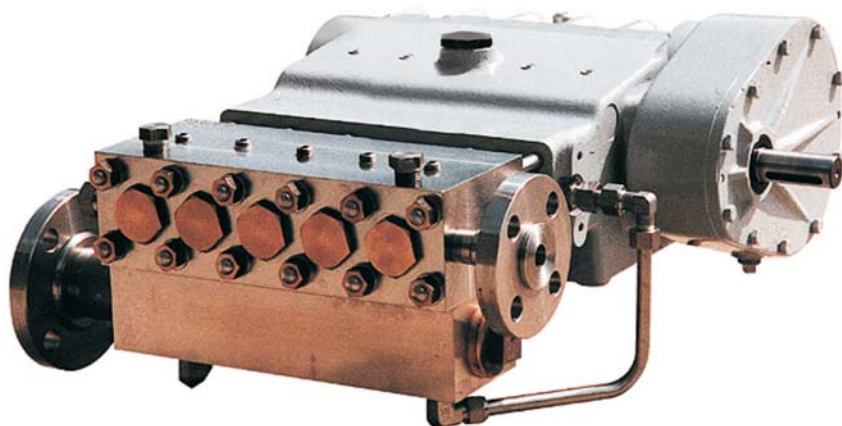




HPS 850

HIGH PRESSURE QUINTUPLEX PUMP



HPS850 High Volume Pump & Gearbox with optional flanged connections

Pump Head Type	Plungers (High Pressure)						Pistons (High Volume)	
	20	22	25	28	30	35	40	45
Diameter - mm	20	22	25	28	30	35	40	45
Input Power - kW	65						65	
Pump Speed - rpm	750						750	
Flow Rate - l/min	53	64	83	104	119	162	212	268
Pressure - bar	645	535	412	330	285	210	160	125

Flow Rates indicated are swept volume at maximum speed

Extending the series of pumps from the highly successful HPS650, the more powerful HPS850 offers an increased range of flow rates. The standard 5 cylinder build has an inherently smooth flow characteristic - flow variation is reduced to less than a third when compared to the more common triplex arrangement.

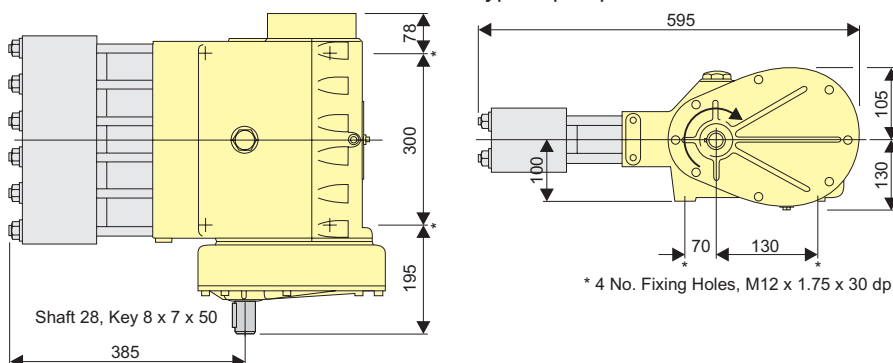
The close coupled, gear driven power end incorporates an oil circulation pump to assist in cooling. Standard adaptor housings are available

enabling the pump to be flange mounted to a diesel engine flywheel housing or electric motor ensuring extremely compact and perfectly aligned installations.

For maximum hydraulic efficiency, the in-line valve pump head arrangement is designed to minimise the unswept volume.

This improved design is capable of high pressure to high volume with outstanding seal, plunger and valve life.

General Dimensions - typical pump build



Approx weight - 150 kg (with gearbox)

Features:

- * Robust, rugged and reliable
- * Versatile (interchangeable fluid heads and plunger kits)
- * Stainless steel fluid heads (431 standard or 316)
- * 65 kW (85 hp) input
- * Hardened, alloy steel crankshaft with heavy duty roller and steel backed white metal main bearings, supported between each connecting rod
- * Cast iron crankcase with gear type oil pump for oil cooling
- * Forged connecting rods with low friction, shell type big end bearings and lead bronze lined small end bushes

Build Options:

- * Choice of gear ratio to suit electric motor or diesel engine drive
- * Standard adaptor housings (SAE 3, 4 & 5) for flange mounting the pump to a diesel engine flywheel housing or electric motor
- * Piston kits for high volume applications
- * Safety relief valves
- * Unloading valves
- * Selector/Diverter valves (manual or actuated)
- * Complete unit build or bare shaft pump only



P U M P S L T D

Highfield Works, Spring Gardens
Washington, W. Sussex, UK RH20 3BS

Tel: +44 (0) 1903 892358 Fax: +44 (0) 1903 892062

Website: www.hughes-pumps.co.uk
Email: enquiries@hughes-pumps.co.uk

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