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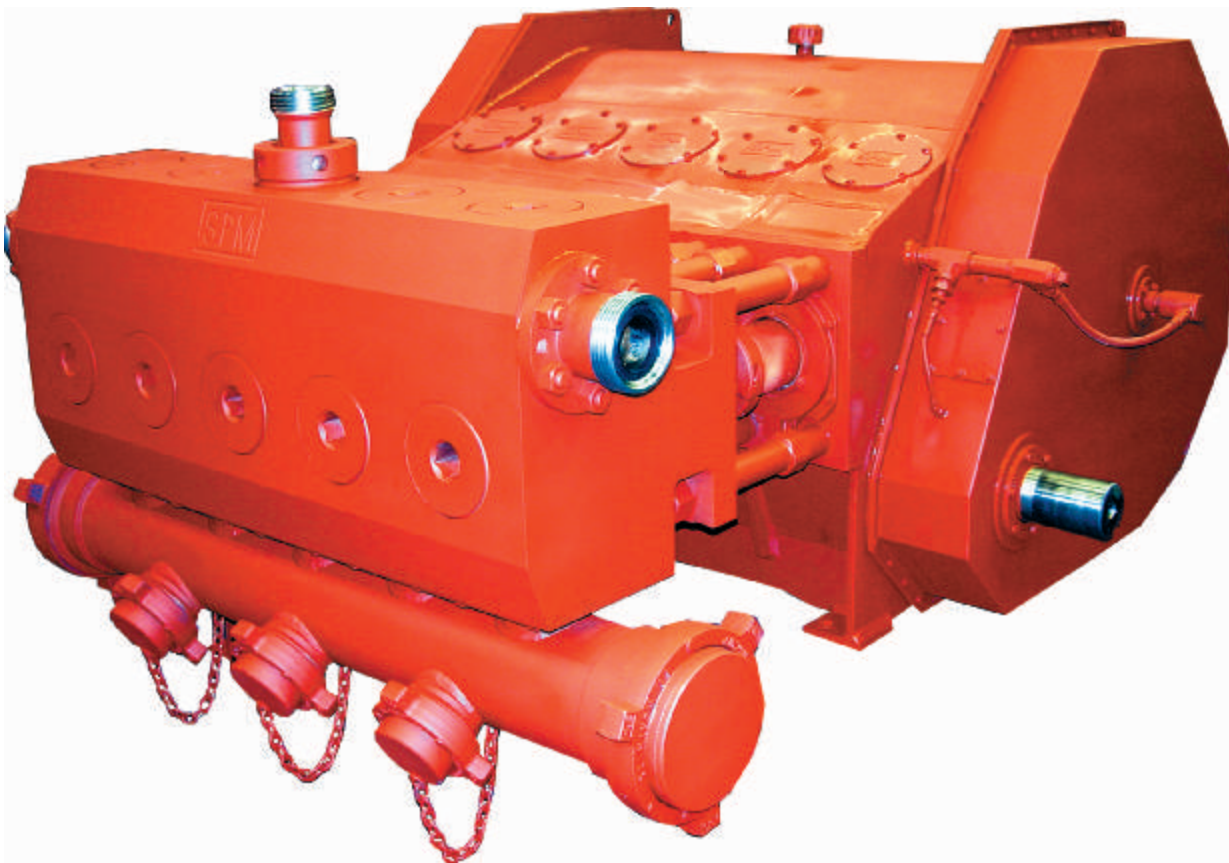
QWS 2500SD Well Service Pump

The QWS 2500SD is a rugged well service pump designed and manufactured to operate in harsh pumping conditions.

The QWS 2500SD is designed to withstand 10 hours of operation up to 6 days a week while maintaining a high performance rod load capacity that is necessary for harsh pumping conditions such as fracturing in the Barnett Shale.

Benefits of the QWS 2500SD:

- 24% greater wrist pin bearing surface area than the QWS 2500 Classic.
- A more robust design featuring thicker performance plates than the QWS 2500 Classic.
- A514 (T1) steel construction for maximum strength.
- Fully interchangeable with the QWS 2500 Classic, with the same mounting and driveline positions.
- Robust outer skins.
- Fully-welded structural members.



QWS 2500SD Performance Specs

Max Brake Horsepower:	2,500 BHP (1,866 Kw)	Approx. Length:	84.75 Inches (2,153 mm)
Max Rod Load Capacity:	192,325 lb (87,239 kg)	Approx. Width:	73.875 Inches (1,877 mm)
Stroke Length:	8 Inches (203.2 mm)	Approx. Height:	43.375 Inches (1,102 mm)
Gear Ratio:	6.353:1	Approx. Weight (Dry):	16,000 lb (7,257 kg)

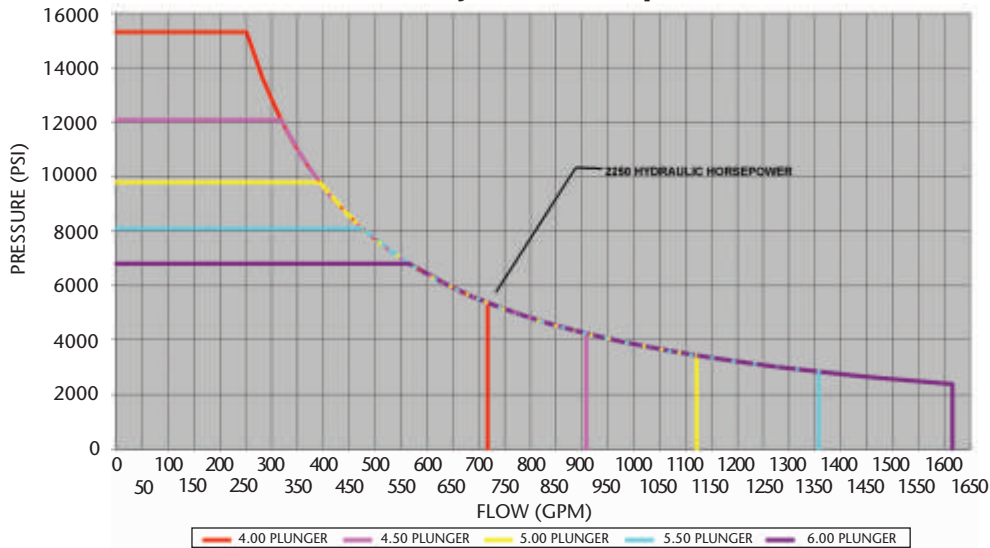
QWS 2500SD Performance Data ^{1, 2}

PLUNGER DIAMETER	DISPLACE. PER REV	DISPLACEMENT AT PUMP STROKES PER MINUTE / PINION RPM																							
		100		635		116		736		150		953		200		1271		250		1588		330		2096	
		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)	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)
3½ (88.9)	1.67 (6.3)	167 (631)	19,990 (1409)	193 (730)	19,990 (1409)	250 (946)	15,432 (1088)	333 (1261)	11,574 (816)	416 (1576)	9,259 (653)	550 (2081)	7,015 (494)												
3¾ (95.3)	1.91 (7.2)	191 (724)	17,413 (1227)	221 (838)	17,413 (1227)	287 (1086)	13,443 (947)	382 (1448)	10,082 (711)	478 (1810)	8,066 (568)	631 (2389)	6,111 (431)												
4 (101.6)	2.18 (8.2)	218 (824)	15,305 (1079)	252 (954)	15,305 (1079)	326 (1235)	11,815 (833)	435 (1647)	8,861 (624)	544 (2059)	7,089 (500)	718 (2718)	5,371 (378)												
4½ (114.3)	2.75 (10.4)	275 (1042)	12,093 (852)	319 (1207)	12,093 (852)	413 (1564)	9,336 (658)	551 (2085)	7,002 (493)	688 (2606)	5,601 (395)	909 (3440)	4,243 (299)												
5 (127.0)	3.40 (12.9)	340 (1287)	9,795 (690)	394 (1490)	9,795 (690)	510 (1930)	7,562 (533)	680 (2574)	5,671 (400)	850 (3217)	4,537 (320)	1,122 (4247)	3,437 (242)												
5½ (139.7)	4.11 (15.6)	411 (1557)	8,095 (570)	476 (1803)	8,095 (570)	617 (2336)	6,249 (440)	823 (3114)	4,687 (330)	1,028 (3893)	3,750 (264)	1,358 (5139)	2,841 (200)												
5¾ (146.1)	4.50 (17.0)	450 (1702)	7,406 (522)	521 (1971)	7,406 (522)	674 (2553)	5,718 (403)	899 (3404)	4,288 (302)	1,124 (4255)	3,431 (242)	1,484 (5616)	2,599 (183)												
6 (152.4)	4.90 (18.5)	490 (1853)	6,802 (479)	567 (2146)	6,802 (479)	734 (2780)	5,251 (370)	979 (3706)	3,938 (278)	1,224 (4633)	3,151 (222)	1,616 (6115)	2,387 (168)												
6½ (165.1)	5.75 (21.7)	575 (2175)	5,796 (408)	665 (2518)	5,796 (408)	862 (3262)	4,474 (315)	1,149 (4350)	3,356 (236)	1,436 (5437)	2,685 (189)	1,896 (7177)	2,034 (143)												
6¾ (171.5)	6.20 (23.5)	620 (2345)	5,375 (379)	718 (2716)	5,375 (379)	929 (3518)	4,149 (292)	1,239 (4691)	3,112 (219)	1,549 (5863)	2,489 (175)	2,045 (7740)	1,886 (133)												
INPUT POWER: BHP (Kw)		2159 (1611)		2500 (1866)		2500 (1866)		2500 (1866)		2500 (1866)		2500 (1866)		2500 (1866)		2500 (1866)		2500 (1866)		2500 (1866)		2500 (1866)		2500 (1866)	

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 2500SD 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.

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