3.5PC

Aluminium gear pumps

Technical Catalogue

E0.114.0219.02.00IM05

salami®

GEAR PUMPS

SALAMI gear pumps are available with displacements from 1.4 cm^3/rev to 99 cm^3/rev *(from 0.09 cu.in/rev to 6.03 cu.in/rev)*.
Multiple pumps can always be relized combining stages taken from different or same series.
Several options of shafts, flanges and ports as for European, German and American standards are available for all the pumps.

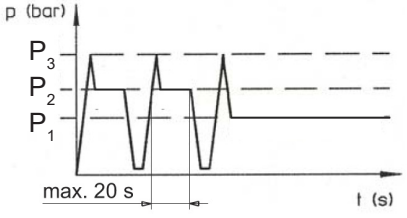
SALAMI gear pumps offer:
•High volumetric efficiency thanks to an innovative design and an accurate control of machining tolerances.
•Axial compensation achieved by the use of floating bushes that allow high volumetric efficiency throughout the working pressure range.
•DU bearings to ensure high pressure capability.
•12 teeth integral gear and shaft.
•Aluminium body.
•Cast iron flange and cover.
•Double shaft seals.
•Nitrile seals as standard and Viton seals in high temperature applications.
•All pumps are hydraulically tested after assembly to ensure the highest standard performance.
•Gear pumps are ideal for mobile equipment including: snow plows, light duty equipment, farm vehicles, town trucks, cherry pickers, lift gates, utility vehicles, aerial devices, hoists, spreaders, fan drive.
•Also available Bidirectional rotation.

WORKING CONDITIONS

- Pump inlet pressure (absolute pressure)	0.8 to 1.5 bar *(11.6 to 21.7 psi)*
- Minimum operating fluid viscosity	12 mm^2 / sec
- Max starting viscosity	800 mm^2 / sec
- Suggested fluid viscosity range	17 - 65 mm^2 / sec
- Fluid operating temperature range	-20 to 80 °C
- Fluid operating temperature range with FPM seals (Viton)	-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_3 = Peak pressure

P_2 = Intermittent operating pressure (1/3 of working time)

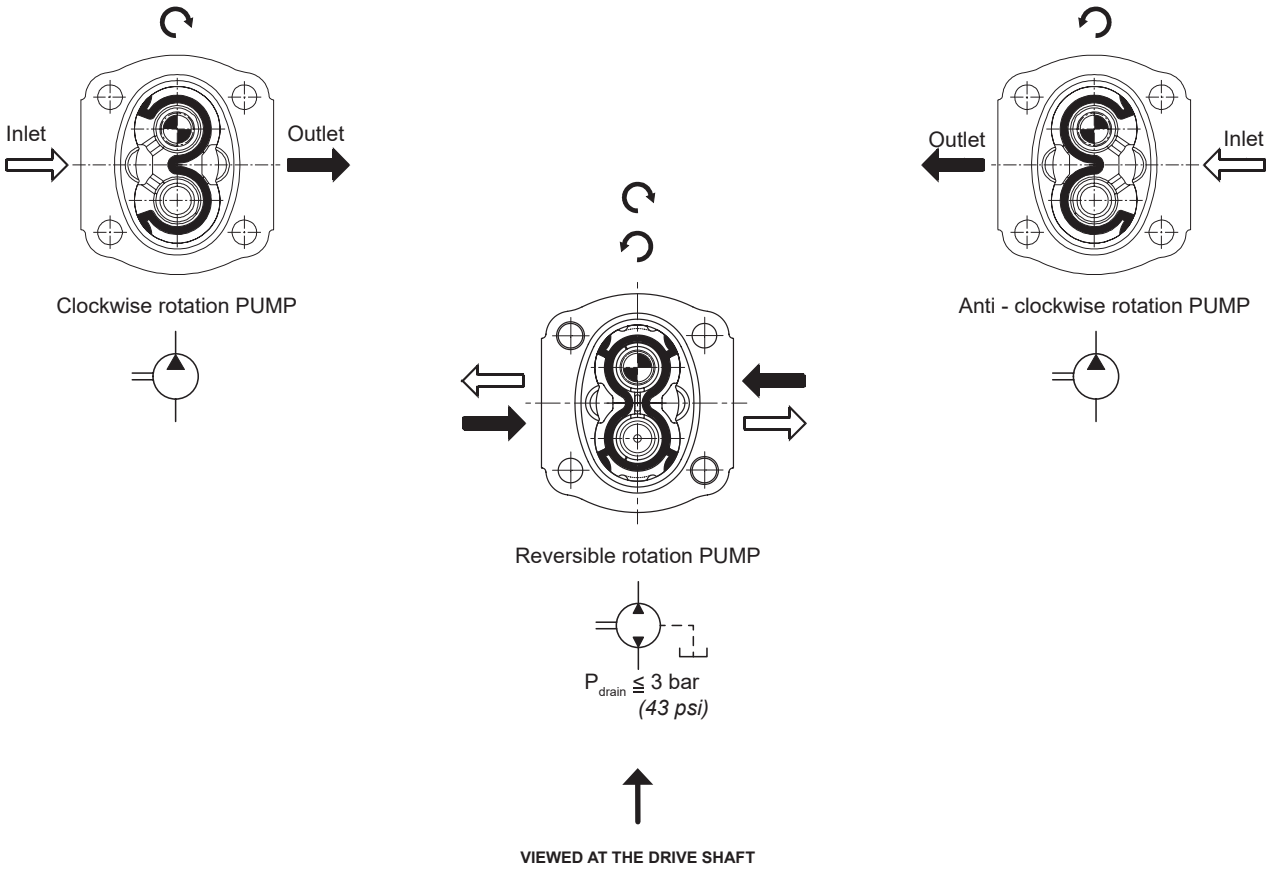
P_1 = Continuous operating pressure

General Features

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 ensure favorable suction conditions it is important to keep pressure drop in suction pipe line to a minimum value (see TECHNICAL DATA).
To calculate hydraulic pipe line size, the designer can use; as an approximate guide, the following fluid speed figures:

From 1 to 2 m/sec on suction pipe line From 6 to 10 m/sec on pressure pipe line	From *3.28* to *6.36 ft/sec* on suction 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 continuos duty.
The highest value is recommended when the temperature difference is low and/or for intermittent duty.
When tandem pumps are supplied by 2 different reservoirs with 2 different fluids it is necessary to specify “AS” version.

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FILTRATION INDEX RECOMMENDED

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

COMMON FORMULAS FOR PUMPS

C = Input torque $= \frac{q \cdot \Delta p}{62.8 \cdot \eta_m}$ (Nm)

P = Input power $= \frac{q \cdot n \cdot \Delta p \ 10^{-3}}{600 \ \eta_m}$ (kW)

Q = Outlet flow $= \frac{q \cdot n \cdot \eta_v}{1000}$ (l/min)

LEGENDA

Δp = Working pressure (bar)

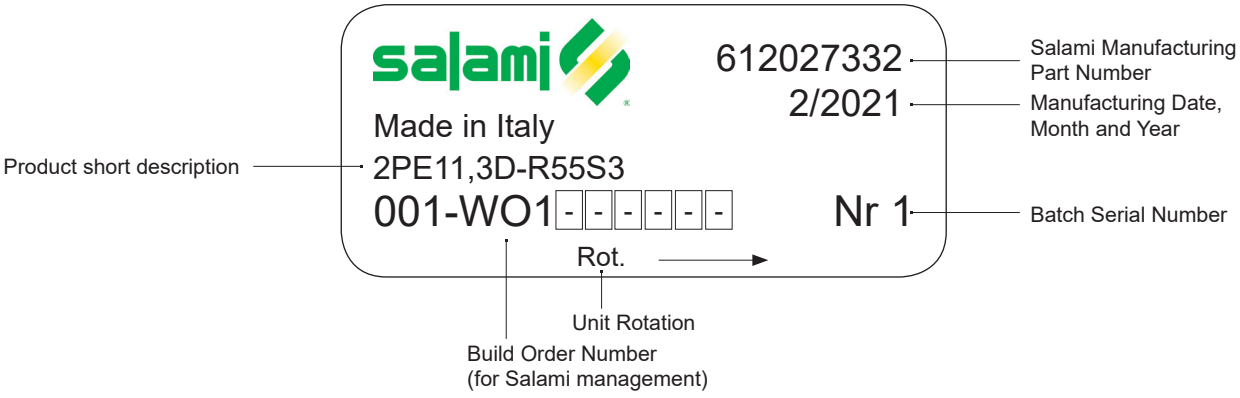
q = Displacement (cm^3/rev)

n = Speed (min^{-1})

η_m = Mechanical eff. (0.92)

η_v = Volumetric eff. (0.95)

IDENTIFICATION LABEL



General Features

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

TECHNICAL DATA

	Displacement		Continuous pressure P1		Intermittent pressure P2		Peak pressure P3		Max. speed	Min. speed
GROUP 1.5 - E SERIES	cm³/rev	*cu.in/rev*	bar	*psi*	bar	*psi*	bar	*psi*	rpm	
1.5PE - 1.4	1.4	*0.09*	250	*3625*	270	*3915*	290	*4205*	5000	700
1.5PE - 2.1	2.1	*0.13*	250	*3625*	270	*3915*	290	*4205*	5000	700
1.5PE - 2.8	2.8	*0.17*	250	*3625*	270	*3915*	290	*4205*	4500	700
1.5PE - 3.5	3.5	*0.21*	250	*3625*	270	*3915*	290	*4205*	4500	700
1.5PE - 4.1	4.1	*0.25*	250	*3625*	270	*3915*	290	*4205*	4000	700
1.5PE - 5.2	5.2	*0.32*	230	*3335*	250	*3625*	270	*3915*	4000	700
1.5PE - 6.2	6.2	*0.38*	230	*3335*	250	*3625*	270	*3915*	3600	600
1.5PE - 7.6	7.6	*0.46*	200	*2900*	220	*3190*	250	*3625*	3300	600
1.5PE - 9.3	9.3	*0.57*	180	*2610*	200	*2900*	240	*3480*	3000	600
1.5PE - 11	11	*0.67*	170	*2465*	190	*2755*	220	*3190*	3000	600

GROUP 2 - E SERIES	cm³/rev	*cu.in/rev*	bar	*psi*	bar	*psi*	bar	*psi*	rpm	
2PE - 3.2*	3.2	*0.19*	250	*3625*	280	*4060*	300	*4350*	4000	600
2PE - 3.9*	3.9	*0.24*	250	*3625*	280	*4060*	300	*4350*	4000	600
2PE - 4.5	4.6	*0.27*	250	*3625*	280	*4060*	300	*4350*	4000	600
2PE - 6.5	6.5	*0.4*	250	*3625*	280	*4060*	300	*4350*	4000	600
2PE - 8.3	8.2	*0.5*	250	*3625*	280	*4060*	300	*4350*	3500	500
2PE - 10.5	10.6	*0.65*	250	*3625*	280	*4060*	300	*4350*	3500	500
2PE - 11.3	11.5	*0.68*	250	*3625*	280	*4060*	300	*4350*	3500	500
2PE - 12.5	12.7	*0.77*	250	*3625*	280	*4060*	300	*4350*	3500	500
2PE - 13.8	13.8	*0.84*	250	*3625*	280	*4060*	300	*4350*	3500	500
2PE - 16	16.6	*1.01*	250	*3625*	280	*4060*	300	*4350*	3000	400
2PE - 19	19.4	*1.15*	220	*3190*	240	*3480*	260	*3750*	3000	400
2PE - 22.5	22.9	*1.37*	200	*2900*	220	*3190*	240	*3480*	2750	400
2PE - 26	26.6	*1.62*	180	*2610*	200	*2900*	220	*3190*	2500	400

*Available only as rear pump

GROUP 2.5 - B SERIES	cm³/rev	*cu.in/rev*	bar	*psi*	bar	*psi*	bar	*psi*	rpm	
2.5PB - 5.5*	5.97	*0.36*	250	*3625*	280	*4060*	300	*4350*	3000	600
2.5PB - 8.3*	8.29	*0.50*	250	*3625*	280	*4060*	300	*4350*	3000	600
2.5PB - 11.5*	11.76	*0.72*	250	*3625*	280	*4060*	300	*4350*	3000	600
2.5PB - 13.8*	14.07	*0.86*	250	*3625*	280	*4060*	300	*4350*	3000	600
2.5PB - 16	16	*0.97*	250	*3625*	280	*4060*	300	*4350*	3000	600
2.5PB - 19	19.3	*1.17*	250	*3625*	280	*4060*	300	*4350*	3000	600
2.5PB - 22	22.2	*1.35*	250	*3625*	280	*4060*	300	*4350*	3000	500
2.5PB - 25	25.2	*1.53*	250	*3625*	280	*4060*	300	*4350*	3000	500
2.5PB - 28	27.6	*1.68*	250	*3625*	280	*4060*	300	*4350*	3000	500
2.5PB - 32	32.4	*1.97*	230	*3335*	250	*3625*	260	*3750*	3000	500
2.5PB - 38	38.1	*2.32*	200	*2900*	220	*3190*	240	*3480*	2750	400
2.5PB - 44	44.2	*2.69*	170	*2465*	190	*2755*	210	*3040*	2500	400

*Available only as rear pump. Displacements **11.5-13.8** are available as single pump only with drive shaft “55”.

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TECHNICAL DATA

	Displacement		Continuous pressure P[1]		Intermittent pressure P[2]		Peak pressure P[3]		Max. speed	Min. speed
GROUP 3 - E SERIES	cm³/rev	*cu.in/rev*	bar	*psi*	bar	*psi*	bar	*psi*	rpm	
3PE - 21	20.6	*1.26*	250	*3625*	280	*4060*	300	*4350*	3000	600
3PE - 27	27	*1.65*	250	*3625*	280	*4060*	300	*4350*	3000	600
3PE - 33	33.5	*2.04*	250	*3625*	280	*4060*	300	*4350*	3000	600
3PE - 38	38.7	*2.36*	250	*3625*	280	*4060*	300	*4350*	2750	500
3PE - 46	46.9	*2.86*	250	*3625*	270	*3915*	280	*4060*	2750	500
3PE - 55	54.1	*3.3*	220	*3190*	240	*3480*	250	*3625*	2500	400
3PE - 65	63.1	*3.85*	200	*2900*	220	*3190*	240	*3480*	2500	400
3PE - 75	73.4	*4.48*	180	*2610*	200	*2900*	220	*3190*	2500	400

GROUP 3.5 - C SERIES	cm³/rev	*cu.in/rev*	bar	*psi*	bar	*psi*	bar	*psi*	rpm	
3.5PC - 55	54.8	*3.34*	250	*3625*	280	*4060*	300	*4350*	2750	400
3.5PC - 64	63.2	*3.85*	250	*3625*	280	*4060*	300	*4350*	2750	350
3.5PC - 75	74.7	*4.55*	230	*3335*	250	*3625*	280	*4060*	2500	300
3.5PC - 87	88	*5.36*	210	*3040*	230	*3330*	260	*3750*	2250	300
3.5PC - 98*	99	*6.03*	200	*2900*	220	*3190*	250	*3625*	2000	300

*Displacement 98 are special release, please contact sales department.

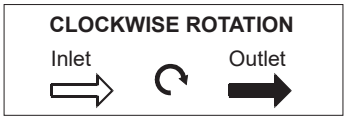
Max Speed must be lowered by 10% for system working continuosly at p[1] pressure.
Max pressure must be lowered by10% for bi-directional pump.

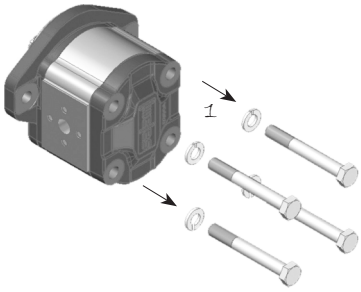
General Features

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

ROTATION CHANGING INSTRUCTIONS FOR UNITS

Keep the working surface cleaned as well as the exterior of the pump before starting and avoid inner contamination of the pump. The pump shown below is a clockwise rotating pump.
To achieve anti - clockwise rotation, please read the following instructions carefully.

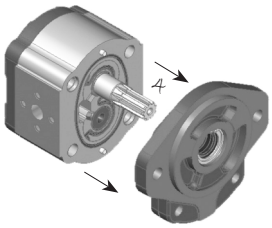




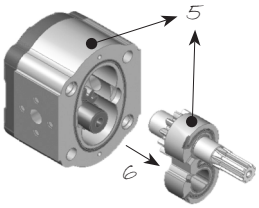
1 - Loosen and fully unscrew the bolts.

2 - Lay the pump on the working area in order to have the mounting flange turned upside.

3 - Coat the shaft end with grease to avoid damaging the shaft seal.

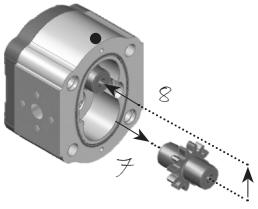


4 - Remove the flange and lay it on the working area; verify that the seal is correctly located in the body seat.



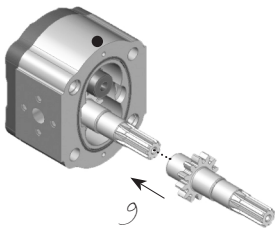
5 - Mark the position of the bushing and eventually of the thrust plate, as well, with reference to the body.

6 - Remove the bushing, thrust plate and the driving gear taking care to avoid driven gear axial shifts.

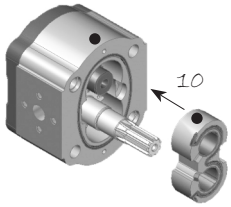


7 - Draw out the driven gear from its housing, taking care to avoid rear cover axial shifts.

8 - Re-locate the driven gear in the position previously occupied by the driving gear.



9 - Re-locate the driving gear in the position previously occupied by the driven gear.



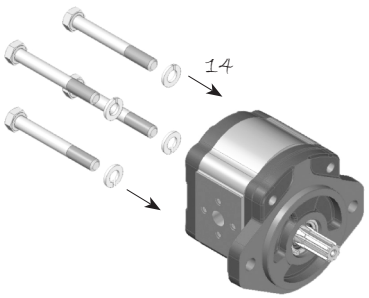
10 - Replace the bushing and thrust plate taking care that:
- marks are located as on the picture
- surface containing the seal is visible
- seal and its protection are correctly located.

11 - Clean the body and mounting flange facing surfaces.

12 - Verify that the two plugs are located in the body.

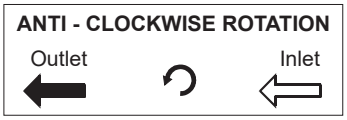
13 - Refit the mounting flange, turned 180° from its original position.

14 - Replace the bolts and tighten clockwise evenly to an appropriate torque.



15 - Check that the shaft rotates freely.

16 - Mark on the flange the new direction of rotation.



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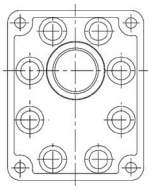
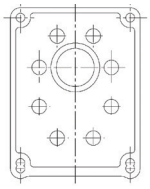
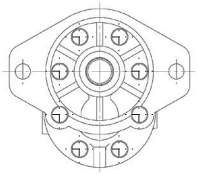
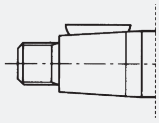
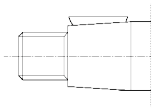
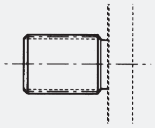
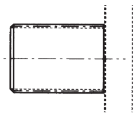
SHAFTS AND FLANGES COMBINATION

3.5PC	 CODE **P3** European standard Ø60.3	 CODE **P4** European standard Ø63.5	 CODE **S3** SAE B 2 Bolts Ø101.6
 CODE **48** - Tapered 1:8 Ø24.64	48P3		
 CODE **49** - Tapered 1:8 Ø31.75		49P4	
 CODE **55** - SAE B Splined 13T			55S3
 CODE **56** - SAE BB Splined 15T			56S3

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

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3.5PC

GEAR PUMPS "C" SERIES
Aluminium Body

Displacements up to 6.03 cu.in./rev
Pressure up to 4350 psi

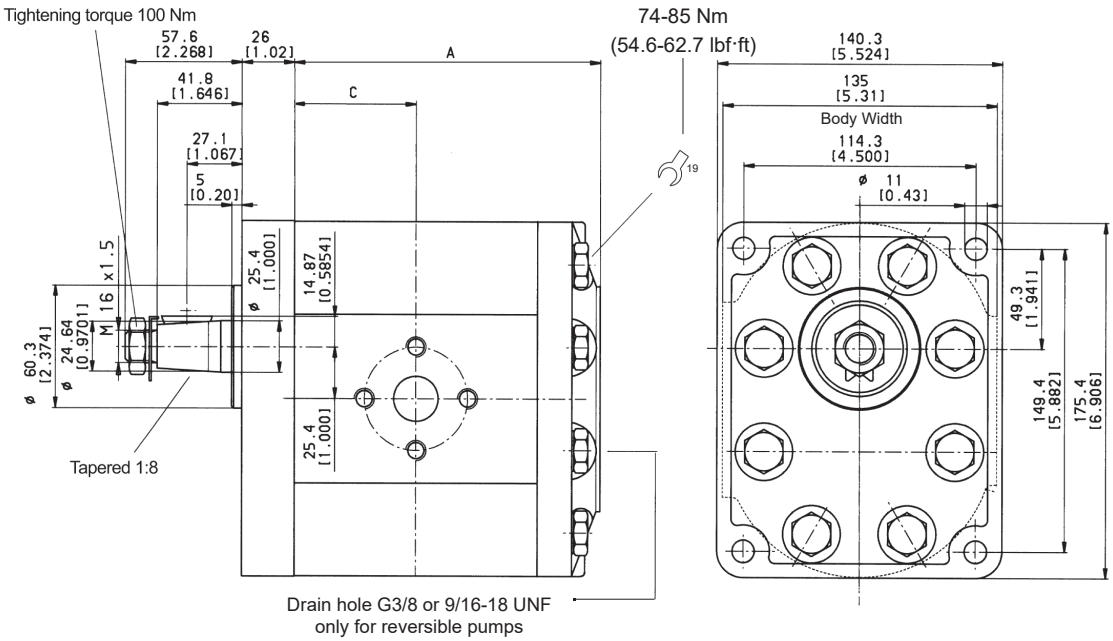
GEAR PUMPS

Displacements up to 99 cm³/rev
Pressure up to 300 bar

ASSEMBLING DIMENSIONS AND WORKING CONDITIONS

Type			55	64	75	87	98*
Displacement		cm³/rev *cu.in./rev*	54.8 *3.34*	63.2 *3.85*	74.7 *4.55*	88 *5.36*	99 *6.03*
Dimension A		mm *in*	165 *6.49*	177 *6.96*	184 *7.24*	192 *7.55*	197 *7.75*
Dimension C		mm *in*	80 *3.14*	86 *3.38*	89.5 *3.52*	93.5 3.68	96 *3.77*
Continuous pressure	P¹	bar *psi*	250 *3625*	250 *3625*	230 *3335*	210 *3040*	200 *2900*
Intermittent pressure	P²	bar *psi*	280 *4060*	280 *4060*	250 *3625*	230 *3335*	220 *3140*
Peak pressure	P³	bar *psi*	300 *4350*	300 *4350*	280 *4060*	260 *3750*	250 *3625*
Max speed		rpm	2750	2750	2500	2250	2000
Min speed		rpm	400	350	300	300	300
Weight		kg *lbs*	10.70 *23.54*	11.40 *25.08*	11.90 *26.18*	12.50 *27.55*	12.80 *28.21*

*Available for quantity.



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GEAR PUMPS "C" SERIES
Aluminium Body

3.5PC

Displacements up to 6.03 cu.in./rev
Pressure up to 4350 psi

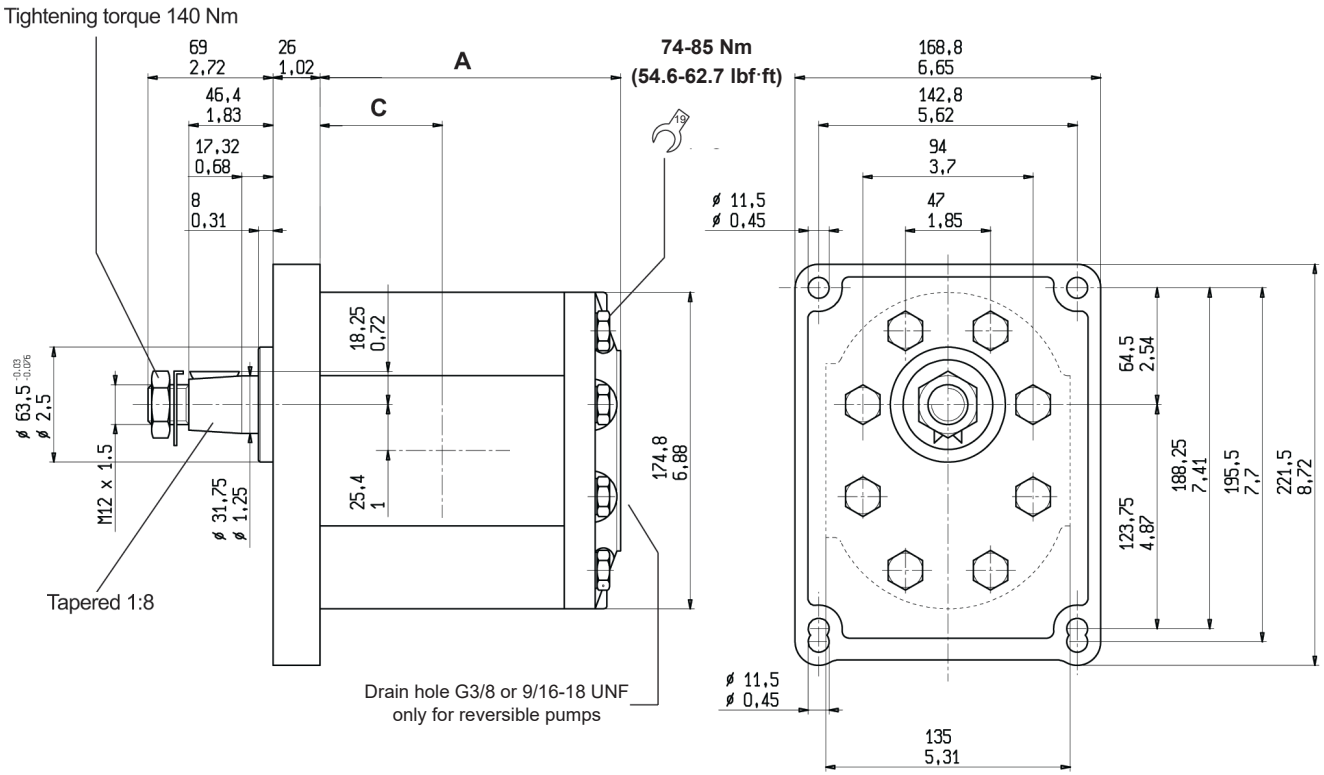
GEAR PUMPS

Displacements up to 99 cm³/rev
Pressure up to 300 bar

CONFIGURATION 49P4
(4PB)

Type		75	87	98*
Displacement	cm³/rev *cu.in./rev*	74.7 *4.55*	88 *5.36*	99 *6.03*
Dimension A	mm *in*	184 *7.24*	192 *7.55*	197 *7.75*
Dimension C	mm *in*	89.5 *3.52*	93.5 3.68	96 *3.77*
Weight	kg *lbs*	12.50 *27.55*	13.00 *28.66*	14.00 *30.86*

*Available for quantity.



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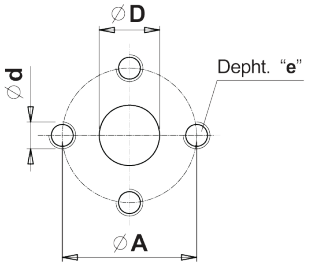
3.5PC

GEAR PUMPS "C" SERIES
Aluminium Body

FLANGED AND THREADED PORTS



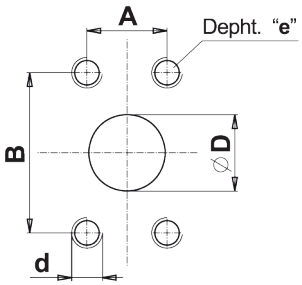
code P

Flanged ports
european standard

UNI-DIRECTIONAL PUMPS	TYPE	INLET				OUTLET			
		Ø A	Ø D	d	e	A	Ø D	d	e
	55	51 *(2.01")*	27 *(1.06")*	M10	16 *(0.63")*	51 *(2.01")*	22 *(0.87")*	M10	16 *(0.63")*
	64	62 *(2.44")*	33 *(1.30")*	M12	22 *(0.86")*				
	From 75 to 98	72,5 *(2.85")*	38 *(1.50")*	M12					

BI-DIRECTIONAL PUMPS Special version available on request.

For version 49P4:
Tightening torque for different threads
M10=50Nm
M12=90Nm



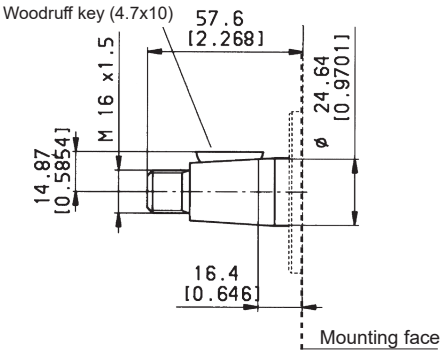
code S

Flanged ports
SAE J518
AMERICAN STANDARD
THREAD

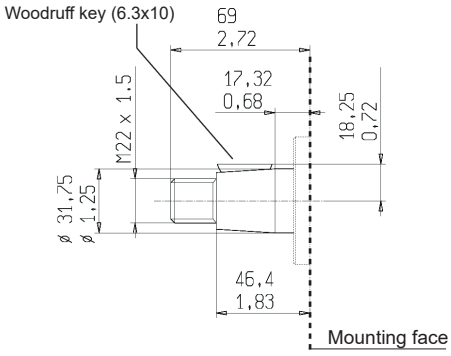
UNI-DIRECTIONAL PUMPS	TYPE	INLET				OUTLET			
		Ø D	B	A	d	Ø D	B	A	d
	From 55 to 64	32 *(1.26")*	58.7 *(2.31")*	30.2 *(1.26")*	7/16-14 UNC	19 *(0.75")*	47.6 *(1.87")*	22.22 *(0.87")*	3/8-16 UNC
	From 75 to 98	38 *(1.50")*	69.8 *(2.75")*	35.7 *(1.41")*		26 *(1.02")*	52.4 *(2.06")*	26.2 *(1.03")*	

BI-DIRECTIONAL PUMPS Special version available on request.

DRIVE SHAFTS



code 48 Max torque 420 Nm
Tapered 1:8

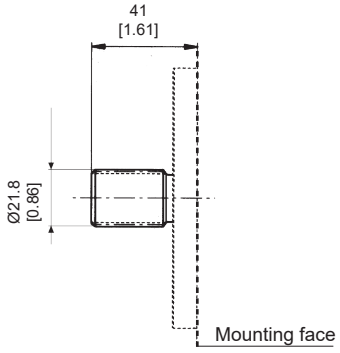


code 49 Max torque 460 Nm
Tapered 1:8 (only for P4)

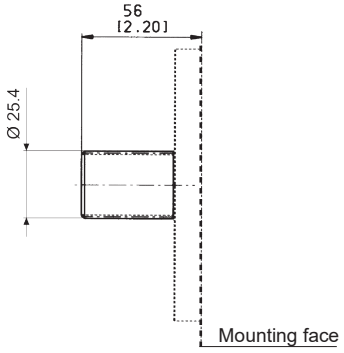
E0.114.0219.02.00IM05

GEAR PUMPS "C" SERIES
Aluminium Body

3.5PC

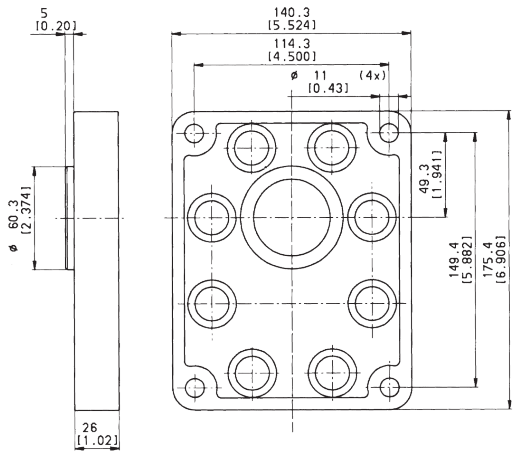


code 55	Max torque 300 Nm
SAE B Splined 13T-16/32DP Ansi B92 1a 1976	

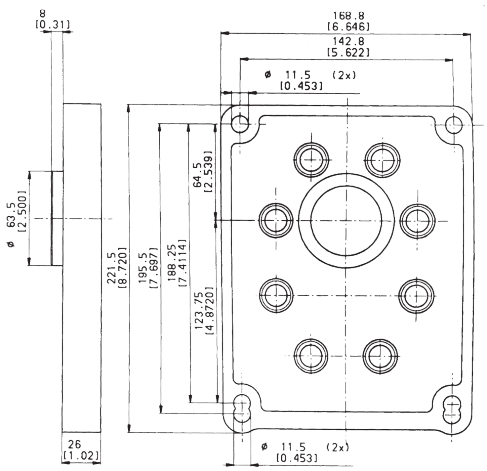


code 56	Max torque 460 Nm
SAE BB Splined 15T-16/32DP Ansi B92 1a 1976	

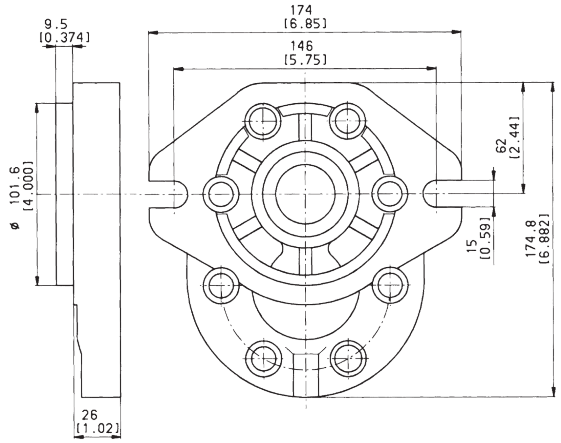
MOUNTING FLANGES



P3	European standard Ø60.3
With shaft code 48	



P4	European standard Ø63.5
With shaft code 49	



S3	SAE B 2 bolts
With shaft code 55-56	

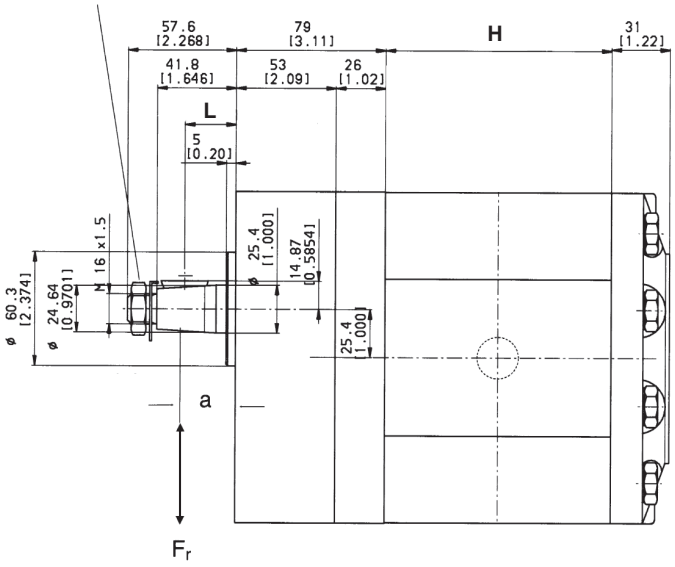
E0.114.0219.02.00IM05

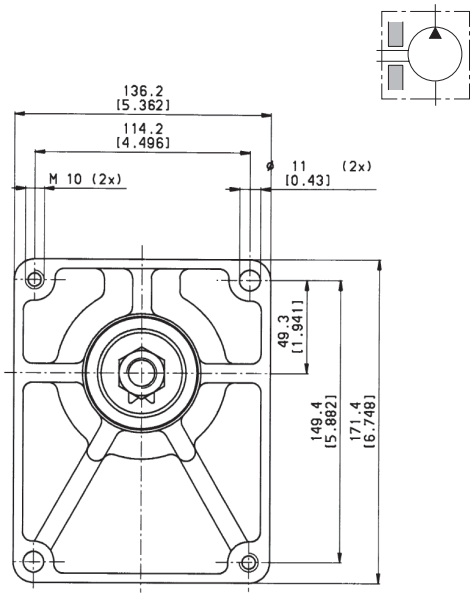
3.5PC

GEAR PUMPS "C" SERIES
Aluminium Body

OUTRIGGER BEARING

Tightening torque 100 Nm





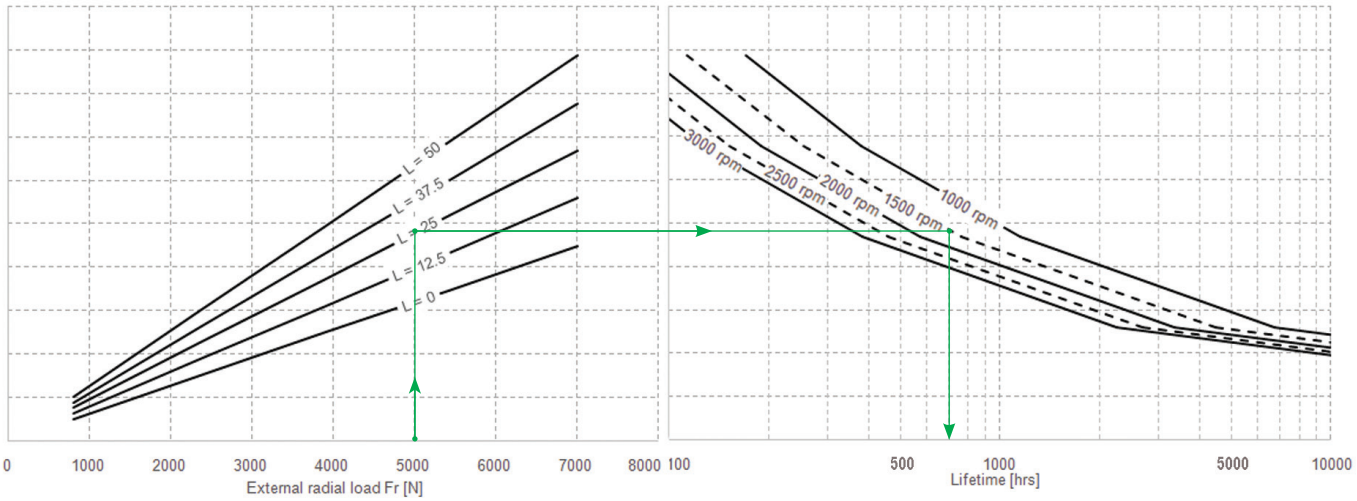
The following diagrams show radial load capability of the bearing.
Calculation according to ISO 281 at 10 cSt.

CP	European standard Ø60.3
With shaft code 48	

TYPE	H
75	184 (7.24")
87	192 (7.55")
98	197 (7.75")

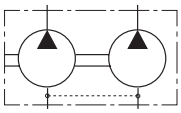
L=Distance between mounting flange and radial force point of application.

Example:
Fr = 5000 N
L = 25
Speed = 1500 rpm
→ Expected life: 700 hrs

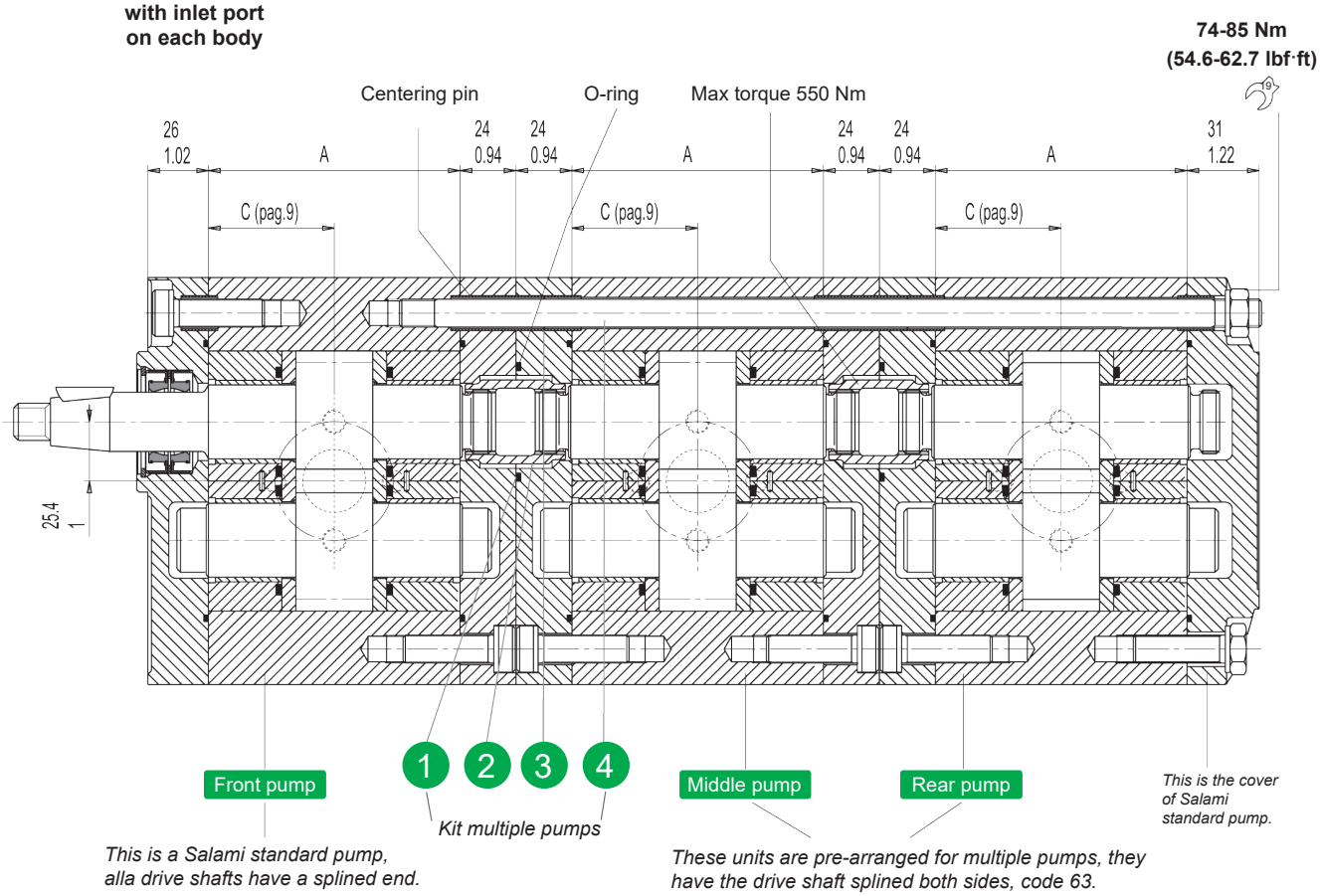


E0.114.0219.02.00IM05

MULTIPLE GEAR PUMPS ASSEMBLING DIMENSIONS



MULTIPLE GEAR PUMPS with inlet port on each body



The 3.5PC pumps can be easily transformed into front pump in the multiple units. All drive shafts are pre-arranged and have a splined end according DIN 5482. The first unit must always be the same size or bigger than following units. The features and performances are the same of the corresponding single units: only in the case of simultaneous operating you have to verify that the inlet torque is lower than the max. transmissible by the drive shaft. In case of common inlet port, to avoid too high value of oil speed, 40l/min is the max. sucked flow for the downstream pump. Finally to assembly the multiple pump you need to order bolts of the right length.

Type		55	64	75	87	98
Dimension A	mm	108	120	127	135	140
	in	*4.25*	*4.72*	*5.00*	*5.31*	*5.51*
Dimension C	mm	80	86	89.5	93.5	96
	in	*3.14*	*3.38*	*3.52*	3.68	*3.77*

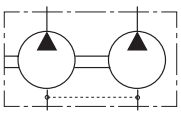
3.5PC

GEAR PUMPS “C” SERIES
Aluminium Body

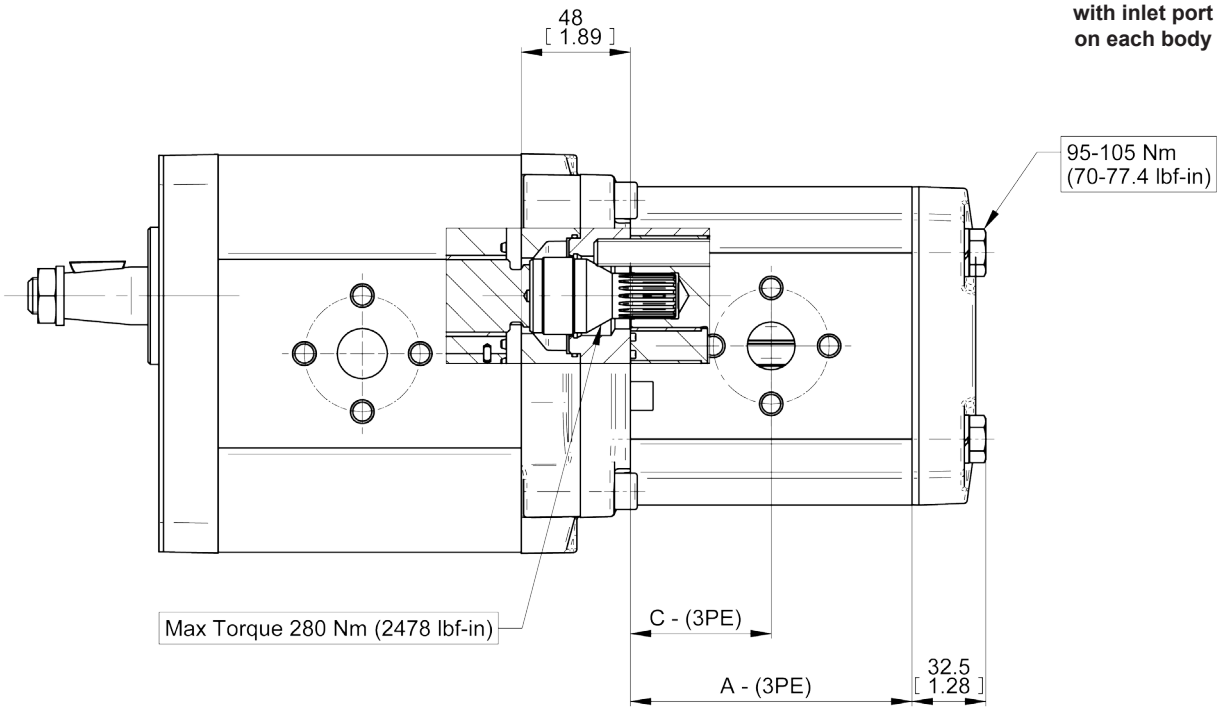
3.5PC COMBINATION WITH 3PE

PD3

Kit multiple pumps
Pre-arranged for 3PE rear



MULTIPLE GEAR PUMPS with inlet port on each body



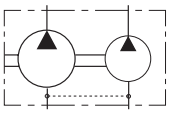
3PE-Type		21*	27	33	38	46	55	65	75*
Dimension A - 3PE	mm	74	79	84	88	104	110	117	124
	in	*2.91*	*3.11*	*3.31*	*3.46*	*4.09*	*4.33*	*4.61*	*4.88*
Dimension C - 3PE	mm	37	39.5	42	44	52	55	58.5	62
	in	*1.46*	*1.56*	*1.65*	*1.73*	*2.05*	*2.17*	*2.30*	*2.44*

E0.114.0219.02.00IM05

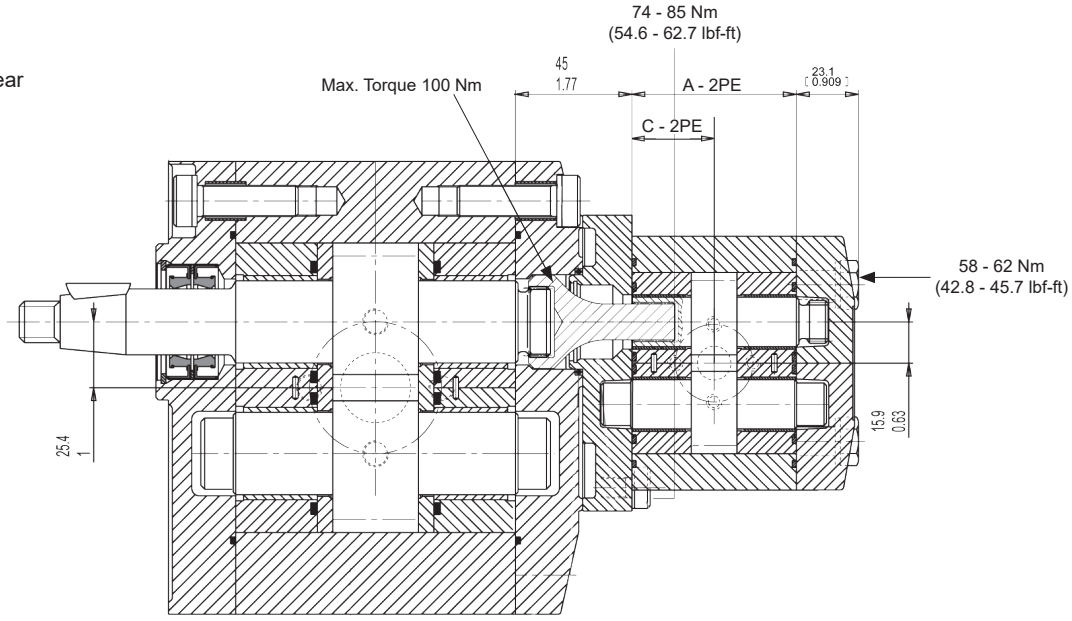
3.5PC COMBINATION WITH 2PE

PD2

Kit multiple pumps
Pre-arranged for 2PE rear



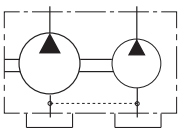
MULTIPLE GEAR PUMPS with inlet port on each body



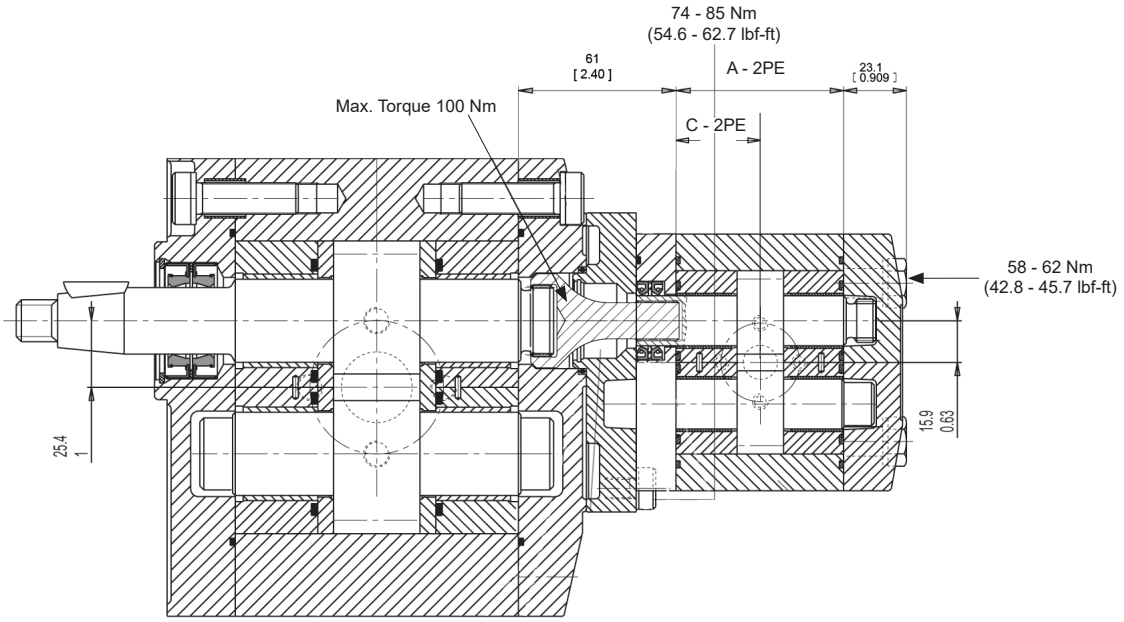
2PE-Type		3.2*	3.9*	4.5	6.5	8.3	10.5	11.3	12.5	13.8	16	19	22.5	26
Dimension A - 2PE	mm *in*	47.1 *1.83*			49.95 *1.97*	52.8 *2.07*	56.3 *2.22*	59.7 *2.35*		63.5 *2.5*	67.5 *2.65*	75.6 *2.97*	81 *3.19*	86.8 *3.42*
Dimension C - 2PE	mm *in*	23.55 *0.93*			25 0.98	26.4 *1.04*	28.15 *1.11*	29.75 *1.17*		31.75 *1.25*	33.75 *1.33*	37.80 *1.49*	40.5 *1.59*	43.4 *1.71*

*Available only as rear pump

code AS



MULTIPLE GEAR PUMPS with separated stages

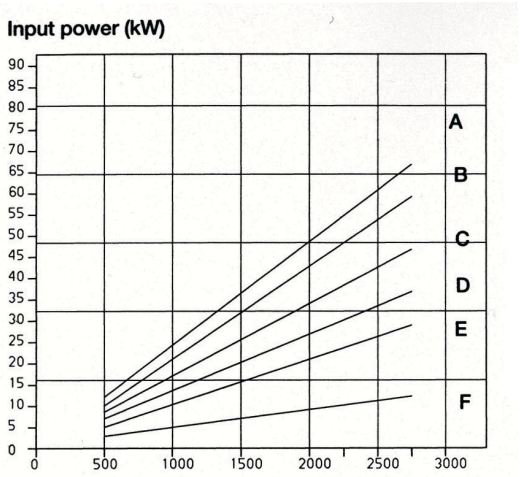


3.5PC

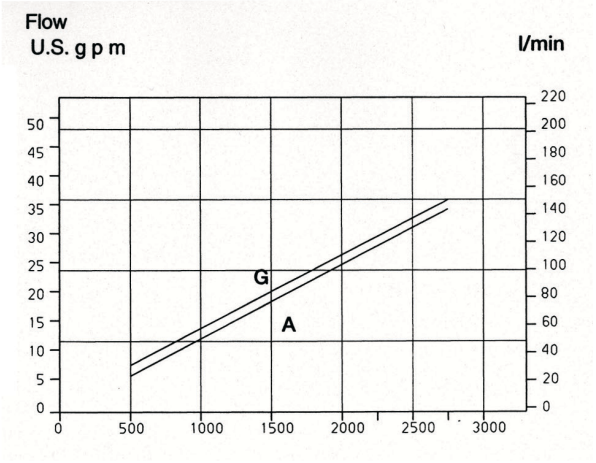
GEAR PUMPS "C" SERIES
Aluminium Body

PERFORMANCE CURVES

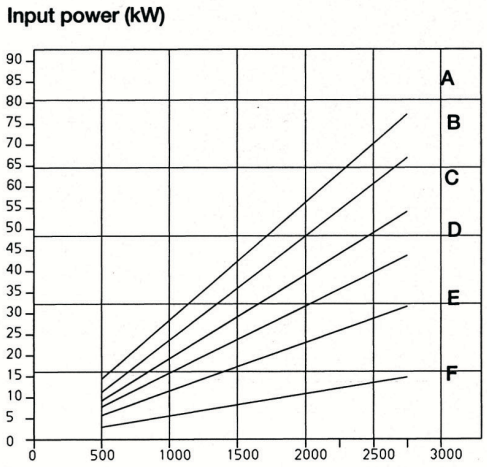
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C

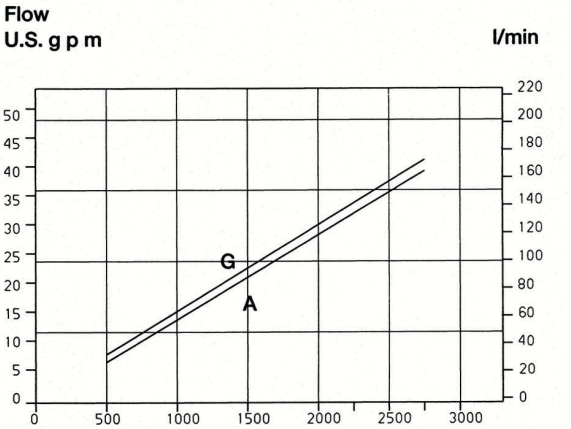


A=250bar - *(3625 psi)*
A1=230bar - *(3335 psi)*
B=220bar - *(3190psi)*
C=175bar - *(2538 psi)*
D=140bar - *(2030 psi)*
E=105bar - *(1522 psi)*
F=50bar - *(725 psi)*
G=7bar - *(101 psi)*

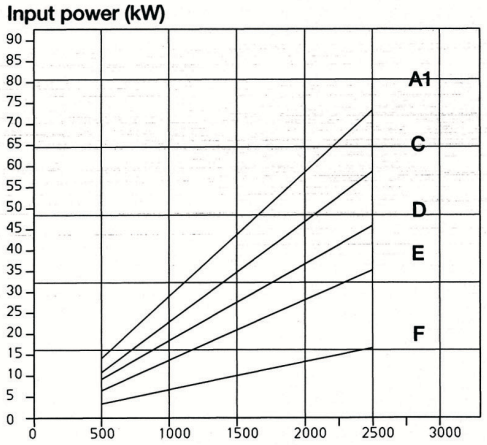


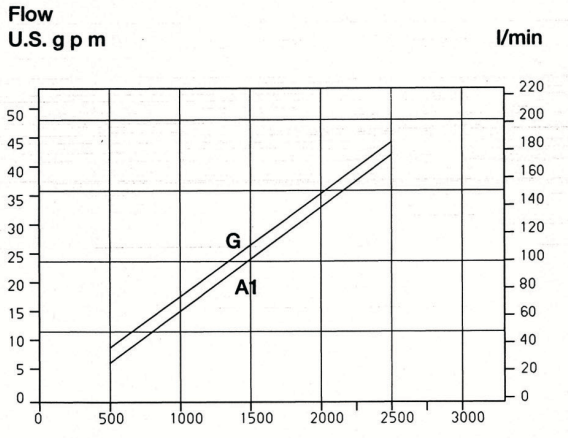
3.5PC - 55





3.5PC - 64





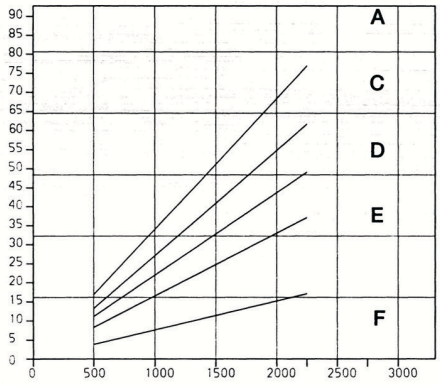
3.5PC - 75

E0.114.0219.02.00IM05

PERFORMANCE CURVES

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

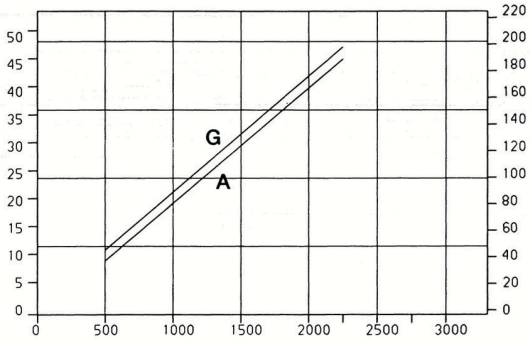
Input power (kW)



A=250bar - *(3625 psi)*
A1=230bar - *(3335 psi)*
B=220bar - *(3190psi)*
C=175bar - *(2538 psi)*
D=140bar - *(2030 psi)*
E=105bar - *(1522 psi)*
F=50bar - *(725 psi)*
G=7bar - *(101 psi)*

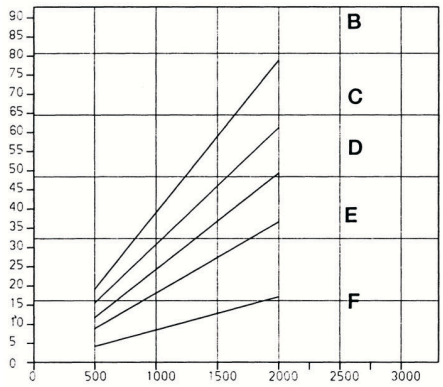
Shaft speed r.p.m

Flow
U.S. g p m **l/min**



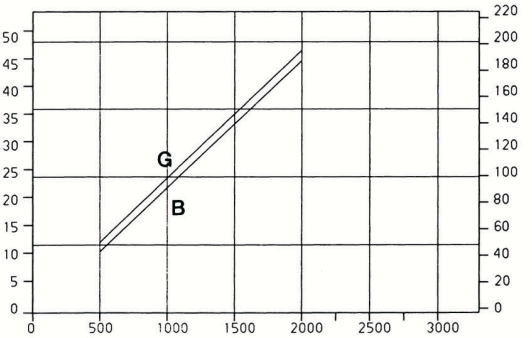
3.5PC - 87

Input power (kW)



Shaft speed r.p.m

Flow
U.S. g p m **l/min**



3.5PC - 98

E0.114.0219.02.00IM05

How to order-3.5PC

GEAR PUMPS "C" SERIES
Aluminium Body

SINGLE PUMPS

DISPLACEMENTS		A CODES
54.8 cm³/rev.	*3.34 cu.in/rev.*	55
63.2 cm³/rev.	*3.85 cu.in/rev.*	64
74.7 cm³/rev.	*4.55 cu.in/rev.*	75
88 cm³/rev.	*5.36 cu.in/rev.*	87
99 cm³/rev.	*6.03 cu.in/rev.*	98*

ROTATION (page 6)	CODES B
Clockwise	D
Anti-clockwise	S
Reversible	R

PORTS (page 118)	CODES C
Flanged ports european standard	P
Flanged ports SAE (UNC)	S*

DRIVE SHAFT (page 118)	CODES D
Tapered 1:8 Ø24.64	48
Tapered 1:8 Ø31.75	49
SAE B splined 13T	55*
SAE BB splined 15T	56*
DIN 5482 internal splined **(only for rear pumps- see page 121)**	63

H REAR COVER (page 122)	CODES
Pre-arranged for 3PE rear	PD3
Pre-arranged for 2PE rear	PD2

G OUTRIGGER BEARING (page 120)	CODE
European standard	CP*

F SEAL	CODE
Buna standard	
Viton	V

E MOUNTING FLANGES (page 119)	CODES
European standard Ø60.3	P3
European standard interchangeable with 4PB Ø63.5	P4
SAE B 2 bolts Ø101.6	S3

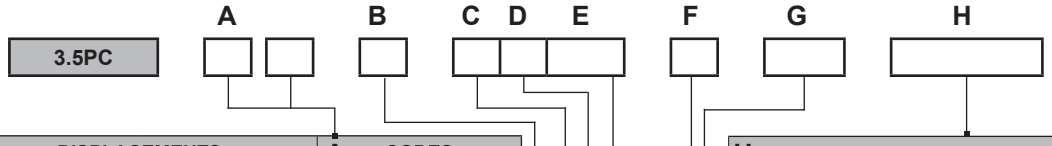
*Available for quantity, please contact our sales department.

Order example: 3.5PC 64D, ports european standard (P), drive shaft (48), mounting flange (P3)
3.5PC64D-P48P3

E0.114.0219.02.00IM05

3.5PC-How to order

MULTIPLE PUMPS



DISPLACEMENTS		A CODES
54.8 cm³/rev.	*3.34 cu.in/rev.*	55
63.2 cm³/rev.	*3.85 cu.in/rev.*	64
74.7 cm³/rev.	*4.55 cu.in/rev.*	75
88 cm³/rev.	*5.36 cu.in/rev.*	87
99 cm³/rev.	*6.03 cu.in/rev.*	98*

ROTATION (page 6)	CODES B
Clockwise	D
Anti-clockwise	S

PORTS (page 118)	CODES C
Flanged ports european standard	P
Flanged ports SAE (UNC)	S*

DRIVE SHAFT (page 118)	CODES D
Tapered 1:8 Ø24.64	48
Tapered 1:8 Ø31.75	49
SAE B splined 13T	55*
SAE BB splined 15T	56*

H REAR COVER (page 122)	CODES
Pre-arranged for 3PE rear	PD3
Pre-arranged for 2PE rear	PD2

G OUTRIGGER BEARING (page120)	CODE
European standard	CP*

F SEAL	CODE
Buna standard	
Viton	V

E MOUNTING FLANGES (page 119)	CODES
European standard Ø60.3	P3
European standard interchangeable with 4PB Ø63.5	P4
SAE B 2 bolts Ø101.6	S3

*Available for quantity, please contact our sales department.

Order example: 3.5PC 75/64D, ports SAE (S), drive shaft (56), mounting flange (S3):
3.5PC75/64D-S56S3

Order example: 3.5PC 75, 3PB 38S ports european standard (P), drive shaft (48), mounting flange (P3):
3.5PC75/3PB38S-P48P3

Order example: 3.5PC 64/2PE 16D, ports european standard (P), drive shaft (49), mounting flange (P4) - separated stages (AS):
3.5PC64/2PE16D-P49P4-AS

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