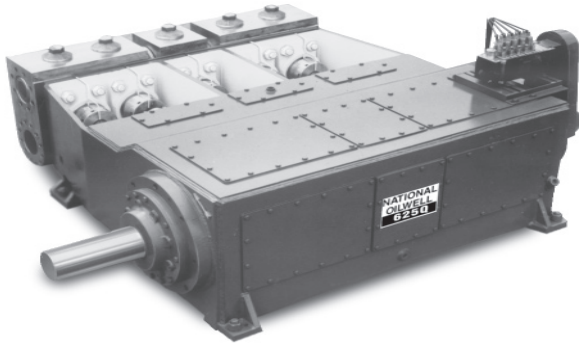


ROTATING RIGHT

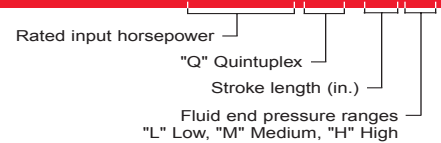
NATIONAL OILWELL 625Q-7 TECHNICAL DATA SHEET



Formerly J-625 Quintuplex Plunger Pump 625Q-7



This 7" stroke pump is designed for a variety of fluid transfer applications operating at low, medium or high pressures.



Field Connections in. (mm)

Pump Model	Discharge Connection Size	Suction Connection Size
625Q-7L	6 (152.4) API-2000# RTJ	10 (254) ANSI-150 F.F.
625Q-7M	4 (101.6) ANSI-1500 RTJ	6 (152.4) ANSI-300 F.F.
625Q-7H	3 (76.2) ANSI-2500 RTJ	6 (152.4) ANSI-300 F.F.

Dimensions

Pump Type	Length	Width	Height
625Q-7L	90-5/8"	108-1/2"	29-3/4"
625Q-7M	87-5/8"	108-1/2"	29-3/4"
625Q-7H	100-5/8"	108-1/2"	29-3/4"

Pump Specifications

Pump Size (Max. Plunger Diameter x Stroke) in. (mm)5 x 7 (127 x 178)
 Rated BHP At 286 RPM (Kw)625 (466)
 Rated Plunger Load (Kg)22,200 (10,070)
 Maximum Working Pressure: PSI (kPa)
 "L" Model Discharge Pressure1,550 (10,686)
 "M" Model Discharge Pressure3,150 (21,716)
 "H" Model Discharge Pressure.....5,000 (34,473)

Crankshaft Extension: in. (mm)

Diameter6 (152.4)
 Length (Long Side).....14-7/8 (378)
 Length (Short Side).....7-5/8 (194)
 Keyway (Width x Depth).....1-1/4 x 5/8 (31.8 x 15.9)

Oil Capacity: Gallons: (L)

Crankcase33-1/2 (127)

Weight: Pump Only On Wood Shipping Skids - Lbs. (Kg)18,000 (8,165)

Standard Equipment

Aluminum Bronze Fluid End
 Aluminum Bronze Valve Covers
 Aluminum Bronze or Stainless Steel Stuffing Boxes
 Bronze Stuffing Box Internals
 Ceramic or Tungsten Carbide Plungers
 General Service or Kevlar Plunger Packing
 Stainless Steel Intermediate Rods
 Fluid King Spherical Valves
 Double Extended Crankshaft
 Oil Level Dipstick
 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

Quick Maintenance Features

- Horizontal Design
- Large Power End Covers
- Easy To Access Bearings
- Separate Crosshead/Plunger Construction
- Open Frame Construction
- Removable Stuffing Boxes
- Interchangeable Valves

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		225 RPM		250 RPM		275 RPM		286 RPM		
					BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	
625Q-7L																			
4 1/4	14.186	73.7257	2.1494	1550	7373	214.94	11059	322.42	14745	429.89	16588	483.62	18431	537.36	20275	591.10	21086	614.74	
4 1/2	15.904	82.6544	2.4098	1400	8265	240.98	12398	361.46	16531	481.95	18597	542.19	20664	602.44	22730	662.68	23639	689.19	
4 3/4	17.721	92.0934	2.6849	1250	9209	268.49	13814	402.74	18419	536.99	20721	604.11	23023	671.23	25326	738.36	26339	767.89	
5	19.635	102.0425	2.9750	1125	10204	297.50	15306	446.25	20409	595.00	22960	669.38	25511	743.75	28062	818.13	29184	850.85	
625Q-7M																			
3	7.069	36.7353	1.0710	3150	3674	107.10	5510	160.65	7347	214.20	8265	240.98	9184	267.75	10102	294.53	10506	306.31	
3 1/4	8.296	43.1130	1.2569	2675	4311	125.69	6467	188.54	8623	251.39	9700	282.81	10778	314.23	11856	345.66	12330	359.48	
3 1/2	9.621	50.0008	1.4578	2300	5000	145.78	7500	218.66	10000	291.55	11250	327.99	12500	364.44	13750	400.88	14300	416.92	
3 3/4	11.045	57.3989	1.6734	2000	5740	167.34	8610	251.02	11480	334.69	12915	376.52	14350	418.36	15785	460.20	16416	478.60	
4	12.566	65.3072	1.9040	1775	6531	190.40	9796	285.60	13061	380.80	14694	428.40	16327	476.00	17959	523.60	18678	544.54	
625Q-7H																			
2 1/2	4.909	25.5106	0.7438	5000	2551	74.38	3827	111.56	5102	148.75	5740	167.34	6378	185.94	7015	204.53	7296	212.71	
2 3/4	5.940	30.8679	0.8999	3750	3087	89.99	4630	134.99	6174	179.99	6945	202.49	7717	224.98	8489	247.48	8828	257.38	
3	7.069	36.7353	1.0710	3150	3674	107.10	5510	160.65	7347	214.20	8265	240.98	9184	267.75	10102	294.53	10506	306.31	
Brake Horsepower Required:					218		338		437		491		547		600		625		

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		225 RPM		250 RPM		275 RPM		286 RPM		
					M ³ /D	L/Min.	M ³ /D	L/Min.	M ³ /D	L/Min.	M ³ /D	L/Min.	M ³ /D	L/Min.	M ³ /D	L/Min.	M ³ /D	L/Min.	
625Q-7L																			
108	91.525	11.7217	8.1356	10687	1172	813.56	1758	1220.34	2344	1627.12	2637	1830.51	2930	2033.91	3223	2237.30	3352	2326.79	
114	102.609	13.1412	9.1209	9653	1314	912.09	1971	1368.14	2628	1824.18	2957	2052.20	3285	2280.23	3614	2508.25	3758	2608.58	
121	114.327	14.6419	10.1625	8618	1464	1016.25	2196	1524.37	2928	2032.50	3294	2286.56	3660	2540.62	4027	2794.68	4188	2906.47	
127	126.678	16.2237	11.2604	7757	1622	1126.04	2434	1689.06	3245	2252.08	3650	2533.58	4056	2815.09	4462	3096.60	4640	3220.47	
625Q-7M																			
76	45.604	5.8405	4.0537	21719	584	405.37	876	608.06	1168	810.75	1314	912.09	1460	1013.43	1606	1114.78	1670	1159.37	
83	53.521	6.8545	4.7575	18443	685	475.75	1028	713.63	1371	951.50	1542	1070.44	1714	1189.38	1885	1308.31	1960	1360.65	
89	62.072	7.9496	5.5176	15858	795	551.76	1192	827.64	1590	1103.52	1789	1241.46	1987	1379.40	2186	1517.34	2274	1578.03	
95	71.256	9.1259	6.3340	13790	913	633.40	1369	950.09	1825	1266.79	2053	1425.14	2281	1583.49	2510	1741.84	2610	1811.51	
102	81.074	10.3832	7.2066	12238	1038	720.66	1557	1081.00	2077	1441.33	2336	1621.49	2596	1801.66	2855	1981.83	2970	2061.10	
625Q-7H																			
64	31.669	4.0559	2.8151	34474	406	281.51	608	422.26	811	563.02	913	633.40	1014	703.77	1115	774.15	1160	805.12	
70	38.320	4.9077	3.4063	25855	491	340.63	736	510.94	982	681.25	1104	766.41	1227	851.57	1350	936.72	1404	974.19	
76	45.604	5.8405	4.0537	21719	584	405.37	876	608.06	1168	810.75	1314	912.09	1460	1013.43	1606	1114.78	1670	1159.37	
Kilowatts Required:					163		252		326		366		408		448		466		

* For operations below 100 RPM an auxiliary lube system is required.
Volume is based on 100% volumetric efficiency. Brake horsepower is based on 90% mechanical efficiency.

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