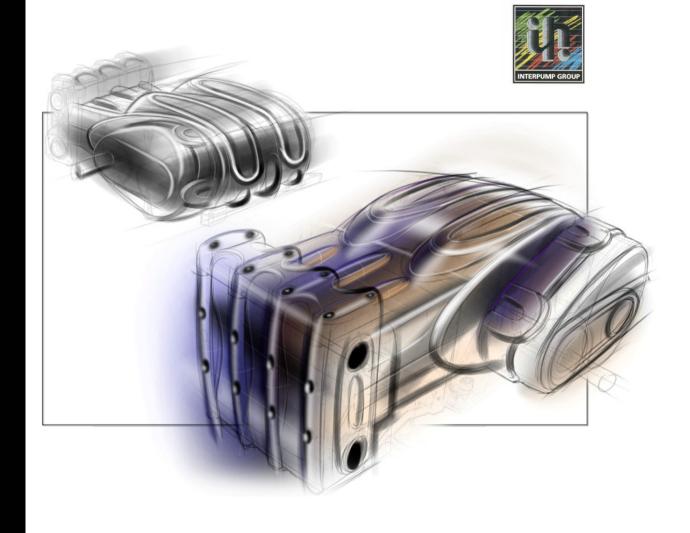
Pratissoli an the new MW

The project, scopes and features of a unique new line of pumps.



Presentation



1. Presentation 1/4

- 2. Scope of the project
- 2.a. Increase volumetric efficiency
- 2.b. Increase life time
- 2.c. Reduce noise level
- 2.d. Interchangeability
- 3. Options



In the course of the fourth quarter 2010 the MS pump will be phased out and replaced by the new MW line.

The MW line combines years of reliable pump design with the latest in technological advances, the result was a modern pump that promised long life, minimal downtime and greatly reduced operating cost.



1. Presentation 2/4

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MW vs. MS in numbers



MW series 100

Harroduced a longer stroke, now 70 mm. instead of 60 mm.

- -Introduced the plunger Ø 32 mm.
- -MW55 flow rate is now 400 liters/min.
- -Gear ratios: 1500 1800 2200 rpm
- -Lighter weight, less 20 Kg. when compared to the MS.

Model	Portata Volume Débit	Riduttore—Gear box Reducteur A B C			Pressione Pressure Pression		Potenza Power Puissance		Corsa Stroke Course	:70 mm.
		1500 rpm R=1:1,875	1800 rpm R=1:2,238	2200 rpm R=1:2,722					Battente max Max inlet pressure	: 3 bar (45 psi)
MW 32	l/m gpm		136 35,9		bar psi	300 4350	HP Kw	106 78	Pression alim. maxi Ouantità olio	: lt.9
MW 36	l/m gpm		172 45,4		bar psi	240 3500	HP Kw	108 79,4	<i>Oil capacity</i> Quantité huille	
MW 40	I/m gpm	213 56,3			bar psi	190 2750	HP Kw	105 77,2	Peso Weight Poids	: Kg.244
	Portata Volume	Riduttore—Gear box Reducteur			Pressione Pressure		Potenza Power			
	Volume			OOX	Pr	essure	Po	ower	Corsa Stroke	:70 mm.
Model		A 1500 rpm R=1:1,875		C 2200 rpm R=1:2,722	Pr			ower	Stroke Course Battente max Max inlet pressure	:70 mm. : 3 bar (45 psi)
Model MW 45	Volume	A 1500 rpm	Reducteur B 1800 rpm	C 2200 rpm	Pr	essure	Po	ower	Stroke Course Battente max	: 3 bar
	Volume Débit	A 1500 rpm	Reducteur B 1800 rpm R=1:2,238 269	C 2200 rpm	Pro Pro	essure ession 155	Po Puissi HP	ower ance 109	Stroke Course Battente max Max inlet pressure Pression alim. maxi	: 3 bar (45 psi)

Crankshaft speed: A 1500 = 800 rpm B 1800 = 804 rpm C 2200 = 808 rpm Volumes are theoretical at 100% volumetric efficiency

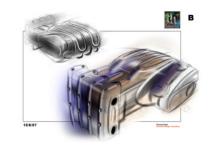


1. Presentation 3/4

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In order to improve volumetric efficiency two new fluid ends have been designed:

- H.P. above 155 bar up to 300 bar
- L.P. up to 155 bar





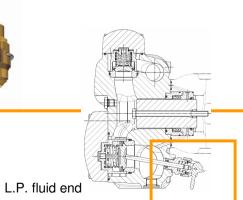


H.P. fluid end

L.P. fluid end



The drain valve kits come standard with the MW.



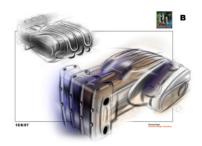


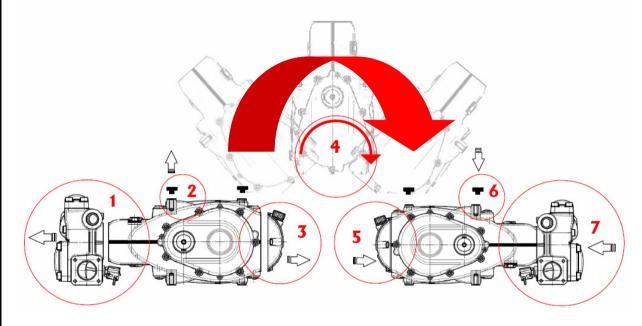


1. Presentation 4/4

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SYMETRICAL CRANKCASE DESIGN featuring both top and bottom mounting holes that allow for easy "left to right" shaft conversion in few simple steps:

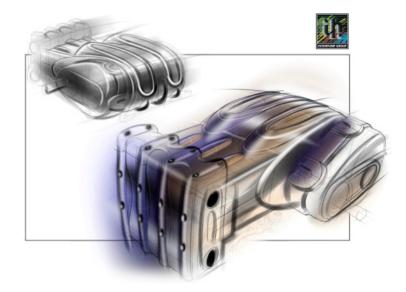




- 1. Remove head from the pump
- 2. Remove feet caps
- 3. Oil drain, then remove back cover
- 4. Turn the pump upside-down
- 5. Back cover back in place
- 6. Feet caps back in place
- 7. Head back in place.



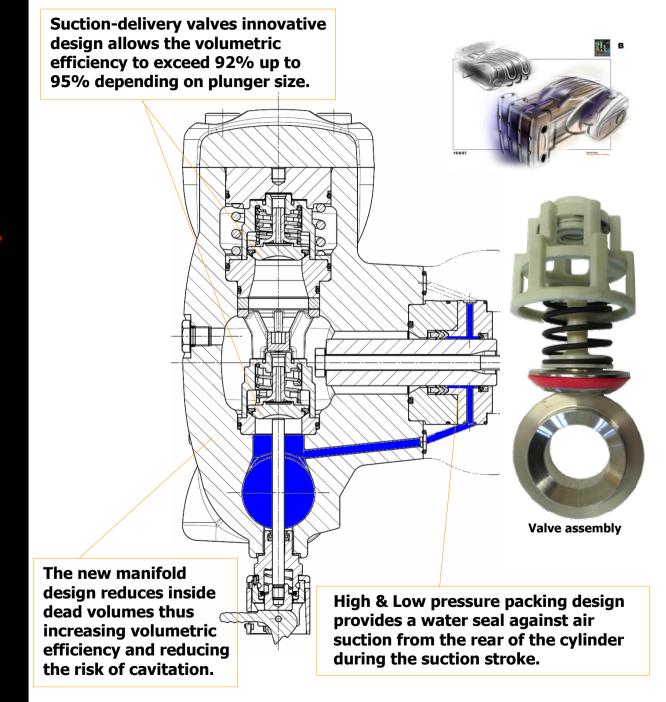
- 1. Presentation
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- a) Further increase volumetric efficiency and, at the same time, minimise cavitation risks.
- b) Further increase life time of wearing parts (minimizing down times and spare parts expenses).
- c) Reduce noise level.
- d) Interchangeability with the MS pumps with minor modifications.

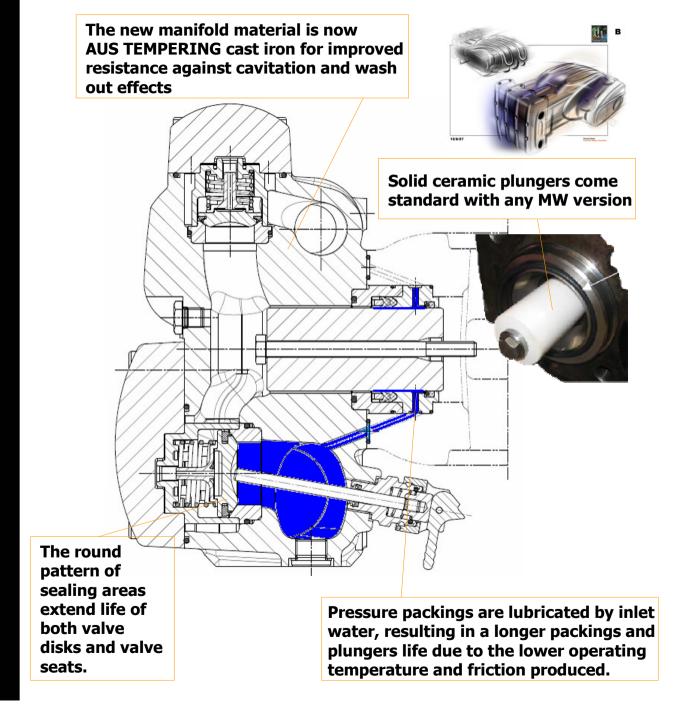
PratissoliTHE NEW **MW**

- 1. Presentation
- 2. Scope of the project
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- 1. Presentation
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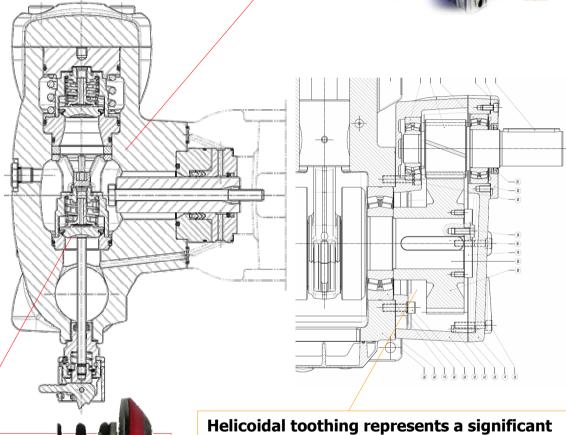


PratissoliTHE NEW MW

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The new manifold design reduces inside dead volumes, contributing in the noise reduction





The round pattern of sealing areas and a special polymer ring included in the valve disks dampen the noise generated by the valve work. Helicoidal toothing represents a significant noise reduction in comparison to the straight toothing. Not the least, helicoidal toothing allows higher power trasmission.

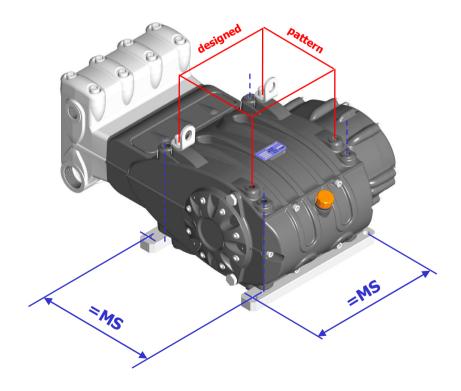
Helicoidal toothing is standard for all MW's.



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The MW is provided with a double mounting pattern. The red coloured pattern is the designed one, the blue coloured one is meant for the installation of retrofit brackets to match with the MS mount pattern. The retrofit brackets are supplied optional with the kit 2152 to make the MW perfectly interchangeable with the MS.





PratissoliTHE NEW MW

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- 3. Options 1/2

A number of optional configurations are available, most options are cumulative and can be provided in the same pump.





R (MW-R)

Suitable for charged water with particles size up to 200 microns and up to 20% concentration in the water.



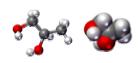
N(MW-N)

Block style duplex s.s. manifold designed for heavy duty applications in the food, chemical, pharmaceutical industries, such as reverse osmosis, purification, injection, processing and more.



F(MW-F)

The MW line can be supplied with a flushing system in order to increase life of pressure packings when pumping aggressive, high temperature, abrasive or low lubricant fluids.



G(MW-G)

The MW's can be arranged for pumping ethylene and polyethylene glycols at any concentration and pressure up to 40°C.



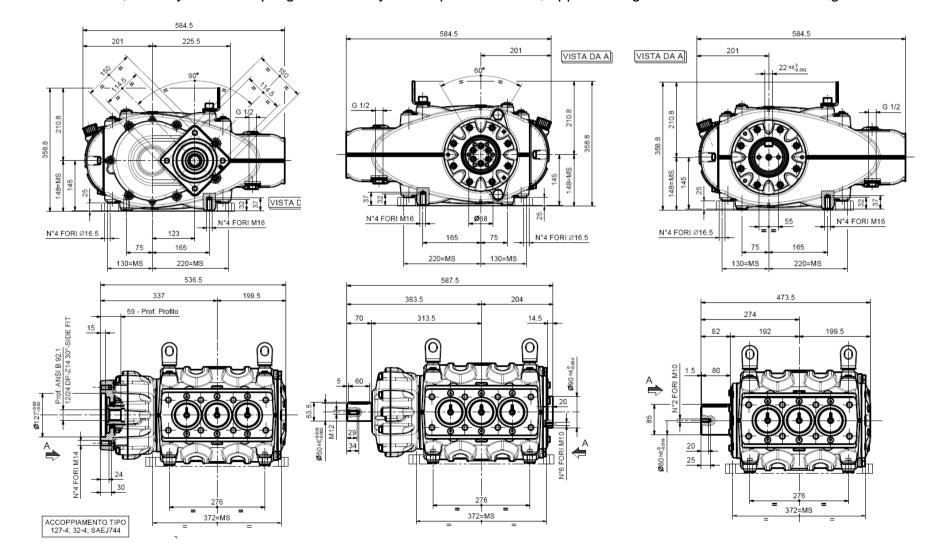
- 1. Presentation
- 2. Scope of the project
- 2.a. Increase volumetric efficiency
- 2.b. Increase life time

- 2.c. Reduce noise level2.d. Interchangeability
- 3. Options 2/2

SAE J744 127-4; 32-4 hydraulic coupling

Auxiliary 15 HP power take off, opposite to gear box D

Direct drive w/o gear box





- 1. Presentation
- 2. Scope of the project
- 2.a. Increase volumetric efficiency
- 2.b. Increase life time
- 2.c. Reduce noise level
- 2.d. Interchangeability
- 2.e. Reduce operating cost.
- 3. Options



Thank you for your attention.