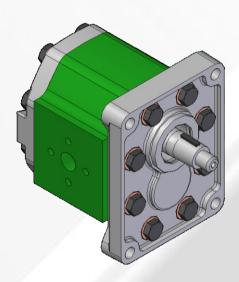
Technical catalogue





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E0.17.1011.02.02

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 departement.

QUICK GUIDE TO SELECT THE RIGHT PUMP SIZE

Definition of pressures

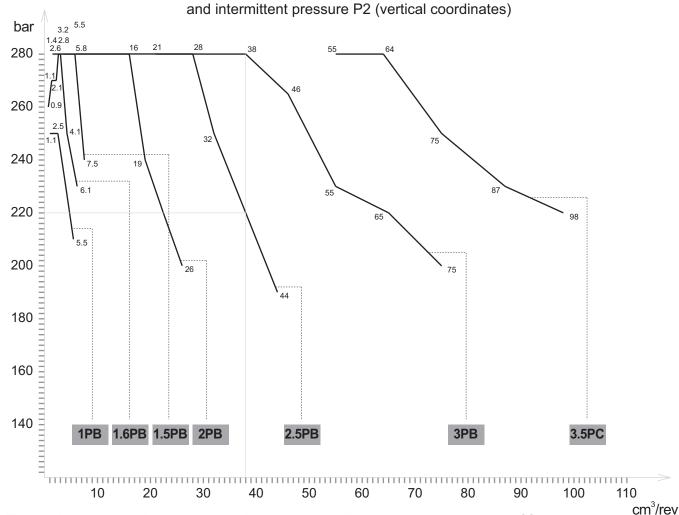


P1 = Continuos operating pressure

P2 = Intermittent operating pressure (1/3 of working time)

P3 = Peak pressure

The diagram shown here below is used as a first dimensioning aid for the choice of pump group. It is based on the value of displacements (horizontal coordinates)



To use the diagram shown above, select the pump displacement on the basis of flow required.

Then draw a vertical line to intersect the line representing the pump series.

Now you can select the group on the basis of required application pressure.

Example: 38 cm³/rev —— 2.5PB 38 220 bar (*3140 psi*)

If required application pressure is more than 220 bar, use a 3 PB

Features

GENERAL

SALAMI gear pumps and motors are available in seven series giving options of displacements from 1.1 cm³/rev to 98 cm³/rev(from 0.06 cu.in./rev to 6.03 cu.in./rev).

All pumps are available as multiple units either of the same or different series.

With all sizes of pumps and motors there are options of shafts, flanges and ports as for European, German and American standards.

SALAMI gear pumps and motors offer:

- · High volumetric efficiency by innovative design and 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 ensure high pressure capability.
- 12 teeth integral gear and shaft.
- · Extruded alluminum body.
- Die cast alluminum cover and flange cast iron rear.
- Double shafts seals in all pump series except Group 1.
- Nitrile seals as standard and viton seals in high temperature applications.
 All pumps and motors are hydraulic tested after assembly to ensure the high standard performance required by SALAMI'S engineering.

WORKING CONDITIONS

THE VALUES OF PRESSURE ARE ABSOLUTE								
- Pump inlet pressure	0,7 to 2,5 bar							
	10 to 36 psi							
- Return pipe line continuos pressure for motors	MAX 2,5 bar - 36 psi							
- Return pipe line intermit. pressure for motors	MAX 6 bar for 15 sec - 85 psi							
- Return pipe line peak pressure for motors	MAX 15 bar - <i>215 psi</i>							
- Minimum operating fluid viscosity	12 mm ² / sec							
- Max starting viscosity	800 mm ² / sec							
- Suggested fluid viscosity range	17 - 65 mm² / sec							
- Fluid operating temperature range	15 to +85 °C							
- Hydraulic fluid	mineral oil							

Important

in case of assembling of pumps without shaft seals (eg. B2 - B3....), you have to keep the value of min. suction pressure (0.7 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.

FIRE RESISTENT FLUID

Туре	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	100 har/2600 mai	1500	-20°C +65°C
HFD	Phosphate esters	180 bar/2600 <i>psi</i>	1750	-10°C +80°C

Features

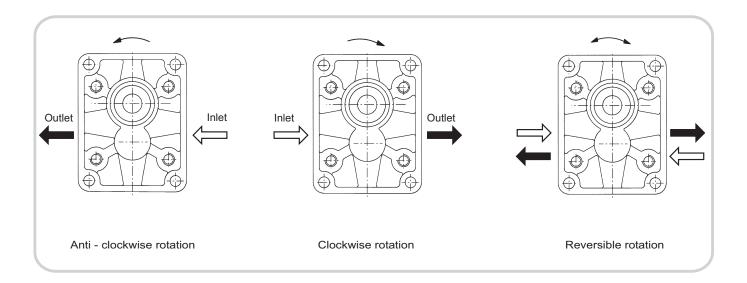
GEAR PUMPS AND MOTORS "B" SERIES

DRIVE SHAFT

Radial and axial loads on the shafts must be avoided since they reduce the life of the unit. Pumps driven by power take - off on engines must always be connected by placing an "Oldham" coupling or coupling having convex toothed hub.

This is to ensure that inevitable misalignment during assembly is reduced to minimum.

PUMP ROTATION DIRECTION VIEWED AT THE DRIVE SHAFT



HYDRAULIC PIPE LINE

To ensure favorable suction conditions it is important to keep pressure drop in suction pipe line to a minimum value (see WORKING CONDITIONS).

To calculte 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. 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	18/15	19/16		
Achieved with filter $ ext{$ ilde{B}_{x}$}$ =75	15 µm	25 μm		

TIGHTENING TORQUE

OUR BOLTS AND TIE-RODS HAVE ALWAYS HEATING TREATMENT OF BLACK BURNISHING

PUM	P TYPE	BOLT	TYPE	TORQUE	10%
SIZE	SERIE	DIAMETER	CLASS	Nm	OF
1	B SINGLE	M 8 x 1.25	8.8	20.5 - 25.5	JRQUE
1	B MULTIPLE	M 8 x 1.25	8.8	20.5 - 25.5	ING TO
2	B SINGLE	M 10x1.5	8.8	47-51	GHTEN
2	B MULTIPLE	M 10x1.5	10.9	50-55	UCE TI
2.5	B SINGLE	M 12	8.8	70-75	ED RED
2.5	B MULTIPLE	M 12	10.9	75-80	; PLATI
3	В	M 10	HEX. BOLT 10.9 HEX. SOCKET H.C.B. 12.9	47-51	S ZINC
3.5	С	M 12	8.8	74-85	ZEW
3	Н	M 14	10.9	BOLT 180 1 5 0 - 1 6 0 TIE ROD	FOR SCREWS ZINC PLATED REDUCE TIGHTENING TORQUE OF 10%

COMMON FORMULAS

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

$$\Delta p = \text{Working pressure (bar)}$$

$$q = \text{Displacement (cm}^3/\text{rev})$$

$$n = \text{Speed (min}^{-1})$$

$$\eta_m = \text{Mechanical eff. (0.92)}$$

$$Q = \text{Outlet flow} \qquad = \frac{q \cdot n \cdot \eta_v}{1000} \text{ (I/min)} \qquad \eta_v = \text{Volumetric eff. (0.95)}$$

Description of the product identification label

Based on the firm certification ISO 9001 - UNI EN 29001, section 4.8 (identification and tracebility of the product), we have adopted a new identification label starting from the 1st march 1995. Pls, see following example:

	Α		
	В		
	С)
E	salami	F	G

A = Product short descritpion (VD8A/FDD/U4G).

B = Customer part number.

C = Salami part number (6235 0025 0).

D = Production batch (for Salami management)

E = Rotation sense (only for pumps).

F = Manufacturing date (see data sheet here below)

G = Progressive number of assembling.

Only for pumps 2PB and 2PZ (except triple 2PB) the identification product is marked on the top of the pump body as shown here below:



Rotation sense.

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
JANUARY	0A	1A	2A	3A	4A	5A	6A	7A	8M	9M	0M	1M	2M	3M	4M	5M
FEBRUARY	0B	1B	2B	3B	4B	5B	6B	7B	8N	9N	0N	1N	2N	3N	4N	5N
MARCH	0C	1C	2C	3C	4C	5C	6C	7C	8P	9P	0P	1P	2P	3P	4P	5P
APRIL	0D	1D	2D	3D	4D	5D	6D	7D	8Q	9Q	0Q	1Q	2Q	3Q	4Q	5Q
MAY	0E	1E	2E	3E	4E	5E	6E	7E	8R	9R	0R	1R	2R	3R	4R	5R
JUNE	0F	1F	2F	3F	4F	5F	6F	7F	88	98	08	1S	2S	3S	48	58
JULY	0G	1G	2G	3G	4G	5G	6G	7G	8T	9T	0T	1T	2T	3T	4T	5T
AUGUST	0H	1H	2H	3H	4H	5H	6H	7H	8U	9U	0U	1U	2U	3U	4U	5U
SEPTEMBER	01	11	21	31	41	51	61	71	8V	9V	0V	1V	2V	3V	4V	5V
OCTOBER	0J	1J	2J	3J	4J	5J	6J	7J	8Z	9Z	0Z	1Z	2Z	3Z	4Z	5Z
NOVEMBER	0K	1K	2K	3K	4K	5K	6K	7K	8X	9X	0X	1X	2X	3X	4X	5X
DECEMBER	0L	1L	2L	3L	4L	5L	6L	7L	8Y	9Y	0Y	1Y	2Y	3Y	4Y	5Y

Features

Rotation changing instructions for pumps GROUP 2 - 2.5 - 3 - 3.5

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 aclockwise rotation

To obtain an anti clockwise rotation read carefully the following instructions. **Picture "A"**

- 1 Loosen and fully unscrew the clamp bolts.
- 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.

Picture "B"

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

Picture "C"

- 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.

Picture "D'

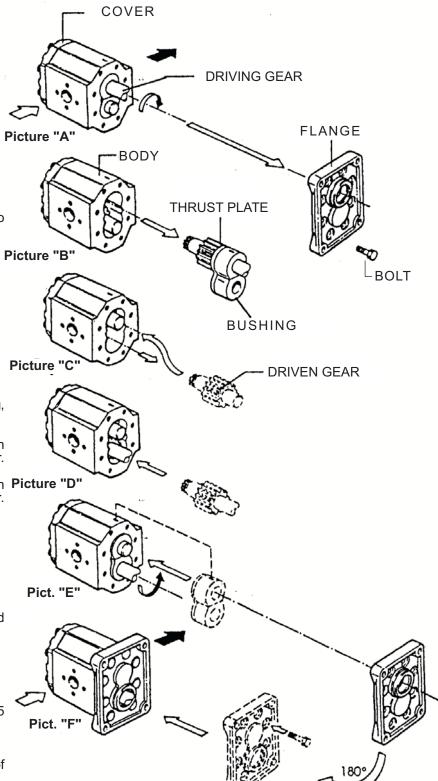
1 - Re-locate the driving gear in the position Picture "D" previously occupied by the driven gear.

Picture "E"

- 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

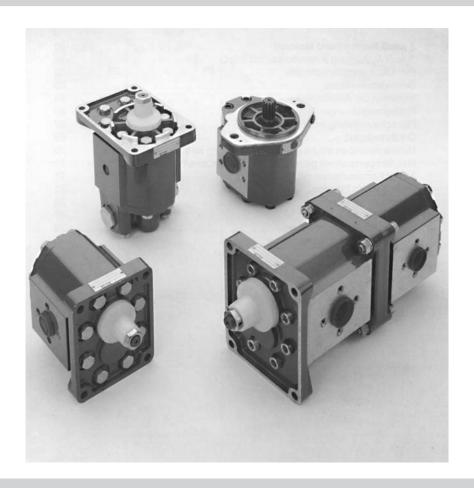
Picture "F"

- 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 of 40 - 45 Nm for 2PB, 2.5PB, 45 - 50 Nm for 3PB, 3.5PB.
- 5 Check that the shaft rotates freely.
- 6 Mark on the flange the new direction of rotation.

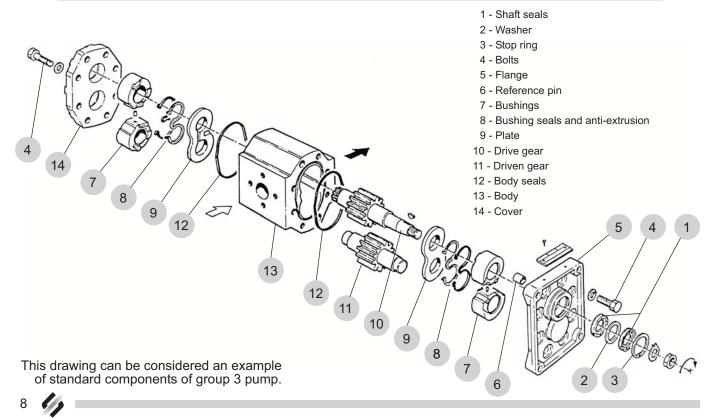


IMPORTANT: TO AVOID A PERFORMANCE LOSS DO NOT CHANGE MOTOR ROTATION

GEAR PUMPS AND MOTORS "B" SERIES



GEAR PUMP IN DETAIL



COMBINATION WITH TYPES OF FLANGES AND DRIVES SHAFTS AVAILABLE

3РВ	P2	**************************************	B6	\$3	ф ф 21
38-48	38 P1	48 P3			
			35 B6		
35	05 P2		05 B6		
55				55 S3	
56				56 S3	
66					66 Z1
87				87 S3	
88				88 S3	

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

GEAR PUMPS AND MOTORS "B" SERIES

Displacements up to 4.48 cu.in./rev Pressure up to 4300 psi



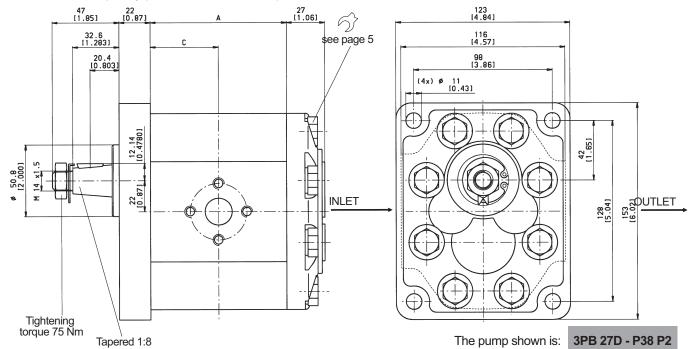
GEAR PUMPS AND MOTORS

Displacements up to 73.4 cm³/rev Pressure up to 300 bar

ASSEMBLING DIMENSIONS AND VALUES OF PRESSURE AND SPEED

Туре			21*	27	33	38	46	55	65	75*
Displacement		cm ³ /rev cu.in./rev	20.6 1.26	27 1.65	33.5 2.04	38.7 2.36	46.9 2.86	54.1 3.30	63.1 3.85	73.4 4.48
Dimension A		mm. <i>in.</i>	74 2.91	79 3.11	92 3.62	96 3.78	114 <i>4.4</i> 9	120 <i>4.</i> 72	127 5.00	134 5.27
Dimension C		mm. <i>in.</i>	37 1.46	39.5 1.56	46 1.81	48 1.89	51 2.01	54 2.13	57.5 2.26	61 2.40
Working pressure	р1	bar <i>psi</i>		250 3600				220 3190	200 2900	180 2600
Intermittent pressure	p2	bar <i>psi</i>			30 900		265 3840	240 3480	220 3140	200 2900
Peak pressure	рЗ	bar <i>psi</i>			00 00		275 3950	250 3600	240 3450	220 3190
Max. speed at	p2	rpm		30	00		2750		2500	
Min. speed at	р1	rpm	600 500				400			
Weight		kg <i>lbs</i>	5.1 11.2	5.3 11.7	5.8 12.8	6 13.2	7 15.4	7.3 16.1	8 17.6	8.4 18.5

*Available for quantity, please contact our sales department.











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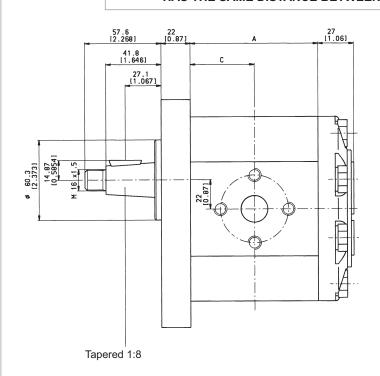
For more information: WWW.SALAMI.IT

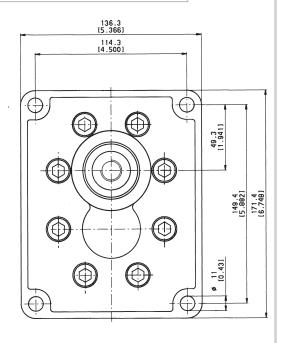
VERSION INTERCHANGEABLE WITH 3.5PC



GEAR PUMPS AND MOTORS

3P/MB VERSION INTERCHANGEABLE WITH 3.5PC MEANS THAT THE FLANGE HAS THE SAME DISTANCE BETWEEN CENTER HOLES OF 3.5PC





Example how to order:

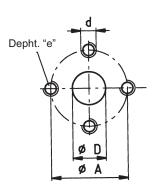
3PB 46D - P48 P3

Туре			46	55	65	75		
Displacement		cm ³ /rev cu.in./rev	46.9 2.86	54.1 3.30	63.1 3.85	73.4 4.48		
Dimension A		mm. <i>in.</i>	114 <i>4.4</i> 9	120 4.72	127 5.00	134 5.27		
Dimension C		mm. <i>in.</i>	51 2.01	54 2.13	57.5 2.26	61 2.40		
Working pressure	р1	bar <i>psi</i>	245 3500	220 3190	200 2900	180 2600		
Intermittent pressure	p2	bar <i>psi</i>	265 3840	240 3480	220 3140	200 2900		
Peak pressure	р3	bar <i>psi</i>	275 3950	250 3600	240 3450	220 3190		
Max. speed at	p2	rpm	2750	2500				
Min. speed at	р1	rpm	500	400				
Weight		kg <i>lbs</i>	7.5 16.5	7.8 17.2	8.2 18.1	8.65 19.1		

GEAR PUMPS AND MOTORS "B" SERIES

For unidirectional motor inlet/outlet ports are reversed.

FLANGED PORTS



Туре		INL	.ET		OUTLET			
	ØD	ØA	d	е	ØD	ØA	d	е
21	22 (0.85")	51	M10	16	17.5	40	MO	13
From 27 to 55	27 (1.05")	(2.01")	M10	(0.62")	(0.68")	(1.56")	M8	(0.51")

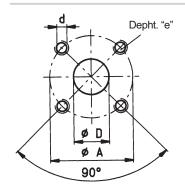
Standard version (for displacements 65 - 75 please contact our sales dept.)

46*	27 (1.05")	51	M10	16 (0.62")	20 (0.78")			
55*		(2.01")				51 (2.01")	M10	16 (0.62")
65*	33	62	N40	20				
75*	(1.30")	(2.44")	M12	(0.78")				

code P

Tightening torque for different threads:

M8: 22 Nm M10: 50 Nm M12: 90 Nm



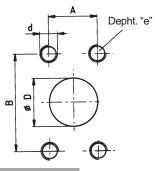
Туре		INL	.ET		OUTLET			
	ØD	ØA	d	е	ØD	ØA	d	е
21	22 (0.85")	55	MO	13 (0.51")	19 (0.74")	55 (2.17")	M8	13
From 27 to 55	27 (1.05")	(2.17")	M8					(0.51")

For displacements 65 - 75 please contact our sales dept.

Tightening torque for different threads:

M8: 22 Nm M10: 50 Nm M12: 90 Nm

code B



Туре			INLET				(OUTLE"	Т	
	ØD	Α	В	d	е	ØD	Α	В	d	е
From 21 to 38	26 (1.01")	26.2 (1.02")	52.4 (2.06")		18	19 (0.74")	22.2 (0.86")	47.6 (1.87")		18
From 46 to 65	32 (1.26")	30.2 (1.19")	58.7 (2.31")	M10	(0.70")	26 (1.01")	26.2 (1.02")	52.4 (2.06")	M10	(0.70")

code W

Available for quantity, please get in touch with our sales dept.

Tightening torque for different threads:

M8: 22 Nm M10: 50 Nm M12: 90 Nm

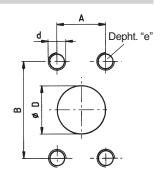


^{*}For version 48 P3 (version interchangeable with 3.5PC see page 11)

3P/MB Group 3

For unidirectional motor inlet/outlet ports are reversed.

Туре	INLET					OUTLET				
	ØD	Α	В	d	е	ØD	Α	В	d	е
From 21 to 38	26 (1.01")	26.2 (1.02")	52.4 (2.06")	3/8-16 UNC	18	19 <i>(0.74")</i>	22.2 (0.86")	47.6 (1.87")	3/8-16	18
From 46 to 75	32 (1.26")	30.2 (1.19")	58.7 (2.31")	7/16-14 UNC	(0.70")	26 (1.01")	26.2 (1.02")	52.4 (2.06")	UNC	(0.70")



Tightening torque for different threads:

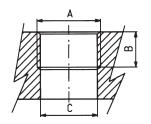
M8: 22 Nm M10: 50 Nm M12: 90 Nm

Available for quantity, please

get in touch with our sales dept.

THREADED PORTS

Туре		INLET		OUTLET			
	Α	В	øс	Α	В	ØС	
From 21 to 38	G1"	22 (0.85")	27	G1"	22	27	
From 46 to 75	G1"1/4	24 (0.93")	(1.05")	G1	(0.85")	(1.05")	

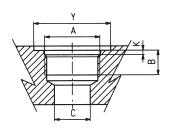


For displacements 65 - 75 please contact our sales dept.

British standard pipe parallel (BSPP)

code G

	Type		INLET				OUTLET				
I		Α	В	ØС	Υ	K	Α	В	ØС	Υ	K
	From 21 to 38	1-5/16 12 UN (SAE 16)	19	21 (0.83")	49 (1.93")	3.3	1-1/16 12 UN (SAE 12)	19	15 (0.58")	41 (1.61")	3.3
	From 46 to 75	1-5/8 12 UN (SAE 20)	(0.74")	27 (1.05")	24 (2.28")	(0.13")	1-5/16 12 UN (SAE 16)	(0.74")	21 (0.83")	49 (1.93")	(0.13")



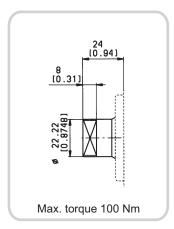
For displacements 65 - 75 please contact our sales dept.

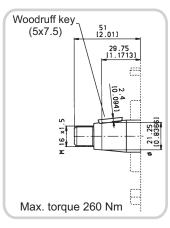
SAE threaded (ODT)

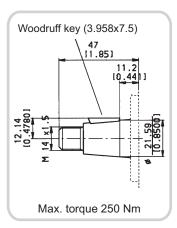
code R

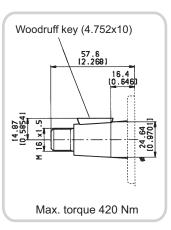
GEAR PUMPS AND MOTORS "B" SERIES

DRIVE SHAFTS









code 05

Tang drive for electric motors

code 35

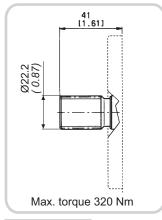
Tapered 1:5

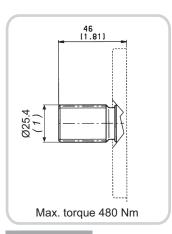
code 38

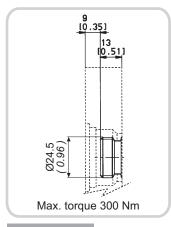
Tapered 1:8

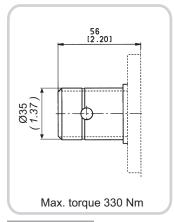
code 48

Tapered 1:8 for Types 46 - 55 - 65 - 75 interchangeable with 3.5pC









code 55

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

code 56

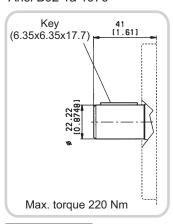
SAE BB 15T-16/32DP Ansi B92 1a 1976

code 63

DIN 5482 splined

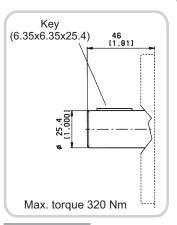
code 66

B8x32x36 DIN 5462-6g7



code 87

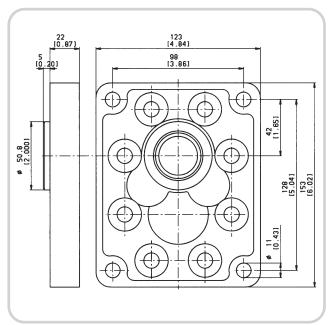
SAE B parallel

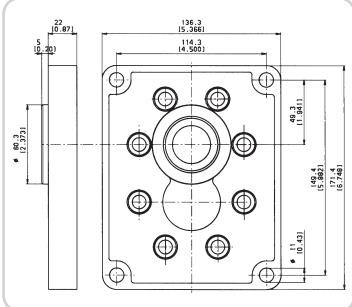


code 88

SAE BB parallel

MOUNTING FLANGES



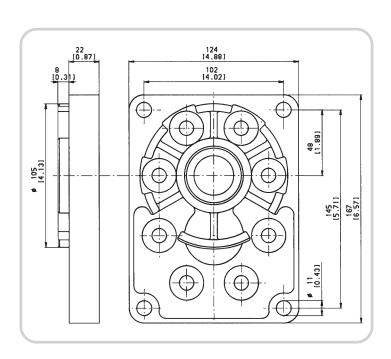


code P2

With shafts code 05 - 38

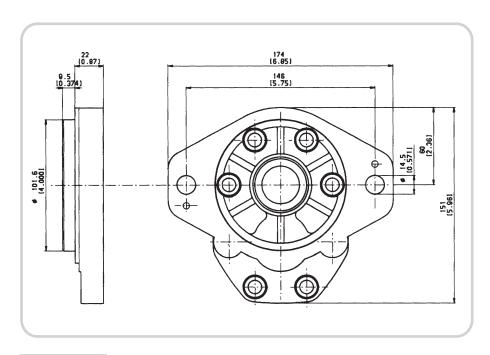
code P3

With shaft code 48

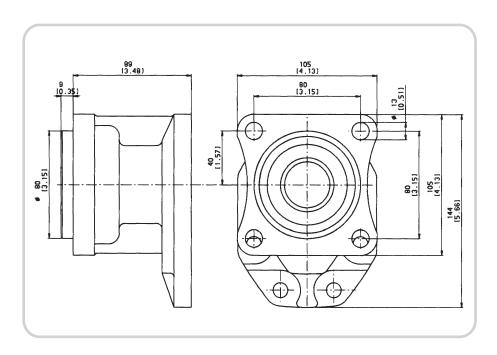


code B6

With shafts code 05 - 35



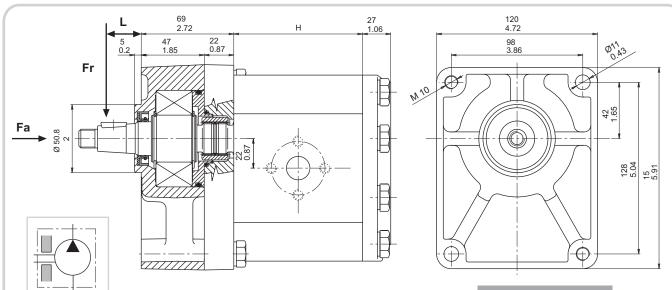
code S3 With shafts code 55-56-87-88 SAE B mounting flange



code Z1 With shaft code 66 Flange on gear box ZF

3P/MB Group 3

OUTRIGGER BEARING

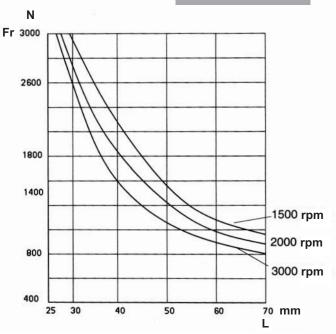


Order example for Pump 3PB with bearing: 3PB 33D - P38 P2 - CP

Туре	H (mm/inch)
21	74 (2.91")
27	79 (3.11")
33	92 (3.62")
38	96 (3.78")
46	114 <i>(4.4</i> 9")
55	120 <i>(4.72")</i>
65	127 (5.00")

The diagram shows the maximum radial load referring to a bearing life of 3000 hours.



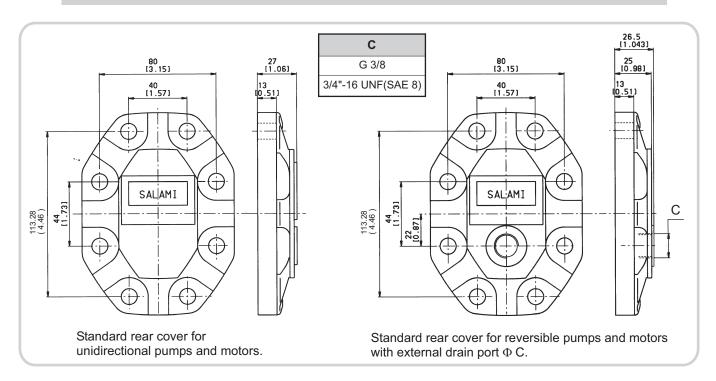


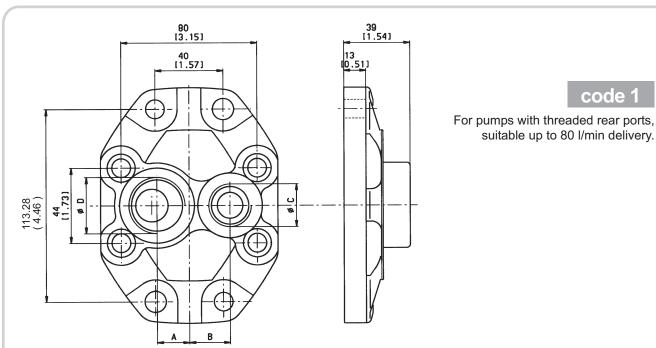
To calculate the absorbed pump-torque or motor efficiency, please use the following formula:

$$C(Nm) = \frac{Cy \Delta p}{62.8}$$

Cy=Displacement pump ∆p=Pressure (bar/psi)

REAR COVERS





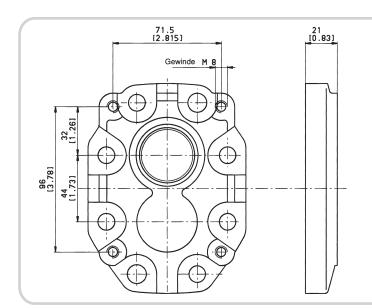
code 1

suitable up to 80 l/min delivery.

In case of order please specify the type of ports:

D	С	Α	В
G1"	G 3/4	19 (0.74")	24 (0.93")
1"-5/16-12 UN(SAE 16)	1"-1/16-12 UN(SAE 12)	20 (0.78")	25 (0.97")

3P/MB Group 3



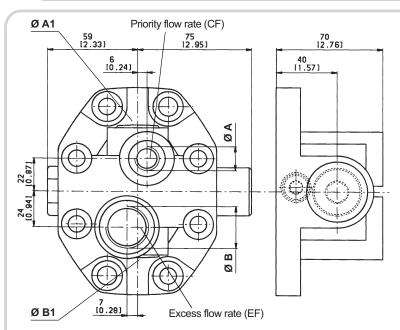
code PD2

Rear cover for 3PB/2PB

Order example:

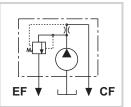
3PB 46D - P38 P2 - PD2

REAR COVER WITH PRIORITY VALVE



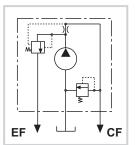
code VP

Priority flow valve, excess flow to second actuator.



code VPS

Priority flow valve, excess flow to second actuator with pressure relief valve on priority flow line.

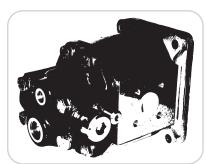


	ØB(ØB1)	ØA(ØA1)
,	G 3/4	G 3/8
) al	1"-1/16-12 UN(SAE 12)	9/16-18 UNF(SAE 6)

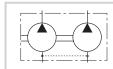
CALIBRATED ORIFICE Ø d(mm/inch)	FLOW RATE (I/min - gpm) ± 10%
2.5 (0.10")	6 (1.5)
2.9 (0.11")	8 (2.1)
3.2 (0.13")	10 (2.6)
3.6 (0.14")	12 (3.1)
3.9 (0.15")	14 (3.6)
4.4 (0.17")	18 <i>(4.7)</i>
4.6 (0.18")	20 (5.2)
5.2 (0.20")	25 (6.6)
5.8 (0.23")	32 (8.4)
6.4 (0.25")	40 (10.5)

PRIORITY FLOW DIVIDERS (VP - VPS)

3 way flow control valve housed in a special cast iron which ensures two flows can be loaded at the same time for supplying two separate circuits defined priority flow(CF) remains constant regardless of pump speed and system pressure variations. The second defined excess flow(EF) is directly proportional to pump speed. Priority flow is determined by diameter of hole on threaded dowel (see table). The max. pressure of the priority circuit can be limited by valve which relieves into pump suction.

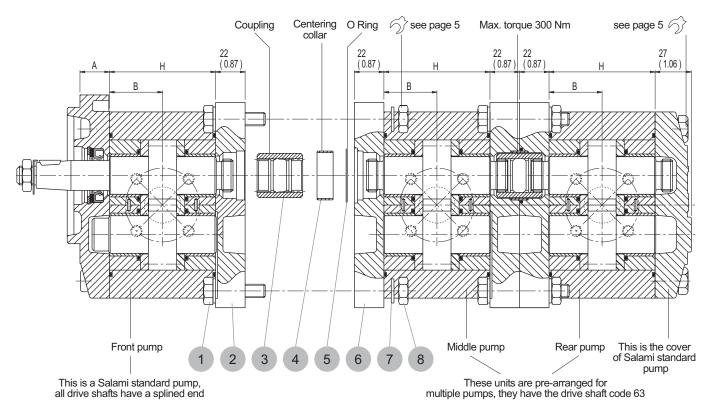


ASSEMBLING DIMENSIONS



MULTIPLE GEAR PUMPS

Туре		21	27	33	38	46	55	65	75
Dimension A (flanges B2 - B3)	mm <i>in</i>		22 0.87						
Dimension A (flanges Z1)	mm <i>in</i>	88 3.46							
Dimension B	mm <i>in</i>	37 1.44	39.5 1.54	46 1.79	48 1.87	51 2.00	54 2.12	57.5 2.24	61 2.40
Dimension H	mm <i>in</i>	74 2.91	79 3.11	92 3.62	96 3.78	114 <i>4.4</i> 9	120 <i>4.</i> 72	127 5.00	134 5.27



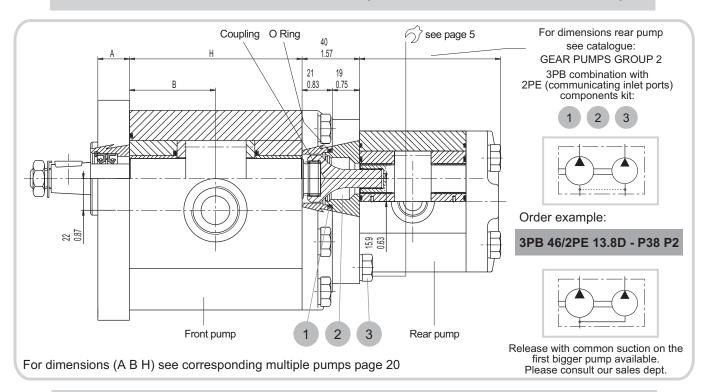
1 2 3 4 5 6 7 8 = kit multiple pumps

The **3PB** 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.

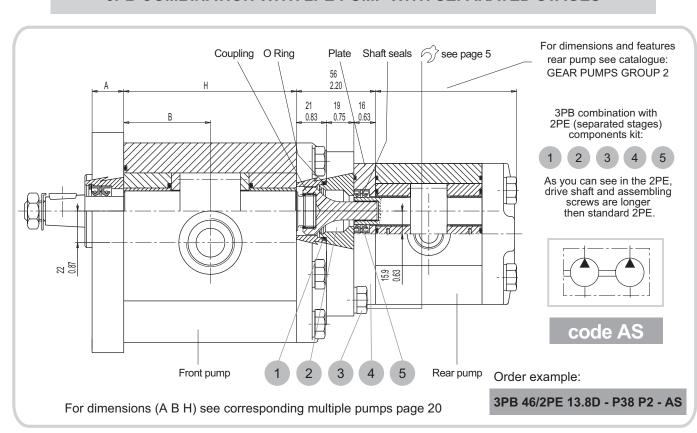
Example to order:

3PB 56/38/21D - B38 S3

3PB COMBINATION WITH 2PE PUMP (COMMUNICATING INLET PORTS)



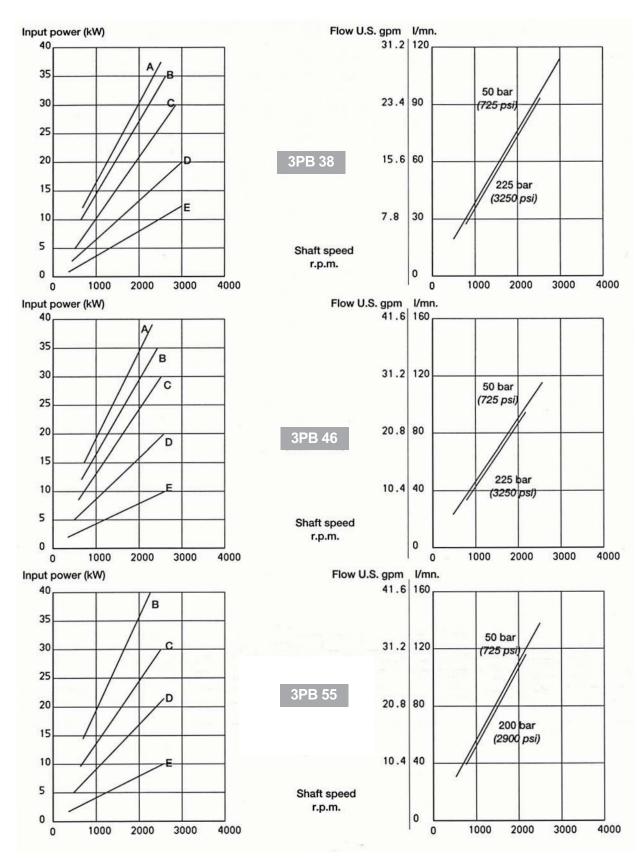
3PB COMBINATION WITH 2PE PUMP WITH SEPARATED STAGES



Performance curves carried out with oil viscosity at 16 cSt and oil temperature at 60°C

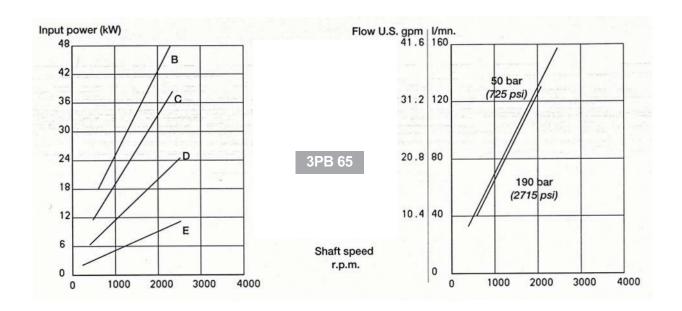
PUMP PERFORMANCE CURVES Flow U.S. gpm 1/mn. 15.6 60 _ Input power (kW) 21 B 50 bar 18 11.7 45 (725 ps 15 3PB 21 12 7.8 30 9 250 bar (3600 psi) 6 3.9 15 3 Shaft speed r.p.m. 0 0 1000 2000 3000 4000 1000 2000 3000 4000 Flow U.S. gpm | I/mn. Input power (kW) 32 20.8 80 28 50 bar 24 15.6 60 (725 psi 20 3PB 27 16 10.4 40 250 bar 12 (3600 psi) 8 5.2 20 Shaft speed r.p.m. 0 2000 3000 4000 1000 2000 3000 4000 0 Input power (kW) Flow U.S. gpm I/mn. 40 26 100 35 50 bar (725 psi B 30 19.5 75 25 3PB 33 20 13 50 250 bar (3600 psi) 15 10 25 6.5 5 Shaft speed r.p.m. 0 0 1000 3000 4000 0 1000 2000 3000 4000

Performance curves carried out with oil viscosity at 16 cSt and oil temperature at 60°C



A=250 bar (3600 psi) B=200 bar (2900 psi) C=150 bar (2175 psi) D=100 bar (1450 psi) E=50 bar (725 psi)

Performance curves carried out with oil viscosity at 16 cSt and oil temperature at 60°C

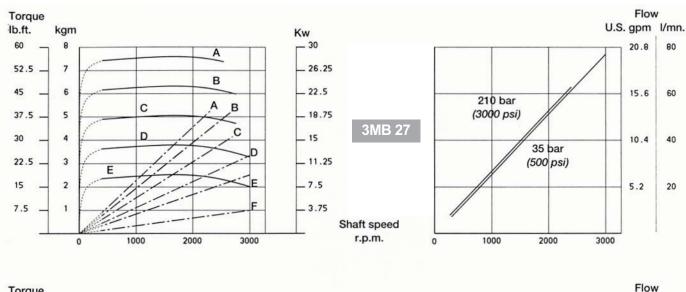


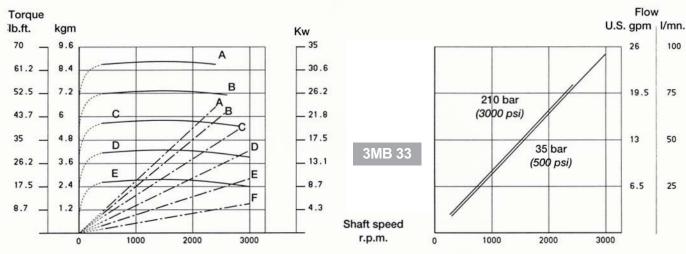
A=210 bar (3000 psi) D=105 bar (1500 psi) B=175 bar (2530 psi) E=70 bar (1000 psi) C=140 bar (2000 psi) F=35 bar (500 psi)

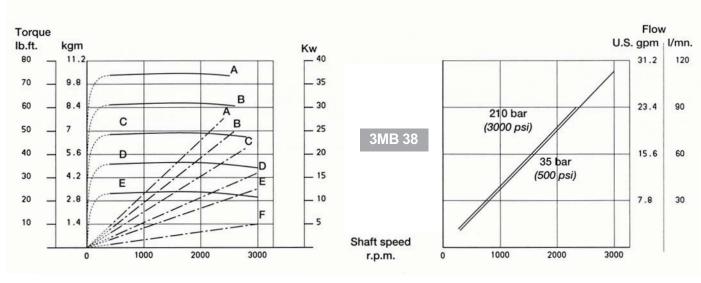
3P/MB Group 3

Performance curves carried out with oil viscosity at 16 cSt and oil temperature at 60°C

MOTOR PERFORMANCE CURVES







Torque
Output

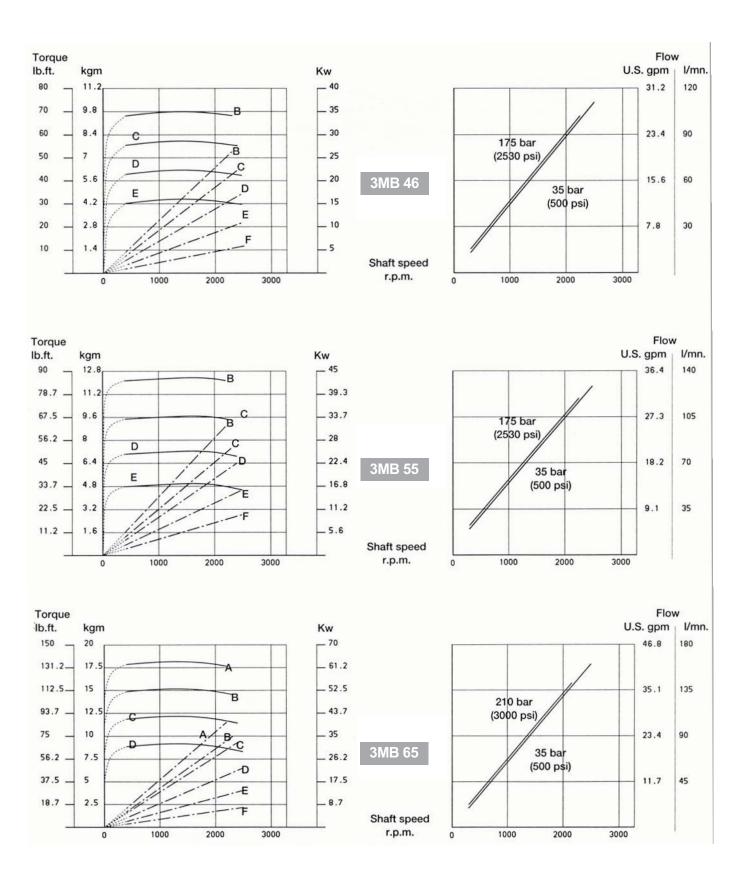
A=210 bar (3000 psi)

B=175 bar (2530 psi)

C=140 bar (2000 psi)

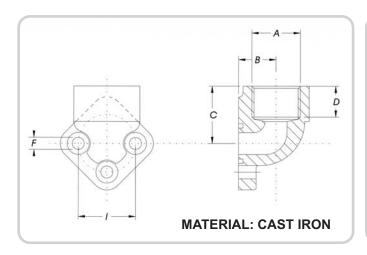
F=35 bar (500 psi)

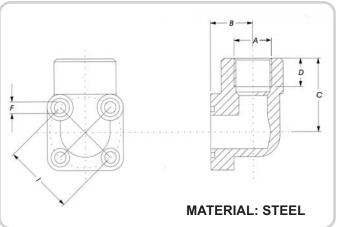
Performance curves carried out with oil viscosity at 16 cSt and oil temperature at 60°C



3P/MB Group 3

PORT CONNECTORS





Type G

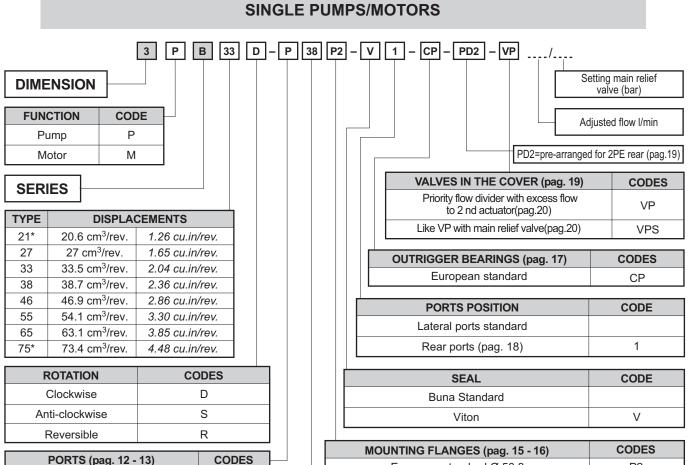
Type GB

AVAILABLE CONNECTORS - DIMENSIONS AND CODE

Туре	С	В	ı	D	ØF	ØA	ORDERING CODE COMPLETE OF SCREW - SPRING WASHER - O RING
2 G	36	21	40	16	8.5	G 3/4	4352 7011 0
3 G	43	27	51	21	10.5	G 1	4352 7013 0
4 G	55	34.5	62	27	12.5	G 1 1/4	4352 7017 0
3 GB/1	49	34	55	19	8.5	G 3/4	4352 7014 1
3 GB/2	49	34	55	19	8.5	G 1	4352 7015 1

How to order/Group 3

GEAR PUMPS AND MOTORS "B" SERIES



DODTO (40 40)	00050	i	MOUNTING FLANGES (pag. 15 - 16)	CODES
" " ,	PORTS (pag. 12 - 13) CODES		European standard Ø 50.8	P2
Flanged ports european standar	d P		European std. interchangeable with 3.5PC Ø 60.3	P3 (pag.11)
Flanged ports german standard	В		German standard Ø 105	В6
GAS threaded ports (BSPP)	G		SAE B 2 bolts Ø 101.6	S3
1 (/			4 bolts for ZF gear box Ø 80	Z1
SAE threaded ports (ODT)	R		*Available for quantity please contact our sales de	nartment

^{*}Available for quantity, please contact our sales departmen

DDD/E OUL ETO (44)	00050
DRIVE SHAFTS (pag. 14)	CODES
Tang drive for electric motors	05
Tapered 1:5	35
Tapered 1:8	38
Tapered 1:8 interchangeable with 3.5PC	48 (pag.11)
SAE B splined 13 T	55
SAE BB splined 15 T	56
DIN 5482 splined	63
DIN 5462 splined	66
SAE B parallel shaft Ø 22.22	87
SAE BB parallel shaft Ø 25.4	88

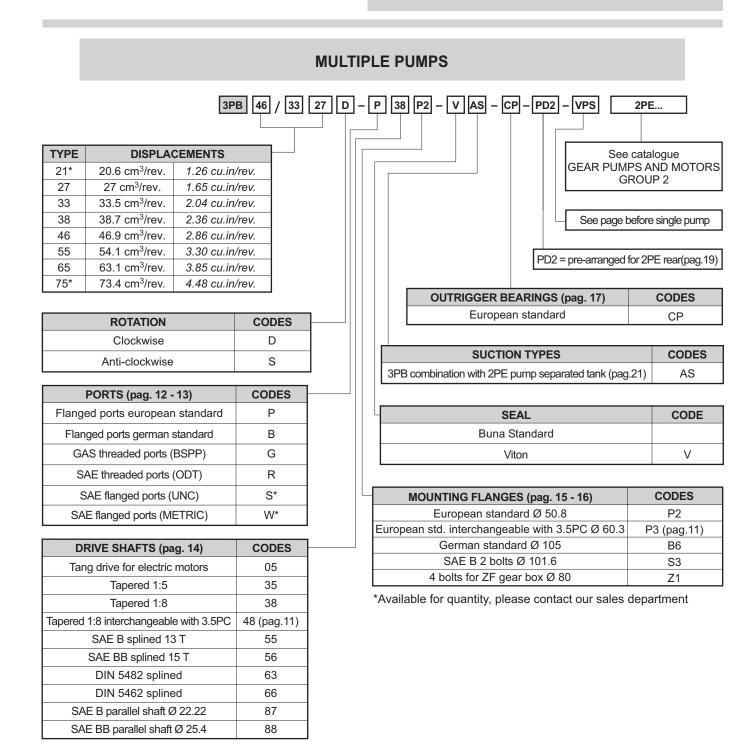
SAE flanged ports (UNC)
SAE flanged ports (METRIC)

Order example:

3PB standard pump: 3PB 33D - P38 P2

3PB pump with priority flow divider and main relief valve: 3pB 33D - P38 P2 - VPS25/175

How to order/Group 3



Order example:

Tandem pump: 3PB 33/27D - P38 P2

3PB pump combination with 2PE with separated stages: 3PB 48/2PE 16S - R56 S3 - AS Tandem pump with priority flow divider in the rear pump: 3PB 33/27D - R55 S3 - VP18

WARRANTY

- We warrant products sold by us to be free from defects in material and workmanship.
- Our sole obligation to buyer under this warranty is the repair or replacement, at our option, of any products or parts thereof which, under normal use and proper maintenance, have proven defective in material or workmanship, this warranty does not cover ordinary wear and tear, abuse, misuse, averloading, alteration.
- No claims under this warranty will be valid unless buyer notifies SALAMI in writing within a reasonable time of the buyer's discovery of such defects, but in no event later than twelve (12) mounths from date of shipment to buyer.
- Our obligation under this warranty shall not include any transportation charges or cost of installation, replacement, field repair, or other charges related to returning products to us; or any liability for directs, indirects or consequential damage or delay. If requested by us, products or parts for which a warranty claim is made are to be returned transportation prepaid to our factory. The risk of loss of any products or parts thereof returned to SALAMI will be on buyer.
- No employee or representative is authorized to change any warranty in any way or grant any other warranty unless such change is made in writing and signed by an officer of SALAMI.



SALAMI spa via Emilia Ovest 1006 41100 Modena Italy telefono 059 387411 telefax 059 387500 export@salami.it - www.salami.it



SALAMI ITALIA srl strada Pelosa 183 S. Pietro in Trigogna VI Italy telefono 0444 240080 telefax 0444 240204 salami.italia@salami.it



SALAMI ESPAÑA Poligono Industrial Armenteres C/Primer de Maig, 18, Nave 4 08980 San Feliu de Llobregat Barcelona telefono 93-6327288 telefax 93-6667826 salami1@terra.es



SALAMI FRANCE 22, rue Louis Saillant 69120 Vaulx en Velin Lyon telefono 04 78 80 99 41 telefax 04 78 80 36 69 e.pasian@wanadoo.fr



149 S0. Chenango St. Ext., GREEN, NY 13778 Tel.: 001-607-6565702 Fax.:001-607-6565704 info@salamihydraulics.com