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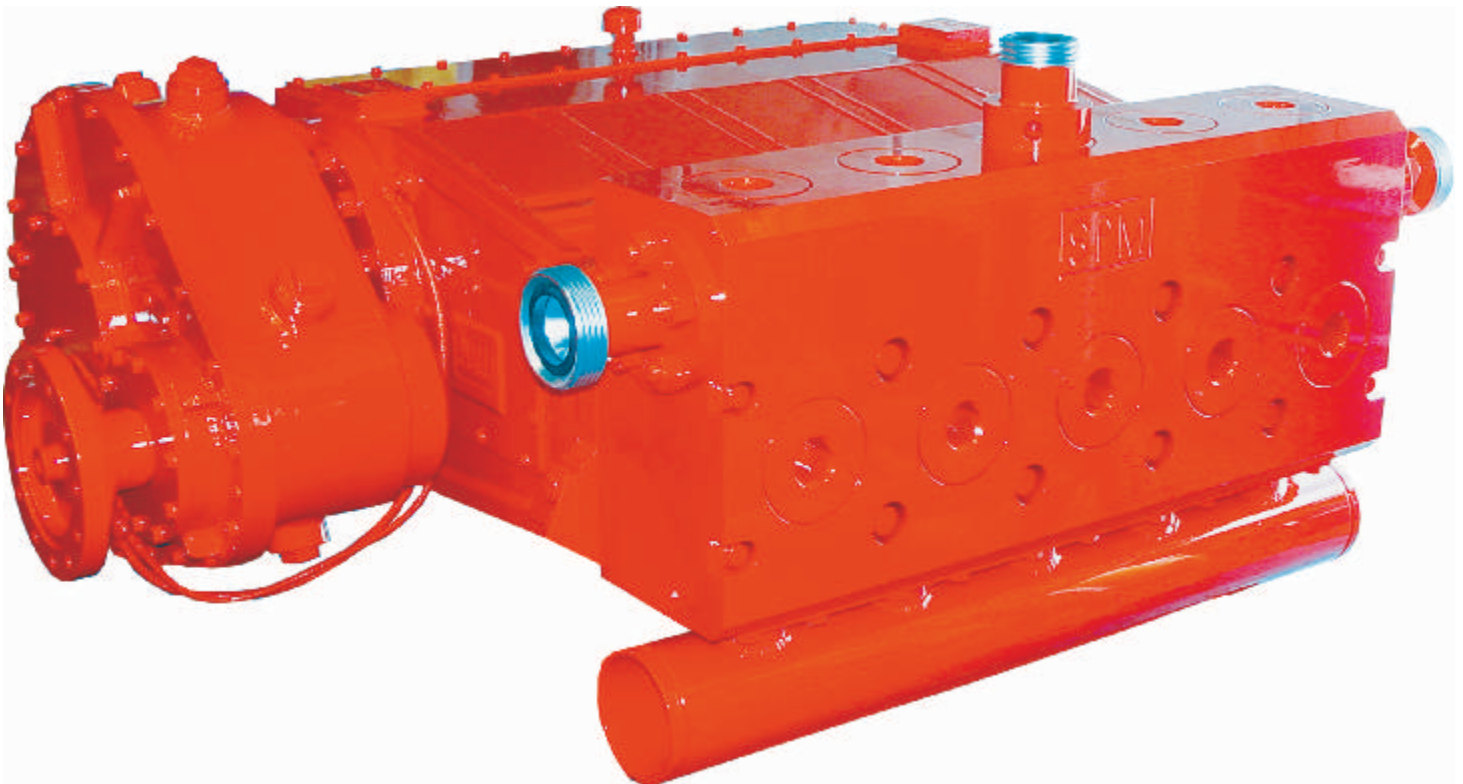


QWS 1000S Well Service Pump

The QWS 1000S is a versatile quintuplex pump featuring an efficient design that can be utilized in a back-to-back configuration.

Similar in design to the TWS 600S, the QWS 1000S offers a more powerful pump, capable of handling higher loads while still maintaining a compact design. Unique design features allow the QWS 1000S to be mounted in a back-to-back configuration on a single unit.

The QWS 1000S can be utilized in acidizing, cementing, gravel packing and snubbing operations.



QWS 1000S Performance Specs

Max Brake Horsepower: 1,000 BHP (746 Kw)
 Max Rod Load Capacity: 100,000 lb (45,359 kg)
 Stroke Length: 6 Inches (152.4 mm)
 Gear Ratio: 4.61 : 1

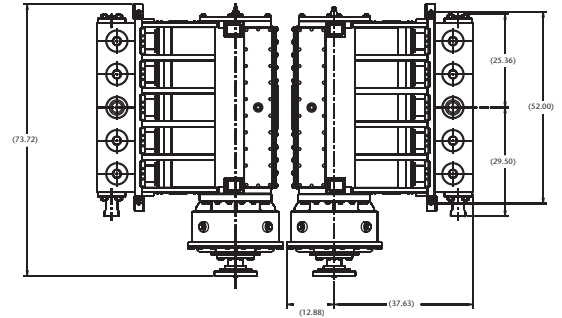
Approx. Length: 50 Inches (1,270 mm)
 Approx. Width: 73 Inches (1,854 mm)
 Approx. Height: 24 Inches (609 mm)
 Approx. Weight (Dry): 7,040 lb (3,193 kg)

QWS 1000S Performance Data ^{1, 2}

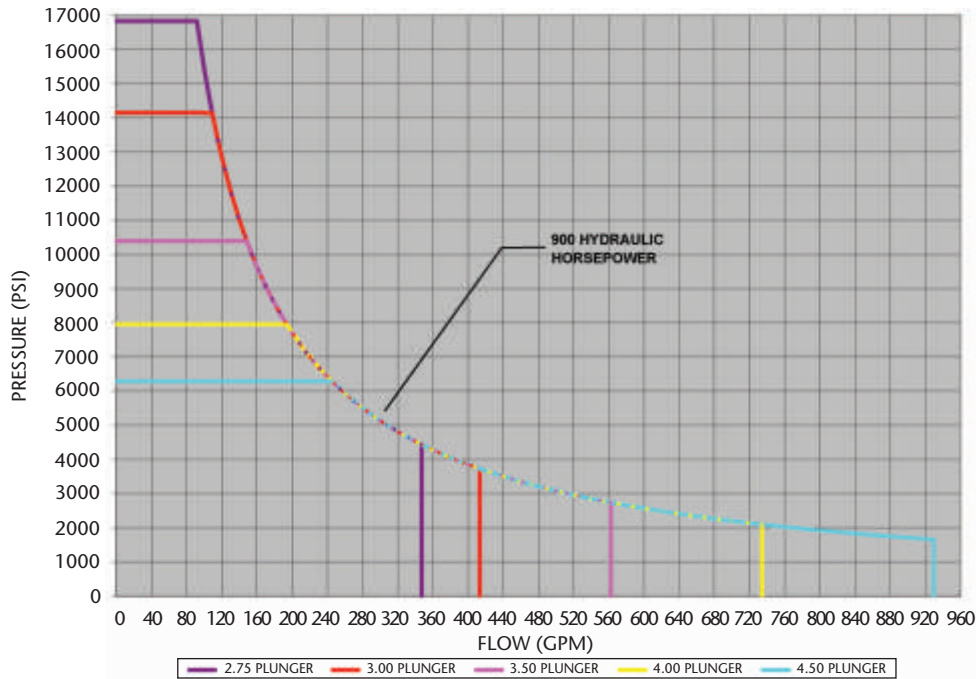
PLUNGER DIAMETER	OUTPUT PER REV	DISPLACEMENT AT PUMP STROKES PER MINUTE / PINION RPM											
		50 / 231		100 / 461		119 / 548		200 / 922		300 / 1383		450 / 2075	
in (mm)	gal/rev (liter/rev)	gpm (lpm)	psi (kg/cm ²)	gpm (lpm)	psi (kg/cm ²)	gpm (lpm)	psi (kg/cm ²)	gpm (lpm)	psi (kg/cm ²)	gpm (lpm)	psi (kg/cm ²)	gpm (lpm)	psi (kg/cm ²)
2½ (63.5)	0.64 (2.4)	32 (121)	20,372 (1436)	64 (241)	20,372 (1436)	76 (287)	20,368 (1435)	127 (483)	12,009 (853)	191 (724)	8,066 (568)	287 (1086)	5,377 (379)
2¾ (69.9)	0.77 (2.9)	39 (146)	16,836 (1186)	77 (292)	16,836 (1186)	92 (347)	16,833 (1186)	154 (584)	9,999 (705)	231 (876)	6,666 (470)	347 (1314)	4,444 (313)
3 (76.2)	0.92 (3.5)	46 (174)	14,147 (997)	92 (347)	14,147 (997)	109 (413)	14,145 (997)	184 (695)	8,402 (592)	275 (1042)	5,601 (395)	413 (1564)	3,734 (263)
3½ (88.9)	1.25 (4.7)	62 (236)	10,394 (732)	125 (473)	10,394 (732)	148 (562)	10,392 (732)	250 (946)	6,173 (435)	375 (1419)	4,115 (290)	562 (2128)	2,744 (193)
4 (101.6)	1.63 (6.2)	82 (309)	7,958 (561)	163 (618)	7,958 (561)	194 (734)	7,956 (561)	326 (1235)	4,726 (333)	490 (1853)	3,151 (222)	734 (2780)	2,100 (148)
4½ (114.3)	2.07 (7.8)	103 (391)	6,288 (443)	207 (782)	6,288 (443)	245 (929)	6,287 (443)	413 (1564)	3,734 (263)	620 (2345)	2,489 (175)	929 (3518)	1,660 (117)
INPUT POWER: BHP (Kw)		421 (314)		842 (628)		1000 (746)		1000 (746)		1000 (746)		1000 (746)	

1 Based on 90% ME and 100% VE - Intermittent Service Only.
 2 For applications demanding pressures over 15,000 psi, contact Weir SPM Engineering.

QWS 1000S Back-to-Back Layout



QWS 1000S Hydraulic Horsepower Curve



Note: This chart shows this pump's performance at max hydraulic horsepower. Notice as the plunger size for the pump increases, a greater max flow rate is achieved while the max pressure decreases.

Weir SPM

7601 Wyatt Drive
 Fort Worth
 TX 76108
 USA

Tel: (817) 246 2461
 Fax (817) 246 6324
 www.weiroilandgas.com

