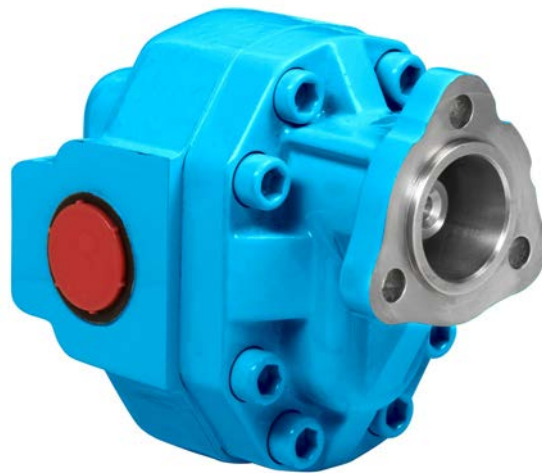


# Fluidea

...we know how!



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## Operating parameters

<b>Maximum outlet pressure:</b>	See following pages
<b>Inlet pressure:</b>	See below*
<b>Speed:</b>	See following pages
<b>Fluid temperature:</b>	Minimum at start up -40°C Maximum continuous +80°C Maximum intermittent +100°C
<b>Fluid viscosity:</b>	Minimum at start up 2000 cSt Maximum continuous 250 cSt Minimum continuous 10 cSt Optimum 15-25 cSt
<b>Contamination class:</b>	ISO 4406 21/16/13 NAS 1638 9
<b>Fluid speed:</b>	Maximum (inlet) 2.5 m/sec Optimum (inlet) 1.5 m/sec
<b>Fluids:</b>	Hydraulic mineral oils HL e HLP (DIN 51524)
<b>Rotation:</b>	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 way they can always be filled with fluid in any working conditions.

Pump inlet ports are designed to allow the complete filling, however it 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

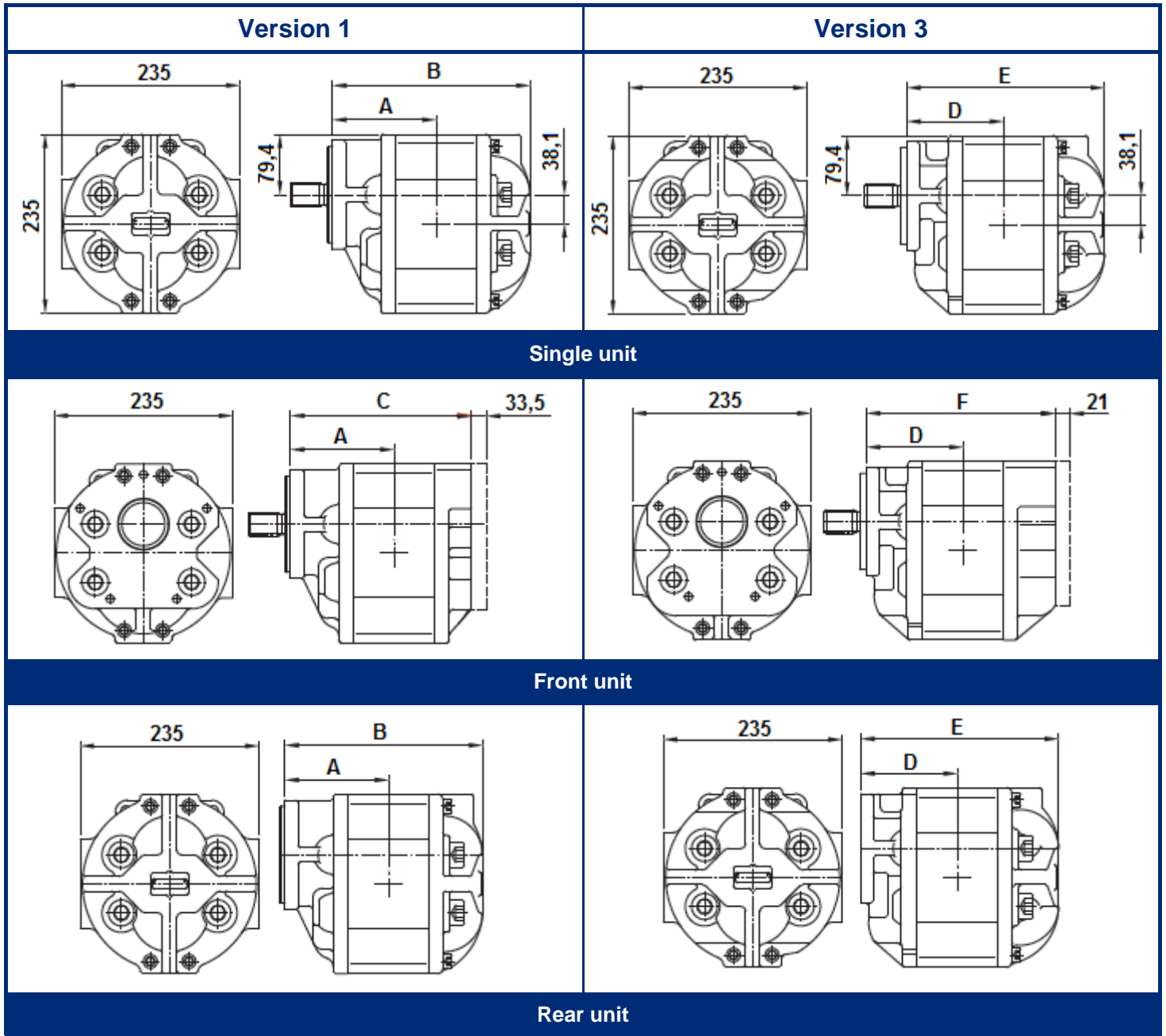
Version 1	Model	
	3115	3120
Displacement (cc/rev)	131,6	175,3
Working pressure (MPa)	17,5 pumps 15,5 motors	
Maximum speed (RPM)	2700 pompe 3000 motori	
Maximum torque Motor (Nm)	324	389

Version 3	Model			
	3120	3125	3130	3135
Displacement (cc/rev)	175,3	217,9	263,8	306,4
Working pressure (MPa)	17,5 pumps 15,5 motors			
Maximum speed (RPM)	2700 pompe 3000 motori			
Maximum torque Motor (Nm)	389	480	540	560

### Seal configurations

<b>Versions 1 &amp; 3</b>	<b>Version 1</b>	<b>Version 3</b>
<b>A</b> Standard seal for applications without load	<b>C</b> Applications without loads, with external drain hole to prevent the mixing of the gear box lubrication oil and the hydraulic fluid	

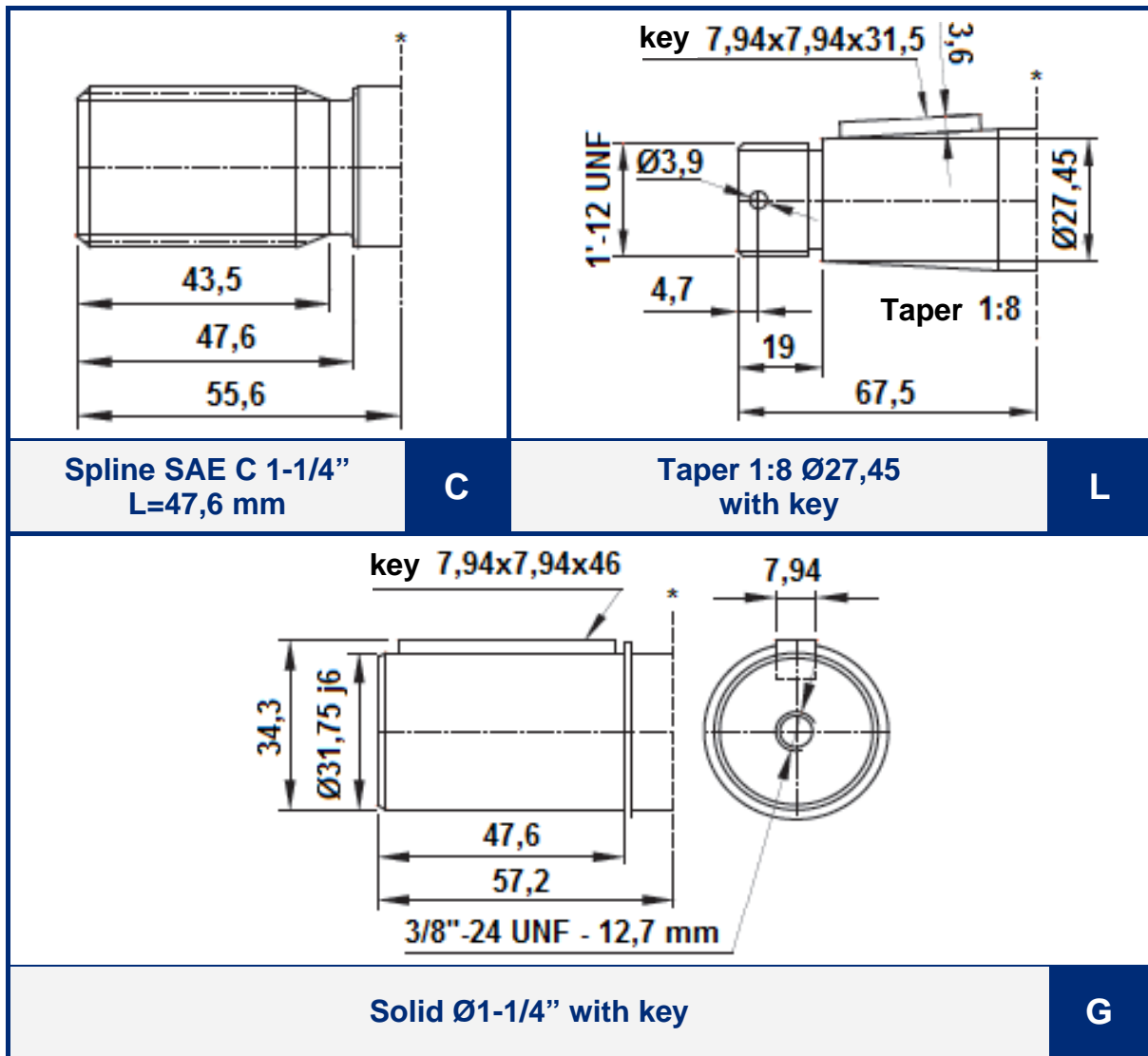
### Overall dimensions



Version 1	A	B	C	Weight [kg]
3115	111	210	188	41,8
3120	118	222	200	45,0

Version 3	D	E	F	Weight [kg]
3120	117,5	241	229	54,5
3125	124	254	242	58,1
3130	130,5	267	255	61,7
3135	136,5	279	267	64,3

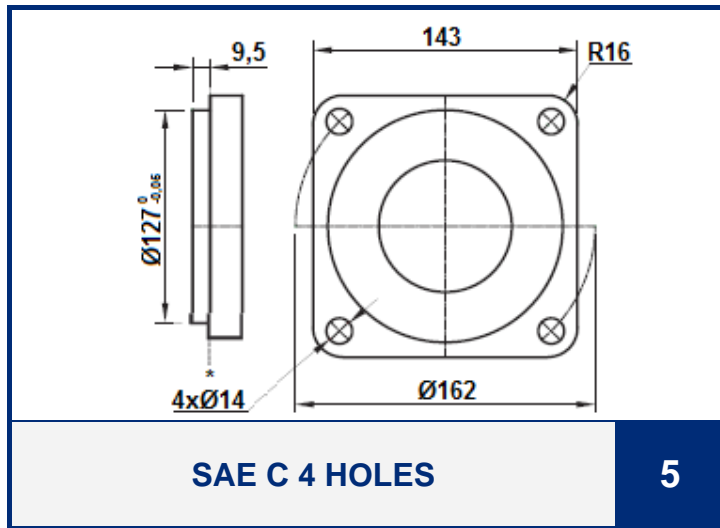
### Shafts



\* Standard mounting flange surface.

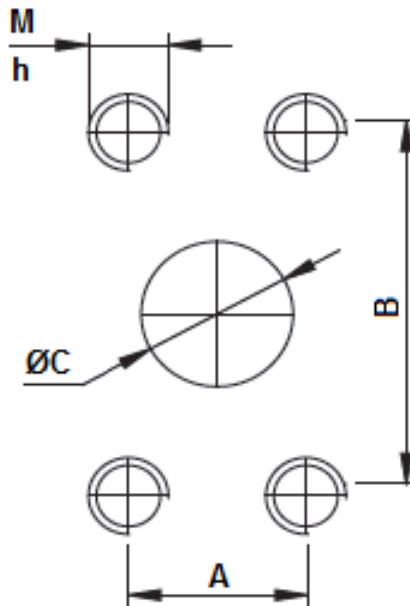
OPTION	SIZE	SIDE FIT	DIAMETRAL PITCH	ANGLE OF PRESSURE	NUMBER OF TEETH	EXTERNAL DIAMETER
<b>C</b>	SAE C 1-1/4"	Flat root	12/24	30°	14	31,20/31,12

### Mounting flanges



\* Standard mounting flange surface.

### Ports



MOTORS							MODEL	PUMPS													
INLET/OUTLET								INLET					OUTLET								
B1		B1/B25			B25			B2		B2/B26			B26		B2		B2/B26			B26	
M	h	A	B	C	M	h		M	h	A	B	C	M	h	M	h	A	B	C	M	h
1/2"-13 UNC	21	30,2	58,7	31	M12	20	3115	1/2"-13 UNC	21	35,7	69,8	38	M12	20	7/16"-14 UNC	19	30,2	58,7	31	M12	20
		35,7	69,8	38			3120			42,9	77,8	50					35,7	69,8	38		
		42,9	77,8	50			3125			50,8	88,9	63,5					42,9	77,8	50		
		3130																			
		3135																			

### Model coding

P	1	C	3115	B	2	B25	C
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**Rotation**

- A = Counter-clockwise
- C = Clockwise
- D = Bidirectional (only version 3)

**Ports (page 7):**

- B25 = Motor
- B26 = Pump

**Mounting flanges (page 7):**

- 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):**

3115 - 3120 - 3125 - 3130 - 3135

**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

**Version:**

- 1 = Version 1
- 3 = Version 3

**Pump/Motor:**

- P = Pump
- M = Motor



# Design and production of remote control components & systems

**The comprehensive range includes the following manufactured and marketed equipment:**

- Hydraulic pumps and motors
- Directional control valves
- Proportional pressure reducing valves
- Hydraulic, pneumatic and electric joysticks
- Radio controls and electronic controllers
- Control pads, dashboards and armrests
- Ergonomic, cylindrical and palm grips
- Electro-hydraulics pilot blocks
- Hydraulic filters
- heat exchangers and cooling systems
- Fluid monitoring and diagnostic equipment
- Bell housings, driving flanges & elastic couplings



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