SPECIFICATION DATA

GORMAN-RUPP PUMPS



G-R HARD IRON BASIC SELF-PRIMING CENTRIFUGAL PUMP

Model: T6A75S-B

January 2024

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Various Patents Apply

PUMP SPECIFICATIONS

Size	6" x 6" (152 mm x 152 mm) NPT - Female
Impeller Type	Semi-Open, Two Vane
Solids-Handling Capability	3" (76,2 mm) Spherical Diameter
Seal Type	Cartridge Type, Mechanical, Oil-Lubricated, Double Floating, Self-Aligning
Radial Bearing	Open Single Row Ball
Thrust Bearing	Open Double Row Ball
Bearing and Seal Cavity Lubrication	SAE 30 Non-Detergent Oil
Maximum Operating Pressure	79 psi (545 kPa)*
Max Temp of Liquid Pumped	160°F (71°C).*
PUMP MATERIALS	
Casing	G-R Hard Iron
Impeller	G-R Hard Iron
Impeller Shaft	Alloy Steel 4150
Shaft Sleeve	Alloy Steel 4130
Seal: Stationary Face Rotating Face Elastomer	Silicon Carbide Silicon Carbide Fluorocarbon FKM, (Viton® or Equivalent)
Replaceable Wear Plate:	Hardened Alloy Steel
Removable Adjustable Cover Plate	Gray Iron 30
Removable Inspection Cover Plate	Gray Iron 30 – 20 lbs. (9,1 kg.)
Flap Valve	Neoprene with Nylon and Steel Reinforc- ing
Seal Plate	G-R Hard Iron
Bearing Housing	Gray Iron 30
Flanges	Gray Iron 30
Gaskets	Buna-N, with Compressed Synthetic Fiber, Vegetable Fiber, PTFE, Cork and Rubber
O-Rings	Buna-N
Hardware	Standard Plated Steel

*Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.

Standard Equipment: Brass Pressure Relief Valve, Bearing and Seal Cavity Oil Level Sight Gauges.

Optional Equipment: Automatic Air Release Valve, Metal Bellows Seal, 120V/240V Casing Heater, High Pump Temperature Shutdown Kit, High Chrome Cast Iron Impeller, Eradicator Solids Reduction System, Drain Kit, Gauge Kit. Gray Iron 30 Suction and Discharge Spool Flanges:

6" ASA (Specify Model T6A75S-B /F)

150 mm DIN 2527 - PN 16 (Specify Model T6A75S-B /FM).



Shown with Optional Suction and Discharge Spool Flanges (Available in ASA or DIN Standard Sizes).

Super T Series Features and Benefits

Easy To Service And Maintain - Pump is mounted above liquid being pumped with only the suction line down in liquid.

Dual Bearing Protection – An atmospheric barrier along with two lip seals provide additional protection of the pump bearings (not available on 2" models).

Inspection Cover – Patented, lightweight inspection cover for easy access to the impeller without removing the entire backcover plate or piping (2" – 8" models).

5 Year Super T Series Warranty

Up To 3" Diameter Spherical Solids Handling (4" – 10" models).

Removable Rotating Assembly – The entire rotating assembly can be removed without disturbing the pump volute or piping allowing the rotating assembly to be easily repaired or quickly replaced with a new ready to drop in assembly.

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APPROXIMATE DIMENSIONS AND WEIGHTS

NET WEIGHT	840 LBS. (381 KG.)*
SHIPPING WEIGHT	910 LBS. (413 KG.)*
EXPORT CRATE	32.5 CU. FT. (0,92 CU. M.)
*Add 25 LBS. (11,3 KG.) w/each spool flange	

★18.00/[457,2] RECOMMENDED FOR REMOVAL OF BACK COVER PLATE T6AS-B / T6CSC-B - 11.00/[279.4] REQUIRED FOR REMOVAL OF BACK COVER PLATE T6BS-B / T6DS-B / T6ESC-B / T6FSC-B - 12.00/[304,8] REQUIRED FOR REMOVAL OF BACK 35.56 [903,2] 35.43 [900,0] COVER PLATE APPROX TO ASA FLANGE APPROX TO DIN FLANGE OPTIONAL 6.00" ASA OR 150MM DIN 2527 (PN 16) SUCTION / DISCHARGE SPOOL FLANGES 2.75 [69,8] 15.98 15.85 - [405,8] TO ASA [402,5] TO DIN STANDARD 6.00" - 8 NPT SUCTION / 10.54 [267,6] TO NPT DISCHARGE FLANGE ٢ Han, Õ 35.28 [896.1] 6 Ħ С TO ASA FLANGE CR. 0 1.50 [38,1] DIA 29.88 [759,0] TO NPT С Я 0 0 Ø .38/[9.6] X .19/[4,8] X 3.50/[88,9] LG 35.15 [892,7] TO DIN 22.37 [568,2] USEABLE KEYWAY (O (Q O) D) Þ FLANGE 1.06 ß E C 10.12 [257,0] \bigcirc 5.00 3.06 [77,7] [126,9] APPROX 10.38 [263,7] .69/[17,5] DIA, 4 HOLES 11.00 11.65 20.75 [527,0] [279.4] [295 8] APPROX 33.07 11.38 [288,9]
]
 [840.0] APPROX 22.75 [577,8] **OPTIONAL ASA OR DIN STANDARD SUCTION & DISCHARGE SPOOL FLANGES AVAILABLE** TOTAL HEAD PERFORMANCE CURVE
 REP RIMUG
 LIF 15

 RPM
 6501750
 850
 95010501150-12501350
 1450155

 FEET
 8
 9
 12
 14
 18
 21
 22
 23
 25

 METERS
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 3,7
 4,3
 5,5
 6,4
 6,7
 7,0
 7,6
 PSI М FΤ 10957E 10957C

 3.7[3,7] (4,3] 30.7.1

 H required prior to using down

 OT use as ovaliable Suction Lifts.

 2 MMJ DIA, MAX, SPHERICAL SOLDS

 MOTE:

 Select performance within Select performance of curves

 SP.GR, 1.0

 RPM_MOTED

 Consult factory on operating conditions

 Consult factory on operating conditions

 Sbeeck of the select performance within Source 1350 rpm when TOSL exceeds 20 ft.

 40%

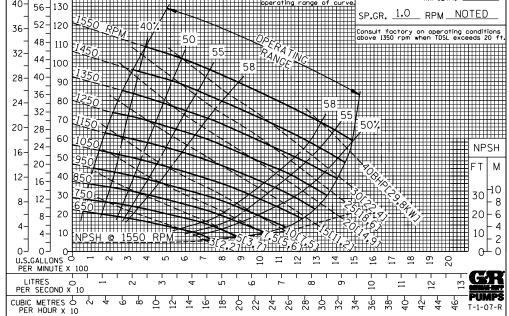
 50

 55

 SP.A. Fill

 SB

 SB
 T6A-B-4 CURVE _ VOLUTE Tigure NPSH required prior to using above table.D0 NOT use as available Suction Lifts. 3.00"/[76,2 MM] DIA. MAX. SPHERICAL SOLIDS 44 140 60-40 130 56 52 120 36 Ŕ 48 110 32 44 100 40 28 90



24-26-

28-30-

32-34-36-38-40-42-44-

12-

16-18-22-22-23-



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T-1-07-R