3.5PC

Aluminium gear pumps

Technical Catalogue

E0.114.0416.02.00IM03

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.

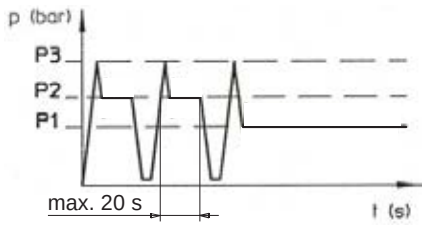
TECHNICAL DATA

- 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

*Available on request.

Important:
in case of assembling of pumps without shaft seals (eg. B4 - B5....), you have to keep the value of min. suction pressure (0.8 bar (abs)) in the vane between pump and coupling too.
Lower pressure can lead to suction of oil through the front flange (seat of the shaft without seal); this can damage seriously the pump.

DEFINITION OF PRESSURES

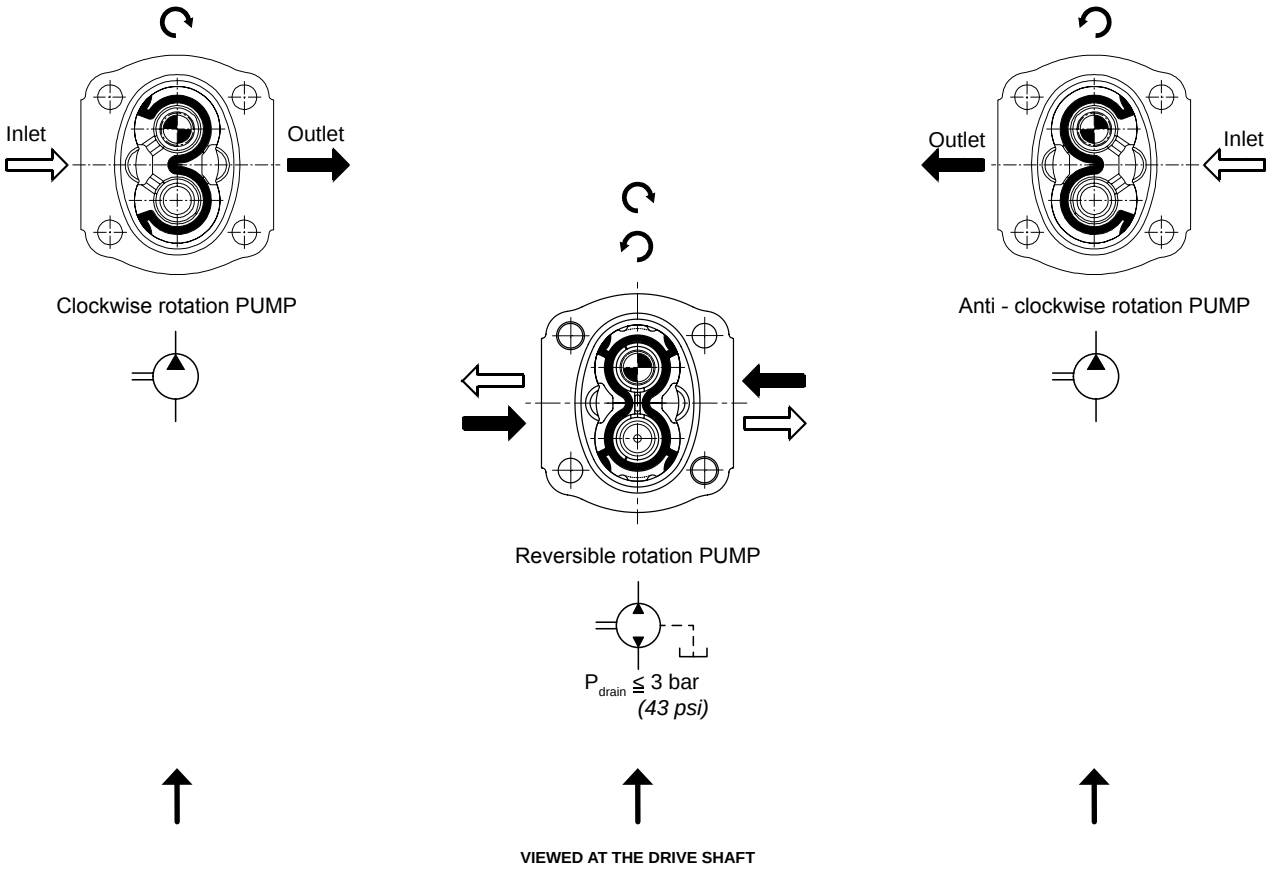


P3 = Peak pressure
P2 = Intermittent operating pressure (1/3 of working time)
P1 = Continuous operating pressure

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.

E0.100.0416.02.00IM00

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

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 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)

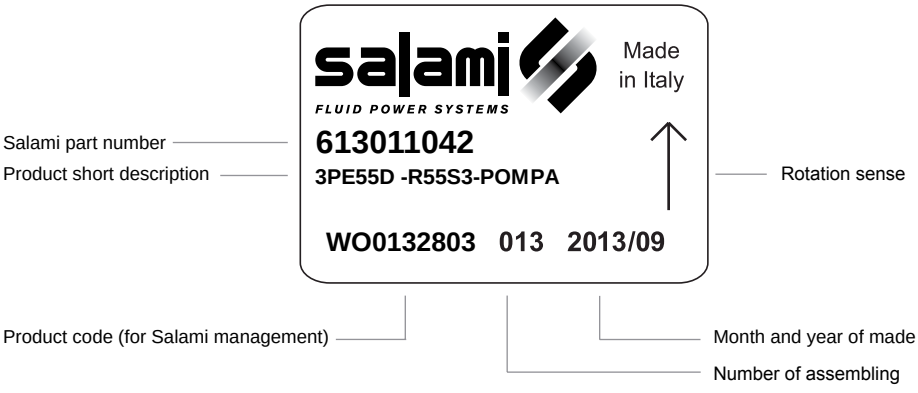
q = Displacement (cm^3/rev)

n = Speed (min^{-1})

η_m = Mechanical eff. (0.92)

η_v = Volumetric eff. (0.95)

IDENTIFICATION LABEL



WORKING CONDITIONS

	Displacement		Working 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*	min⁻¹	
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*	min⁻¹	
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	*3140*	240	*3480*	260	*3750*	3000	400
2PE - 22.5	22.9	*1.37*	200	*2900*	220	*3140*	240	*3480*	2750	400
2PE - 26	25.8	*1.58*	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*	min⁻¹	
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	*3330*	250	*3625*	260	*3750*	3000	500
2.5PB - 38	38.1	*2.32*	200	*2900*	220	*3140*	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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	Displacement		Working pressure P1**		Intermittent pressure P2		Peak pressure P3		Max. speed	Min. speed
GROUP 3 - E SERIES	cm^3/rev	*cu.in/rev*	bar	*psi*	bar	*psi*	bar	*psi*	min^{-1}	
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	*3140*	240	*3480*	250	*3625*	2500	400
3PE - 65	63.1	*3.85*	200	*2900*	220	*3140*	240	*3480*	2500	400
3PE - 75*	73.4	*4.48*	180	*2610*	200	*2900*	220	*3140*	2500	400

*Displacements 21 and 75 are special release, please contact sales department.

GROUP 3.5 - C SERIES	cm^3/rev	*cu.in/rev*	bar	*psi*	bar	*psi*	bar	*psi*	min^{-1}	
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	*3330*	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	*3140*	250	*3625*	2000	300

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

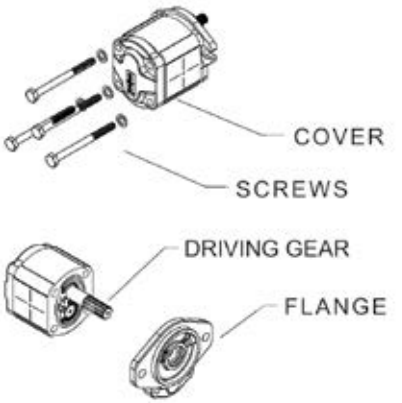
**For working conditions, using exclusively pressure P1, the value of max. speed must be reduced of 10%.

For bidirectional pump the max pressure has to be reduced of 10%.

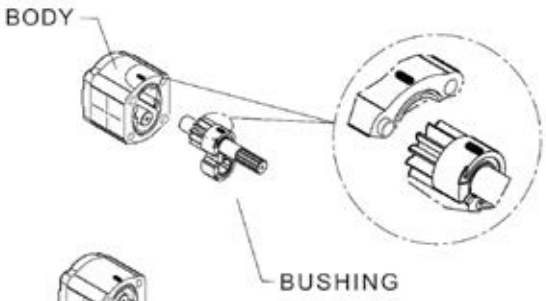
The max pressure is refered to pumps with flanged ports, using the threaded ports the pump life could be reduced.

ROTATION CHANGING INSTRUCTIONS FOR UNITS

Before starting, be sure that the pump is cleaned externally as well as the working area to avoid that particles dangerous for pump working can find their way into the pump. Pump represented is a clockwise rotation pump. To obtain an anti_clockwise rotation read carefully the following instructions.



1 - Loosen and fully unscrew the screws.
2 - Lay the pump on the working area in order to have the mounting flange turned upside.
3 - Coat the shaft extension 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.

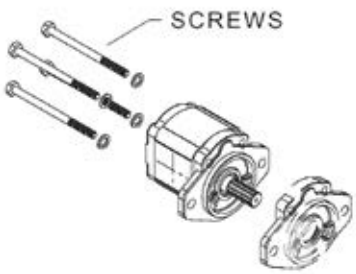


1 - Mark the position of the bushing and eventually the thrust plate, relative to the body.
2 - Remove the bushing, thrust plate and the driving gear taking care to avoid driven gear axial shifts.

1 - Draw out the driven gear from its housing, taking care to avoid rear cover axial shifts.
2 - Re-locate the driven gear in the position previously occupied by the driving gear.

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

1 - 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



1 - Clean body and mounting flange refaced surfaces.
2 - Verify that the two plugs are located in the body.
3 - Refit the mounting flange, turned 180° from its original position.
4 - Replace the clamp bolts and tighten crosswise evenly to a torque you will find at page 8.
Check that the shaft rotates freely.
6 - Mark on the flange the new direction of rotation.

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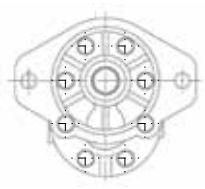
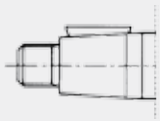
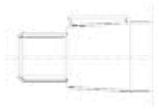
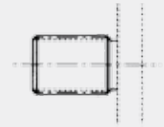
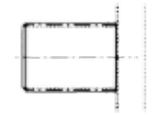
SHAFTS AND FLANGES COMBINATION

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.

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

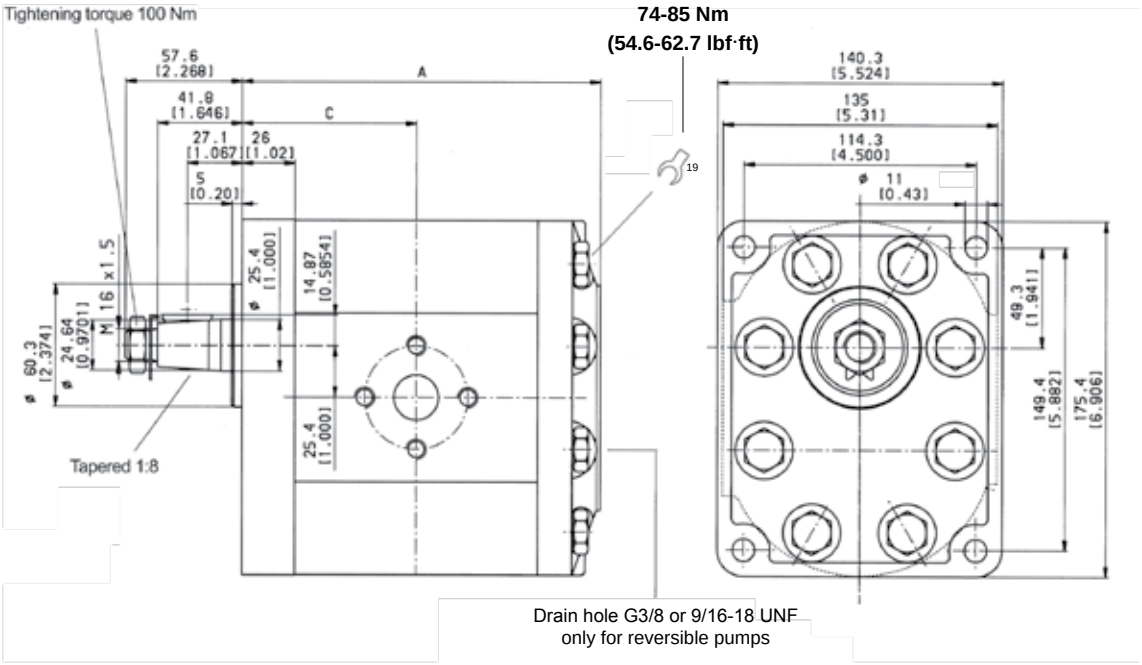
GEAR PUMPS

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

ASSEMBLING DIMENSIONS

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*
Weight	kg *lbs*	10.7 *23.54*	11.4 *25.08*	11.9 *26.18*	12.5 *27.55*	12.8 *28.21*

*Available for quantity.



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

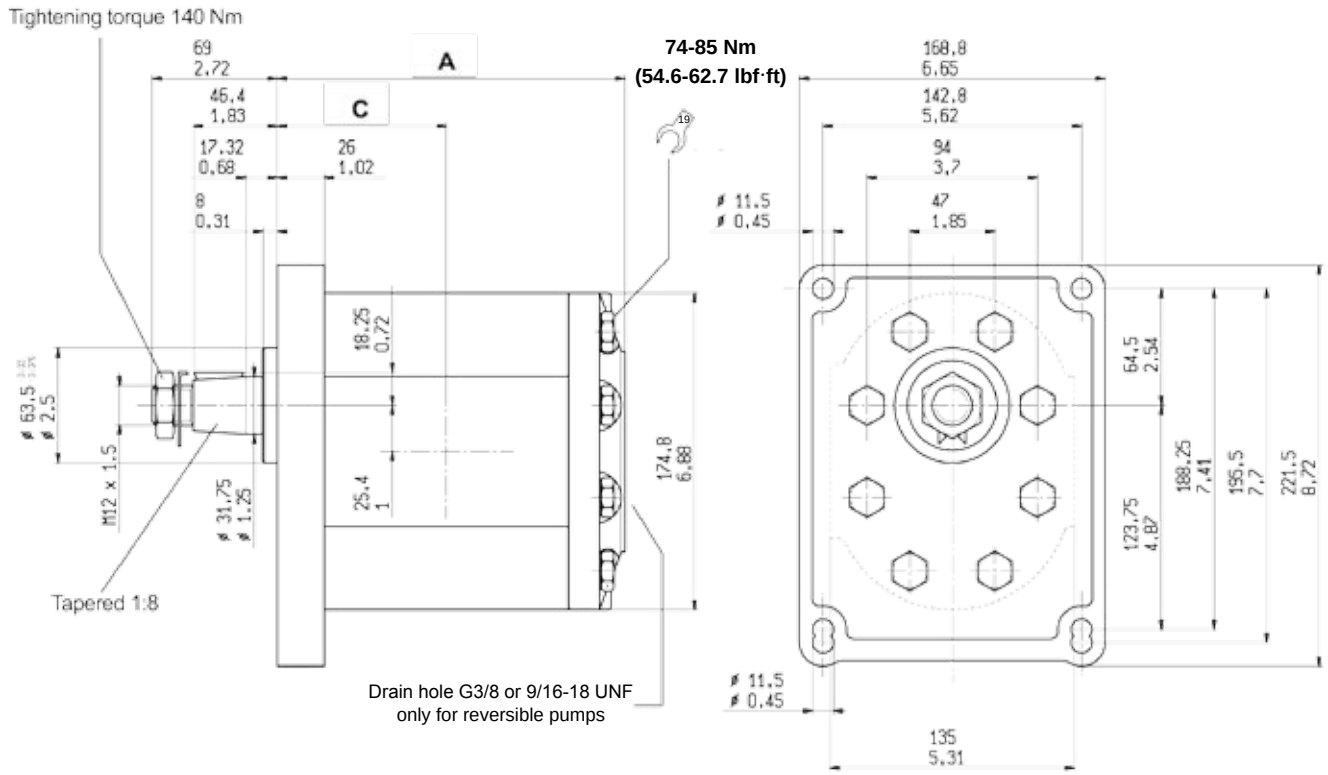
GEAR PUMPS

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*	12.5 *27.5*	13 *28.6*	14 *30.8*

*Available for quantity.



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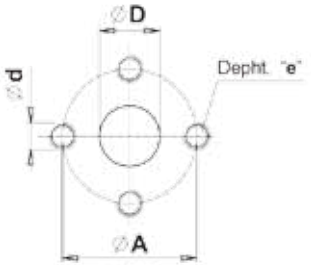
FLANGED AND THREADED PORTS



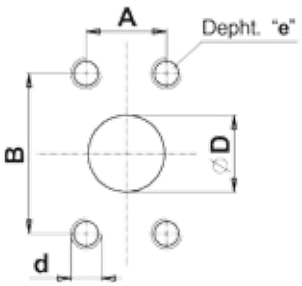
code P

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 *(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

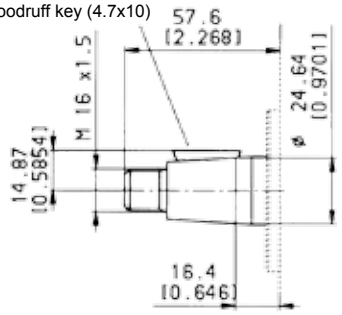
Flanged ports
SAE J518
AMERICAN STANDARD
THREAD

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.

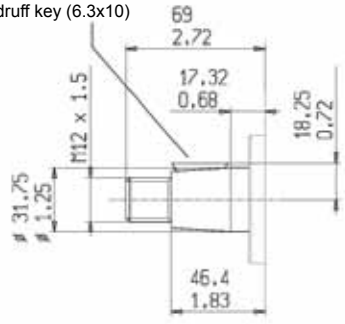
DRIVE SHAFTS

Woodruff key (4.7x10)



code 48	Max torque 420 Nm
Tapered 1:8	

Woodruff key (6.3x10)



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

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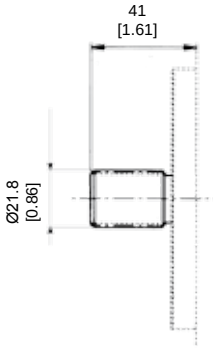
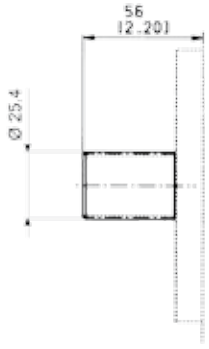
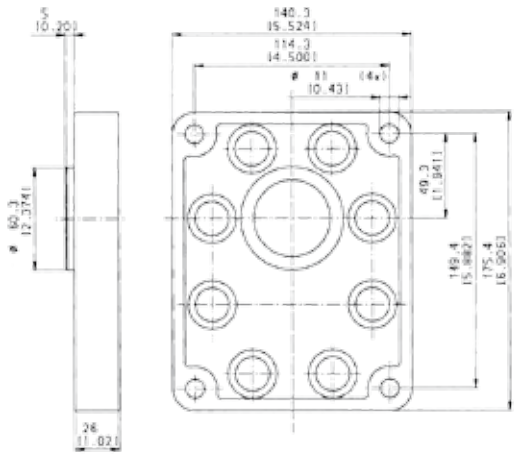


code 55	Max torque 300 Nm
SAE B Splined 13T-16/32DP Ansi B92 1a 1976	

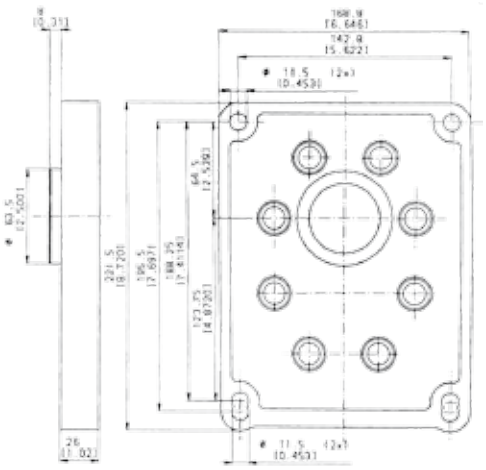


code 56	Max torque 460 Nm
SAE BB Splined 15T-16/32DP Ansi B92 1a 1976	

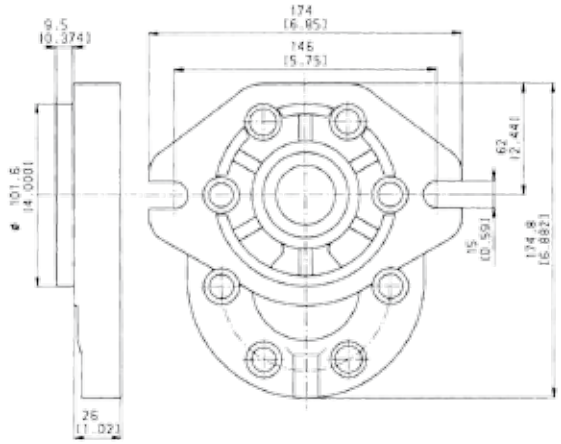
MOUNTING FLANGES



P3	European standard Ø60.3
With shaft code 48	

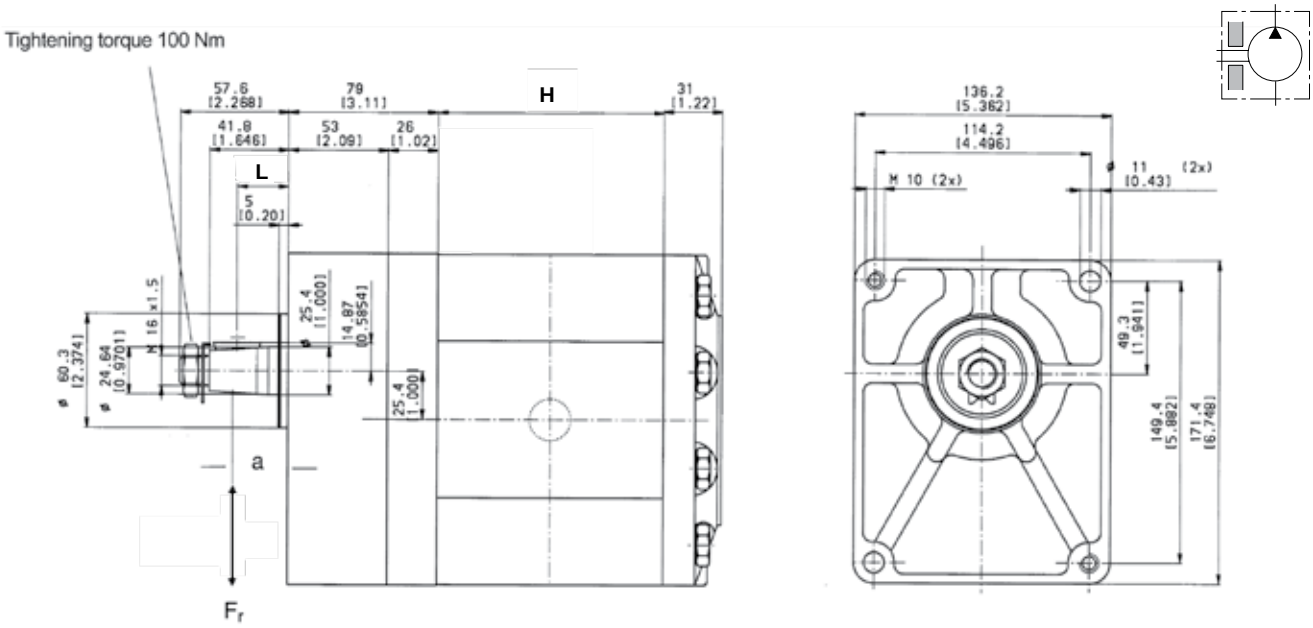


P4	European standard Ø63.5
With shaft code 49	



S3	SAE B 2 bolts
With shaft code 55-56	

OUTRIGGER BEARING



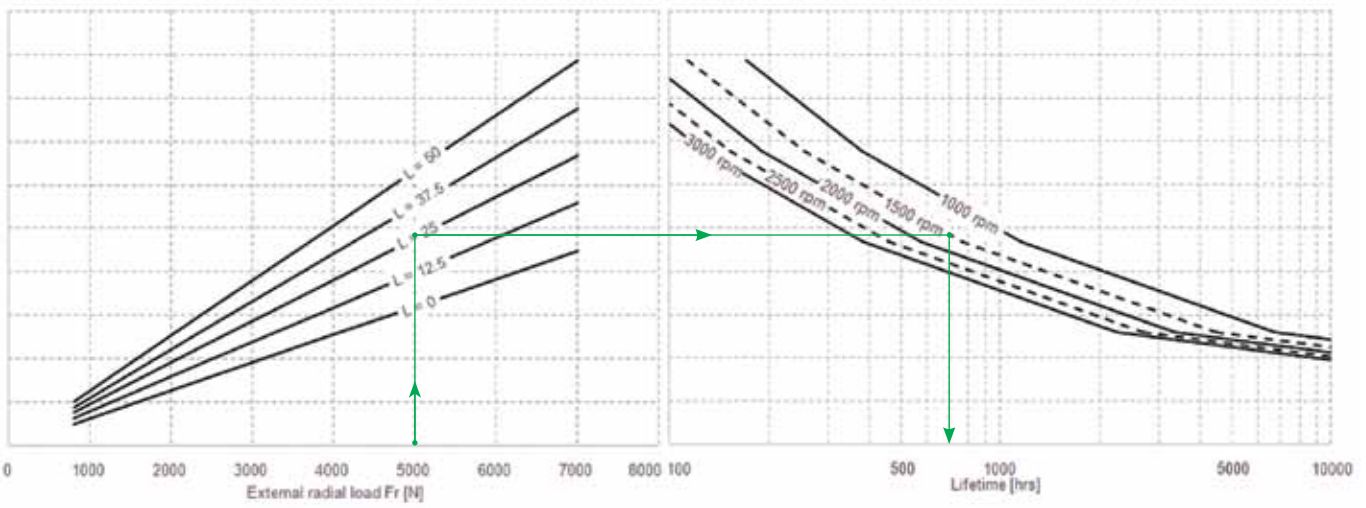
The following diagrams show radial load capability of the bearing.
Calculation according to ISO 281 at 10 cSt.

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



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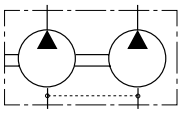
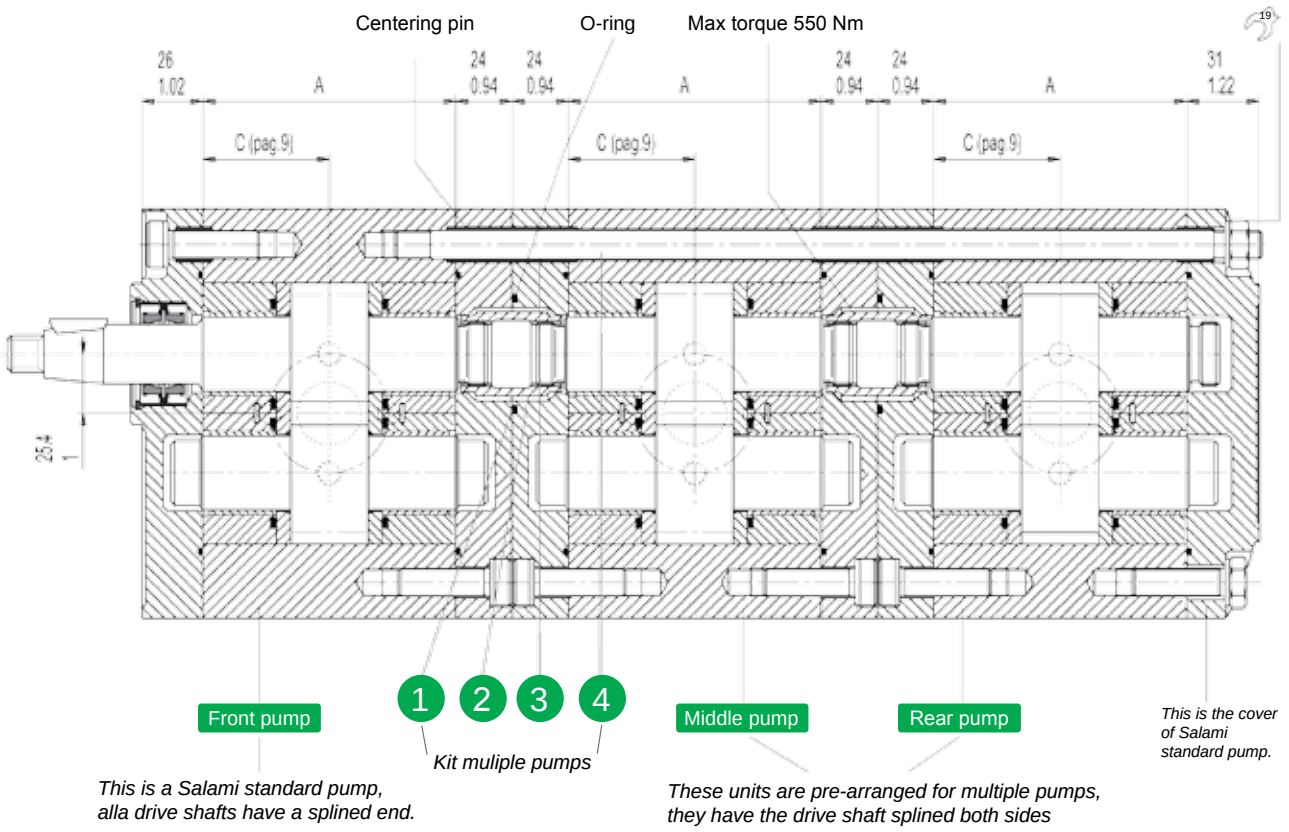
MULTIPLE GEAR PUMPS ASSEMBLING DIMENSIONS



MULTIPLE GEAR PUMPS with inlet port on each body

74-85 Nm (54.6-62.7 lbf·ft)



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.
**Commercial code UA.*

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

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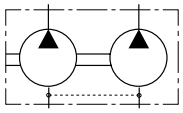
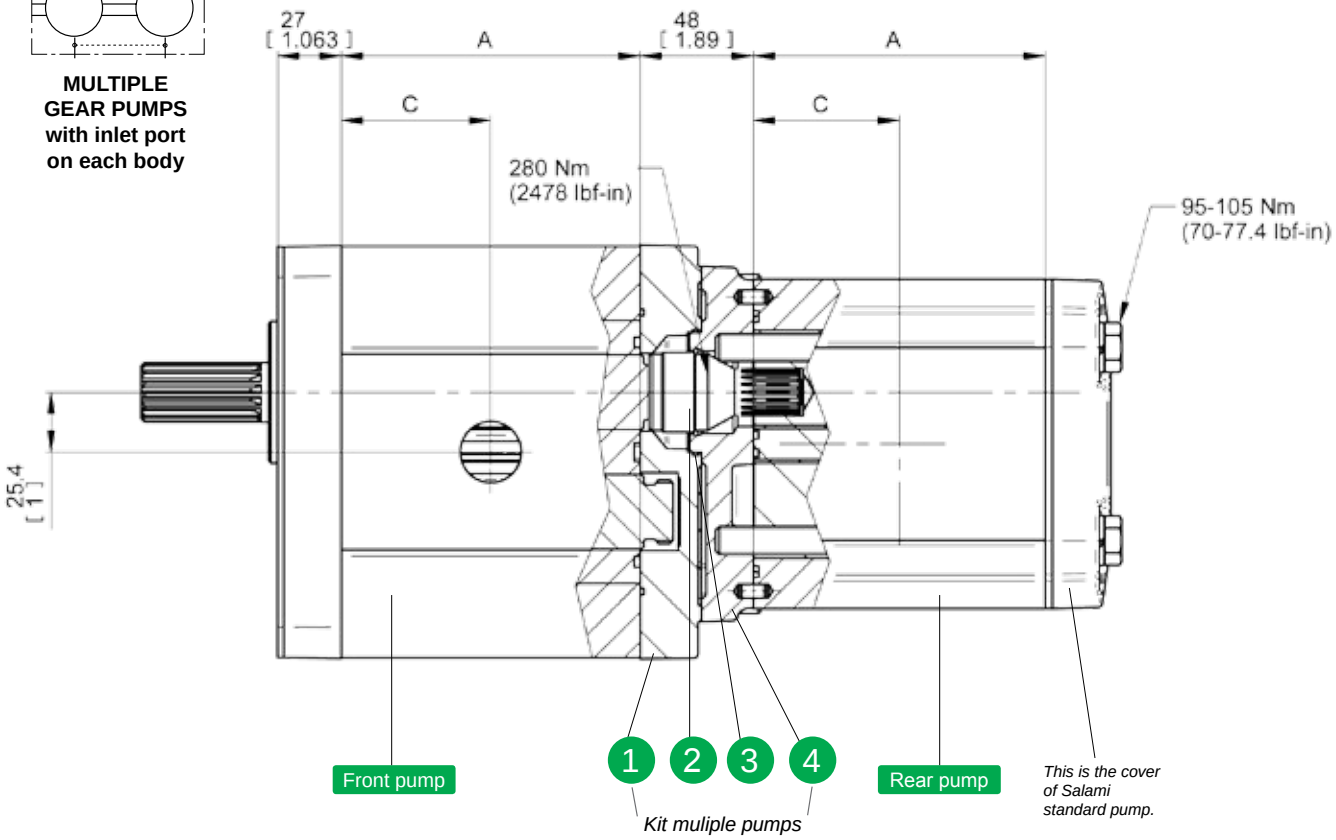
3.5PC COMBINATION WITH 3PE



MULTIPLE GEAR PUMPS with inlet port on each body



This is a Salami standard pump, alla drive shafts have a splined end.

These units are pre-arranged for multiple pumps, they have the drive shaft splined both sides

3.5PC dimensions A and C are available at the previous page.

3PE-Type		21*	27	33	38	46	55	65	75*
Dimension A	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	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*

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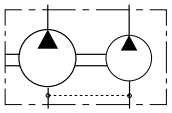
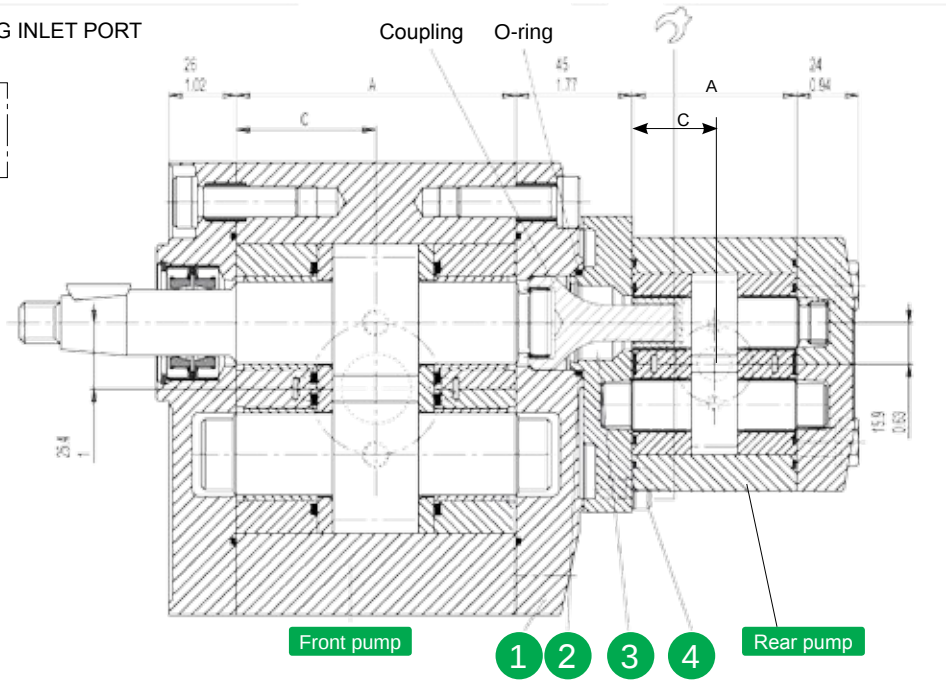
3.5PC COMBINATION WITH 2PE

COMUNICATING INLET PORT



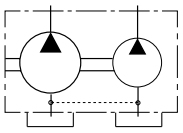
MULTIPLE GEAR PUMPS with inlet port on each body



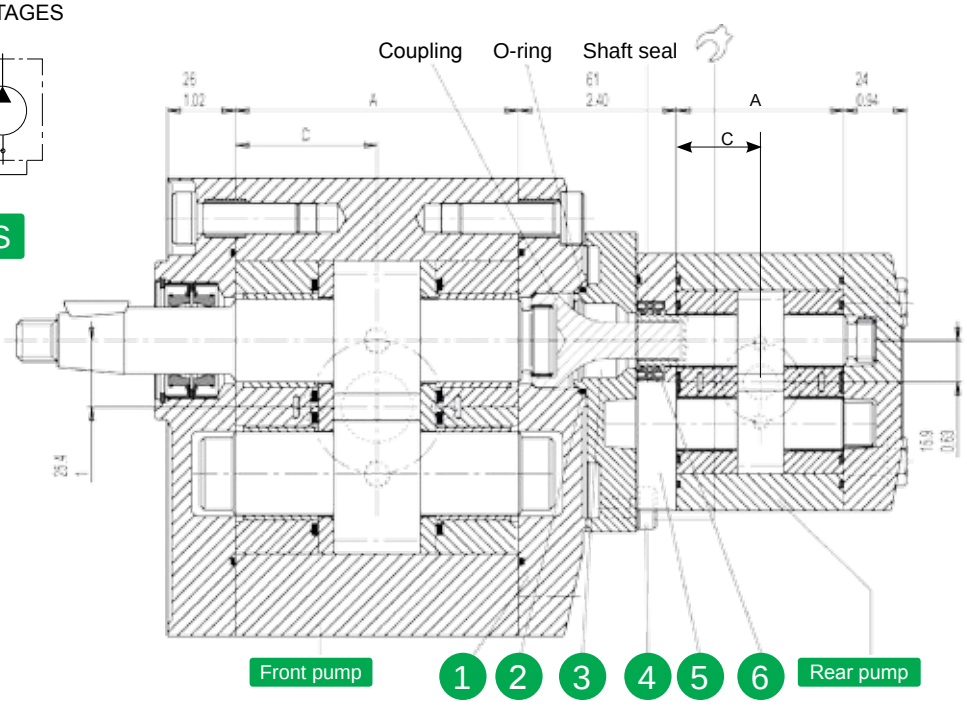
2PE-Type		3.2*	3.9*	4.5	6.5	8.3	10.5	11.3	12.5	13.8	16	19	22.5	26
Dimension A	mm *in*	47.1 *1.83*			49.95 *1.97*	52.8 *2.07*	56.3 *2.22*	59.7 *2.35*		63.5 *2.5*	67.5 *2.65*	75.6 *2.97*	81 *3.19*	86.8 *3.42*
Dimension C	mm *in*	23.55 *0.93*			25 0.98	26.4 *1.04*	28.15 *1.11*	29.75 *1.17*		31.75 *1.25*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

*Available only as rear pump

SEPARATED STAGES

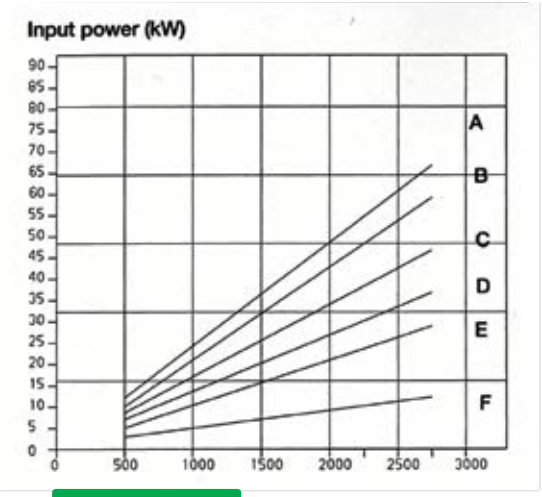


code AS

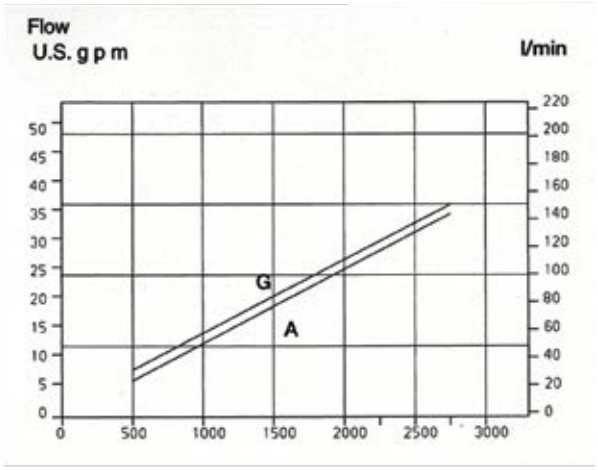


PERFORMANCE CURVES

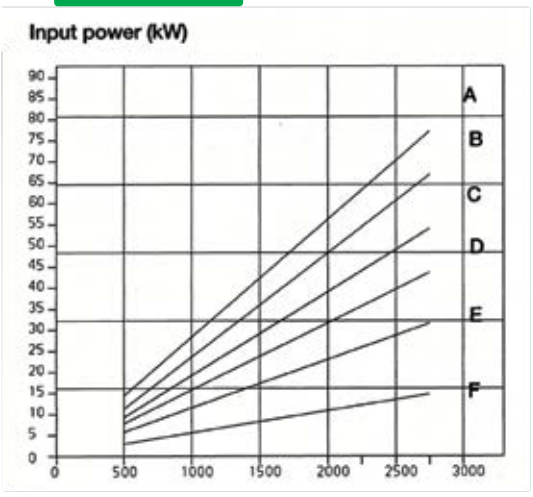
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C

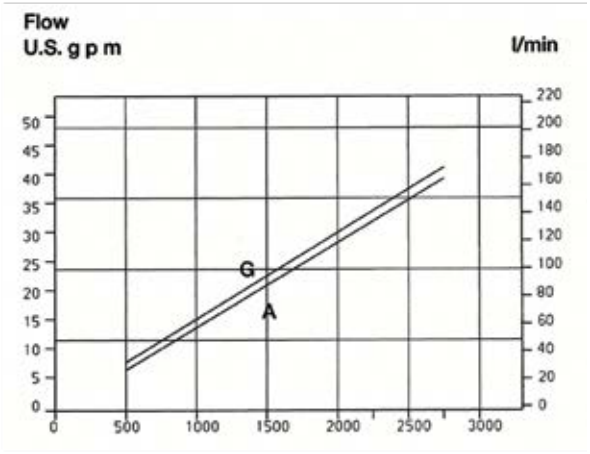


A=250bar - *(3625 psi)*
A1=230bar - *(3335 psi)*
B=220bar - *(3190psi)*
C=175bar - *(2538 psi)*
D=140bar - *(2030 psi)*
E=105bar - *(1522 psi)*
F=50bar - *(725 psi)*
G=7bar - *(101 psi)*

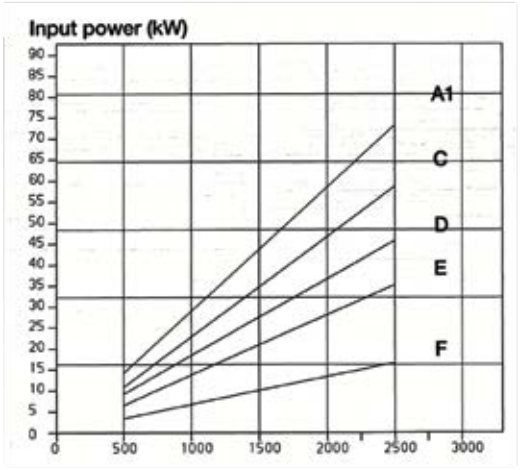


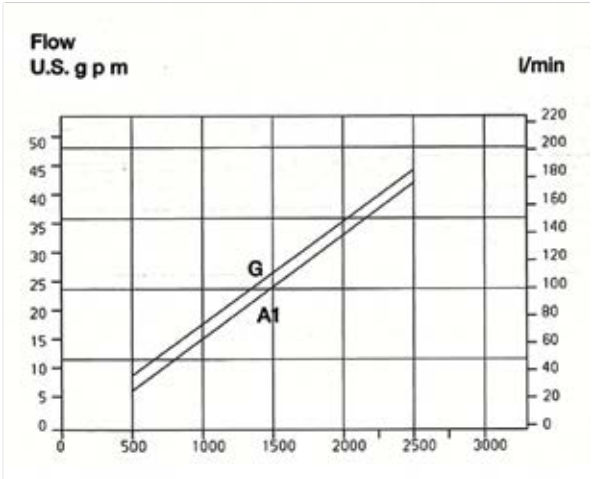
3.5PC - 55



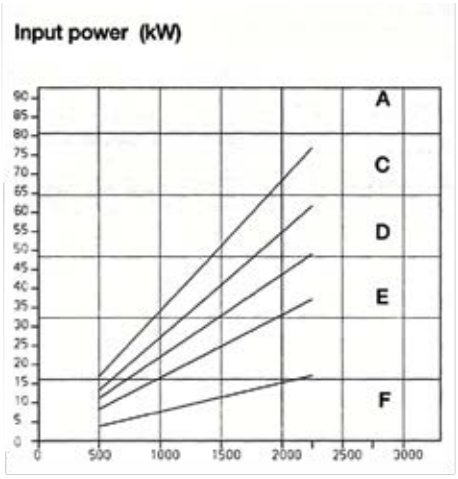


3.5PC - 64

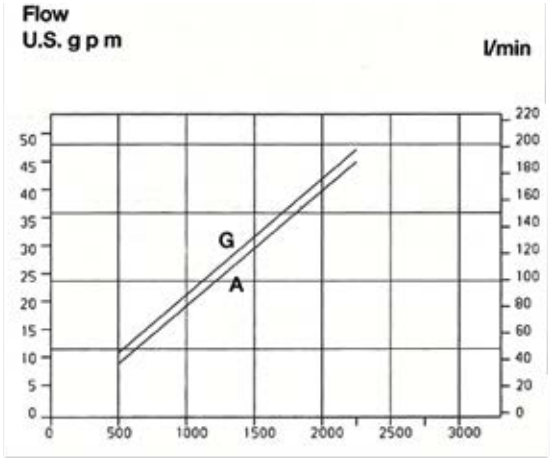




3.5PC - 75

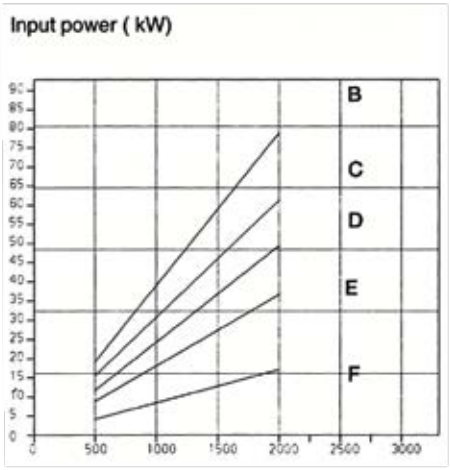


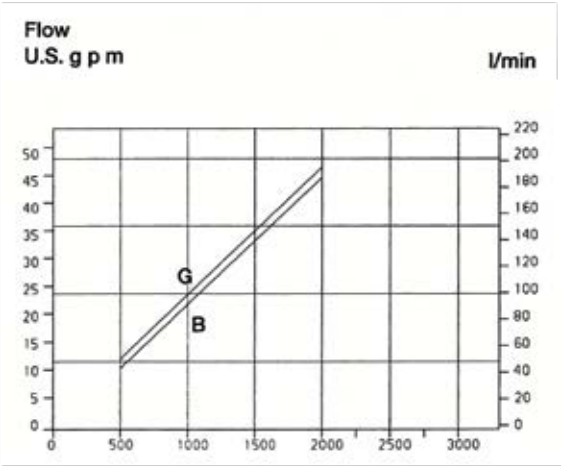
A=250bar - *(3625 psi)*
A1=230bar - *(3335 psi)*
B=220bar - *(3190psi)*
C=175bar - *(2538 psi)*
D=140bar - *(2030 psi)*
E=105bar - *(1522 psi)*
F=50bar - *(725 psi)*
G=7bar - *(101 psi)*



Shaft speed r.p.m

3.5PC - 87





Shaft speed r.p.m

3.5PC - 98

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SINGLE PUMPS

	A	B		C	D	E		F		G		H
3.5PC	64	D	-	P	48	P3	-	V	-	CP	-	PD2-PD3

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

ROTATION (page 4)	CODES B
Clockwise	D
Anti-clockwise	S
Reversible	R

PORTS (page 112)	CODES C
Flanged ports european standard	P
Flanged ports SAE (UNC)	S*

DRIVE SHAFT (page 112)	CODES D
Tapered 1:8 Ø24.64	48
Tapered 1:8 Ø31.75	49
SAE B splined 13T	55*
SAE BB splined 15T	56*

*Available for quantity, please contact our sales department.

H REAR COVER	CODES
Pre-arranged for 3PE rear	**PD3**
Pre-arranged for 2PE rear	**PD2**

G OUTRIGGER BEARING (page 114)	CODES
European standard	CP*

F SEAL	CODE
Buna standard	
Viton	V

E MOUNTING FLANGES (page 113)	CODES
European standard Ø60.3	P3
European standard interchangeable with 4PB Ø63.5	P4
SAE B 2 bolts Ø101.6	S3*

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

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MULTIPLE PUMPS

A		B	C	D	E		F		G		H
3.5PC	75 / 64	D	- P	48	P3	-	V	-	CP	-	PD2-PD3

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

ROTATION (page 4)	CODES B
Clockwise	D
Anti-clockwise	S

PORTS (page 112)	CODES C
Flanged ports european standard	P
Flanged ports SAE (UNC)	S*

DRIVE SHAFT (page 112)	CODES D
Tapered 1:8 Ø24.64	48
Tapered 1:8 Ø31.75	49
SAE B splined 13T	55*
SAE BB splined 15T	56*

*Available for quantity, please contact our sales department.

H REAR COVER	CODES
Pre-arranged for 3PB rear	PD3
Pre-arranged for 2PE rear	PD2

G OUTRIGGER BEARING (page114)	CODES
European standard	CP*

F SEAL	CODE
Buna standard	
Viton	V

E MOUNTING FLANGES (page 113)	CODES
European standard Ø60.3	P3
European standard interchangeable with 4PB Ø63.5	P4
SAE B 2 bolts Ø101.6	S3

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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