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# 3ME

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## Aluminium gear motors

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### Technical Catalogue

E0.130.0416.02.00IM02



**GEAR MOTORS**

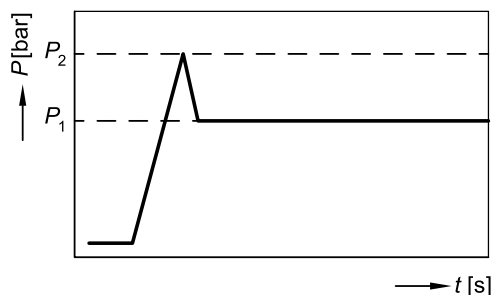
- Displacements from 2.8 cm<sup>3</sup>/rev to 73.4 cm<sup>3</sup>/rev (from 0.17 cu.in./rev to 4.48 cu.in./rev).
- Rated pressure up to 250 bar (3625psi).
- Back pressure capability up to 120 bar (1740 psi) only in bi-directional release.
- Speed up to 4500 rpm.
- Flanges, shafts and ports for ISO, 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 <sup>2</sup> /sec
- Permitted viscosity range	12 - 800 mm <sup>2</sup> / sec
- Recommended viscosity range	20 - 80 mm <sup>2</sup> / sec
- Permitted viscosity for starting	2000 mm <sup>2</sup> / 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).

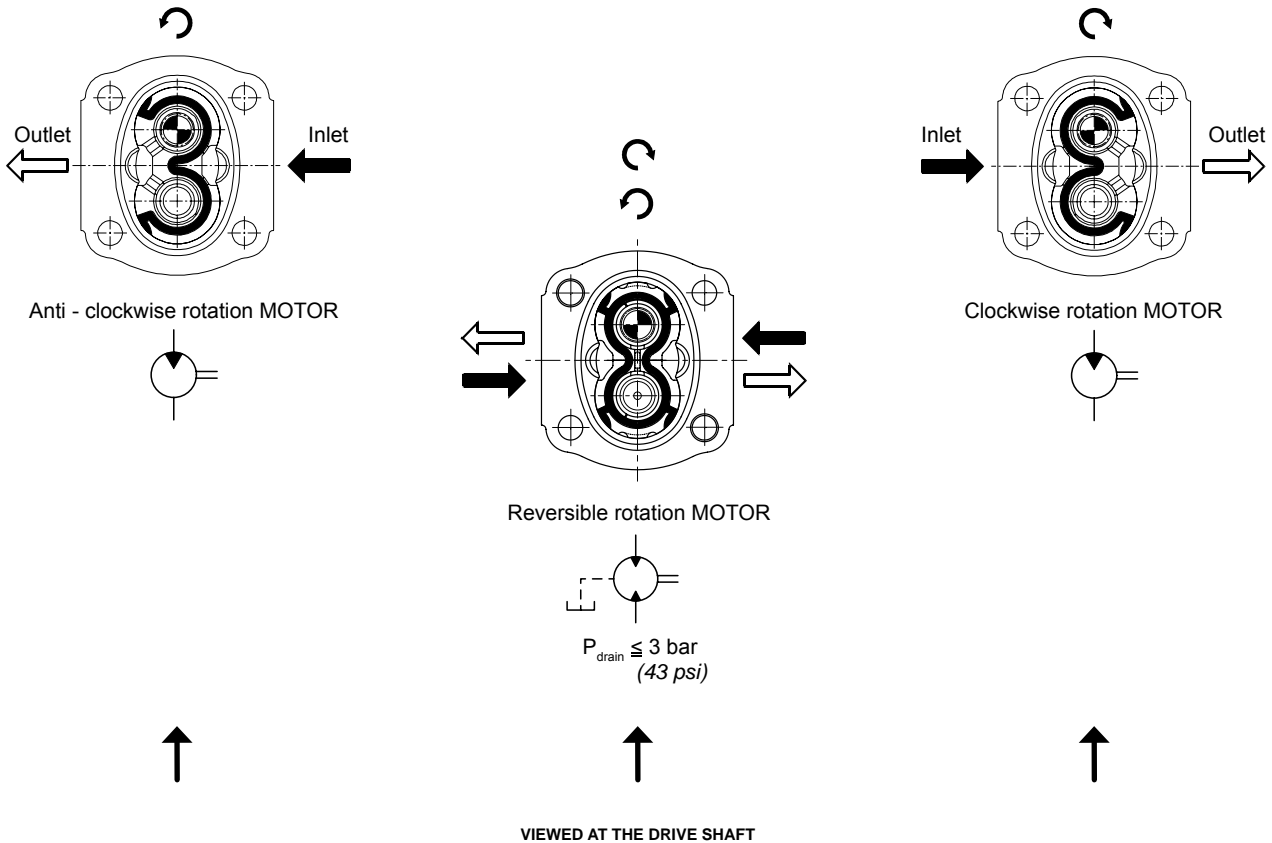
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## DRIVE SHAFTS

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 $\mu\text{m}$	25 $\mu\text{m}$

**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

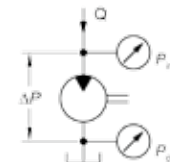
Input flow:  $Q = \frac{V \cdot n}{231 \cdot \eta_v}$  [US gal/min]

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 cm<sup>3</sup>/rev [in<sup>3</sup>/rev]
- $P_{out}$  = Outlet pressure bar [psi]
- $P_{in}$  = Inlet pressure bar [psi]
- $\Delta P$  =  $P_{out} - P_{in}$  (system pressure) bar [psi]
- n = Speed min<sup>-1</sup> (rpm)
- $\eta_v$  = Volumetric efficiency
- $\eta_m$  = Mechanical efficiency
- $\eta_t$  = Overall efficiency ( $\eta_v \cdot \eta_m$ )



**IDENTIFICATION LABEL**

**salami**  
FLUID POWER SYSTEMS

Made in Italy

Salami part number **613011042**

Product short description **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

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

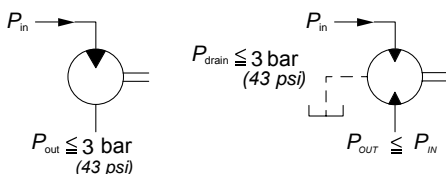
GROUP 2 - E SERIES	Displacement		Max. continuous pressure P <sup>1</sup>		Max. starting pressure P <sup>2</sup>		Max. speed	Min. speed
	cm <sup>3</sup> /rev	cu.in/rev	bar	psi	bar	psi		
2ME - 4.5	4.6	0.27	250	3625	280	4060	4000	600
2ME - 6.5	6.5	0.4	250	3625	280	4060	4000	600
2ME - 8.3	8.2	0.5	250	3625	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

GROUP 2.5 - B SERIES	Displacement		Max. continuous pressure P <sup>1</sup>		Max. starting pressure P <sup>2</sup>		Max. speed	Min. speed
	cm <sup>3</sup> /rev	cu.in/rev	bar	psi	bar	psi		
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

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

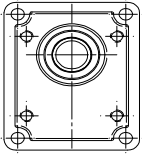
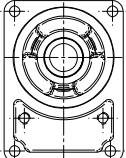
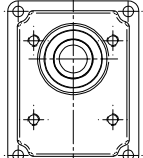
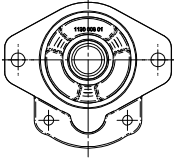



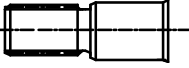

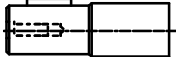
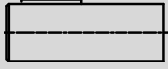
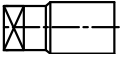
The policy of Salami S.p.A. consists of a continuous improvement of its products. It reserves the right to change the specifications of the different products whenever necessary and without giving prior information.

***If any doubts, please get in touch with our sales department.***





**SHAFTS AND FLANGES COMBINATIONS**

<p><b>3ME</b></p>	 CODE <b>P2</b> - European stand.	 CODE <b>B6</b> - German stand.	 CODE <b>P3</b> - European stand. for 3,5PC	 CODE <b>S3</b> - SAE B
 CODE <b>35</b> - Tapered 1:5		35B6		
 CODE <b>38</b> - Tapered 1:8	38P2			
 CODE <b>48</b> - Tapered 1:8 for 3,5PC			48P3	
 CODE <b>55</b> - SAE B 13T				55S3
 CODE <b>56</b> - SAE BB 15T				56S3
 CODE <b>87</b> - SAE B parallel				87S3
 CODE <b>88</b> - SAE BB parallel				88S3
 CODE <b>05</b> - Tang drive for electric motors		05B6		

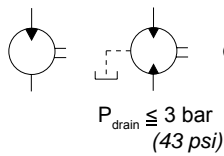
Note: other versions available, see shafts and flanges information.

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Displacements up to 4.48 cu.in./rev  
Pressure up to 4350 psi



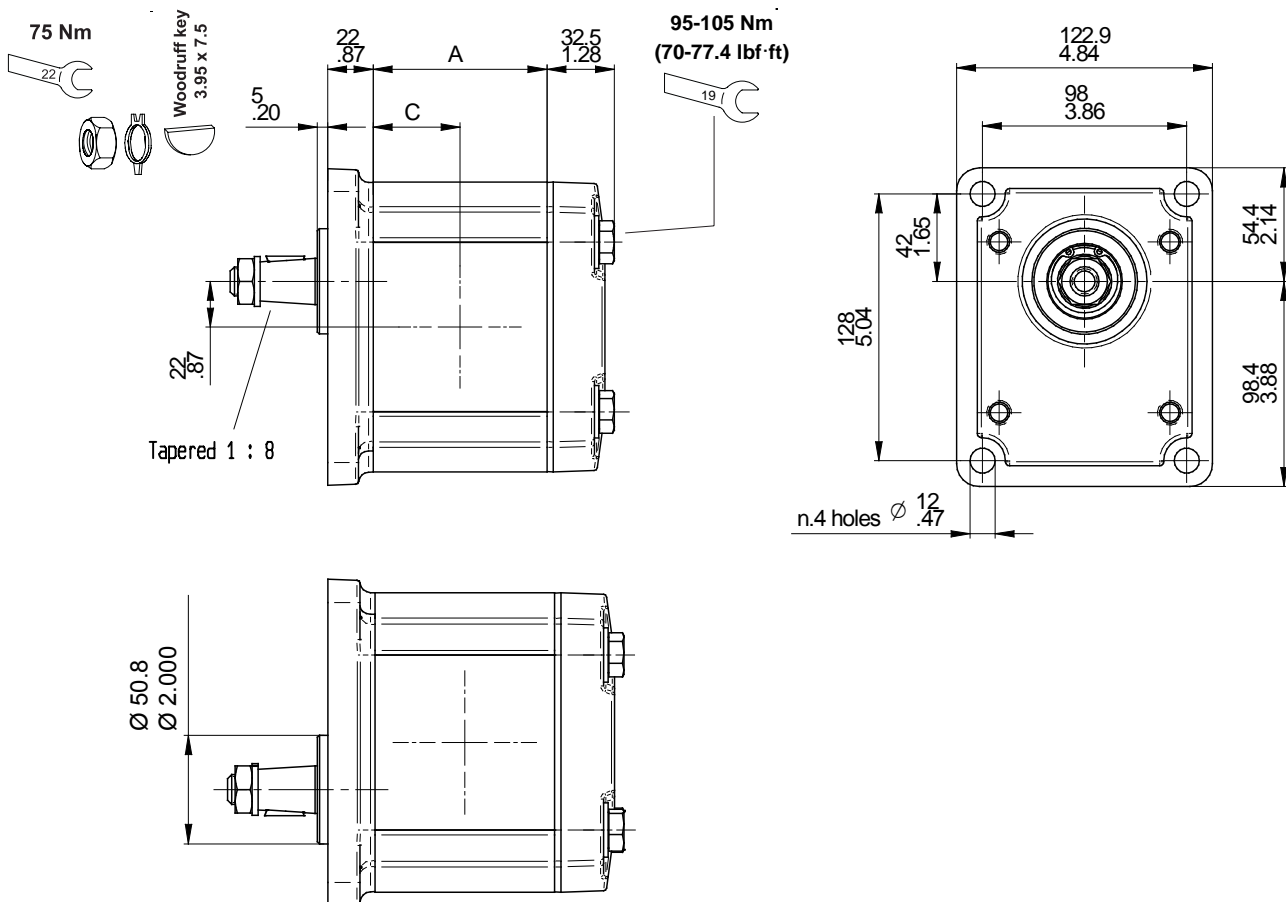
GEAR MOTORS

Displacements up to 73.4 cm<sup>3</sup>/rev  
Pressure up to 300 bar

## ASSEMBLING DIMENSIONS

Type		27	33	38	46	55	65	75*
Displacement	cm <sup>3</sup> /rev	27	33.5	38.7	46.9	54.1	63.1	73.4
	cu.in./rev	1.65	2.04	2.36	2.86	3.3	3.85	4.48
Dimension A	mm	79	84	88	104	110	117	124
	in	3.11	3.31	3.46	4.09	4.33	4.61	4.88
Dimension C	mm	39.5	42	44	52	55	58.5	62
	in	1.56	1.65	1.73	2.05	2.17	2.30	2.44
Weight	kg	8.9	9.1	9.4	10.1	10.5	10.8	11.2
	lbs	19.6	20.1	20.6	22.3	23	23.8	24.6

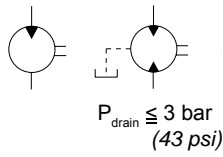
\*Displacement 75 is special release, please contact sales department.



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Displacements up to 4.48 cu.in./rev  
Pressure up to 4350 psi



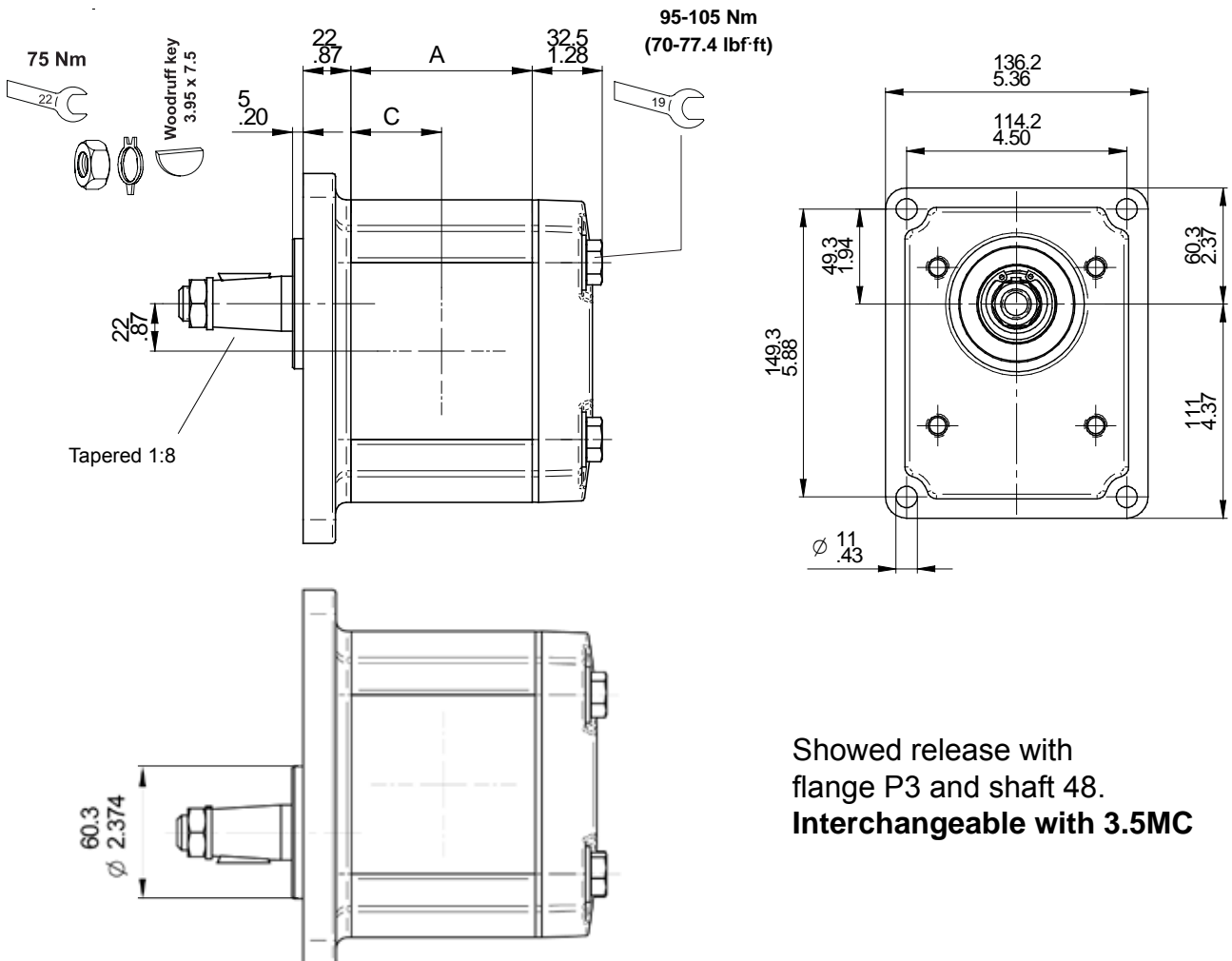
**GEAR MOTORS**

Displacements up to 73.4 cm<sup>3</sup>/rev  
Pressure up to 300 bar

**ASSEMBLING DIMENSIONS**

Type		46	55	65	75*
Displacement	cm <sup>3</sup> /rev	46.9	54.1	63.1	73.4
	cu.in./rev	2.86	3.3	3.85	4.48
Dimension A	mm	104	110	117	124
	in	4.09	4.33	4.61	4.88
Dimension C	mm	52	55	58.5	62
	in	2.05	2.17	2.30	2.44
Weight	kg	10.1	10.5	10.8	11.2
	lbs	22.3	23	23.8	24.6

\*Displacements 75 are special release, please contact sales department.

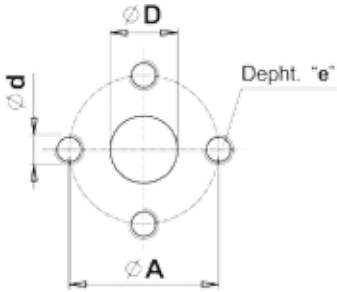


Showed release with flange P3 and shaft 48.  
**Interchangeable with 3.5MC**

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FLANGED AND THREADED PORTS



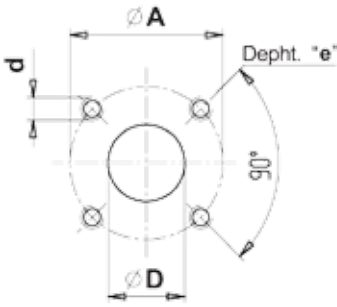
code P

Flanged ports  
European standard

UNI-DIRECTIONAL MOTORS	TYPE	OUTLET				INLET			
		Ø D	Ø A	d	e	Ø D	Ø A	d	e
From 27 to 55	27 (1.06")	51 (2.01")	M10	16 (0.63")	16 (0.63")	40 (1.57")	M8	16 (0.63")	
	From 65 to 75	33 (1.3")	62 (2.44")		M12	21 (0.83")	51 (2.01")		M10



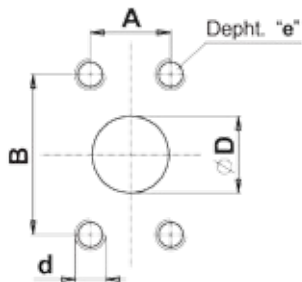
BI-DIRECTIONAL MOTORS	TYPE	OUTLET				INLET			
		Ø D	Ø A	d	e	Ø D	Ø A	d	e
27	19 (0.75")	40 (1.57")	M8	16 (0.63")	19 (0.75")	40 (1.57")	M8	16 (0.63")	
From 33 to 75	27 (1.06")	51 (2.01")	M10		27 (1.06")	51 (2.01")	M10		



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 27 to 75	27 (1.06")	55 (2.17")	M8	13 (0.51")	19 (0.75")	55 (2.17")	M8	13 (0.51")	



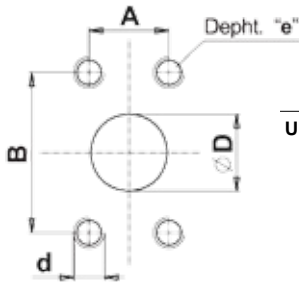
code W

Flanged ports  
SAE J518  
METRIC THREAD

UNI-DIRECTIONAL MOTORS	TYPE	OUTLET					INLET				
		ØD	B	A	d	e	ØD	B	A	d	e
From 27 to 38	26 (1.02")	52.4 (2.06")	26.2 (1.03")	M10	18 (0.71")	19 (0.75")	47.6 (1.87")	22.2 (0.87")	M10	18 (0.71")	
	From 46 to 75	32 (1.26")	58.7 (2.31")			30.2 (1.19")	26 (1.02")	52.4 (2.06")			26.2 (1.03")

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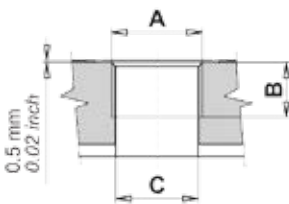


UNI-DIRECTIONAL MOTORS	TYPE	OUTLET					INLET				
		ØD	B	A	d	e	ØD	B	A	d	e
	From 27 to 38	26 (1.02")	52.4 (2.06")	26.2 (1.03")	3/8 16 UNC	18 (0.71")	19 (0.75")	47.6 (1.87")	22.2 (0.87")	3/8 16 UNC	18 (0.71")
	From 46 to 75	32 (1.26")	58.7 (2.31")	30.2 (1.19")	7/16 14 UNC		26 (1.02")	52.4 (2.06")	26.2 (1.03")		

**code S**

Flanged ports  
SAE J518  
AMERICAN STANDARD  
THREAD

UNI-DIRECTIONAL MOTORS	TYPE	OUTLET			INLET		
		A	B	C	A	B	C
	From 27 to 38	G1	22 (0.86")	27 (1.06")	G1	22 (0.86")	27 (1.06")
	From 46 to 75	G1 1/4	24 (0.94")	32.5 (1.28")			

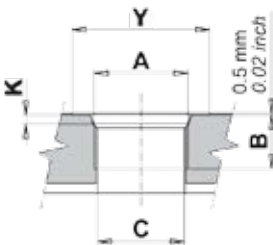


**code G**

Threaded ports  
GAS (BSPP)

BI-DIRECTIONAL MOTORS	TYPE	OUTLET			INLET		
		A	B	C	A	B	C
	From 27 to 75	G1	22 (0.86")	30.5 (1.20")	G1	22 (0.87")	30.5 (1.20")

UNI-DIRECTIONAL MOTORS	TYPE	OUTLET					INLET				
		A	B	C	Y	K	A	B	C	Y	K
	From 27 to 38	1-5/16-12 UN (SAE 16)	19 (0.75")	25 (0.98")	49 (1.93")	3.3 (0.12")	1-1/16-12 UN (SAE 12)	19 (0.75")	21 (0.83")	41 (1.61")	3.3 (0.13")
	From 46 to 75	1-5/8-12 UN (SAE 20)		27 (1.06")	58 (2.28")		1-5/16-12 UN (SAE 16)		25 (0.98")	49 (1.93")	



**code R**

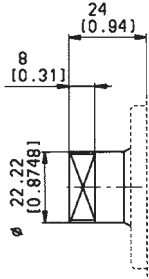
Threaded ports  
SAE (ODT)

BI-DIRECTIONAL MOTORS	TYPE	OUTLET					INLET				
		A	B	C	Y	K	A	B	C	Y	K
	From 27 to 38	1-1/16-12 UN (SAE 12)	19 (0.75")	21 (0.83")	41 (1.61")	3.3 (0.12")	1-1/16-12 UN (SAE 12)	19 (0.75")	21 (0.83")	41 (1.61")	3.3 (0.13")
	From 46 to 75	1-5/16-12 UN (SAE 16)		25 (0.98")	49 (1.93")		1-5/16-12 UN (SAE 16)		25 (0.98")	49 (1.93")	

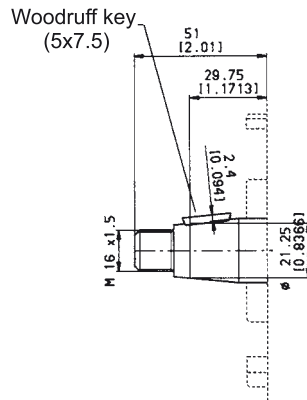
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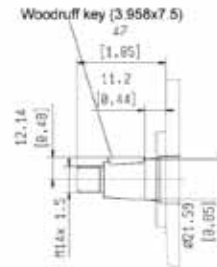
DRIVE SHAFTS



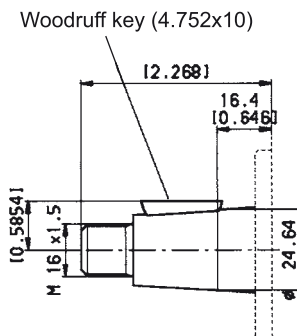
**code 05** Max torque 180 Nm (1590 lbf in)  
Tang drive for electric motors



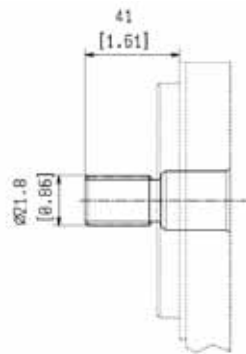
**code 35** Max torque 260 Nm (2300 lbf in)  
European tapered 1:5



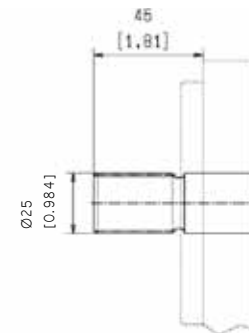
**code 38** Max torque 250 Nm (2213 lbf in)  
European tapered 1:8



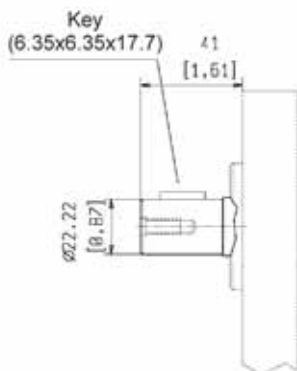
**code 48** Max torque 350 Nm (3100 lbf in)  
European tapered 1:8 for 3.5PC



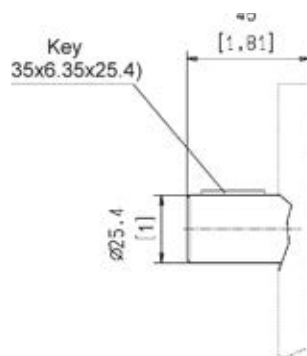
**code 55** Max torque 330 Nm (2921 lbf in)  
SAE B 13T-16/32DP Ansi B92 1a 1976



**code 56** Max torque 480 Nm (4250 lbf in)  
SAE BB 15T-16/32DP Ansi B92 1a 1976



**code 87** Max torque 220 Nm (1950 lbf in)  
SAE B Parallel

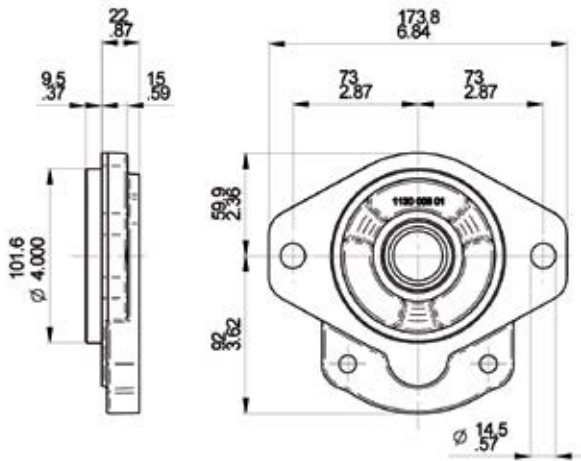


**code 88** Max torque 320 Nm (2830 lbf in)  
SAE BB Parallel

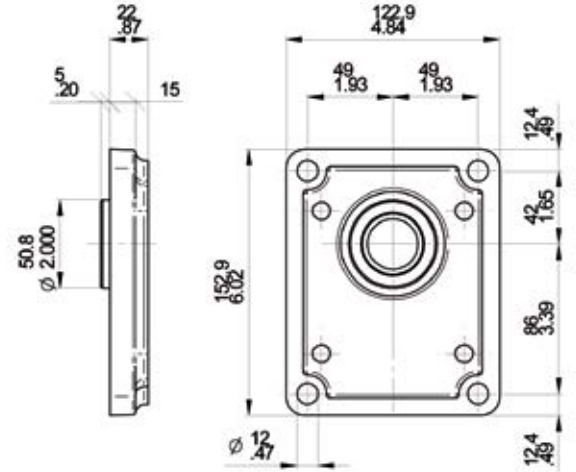
E0.130.0416.02.00IM03



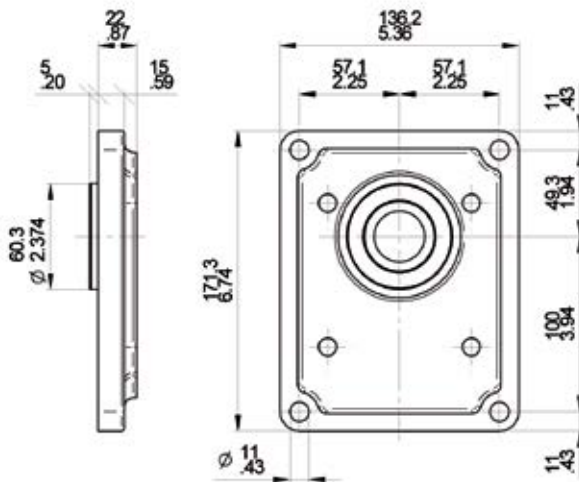
**MOUNTING FLANGES**



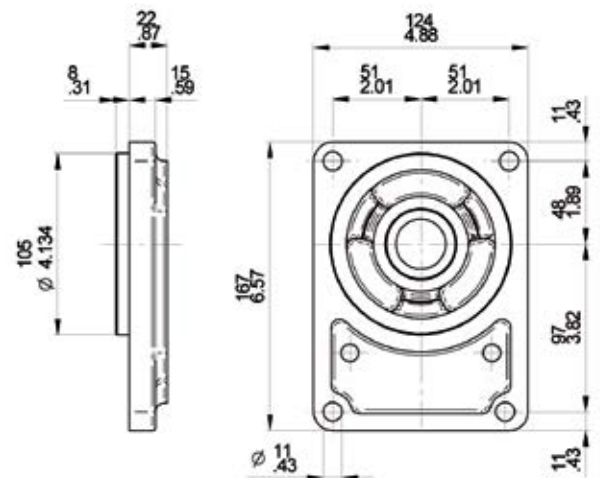
<b>S3</b>	<b>SAE B</b>
With shaft code 55-56-87-88	



<b>P2</b>	<b>European standard</b>
With shaft code 38	



<b>P3</b>	<b>European standard</b>
With shaft code 48	



<b>B6</b>	<b>German standard</b>
With shaft code 05-35	

EO.130.0416.02.001M03



OUTRIGGER BEARING

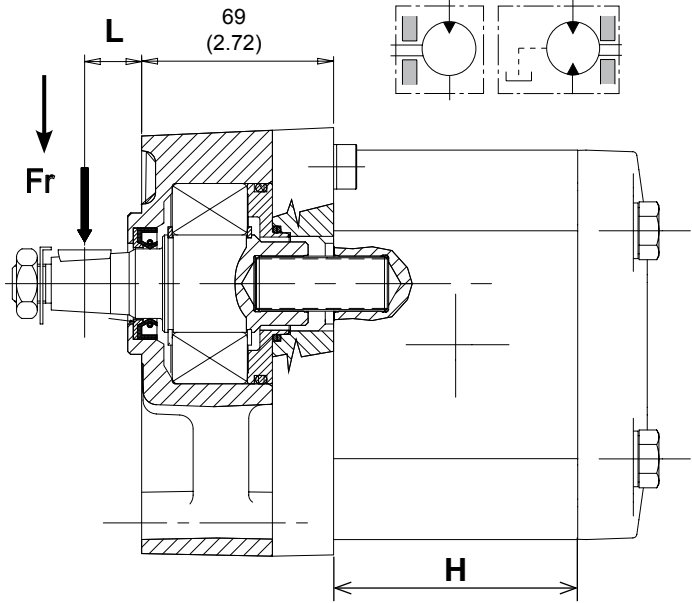
The following diagrams show radial load capability of the bearing.

Calculation according to ISO 281 at 10 cSt.

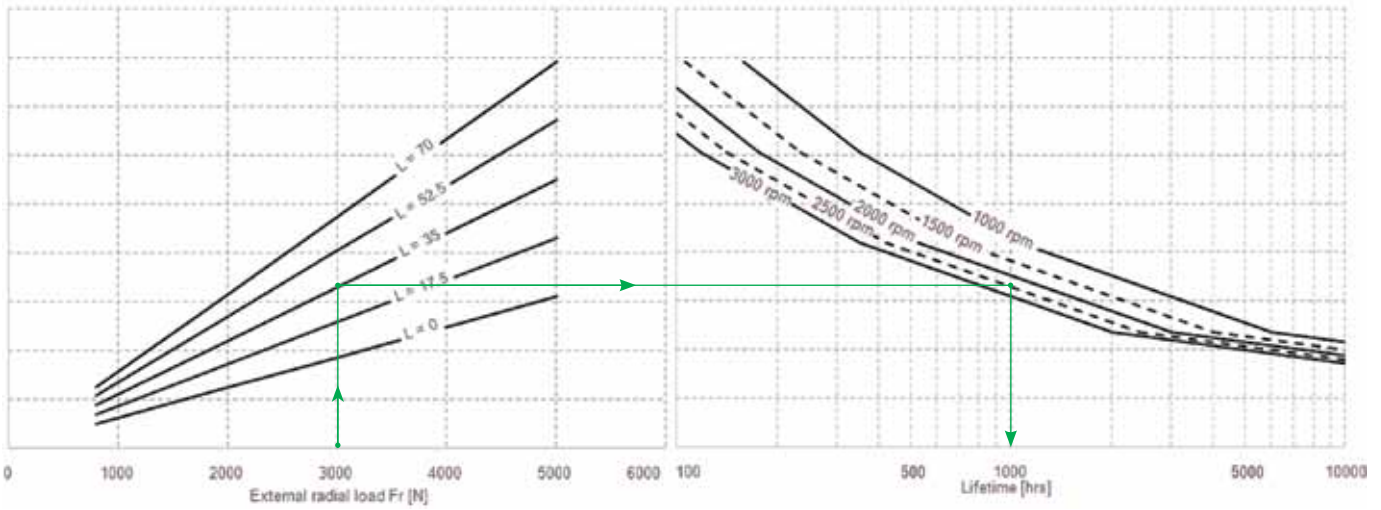
TYPE	H
27	79 (3.11")
33	84 (3.31")
38	88 (3.46")
46	104 (4.09")
55	110 (4.33")
65	117 (4.61")

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

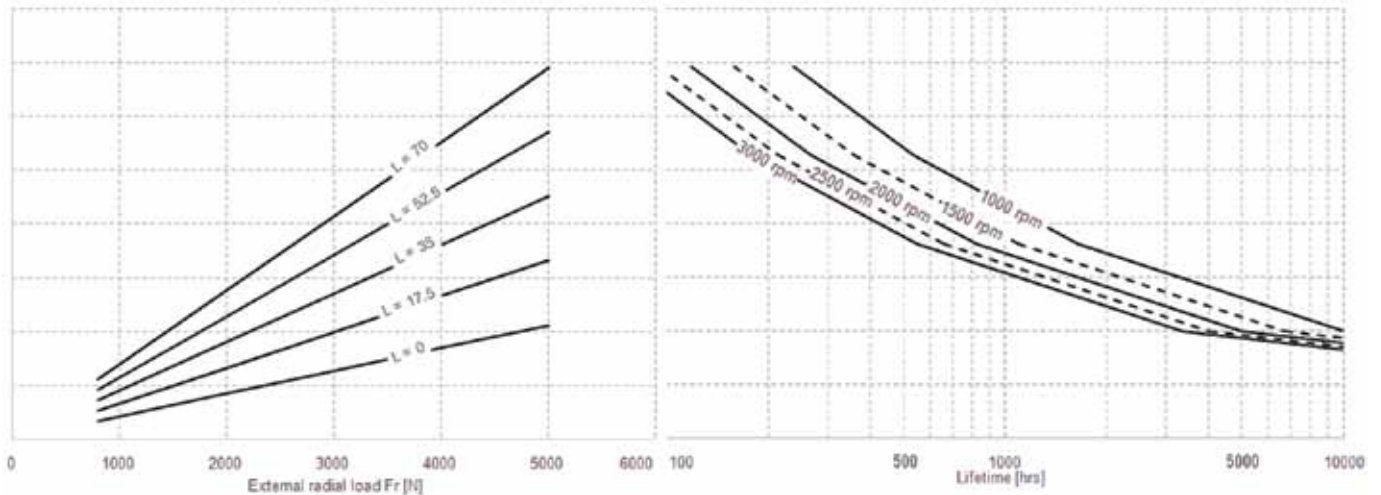
Example:  
Fr = 3000 N → Expected life: 1000 hrs  
L = 35  
Speed = 2500 rpm



For Code CP



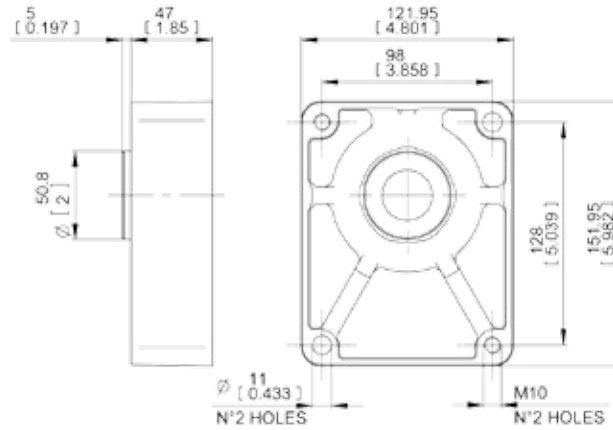
For Code CSB



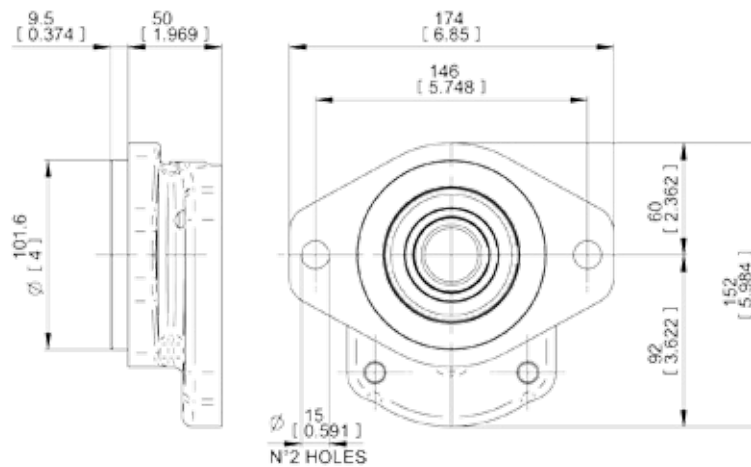
E0.130.0416.02.00IM03



**MOUNTING FLANGES WITH OUTRIGGER BEARING SUPPORT**



<b>CP</b>	<b>European standard <math>\varnothing 50.8</math> mm</b>
With shaft code 38	



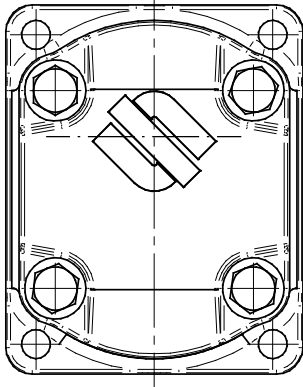
<b>CSB</b>	<b>SAE B</b>
With shaft code 55-56-87-88	

EO.130.0416.02.001M03

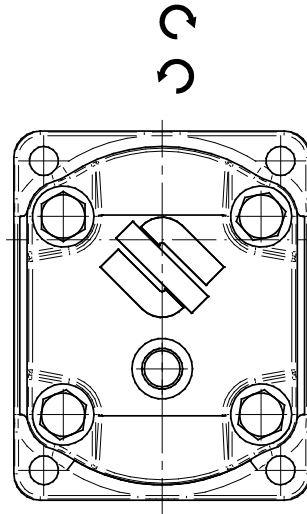




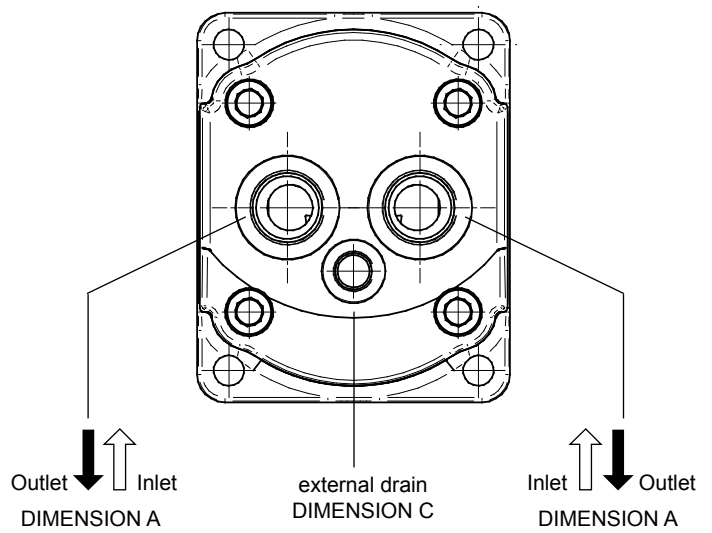
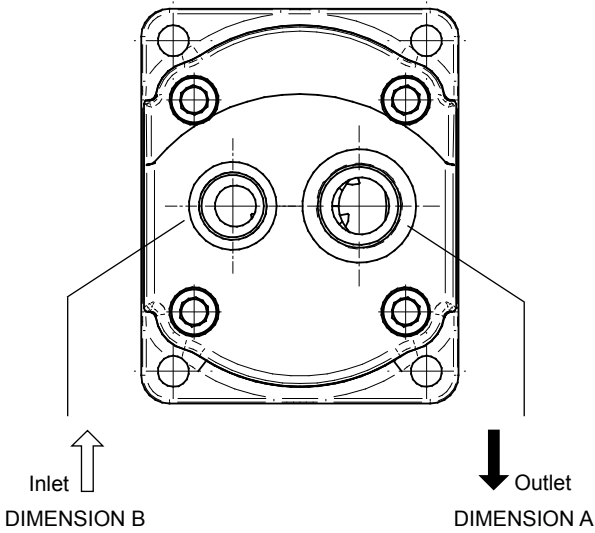
REAR COVERS



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

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

code 1

BIDIRECTIONAL MOTORS

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

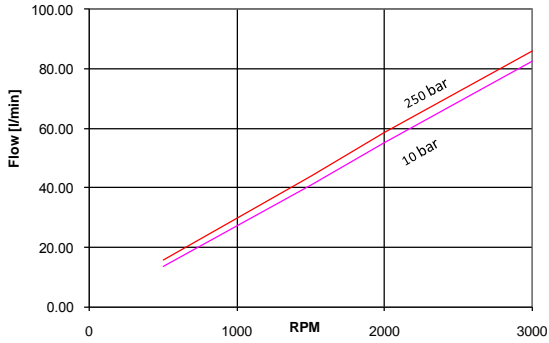
E0.130.0416.02.00IM03



**PERFORMANCE CURVES**

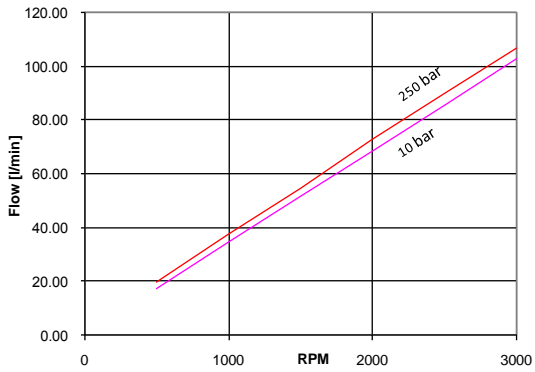
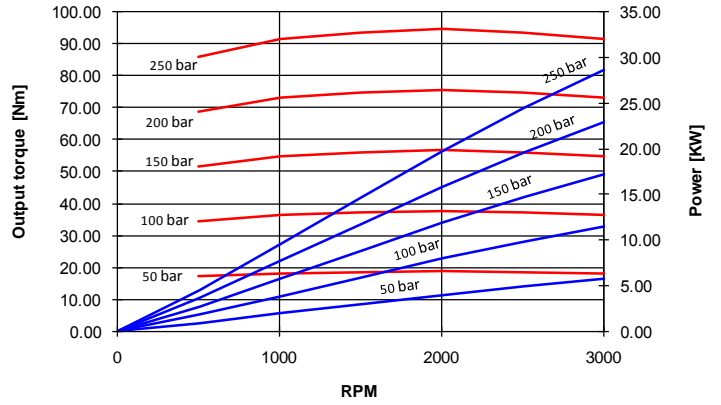
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C

**INPUT FLOW**



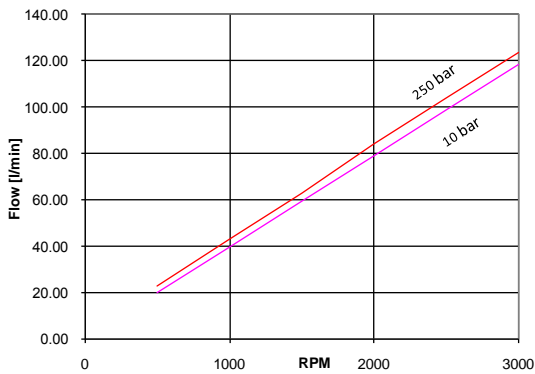
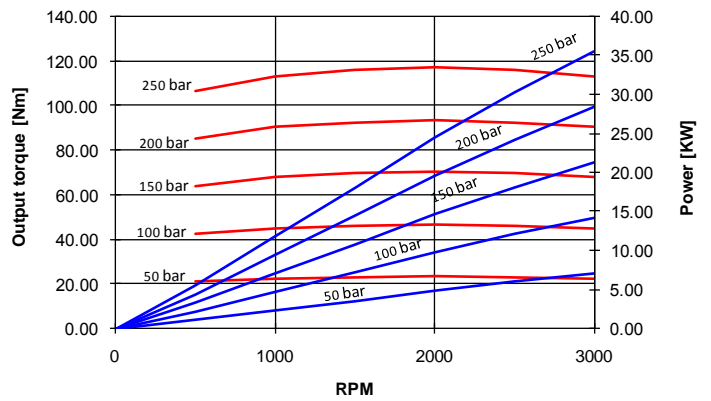
**3ME - 27**

**Output torque / Power**



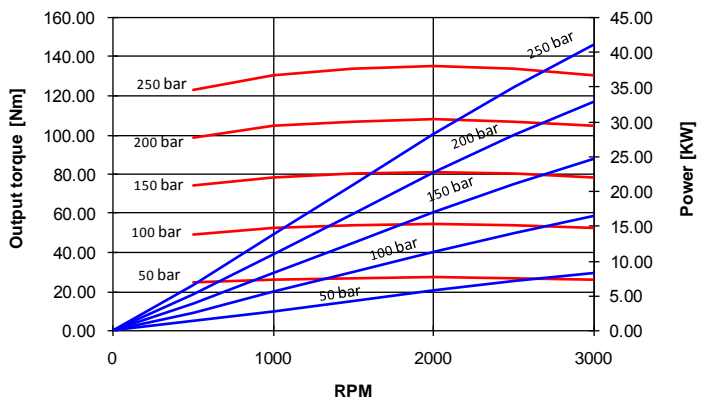
**3ME - 33**

**Output torque / Power**



**3ME - 38**

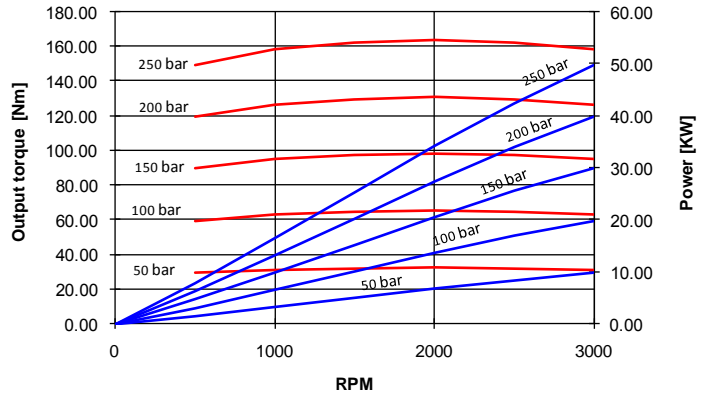
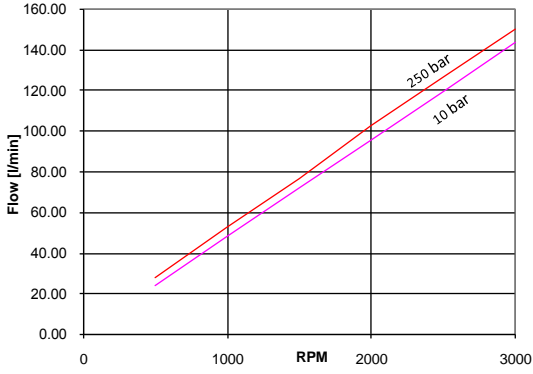
**Output torque / Power**



EO.130.0416.02.001M03

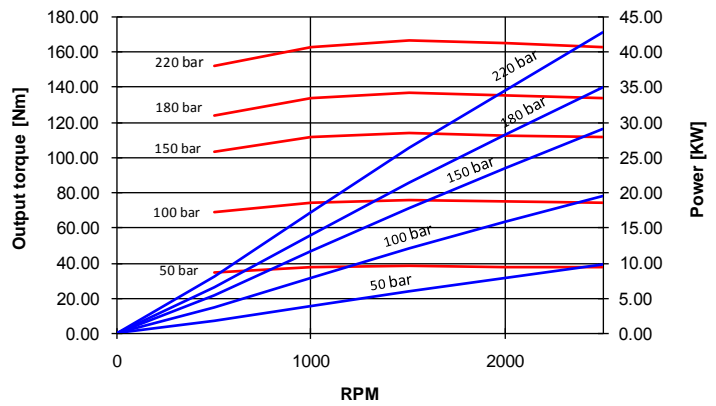
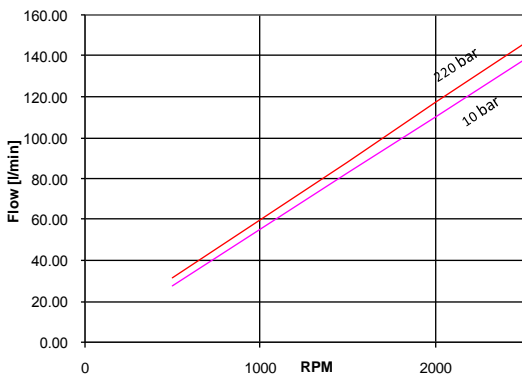


Output torque / Power



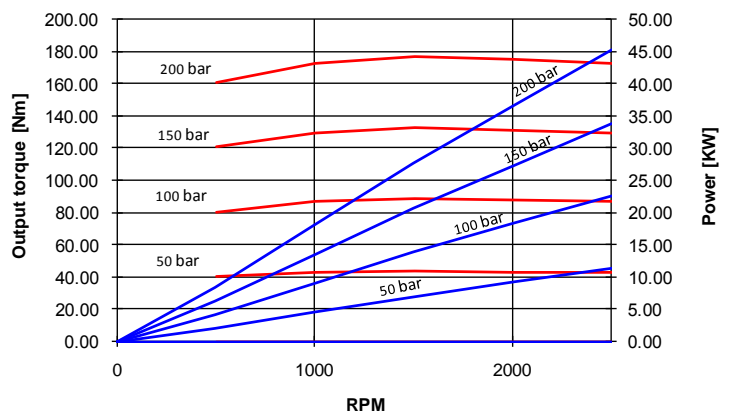
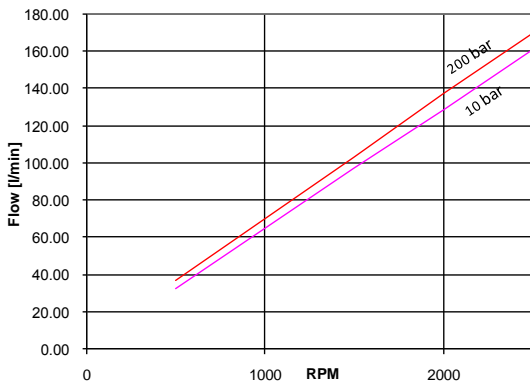
3ME - 46

Output torque / Power



3ME - 55

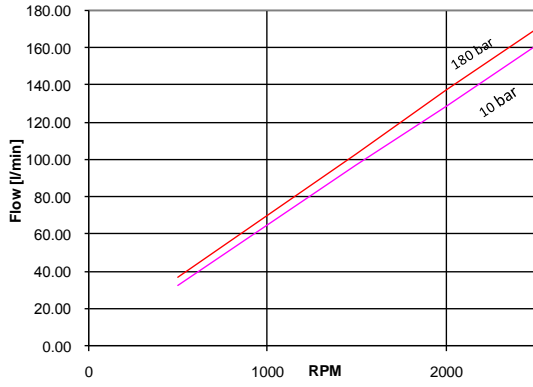
Output torque / Power



3ME - 65

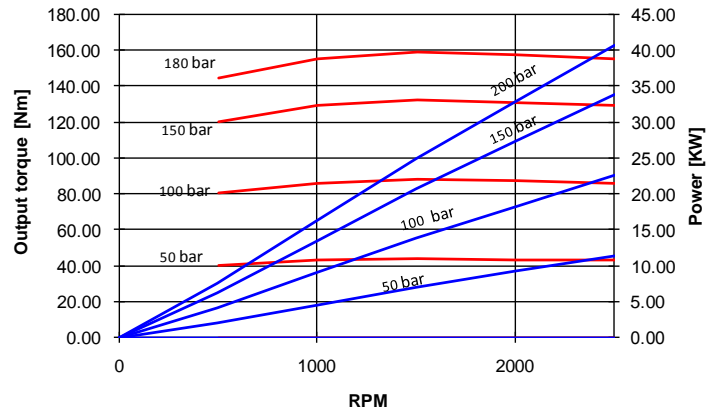
E0.130.0416.02.00IM03



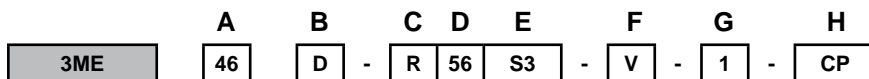


**3ME - 75**

**Output torque / Power**



## SINGLE MOTORS



TYPE	A	DISPLACEMENTS
21		20.6 cm <sup>3</sup> /rev. 1.26 cu.in/rev.
27		27 cm <sup>3</sup> /rev. 1.65 cu.in/rev.
33		33.5 cm <sup>3</sup> /rev. 2.04 cu.in/rev.
38		38.7 cm <sup>3</sup> /rev. 2.36 cu.in/rev.
46		46.9 cm <sup>3</sup> /rev. 2.86 cu.in/rev.
55		54.1 cm <sup>3</sup> /rev. 3.3 cu.in/rev.
65		63.1 cm <sup>3</sup> /rev. 3.85 cu.in/rev.
75		73.4 cm <sup>3</sup> /rev. 4.48 cu.in/rev.

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

PORTS (page 188)	CODES	C
Flanged ports european standard	P	
Flanged ports german standard	B	
Threaded ports GAS (BSPP)	G	
Threaded ports SAE (ODT)	R	
Flanged ports SAE J518 AMERICAN STANDARD THREAD	S	
Flanged ports SAE J518 METRIC THREAD	W	

DRIVE SHAFT (page 190)	CODES	D
Tang drive for electric motors	05	
European Tapered 1:5	35	
European Tapered 1:8	38	
European Tapered 1:8	48	
SAE B splined 13T	55	
SAE BB splined 15T	56	
SAE B parallel	87	
SAE BB parallel	88	

H	OUTRIGGER BEARING (page 192)	CODES
	European standard	CP
	German standard	CSB

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

F	SEAL	CODE
	Buna standard	
	Viton	V

E	MOUNTING FLANGES (page 191)	CODES
	SAE B 2 Bolts	S3
	European standard Ø50.8	P2
	European standard Ø60.3	P3
	German standard Ø105	B6

Order example 3ME 46D, ports SAE (R), drive shaft (56), mounting flange (S3)  
**3ME46D-R56S3**

E0.130.0416.02.00IM03



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