
2.5MB

Aluminium gear motors

Technical Catalogue

E0.138.0219.02.00IM05



OIL SOLUTIONS

PO Box 38
Strathfieldsaye, VIC, 3551
1800 OIL SOL
1800 645 765
sales@oilsolutions.com.au
www.oilsolutions.com.au
"For All Your Hydraulic Needs"

salami  [®]



1800-OILSOL
1800-645765

<https://oilsolutions.com.au/>

sales@oilsolutions.com.au

GEAR MOTORS “E” - “B” - “C” SERIES

Aluminium Body

General Features

GEAR MOTORS

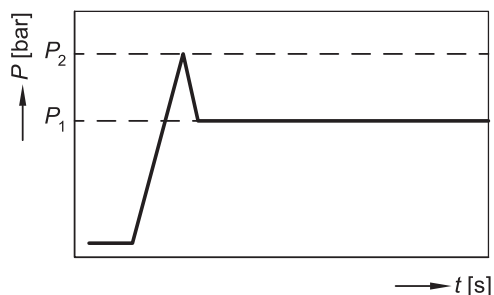
- Displacements from 2.8 cm³/rev to 73.4 cm³/rev (*from 0.17 cu.in./rev to 4.48 cu.in./rev*).
- Rated pressure up to 250 bar (3625psi).
- Speed up to 4500 rpm.
- Flanges, shafts and ports for ISO, DIN and SAE standards.
- Available in uni and bi-directional version for all the sizes, displacements and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

WORKING CONDITIONS

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

*Available on request

DEFINITION OF PRESSURES



P_1 max. continuous pressure

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

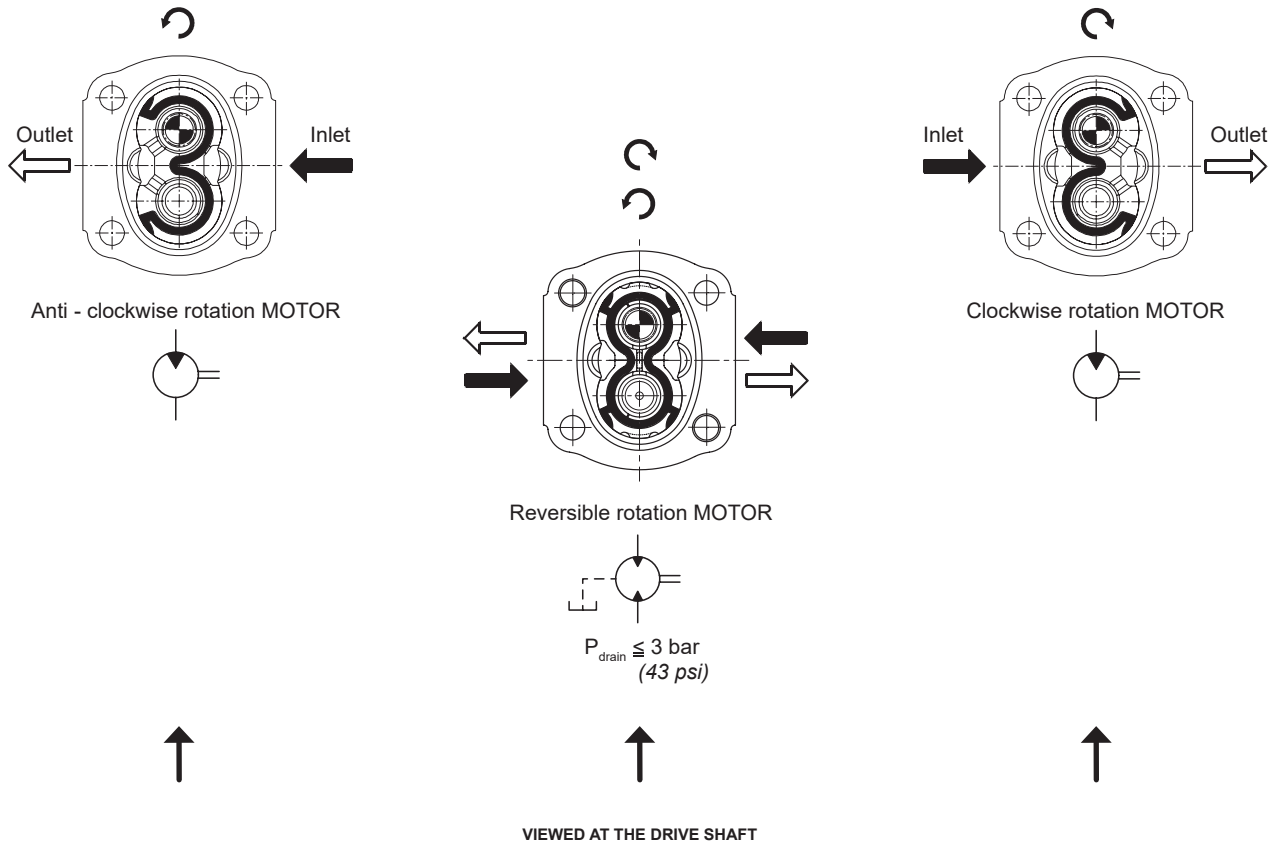
General Features

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

DRIVE SHAFTS

Radial and axial loads on the shafts must be avoided since they reduce the life of the unit.
In order to avoid misalignment during the assembly with the primary engine, a connection with “Oldham” coupling (or coupling having convex toothed hub) is recommended.

ROTATION



HYDRAULIC PIPE LINE

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

From 6 to 10 m/sec on pressure pipe line

From 19.7 to 32.8 ft/sec on pressure pipe line

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

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

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

GEAR MOTORS “E” - “B” - “C” SERIES

Aluminium Body

General Features

FILTRATION INDEX RECOMMENDED

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

COMMON FORMULAS FOR MOTORS

Based on SI units

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

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

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

Variables: SI units [US units]

Based on US units

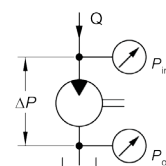
Input flow: $Q = \frac{V \cdot n}{231 \cdot \eta_v}$ [US gal/min]

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

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

LEGENDA

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



IDENTIFICATION LABEL

Product short description

Build Order Number (for Salami management)



Made in Italy

2ME11,3D-P28P1

001-WO1- - - - -

Rot. →

Unit Rotation

612014017

2/2021

Nr 1

Salami Manufacturing Part Number

Manufacturing Date, Month and Year

Batch Serial Number

EO.100.0821.02.001M03

General Features

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

TECHNICAL DATA

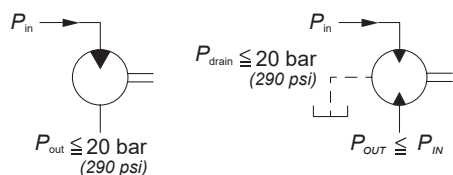
	Displacement		Max. continuous pressure P ¹		Max. starting pressure P ²		Max. speed at P ²	Min. speed at P ¹
GROUP 1.5 - E SERIES	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	rpm	
1.5ME - 2.8	2.8	0.17	250	3625	270	3915	4500	700
1.5ME - 3.5	3.5	0.21	250	3625	270	3915	4500	700
1.5ME - 4.1	4.1	0.25	250	3625	270	3915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

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

*Available for quantity

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

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



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

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GEAR MOTORS “B” SERIES
Aluminium Body

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Final revised edition - February 2019

The data in this catalogue refers to the standard product.

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

If any doubts, please contact our sales department.





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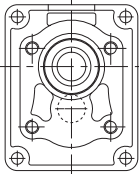
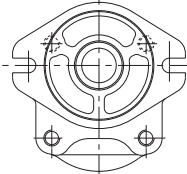
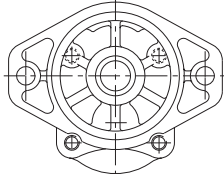
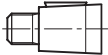
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GEAR MOTORS “ B ” SERIES

Aluminium Body

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SHAFTS AND FLANGES COMBINATION

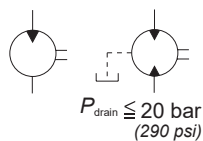
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	CODE P2 European standard	CODE S2 SAE A 2 Bolts	CODE S3 SAE B 2 Bolts
 CODE 38 - Tapered 1:8	38P2		
 CODE 53 - SAE A splined 10T		53S2	
 CODE 54 - SAE A splined 11T		54S2	
 CODE 55 - SAE B splined 13T		55S2	55S3
 CODE 87 - SAE B parallel		87S2	87S3

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

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GEAR MOTORS "B" SERIES Aluminium Body

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

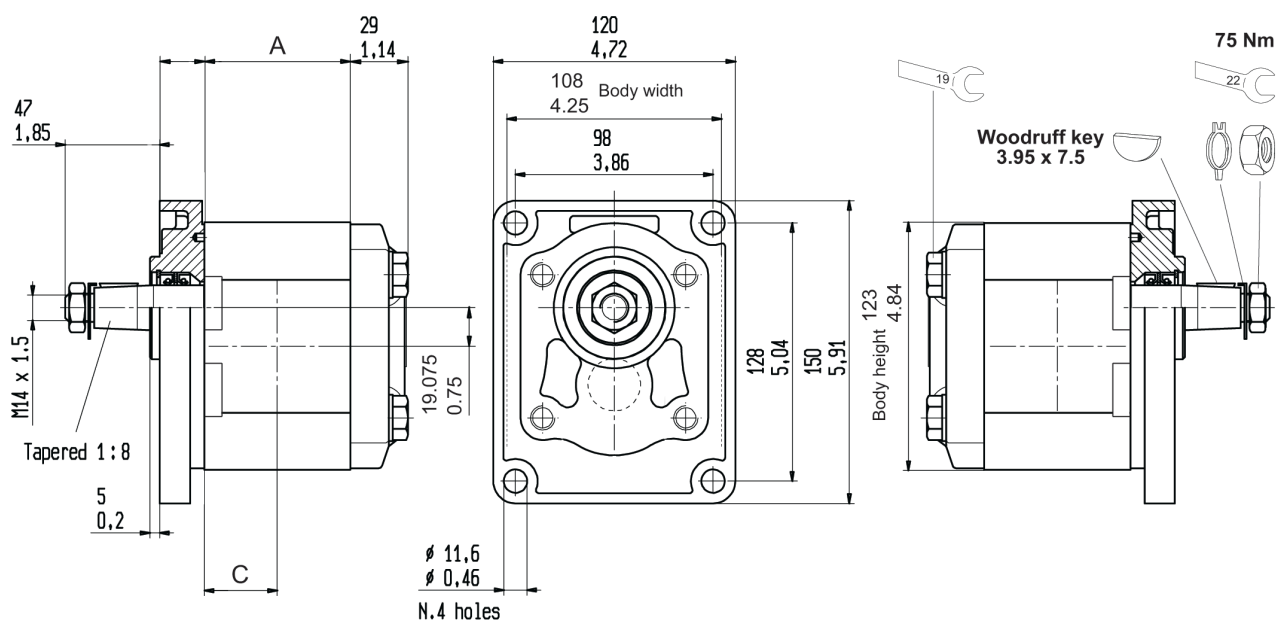


GEAR MOTORS

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
	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



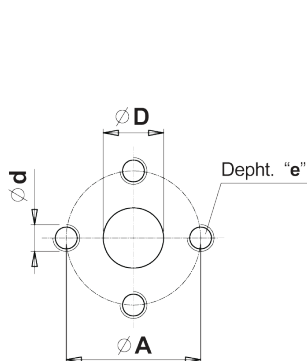
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GEAR MOTORS "B" SERIES

Aluminium Body

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FLANGED and THREADED PORTS



code P

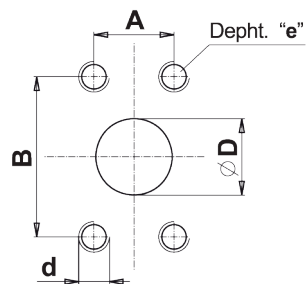
Flanged ports
european standard

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")

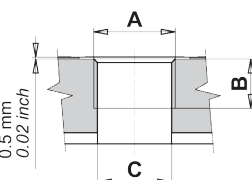


code S

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

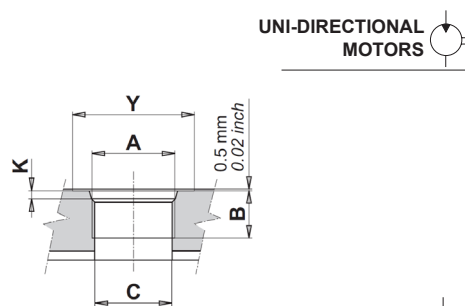
TYPE	OUTLET			INLET		
	A	B	ØC	A	B	ØC
From 16 to 25	G3/4	16 (0.62")	20 (0.78")	G3/4	16 (0.62")	20 (0.78")
From 28 to 44	G1	19 (0.74")	23 (0.91")	G1	19 (0.74")	23 (0.91")

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GEAR MOTORS "B" SERIES Aluminium Body



code R

Threaded ports
SAE (ODT)



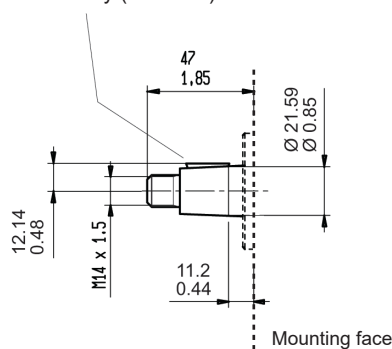
TYPE	OUTLET					INLET				
	A	B	ØC	Y	K	A	B	ØC	Y	K
From 16 to 22	1-1/16-12 UN (SAE 12)	19 (0.74")	20 (0.78")	41 (1.61")	3.3 (0.12")	7/8-14 UNF (SAE 10)	14 (0.54")	15 (0.59")	34 (1.32")	2.5 (0.10")
From 25 to 44	1-5/16-12 UN (SAE 16)		23 (0.91")	49 (1.93")		1-1/16-12 UN (SAE 12)	19 (0.74")	20 (0.78")	41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



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")	

DRIVE SHAFTS

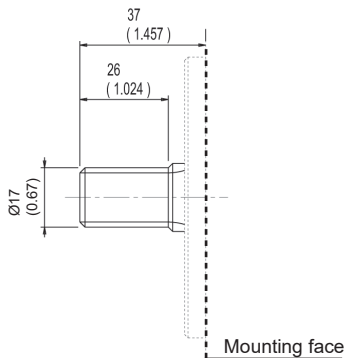
Woodruff Key (3.95x7.5)



code 38

Max torque 250 Nm (2213 lbf in)

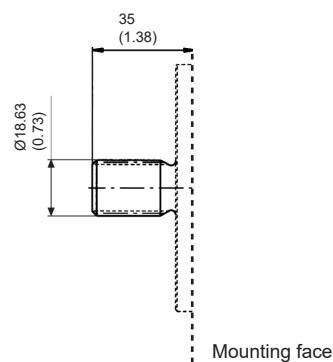
Tapered 1:8



code 53

Max torque 125 Nm (1106 lbf in)

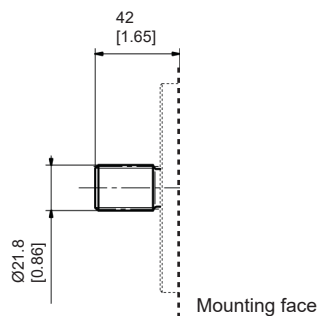
Splined SAE A 10T-16/32DP Ansi B92 1a 1976



code 54

Max torque 150 Nm (1327 lbf in)

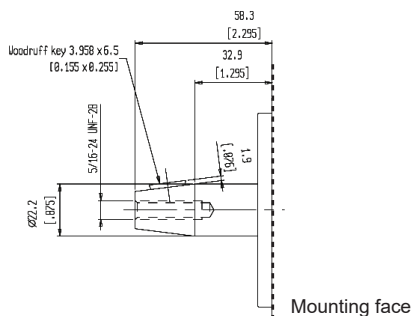
Splined SAE A 11T-16/32DP Ansi B92 1a 1976



code 55

Max torque 320 Nm (2830 lbf in)

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

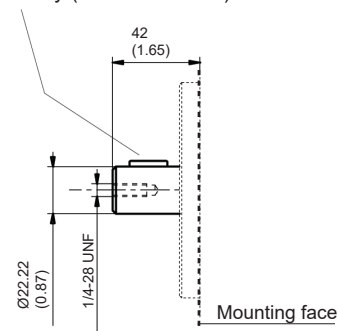


code 37

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

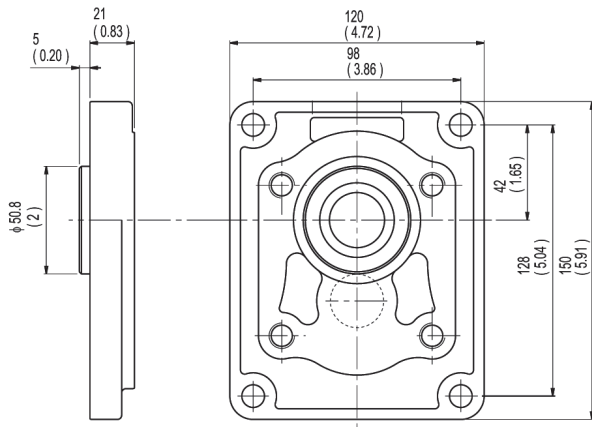
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GEAR MOTORS “B” SERIES

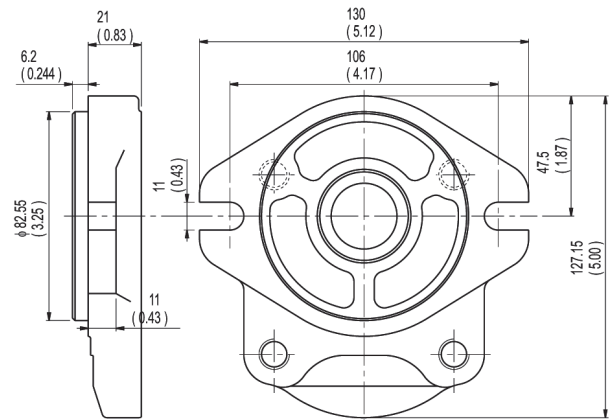
Aluminium Body

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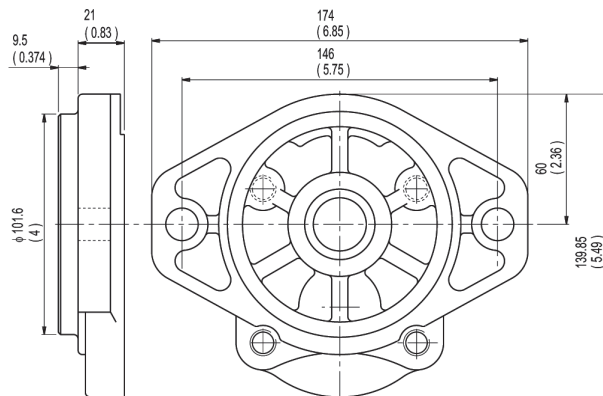
MOUNTING FLANGES


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

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GEAR MOTORS "B" SERIES Aluminium Body

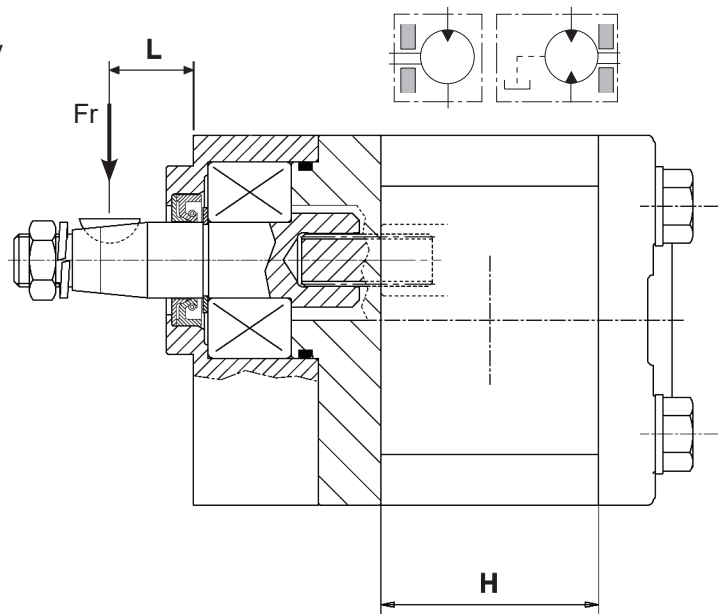
OUTRIGGER BEARING

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:

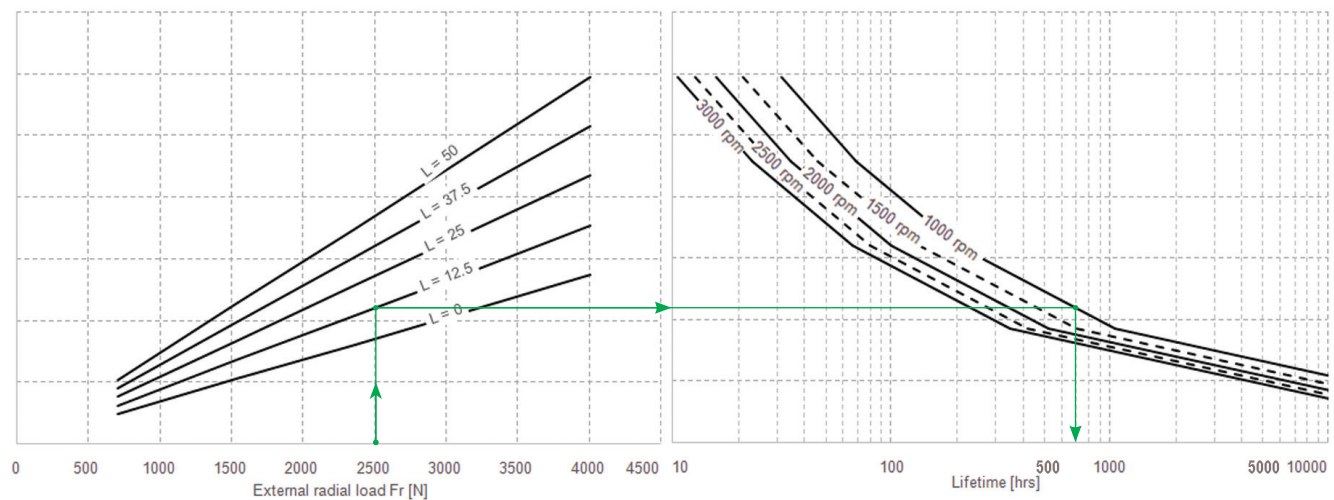
$F_r = 2500 \text{ N}$

$L = 12.5$

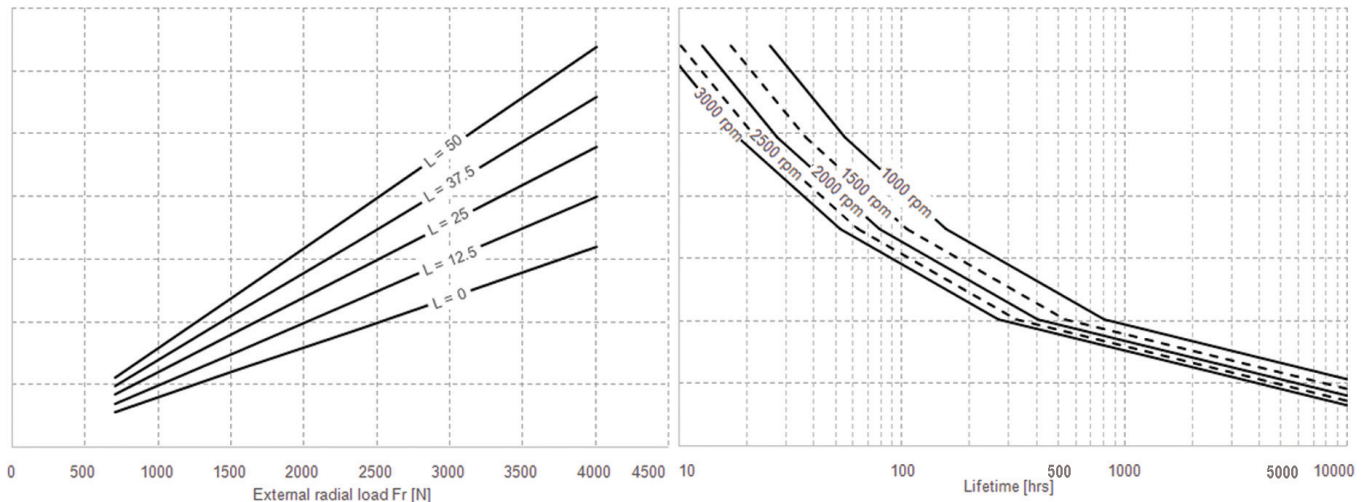
Speed = 1000 rpm

Expected life: 700 hrs

For Code CP



For Code Z1



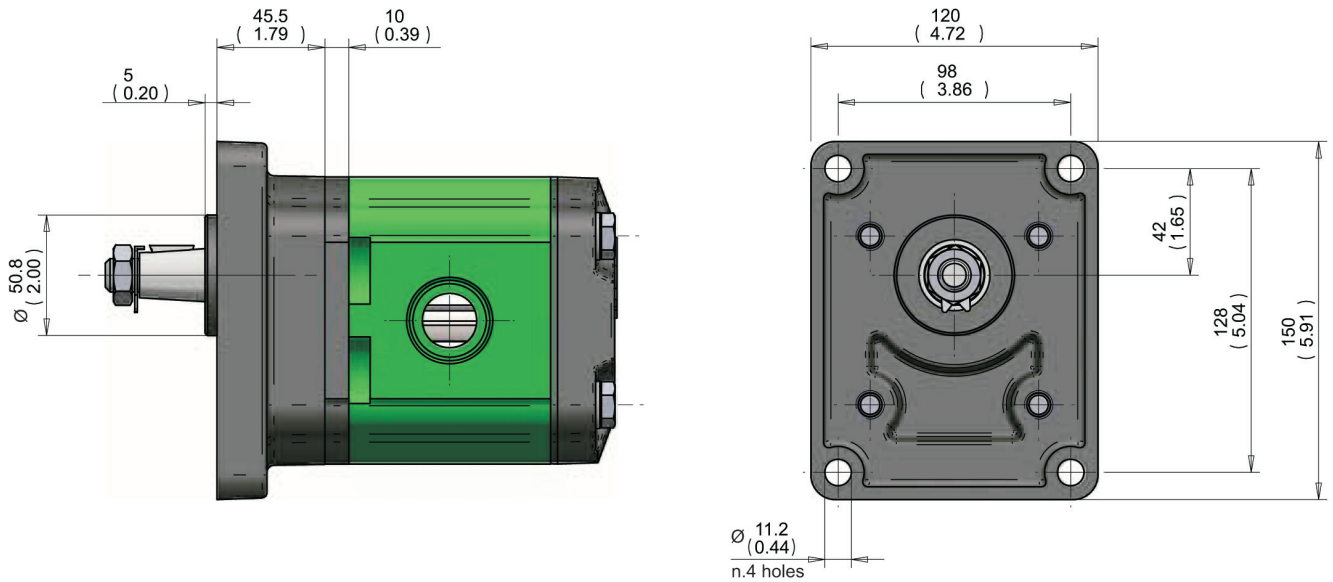
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GEAR MOTORS “ B” SERIES

Aluminium Body

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MOUNTING FLANGES WITH BEARING


CP
European standard mounting flange

With shaft code 38 (see page 180)

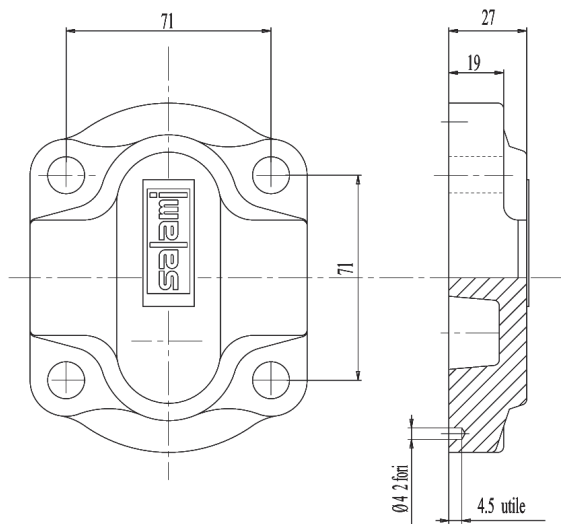
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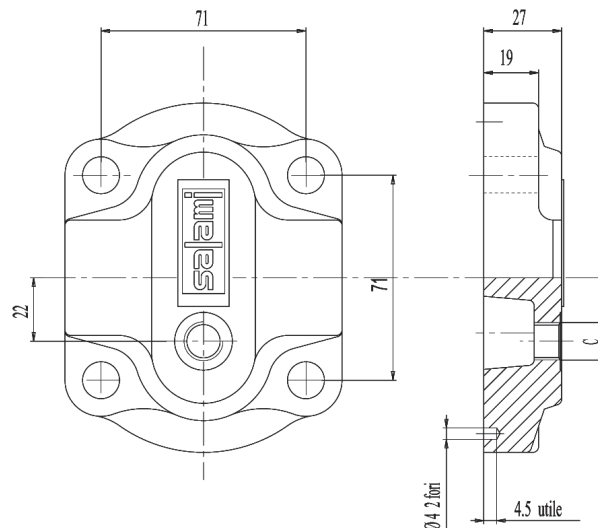
GEAR MOTORS "B" SERIES

Aluminium Body

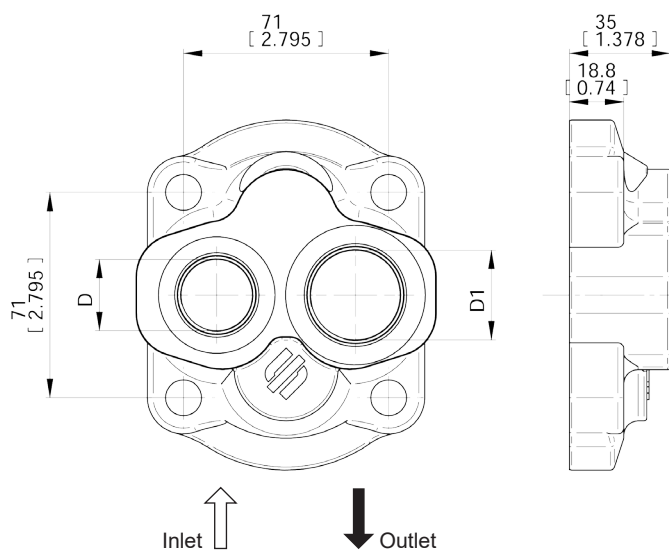
REAR COVERS



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

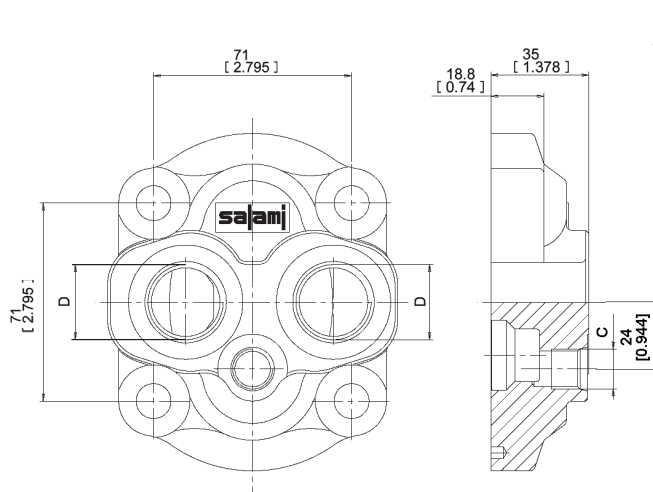


UNIDIRECTIONAL MOTORS

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.



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.

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GEAR MOTORS “B” SERIES

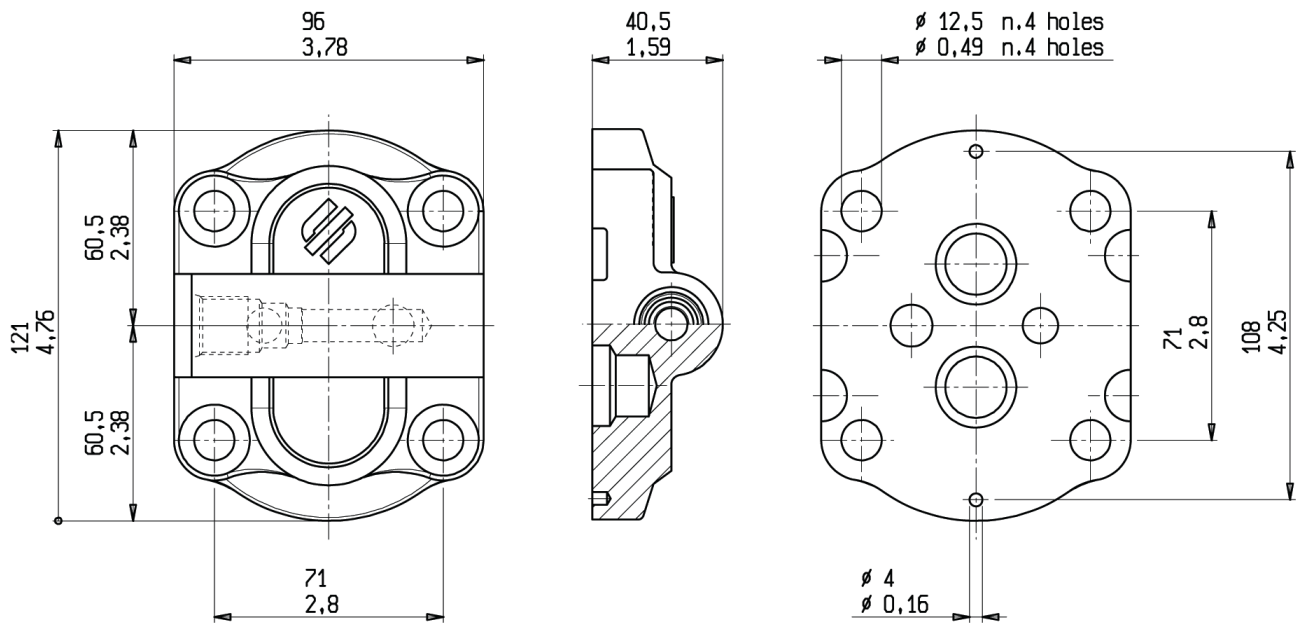
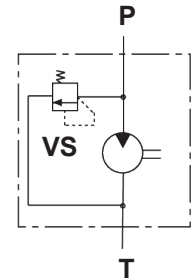
Aluminium Body

2.5MB

REAR COVERS WITH RELIEF VALVE

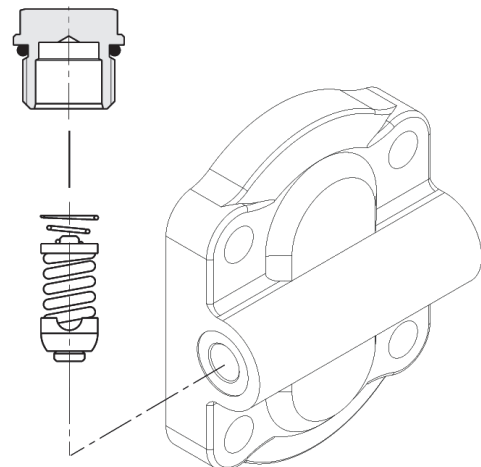
code VS

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



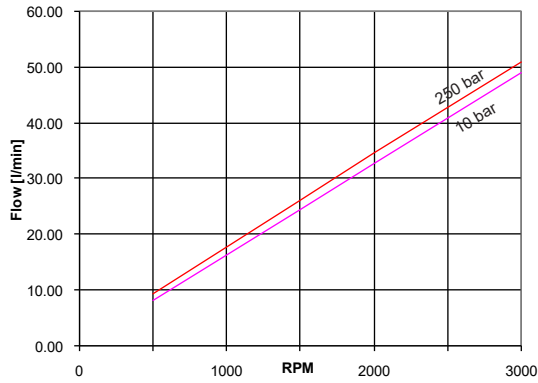
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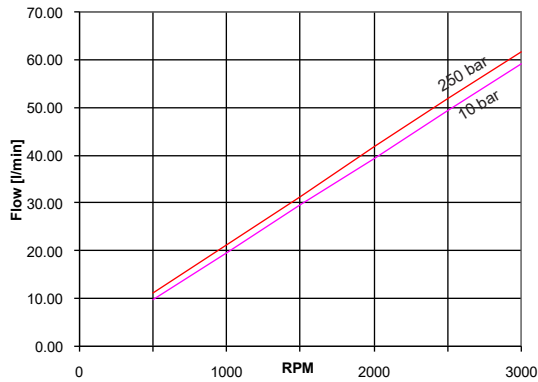
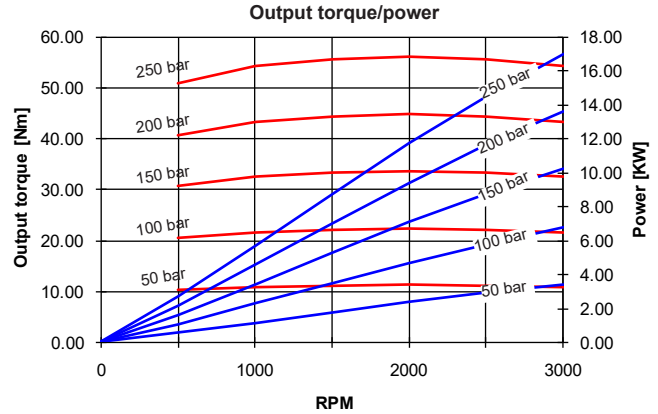
GEAR MOTORS "B" SERIES Aluminium Body

PERFORMANCE CURVES

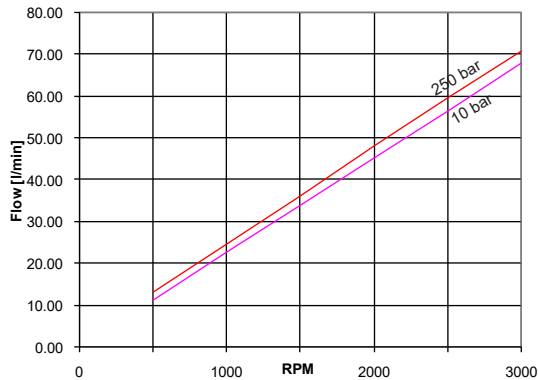
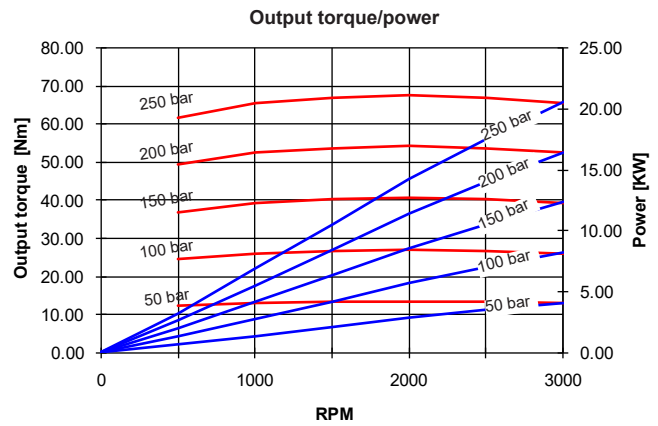
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C



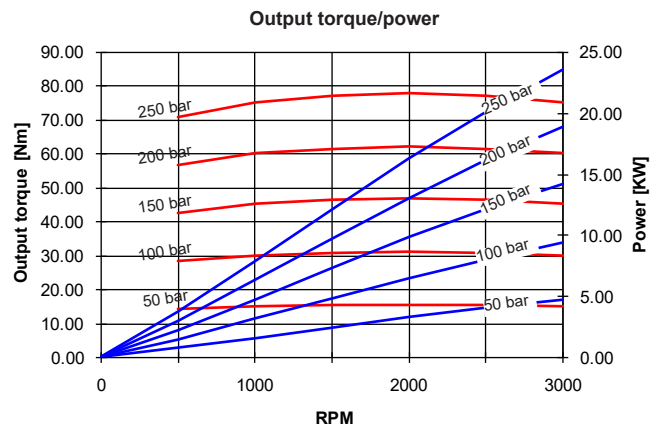
2.5MB - 16



2.5MB - 19



2.5MB - 22



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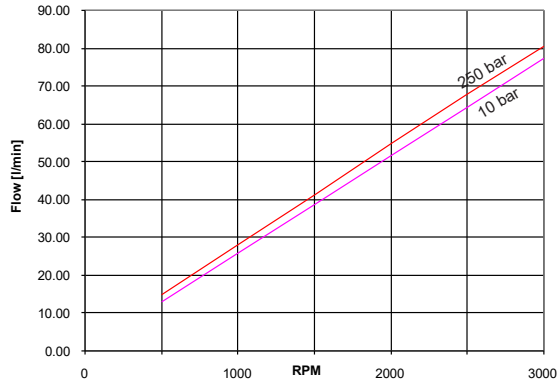
GEAR MOTORS "B" SERIES

Aluminium Body

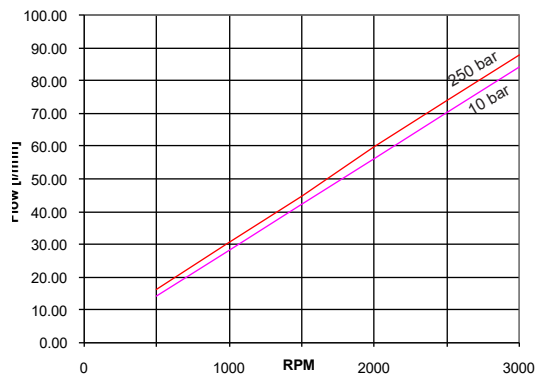
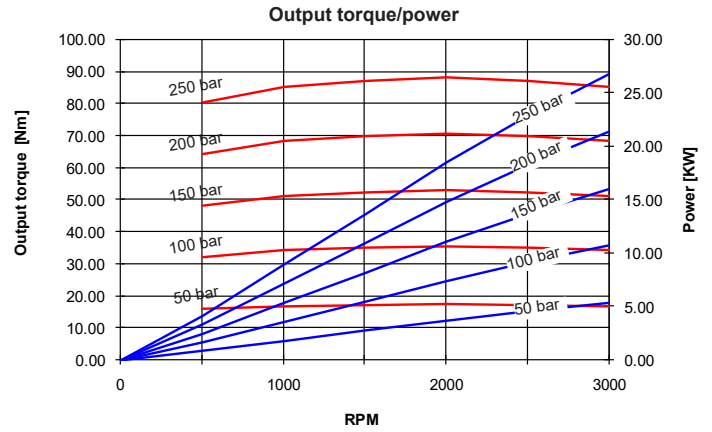
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PERFORMANCE CURVES

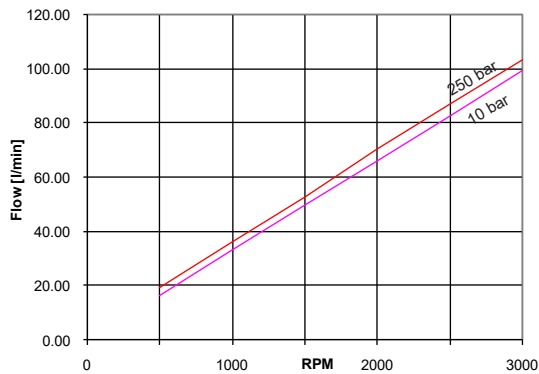
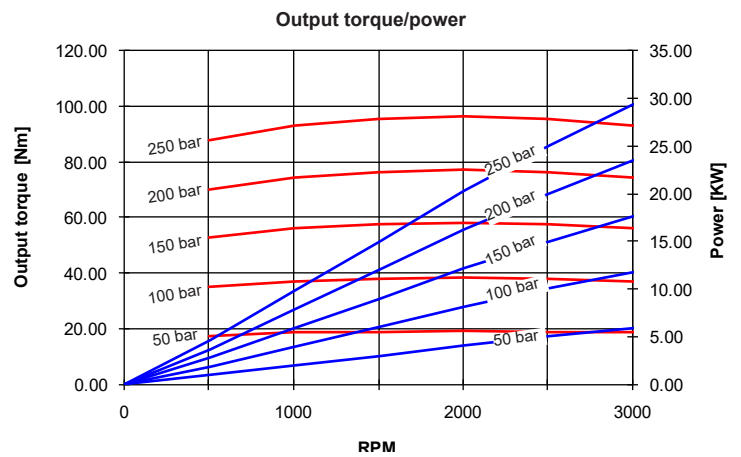
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C



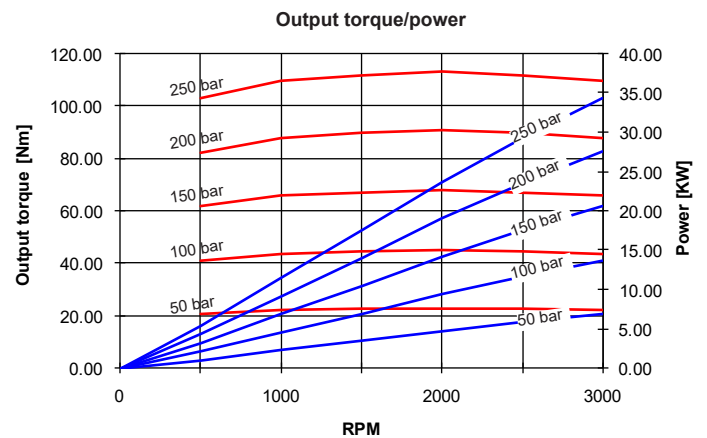
2.5MB - 25



2.5MB - 28



2.5MB - 32



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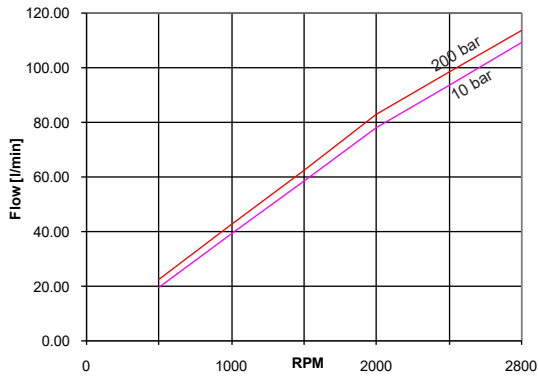
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GEAR MOTORS “B” SERIES

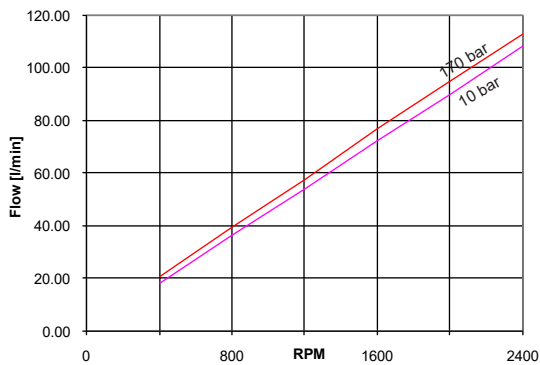
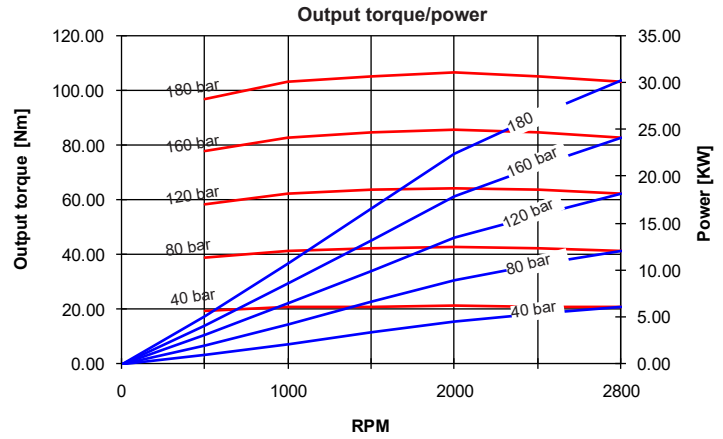
Aluminium Body

PERFORMANCE CURVES

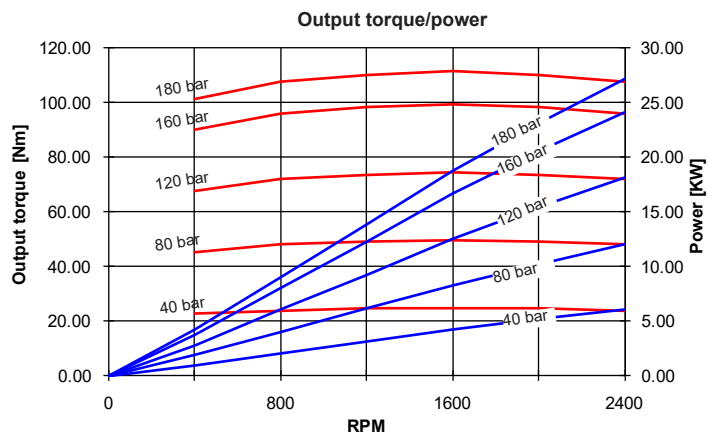
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C



2.5MB - 38



2.5MB - 44



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GEAR MOTORS "B" SERIES

Aluminium Body

2.5MB-How to order

SINGLE MOTORS

2.5MB

A

B

C

D

E

F

G

H

I

Adjustable flow l/min

Setting main relief valve (bar)

DISPLACEMENTS		A	CODES
11.76 cm³/rev.	0.72 cu.in/rev.	11.5	
14.07 cm³/rev.	0.86 cu.in/rev.	13.8	
16 cm³/rev.	0.97 cu.in/rev.	16	
19.3 cm³/rev.	1.17 cu.in/rev.	19	
22.2 cm³/rev.	1.35 cu.in/rev.	22	
25.2 cm³/rev.	1.53 cu.in/rev.	25	
27.6 cm³/rev.	1.68 cu.in/rev.	28	
32.4 cm³/rev.	1.97 cu.in/rev.	32	
38.1 cm³/rev.	2.32 cu.in/rev.	38	
44.2 cm³/rev.	2.69 cu.in/rev.	44	

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

PORTS (page 179)	CODES	C
Flanged ports european standard	P	
Flanged ports SAE (UNC)	S	
Threaded ports GAS (BSPP)	G	
Threaded ports SAE (ODT)	R	

DRIVE SHAFT (page 180)	CODES	D
Tapered 1:8	38	
SAE A splined 10T	53	
SAE A splined 11T	54	
SAE B splined 13T	55	
Tapered 1:4	37	
7/8" SAE B parallel shaft Ø22.22	87	

I	VALVES IN THE COVER (page 185)	CODE
	Fixed main relief valve	VS

H	OUTRIGGER BEARING (page 182)	CODE
	European standard	CP

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

F	SEAL	CODE
	Buna standard	
	Viton	V

E	MOUNTING FLANGES (page 181)	CODES
	European standard	P2
	SAE A 2 bolts	S2
	SAE B 2 bolts	S3

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

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1800-OILSOL
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<https://oilsolutions.com.au/>

sales@oilsolutions.com.au

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OIL SOLUTIONS

PO Box 38
Strathfieldsaye, VIC, 3551
1800 OIL SOL
1800 645 765
sales@oilsolutions.com.au
www.oilsolutions.com.au
"For All Your Hydraulic Needs"

SALAMI S.P.A.

Via Emilia Ovest 1006
41123 Modena (Italy)
Ph. +39 059 387 411
F. +39 059 387 639
sales@salami.it

SALAMI FRANCE

22, rue Louis Saillant
69120 Valux en Velin
Lyon
Ph. +33-04-78809941
F. +33-04-78803669
e.pasian@salami.fr

SALAMI ESPAÑA

Poligono Industrial Armenteres
C/Primer de Maig, 18, Nave 4
08980 San Feliu de Llobregat
Barcelona
Ph. +34-93-6665451
F. +34-93-6667826
info@salamispain.com

SALAMI HYDRAULICS N.A INC

4630 Crossroads Park Drive
Liverpool
NY 13088 - USA
Ph. +1-315-295-2363
F. +1-315-295-2364
info@salamihydraulics.com



OIL SOLUTIONS

1800-OILSOL
1800-645765

<https://oilsolutions.com.au/>

sales@oilsolutions.com.au

www.salami.it