

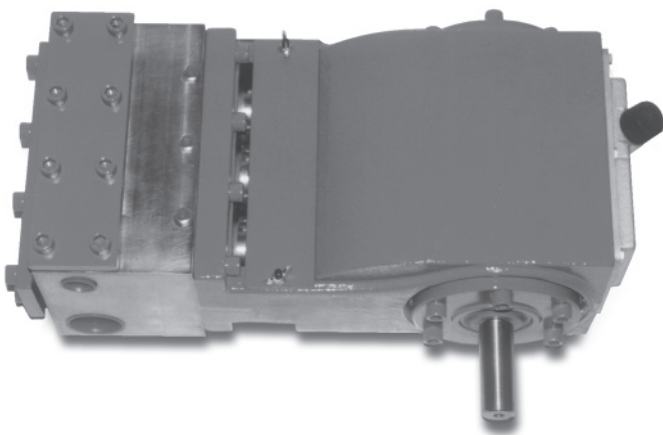
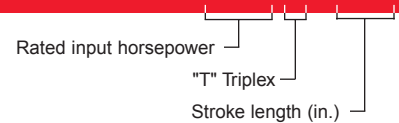
ROTATING RIGHT

NATIONAL OILWELL 15T-15 TECHNICAL DATA SHEET



Triplex Plunger Pump

15T-15



This 1-1/2" stroke pump is designed for a variety of fluid transfer applications.

Field Connections in. (mm)

Pump Model	Discharge Connection Size	Suction Connection Size
15T-15	3/4" (19.05) FNP Threaded	1-1/2" (38.1) FNP Threaded

Dimensions

Pump Type	Length	Width	Height
15T-15	18-5/16"	9-1/2"	7 1/4"

Pump Specifications

Pump Size (Max. Plunger Diameter x Stroke) in. (mm) 1-1/2 x 1-1/2 (38.1 x 38.1)
 Rated BHP At 750 RPM (Kw) 15 (11.25)
 Rated Plunger Load, pounds (Kg)..... 1,600 (720)

Maximum Working Pressure: PSI (kPa) 5,215 (25,838)

Crankshaft Extension: in. (mm) 1 1/8 (28.58)

Weight: - Lbs. (Kg)

Pump Only On Wood Shipping Skids..... 115 (52)

Standard Equipment

- Aluminum Bronze Fluid End
- Aluminum Bronze Valve Covers
- Aluminum Bronze Stuffing Boxes & Nuts
- Bronze Stuffing Box Internals
- Ceramic or Metal Plungers
- General Service Plunger Packing
- Stainless Steel Intermediate Rods
- Chamber Cover
- Crankcase Breather

Optional Equipment

- Alternate Fluid End Materials
- Alternate Fluid End Valve Styles
- Custom Designs For Specialized Applications

Accessories

- Packing Lubricator
- Pulsation Dampeners
- Relief Valves
- Valve Service Kit
- Complete Unitization Services

Continuous Duty Performance Data (Volumes Indicated Are Displacement of Incompressible Fluid)

English Units

Plunger Dia. In.	Plunger Area (Sq. In.)	BPD Per RPM	GPM Per RPM	Max. Press. PSI	100 RPM		150 RPM		200 RPM		250 RPM		300 RPM		350 RPM		400 RPM		
					BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
15T-15																			
3/4	0.4418	0.2952	0.0086	3622	30	0.86	44	1.29	59	1.72	74	2.15	89	2.58	103	3.01	118	3.44	
1	0.7854	0.5248	0.0153	2037	52	1.53	79	2.3	105	3.06	131	3.83	157	4.59	184	5.36	210	6.12	
1 1/4	1.2272	0.82	0.0239	1304	82	2.39	123	3.59	164	4.78	205	5.98	246	7.17	287	8.37	328	9.56	
1 1/2	1.7672	1.1808	0.0344	905	118	3.44	177	5.16	236	6.89	295	8.61	354	10.33	413	12.05	472	13.77	
Brake Horsepower Required:					2		3		4		5		6		7		8		

English Units (cont.)

Plunger Dia. In.	Plunger Area (Sq. In.)	BPD Per RPM	GPM Per RPM	Max. Press. PSI	450 RPM		500 RPM		550 RPM		600 RPM		650 RPM		700 RPM		750 RPM		
					BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
15T-15																			
3/4	0.4418	0.2952	0.0086	3622	133	3.87	148	4.3	162	4.73	177	5.16	192	5.59	207	6.02	221	6.45	
1	0.7854	0.5248	0.0153	2037	236	6.89	262	7.65	289	8.42	315	9.18	341	9.95	367	10.71	394	11.48	
1 1/4	1.2272	0.82	0.0239	1304	369	10.76	410	11.95	451	13.15	492	14.34	533	15.54	574	16.73	615	17.93	
1 1/2	1.7672	1.1808	0.0344	905	531	15.49	590	17.21	649	18.93	708	20.66	768	22.38	827	24.1	886	25.82	
Brake Horsepower Required:					9		10		11		12		13		14		15		

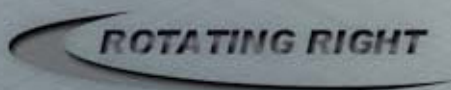
Metric Units

Plunger Dia. mm	Plunger Area Sq. cm.	M ³ /D Per RPM	L/Min. Per RPM	Max. Press. kPa	100 RPM		150 RPM		200 RPM		250 RPM		300 RPM		350 RPM		400 RPM		
					M ³ /D	L/Min.	M ³ /D	L/Min.	M ³ /D	L/Min.	M ³ /D	L/Min.	M ³ /D	GPM	M ³ /D	L/Min.	M ³ /D	L/Min.	
15T-15																			
19	2.8502	0.0469	0.0326	24,973	5	3.26	7	4.89	9	6.51	12	8.14	14	9.77	16	11.4	19	13.03	
25	5.0671	0.0834	0.0579	14,045	8	5.79	13	8.69	17	11.58	21	14.48	25	17.37	29	20.27	33	23.16	
32	7.9174	0.1304	0.0905	8,991	13	9.05	20	13.57	26	18.1	33	22.62	39	27.15	46	31.67	52	36.19	
38	11.401	0.1877	0.1303	6,240	19	13.03	28	19.54	38	26.06	47	32.57	56	39.09	66	45.6	75	52.12	
Kilowatts Required:					1.5		2.3		3		3.8		4.5		5.3		6		

Metric Units (cont.)

Plunger Dia. mm	Plunger Area Sq. cm.	M ³ /D Per RPM	L/Min. Per RPM	Max. Press. kPa	450 RPM		500 RPM		550 RPM		600 RPM		650 RPM		700 RPM		750 RPM		
					M ³ /D	L/Min.	M ³ /D	L/Min.	M ³ /D	L/Min.	M ³ /D	L/Min.	M ³ /D	GPM	M ³ /D	L/Min.	M ³ /D	L/Min.	
15T-15																			
19	2.8502	0.0469	0.0326	24,973	21	14.66	23	16.29	26	17.92	28	19.54	31	21.17	33	22.8	35	24.43	
25	5.0671	0.0834	0.0579	14,045	38	26.06	42	28.96	46	31.85	50	34.75	54	37.64	58	40.54	63	43.43	
32	7.9174	0.1304	0.0905	8,991	59	40.72	65	45.24	72	49.77	78	54.29	85	58.82	91	63.34	98	67.86	
38	11.401	0.1877	0.1303	6,240	84	58.63	94	65.15	103	71.66	113	78.18	122	84.69	131	91.21	141	97.72	
Kilowatts Required:					6.8		7.5		8.3		9		9.8		10.5		11.3		

Volume is based on 100% volumetric efficiency. Brake horsepower is based on 90% mechanical efficiency



Head Office:
6120 Davies Road
Edmonton, AB
T6E 4M9

Phone: (780) 485-2010 • Toll Free: (866) 707-7867
Fax: (780) 485-1938
• Calgary • Drayton Valley • Lethbridge
www.rotatingright.com