

The 3D series pumps is a general purpose design suitable for many applications including lubrication, fuel transport and burner service, low pressure hydraulic applications and hydraulic elevator service. Pump shaft is generously sized to allow belt drive if desired (mechanical seal versions only).

This series is available in magnetic drive configurations.

3D SERIES	Nominal Flow Rate, GPM/LPM, at 500 PSI (34.5 BAR), 200 SSU (43 CST)					
	SPEED- RPM					
Size	3500	2900	1750	1450	1150	960
106	12/46	10/36	4/16	-	-	-
118	17/67	14/52	6/24	4/17	-	-
137	29/108	23/85	11/42	8/30	-	-
156	44/165	35/132	18/68	13/51	9/34	-
187Y	55/209	44/167	23/87	17/66	12/45	8/32
187M	67/252	53/201	28/104	21/79	14/54	10/38
187	78/294	62/236	33/125	26/97	18/68	13/49
218L	99/376	80/302	42/159	32/121	22/84	16/61
218	126/477	102/385	55/209	43/163	31/117	23/88
250P	150/568	121/458	66/248	51/193	37/139	27/104
250	192/728	156/591	87/328	69/260	50/191	39/148
275E	218/824	177/669	98/372	78/295	57/217	44/168
275	-	212/801	119/452	95/361	71/269	56/212
312P	-	246/931	138/521	109/414	81/307	63/239
312	-	-	179/677	144/543	108/409	86/325
337	-	-	230/872	186/704	141/535	113/428
350	-	-	258/977	209/789	159/601	127/482
400P	-	-	310/1174	251/949	192/725	154/583
400	-	-	397/1501	322/1220	248/940	201/762

Series 3D Specifications

Casing- High tensile, close-grained cast iron. Cast steel optional, sizes 156-400

Rotor Housing- Pearlitic gray iron

Power Rotor- Alloy steel, nitride hardened and thread ground

Idle Rotors- Pearlitic gray iron, induction hardened and thread ground

Gaskets- Cellulose and non-asbestos fiber

Seal & Bearing- Buna N bellows mechanical seal, Buna N o-rings and standard external, permanently grease packed, deep groove ball bearing- recommended for distillate fuels and lubricating oil or hydraulic fluids.

Accessories- Completely mounted, built to order pump/driver assemblies are available with baseplates, ANSI RF spool pieces, NEMA 'C' face adapters.

Outlet Pressure- 500 PSIG (34.5 BAR) maximum. Minimum recommended differential pressure is 40 PSI (2.75 BAR).

Inlet Pressure- 50 PSIG (3 BAR) maximum, distillate fuel, lube- sizes 218-400.

Viscosity- 33 SSU (2.0 CST) minimum. Type B: 3000 SSU (650 CST) maximum (consider cold start).

Temperature- 0 to 180°F (-18 to 82°C). at 1800 RPM or less, 0 to 225°F (-18 to 107°C) above 1800 RPM.

Drive- Direct, belt or chain. Sealless magnetic Drive configurations also available.

Rotation- Clockwise facing pump shaft standard. Consult Imo for counterclockwise

Mounting- May be foot mounted in any orientation. Flange mounting optional for horizontal or vertical installations.

Filtration- Inlet strainers are required to keep contaminants and abrasives out of the pump. They must be selected in consultation with the strainer vendor to prevent pump starvation. Normally, 60 mesh (0.01 inch- 238 micron) for light and 1/8-3/16 inch (3-5mm) openings for heavy oils are recommended.

Maximum Speed- Do not exceed 1800 RPM pumping residual fuels or crude oil due to the presence of abrasives and contaminants.

Size	106	118	137	156	187	218	250	275	312	337	350	400
Max.* RPM	5000	5000	4400	4400	4400	3600	3600	3600	2500	2500	2500	2500

**SAR CHESHMEH CONCENTRATOR
EXPANSION PHASE 1**

SPARES

Drawing. No.: E1-30-MD-144

85-340D50138

Equipment No.:

E1-30-2110-01

Denomination:

**PUMP LOW PRESSTRE
IMO model #G3DB-250 (85-
340CS0632 PORTYCES-340D50170
ITEM #4)**

Quantity: 1/1

