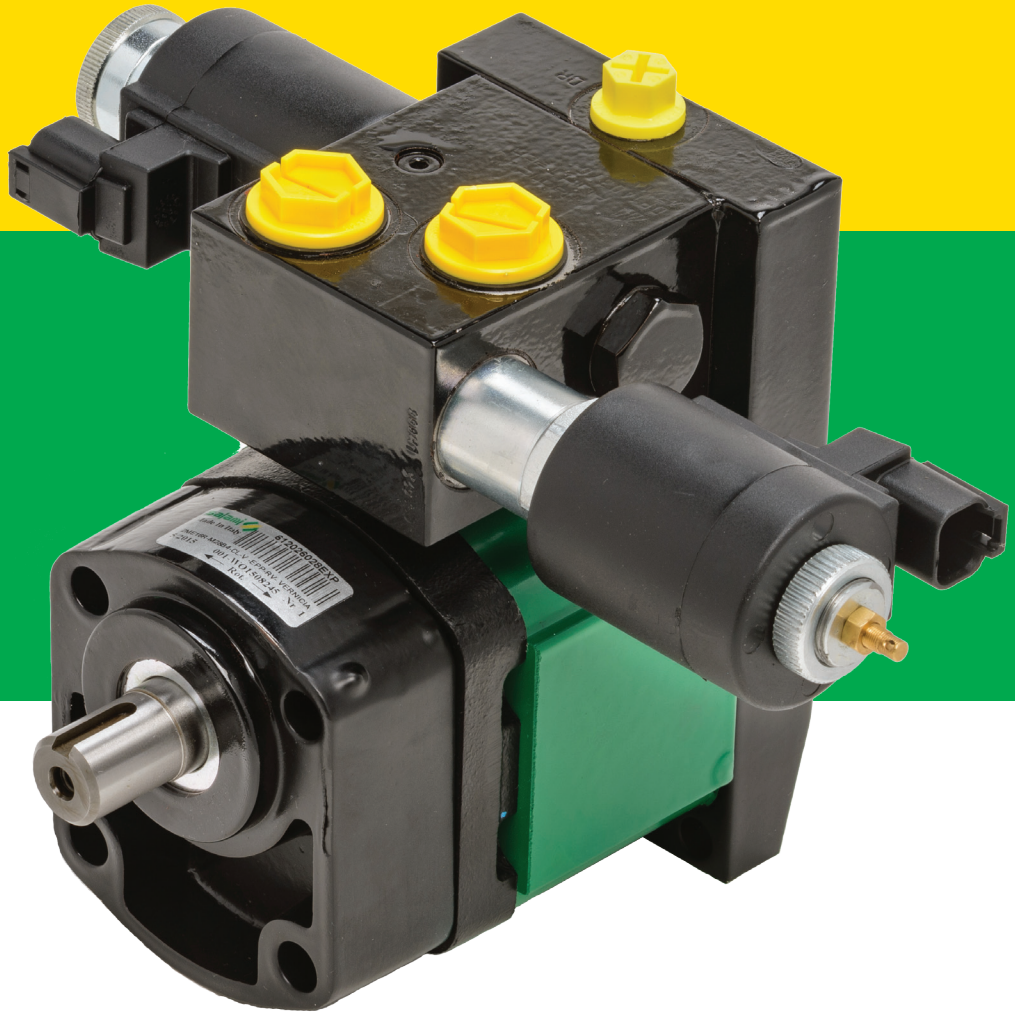
2ME

Aluminium gear motors

Technical Catalogue

E0.120.0219.02.00IM04



salami®

GEAR MOTORS

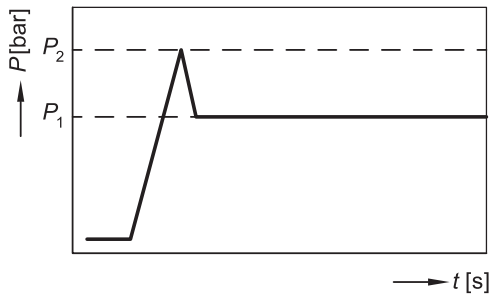
•Displacements from 2.8 cm^3/rev to 73.4 cm^3/rev *(from 0.17 cu.in./rev to 4.48 cu.in./rev).*
•Rated pressure up to 250 bar (3625psi).
•Back pressure capability up tp 120 bar (1740 psi) only in bi-directional release.
•Speed up to 4500 rpm.
•Flanges, shafts and ports for ISO, DIN and SAE standards.
•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 in 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.

TECHNICAL DATA

- 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

*Available on request

DEFINITION OF PRESSURES

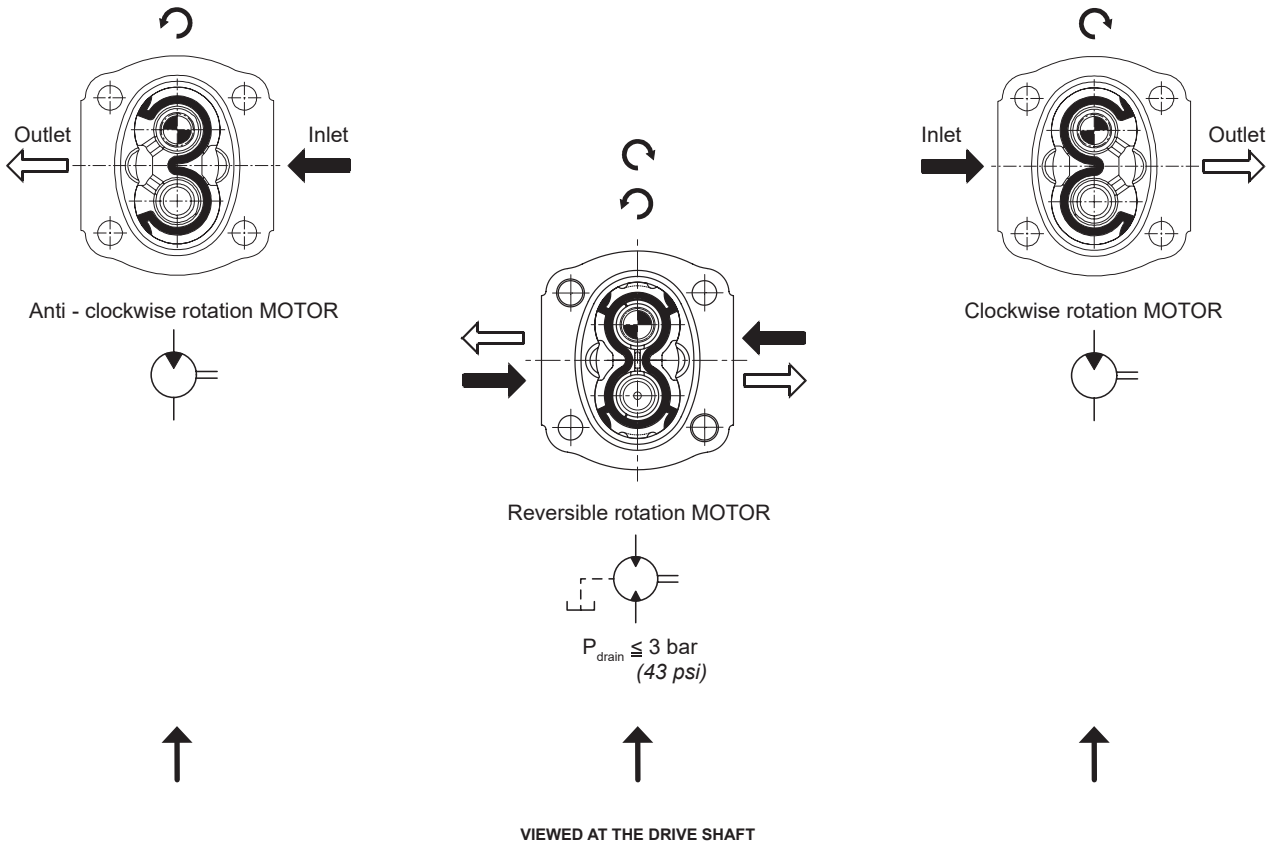


P_1 max. continuous pressure
P_2 starting pressure (depending on the application, this must be taken into consideration when setting the pressure of the hydraulic system’s pressure-relief valve).

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.

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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 β_x=75	15 µm	25 µm

FIRE RESISTENT FLUID

Type	Description	Max pressure	Max speed (rpm)	Temperature
HFB	Oil emulsion with 40% water	130 bar/*1880 psi*	2500	3°C+65°C
HFC	Water glycol	180 bar/*2600 psi*	1500	-20°C+65°C
HFD	Phosphate esters		1750	-10°C+80°C

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

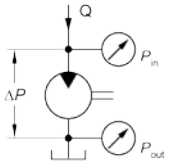
Input flow: $Q = \frac{V \cdot n}{231 \cdot \eta_v}$ [US gal/min]

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

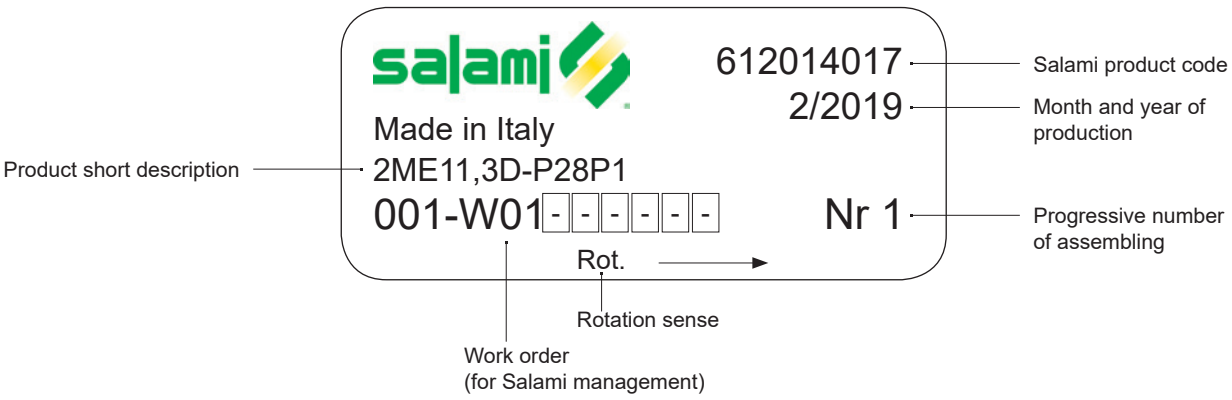
Output power: $P = \frac{M \cdot n}{63\,025} = \frac{Q \cdot \Delta p \cdot \eta_t}{1714}$ [hp]

LEGENDA

V	=	Displacement	cm³/rev [in³/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



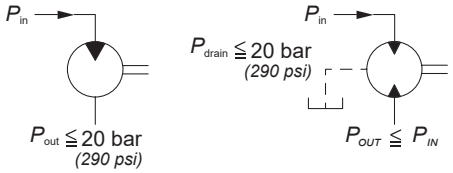
WORKING CONDITIONS

	Displacement		Max. continuous pressure P[1]		Max. starting pressure P[2]		Max. speed	Min. speed
GROUP 1.5 - E SERIES	cm³/rev	*cu.in/rev*	bar	*psi*	bar	*psi*	min⁻¹	
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	cm³/rev	*cu.in/rev*	bar	*psi*	bar	*psi*	min⁻¹	
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	25.8	*1.58*	180	*2610*	200	*2900*	2850	450

*Available for quantity

GROUP 2.5 - B SERIES	cm³/rev	*cu.in/rev*	bar	*psi*	bar	*psi*	min⁻¹	
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	cm³/rev	*cu.in/rev*	bar	*psi*	bar	*psi*	min⁻¹	
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.

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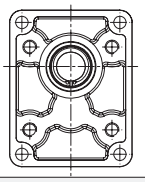
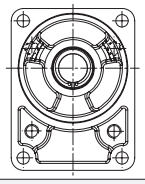
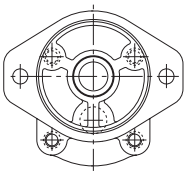
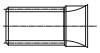
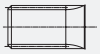
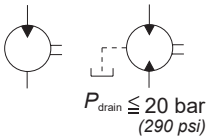
SHAFTS AND FLANGES COMBINATION

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.

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



GEAR MOTORS

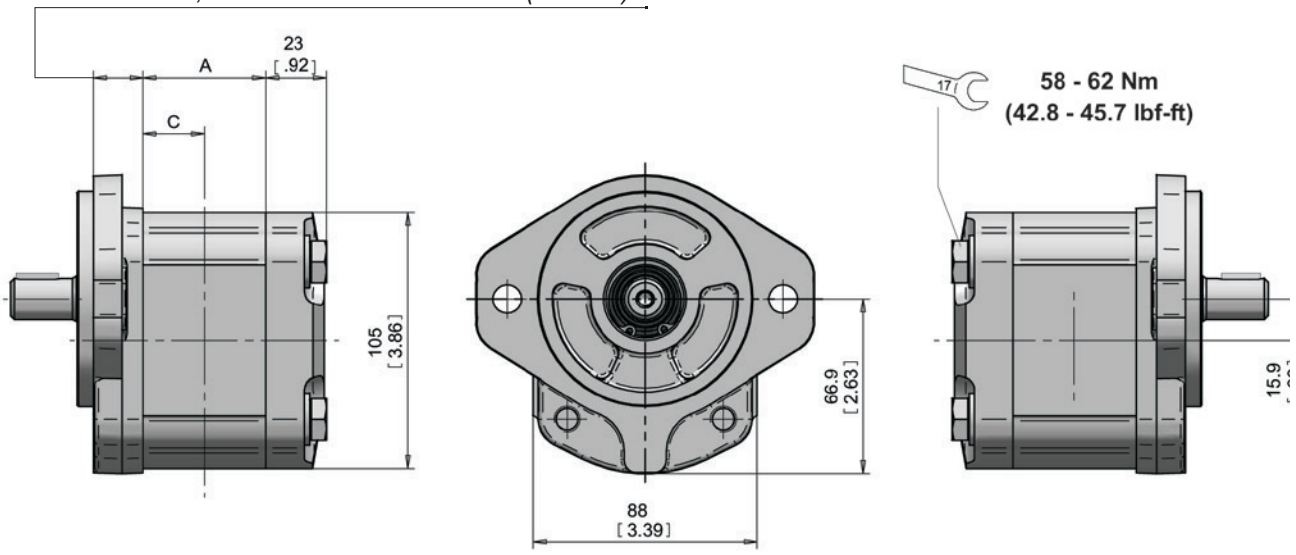
Displacements up to 25.8 cm³/rev
Pressure up to 280 bar

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 *cu.in./rev*		4.6 *0.27*	6.5 *0.40*	8.2 *0.50*	10.6 *0.65*	11.5 *0.68*	12.7 *0.77*	13.8 *0.84*	16.6 *1.01*	19.4 *1.15*	22.9 *1.37*	25.8 *1.58*
Dimension A	mm *in*		47.1 *1.83*	49.95 *1.97*	52.8 *2.07*	56.3 *2.22*	59.7 *2.35*		63.5 *2.5*	67.5 *2.65*	75.6 *2.97*	81 *3.19*	86.8 *3.42*
Dimension C	mm *in*		23.55 *0.93*	25 0.98	26.4 *1.04*	28.15 *1.11*	29.75 *1.17*		31.75 *1.25*	33.75 *1.33*	37.80 *1.49*	40.5 *1.59*	43.4 *1.71*
Max continuous pressure	P[1]	bar *psi*	250 *3625*	250 *3625*	250 *3625*	250 *3625*	250 *3625*	250 *3625*	250 *3625*	250 *3625*	220 *3190*	200 *2900*	180 *2610*
Max starting pressure	P[2]	bar *psi*	280 *4060*	280 *4060*	280 *4060*	280 *4060*	280 *4060*	280 *4060*	280 *4060*	280 *4060*	240 *3480*	220 *3190*	200 *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 *lbs*	3.10 *6.83*	3.50 *7.72*	3.60 *7.94*	3.70 *8.16*	3.75 *8.27*	3.78 *8.33*	3.86 *8.51*	4.00 *8.82*	4.18 *9.22*	4.29 *9.46*	4.54 *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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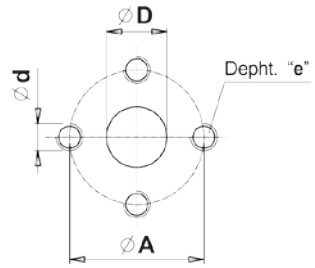
FLANGED AND THREADED PORTS



code P

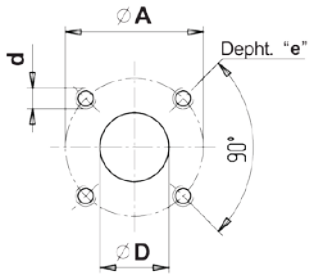
Flanged ports
european standard

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	OUTLET				INLET			
	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	



code B

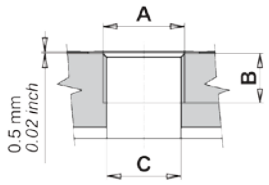
Flanged ports
german standard

UNI-DIRECTIONAL MOTORS

TYPE	OUTLET				INLET			
	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	OUTLET				INLET			
	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")*		



code G

Threaded ports
GAS (BSPP)

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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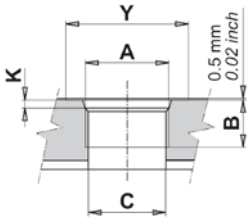


code R

Threaded ports
SAE (ODT)

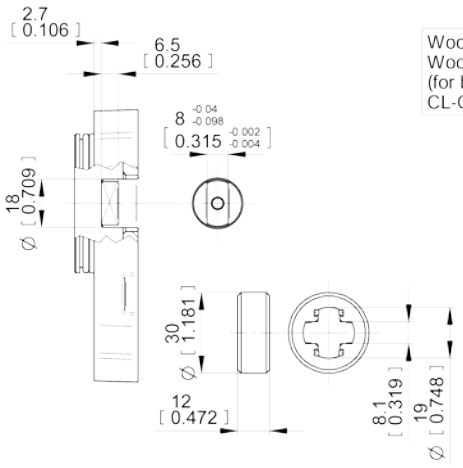
UNI-DIRECTIONAL MOTORS

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")*

BI-DIRECTIONAL MOTORS

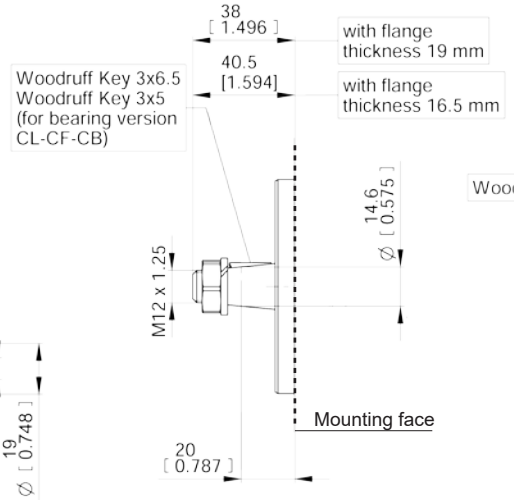
TYPE	OUTLET					INLET				
	A	B	C	Y	K	A	B	C	Y	K
From 4.5 to 16	7/8 - 14 UNF (SAE10)	14 *(0.54")*	13 *(0.51")*	34 *(1.32")*	2.5 *(0.10")*	7/8 - 14 UNF (SAE10)	14 *(0.54")*	13 *(0.51")*	34 *(1.32")*	2.5 *(0.10")*
From 19 to 26	1-1/16-12 UN (SAE 12)	16 *(0.62")*	20 *(0.78")*	41 *(1.61")*	3.3 *(0.12")*	1-1/16-12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

DRIVE SHAFTS



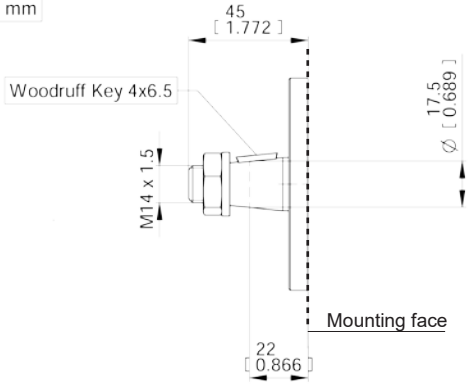
code 03 Max torque 72 Nm

Tang drive for electric motors
Without shaft seal



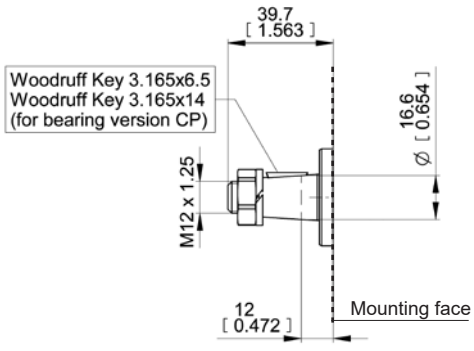
code 25 Max torque 130 Nm

Tapered 1:5



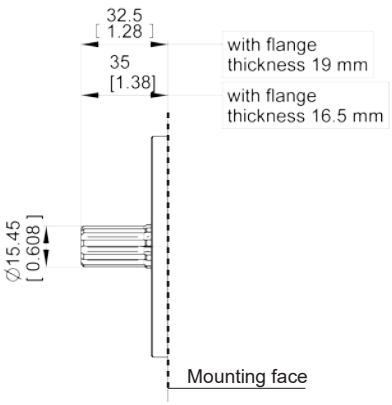
code 26 Max torque 100 Nm

Tapered 1:5 (only for CB)



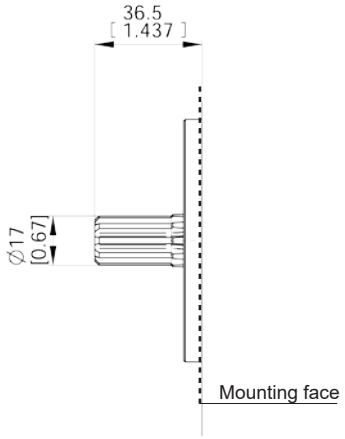
code 28 Max torque 130 Nm

Tapered 1:8



code 52 Max torque 100 Nm

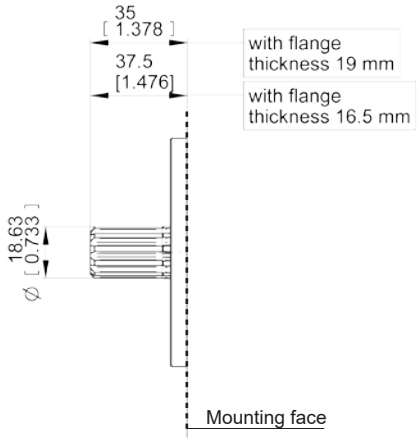
SAE A 9T-16/32DP Ansi B92 1a 1976



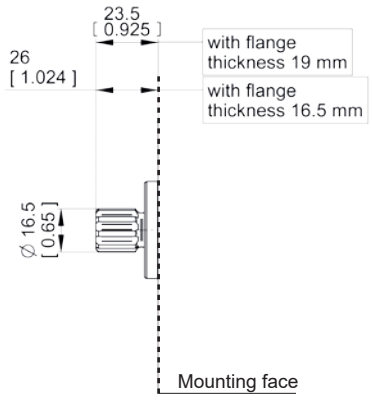
code 53 Max torque 125 Nm (1106 lbf in)

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

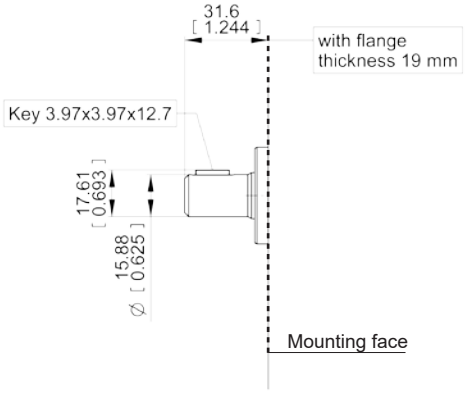
E0.120.0219.02.00IM04



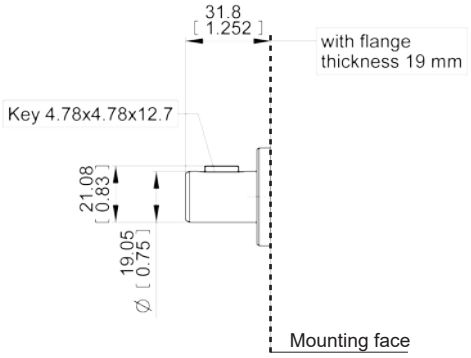
code 54	Max torque 150 Nm (1327 lbf in)
SAE A 11T-16/32DP Ansi B92 1a 1976	



code 62	Max torque 120 Nm (1062 lbf in)
9 teeth DIN 5482 splined	

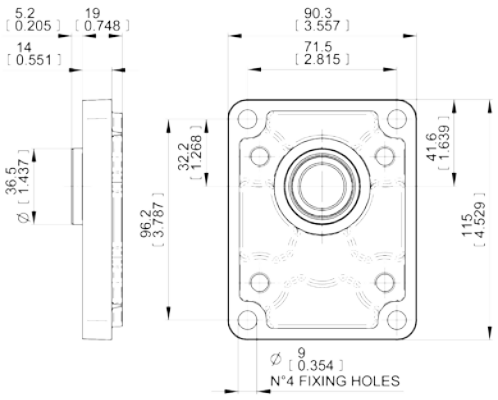


code 82	Max torque 70 Nm (620 lbf in)
5/8” SAE A parallel	

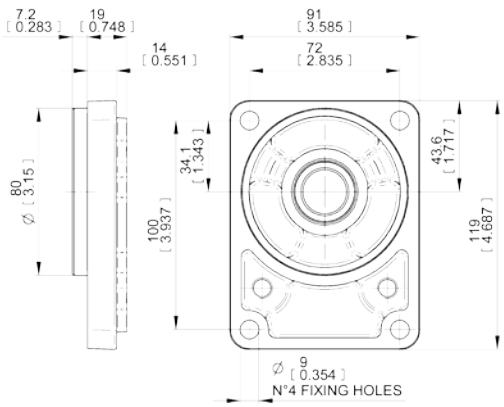


code 85	Max torque 130 Nm (1151 lbf in)
3/4” SAE A parallel	

MOUNTING FLANGES



P1	European standard
With shaft code 28-62-82	



B1	German standard
With shaft code 25-62	

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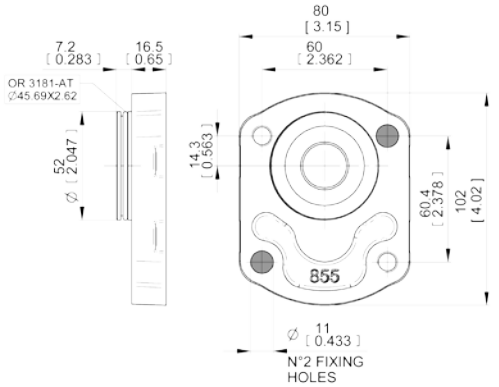
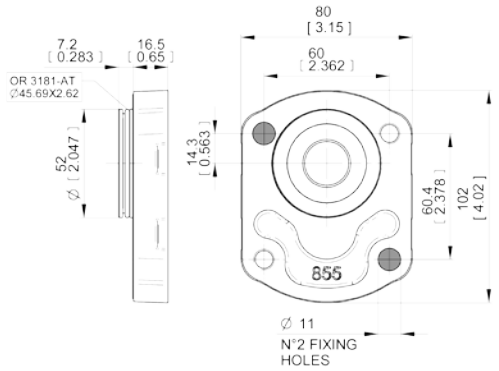
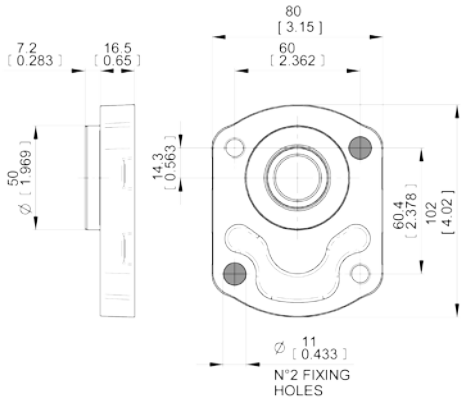


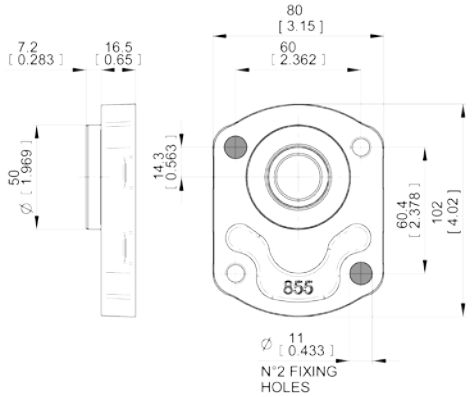
B2	German standard
With shaft code 03	



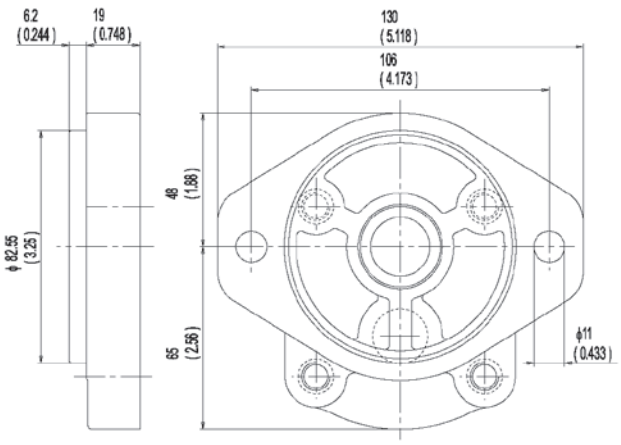
B3	German standard
With shaft code 03	



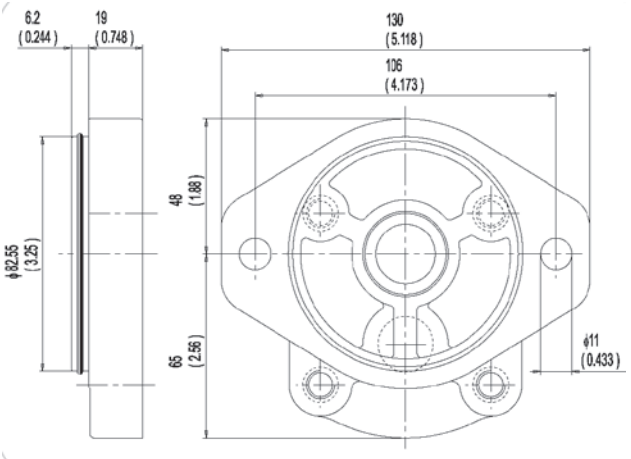
B4	German standard mounting flange
With shaft code 25-62	



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	

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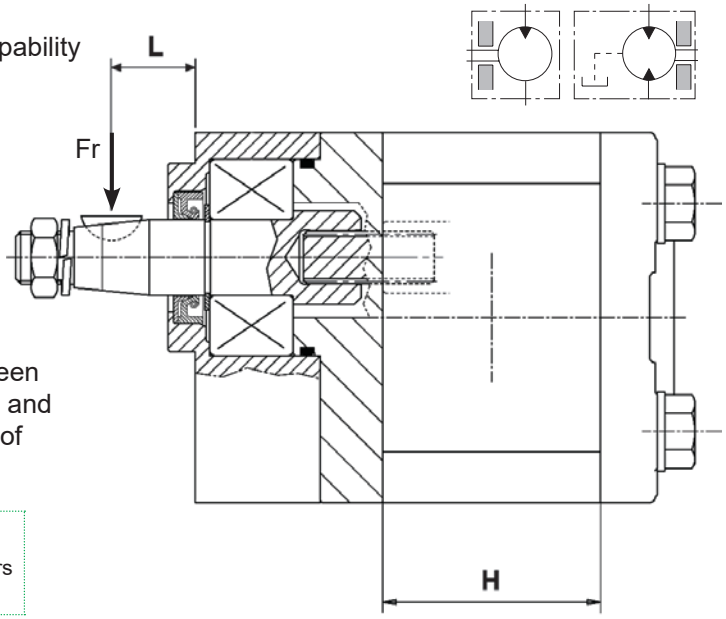
OUTRIGGER BEARING

The following diagrams show radial load capability of the bearing.
Calculation according to ISO 281 at 10 cSt.

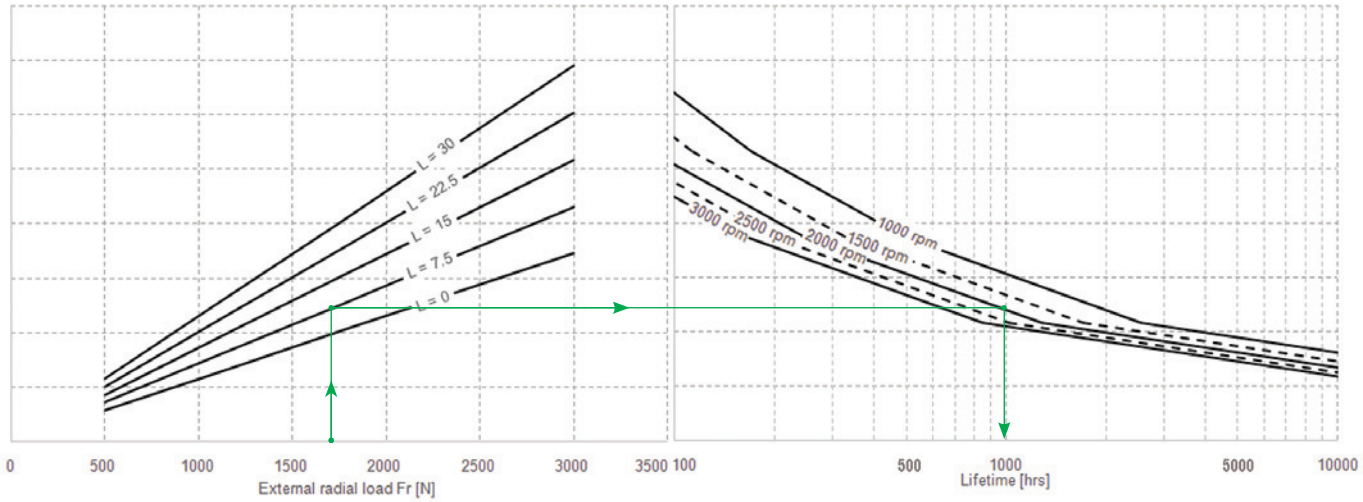
TYPE	H
4.5	47.1 (1.83”)
6.5	49.95 (1.97”)
8.3	52.8 (2.08”)
10.5	56.3 (2.22”)
11.3-12.5	59.7 (2.35”)
13.8	63.5 (2.5”)
16	67.5 (2.66”)
19	75.6 (2.97”)
22.5	81 (3.19”)
26	86.6 (3.42”)



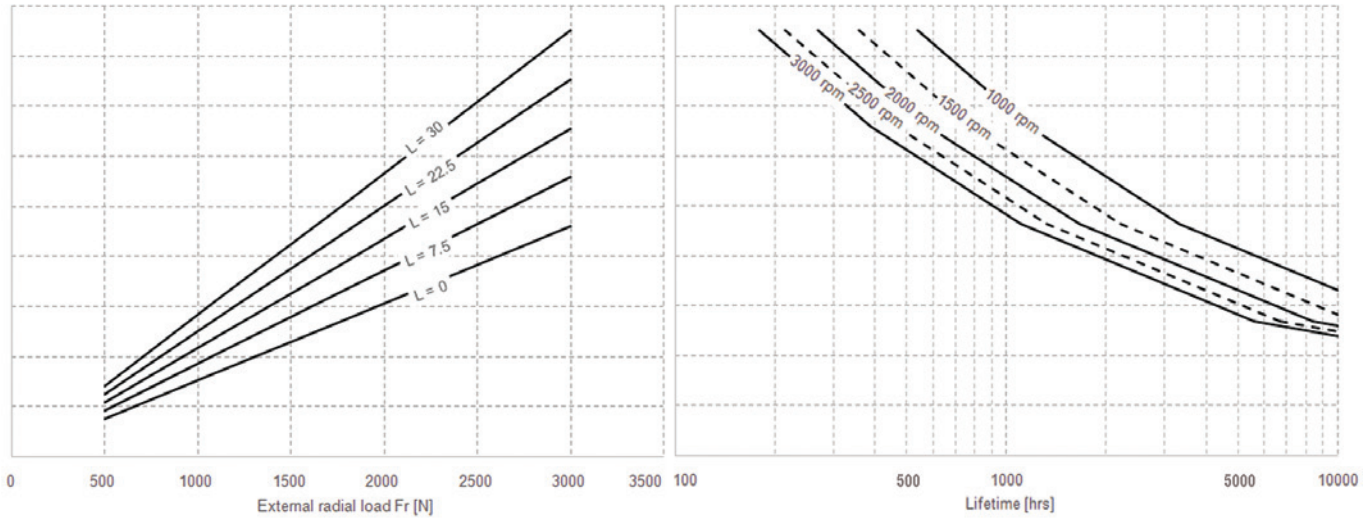
L=Distance between mounting flange and radial force point of application.

Example:
Fr = 1700 N
L = 7.5
Speed = 2000 rpm
→ Expected life: 1000 hrs

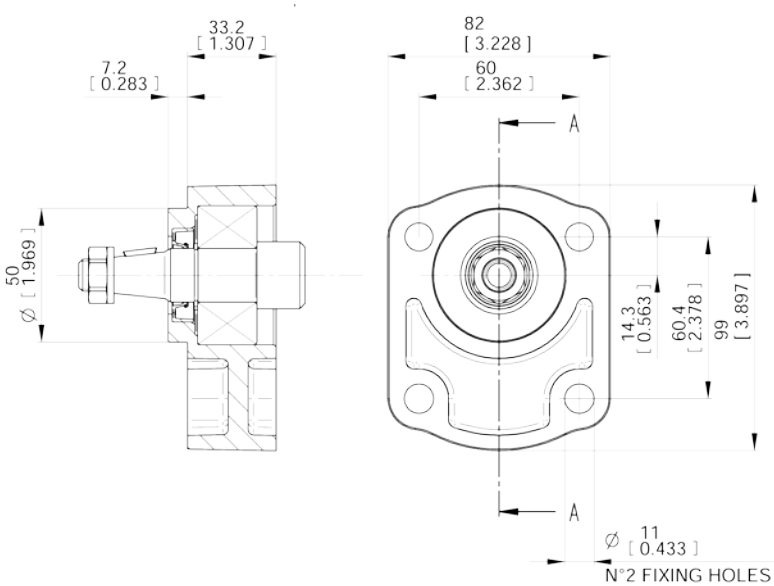
For Code CP-CB-CL-CS



For Code CF

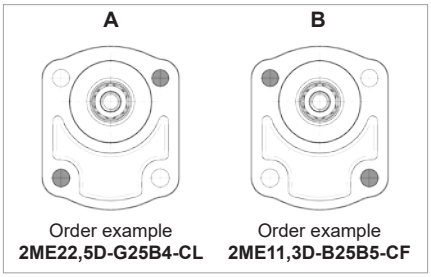


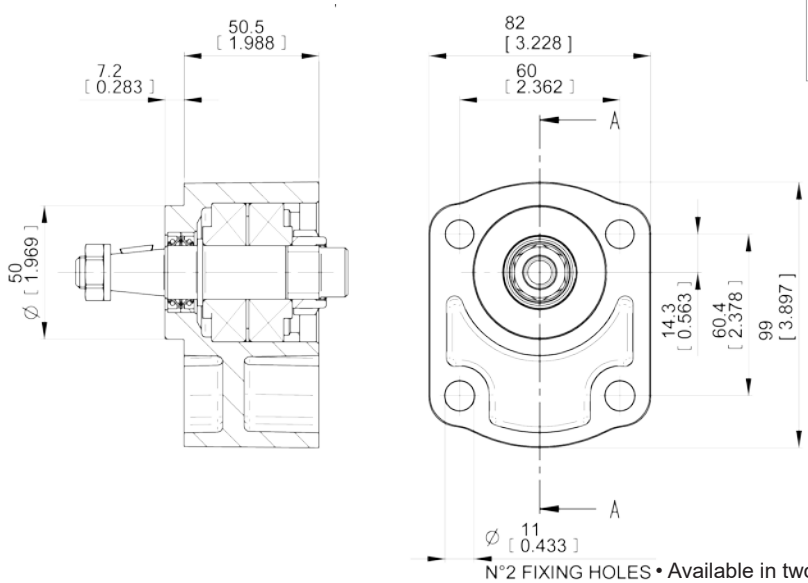
ALUMINIUM MOUNTING FLANGES WITH BEARING



N°2 FIXING HOLES • Available in two positions: A - B

CL	For engine endothermic motors
With shaft code 25, 26 (see page 156)	

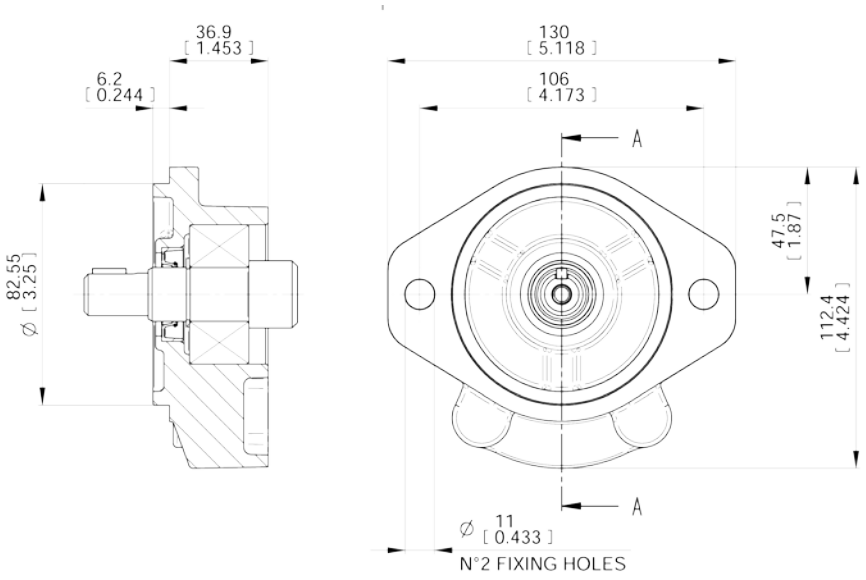




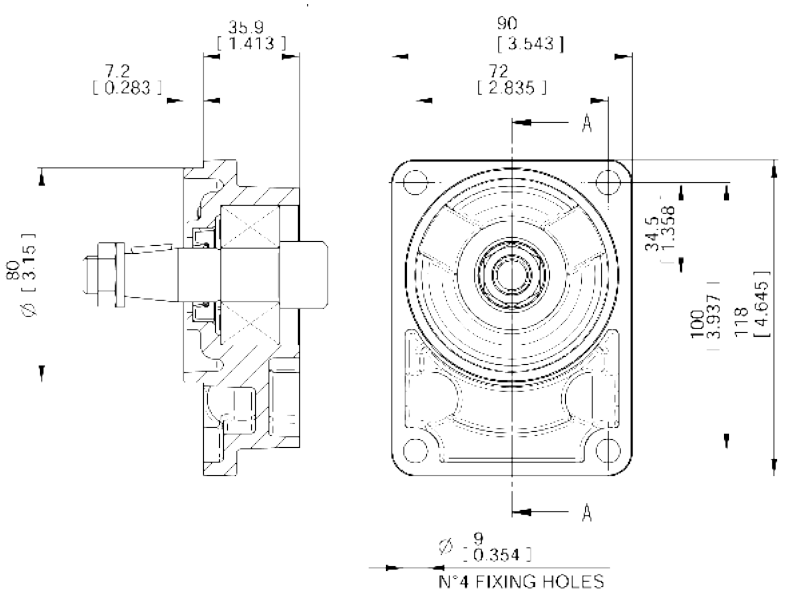
N°2 FIXING HOLES • Available in two positions: A - B

CF	For endothermic motors
With shaft code 25-26 (see page 156)	

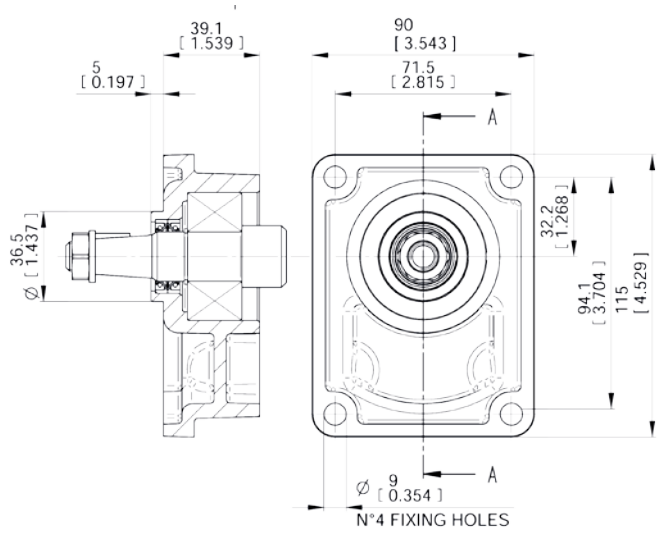
E0.120.0219.02.00IM04



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

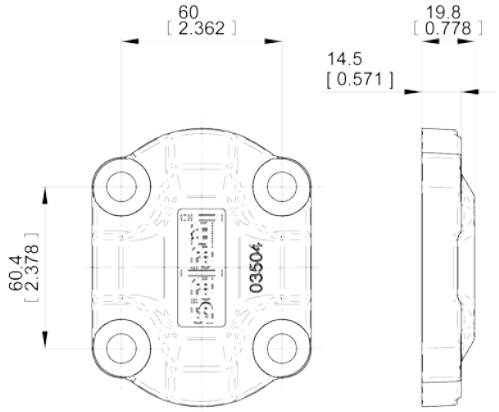


CB	German standard
With shaft code 25-26 (see page 156)	

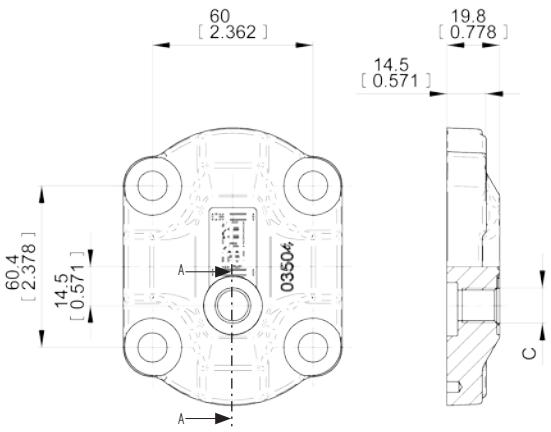


CP	European standard
With shaft code 28	

REAR COVERS

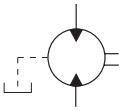


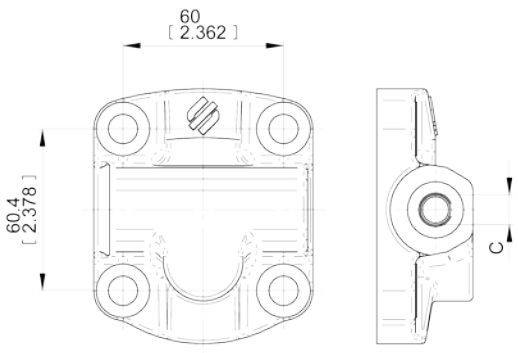
STANDARD REAR COVER



STANDARD REAR COVER WITH EXTERNAL DRAIN C
FOR BIDIRECTIONAL MOTORS

code LD





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

REAR COVER WITH LATERAL DRAIN

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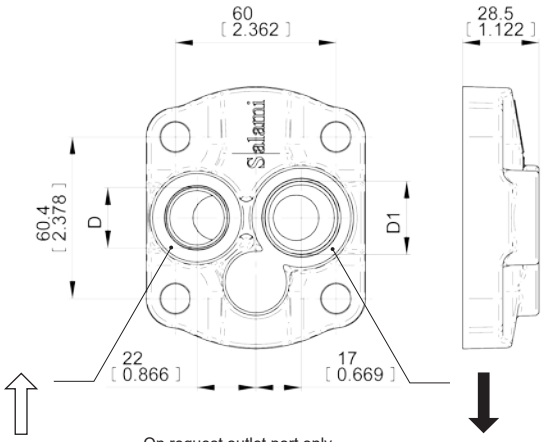
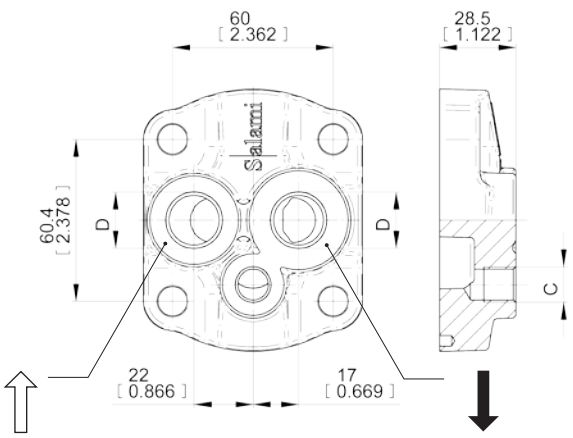
code 1 REAR COVER WITH REAR PORTS



On request outlet port only.

D	D1
7/8-14 UNF-2B (SAE10)	1-1/16-12 UN-2B (SAE12)
G1/2	G3/4

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

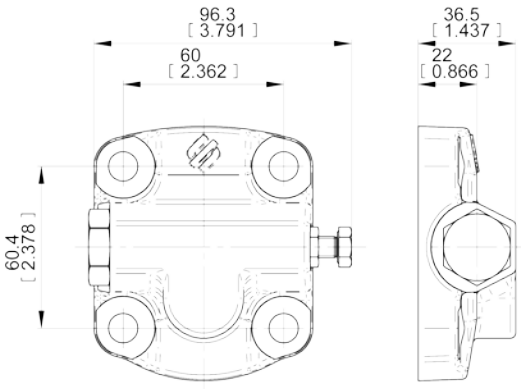


D	C
M18x1.5	G1/4
7/8-14 UNF-2B (SAE10)	7/16-20 UNF-2B (SAE4)
G1/2	G1/4

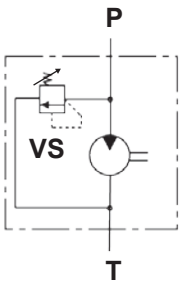
For rear ports if requested please advise type using.
For motors with threaded rear ports until 22 l/min delivery note.

REAR COVERS WITH VALVE

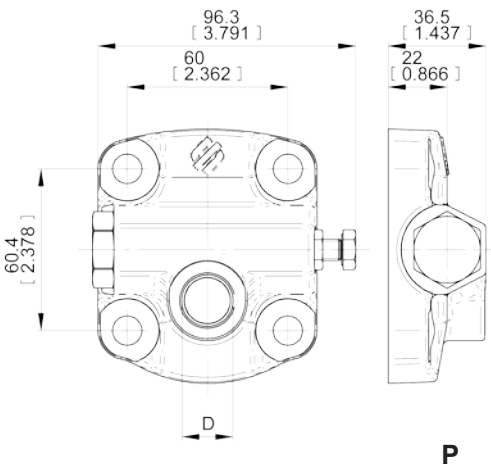
code VS INTERNAL DISCHARGE



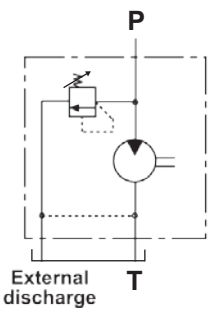
MAIN RELIEF VALVE setting ranges
30-60 bar
61-120 bar
121-170 bar
171-250 bar



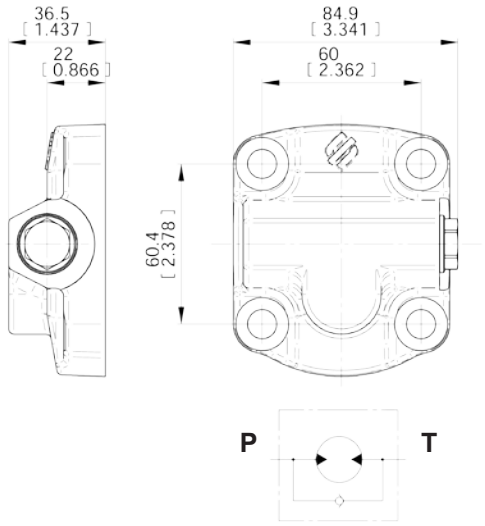
code VSE EXTERNAL DISCHARGE



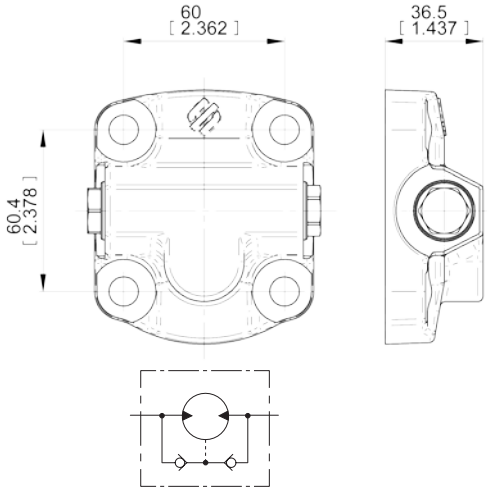
D (external discharge)
M18x1.5 (METRIC)
3/4-16 UNF-2B (SAE 8)
G3/8 (BSPP)



code VR ANTI-CAVITATION VALVE



code IDV REAR COVERS WITH INTERNAL DRAIN



VENTING VALVE FOR DOUBLE STEP OF SPEED

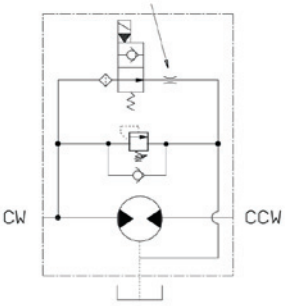
code EPV

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

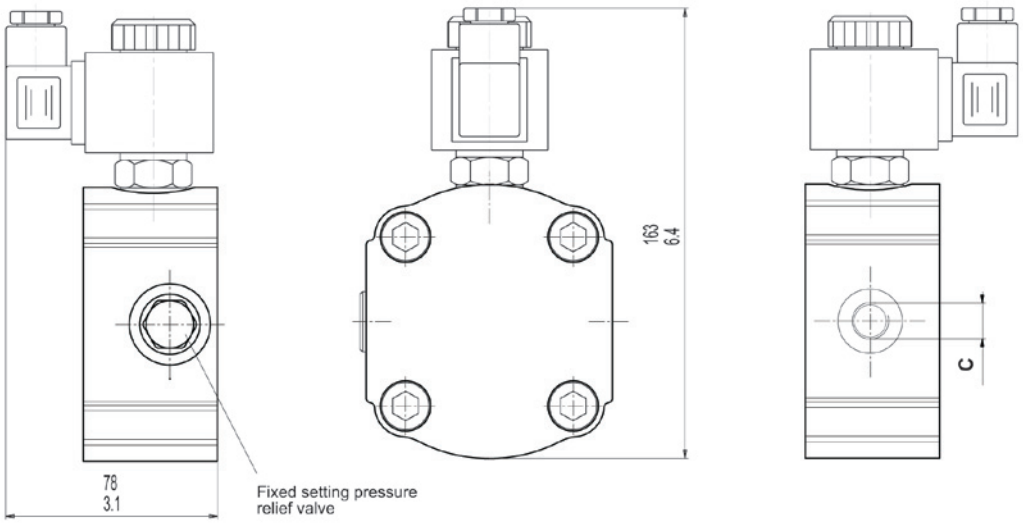
With this valve, we are able to fix a first step of speed (thanks to a calibrated orifice) when the electric venting valve is normally opened.
Energizing the valve you will have the full speed, in addition an overload and anti-cavitation valve protects the motor from peak of pressure and from reverse 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



CONNECTOR DIN 43650 A/ISO 4400

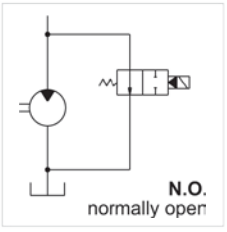


E0.120.0219.02.00IM04

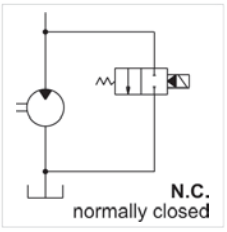
ELECTRIC UNLOADING VALVE

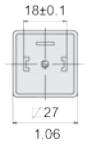
code EV

EV1 - 12 Vcc
EV2 - 24 Vcc

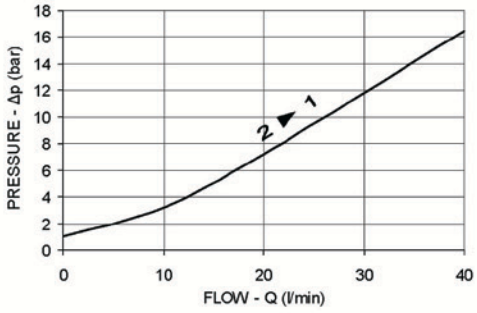


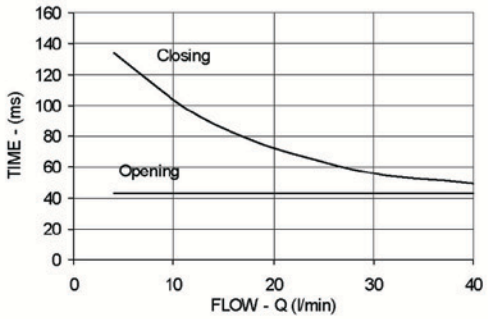
EV3 - 12 Vcc
EV4 - 24 Vcc

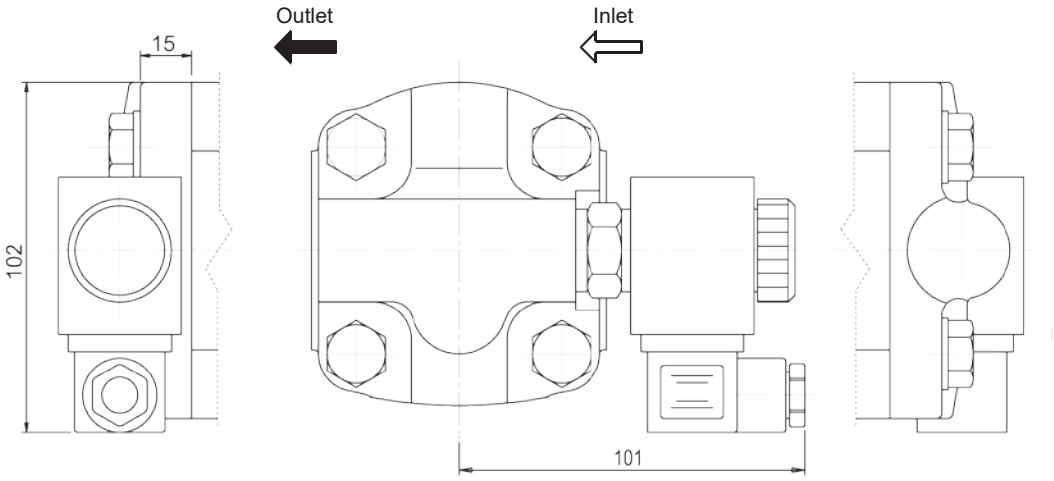




CONNECTOR
DIN 43650
A/ISO 4400



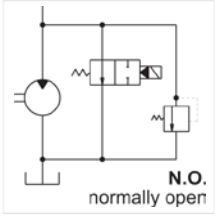




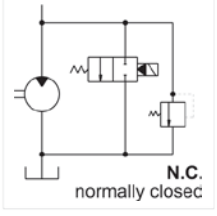
Cover with built-in relief and electric unloading valve

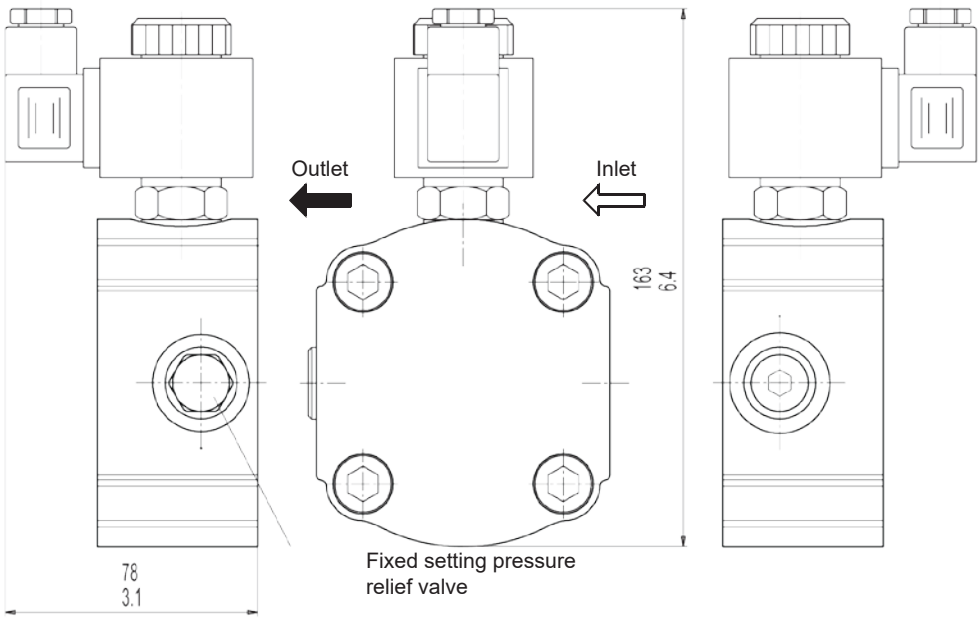
code EVS

EVS1 - 12 Vcc
EVS2 - 24 Vcc



EVS3 - 12 Vcc
EVS4 - 24 Vcc

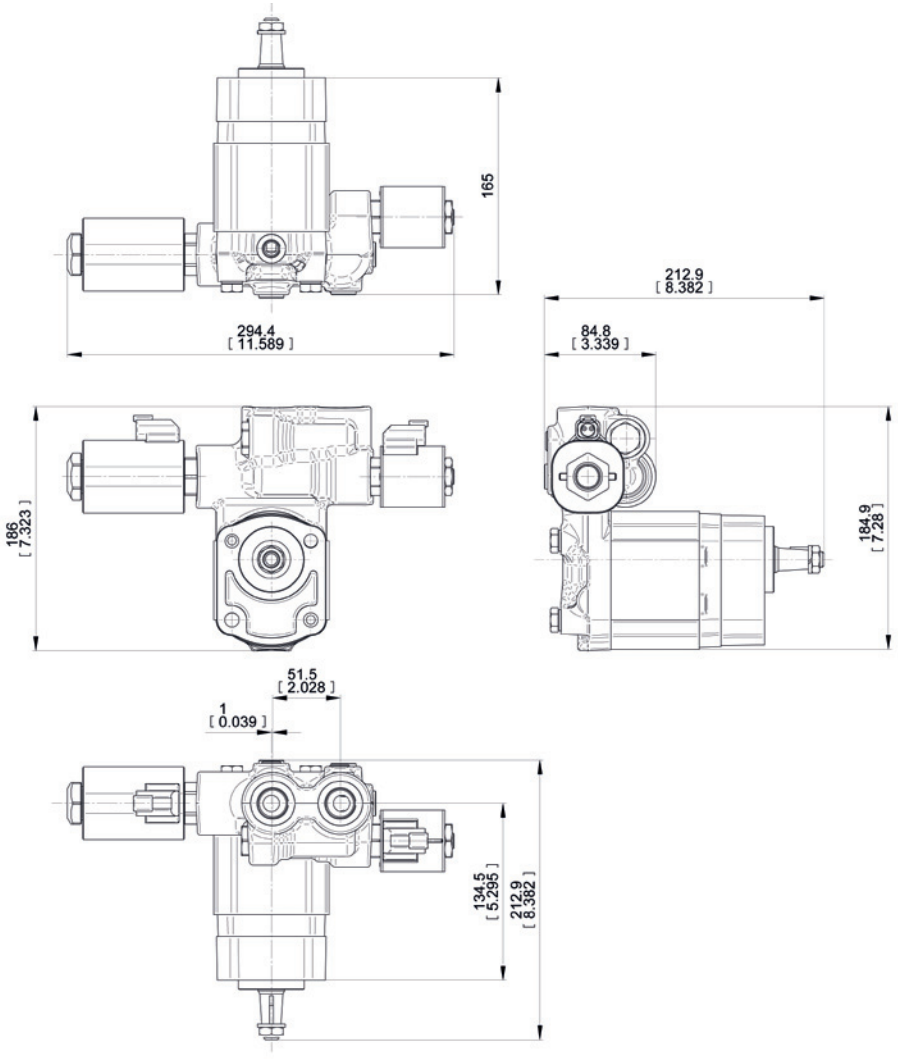




E0.120.0219.02.00IM04

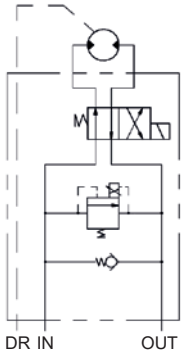
FAN DRIVE

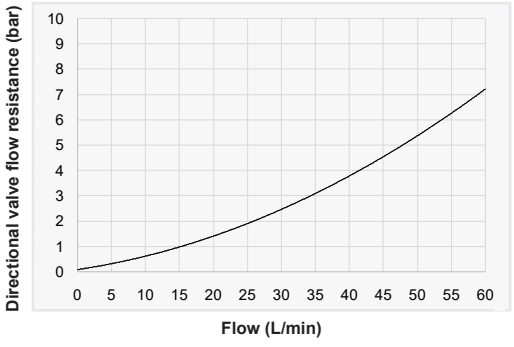
Integrated manifold designed for fan drive systems with group 2 motors. The directional 4/2 electric valve and the proportional relief valve make the temperature regulation precise and the cooler’s declogging efficient. Reduced dimensions, low weight and high pressure level are obtained thanks to a finite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

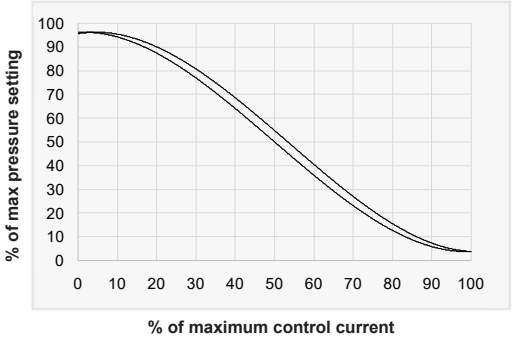


General Constructive Features

- 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.



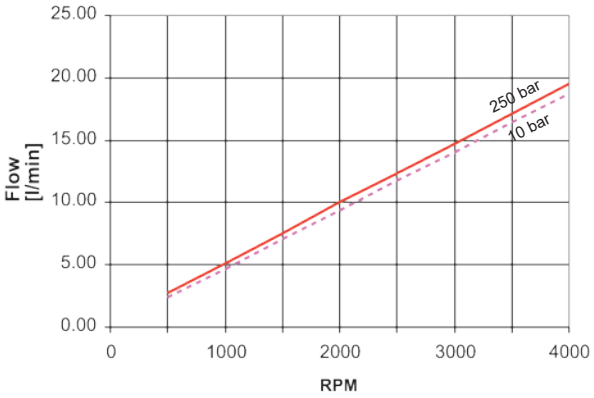


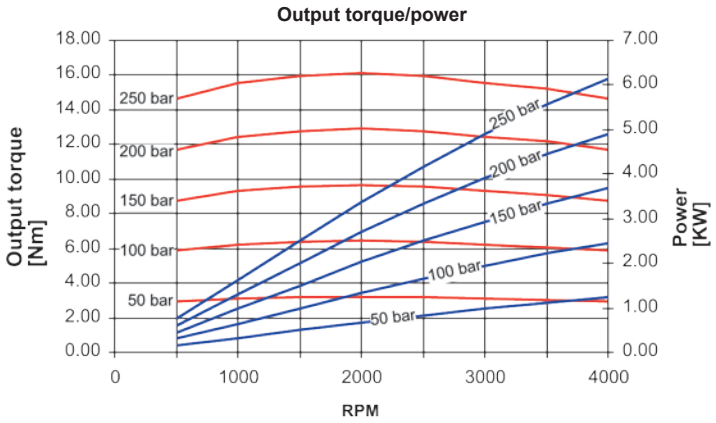


E0.120.0219.02.00IM04

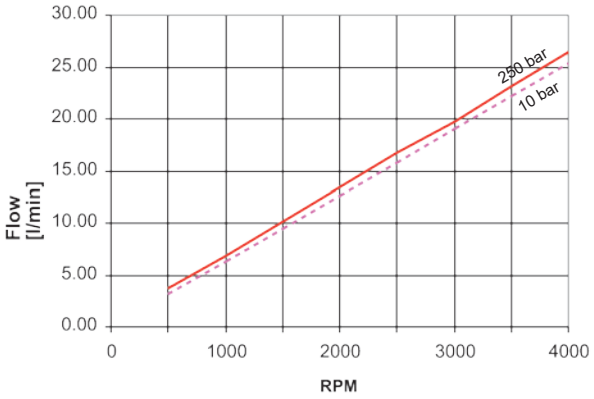
PERFORMANCE CURVES

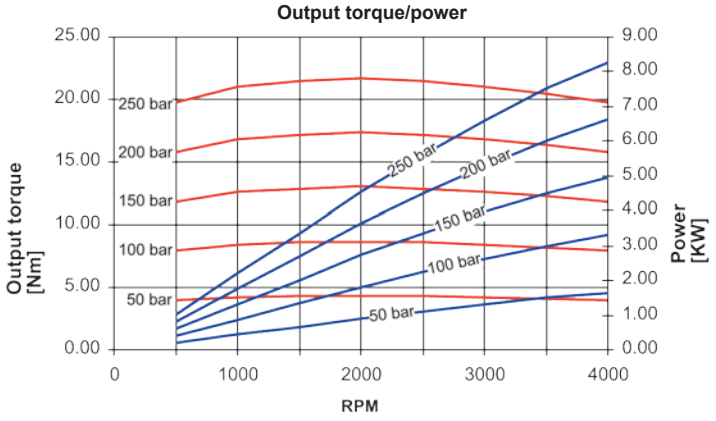
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C



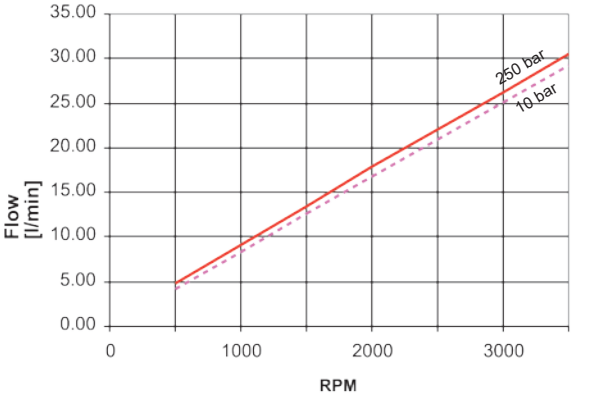


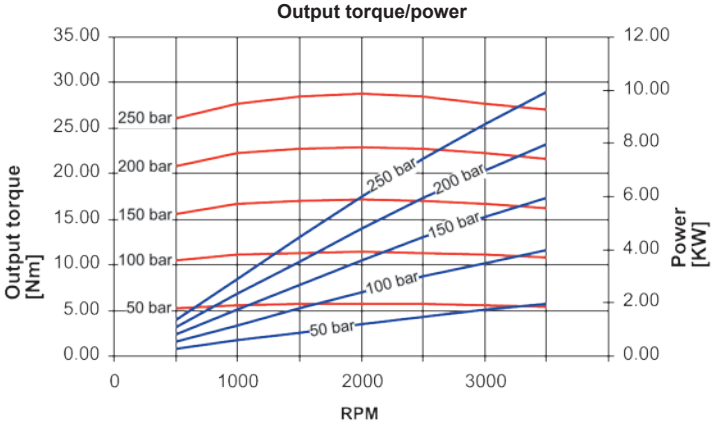
2ME - 4.5





2ME - 6.5

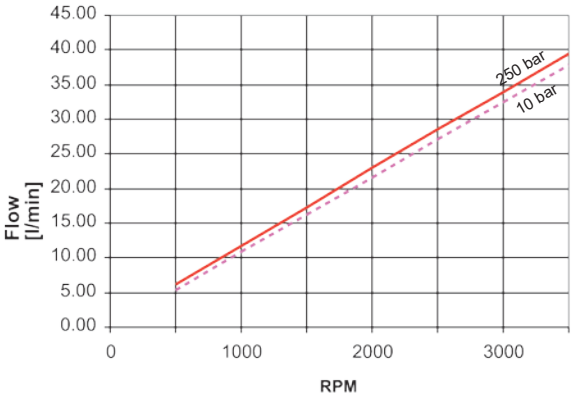


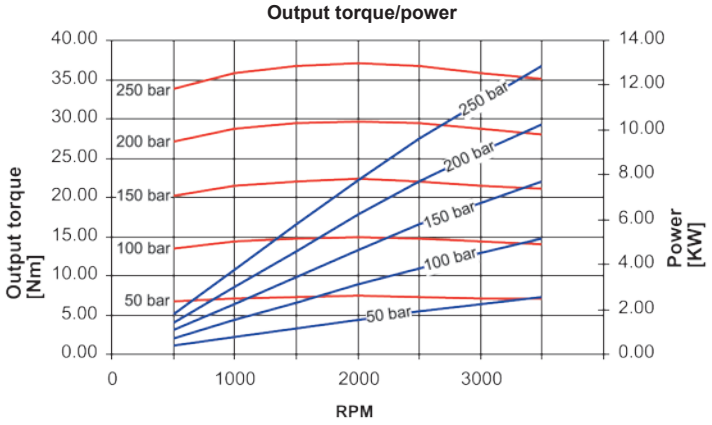


2ME - 8.3

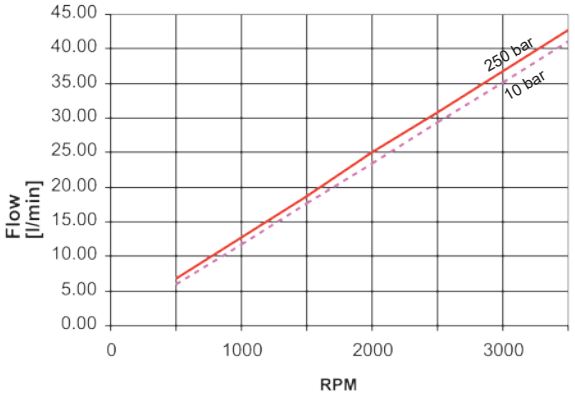
PERFORMANCE CURVES

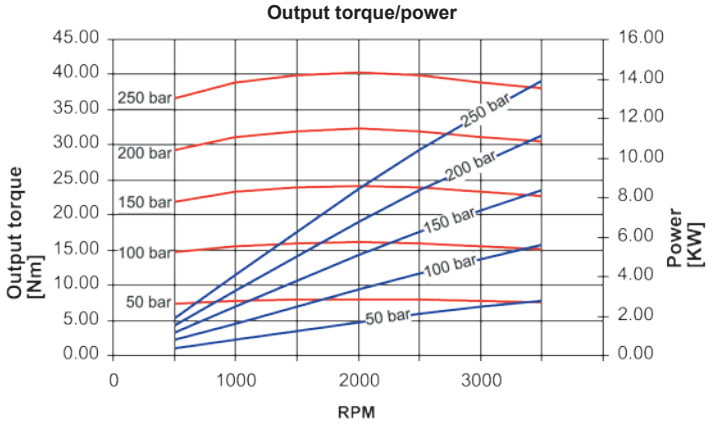
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C



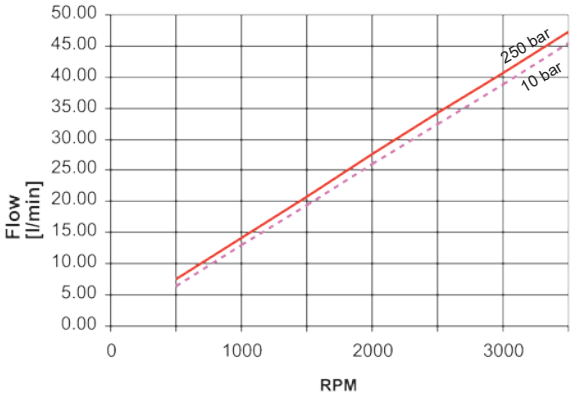


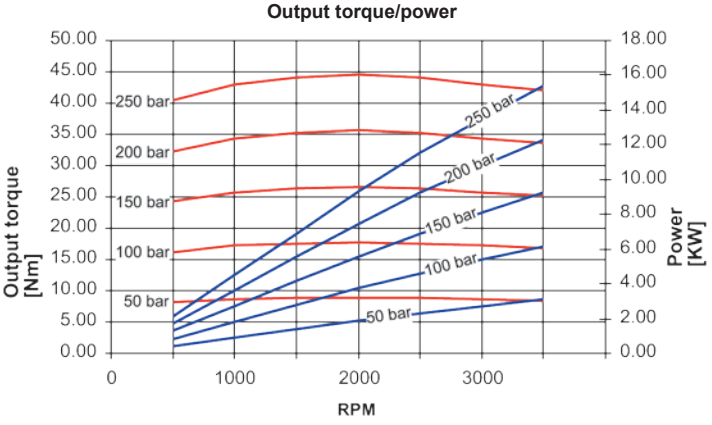
2ME - 10.5





2ME - 11.3



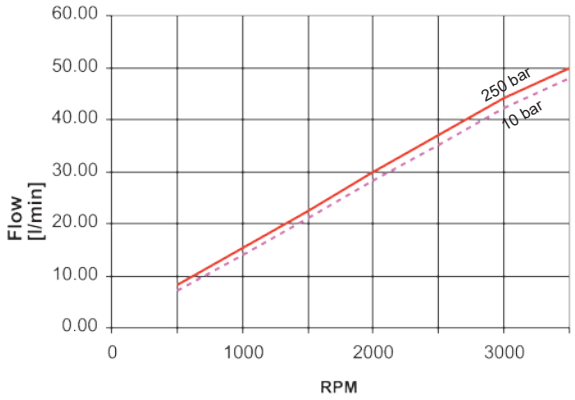


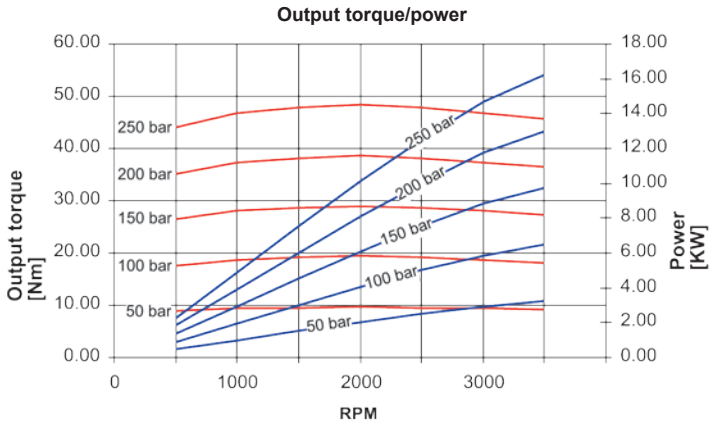
2ME - 12.5

E0.120.0219.02.00IM04

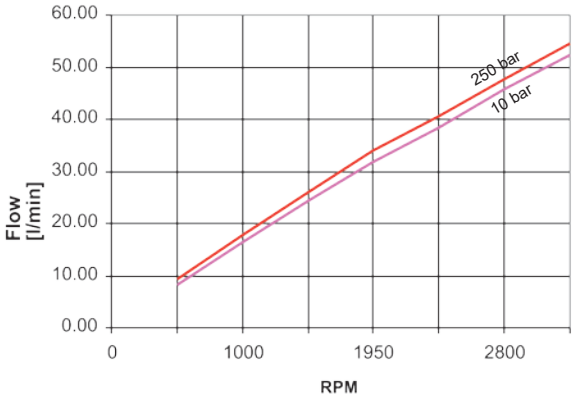
PERFORMANCE CURVES

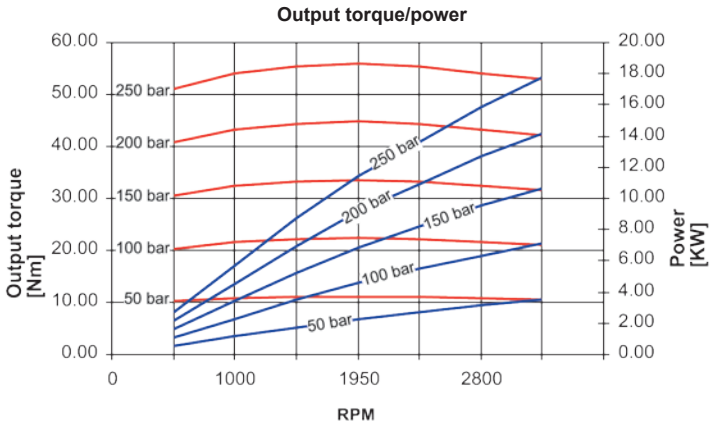
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C



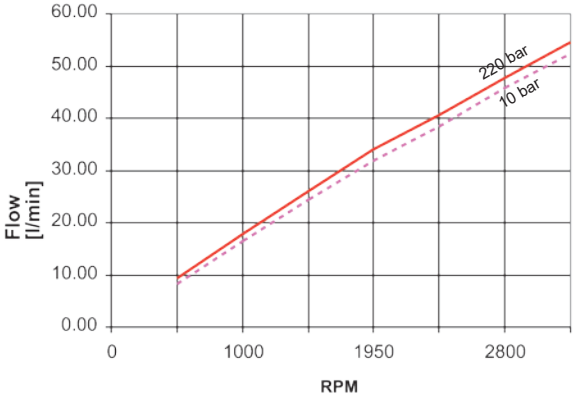


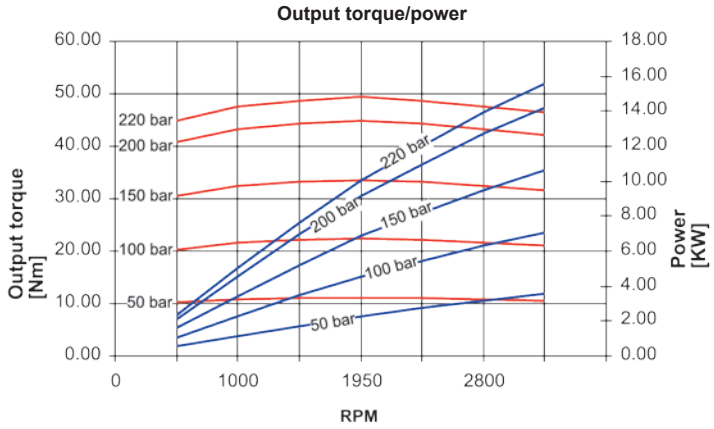
2ME - 13.8





2ME - 16



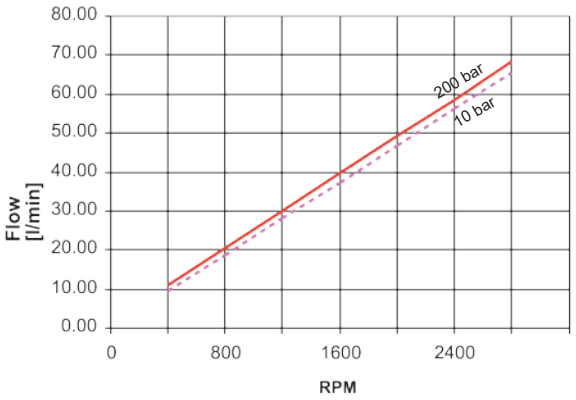


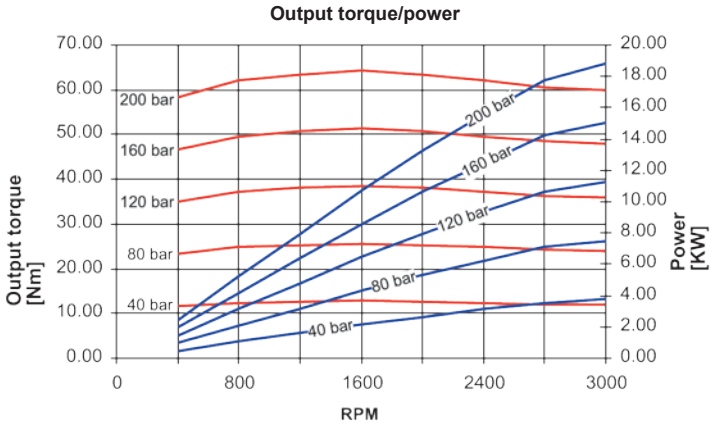
2ME - 19

E0.120.0219.02.00IM04

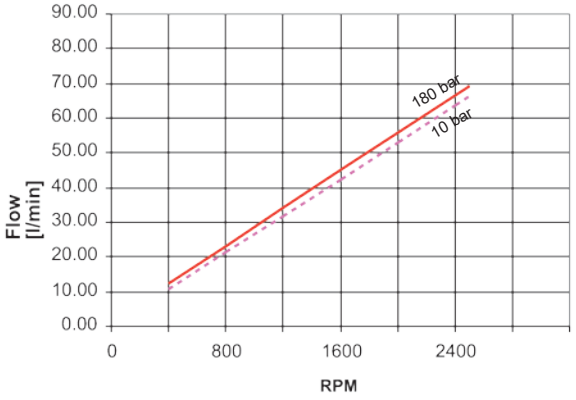
PERFORMANCE CURVES

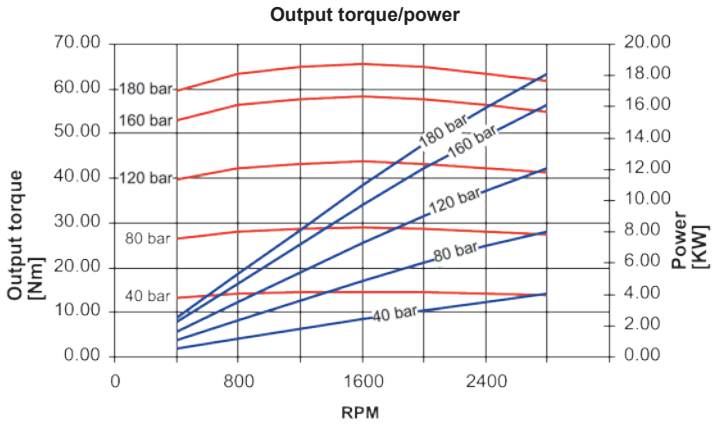
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C





2ME - 22.5





2ME - 26

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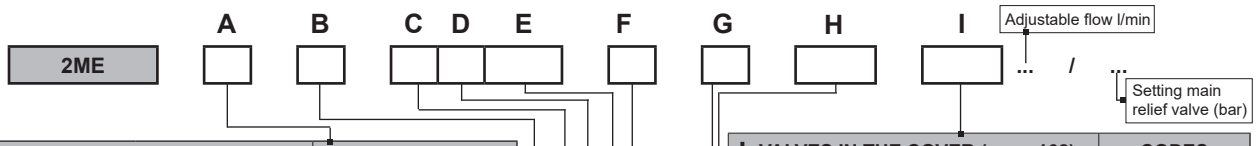
SINGLE MOTORS



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)	B CODES
Clockwise	D
Anti-clockwise	S
Reversible	R

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

DRIVE SHAFT (page 156)	D CODES
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

I 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

H 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

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

F SEAL	CODE
Buna standard	
Viton	V

E 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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