2.5PB

Aluminium gear pumps

Technical Catalogue



GEAR PUMPS

SALAMI gear pumps are available with displacements from 1.4 cm³/rev to 99 cm³/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.

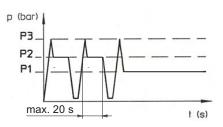
•Also available Bidirectional rotation.

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.

DEFINITION OF PRESSURES

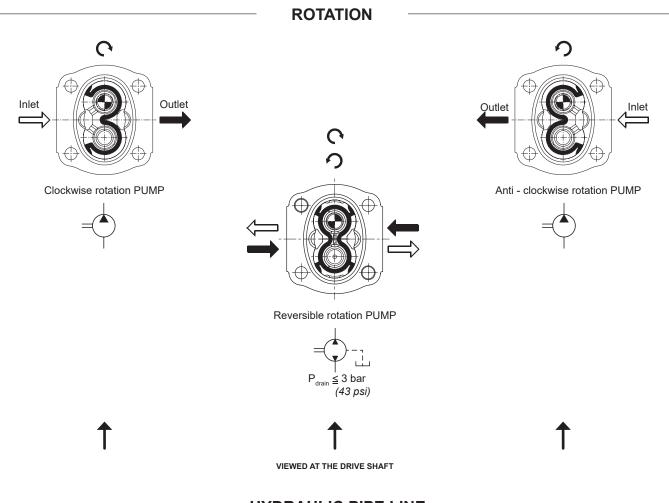


P3 = Peak pressure

- 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.



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.



E0.100.0219.02.001M02

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

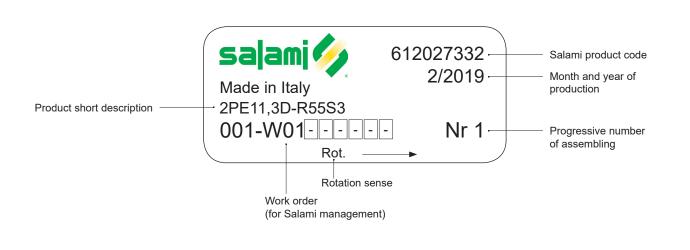
FIRE RESISTENT FLUID

Туре	Description	Max pressure	Max speed (rpm)	Temperature
HFB	Oil emulsion with 40% water	130 bar/ <i>1880 psi</i>	2500	3°C+65°C
HFC	Water glycol	190 hor/2600 noi	1500	-20°C+65°C
HFD	Phosphate esters	180 bar/ <i>2600 psi</i>	1750	-10°C+80°C

COMMON FORMULAS FOR PUMPS

		LEGENDA
C = Input torque	$= \frac{q \cdot \Delta p}{62.8 \cdot \eta_m} (Nm)$	Δp = Working pressure (bar)
	a n An 10 ⁻³	q = Displacement (cm ³ /rev)
P = Input power	$= \frac{q \cdot n \cdot \Delta p \ 10^{-3}}{600 \ \eta_{m}} (kW)$	n = Speed (min ⁻¹)
Q = Outlet flow	$= \frac{q \cdot n \cdot \eta_v}{1000} $ (l/min)	η_{m} = Mechanical eff. (0.92)
	1000	η_V = Volumetric eff. (0.95)

- IDENTIFICATION LABEL



WORKING CONDITIONS

	Displa	cement	Continuous pressure P ^{1**}		Intermittent pressure P ²		Peak pressure P³		Max. speed	Min. speed
GROUP 1.5 - E SERIES	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	bar	psi	mi	n-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	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	bar	psi	mi	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	3190	240	3480	260	3750	3000	400	
2PE - 22.5	22.9	1.37	200	2900	220	3190	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	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	bar	psi	mi	n-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	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".

WORKING CONDITIONS

	Displacement		Continuous pressure P ^{1**}		Intermittent pressure P ²		Peak pressure P ³		Max. speed	Min. speed
GROUP 3 - E SERIES	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	bar	psi	mi	n ⁻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	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	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	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.

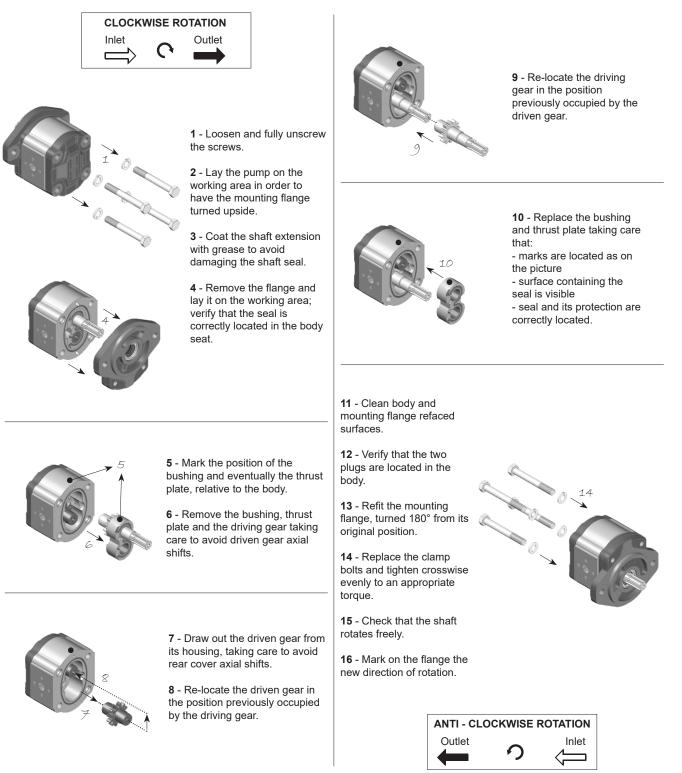
**For working conditions, using exclusively pressure P¹, the value of max. speed must be reduced of 10%.

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.



GEAR PUMPS "B" SERIES Aluminium Body

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Final revised edition - February 2019 The data in this catalogue refers to the standard product. The policy of Salami S.p.A. consists of a continuous improvement of its products. It reserves the right to change the specifications of the different products whenever necessary and without giving prior information. If any doubts, please contact our sales department.



SHAFTS AND FLANGES COMBINATION

2.5PB	CODE P2 European standard	CODE S2 SAE A 2 Bolts	CODE S3 SAE B 2 Bolts				
CODE 38 - Tapered 1:8	38P2						
CODE 53 - SAE A splined 10T		53S2					
CODE 54 - SAE A splined		54S2					
CODE 55 - SAE B splined 13T		55S2	55\$3				
CODE 87 - SAE B parallel		87S2	87S3				

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

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



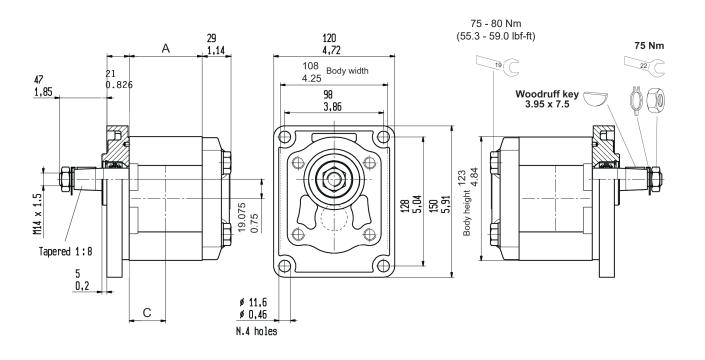
GEAR PUMPS

ASSEMBLING DIMENSIONS AND

Displacements up to 44.2 cm³/rev Pressure up to 300 bar

	WORKING CONDITIONS													
Тур	e		5.5*	8.3*	11.5*	13.8*	16	19	22	25	28	32	38	44
Displacement		n³/rev n./rev	5.97 0.36	8.29 <i>0.50</i>	11.76 <i>0.72</i>	14.07 <i>0</i> .86	16 0.97	19.3 1.17	22.2 1.35	25.2 1.53	27.6 1.68	32.4 1.97	38.1 2.32	44.2 2.69
Dimension A		mm <i>in</i>	52.2 2.05	54.6 2.15	58.2 2.29	60.6 2.38	63 2.45	66.5 2.59	70 2.73	72.5 2.82	85 3.31	90.5 3.52	96.5 3.76	103 <i>4.06</i>
Dimension C		mm <i>in</i>	26.1 1.02	27.3 1.07	29.1 1.14	30.3 1.19	31.5 1.20	33.25 1.29	35 1.36	36.25 1.41	42.5 1.65	45.25 1.76	48.25 1.88	51.5 2.03
Continuous pressure	P ¹	bar <i>psi</i>	250 3625	250 3625	250 3625	250 3625	250 3625	250 3625	250 3625	250 3625	250 3625	230 3335	200 2900	170 2465
Intermittent pressure	P ²	bar <i>psi</i>	280 4060	280 4060	280 4060	280 4060	280 4060	280 4060	280 4060	280 4060	280 4060	250 3625	220 3190	190 2755
Peak pressure	P ³	bar <i>psi</i>	300 4350	300 4350	300 4350	300 4350	300 4350	300 4350	300 4350	300 4350	300 4350	260 3750	240 3480	210 3040
Max speed		rpm	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	2750	2500
Min speed		rpm	600	600	600	600	600	600	500	500	500	500	400	400
Weight		kg Ibs	3.40 7.48	3.60 7.92	3.80 8.36	4.10 9.02	3.40 7.48	3.60 7.92	3.80 8.36	4.10 9.02	4.50 9.92	4.75 10.47	5.00 11.00	5.30 11.66

*Available only as rear pump, displacements 11.5-13.8 are available as single pump only with drive shaft "55".



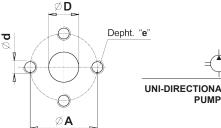
е

13 (0.51")

18 *(0.70")*

OUTLET

FLANGED AND THREADED PORTS



code P

Flanged ports

european standard

<u>A</u>

Depht. "e"

PUMP

۱L		ØD	ØA	d	е	ØD	ØA	d
PS	From 5.5 to 8.3	13 (0.51")	30 (1.18")	M6	13	13 (0 51")	30 (1.18")	M6
	From 11.5 to 19	20 (0.79")	40 (1.57")	M8	(0.51")	10 (0.07)	00 (1.10)	WO
	From 22 to 44	25 (0.97")	51 (2.01")	M10	16 (0.62")	18 (0.70")	40 (1.56")	M8

INLET



BI-DIRECTIONAL PUMPS Special version available on request.

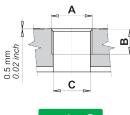
BI-DIRECTIONAL PUMPS Special version available on request.

	\odot
a	
d	\oplus

_											
$\overline{\checkmark}$	TYPE			INLET					OUTLE	Г	
UNI-DIRECTIONAL		ØD	В	Α	d	е	ØD	В	Α	d	е
PUMPS	From 16 to 44	25 (0.97")	52.4 (2.06")	26.2 (1.02")	3/8 16 unc	16 (0.62")	18 (0.70")	47.6 (1.87")	22.2 (0.86")	3/8 16 unc	16 (0.62")



Flanged ports SAE J518 AMERICAN STANDARD THREAD





Threaded po GAS (BSP	
Y A	0.02 inch

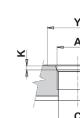
_							
\sim	TYPE		INLET			OUTLET	
UNI-DIRECTIONAL PUMPS		Α	В	øc	А	В	øc
FUMFS	From 5.5 to 22	G3/4	16 (0.62")	20 (0.78")	G1/2	15 (0.5	
	From 25 to 44	G1	19 <i>(0.74"</i>)	23 (0.91")	G3/4	16 (0.62")	20 (0.78")



BI-DIRECTIONAL PUMPS Special version available on request.

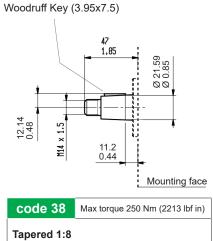
_											
\sim	TYPE		INLET				OUTLET				
UNI-DIRECTIONAL PUMPS		А	в	ØC	Y	к	A	в	øc	Y	к
	From 5.5 to 22	1-1/16-12 UN (SAE 12)	19	20 (0.78")	41 (1.61")	3.3	7/8-14 UNF (SAE 10)	14 (0.54")	15 (0.59")	34 (1.32")	2.5 (0.10")
	From 25 to 44	1-5/16-12 UN (SAE 16)	(0.74")	23 (0.91")	49 (1.93")	(0.12")	1-1/16-12 UN (SAE 12)	19 (0.74")	20 (0.78")	41 (1.61")	3.3 (0.12")

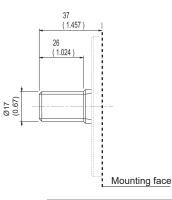
BI-DIRECTIONAL PUMPS Special version available on request.

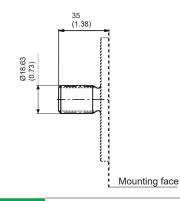




DRIVE SHAFTS



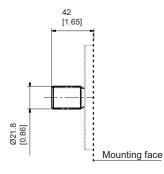




de 38	Max torque 250 Nm (2213 lbf in)	C
ered 1:8		SA 1a

code 53	Max torque 125 Nm (1106 lbf in)
SAE A Splin 1a 1976	ed 10T-16/32DP Ansi B92

code 54 Max torque 150 Nm (1327 lbf in) SAE A Splined 11T-16/32DP Ansi B92 1a 1976



code 55	Max torque 320 Nm (2832 lbf in)
SAE B Splin 1a 1976	ed 13T-16/32DP Ansi B92

42 (1.65)

===>

Mounting face

Max torque 220 Nm (1950 lbf in)

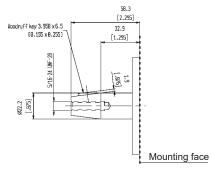
Woodruff Key (6.35x6.35x17.7)

1/4-28 UNF

Ø22.22 (0.87)

code 87

SAE B Parallel



code 37	Max torque 200 Nm (1770 lbf in)
Tapered 1:4	

Ø

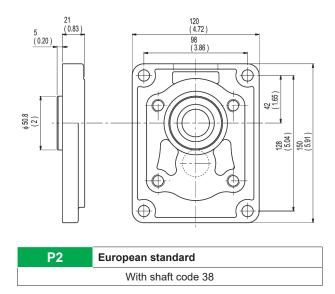
INTERNAL SPLINED

code 64

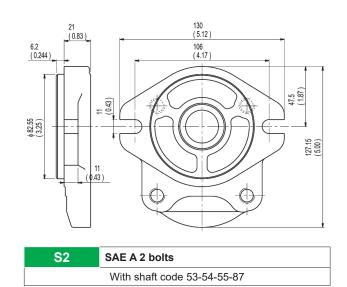
Max torque 115 Nm (1017.8 lbt in)

DIN 5480 internal splined (only for rear pumps)

MOUNTING FLANGES



With shaft code 55-87



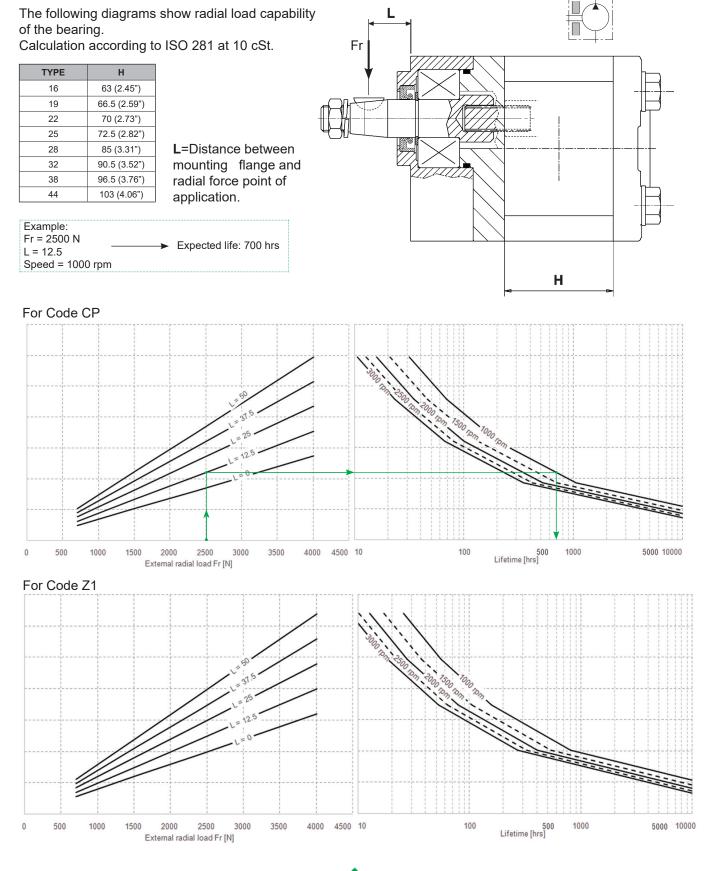
9.5 (0.83) (0.83) (0.83)		60 [2.362]	Ø [11 Ø [0.433] Ø [2.835] Ø [2.795] Ø [2.795] Ø [3.78]
S 3	SAE B 2 bolts	T1 3 BOLT UNI	8953

=

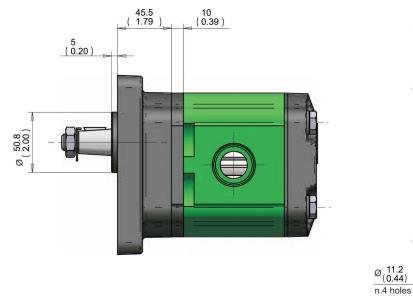
71

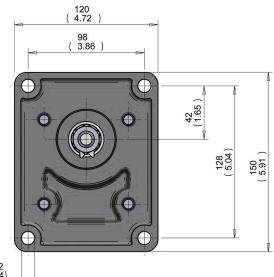
With shaft code 73

OUTRIGGER BEARING

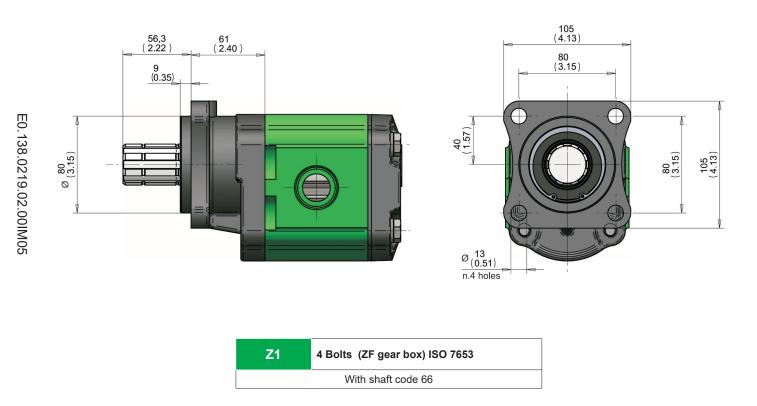


MOUNTING FLANGES WITH BEARING

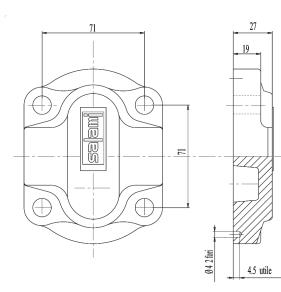


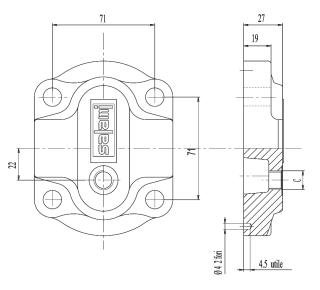


CP European standard mounting flange
With shaft code 38 (see page 70)



REAR COVERS

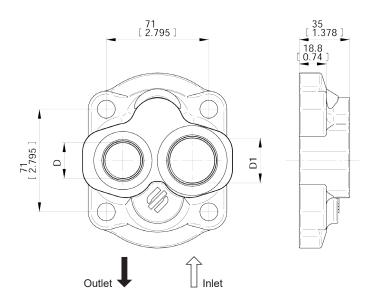




Standard rear cover for unidirectional pumps

Standard rear cover for reversible pumps, with external drain C.

С						
9/16-18 UNF-2B (SAE6)						
G3/8						



UNIDIRECTIONAL PUMPS

|--|

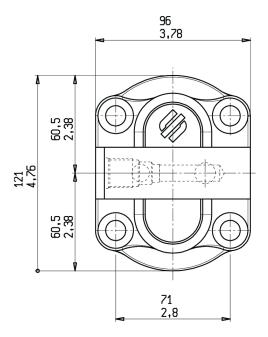
D	D1
1-1/16-12 UN-2B (SAE12)	1-5/16-12 UN-2B (SAE16)
G3/4	G1

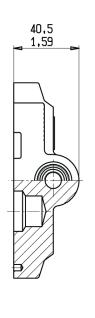
E0.138.0219.02.001M05

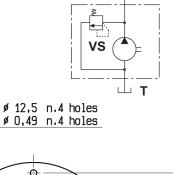
On request outlet port only.

code VS

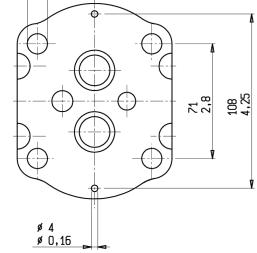
With main relief valve with internal unloading line. Rear cover with fixed setting main relief valve.





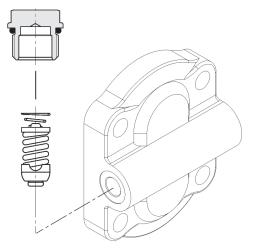


Ρ



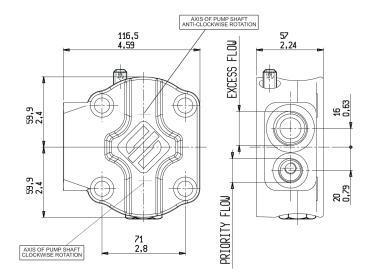
Available values of fixed setting

bar	psi	bar	psi
25	362	160	2320
32	464	175	2538
40	580	190	2756
50	725	210	3046
63	914	230	3336
80	1160	250	3626
100	1450	280	4061
125	1813	315	4569
140	2030	350	5076





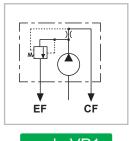
PRESSURE COMPENSATED CONTROL AND PRIORITY FLOW VALVE



VP1 - VPS1 SIDE PORTS

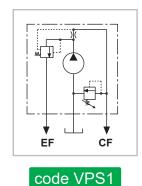
Priority flow ports	Excess flow ports
G 3/8	G 3/4
(SAE8) 3/4 - 16 UNF - 2B	(SAE12) 1-1/16 - 12 UNF - 2B

CALIBRATED ORIFICE Φ d (mm/inch)	FLOW RATE (I/min - gpm) ± 10%
1.5 /(0.06")	2.5 - (0.66)
2 /(0.08")	4 - (1.06)
2.4 /(0.09")	6 - (1.59)
2.8 /(0.11")	8 - (2.11)
3.1 /(0.12")	10 - (2.64)
3.5 /(0.14")	12.5 <i>- (</i> 3.30)
4 /(0.16")	16 - (4.23)
4.4 /(0.17")	20 - (5.28)
4.9 /(0.19")	25 - (6.61)

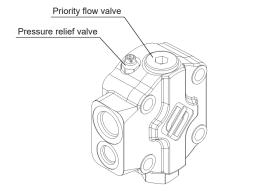




Priority flow valve, excess flow to second actuator.



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

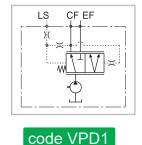


PRIORITY FLOW VALVE (VP - VPS)

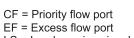
3 Ways flow control priority valve. It ensures a constant flow to CF port, given by the screwed control orifice (see table) and regardless of the pump speed; the excess flow is available for other functions at the EF port.

The two lines CF and EF can be loaded simultaneously and the max pressure of the priority line can be limited by a relief valve connected to the suction port.

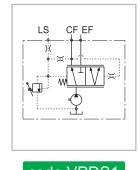
LOAD SENSING PRIORITY VALVE



Load sensing priority valve with dynamic signal without main relief valve.

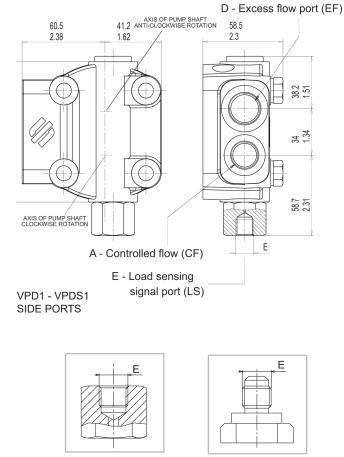


LS = Load sensing signal port



code VPDS1

Load sensing priority valve with dinamic signal with main relief valve.



Female fitting

Male fitting

Minimum load sensing signal (LS) = 4 bar (28 psi)

А	D	E
G 3/8	G 3/4	G 1/4
(SAE8) 3/4 - 16 UNF - 2B	(SAE12) 1-1/16 - 12 UN - 2B	(SAE4) 7/16 - 20 UNF - 2B

LOAD SENSING PRIORITY VALVES (VDP1-VDPS1)

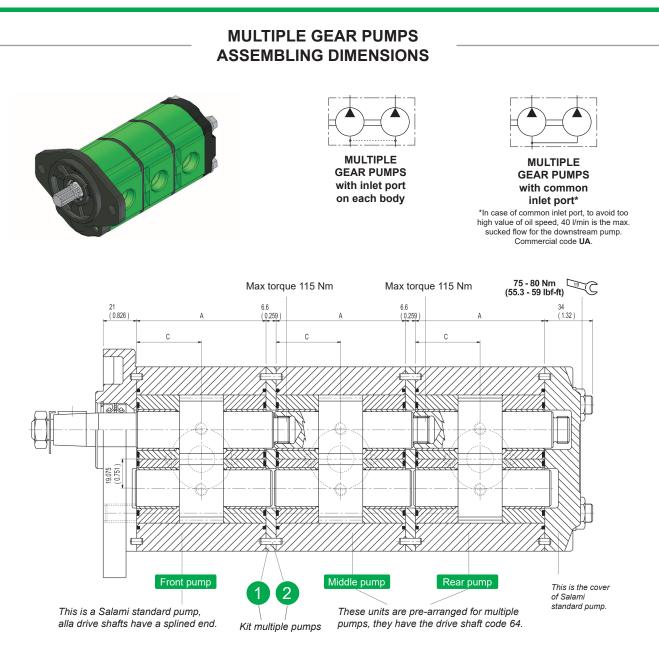
The load sensing priority valve is a control valve able to divide the flow generated by the pump, coming from the port P, in two different flows named Qcf and Qef. The Qcf flow follows the user request, the flow Qefchanges according to the equation:

Qin = Qcf + Qef

This valve is used in hydraulic steering systems, theCF port is connected to the inlet of power steering unit while the other functions (lifter etc...) are connected to the EF port. The load sensing LS signal of the valve is connected to the LS of powersteering unit.

The regulated flow Qcf depends on the steering speed, the remaining flow Qef is available for the other funcions and complies with the equation

Qef = Qin – Qcf

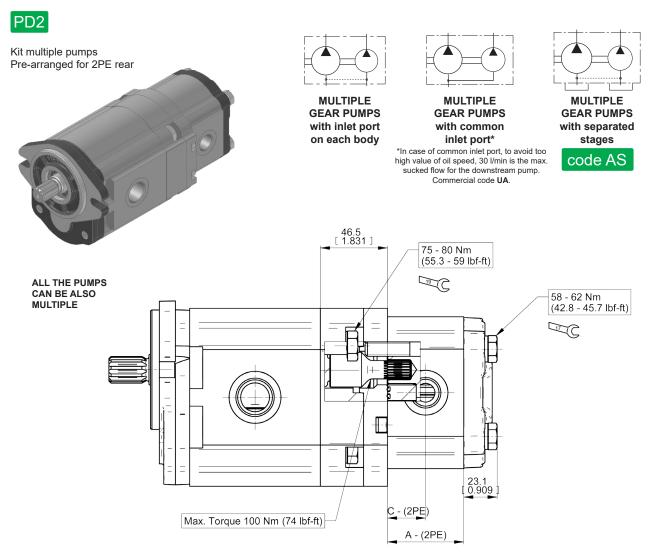


The 2.5PB pumps can be easily transformed into front pump in the multiple units. All drive shafts are pre-arranged and have a splined end according DIN 5482. The first unit must always be the same size or bigger than following units. The features and performances are the same of the corresponding single 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. Finally to assembly the multiple pump you need to order bolts of the right length.

Туре		5.5	8.3	11.5	13.8	16	19	22	25	28	32	38	44
Dimension A	mm	52.2	54.6	58.2	60.6	63	66.5	70	72.5	85	90.5	96.5	103
	<i>in</i>	2.05	2.15	2.29	2.38	2.48	2.62	2.76	2.85	3.35	3.56	3.80	<i>4.06</i>
Dimension C	mm	26.1	27.3	29.1	30.3	31.5	33.25	35	36.25	42.5	45.25	48.25	51.5
	<i>in</i>	1.03	1.07	<i>1.14</i>	1.19	<i>1.22</i>	1.29	1.36	1.41	1.65	1.76	<i>1.</i> 88	2.03

GEAR PUMPS "B" SERIES Aluminium Body

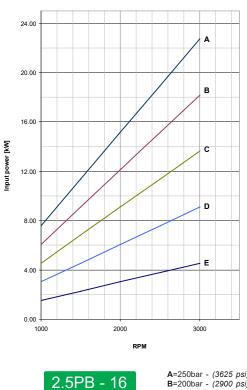
2.5PB COMBINATION WITH PUMP 2PE

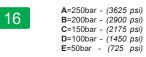


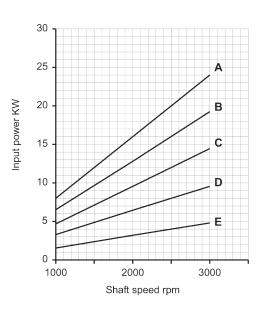
2PE-Type		3.2*	3.9*	4.5	6.5	8.3	10.5	11.3	12.5	13.8	16	19	22.5	26
Dimension A - 2PE	mm <i>in</i>		47.1 1.83		49.95 1.97	52.8 2.07	56.3 2.22	59 2).7 35	63.5 2.5	67.5 2.65	75.6 2.97	81 3.19	86.8 3.42
Dimension C - 2PE	mm <i>in</i>		23.55 <i>0.</i> 93		25 0.98	26.4 1.04	28.15 <i>1.11</i>	29. 1.	.75 17	31.75 <i>1.25</i>	33.75 1.33	37.80 1.49	40.5 1.59	43.4 1.71

*Available only as rear pump

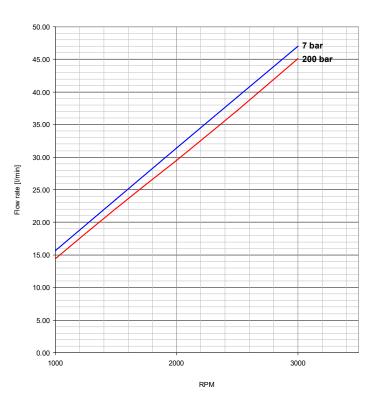
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C

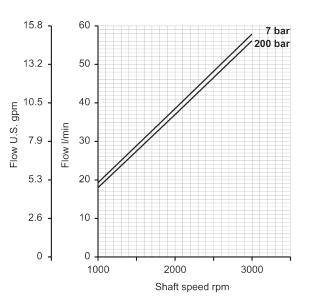




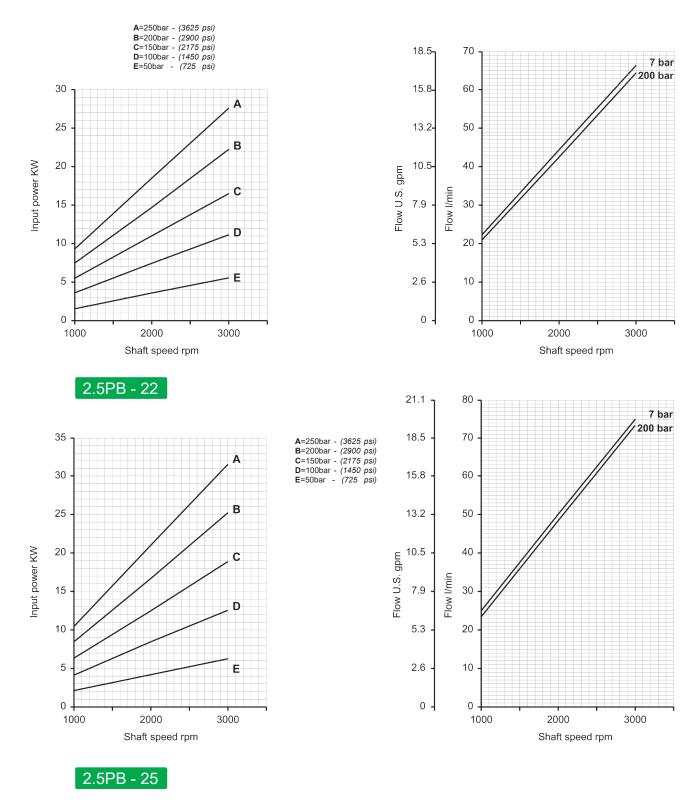


2.5PB - 19

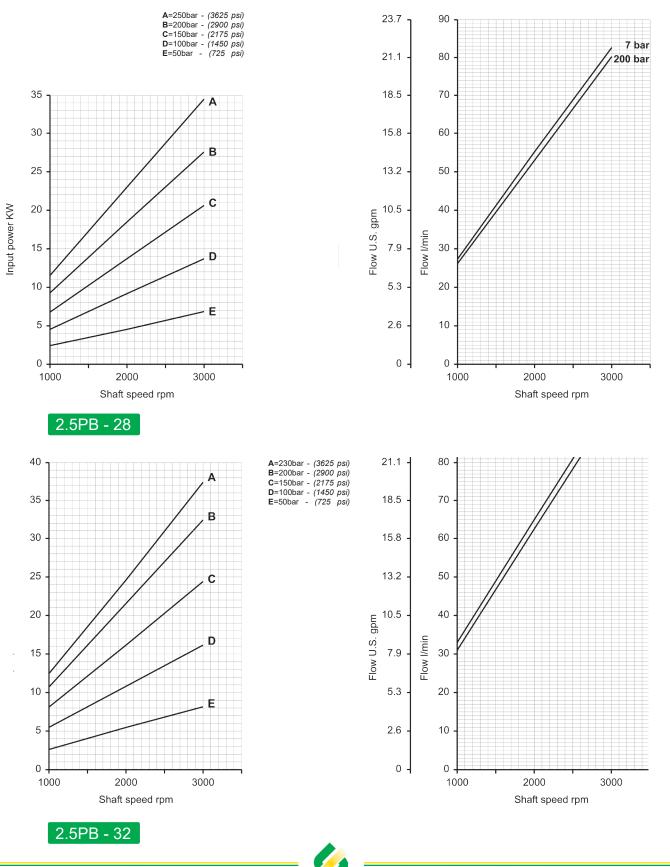




Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C

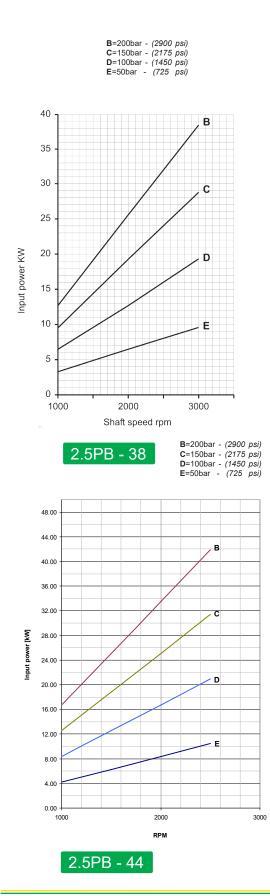


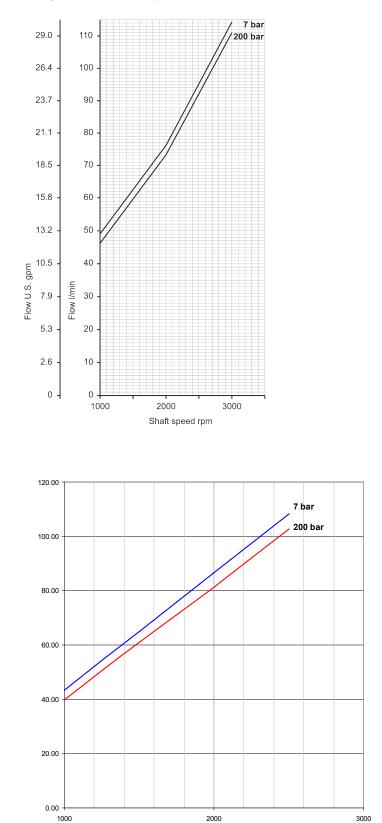
Performance curves carried out with oil viscosity at 21 cSt and oil temperature at 50°C



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





RPM

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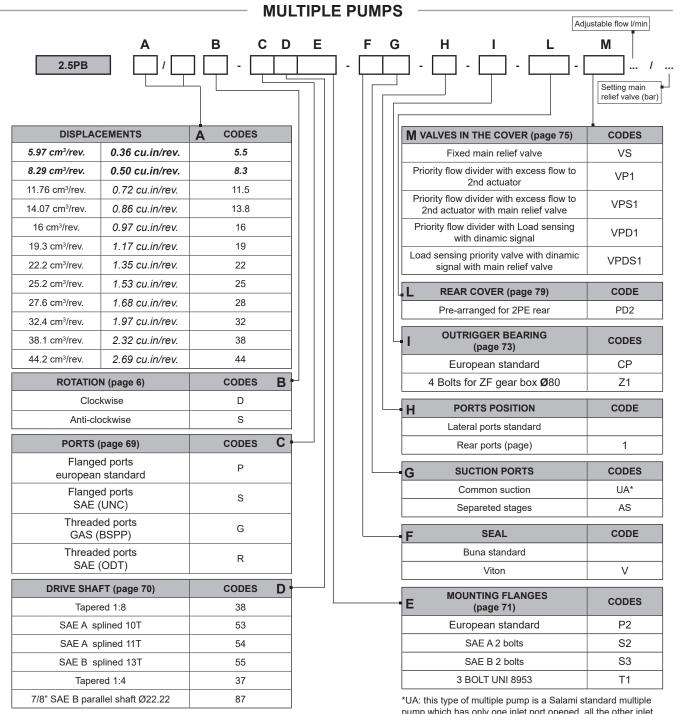
			SI	NGLE	PUI	MPS
			•			Adjustable flow I/min
		B C D	E	: 	F	G H I L
2.5PB	. ∟ ∟	┯┛╹┖┯┻┯	L_	<u> </u>		
						Setting main relief valve (bar)
DISPLAC	EMENTS	A CODES				L VALVES IN THE COVER (page 75) CODES
11.76 cm ³ /rev.	0.72 cu.in/rev.	11.5				Fixed main relief valve VS
14.07 cm ³ /rev.	0.86 cu.in/rev.	13.8				Priority flow divider with excess flow to 2nd actuator VP1
16 cm ³ /rev.	0.97 cu.in/rev.	16				Priority flow divider with excess flow to
19.3 cm ³ /rev.	1.17 cu.in/rev.	19				2nd actuator with main relief valve VPS1
22.2 cm ³ /rev.	1.35 cu.in/rev.	22				Priority flow divider with Load sensing with dinamic signal VPD1
25.2 cm ³ /rev.	1.53 cu.in/rev.	25				Load sensing priority valve with dinamic
27.6 cm ³ /rev.	1.68 cu.in/rev.	28				signal with main relief valve VPDS1
32.4 cm ³ /rev.	1.97 cu.in/rev.	32				REAR COVER (page 79) CODE
38.1 cm ³ /rev.	2.32 cu.in/rev.	38				Pre-arranged for 2PE rear PD2
44.2 cm ³ /rev.	2.69 cu.in/rev.	44				
ROTATIO	N (page 6)	CODES	В			H OUTRIGGER BEARING (page 73) CODES
Cloc	kwise	D				European standard CP
Anti-clo	ockwise	S				4 Bolts for ZF gear box Ø80 Z1
Reve	rsible	R				G PORTS POSITION CODE
PORTS (page 69)	CODES	C			Lateral ports standard
0	d ports standard	Р				Rear ports (page) 1
	d ports					F SEAL CODE
	(UNC)	S				Buna standard
	ed ports BSPP)	G				Viton V
Thread	ed ports (ODT)	R				E MOUNTING FLANGES CODES
	FT (page 70)	CODES	D -			European standard P2
	ed 1:8	38				SAE A 2 bolts S2
· · · ·	blined 10T	53				SAE B 2 bolts S3
	blined 11T	54				3 BOLT UNI 8953 T1
	plined 13T	55				
DIN 5480 int (only for re	ernal splined ear pumps- ige 78)	64				
Taper	ed 1:4	37				
7/8" SAE B para	llel shaft Ø22.22	87				

Order example: 2.5PB 19D, ports European standard (P), drive shaft (38), mounting flange (P2) with valve in the cover (VS 190 bar). 2.5PB19D-P38P2-VS190

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GEAR PUMPS "B" SERIES Aluminium Body

2.5PB-How to order



Order example: 2.5PB 32/28D, ports SAE (R), drive shaft (55), mounting flange (S3). 2.5PB32/28D-R55S3 pump which has only one inlet port opened, all the other inlet port are closed. In case of common suction, the code 1 - 2 or 3, correspond to

the body where inlet is located.

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Ph. +39 059 387 411 - sales@salami.it



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SALAMI S.P.A.

Via Emilia Ovest 1006 41121 Modena (Italy) Ph. +39 059 387 411 F. +39 059 387 639 sales@salami.it

SALAMI ESPAÑA

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

SALAMI FRANCE

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

SALAMI HYDRAULICS N.A INC

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