
2.5MB

Aluminium gear motors

Technical Catalogue

E0.138.0219.02.00IM05



GEAR MOTORS

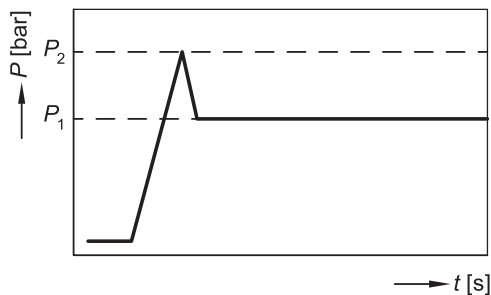
- Displacements from 2.8 cm³/rev to 73.4 cm³/rev (*from 0.17 cu.in./rev to 4.48 cu.in./rev*).
- Rated pressure up to 250 bar (3625psi).
- Speed up to 4500 rpm.
- Flanges, shafts and ports for ISO, DIN and SAE standards.
- Available in uni and bi-directional version for all the sizes, displacements and 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).

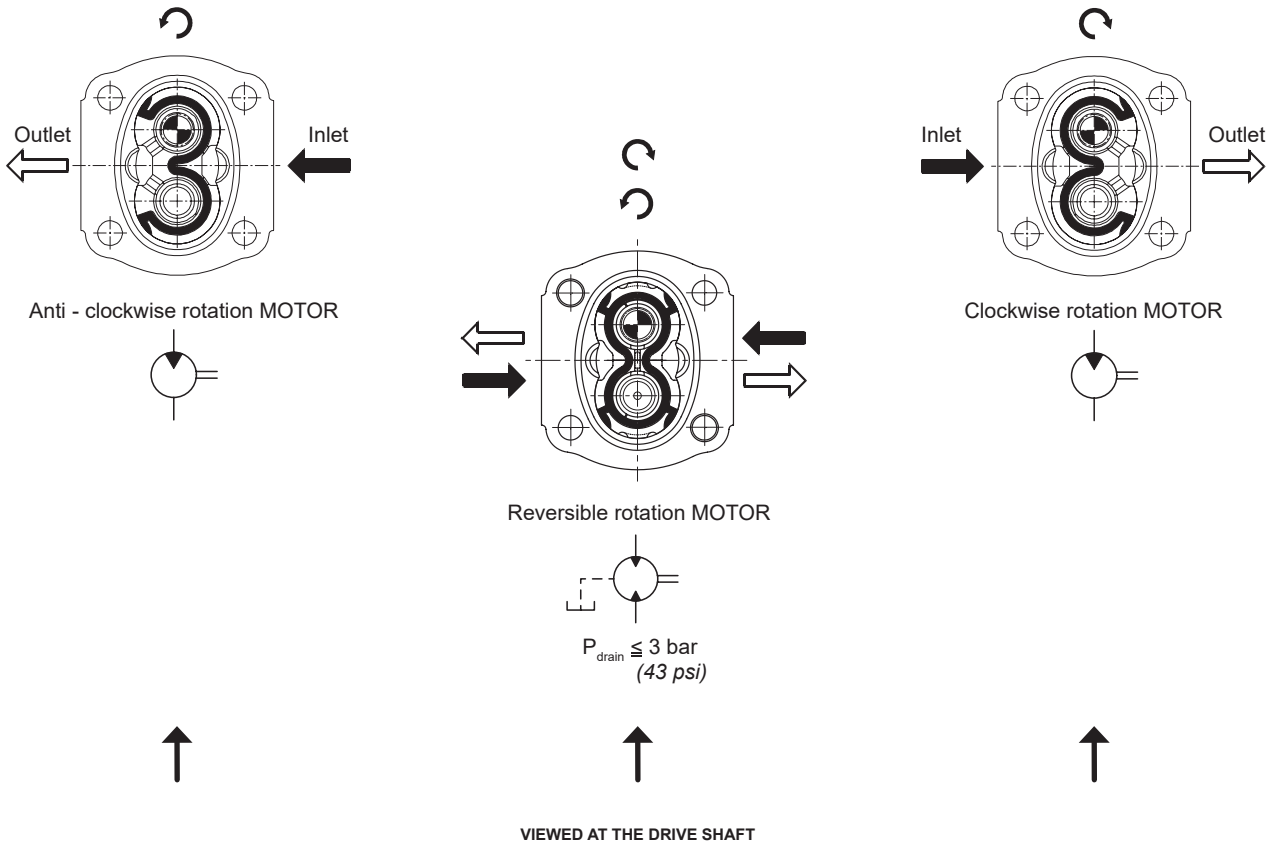
EO.100.0821.02.001M03



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 |

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

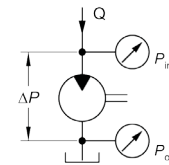
Input flow: $Q = \frac{V \cdot n}{231 \cdot \eta_v}$ [US gal/min]

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

2ME11,3D-P28P1

001-WO1-[-]-[-]-[-]-[-]

612014017

2/2021

Nr 1

Salami Manufacturing Part Number

Manufacturing Date, Month and Year

Batch Serial Number

Rot. →

Unit Rotation

Build Order Number (for Salami management)

EO.100.0821.02.001M03



TECHNICAL DATA

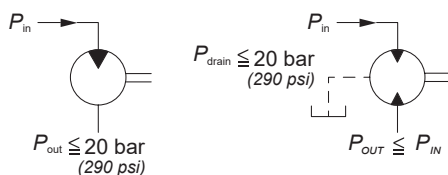
| GROUP 1.5 - E SERIES | Displacement | | Max. continuous pressure P ¹ | | Max. starting pressure P ² | | Max. speed at P ² | Min. speed at P ¹ |
|----------------------|----------------------|-----------|---|------|---------------------------------------|------|------------------------------|------------------------------|
| | 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.

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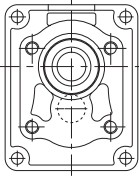
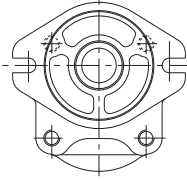
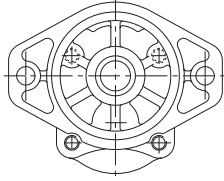
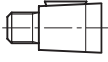




Final revised edition - February 2019

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.

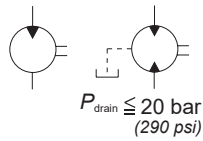
If any doubts, please contact our sales department.

SHAFTS AND FLANGES COMBINATION

| | | | |
|--|---|--|---|
| 2.5MB |  |  |  |
| | CODE P2 European standard | CODE S2 SAE A 2 Bolts | CODE S3 SAE B 2 Bolts |
|  CODE 38 - Tapered 1:8 | 38P2 | | |
|  CODE 53 - SAE A splined 10T | | 53S2 | |
|  CODE 54 - SAE A splined 11T | | 54S2 | |
|  CODE 55 - SAE B splined 13T | | 55S2 | 55S3 |
|  CODE 87 - SAE B parallel | | 87S2 | 87S3 |

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

Displacements up to 2.69 cu.in./rev
Pressure up to 4350 psi

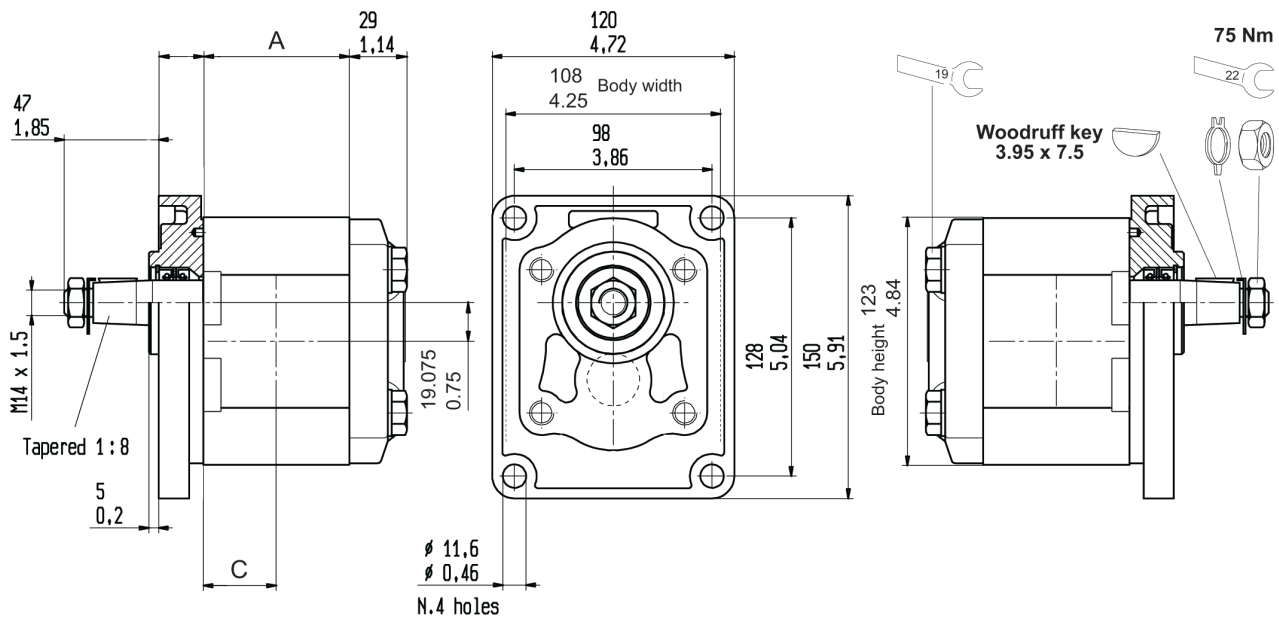


GEAR MOTORS

Displacements up to 44.2 cm³/rev
Pressure up to 300 bar

ASSEMBLING DIMENSIONS AND WORKING CONDITIONS

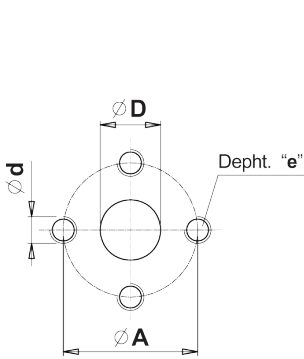
| Type | | 16 | 19 | 22 | 25 | 28 | 32 | 38 | 44 | |
|-------------------------|----------------|------|-------|------|-------|------|-------|-------|-------|------|
| Displacement | cm³/rev | 16 | 19.3 | 22.2 | 25.2 | 27.6 | 32.4 | 38.1 | 44.2 | |
| | cu.in./rev | 0.97 | 1.17 | 1.35 | 1.53 | 1.68 | 1.97 | 2.32 | 2.69 | |
| Dimension A | mm | 63 | 66.5 | 70 | 72.5 | 85 | 90.5 | 96.5 | 103 | |
| | in | 2.45 | 2.59 | 2.73 | 2.82 | 3.31 | 3.52 | 3.76 | 4.06 | |
| Dimension C | mm | 31.5 | 33.25 | 35 | 36.25 | 42.5 | 45.25 | 48.25 | 51.5 | |
| | in | 1.20 | 1.29 | 1.36 | 1.41 | 1.65 | 1.76 | 1.88 | 2.03 | |
| Max continuous pressure | P ¹ | bar | 250 | 250 | 250 | 250 | 250 | 230 | 200 | 170 |
| | | psi | 3625 | 3625 | 3625 | 3625 | 3625 | 3335 | 2900 | 2465 |
| Max starting pressure | P ² | bar | 280 | 280 | 280 | 280 | 280 | 250 | 220 | 190 |
| | | psi | 4060 | 4060 | 4060 | 4060 | 4060 | 3625 | 3190 | 2755 |
| Max speed | rpm | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 2750 | 2500 | |
| Min speed | rpm | 600 | 600 | 500 | 500 | 500 | 500 | 400 | 400 | |
| Weight | kg | 3.40 | 3.60 | 3.80 | 4.10 | 4.50 | 4.75 | 5.00 | 5.30 | |
| | lbs | 7.48 | 7.92 | 8.36 | 9.02 | 9.92 | 10.47 | 11.00 | 11.66 | |



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FLANGED and THREADED PORTS

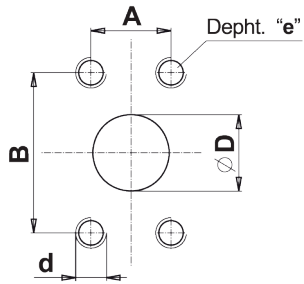


code P

Flanged ports
European standard

| UNI-DIRECTIONAL MOTORS | TYPE | OUTLET | | | | INLET | | | |
|------------------------|------|---------------|---------------|-----|---------------|---------------|---------------|----|---------------|
| | | Ø D | Ø A | d | e | Ø D | Ø A | d | e |
| From 16 to 19 | | 20 (0.79") | 40 (1.57") | M8 | 13 (0.51") | 13 (0.51") | 30 (1.18") | M6 | 13 (0.51") |
| From 22 to 44 | | 25 (0.97") | 51 (2.01") | M10 | 16 (0.62") | 18 (0.70") | 40 (1.56") | M8 | 18 (0.70") |

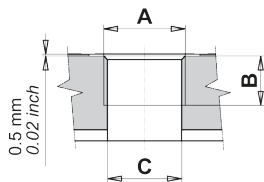
| BI-DIRECTIONAL MOTORS | TYPE | OUTLET | | | | INLET | | | |
|-----------------------|------|---------------|---------------|-----|---------------|---------------|---------------|-----|---------------|
| | | Ø D | Ø A | d | e | Ø D | Ø A | d | e |
| From 16 to 25 | | 20 (0.79") | 40 (1.57") | M8 | 13 (0.51") | 20 (0.78") | 40 (1.56") | M8 | 13 (0.51") |
| From 28 to 44 | | 25 (0.97") | 51 (2.01") | M10 | 16 (0.62") | 25 (0.97") | 51 (2.01") | M10 | 16 (0.62") |



code S

Flanged ports
SAE J518
AMERICAN STANDARD
THREAD

| UNI-DIRECTIONAL MOTORS | TYPE | OUTLET | | | | | INLET | | | | |
|------------------------|------|---------------|-----------------|-----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|
| | | Ø D | B | A | d | e | Ø D | B | A | d | e |
| From 16 to 44 | | 25 (0.97") | 52.4 (2.06") | 26.2 (1.02") | 3/8 16 unc | 16 (0.62") | 18 (0.70") | 47.6 (1.87") | 22.2 (0.86") | 3/8 16 unc | 16 (0.62") |



code G

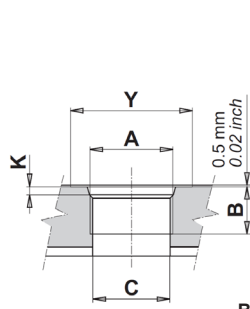
Threaded ports
GAS (BSPP)

| UNI-DIRECTIONAL MOTORS | TYPE | OUTLET | | | INLET | | |
|------------------------|------|--------|---------------|---------------|-------|---------------|---------------|
| | | A | B | ØC | A | B | ØC |
| From 16 to 22 | | G3/4 | 16 (0.62") | 20 (0.78") | G1/2 | 15 (0.59") | |
| From 25 to 44 | | G1 | 19 (0.74") | 23 (0.91") | G3/4 | 16 (0.62") | 20 (0.78") |

| BI-DIRECTIONAL MOTORS | TYPE | OUTLET | | | INLET | | |
|-----------------------|------|--------|---------------|---------------|-------|---------------|---------------|
| | | A | B | ØC | A | B | ØC |
| From 16 to 25 | | G3/4 | 16 (0.62") | 20 (0.78") | G3/4 | 16 (0.62") | 20 (0.78") |
| From 28 to 44 | | G1 | 19 (0.74") | 23 (0.91") | G1 | 19 (0.74") | 23 (0.91") |

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UNI-DIRECTIONAL MOTORS

| TYPE | OUTLET | | | | | INLET | | | | |
|---------------|-----------------------|------------|------------|------------|-------------|-----------------------|------------|------------|------------|-------------|
| | A | B | ØC | Y | K | A | B | ØC | Y | K |
| From 16 to 22 | 1-1/16-12 UN (SAE 12) | 19 (0.74") | 20 (0.78") | 41 (1.61") | 3.3 (0.12") | 7/8-14 UNF (SAE 10) | 14 (0.54") | 15 (0.59") | 34 (1.32") | 2.5 (0.10") |
| From 25 to 44 | 1-5/16-12 UN (SAE 16) | | 23 (0.91") | 49 (1.93") | | 1-1/16-12 UN (SAE 12) | 19 (0.74") | 20 (0.78") | 41 (1.61") | 3.3 (0.12") |

BI-DIRECTIONAL MOTORS

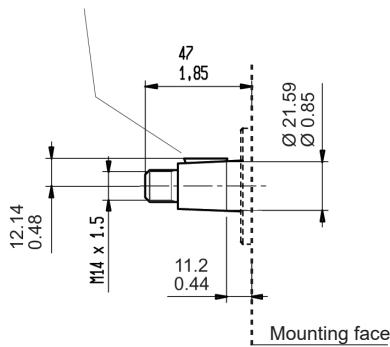
| TYPE | OUTLET | | | | | INLET | | | | |
|---------------|-----------------------|------------|------------|------------|-------------|-----------------------|------------|------------|------------|-------------|
| | A | B | ØC | Y | K | A | B | ØC | Y | K |
| From 16 to 25 | 1-1/16-12 UN (SAE 12) | 19 (0.74") | 20 (0.78") | 41 (1.61") | 3.3 (0.12") | 1-1/16-12 UN (SAE 12) | 19 (0.74") | 20 (0.78") | 41 (1.61") | 3.3 (0.12") |
| From 28 to 44 | 1-5/16-12 UN (SAE 16) | | 23 (0.91") | 49 (1.93") | | 1-5/16-12 UN (SAE 16) | | 23 (0.91") | 49 (1.93") | |

code R

Threaded ports SAE (ODT)

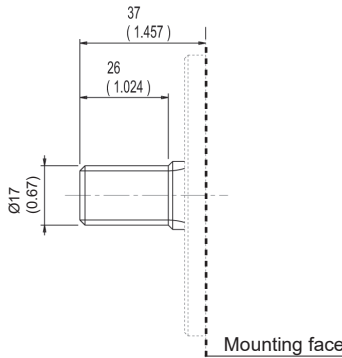
DRIVE SHAFTS

Woodruff Key (3.95x7.5)



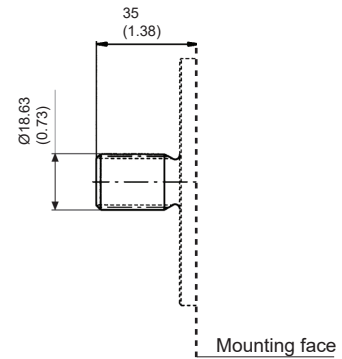
code 38 Max torque 250 Nm (2213 lbf in)

Tapered 1:8



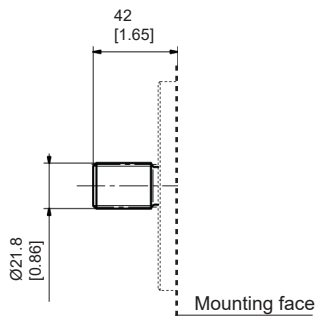
code 53 Max torque 125 Nm (1106 lbf in)

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



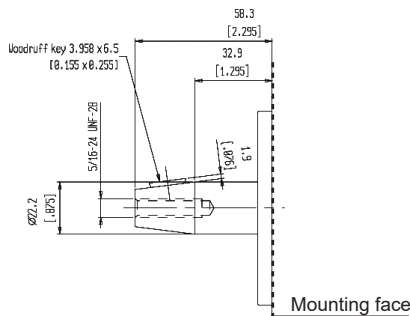
code 54 Max torque 150 Nm (1327 lbf in)

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



code 55 Max torque 320 Nm (2830 lbf in)

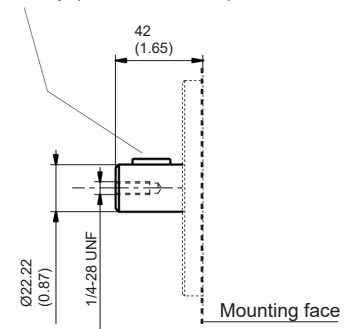
Splined SAE B 13T-16/32DP Ansi B92 1a 1976



code 37 Max torque 200 Nm (1770 lbf in)

Tapered 1:4

Woodruff Key (6.35x6.35x17.7)



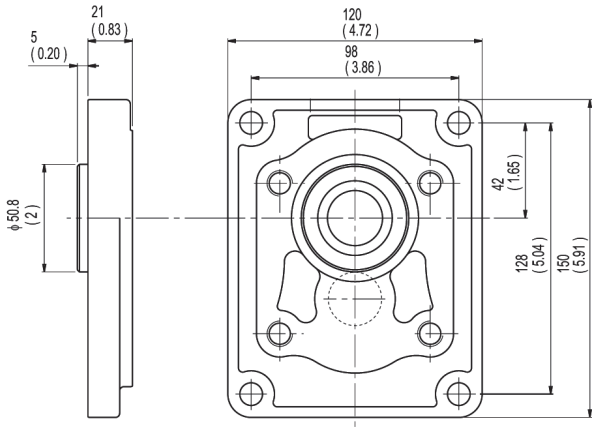
code 87 Max torque 220 Nm (1950 lbf in)

SAE B Parallel

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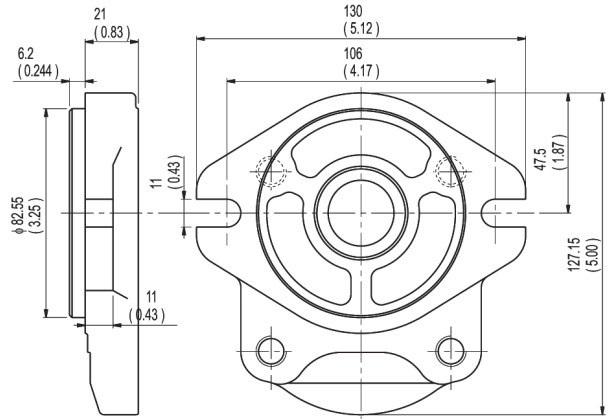
MOUNTING FLANGES



P2

European standard

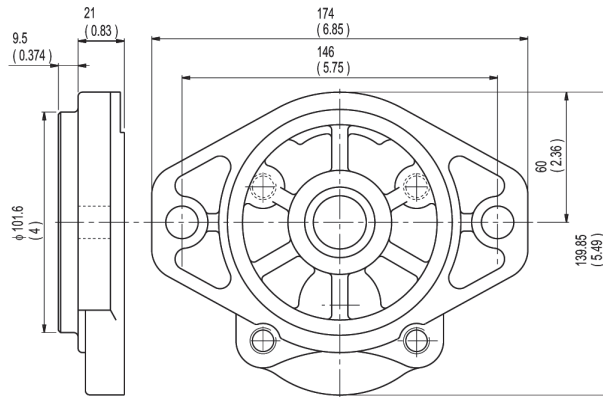
With shaft code 38



S2

SAE A 2 bolts

With shaft code 53-54-55-87



S3

SAE B 2 bolts

With shaft code 55-87

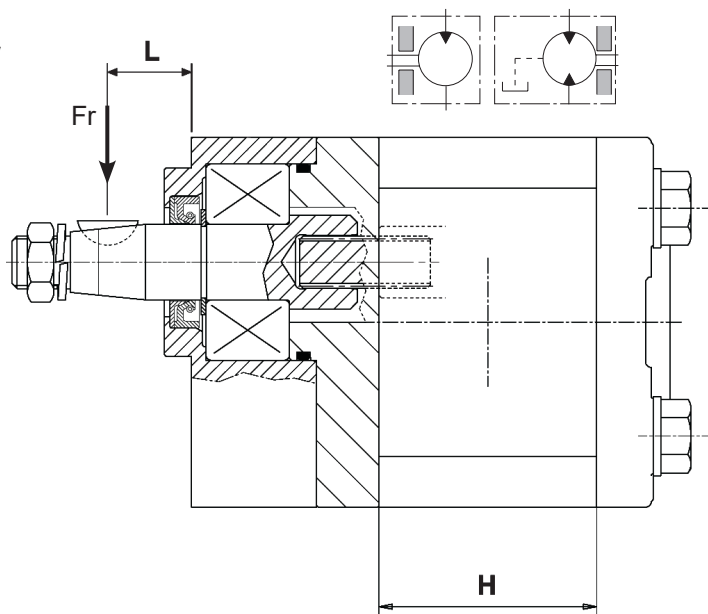
OUTRIGGER BEARING

The following diagrams show radial load capability of the bearing.

Calculation according to ISO 281 at 10 cSt.

| TYPE | H |
|------|--------------|
| 16 | 63 (2.45") |
| 19 | 66.5 (2.59") |
| 22 | 70 (2.73") |
| 25 | 72.5 (2.82") |
| 28 | 85 (3.31") |
| 32 | 90.5 (3.52") |
| 38 | 96.5 (3.76") |
| 44 | 103 (4.06") |

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



Example:

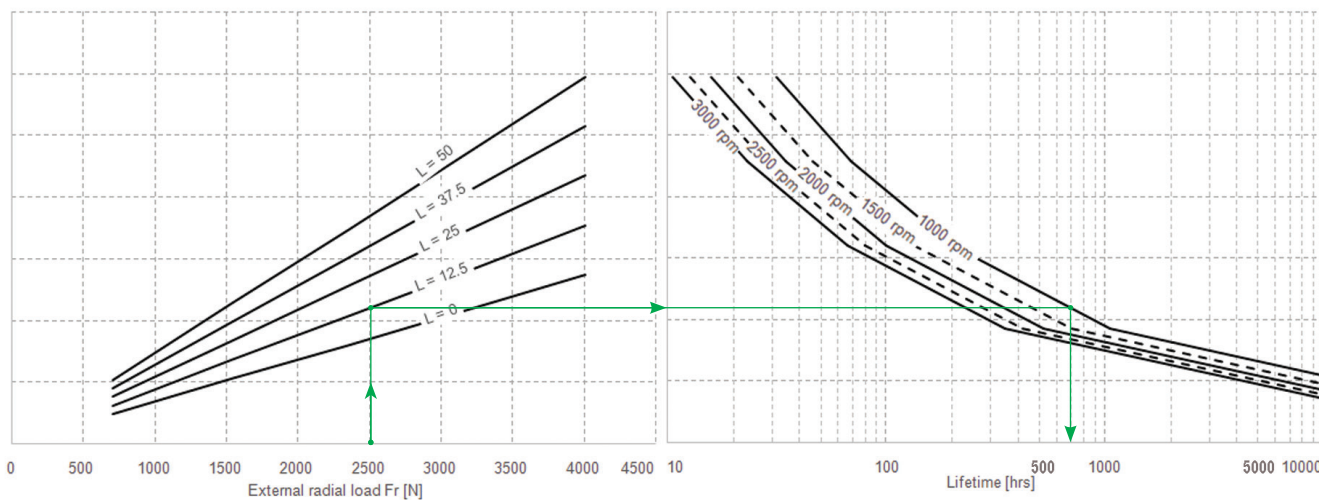
Fr = 2500 N

L = 12.5

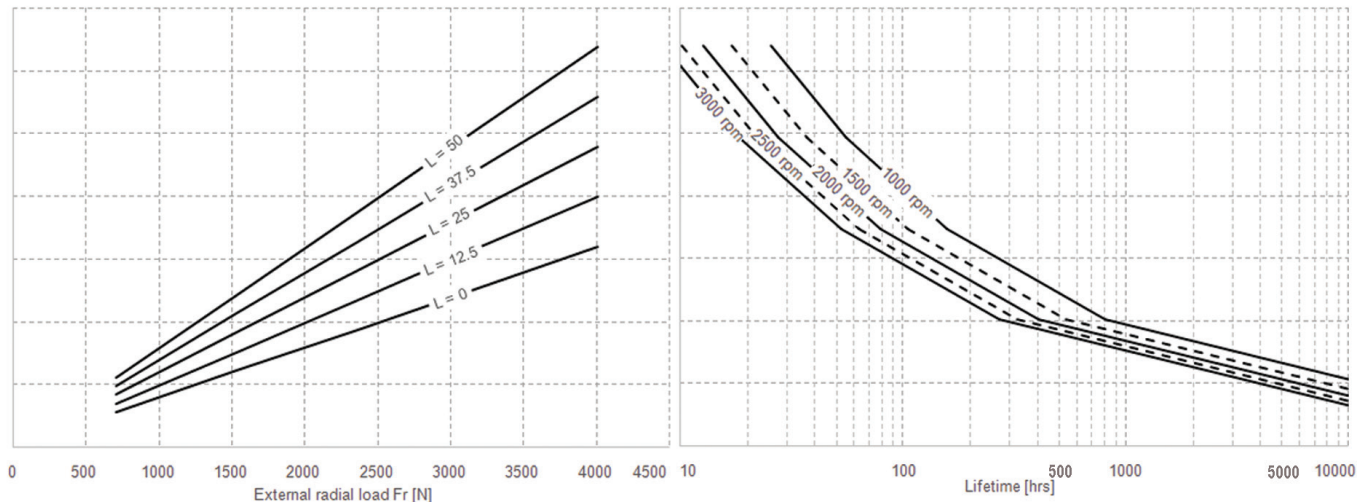
Speed = 1000 rpm

Expected life: 700 hrs

For Code CP



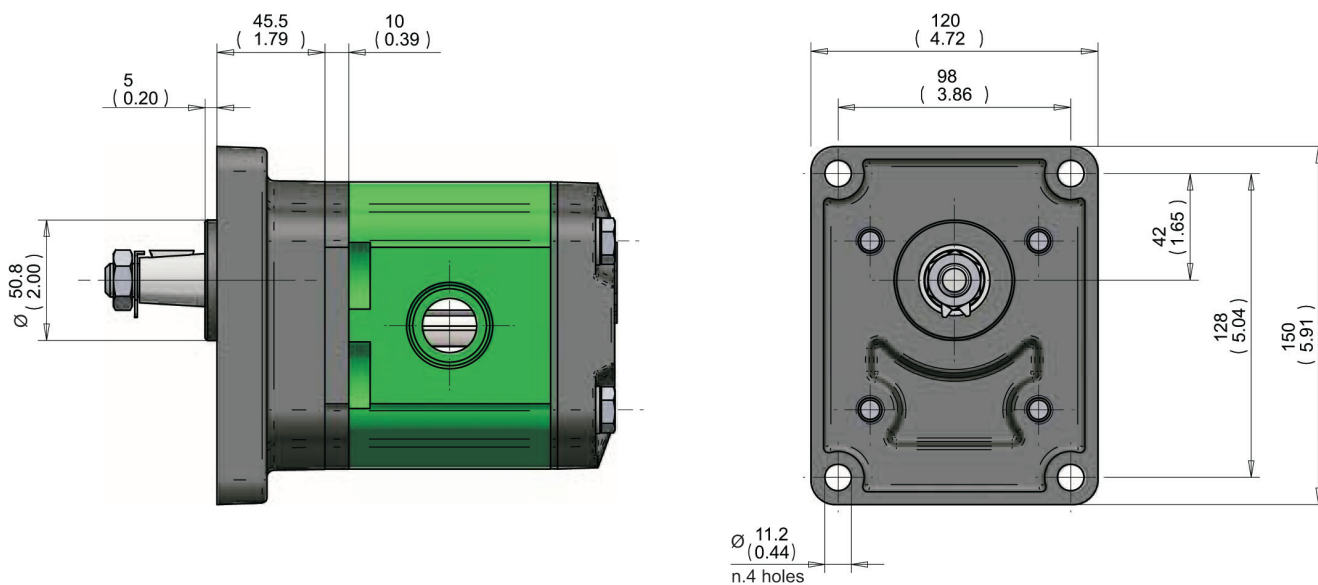
For Code Z1



E0.138.0219.02.00IM05



MOUNTING FLANGES WITH BEARING



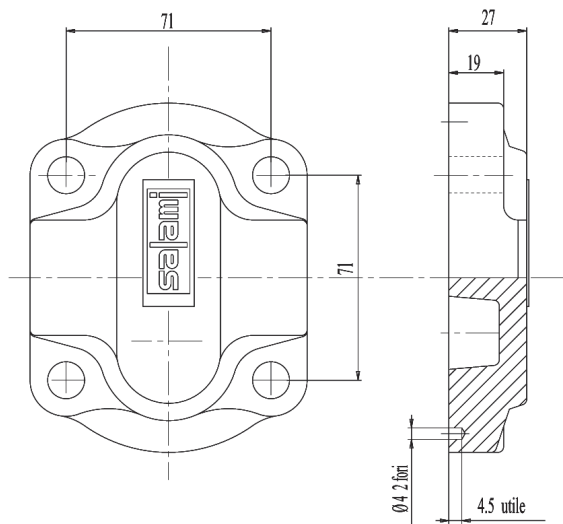
CP

European standard mounting flange

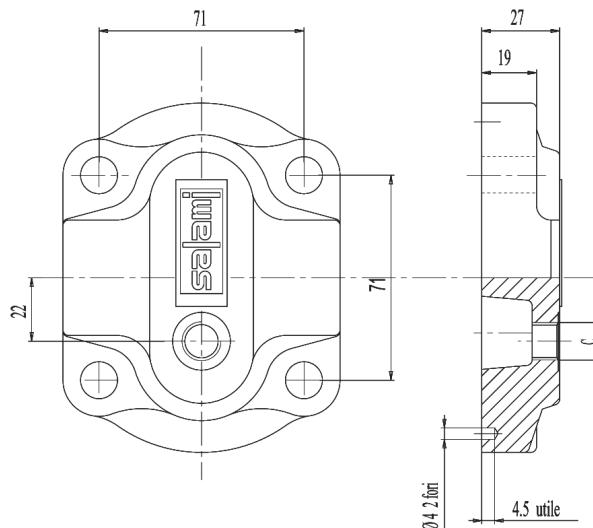
With shaft code 38 (see page 180)

EO.138.0219.02.001M05

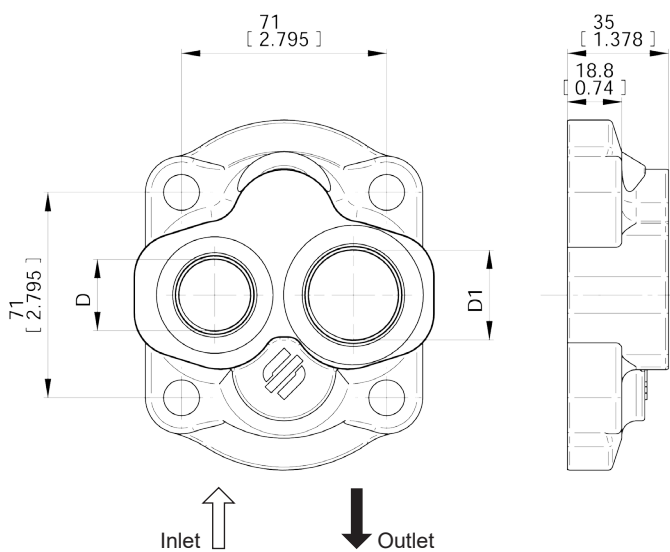
REAR COVERS



Standard rear cover for unidirectional motors



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



UNIDIRECTIONAL MOTORS

On request outlet port only.

| D | D1 |
|-------------------------|-------------------------|
| 1-1/16-12 UN-2B (SAE12) | 1-5/16-12 UN-2B (SAE16) |
| G3/4 | G1 |

On request outlet port only.

code 1

BIDIRECTIONAL MOTORS

| D | C |
|-------------------------|-----------------------|
| 1-1/16-12 UN-2B (SAE12) | 9/16-18 UNF-2B (SAE6) |
| G3/4 | G3/8 |

In phase of order please specify D and C dimensions.

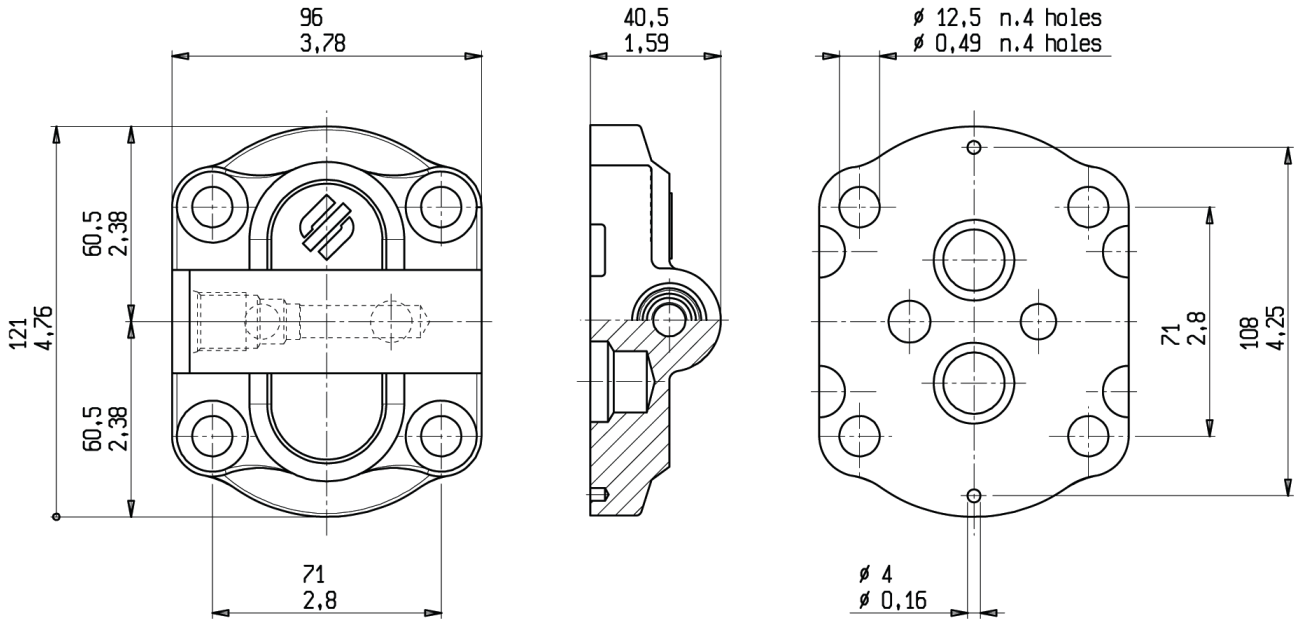
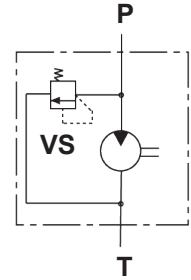
E0.138.0219.02.00IM05



REAR COVERS WITH RELIEF VALVE

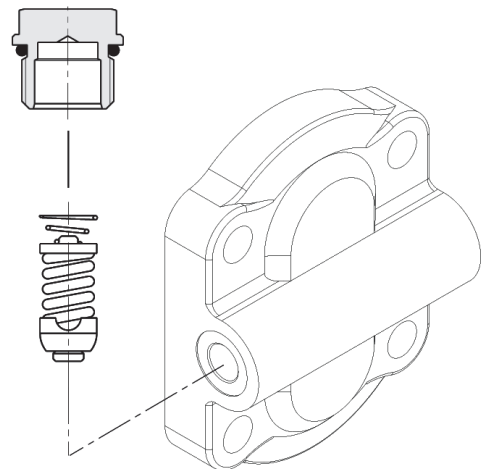
code VS

With main relief valve
with internal unloading line.
Rear cover with fixed setting main relief valve.



Available values of fixed setting

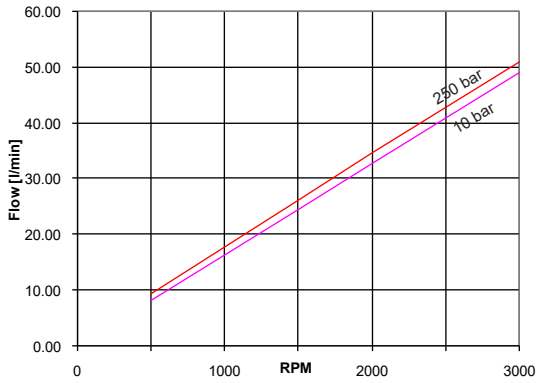
| bar | psi | bar | psi |
|-----|------|-----|------|
| 25 | 362 | 160 | 2320 |
| 32 | 464 | 175 | 2538 |
| 40 | 580 | 190 | 2756 |
| 50 | 725 | 210 | 3046 |
| 63 | 914 | 230 | 3336 |
| 80 | 1160 | 250 | 3626 |
| 100 | 1450 | 280 | 4061 |
| 125 | 1813 | 315 | 4569 |
| 140 | 2030 | 350 | 5076 |



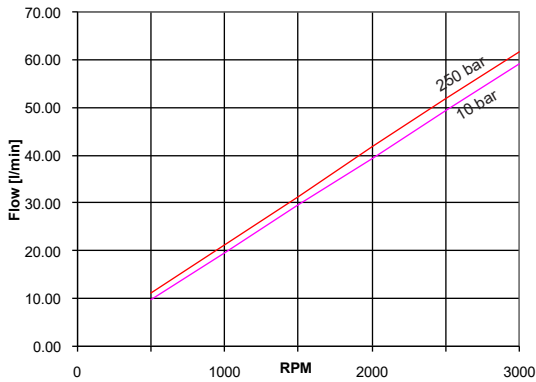
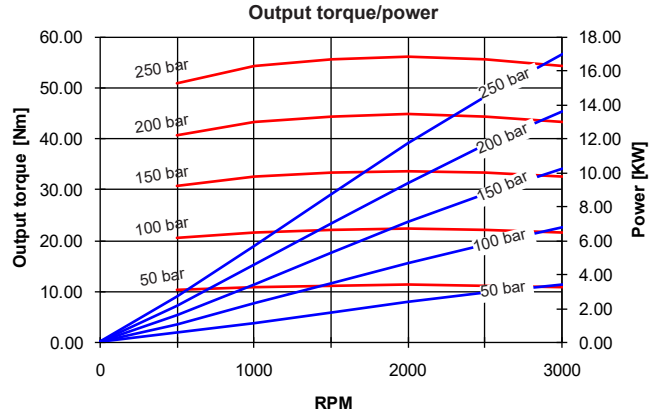
EO.138.0219.02.001M05

PERFORMANCE CURVES

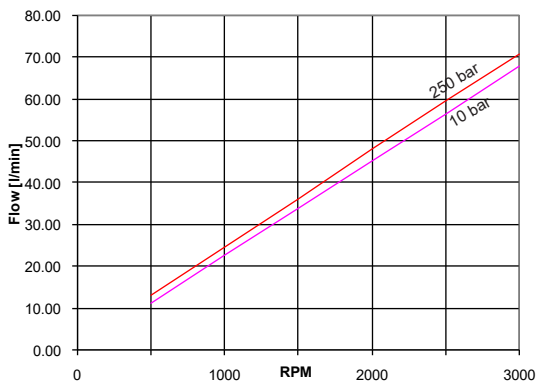
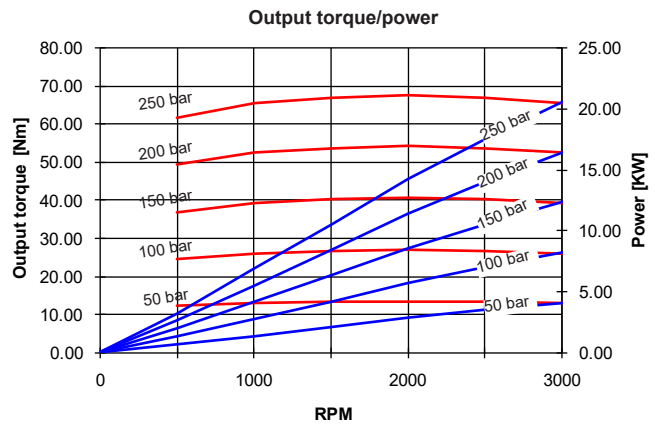
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C



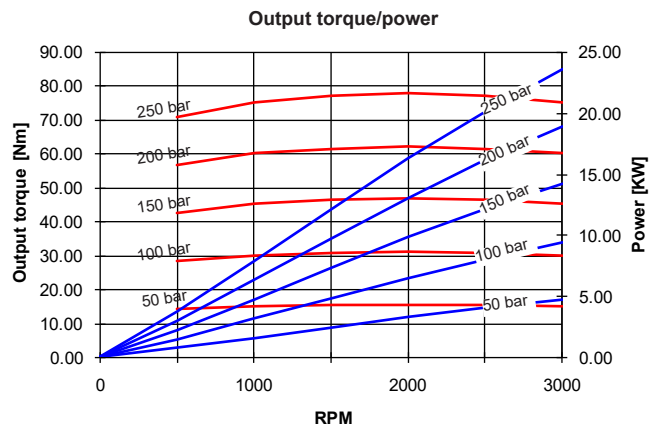
2.5MB - 16



2.5MB - 19



2.5MB - 22

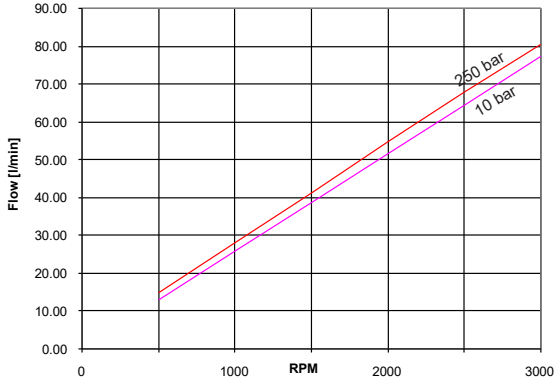


E0.138.0219.02.00IM05

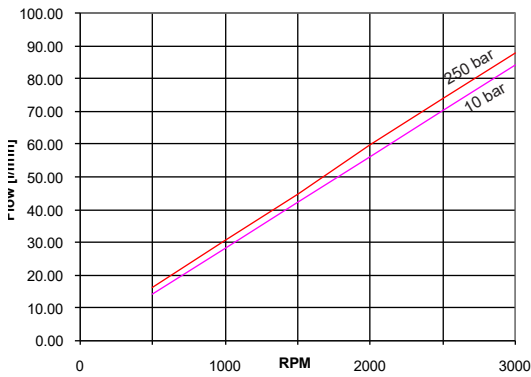
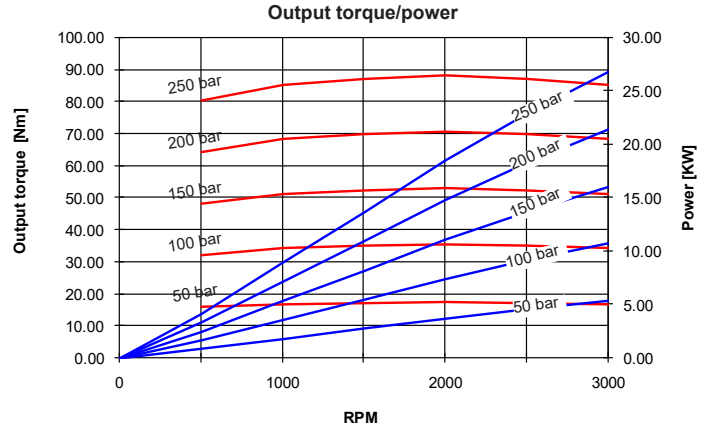


PERFORMANCE CURVES

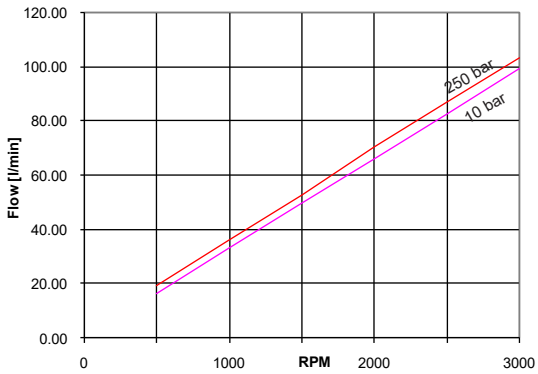
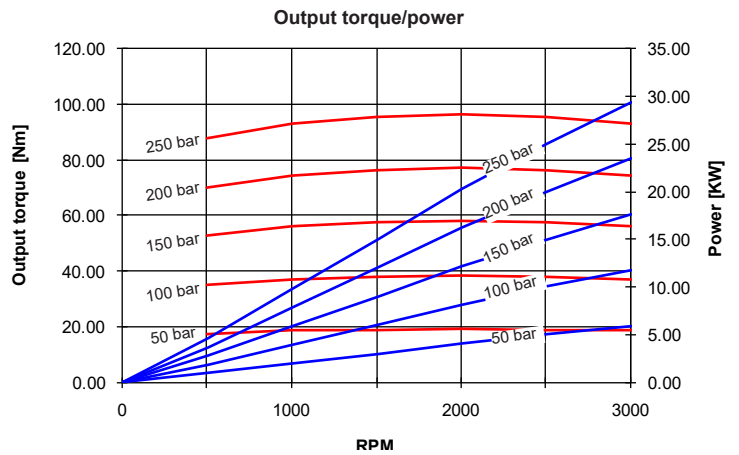
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C



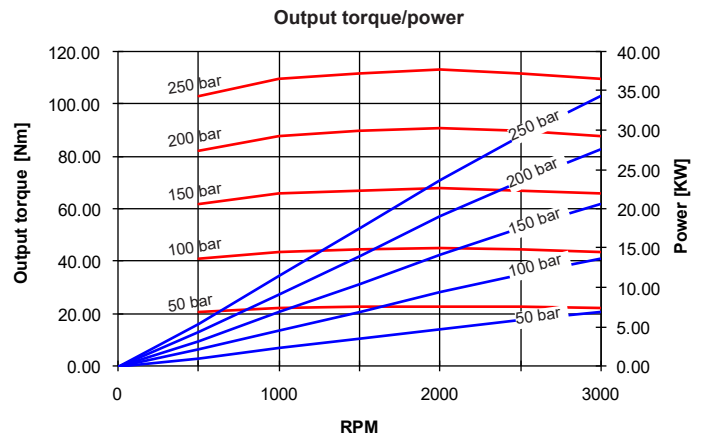
2.5MB - 25



2.5MB - 28



2.5MB - 32

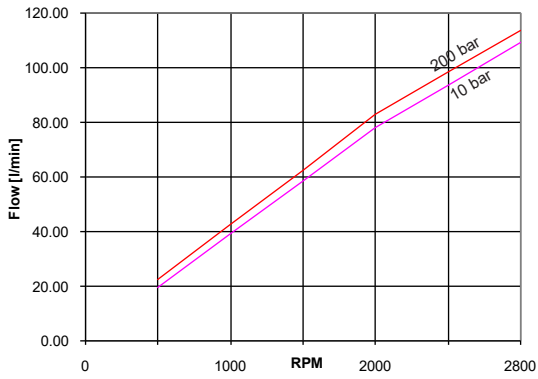


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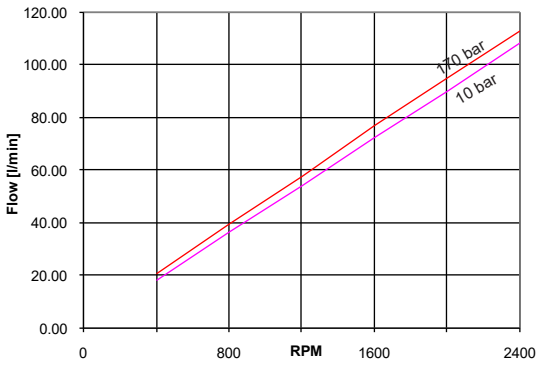
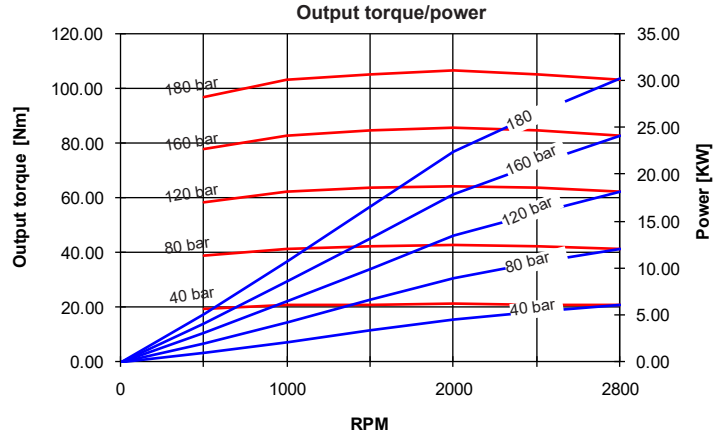


PERFORMANCE CURVES

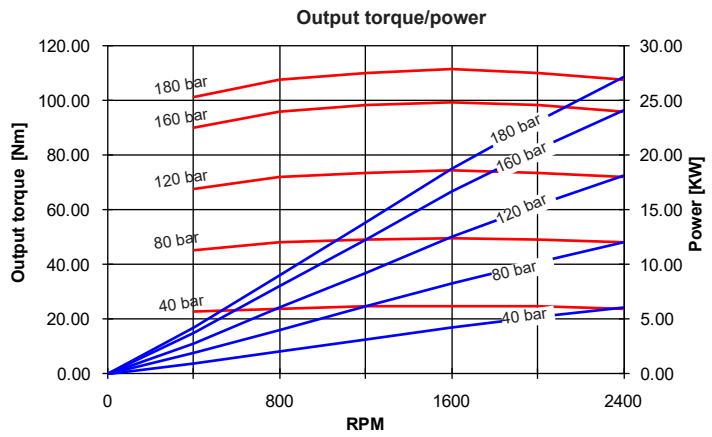
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C



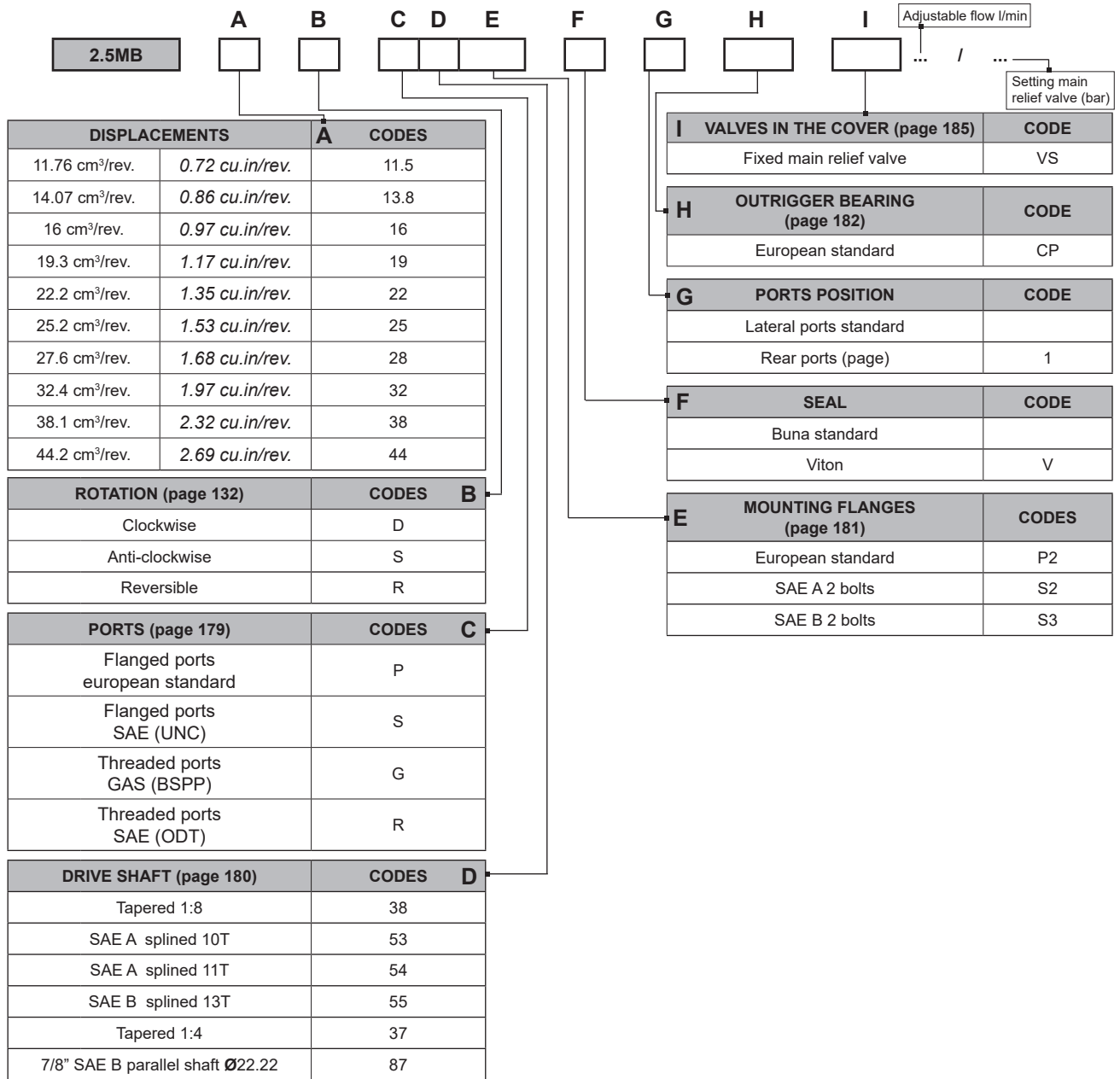
2.5MB - 38



2.5MB - 44



SINGLE MOTORS



Order example: 2.5MB 19D, ports european standard (P), drive shaft (55), mounting flange (S2) with valve in the cover (VS 190 bar)
2.5MB19D-P55S2-VS190

EO.138.0219.02.001M05



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