CanDyne Inc

Weatherford®

W250 Triplex Pump

Pump Specifications

Rated (HP, *kW*)	250	*187*
Stroke length (in., *mm*)	5	*127*
Maximum discharge pressure (PSI, *Bar*)		
W250H	5,000	*345*
W250M	3,030	*209*
W250L	1,540	*106*
Rated rod load (lb, *kg*)	14,885	*6,738*
API-674 speed, RPM	310	
Maximum speed, RPM	400	
Minimum speed, RPM	100*	
Crankshaft dimensions (in., *mm*)		
Diameter	4.875	*124*
Length (long)	11.85	*301*
Length (short)	5.62	*143*
Keyway, width × depth (in., *mm*)	1.25 × .62	*32 × 16*
Oil capacity (gal, *l*)		
Pump	6.5	*24.6*
Reducer (varies with ratio)	3.5 to 6.5	*13 to 25*
Weight (lb, *kg*); estimates only		
Pump		
W250H	4,932	*2,237*
W250M	4,958	*2,249*
W250L	4,588	*2,081*
Reducer	1,100	*499*
Mechanical efficiency	90%	

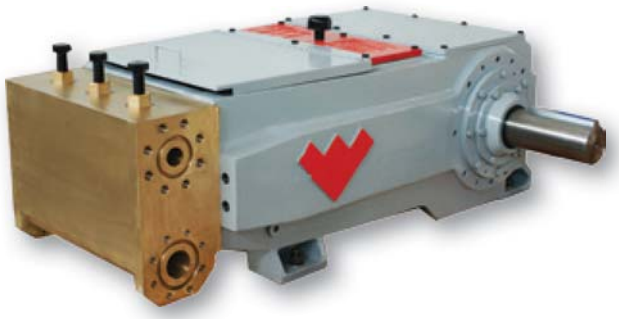
* can be reduced to 50 rpm with the addition of an auxiliary lube (slow speed) kit

Flange Connections

Pump Model	Discharge Connection Sizes (in., *mm*)	Suction Connection Sizes (in., *mm*)
W250H	2 *(50.8)* ANSI 2500 RJ	3 *(76.2)* API 2000 RJ
W250M	2 *(50.8)* API 5000 RJ	4 *(101.6)* ANSI 150 FF
W250L	3 *(76.2)* API 2000 RJ	6 *(152.4)* ANSI 150 FF

Applications

- Amine gas sweetening
- Methanol injection
- Water injection
- Chemical injection
- Glycol gas dehydration
- Light hydrocarbon transportation
- Crude transfer
- Polymer flood
- Produced water disposal
- Steam boiler feed
- Hydrostatic testing
- Ammonia
- Horizontal directional drilling
- Hot-oil truck injection



Standard Equipment

- Cast aluminum-bronze, forged duplex stainless steel, or forged carbon steel fluid ends
- Aluminum-bronze or duplex stainless steel stuffing boxes
- Various valve designs offered per fluid end style
- Tungsten carbide coated plungers over stainless steel base or solid ceramic plungers
- Double extended crankshaft
- Multiple plunger packing arrangements offered

Optional Accessories

- Weatherford bolt on gear reducers
- Packing lubricators
- Customized plunger packing arrangements
- Complete pump packages
- Ported stuffing boxes and leak detection systems offered for H_2S or light fluids
- An internal or external auxillary lube kit (slow speed kit) allows pump to be turned down to 50 rpm and is required for speeds below 100 rpm.

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Performance Ratings

Model (standard)	Plunger Diameter (in.)	Gallons Per Revolution	Maximum Pressure PSI	100 RPM		150 RPM		200 RPM		310 RPM*(API 674)		350 RPM		400 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
W250H	1.875	0.1793	5,000	17.9	615	26.9	922	35.9	1,229	55.6	1,906	62.8	2,152	71.7	2,459
	2.000	0.2040	4,730	20.4	699	30.6	1,049	40.8	1,399	63.2	2,168	71.4	2,448	81.6	2,798
	2.125	0.2303	4,190	23.0	790	34.5	1,184	46.1	1,579	71.4	2,448	80.6	2,764	92.1	3,158
	2.250	0.2582	3,740	25.8	885	38.7	1,328	51.6	1,770	80.0	2,744	90.4	3,098	103.3	3,541
W250M	2.500	0.3187	3,030	31.9	1,093	47.8	1,639	63.7	2,186	98.8	3,388	111.6	3,825	127.5	4,371
	2.750	0.3857	2,500	38.6	1,322	57.9	1,984	77.1	2,645	119.6	4,099	135.0	4,628	154.3	5,289
	3.000	0.4590	2,100	45.9	1,574	68.8	2,361	91.8	3,147	142.3	4,879	160.6	5,508	183.6	6,295
	3.250	0.5387	1,790	53.9	1,847	80.8	2,770	107.7	3,694	167.0	5,725	188.5	6,464	215.5	7,388
W250L	3.500	0.6247	1,540	62.5	2,142	93.7	3,213	124.9	4,284	193.7	6,640	218.7	7,497	249.9	8,568
	3.750	0.7172	1,340	71.7	2,459	107.6	3,688	143.4	4,918	222.3	7,623	251.0	8,606	286.9	9,836
	4.000	0.8160	1,180	81.6	2,798	122.4	4,197	163.2	5,595	253.0	8,673	285.6	9,792	326.4	11,191
	4.250	0.9212	1,050	92.1	3,158	138.2	4,738	184.2	6,317	285.6	9,791	322.4	11,054	368.5	12,633
	4.500	1.0327	930	103.3	3,541	154.9	5,311	206.5	7,082	320.2	10,977	361.5	12,393	413.1	14,163

Model (metric)	Plunger Diameter (in.)	Litres Per Revolution	Maximum Pressure BAR	100 RPM		150 RPM		200 RPM		310 RPM*(API 674)		350 RPM		400 RPM	
				LPM	M^3/hr	LPM	M^3/hr	LPM	M^3/hr	LPM	M^3/hr	LPM	M^3/hr	LPM	M^3/hr
W250H	1.875	0.6786	371	67.9	4.1	101.8	6.1	135.7	8.1	210.4	12.6	237.5	14.3	271.5	16.3
	2.000	0.7721	326	77.2	4.6	115.8	6.9	154.4	9.3	239.4	14.4	270.2	16.2	308.9	18.5
	2.125	0.8717	289	87.2	5.2	130.8	7.8	174.3	10.5	270.2	16.2	305.1	18.3	348.7	20.9
	2.250	0.9772	257	97.7	5.9	146.6	8.8	195.4	11.7	302.9	18.2	342.0	20.5	390.9	23.5
W250M	2.500	1.2065	209	120.6	7.2	181.0	10.9	241.3	14.5	374.0	22.4	422.3	25.3	482.6	29.0
	2.750	1.4598	172	146.0	8.8	219.0	13.1	292.0	17.5	452.5	27.2	510.9	30.7	583.9	35.0
	3.000	1.7373	145	173.7	10.4	260.6	15.6	347.5	20.8	538.6	32.3	608.1	36.5	694.9	41.7
	3.250	2.0389	123	203.9	12.2	305.8	18.4	407.8	24.5	632.1	37.9	713.6	42.8	815.6	48.9
W250L	3.500	2.3647	106	236.5	14.2	354.7	21.3	472.9	28.4	733.0	44.0	827.6	49.7	945.9	56.8
	3.750	2.7145	93	271.5	16.3	407.2	24.4	542.9	32.6	841.5	50.5	950.1	57.0	1,085.8	65.1
	4.000	3.0886	81	308.9	18.5	463.3	27.8	617.7	37.1	957.5	57.4	1,081.0	64.9	1,235.4	74.1
	4.250	3.4867	72	348.7	20.9	523.0	31.4	697.3	41.8	1,080.9	64.9	1,220.3	73.2	1,394.7	83.7
	4.500	3.9089	64	390.9	23.5	586.3	35.2	781.8	46.9	1,211.8	72.7	1,368.1	82.1	1,563.6	93.8

*API Speed

General Notes

1. Capacities shown are based on 100 percent volumetric efficiency. Actual capacities are lower, based on discharge pressure and fluid compressibility.
2. API-674 and NACE-compliant designs are available; consult Weatherford for details and exceptions to these standards.
3. For operation below 100 RPM, an internal or external auxiliary lubrication system is required.
4. Standard plunger sizes are shown, however other sizes are available upon request.
5. Spherical valves must be installed when using 4.00 in. plungers.