



An ISO 9001:2008 Certified Company

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TSA – 100 Piston Pump Technical Data

Specifications	
Pump Model	TSA – 100
Configuration	Horizontal, Triplex, Single Acting, Reciprocating, Piston Pump
Number of Pistons	3
Stroke Length	100mm
Maximum Number of Stroke	200 SPM (Crank Shaft)
Maximum Input Speed	644 RPM (Jack Shaft)
Input Power	32 BHP
Lubricating System	Splash, Gravity Return
Suction Size	75mm (3")
Discharge Size	50mm (2")
Valve Type	Wing Guided Valve
Plunger Load	2000 Kgs.

TSA – 75 Performance Rating

Piston	Displacement/Rev	Maximum Pressure	Pump Capacity @ Crank Shaft SPM				
			100 SPM	125 SPM	150 SPM	175 SPM	200 SPM
Mm	Litter	Kg/cm ²					
100	2.355	25.48	236	294	353	412	471
90	1.908	31.45	191	238	286	334	382
80	1.507	39.81	151	188	226	264	301
75	1.325	45.29	132	166	199	232	265
65	0.995	60.30	99	124	149	174	199
60	0.848	70.77	85	106	127	148	170

- * The volumetric discharge is theoretical assuming pump running at 100% efficiency.
- * The actual volumetric efficiency at which the pump operates is normally 90%
- * The above parameters are at 1 specific gravity of fluid. The pump can handle even 1.12 specific gravity fluids but the capacities will reduce correspondingly.
- * The specifications are subject to change without notice, due to continued research & development.
- * Fluid chamber's material based on required pressure ratings or As per customer requirement.
- * We also manufactured pump as per API – 674 Standard
- * Specifications subject to change without notice