
2ME

Aluminium gear motors

Technical Catalogue

E0.120.0416.02.00IM02



GEAR MOTORS

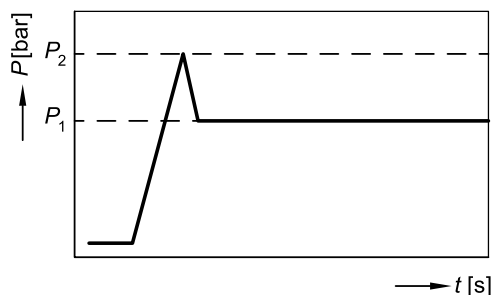
- Displacements from 2.8 cm³/rev to 73.4 cm³/rev (from 0.17 cu.in./rev to 4.48 cu.in./rev).
- Rated pressure up to 250 bar (3625psi).
- Back pressure capability up to 120 bar (1740 psi) only in bi-directional release.
- Speed up to 4500 rpm.
- Flanges, shafts and ports for ISO, DIN and SAE standards.
- 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 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.

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	-25 to 85 °C
- Fluid operating temperature range with FPM seals	-20 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).

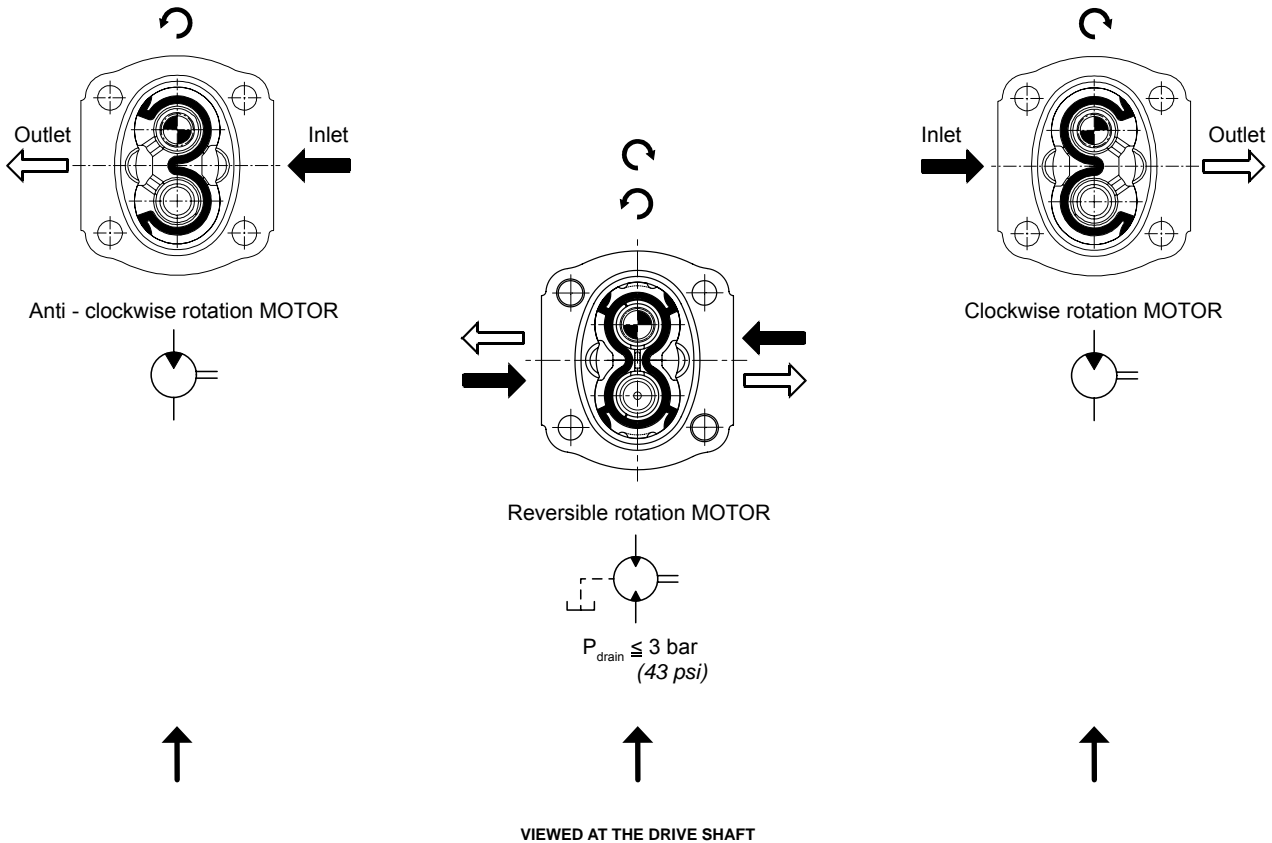
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DRIVE SHAFTS

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.



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

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

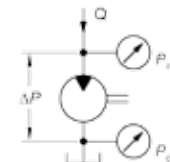
Input flow: $Q = \frac{V \cdot n}{231 \cdot \eta_v}$ [US gal/min]

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



Made in Italy

613011042

3PE55D -R55S3-POMPA

WO0132803 013 2013/09

Salami part number _____
Product short description _____

↑
Rotation sense

Product code (for Salami management) _____

Month and year of made

Number of assembling

EO.100.0416.02.001M00



WORKING CONDITIONS

	Displacement		Max. continuous pressure P ¹		Max. starting pressure P ²		Max. speed	Min. speed
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi		
GROUP 1.5 - E SERIES							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

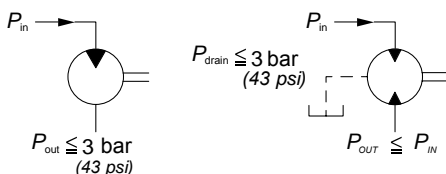
	Displacement		Max. continuous pressure P ¹		Max. starting pressure P ²		Max. speed	Min. speed
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi		
GROUP 2 - E SERIES							min ⁻¹	
2ME - 4.5	4.6	0.27	250	3625	280	4060	4000	600
2ME - 6.5	6.5	0.4	250	3625	280	4060	4000	600
2ME - 8.3	8.2	0.5	250	3625	280	4060	3600	500
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	3140	240	3480	3200	450
2ME - 22.5	22.9	1.37	200	2900	220	3140	3000	450
2ME - 26	25.8	1.58	180	2610	200	2900	2850	450

*Available for quantity

	Displacement		Max. continuous pressure P ¹		Max. starting pressure P ²		Max. speed	Min. speed
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi		
GROUP 2.5 - B SERIES							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	3140	2750	400
2.5MB - 44	44.2	2.69	170	2465	190	2755	2500	400

	Displacement		Max. continuous pressure P ¹		Max. starting pressure P ²		Max. speed	Min. speed
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi		
GROUP 3 - E SERIES							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	3140	240	3480	2500	400
3ME - 65	63.1	3.85	200	2900	220	3140	2500	400
3ME - 75*	73.4	4.48	180	2610	200	2900	2500	400

*Available for quantity



The values shown in the picture represents the standard working situation.
Max drain pressure is influenced by rotational speed of the unit.
For pressure higher than 3 bar please contact sales department.
On request available shaft seal for high P drain (20 bar).

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Final revised edition-April 2016

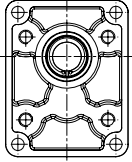
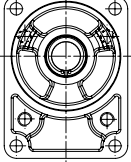
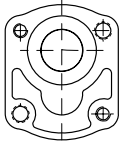
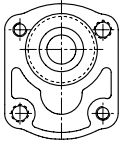
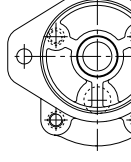








The data in this catalogue refers to the standard product.

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 get in touch with our sales department.



SHAFTS AND FLANGES COMBINATION

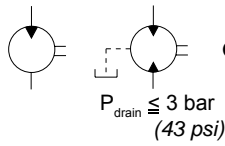
2ME					
	CODE P1 European standard	CODE B1 German standard	CODE B2-B3 German standard	CODE B4-B5 German standard	CODE S2-S6 SAE A 2 Bolts
 CODE 25 - Tapered 1:5		25B1		25B4 25B5	
 CODE 28 - Tapered 1:8	28P1				
 CODE 62 - DIN 5482 splined 9T	62P1	62B1	62B2 62B3	62B4 62B5	
 CODE 03 - Tang drive for electric 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.

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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

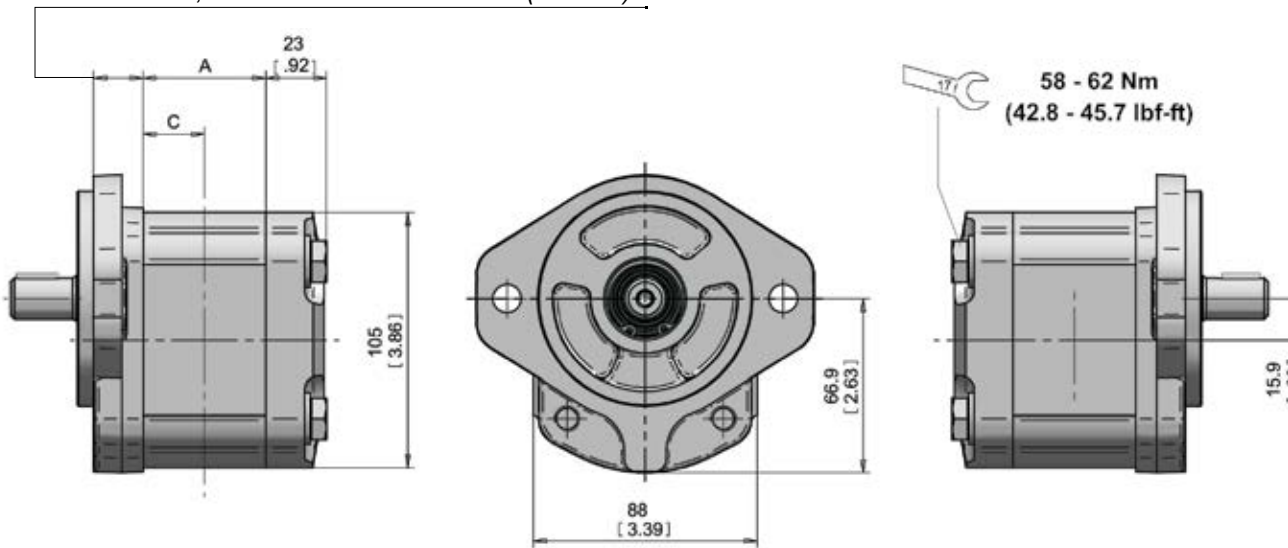
Type		4.5	6.5	8.3	10.5*	11.3	12.5*	13.8	16	19	22.5	26
Displacement	cm³/rev	4.6	6.5	8.2	10.6	11.5	12.7	13.8	16.6	19.4	22.9	25.8
	cu.in./rev	0.27	0.40	0.50	0.65	0.68	0.77	0.84	1.01	1.15	1.37	1.58
Dimension A	mm	47.1	49.95	52.8	56.3	59.7		63.5	67.5	75.6	81	86.8
	in	1.83	1.97	2.07	2.22	2.35		2.5	2.65	2.97	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
Weight	kg	2.1		2.13	2.25	2.37		2.4	2.5	2.8	2.95	3.1
	lbs	4.6		4.7	5.0	5.2		5.3	5.5	6.2	6.5	6.8

*Available for quantity

For flanges code:

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

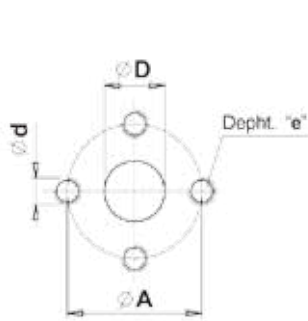
B2-B3-B4-B5, this dimension is 16.5 mm (0.65 in.)



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FLANGED AND THREADED PORTS



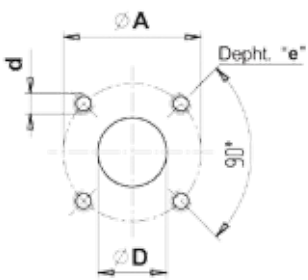
code P

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	



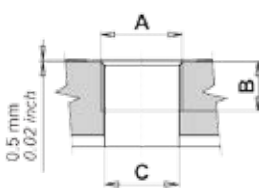
code B

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)

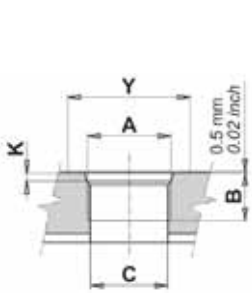
UNI-DIRECTIONAL MOTORS	TYPE	OUTLET			INLET		
		A	B	C	A	B	C
	From 4.5 to 26	G3/4	16 (0.62")	20 (0.78")	G1/2	14 (0.54")	13 (0.51")



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")

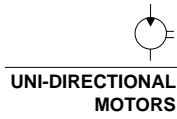
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code R

Threaded ports
SAE (ODT)



UNI-DIRECTIONAL
MOTORS

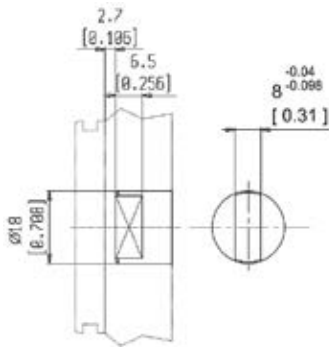
TYPE	OUTLET					INLET				
	A	B	C	Y	K	A	B	C	Y	K
From 4.5 to 26	1-1/16-12 UN (SAE 12)	16 (0.62")	20 (0.78")	41 (1.61")	3.3 (0.12")	7/8 - 14 UNF (SAE10)	14 (0.54")	13 (0.51")	34 (1.32")	2.5 (0.10")



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")

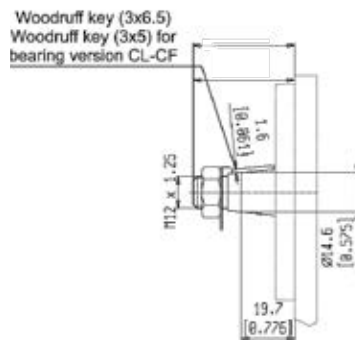
DRIVE SHAFTS



code 03

Max torque 72 Nm

Tang drive for electric motors
Without shaft seal



code 25

Max torque 130 Nm

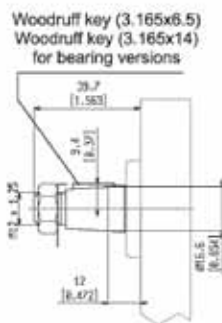
Tapered 1:5



code 26

Max torque 100 Nm

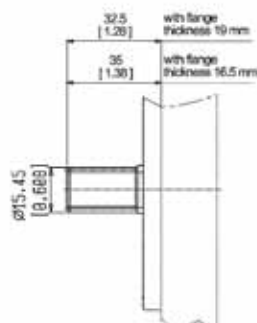
Tapered 1:5 (only for CB)



code 28

Max torque 130 Nm

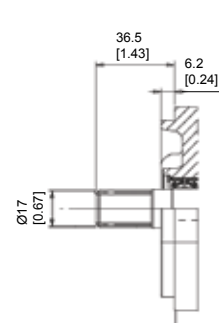
Tapered 1:8



code 52

Max torque 100 Nm

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



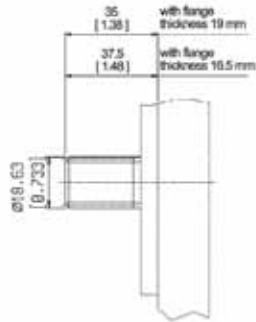
code 53

Max torque 125 Nm (1106 lbf in)

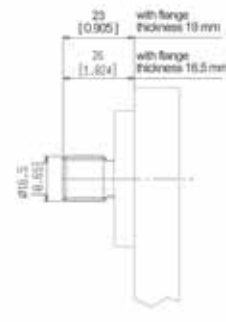
SAE 10T-16/32DP Ansi B92 1a 1976

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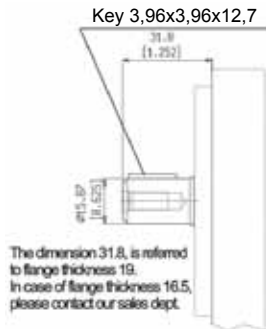




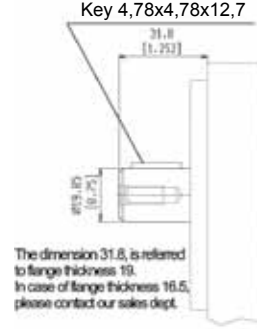
code 54 Max torque 150 Nm (1327 lbf in)
SAE A 11T-16/32DP Ansi B92 1a 1976



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

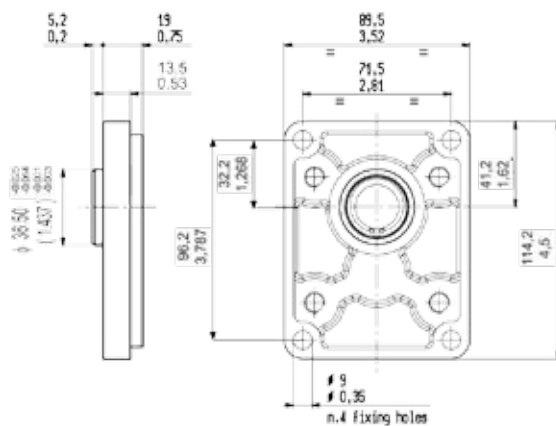


code 82 Max torque 70 Nm (620 lbf in)
5/8" SAE A parallel

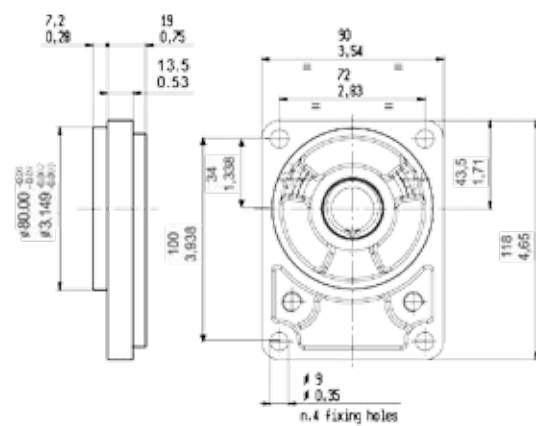


code 85 Max torque 130 Nm (1151 lbf in)
3/4" SAE A parallel

MOUNTING FLANGES



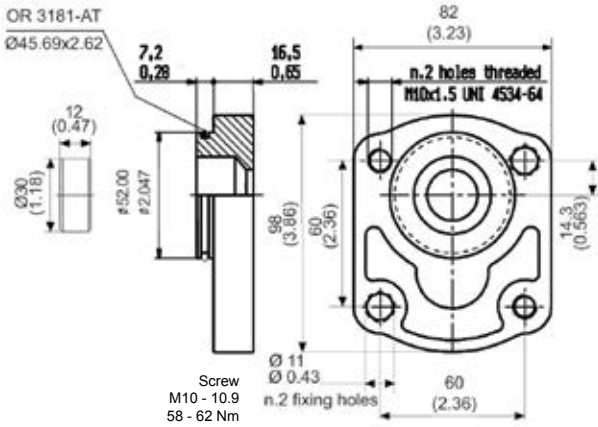
P1 European standard
With shaft code 28-62-82



B1 German standard
With shaft code 25-62

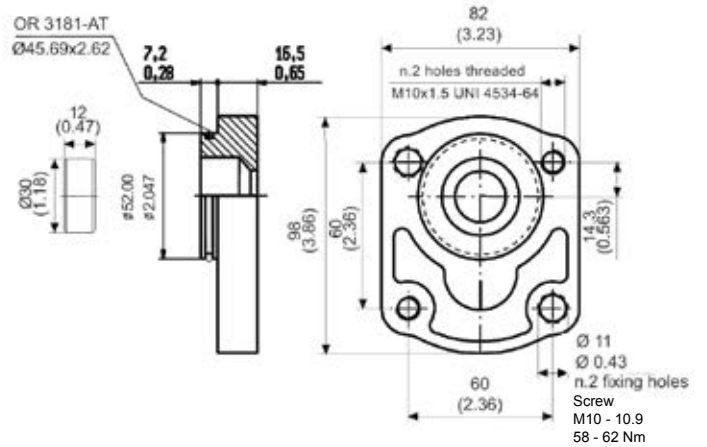
EO.120.0416.02.001M02





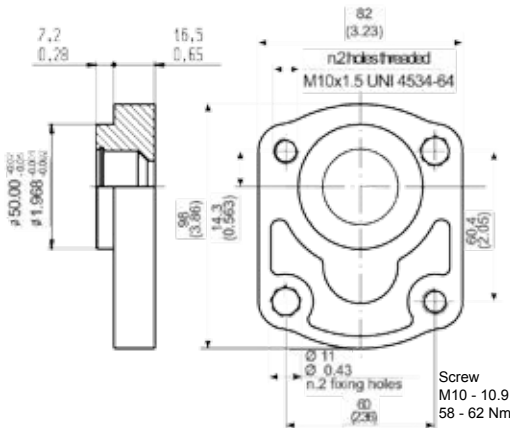
B2 German standard

With shaft code 03



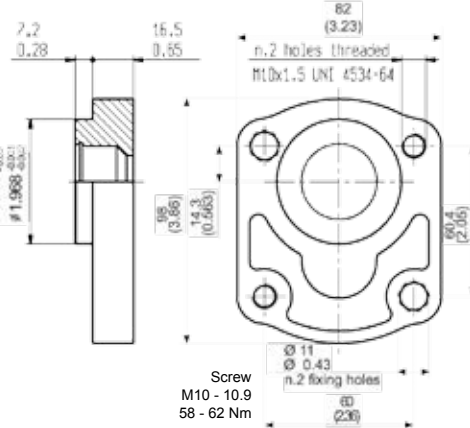
B3 German standard

With shaft code 03



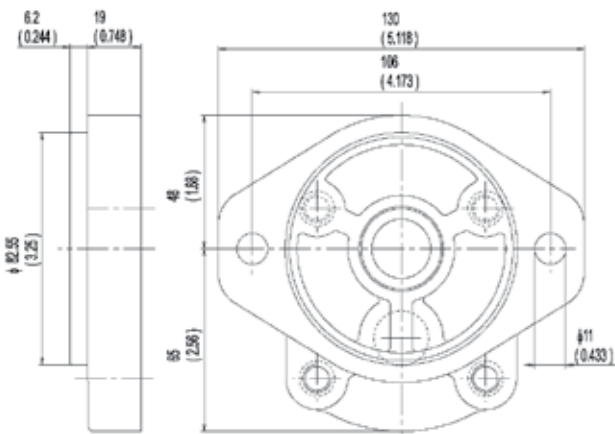
B4 German standard mounting flange

With shaft code 25-62



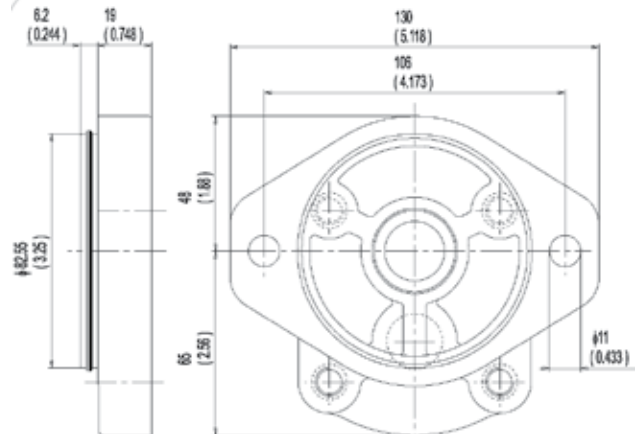
B5 German standard mounting flange

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

E0.120.0416.02.00IM02



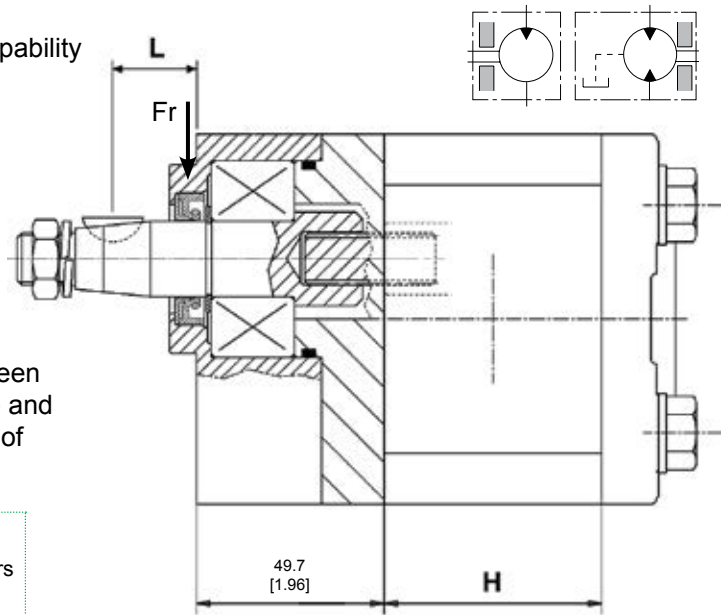
OUTRIGGER BEARING

The following diagrams show radial load capability of the bearing.

Calculation according to ISO 281 at 10 cSt.

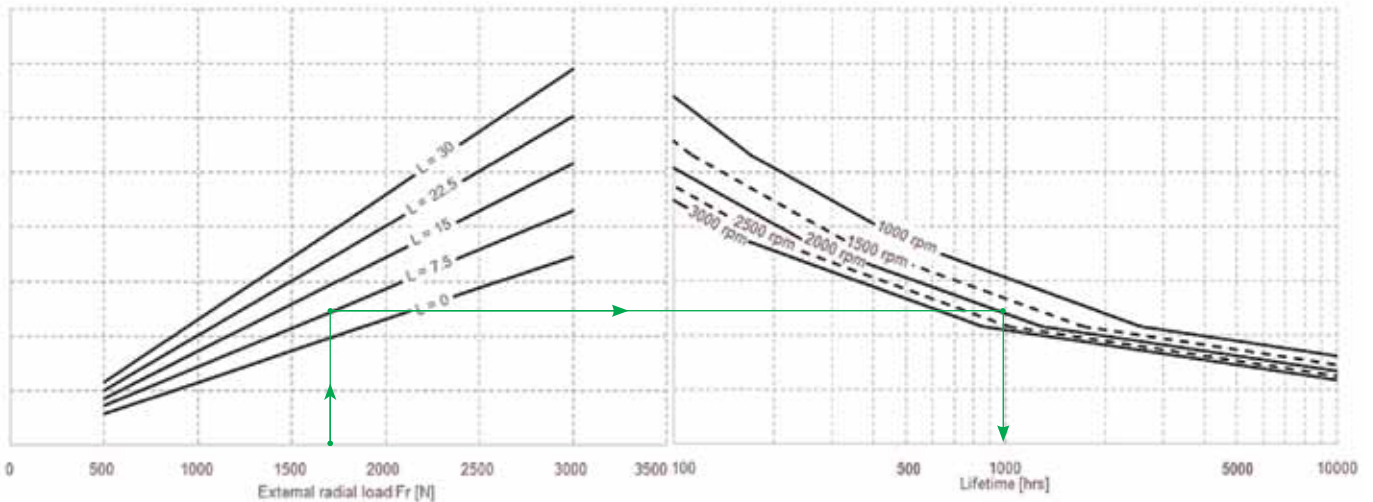
TYPE	H
4.5	47.1 (1.83")
6.5	49.95 (1.97")
8.3	52.8 (2.08")
10.5	56.3 (2.22")
11.3-12.5	59.7 (2.35")
13.8	63.5 (2.5")
16	67.5 (2.66")
19	75.6 (2.97")
22.5	81 (3.19")
26	86.6 (3.42")

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

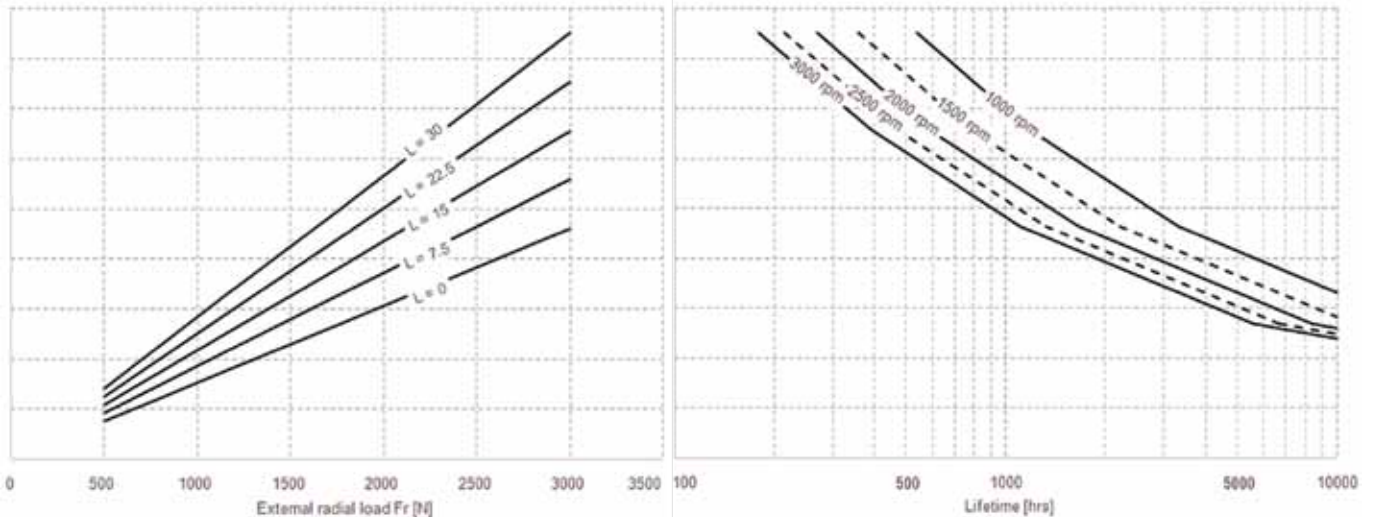


Example:
Fr = 1700 N
L = 7.5 → Expected life: 1000 hrs
Speed = 2000 rpm

For Code CP-CB-CL-CS



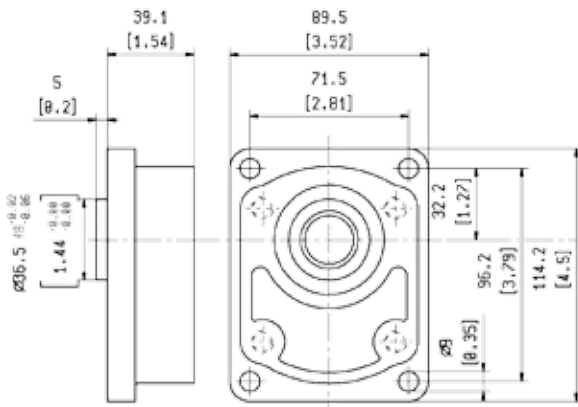
For Code CF



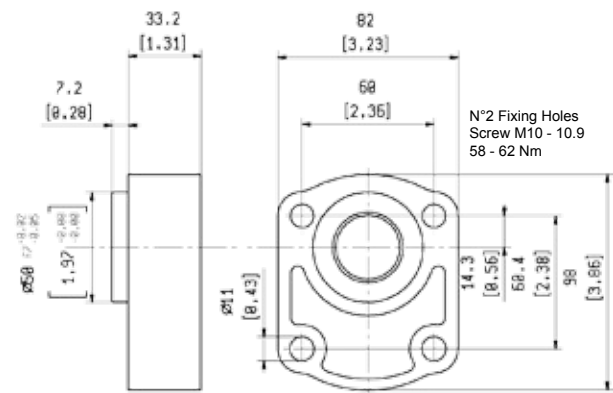
EO.120.0416.02.001M02



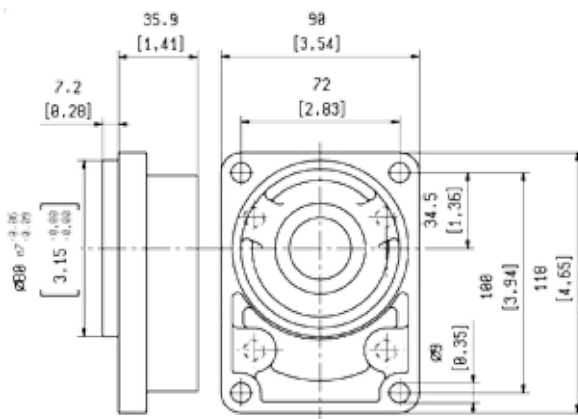
MOUNTING FLANGES WITH OUTRIGGER BEARING SUPPORT



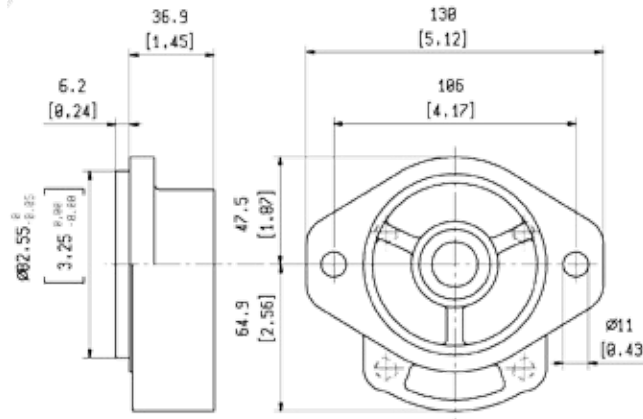
CP European standard mounting flange
With shaft code 28



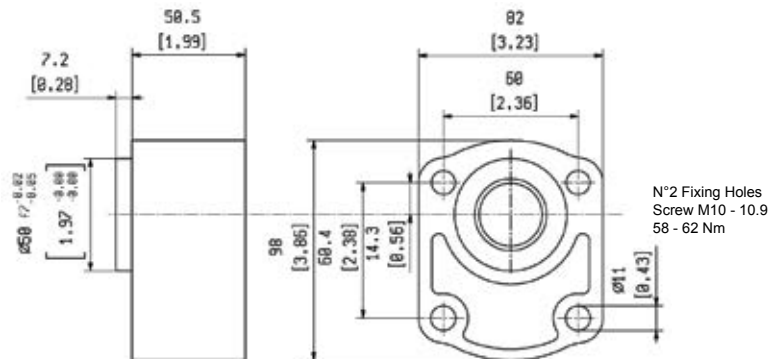
CL For engine endo thermic motors mounting flange
With shaft code 25, 26



CB German standard mounting flange
With shaft code 25-26



CS SAE A mounting flange
With shaft code 52-54-82-85

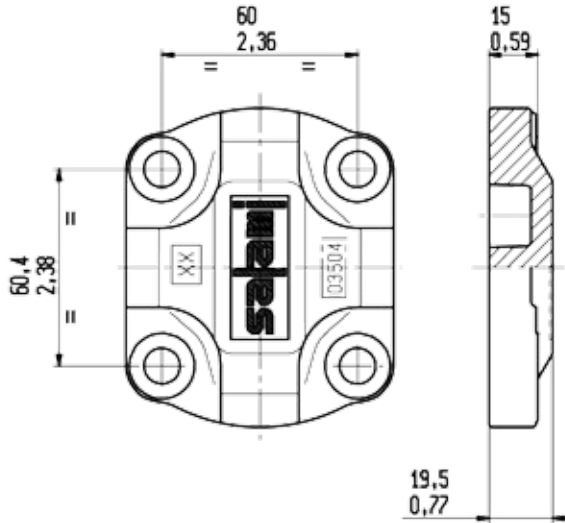


CF For endothermic motors with axial and radial loads
With shaft code 25-62

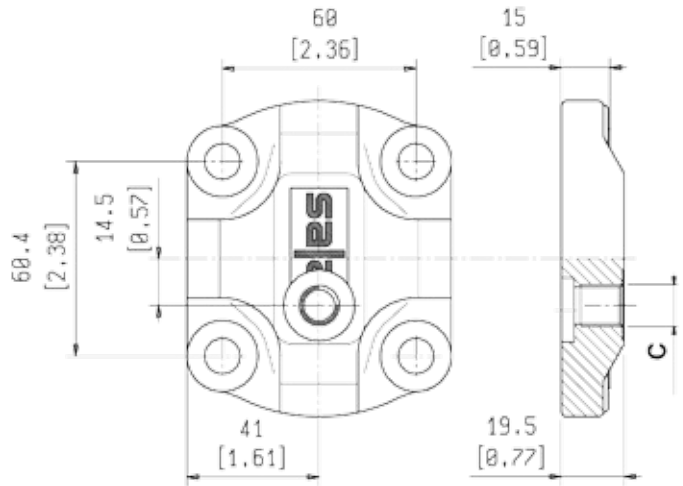
E0.120.0416.02.00IM02



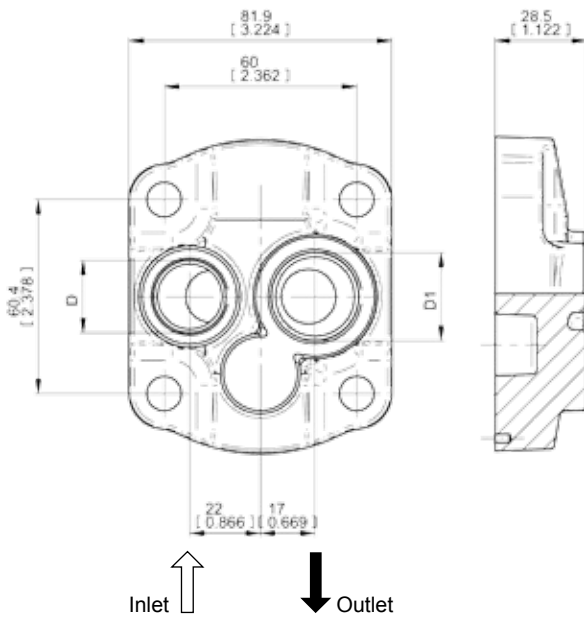
REAR COVERS



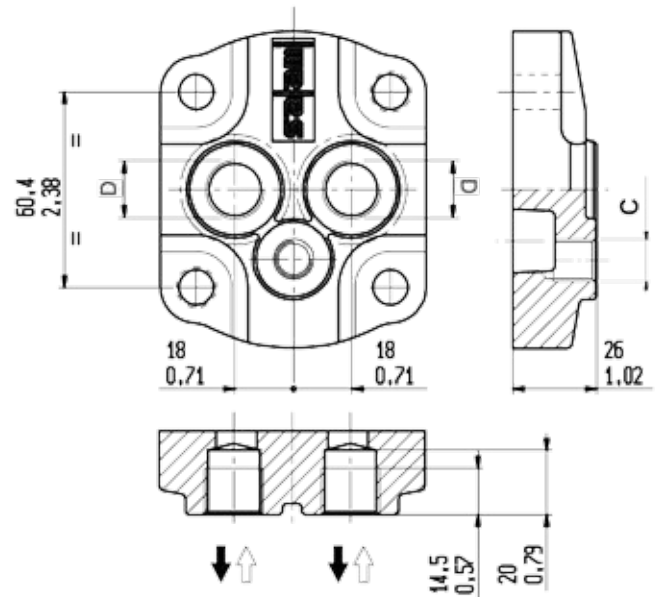
Standard rear cover for unidirectional motors



Standard rear cover for reversible pumps and motors, with external drain C. For the dimension C please see the table here below



REAR DRAIN



UNIDIRECTIONAL MOTORS

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

BIDIRECTIONAL MOTORS

For motors with threaded rear ports until 22 l/min delivery

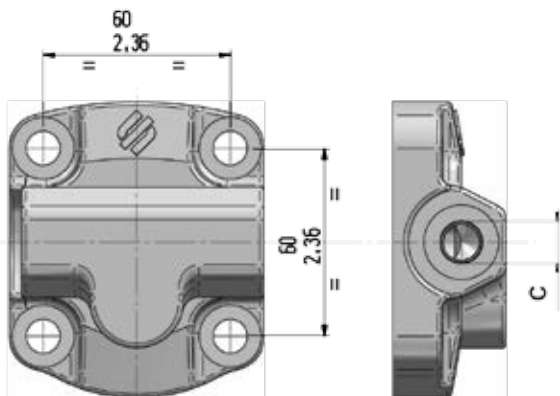
D	C
M18x1.5	G1/4
7/8-14 UNF-2B (SAE10)	7/16-20 UNF-2B (SAE4)
G1/2	G1/4

For rear ports if requested please advise type using note.

EO.120.0416.02.001M02

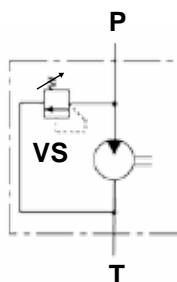
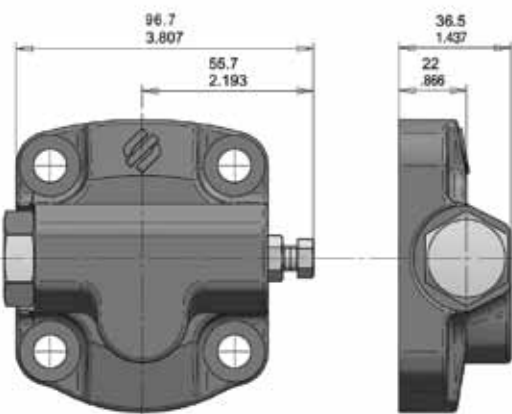


LATERAL DRAIN
FOR BIDIRECTIONAL MOTORS



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

REAR COVERS WITH RELIEF VALVE

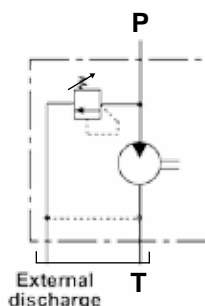
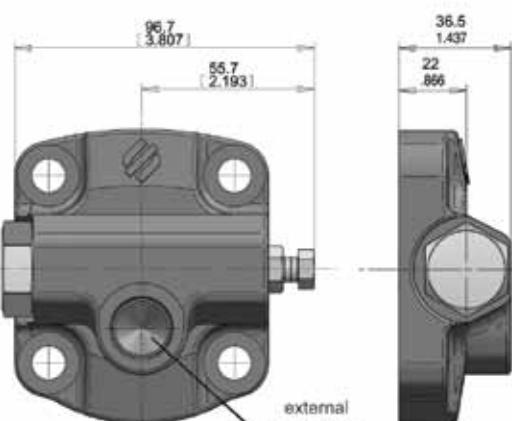


For this main relief valve you can choice four setting ranges:

- (20-50 bar)
- (51-75 bar)
- (76-150 bar)
- (151-220 bar)

code VS

With main relief valve with internal exhaust gallery



code VSE

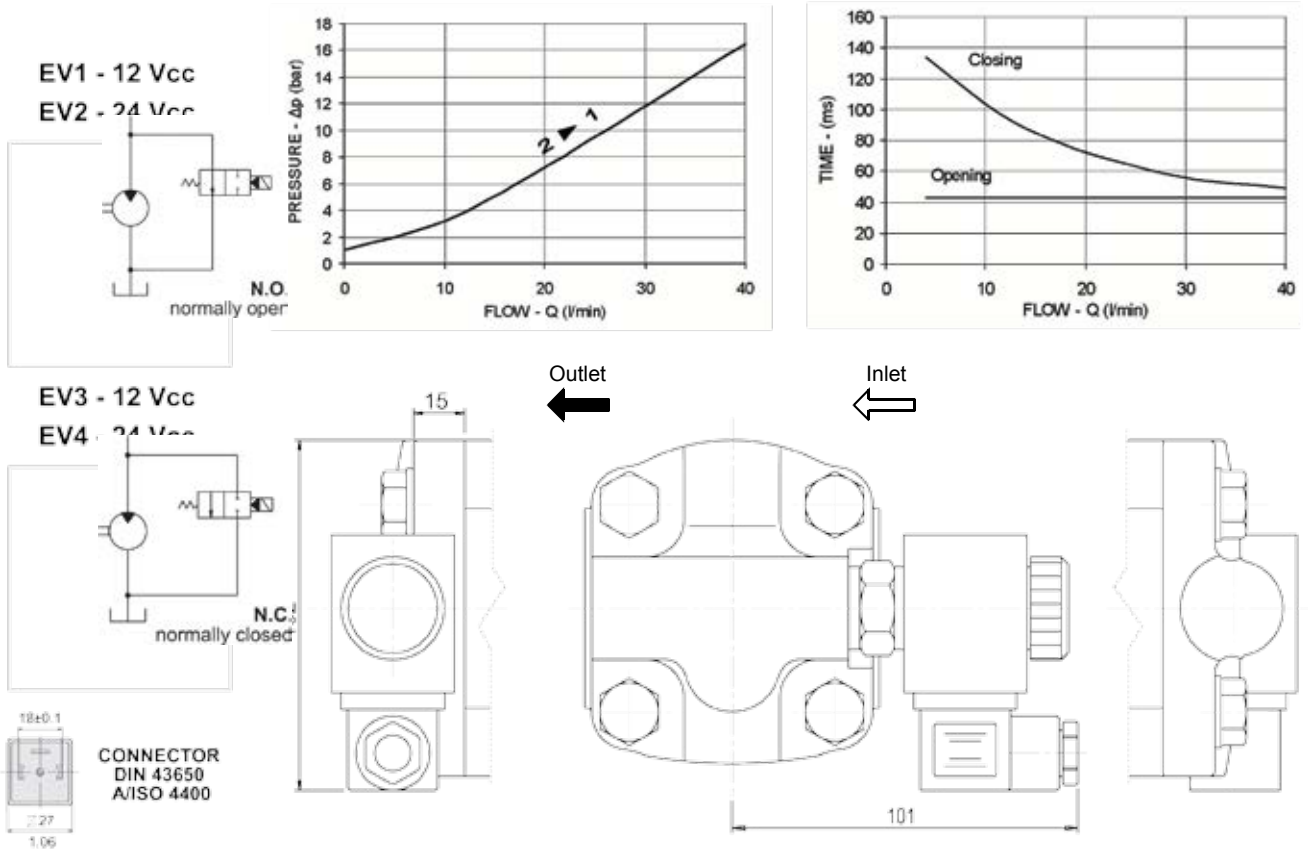
D (External discharge)
M18x1.5 (METRIC)
3/4-16 UNF-2B (SAE8)
G3/8 (BSPP)

E0.120.0416.02.00IM02



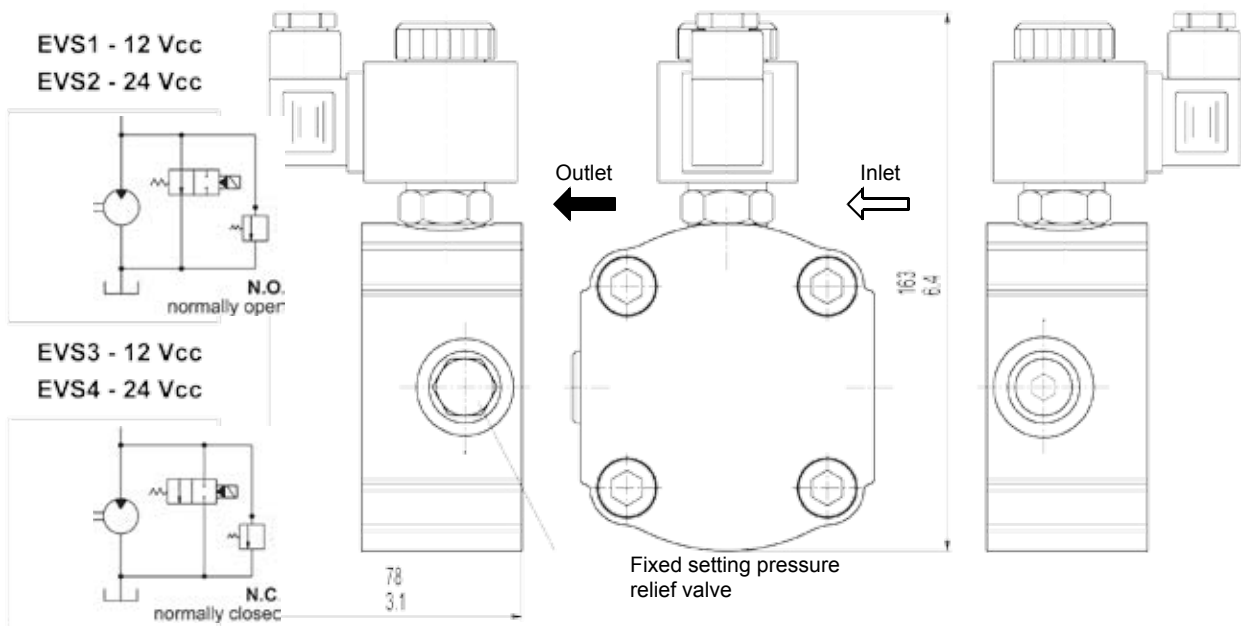
ELECTRIC UNLOADING VALVE

code EV



code EVS

Cover with built-in relief and electric unloading valve



EO.120.0416.02.001M02



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.

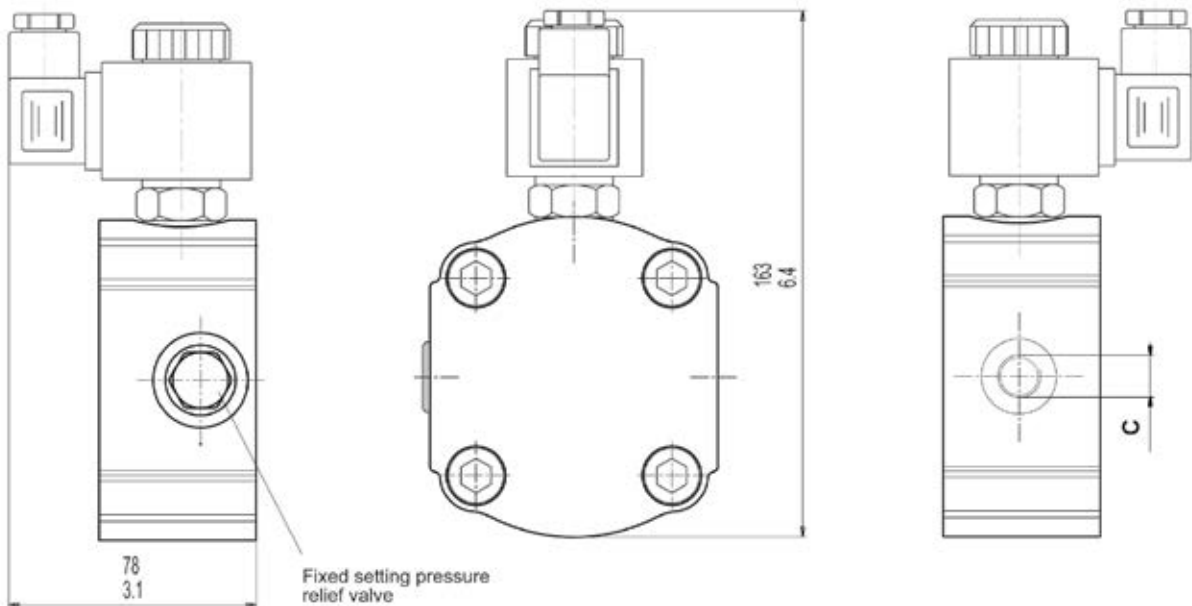
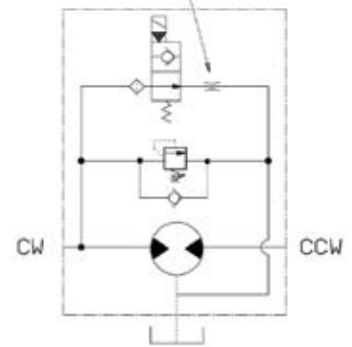
Changing the calibrated orifice we are able to evaluate different cases in order to reach the customer's need.

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



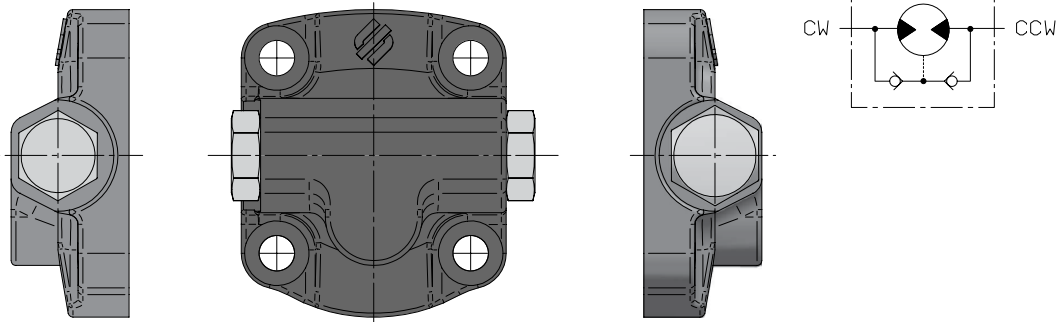
CONNECTOR
DIN 43650
A/ISO 4400

Calibrated orifice in order to fix the speed



INTERNAL DRAIN

code IDV

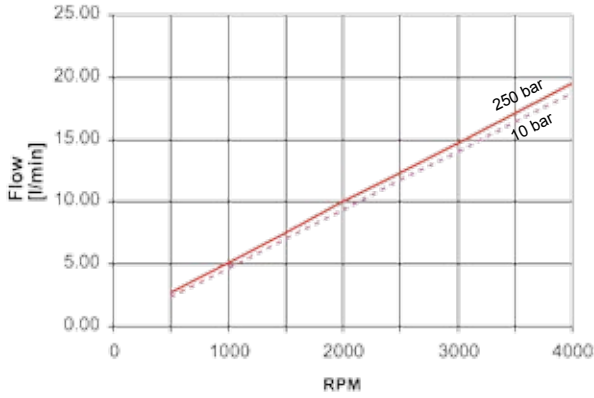


E0.120.0416.02.00IM02

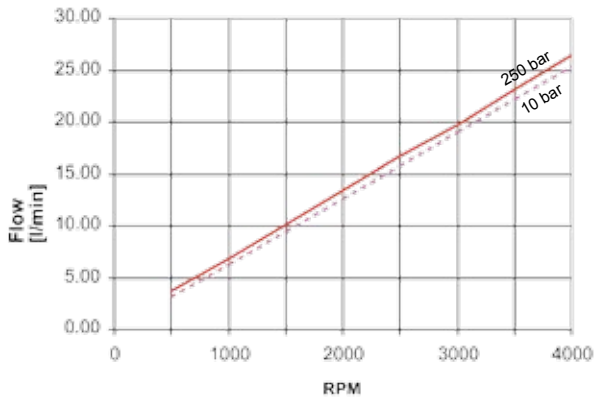
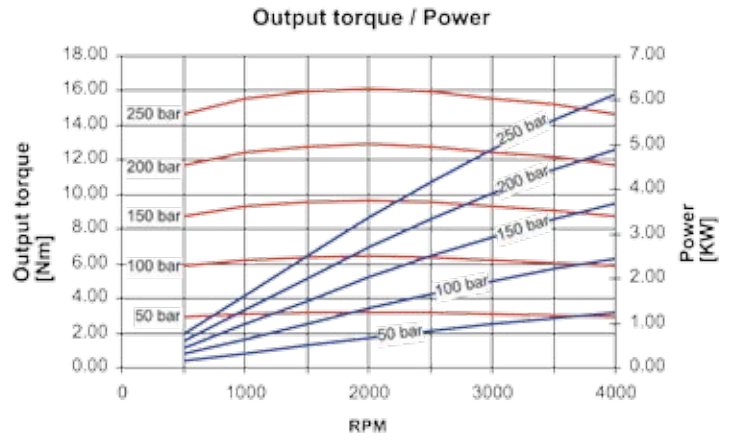


PERFORMANCE CURVES

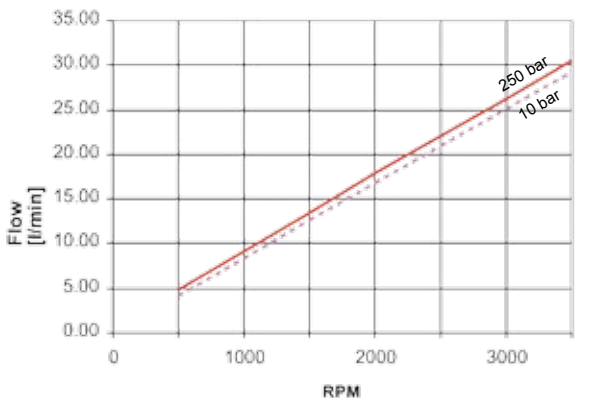
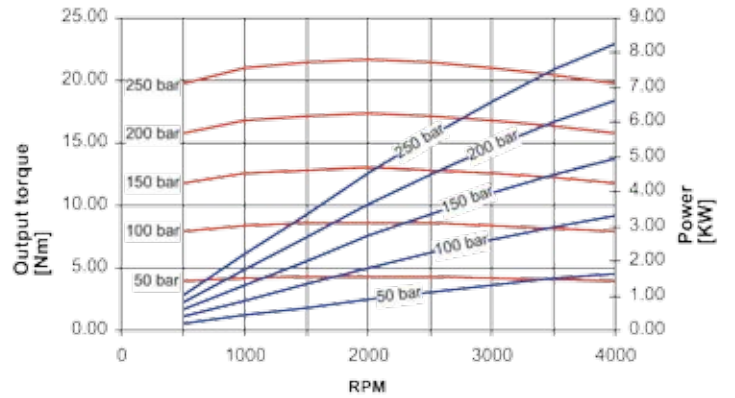
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C



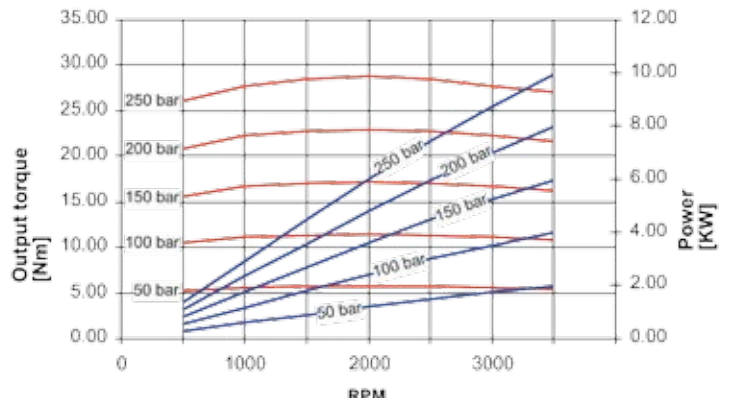
2ME - 4.5



2ME - 6.5

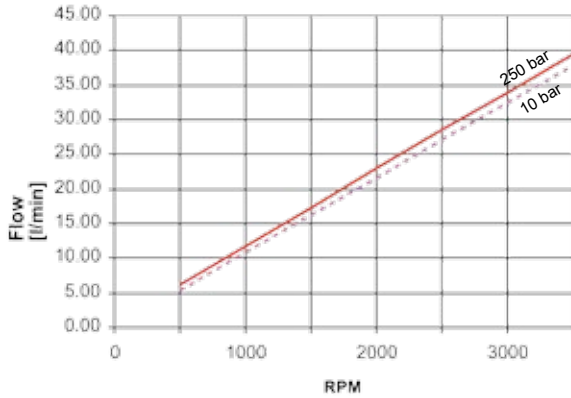


2ME - 8.3

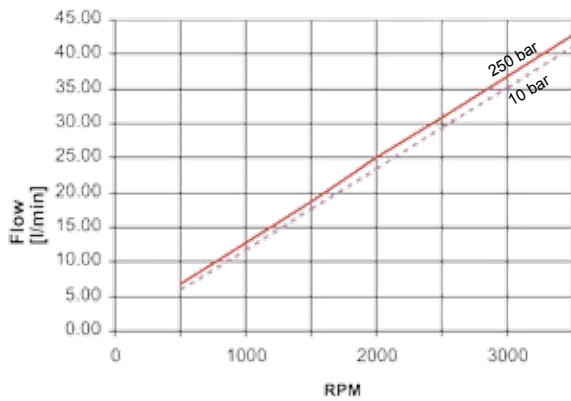
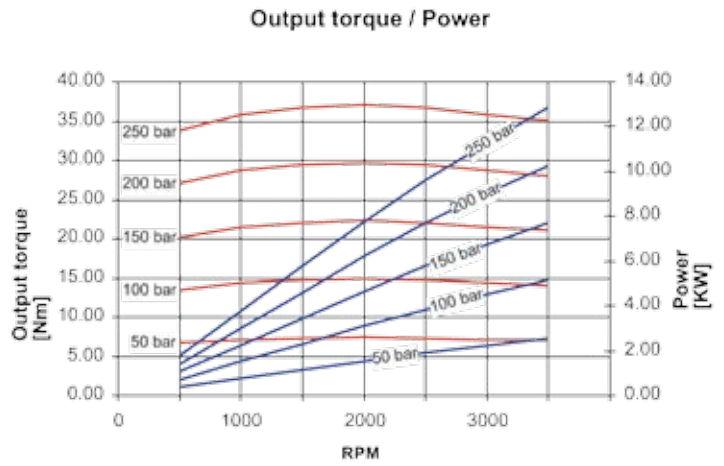


EO.120.0416.02.001M02

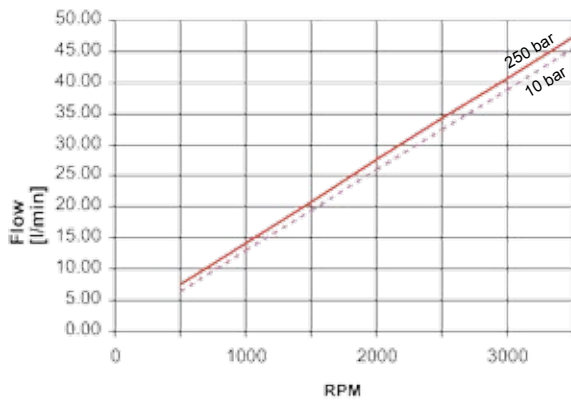
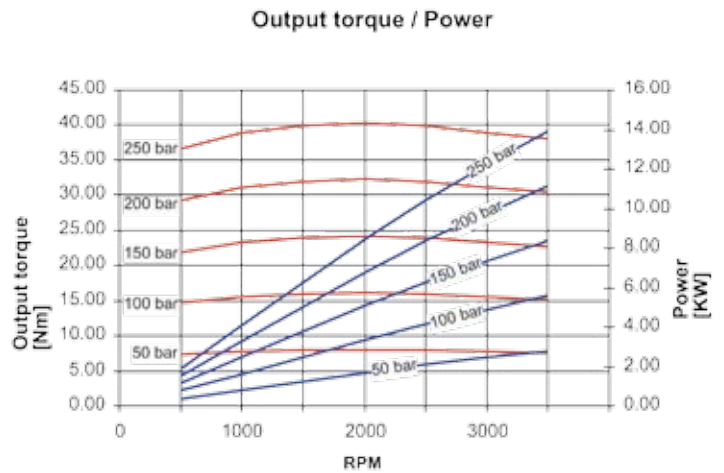




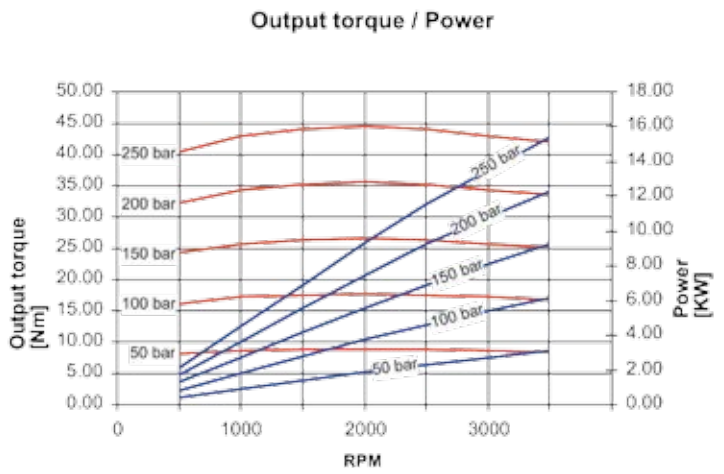
2ME - 10.5



2ME - 11.3

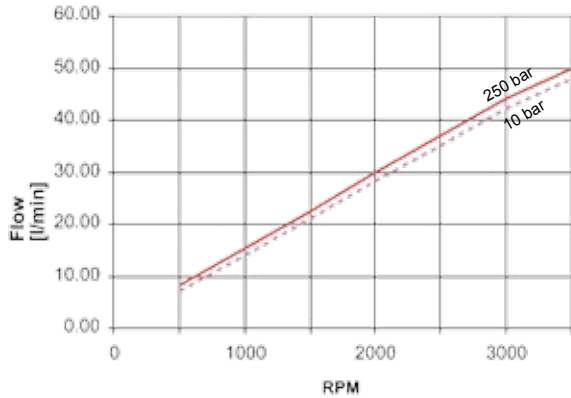


2ME - 12.5

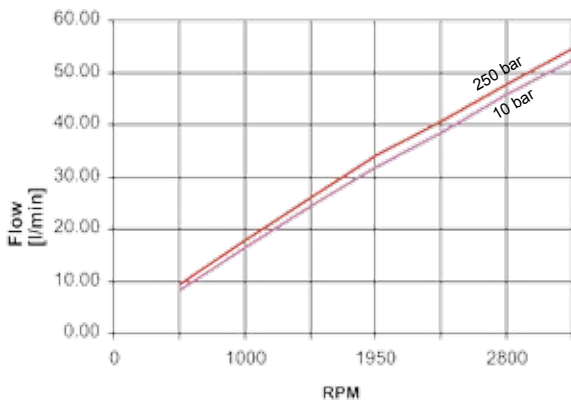
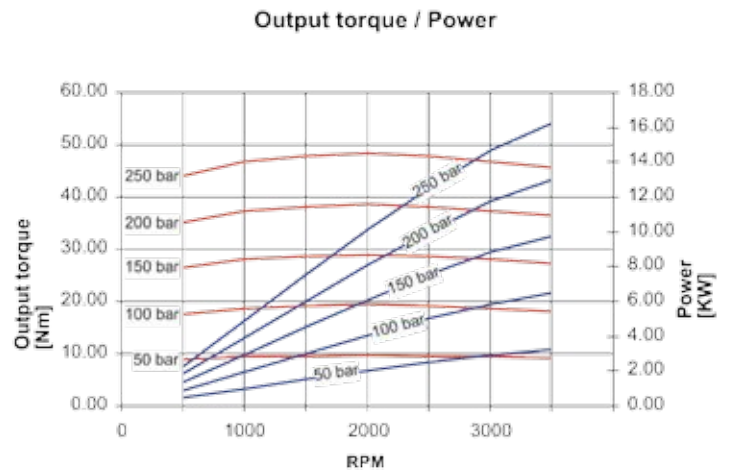


E0.120.0416.02.00IM02

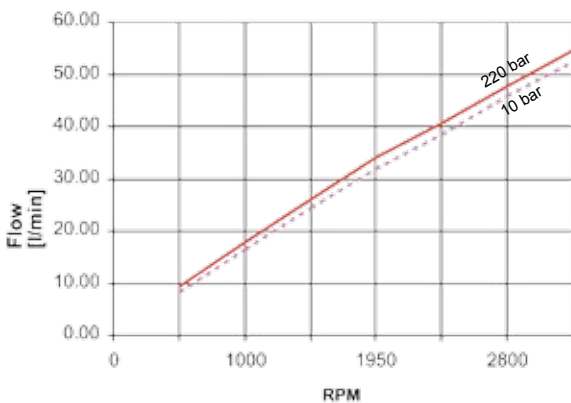
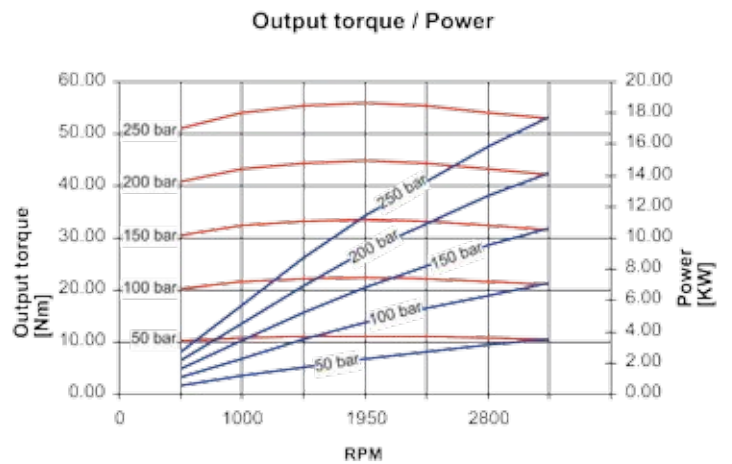




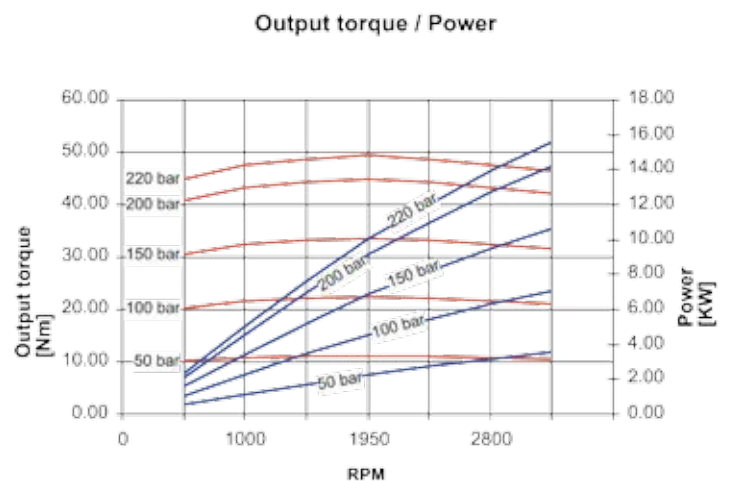
2ME - 13.8



2ME - 16

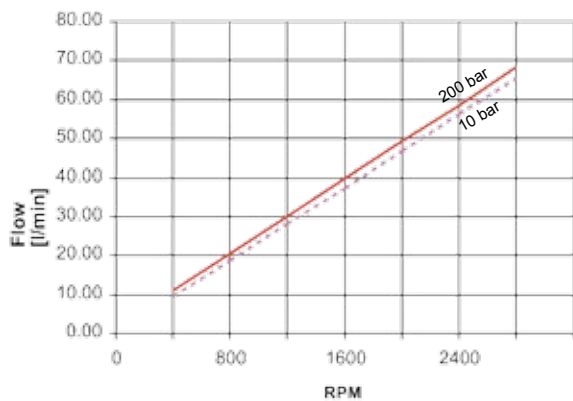


2ME - 19

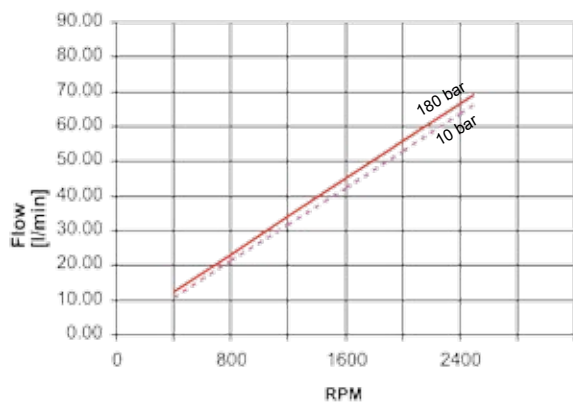
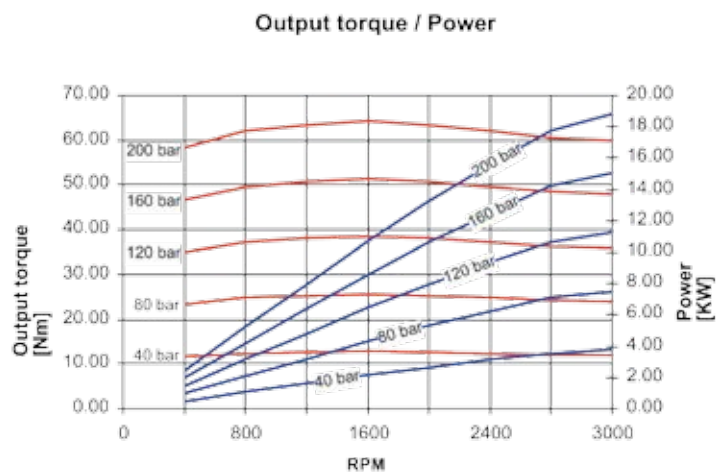


EO.120.0416.02.001M02

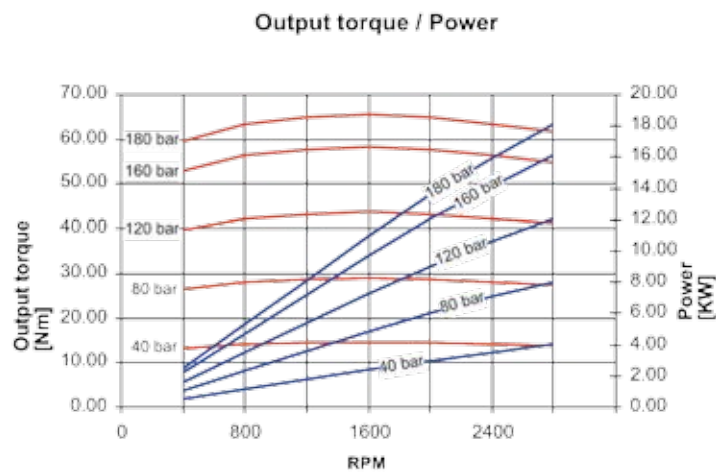




2ME - 22.5



2ME - 26



E0.120.0416.02.00IM02



SINGLE MOTORS

2ME
 A 16
 B D -
 C P D 28 E P1 -
 F V -
 G 1 -
 H CP -
 I VS ...
 /
 Adjustable flow l/min
 Setting main relief valve (bar)

TYPE	A DISPLACEMENTS	
4.5	4.6 cm ³ /rev.	0.27 cu.in/rev.
6.5	6.5 cm ³ /rev.	0.40 cu.in/rev.
8.3	8.2 cm ³ /rev.	0.50 cu.in/rev.
10.5	10.6 cm ³ /rev.	0.65 cu.in/rev.
11.3	11.5 cm ³ /rev.	0.68 cu.in/rev.
12.5	12.5 cm ³ /rev.	0.77 cu.in/rev.
13.8	13.8 cm ³ /rev.	0.84 cu.in/rev.
16	16.6 cm ³ /rev.	1.01 cu.in/rev.
19	19.4 cm ³ /rev.	1.18 cu.in/rev.
22.5	22.9 cm ³ /rev.	1.37 cu.in/rev.
26	25.8 cm ³ /rev.	1.58 cu.in/rev.

ROTATION (page 124)	CODES	B
Clockwise	D	
Anti-clockwise	S	
Reversible	R	

PORTS (page 147)	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 148)	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	

I VALVES IN THE COVER (page 154)		CODES
Adjustable main relief valve	VS	
Fixed setting main relief valve	VSE	
Electric unloading valve (12V)	EV1	
Electric unloading valve (24V)	EV2	
Main relief and electric unloading valves (12V)	EVS1	
Main relief and electric unloading valves (24V)	EVS2	
Valve for double step of speed	EPV	
Internal drain	IDV	

H OUTRIGGER BEARING (page 151)		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 149)		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	

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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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