

...we know how!



Gear pumps 2400 1.01.04



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Operating parameters

Maximum outlet pressure:	See following pages
Inlet pressure:	See below*
Speed:	See following pages
Fluid temperature:	Minimum at start up -40°C
	Maximum continuous +80°C
	Maximum intermittent +100°C
Fluid viscosity:	Minimum at start up 2000 cSt
	Maximum continuous 250 cSt
	Minimum continuous 10 cSt
	Optimum 15-25 cSt
Contamination class:	ISO 4406 21/16/13
	NAS 1638 9
Fluid speed:	Maximum (inlet) 2.5 m/sec
	Optimum (inlet) 1.5 m/sec
Fluids:	Hydraulic mineral oils HL e HLP (DIN 51524)
Rotation:	Clockwise (C), Counter-clockwise (A) and reversible (D),
	when available, view from shaft end

For characteristic diagrams (pressure - flow - efficiency - maximum power) and driving shaft loads, please consult the general technical data sheet available on our website.

* INLET CONDITIONS:

It's extremely important that pumps are installed in a wat they can always be filled with fluid in any working conditions.

Pump inlet ports are designed to allow the complete filling, however is recommended to observe the following advices in order to optimize pump performances and lifecycle:

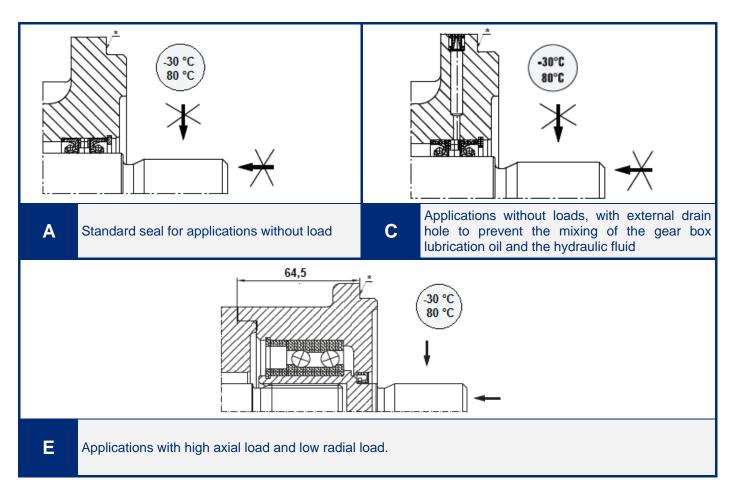
- In suction lines, use large diameter pipes and fittings avoiding bending and long sections to minimize pressure losses; ensure that fluid speed doesn't exceed the values shown above.
- Never run pumps dry; ensure that all the valves on the inlet ports are opened.
- If needed, fill the inlet line with fluid and ensure that there are no bubbles.
- Special care is needed for fluids with high speed or high viscosity. As general rule, pressure at the inlet line should not be less than 0,8 bar absolute with viscosity of 23 cSt



Technical features

Model	2411	2413	2415	2416	2419
Displacement (cc/rev)	87,3	103,6	119,8	132,7	155,4
Working pressure (MPa)	21				
Maximum speed (RPM)					

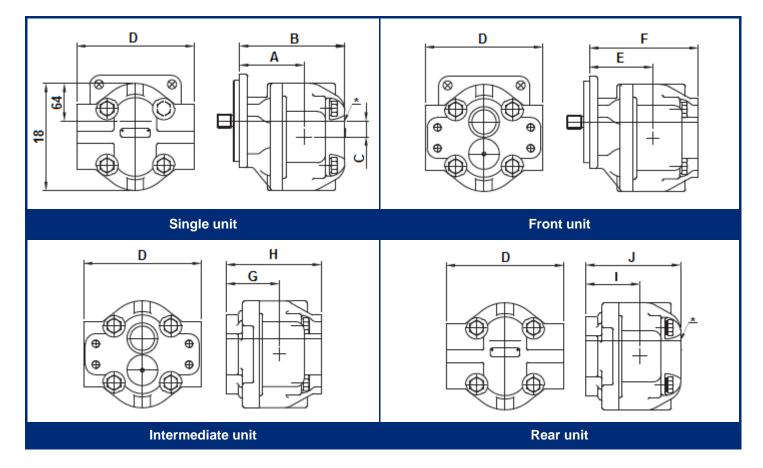
Seal configurations





GEAR PUMPS SERIES 2400

Overall dimensions



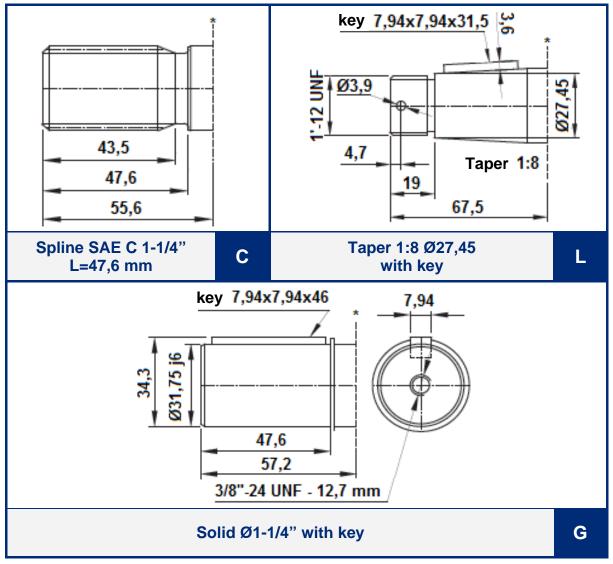
		Sin	gle ι	ınit	Front			Intermediate			Rear			
Model	Α	В	C *	Weight [kg]	Е	F	Weight [kg]	G	н	Weight [kg]	I	J	Weight [kg]	D
2411	111	178	30,2	29	115	192	30	99	176	29	95	162	28	193,6
2413	111	178	30,2	29	115	197	30	99	181	29	95	162	28	193,6
2415	118	188	30,2	30	115	203	30	99	187	30	102	172	29	193,6
2416	118	188	30,2	30	121	207	31	105	191	30	102	172	29	193,6
2419	121	203	30,2	30	121	207	31	105	191	30	105	187	30	193,6

* drain port (for motors)





Shafts



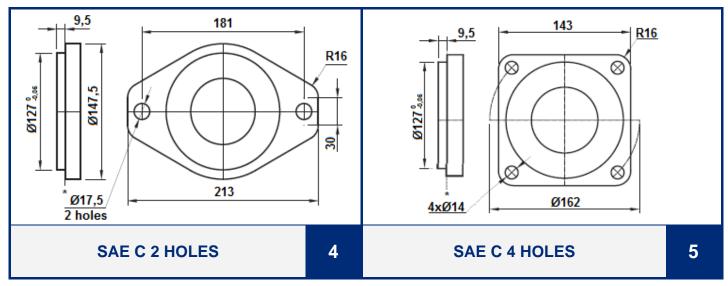
* Standard mounting flange surface.

OPTION	SIZE	SIDE FIT	DIAMETRAL PITCH	ANGLE OF PRESSURE	NUMBER OF TEETH	EXTERNAL DIAMETER
С	SAE C 1-1/4"	Flat root	12/24	30°	14	31,20/31,12



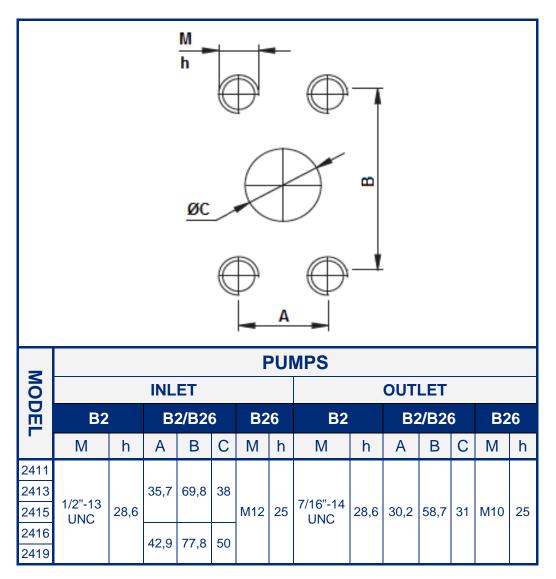
GEAR PUMPS SERIES 2400

Mounting flanges



* Standard mounting flange surface.

Ports





Model coding

Ρ	C	2	411	С	4	B2	26 0	
		<u>, 7</u>						Rotation - A = Counter-clockwise - C = Clockwise Ports (page 7): - B26 = Pump Mounting flanges (page 7):
								 4 = "SAE C" 2 holes 5 = "SAE C" 4 holes Shaft (page 6): C = Spline SAE C 1-1/4"L=47,6 mm L = Taper 1:8 Ø27,45 with key G = Solid Ø1-1/4" with key
								 Models (page 5): 2411 - 2413 - 2415 - 2416 - 2419 Seals (page 4): - A = Standard seal for applications without load - C = Applications without loads, with external drain hole to prevent the mixing of the gear box lubrication oil and the hydraulic fluid - E = Applications with high axial load and low radial load.
								Series: Pump - P = Pump

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