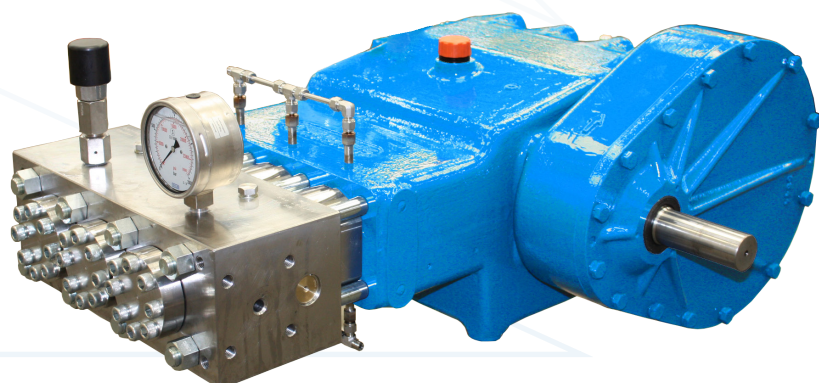


# HP120 Pump



## Maximum Power

# 120HP

90kW



## Maximum Pressure

# 1400bar

  
at 35lpm

20,300psi at 9.3gpm



## Maximum Flowrate

# 277lpm

  
at 175bar

73.4gpm at 2,538psi

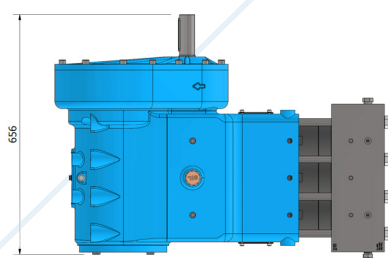
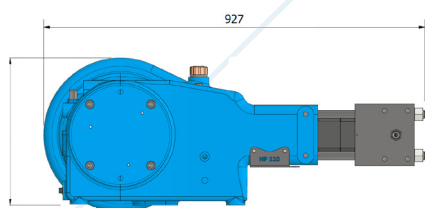


## Features

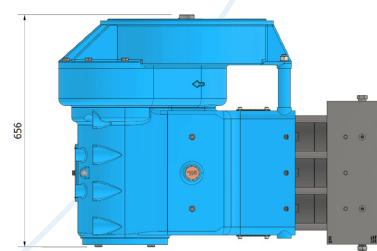
- 431 stainless steel pump head
- Solid tungsten carbide/ceramic plungers & self adjusting seals
- In-line valve arrangement for maximum efficiency & prevents the adverse effects of cyclic stress in the pumphead.
- Interchangeable plunger kits
- Hardened, alloy steel crankshaft with heavy duty roller main bearings.
- SG iron crankcase with splash lubrication.
- 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

- 316 stainless steel pump head for seawater applications
- Choice of gear ratio to suit diesel engine or electric motor drive
- SAE adaptor housing (SAE 1, 2 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
- Convertible to 2000/2800 bar (29,000/40,000 psi). See Ultrabar 30 data sheet.



Approx. weight  
437kgs (961lbs)



Approx. weight inc optional SAE housing  
467kgs (1,027lbs)

# HP120 Pump

Plunger Diameter	Gear Ratio Input speed(rpm)				Pump Speed	Power Required		Flow rate		Max Pressure	
mm	1500	1800	2000	2200	rpm	kW	HP	lpm	usgpm	bar	psi
22	5.71				263	62	84	24	6.4	1400	20,300
		5.71			315	75	100	29	7.6		
	4.53				331	79	105	30	8.0		
			5.71		350	83	111	32	8.5		
				5.71	385	91	122	35	9.3		
			4.53		442	82	110	40	10.7	1100	15,950
	3.09				485	90	121	44	11.7		
		3.70			486	91	122	44	11.8		
			4.53	486	90	121	44	11.7			
26	5.71				263	58	78	33	8.9	940	13,630
		5.71			315	70	94	40	10.6		
	4.53				331	74	99	42	11.2		
			5.71		350	78	104	45	11.8		
				5.71	385	86	115	49	13.0	780	11,310
		4.53			397	88	118	51	13.4		
	3.70				405	90	121	52	13.7		
			4.53		442	81	109	56	14.9		
30	3.09				485	90	120	62	16.4	700	10,150
		3.70			486	90	120	62	16.4		
				4.53	486	90	120	62	16.4		
					263	58	78	45	11.8		
	5.71				315	70	93	53	14.2	590	8,555
		5.71			331	73	98	56	14.9		
			5.71		350	77	104	59	15.8		
				5.71	385	85	114	65	17.3		
40		4.53			397	88	117	67	17.9	390	5,655
	3.70				405	89	120	69	18.2		
			4.53		442	82	110	75	19.9		
	3.09				485	90	121	82	21.8		
		3.70			486	90	121	83	21.9	330	4,785
				4.53	486	90	121	82	21.8		
	5.71				263	57	77	79	21.0		
		5.71			315	69	92	95	25.2		
50	4.53				331	72	97	100	26.5	250	3,625
			5.71		350	76	103	106	28.0		
				5.71	385	84	113	116	30.8		
		4.53			397	87	116	120	31.8		
	3.70				405	89	119	122	32.4	210	3,045
			4.53		442	82	109	133	35.3		
	3.09				485	90	120	146	38.8		
		3.70			486	90	121	147	38.9		
55				4.53	486	90	120	146	38.8	175	2,538
	5.71				263	57	77	124	32.8		
		5.71			315	69	92	149	39.4		
	4.53				331	72	97	156	41.4		
			5.71		350	77	103	165	43.8	210	3,045
				5.71	385	84	113	182	48.1		
		4.53			397	87	117	187	49.6		
	3.70				405	89	119	191	50.6		
55			4.53		442	81	109	208	55.1	210	3,045
	3.09				485	89	120	229	60.6		
		3.70			486	89	120	229	60.8		
				4.53	486	89	120	229	60.7		
	5.71				263	58	78	150	39.7	210	3,045
		5.71			315	70	94	180	47.6		
	4.53				331	74	99	189	50.0		
			5.71		350	78	104	200	52.9		
55				5.71	385	86	115	220	58.2	175	2,538
		4.53			397	88	118	227	60.1		
	3.70				405	90	121	231	61.3		
			4.53		442	82	110	252	66.7		
	3.09				485	90	121	277	73.4	175	2,538
		3.70			486	90	121	277	73.5		
				4.53	486	90	121	277	73.4		

Notes 1. Flowrates shown are theoretical and will reduce by approximately 7.5% at full pressure. 2. Pump stroke 80mm 3. Consult Hughes Pumps for required feed conditions 4. Maximum, intermittent performances are shown.

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Certification number 4257



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.