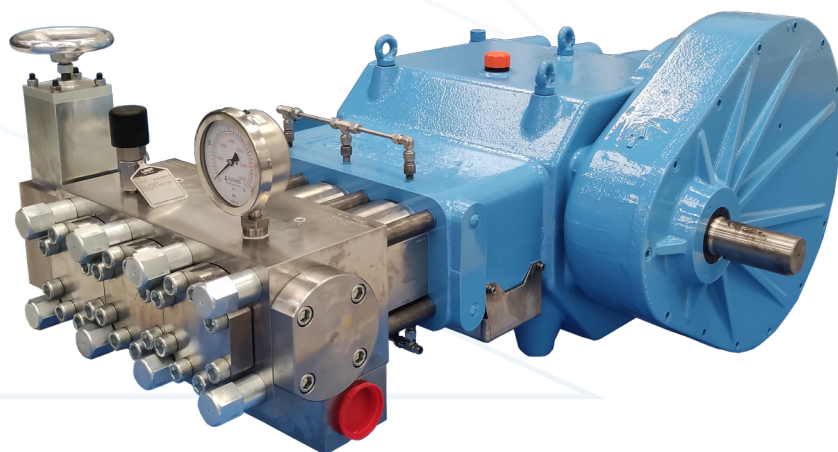




High & Ultra High Pressure Technology

HP300 Pump



Maximum Power

300HP

225kW



Maximum Pressure

1400bar at 77lpm

20,300psi at 20.5gpm



Maximum Flowrate

484lpm at 250bar

128.2gpm at 3,625psi

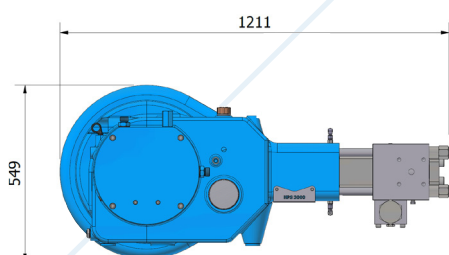


Features

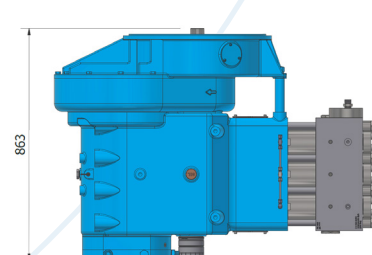
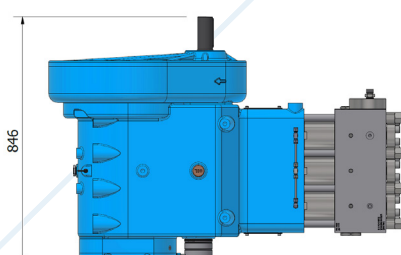
- 431 stainless steel pump head
- Solid tungsten carbide/ceramic plungers & self adjusting seals
- In-line valve arrangement for maximum efficiency & prevents the adverse effects of cyclic stress in the pumphead.
- Interchangeable plunger kits
- Hardened, alloy steel crankshaft with heavy duty roller & steel backed white metal-main bearings, supported between each connecting rod.
- SG iron crankcase with pressure lubrication, oil filtration & oil cooling.
- Forged connecting rods with low friction, shell type big end bearings and lead bronze lined small end bushes
- Gear driven, eliminating the need for belt drive
- Pressure gauge
- Safety valve or burst disc
- Outstanding seal, plunger & valve life.

Options

- Duplex stainless steel pump head for seawater applications (high volume only)
- Choice of gear ratio to suit diesel engine or electric motor drive
- SAE adaptor housing (SAE 1 or 3) for flange mounting the pump to a diesel engine flywheel housing ensuring extremely compact, perfectly aligned installations & enclosing all moving parts.
- Bareshaft pump only or complete unit build
- ATEX compliant



Approx. weight inc oil cooler
940kgs (2,068lbs)



Approx. weight inc oil cooler and optional SAE housing
990kgs (2,178lbs)

HP300 Pump

Plunger Diameter	Gear Ratio		Pump Speed	Power Required		Flow rate		Max Pressure	
	Input speed(rpm)			kW	HP	lpm	usgpm	bar	psi
30	5.13		292	161	216	62	16.4	1400	20,300
		5.13	351	193	259	74	19.7		
	4.11		365	201	270	77	20.5		
38	5.13		292	185	248	99	26.4	1000	14,500
		5.13	351	222	297	119	31.6		
	4.11		365	231	309	124	32.9		
45	5.13		292	181	243	140	37.0	700	10,150
		5.13	351	218	292	167	44.4		
	4.11		365	226	303	174	46.2		
50	5.13		292	179	240	172	45.7	560	8,120
		5.13	351	215	288	207	54.8		
	4.11		365	224	300	215	57.0		
60	5.13		292	180	241	248	65.7	390	5,655
		5.13	351	216	289	298	78.9		
	4.11		365	224	301	310	82.1		
70	5.13		292	182	244	338	89.5	290	4,205
		5.13	351	218	292	405	107.4		
	4.11		365	227	304	421	111.7		
75	5.13		292	180	241	388	102.7	250	3,625
		5.13	351	216	289	465	123.3		
	4.11		365	225	301	484	128.2		

Notes 1. Flowrates shown are theoretical and will reduce by approximately 7.5% at full pressure. 2. Pump stroke 100mm
3. Consult Hughes Pumps for required feed conditions

Hughes Pumps Limited
Highfield Works, Spring Gardens,
West Sussex, RH20 3BS
United Kingdom

Telephone +44 (0) 01903 892358
Email sales@hughes-pumps.co.uk
Web www.hughes-pumps.co.uk



Manufactured in
the UK since 1970

In line with the company's policy of research and development, alterations in design, dimensions and appearance are incorporated from time to time in order to ensure important developments are included at the earliest opportunity. The Company, therefore, reserves the right to alter design, dimensions etc without notice.