



HIGH PRESSURE WATER PLUNGER PUMPS

Pompes à pistons haute pression
Pompe a pistoni per acqua alta pressione



	A 1800 rpm (ratio 1:3,29)						B 1500 rpm (ratio 1:2,65)						● Stroke Course Corsa ● Max. inlet pressure Pression aliment. max. Battente max. ● Oil capacity Quantité huile Capacità olio	: 72 mm.	
Model	Volume (*) Débit Portata		Pressure Pression Pressione		Power Puissance Potenza		Volume (*) Débit Portata		Pressure Pression Pressione		Power Puissance Potenza				
	L/m	GPM	bar	psi	kW	HP	L/m	GPM	bar	psi	kW	HP			
MH45	187	49,4	300	4350	108	147	194	51,2	300	4350	112	152			: 3 bar (45 psi)
MH50	231	61,0	250	3600	111	151	240	63,4	240	3500	111	151			
MH55	280	74,0	205	2950	110	149	290	76,6	200	2900	112	152			
MH60	333	88,0	175	2550	112	152	345	91,1	165	2400	110	149			
MH65	391	103	145	2100	109	148	405	107	140	2050	109	148	: 14 lt.		

Crankshaft speed – Vitesse rotation vilebrequin – Velocità rotazione albero a gomiti: A 1800 = 547 rpm B 1500 = 566rpm

(*) Volumes are theoretical at 100% volumetric efficiency – Débits théoriques 100% rendement volumétrique – Portate teoriche con rendimento volumetrico 100%.

CONSTRUCTION

- Triplex plunger pump, available in 5 versions.
- Gear box available on left or right side in 10 different positions.
- Double pressure packing.
- Vertical fitted valves.
- Splash lubricated power end.

MATERIAL QUALITY

- Pump body in cast iron.
- Head made of spheroidal cast iron, nickel treated.
- Self-adjusting shaft bearings with double roller rim.
- Forged steel connecting rods with antifricition bearings.
- Crankshaft made of nitrited, hardened and tempered alloy steel.
- Guide pistons in surface-treated spheroidal cast iron.
- Plungers made of stainless steel with ceramic coating.
- Valves made of stainless steel.

CONSTRUCTION

- Pompe pour eau haute pression à 3 pistons plongeurs, transformable en 5 versions.
- 10 options de positionnement du réducteur, à droit ou à gauche
- Double garniture haute pression.
- Clapets disposés verticalement.
- Lubrification par barbotage.

QUALITE DU MATERIEL

- Corps de pompe en fonte
- Tête de pompe en fonte sphéroïdale nickelée
- Paliers auto-aligneurs à double rangée de rouleaux
- Bielles en acier estampé avec coussinets antifricition
- Vilebrequin en acier traité
- Guides pistons en fonte sphéroïdale traité
- Pistons plongeurs en acier inoxydable recouvert de céramique
- Clapets aspiration/refoulement en acier inoxydable

COSTRUZIONE

- Pompa per acqua a 3 pistoni tuffanti orizzontali, trasformabile in 5 versioni
- Riduttore di giri laterale posizionabile a dx o sx della pompa in 10 posizioni differenti
- Doppia guarnizione di pressione
- Disposizione delle valvole verticale
- Lubrificazione a sbattimento

QUALITÀ MATERIALI

- Corpo pompa in ghisa meccanica
- Testata in ghisa sferoidale, trattata al nickel chimico
- Cuscinetti di supporto albero oscillanti a doppia corona di rulli
- Bielle in acciaio stampato con cuscinetti antifricione
- Albero a gomito in acciaio legato bonificato nitratato.
- Pistone di guida in ghisa sferoidale trattata
- Pistoni tuffanti in acciaio inox con riporto ceramico
- Valvole in acciaio inox



The technical drawing illustrates the dimensions of a pump assembly from two perspectives:

- Front View (Left):** Shows the main body with a total width of 717 mm. The mounting flange has a diameter of $\varnothing 55k6$. A central shaft or port has a diameter of $\varnothing 16,5$. Key horizontal dimensions include 80 mm, 460 mm, 257 mm, 415 mm, and 420 mm. A vertical dimension of 16x70 indicates a specific feature.
- Side View (Right):** Shows the profile of the pump. The overall length is 845 mm. The base height is 343 mm. Key horizontal dimensions include 209 mm, 570 mm, 165 mm, 440 mm, 150 mm, 230 mm, 92 mm, and 165 mm. Vertical dimensions include 165 mm, 74 mm, and 343 mm. It features two ports labeled G 1"1/4 and G 1/2". An angled connection is shown with a slope of M10.

WEIGHT – Poids – Peso: 423 kg. (933 lbs)

	A	B
INLET		Ø 80 mm
OUTLET	G 1 1/4	

Power required	1 HP = 0,735 kW	1 US Gallon = 3,785 lt.	1 bar = 14,503 psi
<i>Puissance absorbée</i>	1 kW = 1,36 HP	1 IMP Gallon = 4,546 lt.	1 psi = 0,00689 bar
<i>Potenza richiesta</i>	1 Kg = 2,204 lb.	1 m³/h = 16,7 l/m.	1 bar = 0,1 Mpa
	1 lb. = 0,453 Kg.		1 MPA = 10 bar

Pratissoli



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