

PRODUCTION

RECIPROCATING PLUNGER PUMPS

Maximizing high-pressure
pumping efficiency and
reliability


Weatherford®

RELIABLE RECIPROCATING PUMPS

Leverage field-proven, highly versatile pumps for any high-pressure application

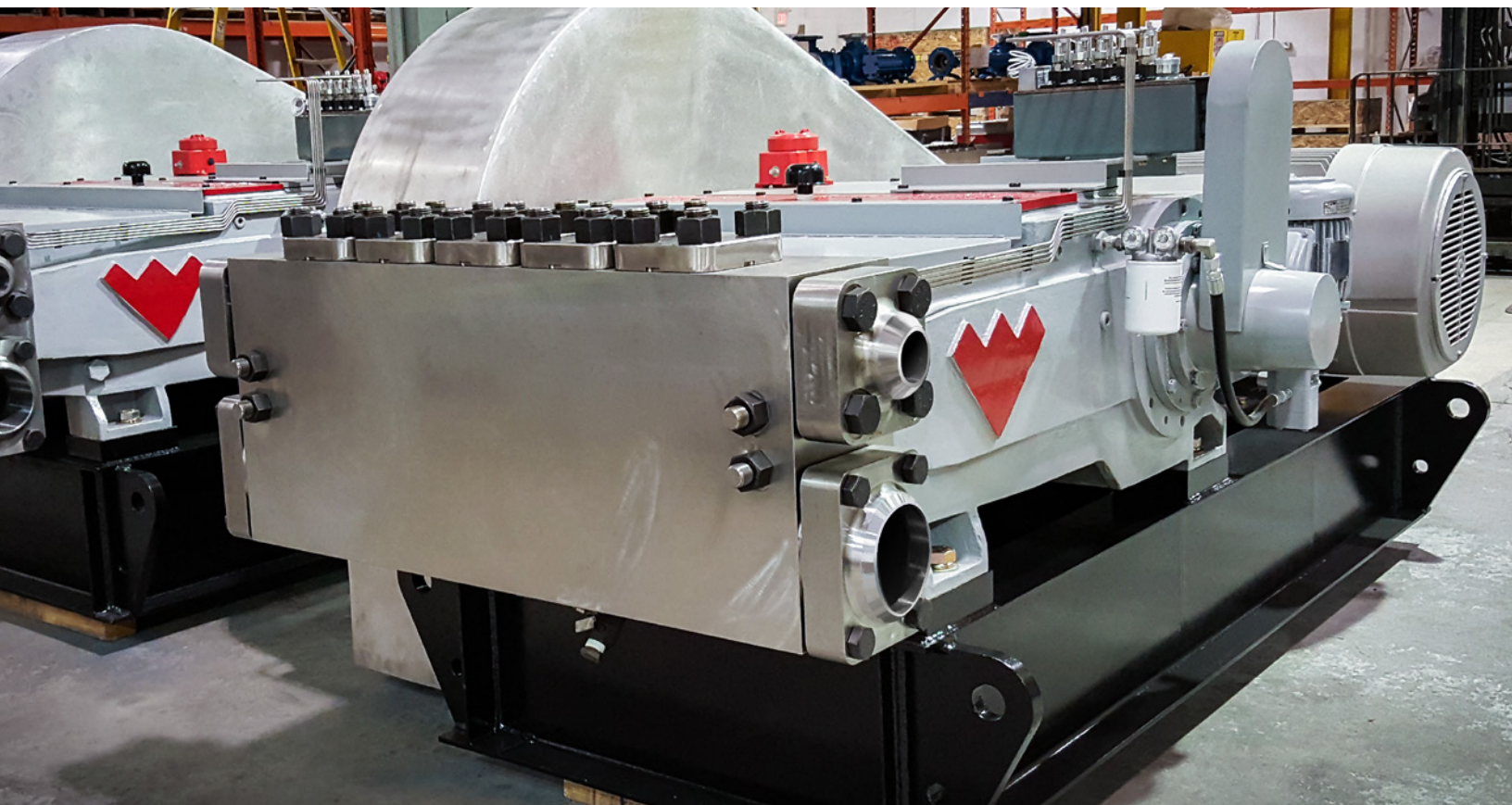
High-pressure pumping applications can seem deceptively simple. However, real-world complexities due to corrosive, flammable, and abrasive fluids introduce the prospect of failures, downtime, and high cost of ownership.

Ideal for these challenging applications, plunger pumps offer field-proven durability, efficiency, and energy savings when compared to centrifugal-style pumps.

Even in applications where flow or pressure requirements may change over time, these pumps deliver mechanical efficiencies of more than 90%, significantly reducing power requirements and operating costs. No other pump can match this performance.

Our reciprocating plunger pumps maximize uptime for your operation. With a field-proven reputation for quality, Weatherford provides a broad range of reliable, easy-to-use reciprocating plunger pumps.

Backed by our global team of technicians, these pumps are ready to meet any industrial flow and pressure requirement. Our single-acting, continuous-duty models are available in dependable, cost-effective triplex and smooth-running quintuplex designs. Manufactured with durable, corrosion-resistant materials, we deliver ready-to-run units that simplify pump operation and minimize downtime, even in harsh environments.



Superior materials and smart manufacturing enhance performance

Carbon-steel fluid ends are well suited for hydrocarbon and industrial applications. Designed for highly corrosive fluids applications such as high-salinity, produced-water disposals, our duplex, stainless-steel fluid ends offer higher strength and superior corrosion resistance over the nickel-aluminum-bronze offered by many competitors.

Our pumps also benefit from world-class manufacturing techniques that incorporate forged materials for most pressure-containing sections of the pump, which eliminates casting flaws. Combined with superior materials, we deliver reliable reciprocating-plunger-pump performance even when transporting fluids high in hydrogen sulfide or salinity.

WE SERVE A **WIDE RANGE OF INDUSTRIES** WORLDWIDE

AGRICULTURE AND FOOD 	 MINING
HYDROCARBON REFINEMENT 	 OIL AND GAS
CHEMICAL INJECTION 	 PROCESS INDUSTRIES
COMMERCIAL CLEANING 	 SEAWATER DESALINATION
GOVERNMENT AND MILITARY 	 AND MORE

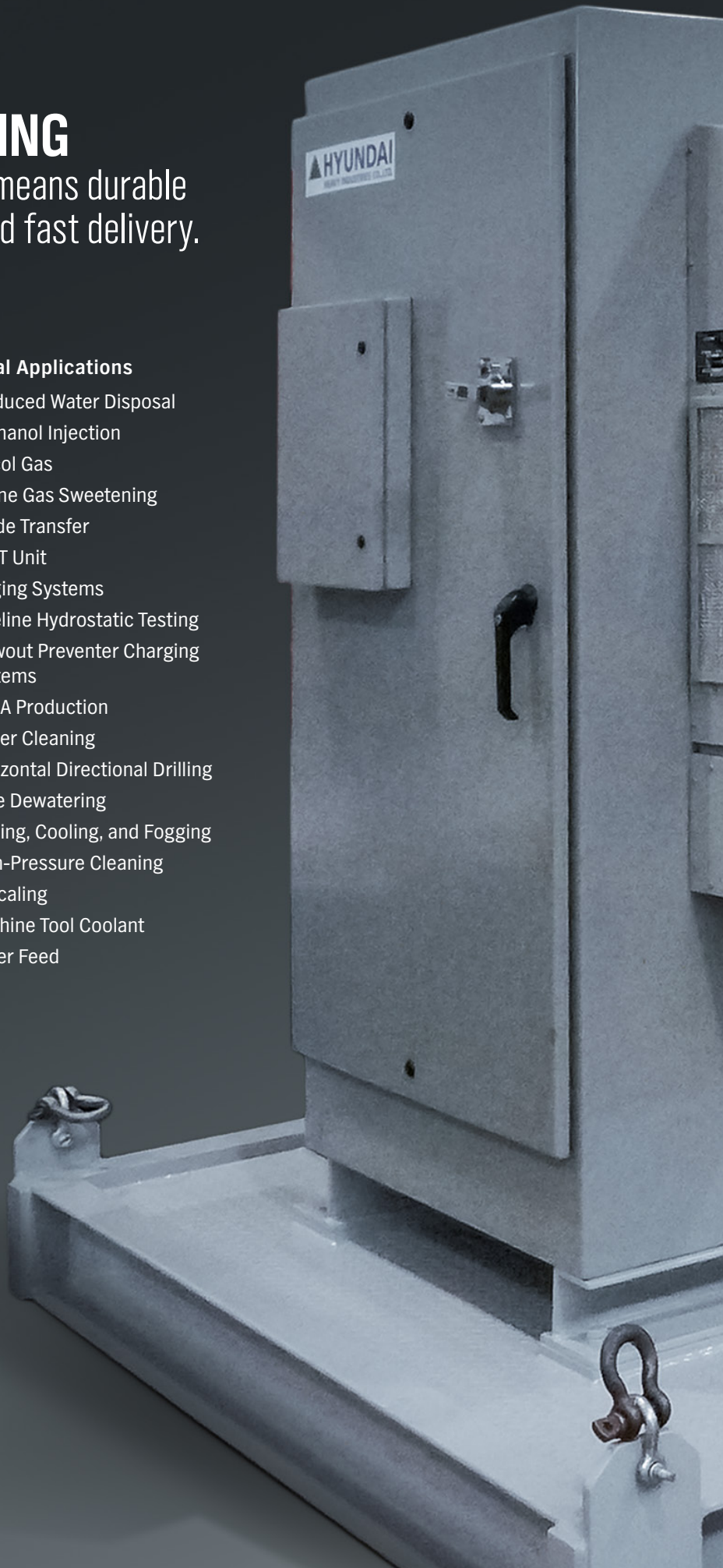
PRIMED FOR PUMPING

The Weatherford advantage means durable design, superior materials, and fast delivery.

- Pumps can be easily reconfigured for changing flow or pressure requirements, simply by changing the size of the plungers.
- We offer quick turnaround and deliver your pump in 4 to 6 weeks or less.
- We use stronger, more corrosion-resistant duplex stainless steel and carbon stainless steel rather than outdated nickel-aluminum-bronze.
- Our pumps operate at 85 to 90% energy efficiency on hydraulic power, which boosts your savings on electricity or fuel.
- The flow rate of our pumps is directionally proportional to running speed, which enables easy and precise output control.
- Our pumps are durable and require minimal maintenance that includes periodic replacement of inexpensive consumable parts. Performed in the field or at your facility, our simple maintenance recommendations require no specialized training or tools.
- Many of our pumps are available with optional bolt-on gear reducers to enable efficient pump integration within engines or motors.

Typical Applications

- Produced Water Disposal
- Methanol Injection
- Glycol Gas
- Amine Gas Sweetening
- Crude Transfer
- LACT Unit
- Pigging Systems
- Pipeline Hydrostatic Testing
- Blowout Preventer Charging Systems
- UREA Production
- Sewer Cleaning
- Horizontal Directional Drilling
- Mine Dewatering
- Misting, Cooling, and Fogging
- High-Pressure Cleaning
- Descaling
- Machine Tool Coolant
- Boiler Feed





OUR PUMPS ARE AVAILABLE WITH THE FOLLOWING OPTIONS:

Integral Gear Reducers

Leak-Detection Ports

Packing Lubricators

Abrasion-Resistant Valves

Power End Lubricators

Ceramic or Rokide Plungers

Complete Pump Packages

PERFORMANCE RANGES

This table highlights the performance envelope and basic specifications of our standard pump models.

Standard pumps are suitable for applications ranging from 0° to 180°F (-18° to 82°C). Depending upon materials and design, specialized pumps can operate in applications ranging from -100° to 350°F (-73° to 177°C)—or higher in some circumstances.

Contact us about specialized applications such as well service or any horizontal-directional drilling needs.

Pump Model	Rated Power (HP)	Pump Type	Fluid Cylinder	Flowrate	Maximum Pressure	Stroke Length	Weight
T5	5	Triplex	Low (L)	82 to 516 B/D 2 to 15 gal/min (9 to 57 L/min)	980 psi (68 bar)	1.38 in. (35.0 mm)	210 lb (95 kg)
			Medium (M)	33 to 358 B/D 1 to 10 gal/min (4 to 40 L/min)	2,410 psi (166 bar)		
			High (H)	17 to 129 B/D 0 to 4 gal/min (2 to 14 L/min)	4,730 psi (326 bar)		
T10	10		L	94 to 995 B/D 3 to 29 gal/min (10 to 110 L/min)	1,780 psi (123 bar)	1.58 in. (40.1 mm)	330 lb (150 kg)
			H	38 to 389 B/D 1 to 11 gal/min (4 to 43 L/min)	4,400 psi (303 bar)		
T25	25		L	227 to 2,218 B/D 7 to 65 gal/min (25 to 45 L/min)	1,650 psi (114 bar)	2.36 in. (59.9 mm)	615 lb (279 kg)
			H	74 to 799 B/D 2 to 23 gal/min (8 to 88 L/min)	5,060 psi (349 bar)		
T40	40		L	241 to 2,907 B/D 7 to 85 gal/min (27 to 321 L/min)	2,290 psi (158 bar)	2.95 in. (74.9 mm)	945 lb (429 kg)
			M	177 to 1,046 B/D 5 to 31 gal/min (20 to 116 L/min)	3,110 psi (214 bar)		
			H	79 to 727 B/D 2 to 21 gal/min (9 to 80 L/min)	4,480 psi (309 bar)		
W60	60		L	839 to 4,721 B/D 24 to 138 gal/min (93 to 521 L/min)	1,500 psi (103 bar)	3 in. (76.2 mm)	1,120 lb (508 kg)
			M	397 to 2,098 B/D 12 to 61 gal/min (44 to 232 L/min)	3,200 psi (221 bar)		1,160 lb (526 kg)
			H	210 to 992 B/D 6 to 29 gal/min (23 to 109 L/min)	5,000 psi (345 bar)		1,220 lb (553 kg)
W80	80		L	839 to 5,975 B/D 24 to 174 gal/min (93 to 660 L/min)	2,020 psi (139 bar)	3 in. (76.2 mm)	1,250 lb (567 kg)
			M	397 to 2,098 B/D 12 to 61 gal/min (44 to 232 L/min)	4,270 psi (294 bar)		1,190 lb (540 kg)
			H	328 to 992 B/D 10 to 29 gal/min (36 to 109 L/min)	5,000 psi (345 bar)		1,150 lb (522 kg)
W100	100		L	1,062 to 7,170 B/D 31 to 209 gal/min (117 to 792 L/min)	1,660 psi (114 bar)	4 in. (101.6 mm)	3,150 lb (1,429 kg)
			M	554 to 2,843 B/D 16 to 83 gal/min (61 to 314 L/min)	3,180 psi (219 bar)		3,100 lb (1,406 kg)
			H	328 to 1,928 B/D 10 to 56 gal/min (36 to 213 L/min)	5,000 psi (345 bar)		3,200 lb (1,451 kg)
W130	130		L	1,311 to 8,272 B/D 38 to 241 gal/min (145 to 913 L/min)	1,750 psi (121 bar)	4 in. (101.6 mm)	3,210 lb (1,456 kg)
			M	738 to 3,551 B/D 22 to 104 gal/min (81 to 392 L/min)	3,110 psi (214 bar)		3,160 lb (1,433 kg)
			H	397 to 1,928 B/D 12 to 56 gal/min (44 to 213 L/min)	5,000 psi (345 bar)		3,260 lb (1,479 kg)
W165	165		L	1,322 to 11,191 B/D 39 to 326 gal/min (146 to 1,236 L/min)	1,650 psi (114 bar)	5 in. (127 mm)	4,037 lb (1,831 kg)
			M	699 to 5,289 B/D 20 to 154 gal/min (77 to 584 L/min)	3,120 psi (215 bar)		4,132 lb (1,911 kg)
			H	393 to 2,798 B/D 11 to 82 gal/min (43 to 309 L/min)	5,000 psi (345 bar)		4,213 lb (1,911 kg)
W200	200		L	1,322 to 11,191 B/D 39 to 326 gal/min (146 to 1,236 L/min)	1,680 psi (116 bar)	5 in. (127 mm)	4,842 lb (2,196 kg)
			M	699 to 5,289 B/D 20 to 154 gal/min (77 to 584 L/min)	3,350 psi (231 bar)		4,792 lb (2,174 kg)
			H	273 to 2,798 B/D 8 to 82 gal/min (30 to 309 L/min)	5,000 psi (345 bar)		4,707 lb (2,135 kg)
W250	250		L	2,142 to 14,163 B/D 62 to 413 gal/min (236 to 1,564 L/min)	1,540 psi (106 bar)	5 in. (127 mm)	4,588 lb (2,081 kg)
			M	1,093 to 7,388 B/D 32 to 215 gal/min (121 to 816 L/min)	3,030 psi (209 bar)		4,958 lb (2,249 kg)
		H	615 to 3,541 B/D 18 to 103 gal/min (68 to 391 L/min)	5,000 psi (345 bar)	4,932 lb (2,237 kg)		
W300	300	L	2,204 to 18,651 B/D 65 to 544 gal/min (243 to 2,059 L/min)	1,650 psi (114 bar)	5.25 in. (133.4 mm)	7,000 lb (3,175 kg)	
		M	1,166 to 8,816 B/D 34 to 257 gal/min (129 to 973 L/min)	3,000 psi (207 bar)		6,750 lb (3,062 kg)	
		H	656 to 4,663 B/D 19 to 136 gal/min (72 to 515 L/min)	5,000 psi (345 bar)		6,840 lb (3,103 kg)	
W435	435	L	1,743 to 24,786 B/D 51 to 723 gal/min (192 to 2,737 L/min)	1,660 psi (114 bar)	5.25 in. (133.4 mm)	7,150 lb (3,243 kg)	
		M	956 to 12,928 B/D 28 to 377 gal/min (106 to 1,427 L/min)	3,020 psi (208 bar)		7,060 lb (3,202 kg)	
		H	538 to 6,196 B/D 16 to 181 gal/min (59 to 684 L/min)	6,170 psi (425 bar)		7,010 lb (3,180 kg)	
W555	560	L	2,369 to 25,966 B/D 69 to 757 gal/min (262 to 2,867 L/min)	2,290 psi (158 bar)	7.5 in. (190.5 mm)	13,700 lb (6,214 kg)	
		M	992 to 11,541 B/D 29 to 337 gal/min (109 to 1,274 L/min)	5,470 psi (377 bar)		13,000 lb (5,897 kg)	
W950	950	L	3,948 to 43,277 B/D 115 to 1,262 gal/min (436 to 4,778 L/min)	2,290 psi (158 bar)	7.5 in. (190.5 mm)	18,400 lb (8,346 kg)	
		M	1,653 to 19,234 B/D 48 to 561 gal/min (182 to 2,124 L/min)	5,470 psi (377 bar)		18,000 lb (8,165 kg)	

Minimum Plunger Size	Maximum Plunger Size	Minimum Rated Speed	API-674 Rated Speed	Maximum Rated Speed	Minimum Calculated Flow	API Calculated Flow	Maximum Calculated Flow	Inlet Connection	Outlet Connection		
1.375 in. (34.9 mm)	1.5 in. (38.1 mm)	90 rpm	350 rpm	475 rpm	2.4 gal/min (9 L/min)	11.1 gal/min (42 L/min)	15.0 gal/min (56 L/min)	1.5 in.	1 in.		
0.875 in. (22.2 mm)	1.25 in. (31.7 mm)				1.0 gal/min (3 L/min)	7.7 gal/min (29 L/min)	10.4 gal/min (39 L/min)				
0.625 in. (15.8 mm)	0.75 in. (19 mm)				0.5 gal/min (1 L/min)	2.8 gal/min (10 L/min)	3.8 gal/min (14 L/min)				
1.375 in. (34.9 mm)	2 in. (50.8 mm)		325 rpm	450 rpm	2.7 gal/min (10 L/min)	21.0 gal/min (79 L/min)	29.0 gal/min (109 L/min)	2 in.			
0.875 in. (22.2 mm)	1.25 in. (31.7 mm)				1.1 gal/min (4 L/min)	8.2 gal/min (31 L/min)	11.3 gal/min (42 L/min)	1.5 in.			
1.75 in. (44.4 mm)	2.5 in. (63.5 mm)		300 rpm	430 rpm	6.6 gal/min (24 L/min)	45.1 gal/min (170 L/min)	64.7 gal/min (244 L/min)	3 in.		1.5 in.	
1 in. (25.4 mm)	1.5 in. (38.1 mm)	2.2 gal/min (8 L/min)			16.2 gal/min (61 L/min)	23.3 gal/min (88 L/min)	2 in.	1 in.			
1.75 in. (44.4 mm)	2.5 in. (63.5 mm)	240 rpm	920 rpm	1,420 rpm	7.0 gal/min (26 L/min)	54.9 gal/min (207 L/min)	84.8 gal/min (321 L/min)	3 in.	1.5 in.		
1.5 in. (38.1 mm)	1.5 in. (38.1 mm)				5.2 gal/min (19 L/min)	19.8 gal/min (74 L/min)	30.5 gal/min (115 L/min)	2 in.	1 in.		
1 in. (25.4 mm)	1.25 in. (31.7 mm)				2 gal/min (8 L/min)	13 gal/min (51 L/min)	21 gal/min (80 L/min)				
2 in. (50.8 mm)	3 in. (76.2 mm)	225 ¹ rpm	400 rpm	500 rpm	28 gal/min (104 L/min)	110 gal/min (417 L/min)	137 gal/min (521 L/min)	3 in.	2 in.		
1.375 in. (34.9 mm)	2 in. (50.8 mm)				13 gal/min (49 L/min)	49 gal/min (185 L/min)	61 gal/min (231 L/min)	2.5 in.	1.5 in.		
1 in. (25.4 mm)	1.375 in. (34.9 mm)				7 gal/min (26 L/min)	23 gal/min (87 L/min)	28 gal/min (109 L/min)			1.25 in.	
2 in. (50.8 mm)	3.375 in. (85.7 mm)				28 gal/min (104 L/min)	139 gal/min (527 L/min)	174 gal/min (659 L/min)	3 in.	2 in.		
1.375 in. (34.9 mm)	2 in. (50.8 mm)				13 gal/min (49 L/min)	49 gal/min (185 L/min)	61 gal/min (231 L/min)	2.5 in.	1.5 in.		
1.25 in. (31.7 mm)	1.375 in. (34.9 mm)				11 gal/min (41 L/min)	23 gal/min (87 L/min)	28 gal/min (109 L/min)			1.25 in.	
2.25 in. (57.1 mm)	3.375 in. (85.7 mm)	200 ¹ rpm	350 rpm	450 rpm	41 gal/min (156 L/min)	162 gal/min (615 L/min)	209 gal/min (791 L/min)	5 in.	2.5 in.		
1.625 in. (41.2 mm)	2.125 in. (53.9 mm)				22 gal/min (82 L/min)	64 gal/min (244 L/min)	82 gal/min (313 L/min)	3 in.	1.5 in.		
1.25 in. (31.7 mm)	1.75 in. (44.4 mm)				13 gal/min (48 L/min)	43 gal/min (165 L/min)	56 gal/min (212 L/min)				
2.5 in. (63.5 mm)	3.625 in. (92 mm)				51 gal/min (193 L/min)	187 gal/min (710 L/min)	241 gal/min (913 L/min)	5 in.	2.5 in.		
1.875 in. (47.6 mm)	2.375 in. (60.3 mm)				29 gal/min (109 L/min)	80 gal/min (304 L/min)	103 gal/min (392 L/min)	3 in.	1.5 in.		
1.375 in. (34.9 mm)	1.75 in. (44.4 mm)				15 gal/min (58 L/min)	43 gal/min (165 L/min)	56 gal/min (212 L/min)				
2.75 in. (69.8 mm)	4 in. (101.6 mm)	200 ¹ rpm	310 rpm	400 rpm	38 gal/min (146 L/min)	253 gal/min (957 L/min)	326 gal/min (1,235 L/min)	6 in.	3 in.		
2 in. (50.8 mm)	2.75 in. (69.8 mm)				20 gal/min (77 L/min)	119 gal/min (452 L/min)	154 gal/min (584 L/min)	4 in.	2 in.		
1.5 in. (38.1 mm)	2 in. (50.8 mm)				11 gal/min (43 L/min)	63 gal/min (239 L/min)	81 gal/min (308 L/min)	3 in.			
2.75 in. (69.8 mm)	4 in. (101.6 mm)				38 gal/min (146 L/min)	253 gal/min (957 L/min)	326 gal/min (1,235 L/min)	6 in.	3 in.		
2 in. (50.8 mm)	2.75 in. (69.8 mm)				20 gal/min (77 L/min)	119 gal/min (452 L/min)	154 gal/min (584 L/min)	4 in.	2 in.		
1.25 in. (31.7 mm)	2 in. (50.8 mm)			8 gal/min (30 L/min)	63 gal/min (239 L/min)	81 gal/min (308 L/min)	3 in.				
3.5 in. (88.9 mm)	4.5 in. (114.3 mm)			100 ¹ rpm	300 rpm	400 rpm	62 gal/min (236 L/min)	320 gal/min (1,212 L/min)	413 gal/min (1,563 L/min)	6 in.	3 in.
2.5 in. (63.5 mm)	3.25 in. (82.5 mm)						31 gal/min (120 L/min)	167 gal/min (632 L/min)	215 gal/min (815 L/min)	4 in.	2 in.
1.875 in. (47.6 mm)	2.25 in. (57.1 mm)						17 gal/min (67 L/min)	80 gal/min (302 L/min)	103 gal/min (391 L/min)	3 in.	
2.75 in. (69.8 mm)	4 in. (101.6 mm)						64 gal/min (243 L/min)	421 gal/min (1,595 L/min)	544 gal/min (2,059 L/min)	8 in.	4 in.
2 in. (50.8 mm)	2.75 in. (69.8 mm)	34 gal/min (128 L/min)	199 gal/min (754 L/min)				257 gal/min (973 L/min)	6 in.	3 in.		
1.5 in. (38.1 mm)	2 in. (50.8 mm)	19 gal/min (72 L/min)	105 gal/min (398 L/min)	136 gal/min (514 L/min)	2 in.						
3.375 in. (85.7 mm)	4.5 in. (114.3 mm)	100 ¹ rpm	225 rpm	275 rpm	51 gal/min (192 L/min)	542 gal/min (2,052 L/min)	723 gal/min (2,737 L/min)	8 in.	4 in.		
2.5 in. (63.5 mm)	3.25 in. (82.5 mm)				28 gal/min (106 L/min)	283 gal/min (1,071 L/min)	377 gal/min (1,427 L/min)	6 in.	3 in.		
1.875 in. (47.6 mm)	2.25 in. (57.1 mm)				16 gal/min (59 L/min)	136 gal/min (513 L/min)	181 gal/min (684 L/min)				
4.25 in. (107.9 mm)	6 in. (152.4 mm)				69 gal/min (261 L/min)	619 gal/min (2,345 L/min)	757 gal/min (2,866 L/min)	10 in.	4 in.		
2.75 in. (69.8 mm)	4 in. (101.6 mm)	100 ¹ rpm	225 rpm	275 rpm	28 gal/min (109 L/min)	275 gal/min (1,042 L/min)	336 gal/min (1,274 L/min)	6 in.	3 in.		
4.25 in. (107.9 mm)	6 in. (152.4 mm)				115 gal/min (435 L/min)	1,032 gal/min (3,909 L/min)	1,262 gal/min (4,777 L/min)	10 in.	4 in.		
2.75 in. (69.8 mm)	4 in. (101.6 mm)				48 gal/min (182 L/min)	459 gal/min (1,737 L/min)	561 gal/min (2,123 L/min)	8 in.	4 in.		

¹Minimum 50 rpm with optional power-end lube system and Weatherford application approval.



RELIABLE PUMPING POWER

Weatherford reciprocating plunger pumps maximize your high-pressure pumping efficiency and reliability. To see how our technologies can work for you, visit weatherford.com.

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