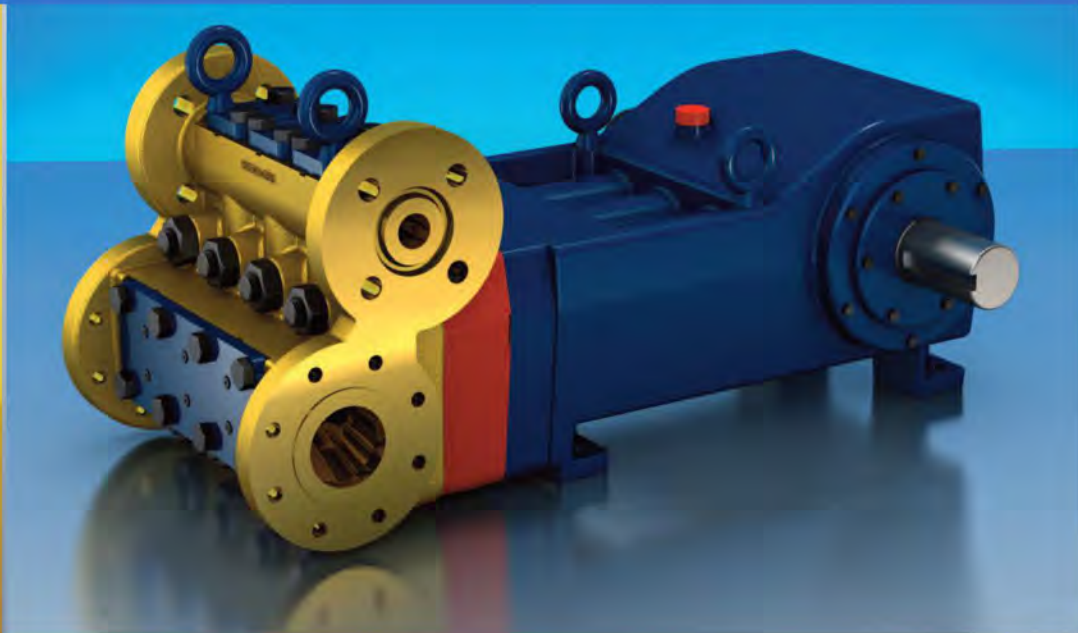


Hydra-Cell[®]
Seal-less Pumps

JJTECH
CUTTING EDGE ARTIFICIAL LIFT

Saltwater Disposal Water Flooding Pumps



SIMPLY BUILT TO LAST

j-jtech.com



T80 Series Model T8045

Maximum Flow Rate: 45 gpm (170.4 l/min)

Maximum Pressure: 3000 psi (207 bar)

- Seal-less design eliminates leaks, hazards and the expense associated with seals and packing
- Low NPSH requirements allow for operation with a vacuum condition on the suction - positive suction pressure is not necessary
- Can operate with a closed or blocked suction line and run dry indefinitely without damage, eliminating downtime and repair costs
- Unique diaphragm design handles more abrasives with less wear than gear, screw or plunger pumps
- Hydraulically balanced diaphragms to handle high pressures with low stress
- Lower energy costs than centrifugal pumps
- Rugged construction for long life with minimal maintenance
- Compact design and double-ended shaft provide a variety of installation options



T8045 with Nickel Aluminum Bronze pump head



Flow

Model: T8045

Max. Input rpm	Max. Flow gpm	Max. Flow l/min
450	45.0	170.4

Consult factory when operating below 20 gpm (75.7 l/min).

Pressure

Maximum Inlet Pressure
500 psi (34 bar)

Flow Capacities @3000 psi (207 bar)

Model	rpm	gpm	l/min
T8045	450	45.0	170.4

Delivery

Pressure psi (bar)	gal/rev	liters/rev
500 (34)	0.107	0.406
1500 (103)	0.105	0.397
3000 (207)	0.101	0.384

rpm

Maximum:	450
Minimum:	200 Consult factory for speeds less than 200 rpm

Maximum Discharge Pressure

Metallic Heads:	3000 psi (207 bar)
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Maximum Inlet Pressure

500 psi (34 bar)

Operating Temperature

Maximum:	180° F (82.2° C)
Minimum:	40° F (4.4° C)

Consult factory for temperatures outside this range

Maximum Solids Size

800 microns

Input Shaft

Left or Right Side

Inlet Ports

3-1/2 inch Class 300 RF ANSI Flange or 2-1/2 inch NPT

Discharge Ports

1-1/2 inch Class 2500 RJ ANSI Flange or 1-1/2 inch NPT
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Shaft Diameter

3 inch (76.2 mm)

Shaft Rotation

Reverse (bi-directional)

Oil Capacity

18 US quarts (17 liters)

10W30 standard-duty oil

Weight

Metallic Heads:	1100 lbs. (499 kg)
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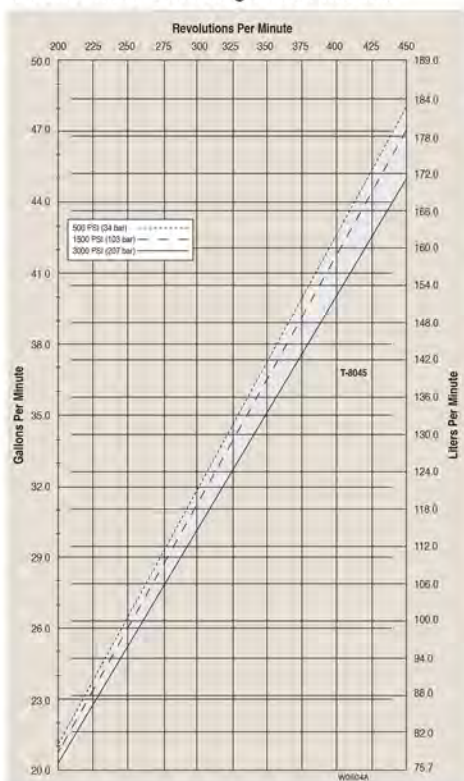
Fluid End Materials

Manifold:	Nickel Aluminum Bronze (NAB) 316L Stainless Steel
Diaphragm/Elastomers:	FKM Buna-N
Diaphragm Follower Screw:	316 Stainless Steel
Valve Spring Retainer:	Polypropylene
Check Valve Spring:	Elgiloy
Valve Disc/Seat:	Tungsten Carbide 17-4 Stainless Steel Hastelloy C
Outlet Valve Retainer:	316 Stainless Steel
Plug, Outlet Valve Port:	316 Stainless Steel
Inlet Valve Retainer:	316 Stainless Steel

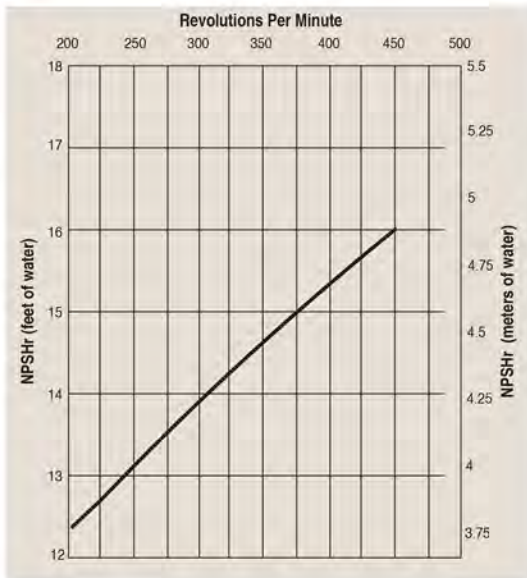
Power End Materials

Crankshaft:	Forged Q&T Alloy Steel
Connecting Rods:	Ductile Iron
Crossheads:	12L14 Steel
Crankcase:	Ductile Iron
Bearings:	Spherical Roller/Journal (main) Steel Backed Babbit (crankpin) Bronze (wristpin)

Maximum Flow at Designated Pressure



T Series pumps feature the Hydra-Cell seal-less design, eliminating clean-up costs from leaking seals or packing and protecting operators from dangerous fluids such as those containing hydrogen sulfide.



D/G-35 Series

Up to 37 gpm (140 l/min)



D/G-35 Specialized Designs



Hydra-Cell Slurry Duty pumps are specifically designed for abrasive slurry applications. See page 80 for complete specifications.



The D-35 Hydra-Cell can be equipped with an SAE or ANSI flange pump head for critical performance applications.

Hydra-Cell
SIMPLY BUILT TO LAST

Flow

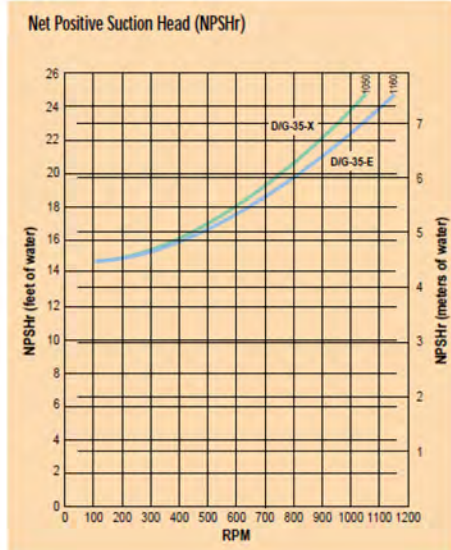
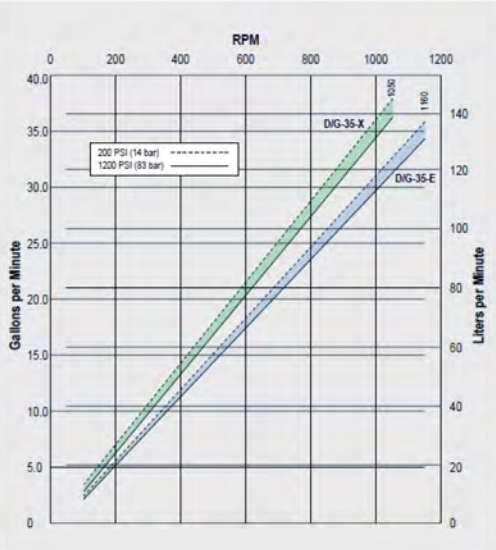
Model	Max Flow gpm	Max Flow l/min	Max Input rpm
D/G-35-X	36.5	138	1050
D/G-35-E	34.5	131	1150

Pressure

Maximum Inlet Pressure
250 psi (17 bar)

Maximum Discharge Pressure
1200 psi (83 bar)

Max Pressure	1200 psi (83 bar)		
Capacity @ Max Pressure			
	rpm	gpm	l/min
D/G-35-X	1050	36.5	138
D/G-35-E	1150	34.5	131
Delivery @ Max Pressure			
	revs/gal	revs/liter	
D/G-35-X	29	7.7	
D/G-35-E	33	8.8	
Max Inlet Pressure	250 psi (17 bar)		
Max Temperature	250°F (121°C) – Consult factory for correct component selection for temperatures above 160°F (71°C)		
Inlet Port	D-35: 2-1/2 inch NPT or 3 inch SAE flange G-35: 2-1/2 inch BSPT		
Discharge Port	D-35: 1-1/4 inch NPT or 1-1/4 inch SAE flange G-35: 1-1/4 inch BSPT		
Shaft Diameter	2 inch		
Shaft Rotation	Bi-directional		
Bearings	Tapered roller		
Oil Capacity	5 US quarts (4.7 liters), see Accessories Section for oil selection and specification.		
Weight	240 lbs (109 kg)		



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