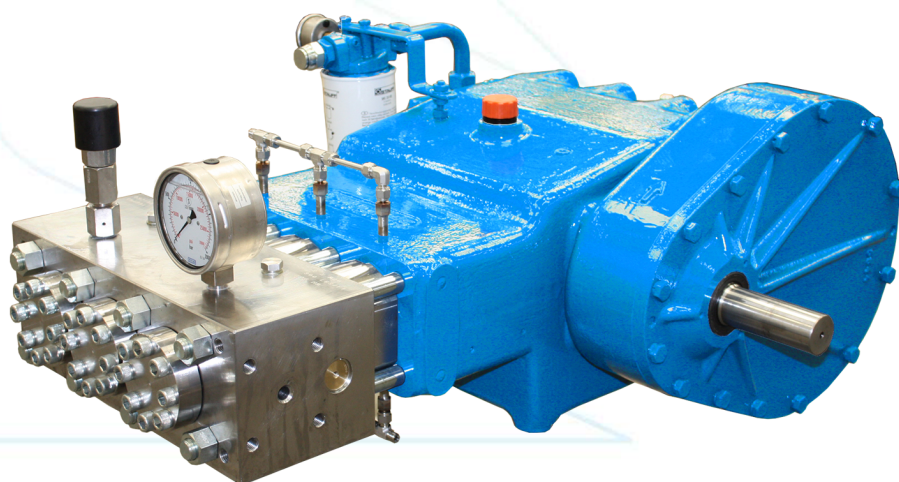




High & Ultra High Pressure Technology

HP220 Pump



Maximum Power

220HP

160kW



Maximum Pressure

1400bar

at 62lpm

20,300psi at 16.4 gpm



Maximum Flowrate

277lpm

at 310 bar

73.4gpm at 4,495psi

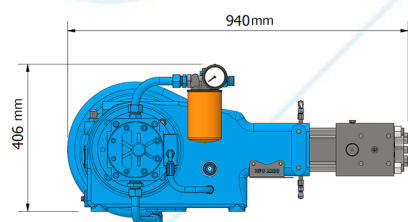


Features

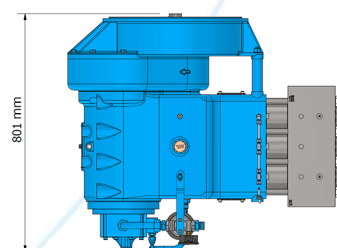
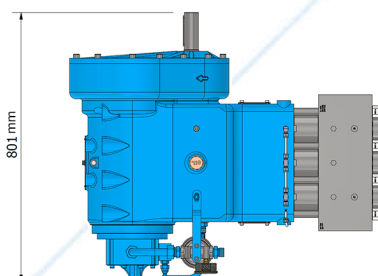
- 431 stainless steel pump head
- Solid tungsten carbide/ceramic plungers & self adjusting seals
- In-line valve arrangement for maximum efficiency & prevents the adverse effects of cyclic stress in the pumphead.
- Interchangeable plunger kits
- Hardened, alloy steel crankshaft with heavy duty roller and steel backed white metal main bearings, supported between each connecting rod
- SG iron crankcase with pressure lubrication, oil filtration and 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

- 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 inc oil cooler
460kg (1,012lbs)



Approx. weight inc oil cooler & optional SAE housing
490kgs (1,070lbs)

HP220 Pump

Plunger diameter	Gear Ratio				Pump speed	Power required		Flow rate		Max pressure	
	Input speed (rpm)					rpm	kW	HP	lpm	usgpm	bar
mm	1500	1800	2000	2200	rpm	kW	HP	lpm	usgpm	bar	psi
26	5.71				263	87	117	33	8.9	1400	20,300
		5.71			315	104	140	40	10.6		
	4.53				331	110	147	42	11.2		
			5.71		350	116	156	45	11.8		
				5.71	385	128	171	49	13.0		
	3.70	4.53			397	132	176	51	13.4		
			4.53		405	134	180	52	13.7		
	3.09				442	146	196	56	14.9		
	3.70			485	161	216	62	16.4			
				486	161	216	62	16.4			
			4.53	486	161	216	62	16.4			
30	5.71				263	83	111	45	11.8	1000	14,500
		5.71			315	99	133	53	14.2		
	4.53				331	104	140	56	14.9		
			5.71		350	110	148	59	15.8		
				5.71	385	121	163	65	17.3		
	3.70	4.53			397	125	168	67	17.9		
			4.53		405	128	171	69	18.2		
	3.09				442	139	186	75	19.9		
	3.70			485	153	205	82	21.8			
				486	153	205	83	21.9			
			4.53	486	153	205	82	21.8			
40	5.71				263	103	138	79	21.0	700	10,150
		5.71			315	124	166	95	25.2		
	4.53				331	130	174	100	26.5		
			5.71		350	137	184	106	28.0		
				5.71	385	151	202	116	30.8		
	3.70	4.53			397	156	209	120	31.8		
			4.53		405	159	213	122	32.4		
	3.09				442	143	192	133	35.3		
	3.70			485	158	211	146	38.8			
				486	158	212	147	38.9			
			4.53	486	158	211	146	38.8			
50	5.71				263	103	139	124	32.8	450	6,525
		5.71			315	124	166	149	39.4		
	4.53				331	130	175	156	41.4		
			5.71		350	138	185	165	43.8		
				5.71	385	152	203	182	48.1		
	3.70	4.53			397	156	210	187	49.6		
			4.53		405	160	214	191	50.6		
	3.09				442	143	192	208	55.1		
	3.70			485	157	211	229	60.6			
				486	157	211	229	60.8			
			4.53	486	157	211	229	60.7			
55	5.71				263	103	138	150	39.7	370	5,365
		5.71			315	123	166	180	47.6		
	4.53				331	130	174	189	50.0		
			5.71		350	137	184	200	52.9		
				5.71	385	151	202	220	58.2		
	3.70	4.53			397	156	209	227	60.1		
			4.53		405	159	213	231	61.3		
	3.09				442	145	194	252	66.7		
	3.70			485	159	214	277	73.4			
				486	160	214	277	73.5			
			4.53	486	159	214	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

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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 that important development are included at the earliest opportunity. The Company, therefore, reserves the right to alter design, dimensions etc without notice.