Part number:

HYDROMA
HYDRAULICKÉ SYSTÉMY

HIDROMA SISTEMS
UKŁADY HYDRAULICZNE

HYDROMA
ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

2SPW
Cast Iron Gear Pump

Walvoil presents the new range of 2SPW Cast Iron Pumps.
These pumps are particularly suitable for all applications where traditional aluminum pumps are used at the limit of their performance; eg. for installation on mobile equipment intended for heavy duty operating cycles, where pressures or mechanical stresses are typically higher.
Its modular construction allows the same versatility of the Group 2 series with aluminum body, while maintaining the possible configurations in terms of flanges, shafts and integrated valves.

- ☐ **Long life expectancy**
- ☐ **High efficiencies**
- ☐ **High pressure limits**
- ☐ **Reduced number of components**
- ☐ **Reduced overall dimension**

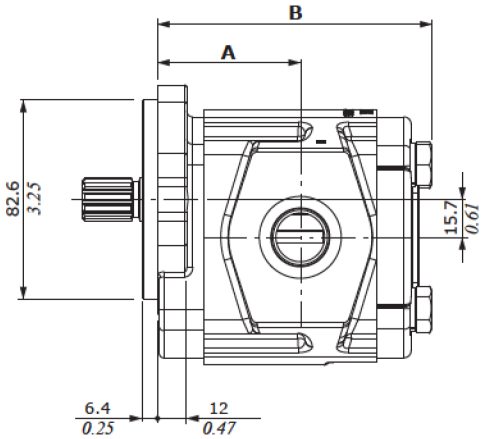
GENERAL WORKING CONDITIONS		
Displacement		from 14 to 31.5 cm³/rev *from 0.85 to 1.92 in³/rev*
Max continuous pressure	up to	250 bar - *3600 psi*
Fluid		hydraulic mineral oil-based
Fluid temperature range	with NBR (buna N) seals	from -20 to +80 °C *from -4 to +176 °F*
	with FPM (viton) seals	from -20 to +100 °C *from -4 to +212 °F*
Viscosity	Recommended	from 15 to 92 mm²/s (cSt)
	Permitted for starting	2000 mm²/s (cSt)
Max level of contamination	Recommended for operating pressure > 150 bar *(2150 psi)*	20/18/15 ISO 4406 *class 9 (NAS 1638)*
	Recommended for operating pressure < 150 bar *(2150 psi)*	21/18/15 ISO 4406 *class 10 (NAS 1638)*

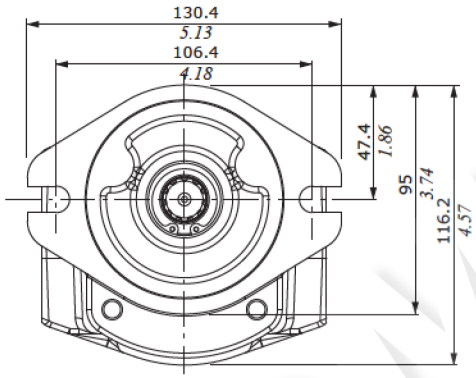
Technical data

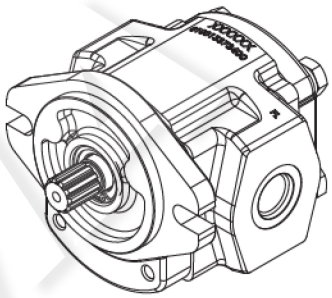
GROUP 2SPW	Displacement		Max continuous pressure		Max intermittent pressure		Max peak pressure		Max rotation speed
	cm³/rev	*in³/rev*	bar	*psi*	bar	*psi*	bar	*psi*	rpm
2SPW 140	14.0	*0.85*	250	*3,600*	280	*4,060*	300	*4,350*	3500
2SPW 160	16.5	*1.01*	250	*3,600*	280	*4,060*	300	*4,350*	3500
2SPW 190	19.5	*1.19*	250	*3,600*	280	*4,060*	300	*4,350*	3500
2SPW 220	22.5	*1.37*	250	*3,600*	270	*3,900*	300	*4,350*	3500
2SPW 260	26.0	*1.59*	230	*3,330*	250	*3,600*	280	*4,060*	3000
2SPW 310	31.5	*1.92*	200	*2,900*	240	*3,480*	250	*3,600*	2800

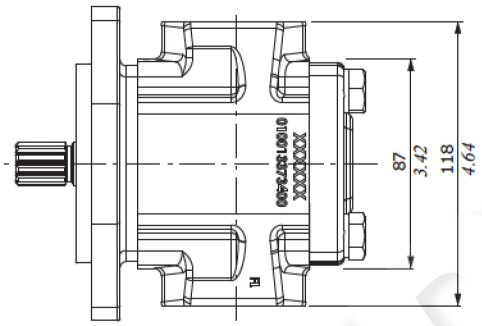
NEW

Dimensions



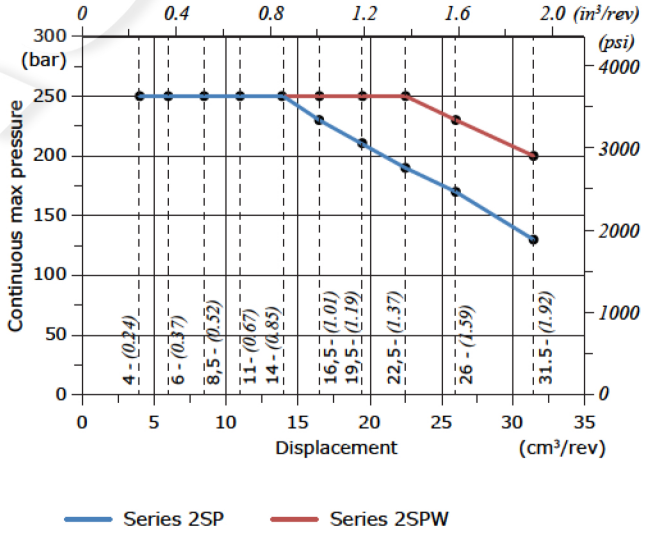






Series 2SP - 2SPW comparison

Continuous max. pressure vs. displacement

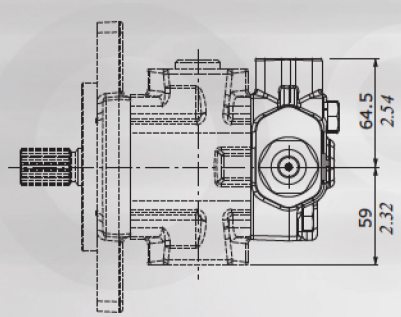


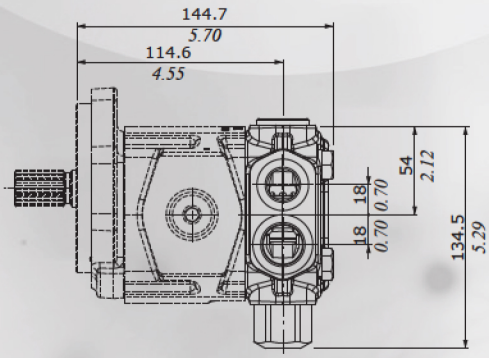
GROUP 2SPW	A		B	
	mm	in	mm	in
2SPW 140	54.9	2.161	109.5	4.311
2SPW 160	59.1	2.326	113.7	4.476
2SPW 190	64.1	2.524	118.7	4.673
2SPW 220	68.1	2.681	123.7	4.870
2SPW 260	67.9	2.673	129.5	5.098
2SPW 310	68.3	2.689	137.9	5.429

GROUP 2SPW	Ports Threading									
	BSP					UN-UNF				
	IN	OUT	IN*	OUT*	DRAIN*	IN	OUT	IN*	OUT*	DRAIN*
140	G3/4	G1/2	G3/4	G3/4	G1/4	SAE12	SAE10	SAE12	SAE12	SAE6
160	G3/4	G1/2	G3/4	G3/4	G1/4	SAE12	SAE10	SAE12	SAE12	SAE6
190	G3/4	G1/2	G3/4	G3/4	G1/4	SAE12	SAE10	SAE12	SAE12	SAE6
220	G1	G1/2	G3/4	G3/4	G1/4	SAE16	SAE10	SAE12	SAE12	SAE6
260	G1	G1/2	G3/4	G3/4	G1/4	SAE16	SAE10	SAE12	SAE12	SAE6
310	G1	G1/2	G3/4	G3/4	G1/4	SAE16	SAE10	SAE12	SAE12	SAE6

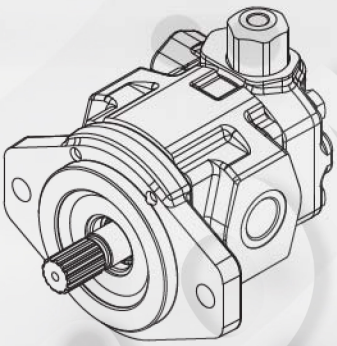
NOTE(*): Only f or reversible motor/pump configuration

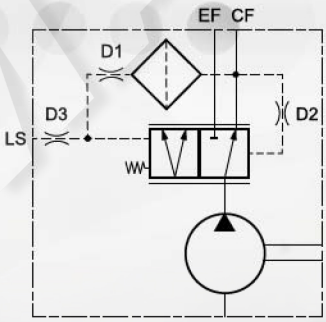
Dimensions: configuration with priority walve



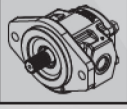


Configuration with priority valve built in the back cover of the pump





Combinations available with cast iron flanges

GROUP 2SPW		Shaft type											
		10 Tapered 1:8	11 Tapered 1:5	12 EUR Parallel shaft	13 SAEA Parallel shaft	14 SAEA 9T splined	15 DIN5482 9T splined (26/24)	16 DIN5482 9T splined (20)	40 SAE 10T splined (52)	41 SAE 10T splined (37.5)	42 SAEA 11T splined (55.6)	43 SAEA 11T splined (31.5)	44 SAEA 11T splined (13.5)
EUR		◇	●	◇	●	●	●	●					
SAEA		●	●	●	◇	◇	●	●	●	●	●	●	●
SAEB		●	●	●	◇	◇	●	●	●	●	●	●	●

◇ = STANDARD COMBINATION
● = AVAILABLE COMBINATION