

W60 Triplex Pump

Pump Specifications

Rated (HP, kW)	60	45
Stroke length (in., mm)	3	76
Maximum discharge pressure (PSI, Bar)		
W60H	5,000	345
W60M	3,200	221
W60L	1,500	103
Rated rod load (lb, kg)	4,750	2,155
API-674 speed, RPM	400	
Maximum speed, RPM	500	
Minimum speed, RPM	200*	
Crankshaft dimensions (in., mm)		
Diameter	3.00	76
Length (both sides)	5.12	130
Keyway, width × depth (in., mm)	.75 × .38	19 × 10
Oil capacity (gal, l)		
Pump	2.0	7.6
Reducer	1.0	3.8
Weight (lb, kg); estimates only		
Pump		
W60H	1,220	554
W60M	1,160	527
W60L	1,120	509
Reducer		
	350	159
Mechanical efficiency	90%	

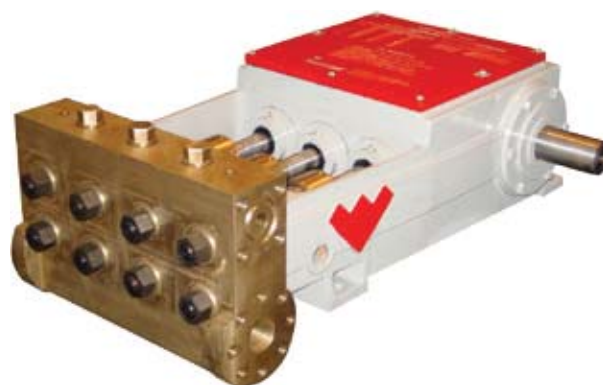
* can be reduced to 50 rpm with the addition of an auxiliary lube (slow speed) kit

Flange Connections

Pump Model	Discharge Connection Sizes (in., mm)	Suction Connection Sizes (in., mm)
W60H	1.25 (31.8) ANSI 2500 RJ	2.5 (63.5) ANSI 300 FF
W60M	1.5 (38.1) API 5000 RJ	2.5 (63.5) ANSI 150 FF
W60L (flanged)	2 (50.8) API 2000 RJ	3 (76.2) ANSI 150 FF
W60L (threaded)	2 (50.8) NPT	3 (76.2) NPT

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 (ratios)
 - 2.34:1
 - 3.03:1
 - 3.50:1
 - 2.77:1
- Packing lubricators
- Customized plunger packing arrangements
- Complete pump packages
- Ported stuffing boxes and leak detection systems offered for H₂S or light fluids
- An external auxiliary lube kit (slow speed kit) allows pump to be turned down to 50 rpm and is required for speeds below 200 rpm.

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Performance Ratings

Model (standard)	Plunger Diameter (in.)	Gallons Per Revolution	Maximum Pressure PSI	200 RPM		300 RPM		350 RPM		400 RPM* API 674		450 RPM		500 RPM	
				GPM	BPD	BPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
W60H	1.000	0.0306	5,000	6.1	210	9.2	315	10.7	367	12.2	420	13.8	472	15.3	525
	1.125	0.0387	4,780	7.7	266	11.6	398	13.6	465	15.5	531	17.4	598	19.4	664
	1.250	0.0478	3,870	9.6	328	14.3	492	16.7	574	19.1	656	21.5	738	23.9	820
	1.375	0.0579	3,200	11.6	397	17.4	595	20.2	694	23.1	793	26.0	893	28.9	992
W60M	1.375	0.0579	3,200	11.6	397	17.4	595	20.2	694	23.1	793	26.0	893	28.9	992
	1.500	0.0688	2,690	13.8	472	20.7	708	24.1	826	27.5	944	31.0	1,062	34.4	1,180
	1.625	0.0808	2,290	16.2	554	24.2	831	28.3	970	32.3	1,108	36.4	1,247	40.4	1,385
	1.750	0.0937	1,970	18.7	643	28.1	964	32.8	1,125	37.5	1,285	42.2	1,446	46.9	1,606
W60L	2.000	0.1224	1,500	24.5	839	36.7	1,259	42.8	1,469	49.0	1,679	55.1	1,888	61.2	2,098
	2.250	0.1549	1,190	31.0	1,062	46.5	1,593	54.2	1,859	62.0	2,125	69.7	2,390	77.5	2,656
	2.500	0.1912	970	38.2	1,311	57.4	1,967	66.9	2,295	76.5	2,623	86.1	2,951	95.6	3,279
	2.750	0.2314	800	46.3	1,587	69.4	2,380	81.0	2,777	92.6	3,174	104.1	3,570	115.7	3,967
	3.000	0.2754	670	55.1	1,888	82.6	2,833	96.4	3,305	110.2	3,777	123.9	4,249	137.7	4,721

Model (metric)	Plunger Diameter (in.)	Litres Per Revolution	Maximum Pressure BAR	200 RPM		300 RPM		350 RPM		400 RPM* API 674		450 RPM		500 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
W60H	1.000	0.1158	345	23.2	1.4	34.7	2.1	40.5	2.4	46.3	2.8	52.1	3.1	57.9	3.5
	1.125	0.1466	329	29.3	1.8	44.0	2.6	51.3	3.1	58.6	3.5	66.0	4.0	73.3	4.4
	1.250	0.1810	267	36.2	2.2	54.3	3.3	63.3	3.8	72.4	4.3	81.4	4.9	90.5	5.4
	1.375	0.2190	220	43.8	2.6	65.7	3.9	76.6	4.6	87.6	5.3	98.5	5.9	109.5	6.6
W60M	1.375	0.2190	220	43.8	2.6	65.7	3.9	76.6	4.6	87.6	5.3	98.5	5.9	109.5	6.6
	1.500	0.2606	185	52.1	3.1	78.2	4.7	91.2	5.5	104.2	6.3	117.3	7.0	130.3	7.8
	1.625	0.3058	158	61.2	3.7	91.8	5.5	107.0	6.4	122.3	7.3	137.6	8.3	152.9	9.2
	1.750	0.3547	136	70.9	4.3	106.4	6.4	124.1	7.4	141.9	8.5	159.6	9.6	177.4	10.6
W60L	2.000	0.4633	104	92.7	5.6	139.0	8.3	162.1	9.7	185.3	11.1	208.5	12.5	231.6	13.9
	2.250	0.5863	82	117.3	7.0	175.9	10.6	205.2	12.3	234.5	14.1	263.9	15.8	293.2	17.6
	2.500	0.7239	67	144.8	8.7	217.2	13.0	253.4	15.2	289.6	17.4	325.7	19.5	361.9	21.7
	2.750	0.8759	55	175.2	10.5	262.8	15.8	306.6	18.4	350.4	21.0	394.2	23.6	437.9	26.3
	3.000	1.0424	46	208.5	12.5	312.7	18.8	364.8	21.9	417.0	25.0	469.1	28.1	521.2	31.3

*API Speed

General Notes

- Capacities shown are based on 100 percent volumetric efficiency. Actual capacities are lower, based on discharge pressure and fluid compressibility.
- API-674 and NACE-compliant designs are available; consult Weatherford for details and exceptions to these standards.
- For operation below 200 RPM, an external auxiliary lubrication system is required.
- Standard plunger sizes are shown, however other sizes are available upon request.