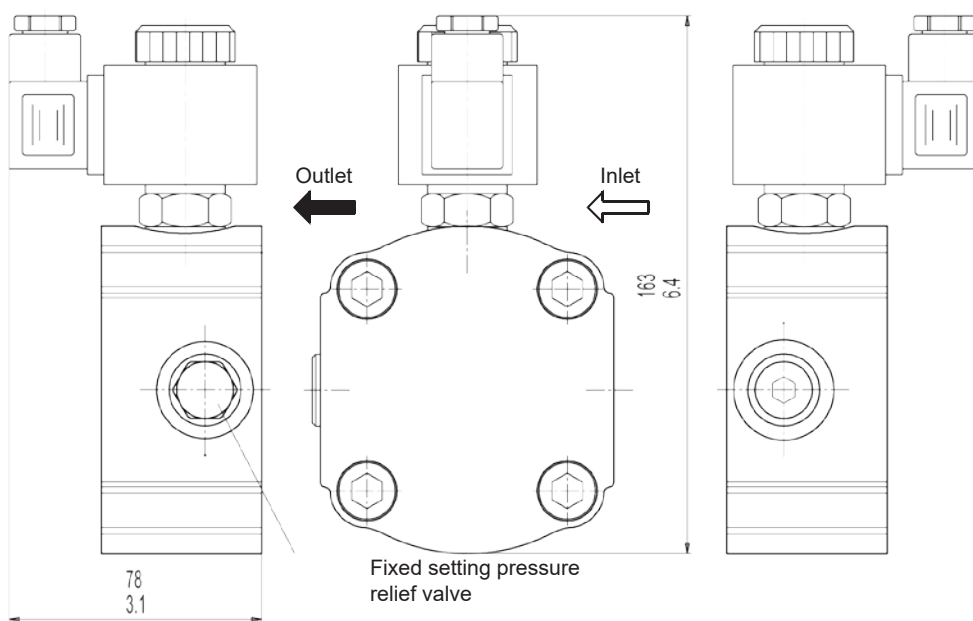
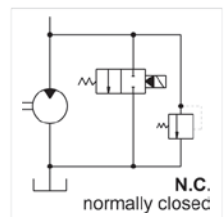
EVS1 - 12 Vcc

EVS2 - 24 Vcc



EVS3 - 12 Vcc

EVS4 - 24 Vcc



Cover with built-in relief and electric unloading valve

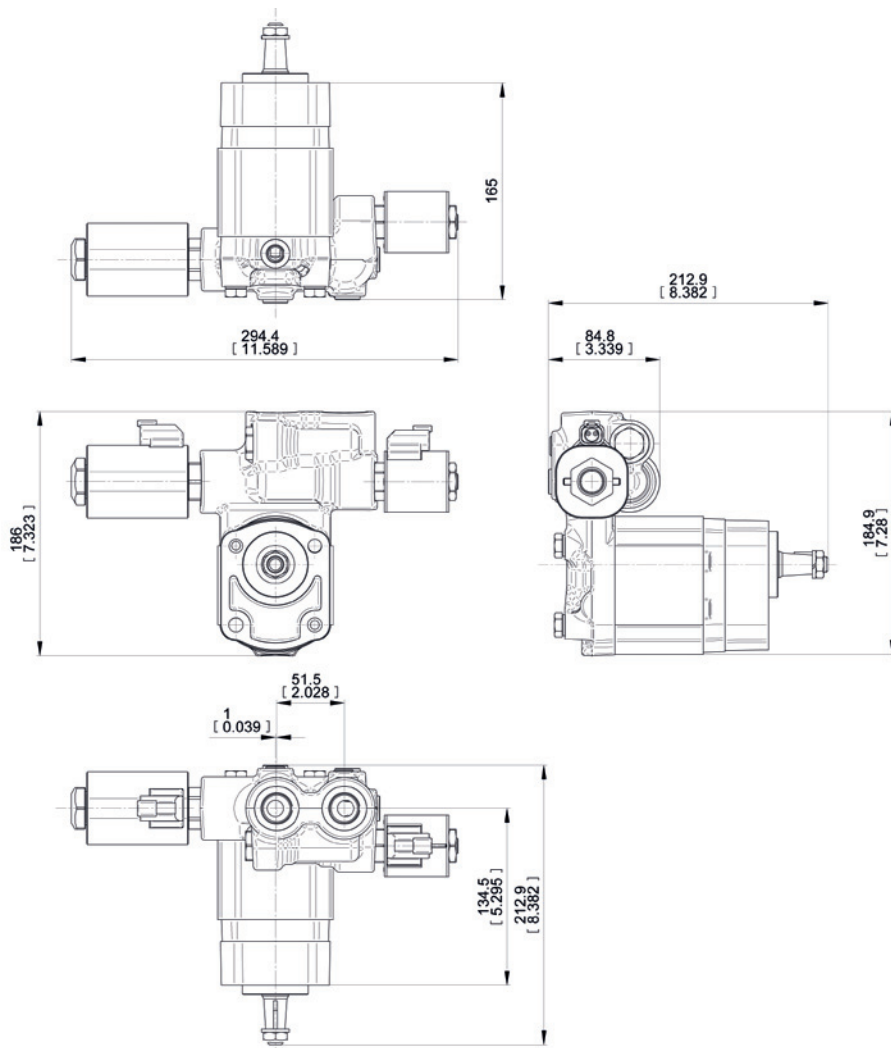
EO.120.0219.02.001M04

2ME

GEAR MOTORS "E" SERIES Aluminium Body

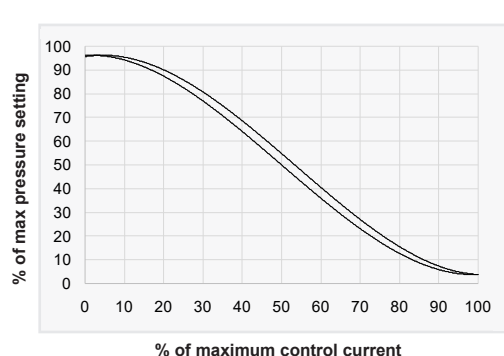
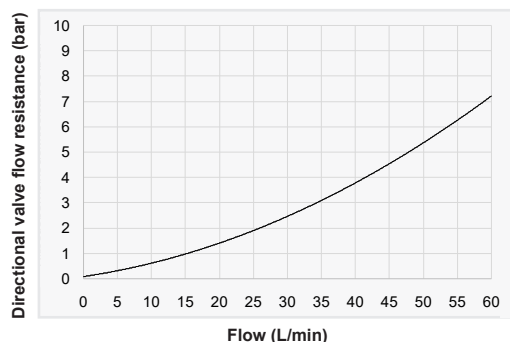
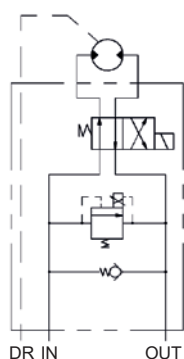
FAN DRIVE

Integrated manifold designed for fan drive systems with group 2 motors. The directional 4/2 electric valve and the proportional relief valve make the temperature regulation precise and the cooler's declogging efficient. Reduced dimensions, low weight and high pressure level are obtained thanks to a finite elements structural optimization of the casting.



General Constructive Features

- Compact design.
- High pressure level thanks to a cast iron manifold.
- Flow rate up to 60 L/min - 16 US gpm.
- Low flow resistance.
- Proportional relief valve for a precise temperature regulation.
- Available with directional valve for an efficient declogging of the fan.
- Waterproof coils protection up to IP69K.
- Reduced weight thanks to a Finite Elements structural optimization.
- Protection against pressure and torque shocks.
- Maximum speed in case of electric power failure.



E0.120.0219.02.00IM04

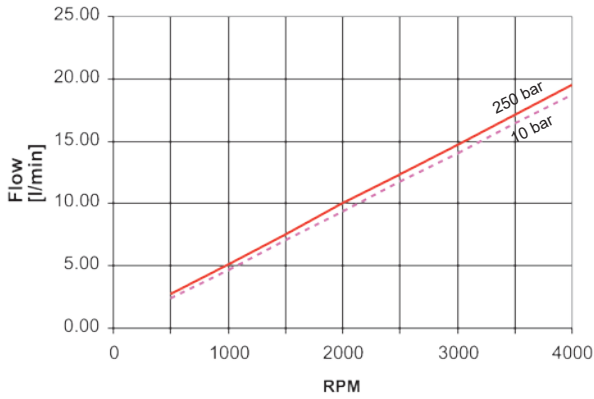
GEAR MOTORS "E" SERIES

Aluminium Body

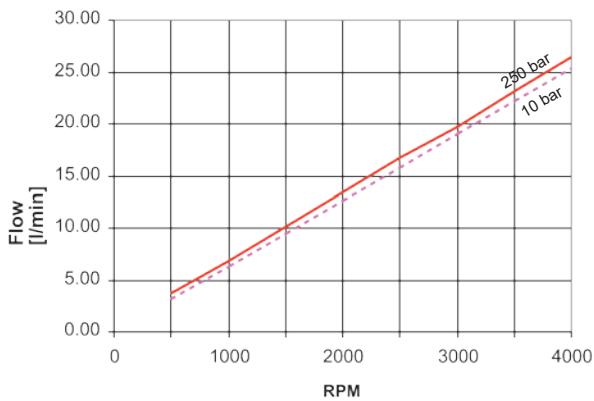
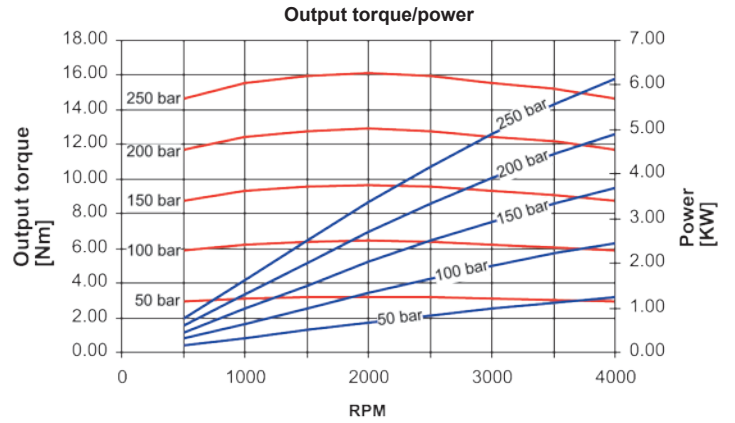
2ME

PERFORMANCE CURVES

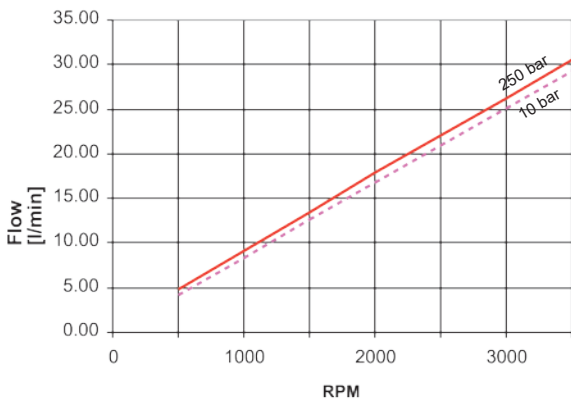
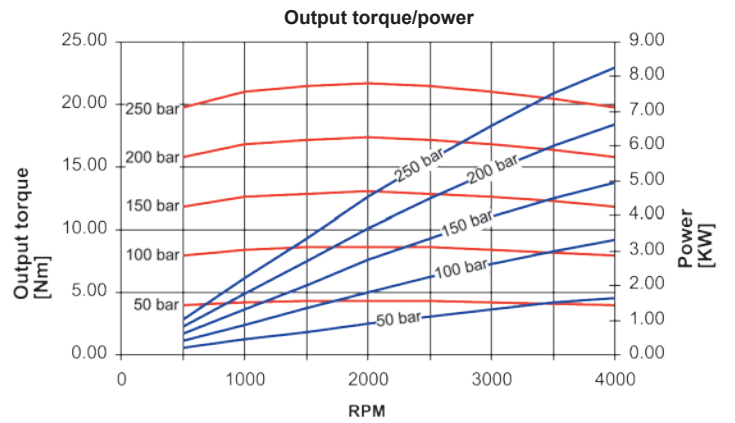
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C



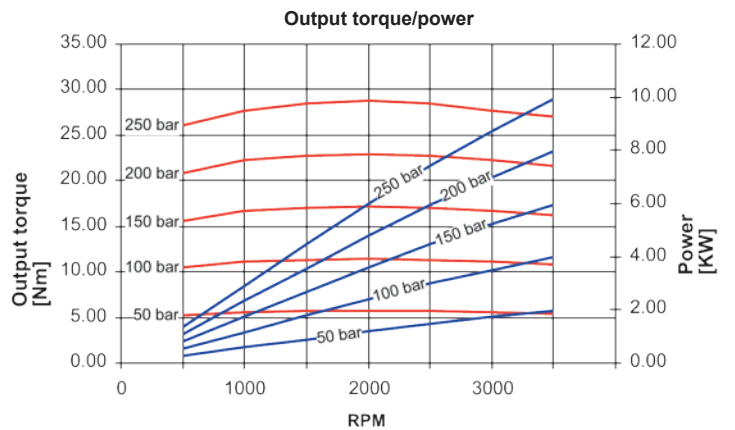
2ME - 4.5



2ME - 6.5



2ME - 8.3



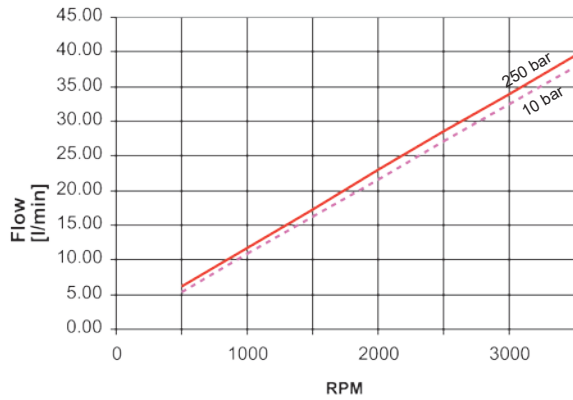
EO.120.0219.02.001M04

2ME

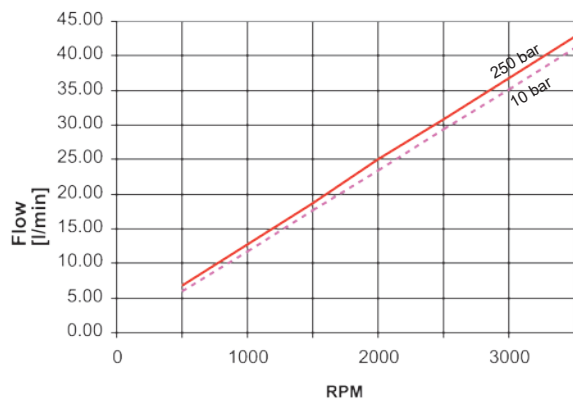
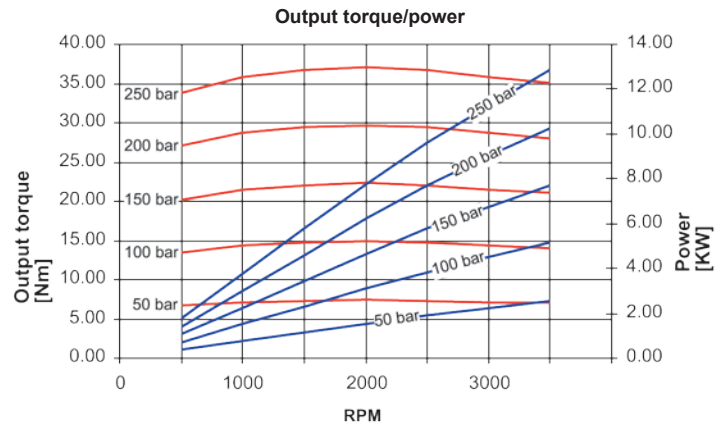
GEAR MOTORS "E" SERIES Aluminium Body

PERFORMANCE CURVES

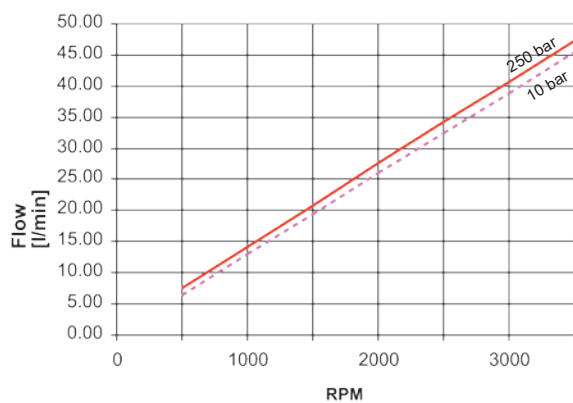
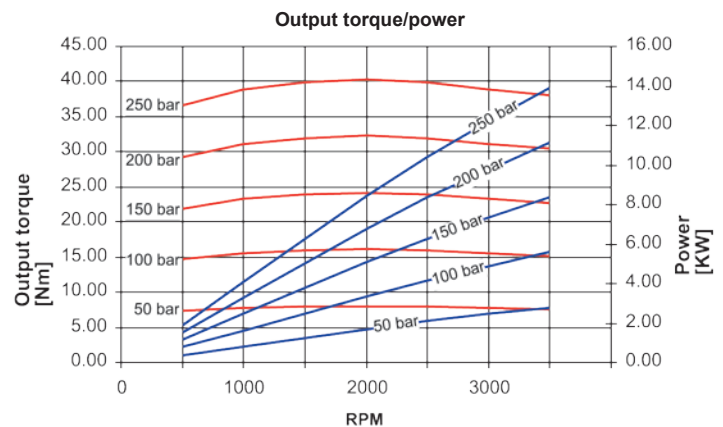
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C



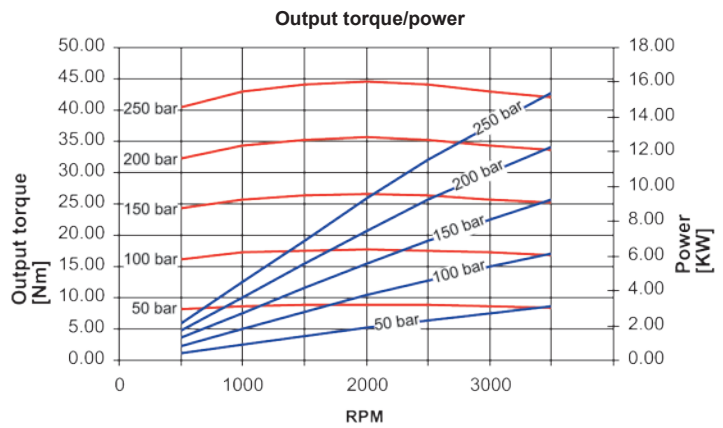
2ME - 10.5



2ME - 11.3



2ME - 12.5



E0.120.0219.02.00IM04

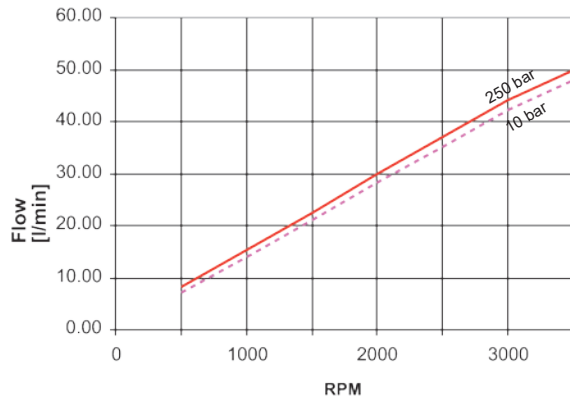
GEAR MOTORS "E" SERIES

Aluminium Body

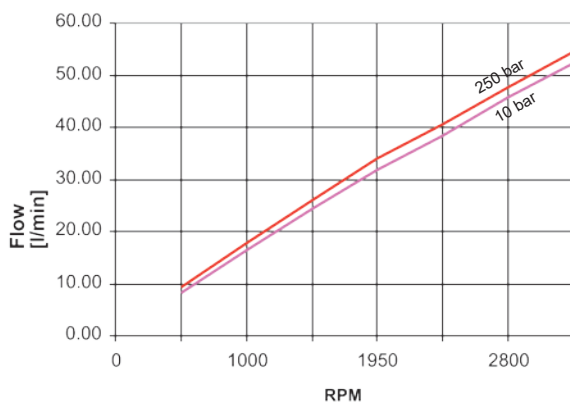
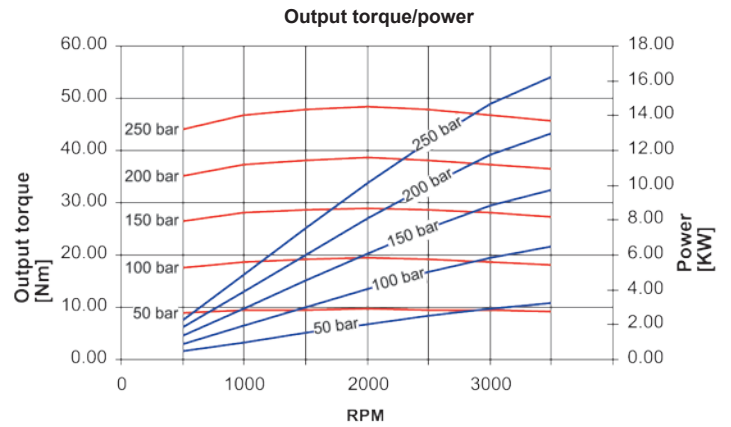
2ME

PERFORMANCE CURVES

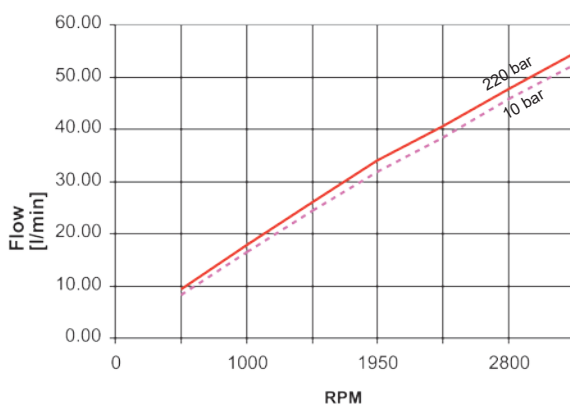
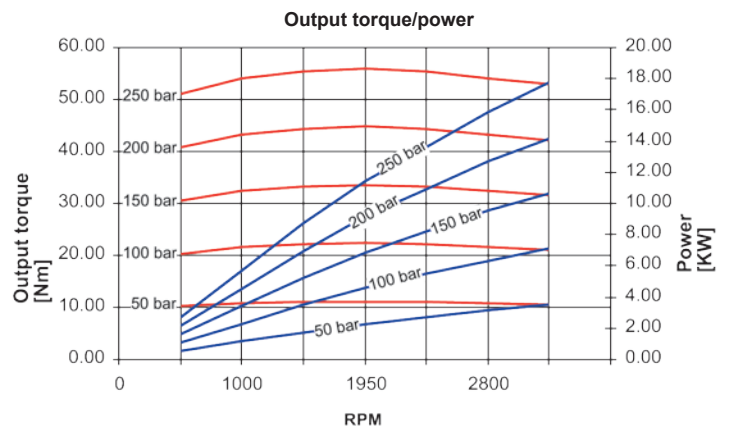
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C



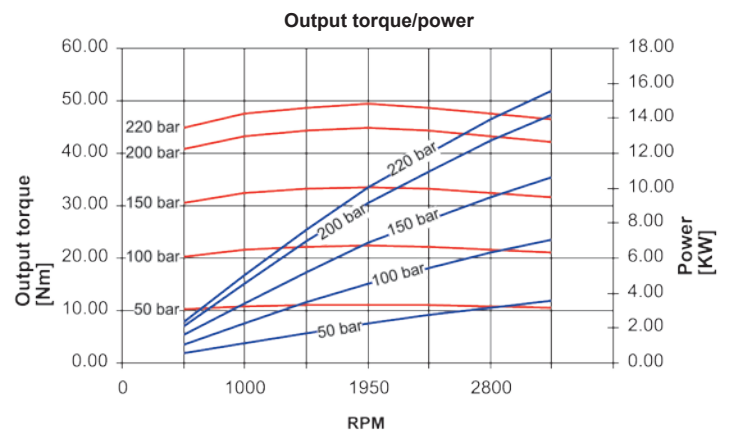
2ME - 13.8



2ME - 16



2ME - 19



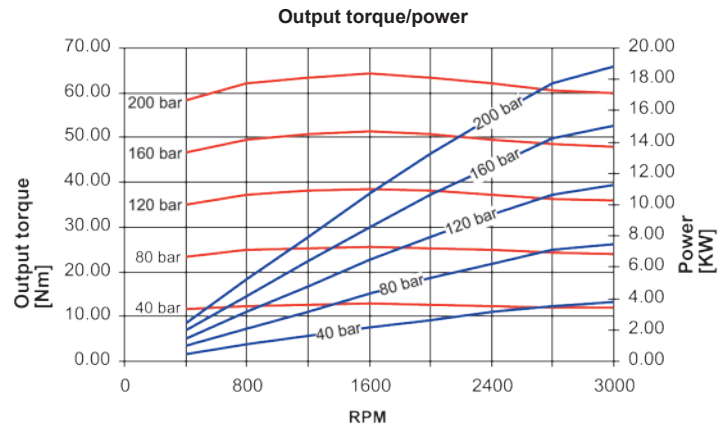
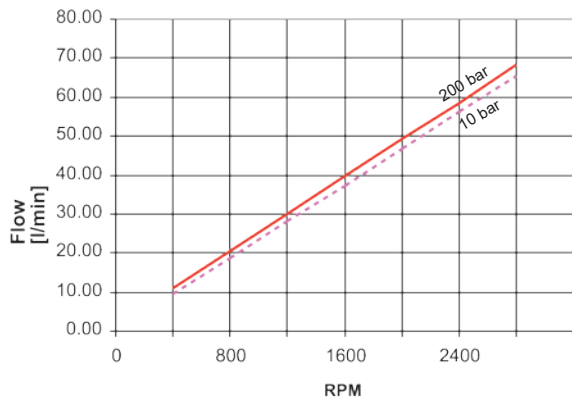
EO.120.0219.02.001M04

2ME

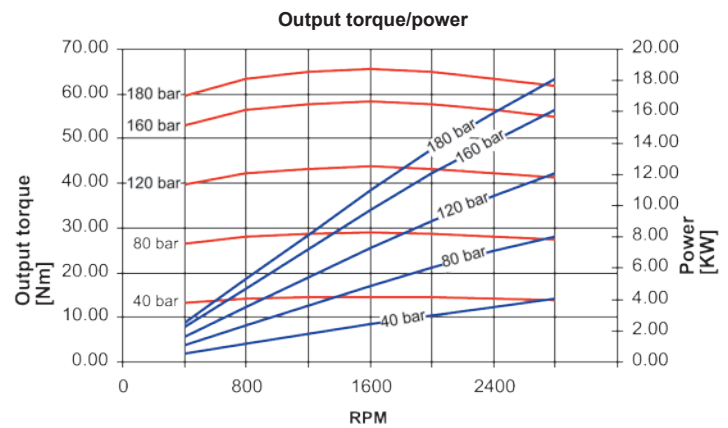
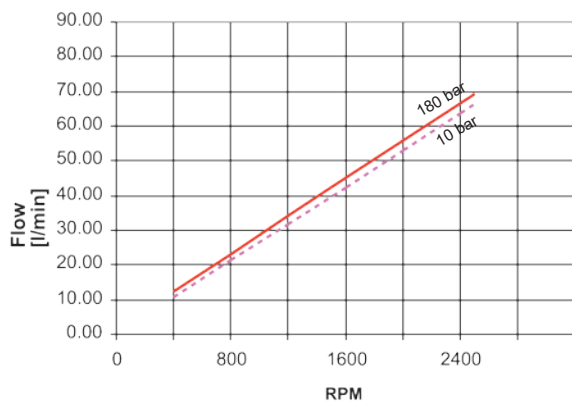
GEAR MOTORS "E" SERIES Aluminium Body

PERFORMANCE CURVES

Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C



2ME - 22.5



2ME - 26

E0.120.0219.02.00IM04

GEAR MOTORS “E” SERIES

Aluminium Body

2ME-How to order

SINGLE MOTORS

2ME

A

B

C

D

E

F

G

H

I

Adjustable flow l/min

Setting main relief valve (bar)

DISPLACEMENTS		A	CODES
4.6 cm³/rev.	0.27 cu.in/rev.	4.5	
6.5 cm³/rev.	0.40 cu.in/rev.	6.5	
8.2 cm³/rev.	0.50 cu.in/rev.	8.3	
10.6 cm³/rev.	0.65 cu.in/rev.	10.5	
11.5 cm³/rev.	0.68 cu.in/rev.	11.3	
12.5 cm³/rev.	0.77 cu.in/rev.	12.5	
13.8 cm³/rev.	0.84 cu.in/rev.	13.8	
16.6 cm³/rev.	1.01 cu.in/rev.	16	
19.4 cm³/rev.	1.18 cu.in/rev.	19	
22.9 cm³/rev.	1.37 cu.in/rev.	22.5	
25.8 cm³/rev.	1.58 cu.in/rev.	26	

ROTATION (page 132)	CODES	B
Clockwise	D	
Anti-clockwise	S	
Reversible	R	

PORTS (page 155)	CODES	C
Flanged ports european standard	P	
Flanged ports german standard	B	
Threaded ports GAS (BSPP)	G	
Threaded ports SAE (ODT)	R	

DRIVE SHAFT (page 156)	CODES	D
Tang drive for electric motors	03	
Tapered 1:5	25	
Tapered 1:5 (only for CB)	26	
Tapered 1:8	28	
SAE A splined 9T	52	
SAE splined 10T	53	
SAE A splined 11T	54	
9 teeth DIN 5482 splined	62	
5/8" SAE A parallel	82	
3/4" SAE A parallel	85	

VALVES IN THE COVER (page 162)		CODES
Lateral Drain	LD	
Adjustable main relief valve	VS	
Fixed setting main relief valve	VSE	
Electric unloading valve (12V)	EV1/EV3	
Electric unloading valve (24V)	EV2/EV4	
Main relief and electric unloading valves (12V)	EVS1/EVS3	
Main relief and electric unloading valves (24V)	EVS2/EVS4	
Valve for double step of speed	EPV	
Internal drain	IDV	
Anti - cavitation valve	VR	

OUTRIGGER BEARING (page 159)		CODES
European standard	CP	
German standard	CB	
For engine endothermic motors	CL	
For endothermic motors with axial and radial loads	CF	
SAE A	CS	

PORTS POSITION		CODE
Lateral ports standard		
Rear ports (page)	1	

SEAL		CODE
Buna standard		
Viton	V	

MOUNTING FLANGES (page 157)		CODES
European standard	P1	
German standard Ø80	B1	
German standard Ø52	B2-B3	
German standard Ø50	B4-B5	
SAE A 2 bolts	S2	
SAE A 2 bolts (with o-ring on the centering collar)	S6	

Order example: 2ME 19D, ports SAE (R), drive shaft (52), mounting flange (S2) with valve in the cover (VPS 12.5 l/min) and pressure relief valve setting 180 bar:
2ME19D-R52S2-VPS12.5/180

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