

گولڈن ڈائنامکس (پرائیویٹ) لمیٹڈ



NOWA

■ Submersible Bore-Hole Pumps

GSP Series



POWERED by
HONDA



SAER
ELETTOPOMPE

TÜV **SYD**
AUSTRIA



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Research Support by



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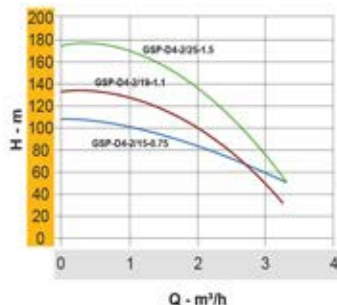
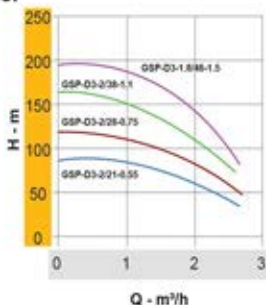
Performance Chart:

Model	Motor	Q - Capacity (m ³ /h - US gpm - lpm)												
		0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7			
		0	1.3	2.6	4	5.3	6.6	7.9	9.2	10.6	11.9			
HP kW		H - Total Head (m) @ 2900 RPM												
GSP-D3-2/21-0.55	0.75 0.55	89	89	87	85	81	76	68	60	51	38			
GSP-D3-2/28-0.75	1 0.75	115	114	112	110	104	97	88	77	65	49			
GSP-D3-2/38-1.1	1.5 1.1	162	160	157	154	147	137	124	109	92	69			
GSP-D3-1.8/46-1.5	2 1.5	197	195	193	188	179	167	151	130	106	74			

Model	Motor	Q - Capacity (m ³ /h - US gpm - lpm)																							
		0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3	3.3	3.6	4.8	5.4	6	7.2	8.4	9	9.6	11	13	14.4	16.2
		0	1.3	2.6	4	5.3	6.6	7.9	9.2	10.6	11.9	13.2	14.5	15.9	21.1	23.8	26.4	31.7	37	39.6	42.3	47.6	55.5	63.4	71.3
HP kW		H - Total Head (m) @ 2900 RPM																							
GSP-D4-6/20-2.2	3 2.2	140	139	137	136	135	134	133	131	129	127	125	123	121	109	100	90	68	39						
GSP-D4-8/18-2.2	3 2.2	113	112	112	111	110	108	106	103	101	100	99	98	96	92	88	86	78	67	60	51	33			
GSP-D4-12/20-4T	5.5 4							120	119	118	117	116	115	114	111	108	104	98	93	89	85	77	63	47	26
GSP-D4-12/26-5.5T	7.5 5.5							156	154	153	152	151	150	149	144	140	135	128	120	115	110	100	82	61	33

Model	Motor	Q - Capacity (m ³ /h - US gpm - lpm)																						
		0	12	16	18	20	22	25	30	32	35	38												
		0	52.8	70.5	79.3	88.1	97	110	132	140.8	154	167.2												
HP kW		H - Total Head (m) @ 2900 RPM																						
GSP-D6-30/6-5.5T	7.5 5.5	70	63	61	59	58	57	54	47	44	38	31												
GSP-D6-17/12-7.5T	10 7.5	130	115	100	89	77	63	40																
GSP-D6-30/8-7.5T	10 7.5	93	85	81	80	79	77	73	63	59	50	42												
GSP-D6-30/12-11T	15 11	140	126	122	118	116	113	108	94	88	76	62												

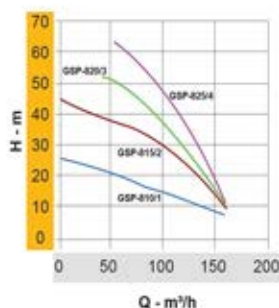
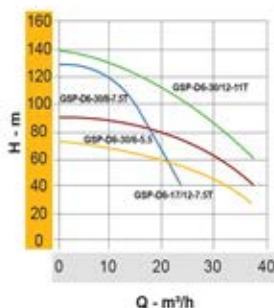
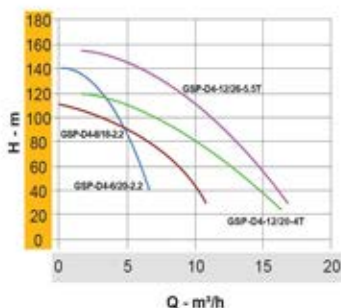
Model	Motor	Q - Capacity (m ³ /h - US gpm - lpm)														
		0	45.5	57	68	79.5	91	102	113.5	125	136.5	142	147.5	153.5	159	
		0	200	250	300	350	400	450	500	550	600	625	650	675	700	
HP kW		H - Total Head (m) @ 2900 RPM														
GSP-810/1	10 7.5	24.8	20.7	19.6	18.5	17.5	16.6	15.7	14.8	13.5	12	11.2	10.2	9.2	8.2	
GSP-815/2	15 11	44.2	37	35.3	33.2	31	29.5	27.7	25.7	22.6	18.5	16.7	14.5	12	9	
GSP-820/3	20 15		52	50	48	44.8	40.7	37.2	33.6	29.3	24	21	17.5	14	10	
GSP-825/4	25 18.5			61	56	51.5	47.5	43	37.3	32	26.3	23	19	15.0	10.5	

Performance Curves:


Model	Motor	Q - Capacity (m ³ /h - US gpm - lpm)												
		0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3	3.3	
		0	1.3	2.6	4	5.3	6.6	7.9	9.2	10.6	11.9	13.2	14.5	
HPkW		H - Total Head (m) @ 2900 RPM												
GSP-D4-2/15-0.75	1 0.75	106	105	104	103	100	96	90	85	78	68	59	48	
GSP-D4-2/19-1.1	1.5 1.1	134	134	132	130	125	118	109	100	88	74	57	36	
GSP-D4-2/25-1.5	2 1.5	176	176	174	171	165	155	144	131	116	97	75	48	

Dimension Table:

Model	d Φ	DNa Φ	T (mm)	P (mm)	M (mm)	Weight (kg)
GSP-D3-2/21-0.55	3"	1.25"	1062	694	368	9.6
GSP-D3-2/28-0.75			1238	830	408	11
GSP-D3-2/38-1.1			1567	1074	493	14.9
GSP-D3-1.8/46-1.5	4"	1.25"	1849	1306	543	17.1
GSP-D4-2/15-0.75			906	582	344	13.9
GSP-D4-2/19-1.1			1063	684	379	16
GSP-D4-2/25-1.5	4"	2"	1286	882	424	19.4
GSP-D4-6/20-2.2			1491	949	542	25
GSP-D4-8/18-2.2			1487	945	542	24.1
GSP-D4-12/20-4T	6"	4"	2108	1410	698	32.9
GSP-D4-12/26-5.5T			2533	1745	788	39.4
GSP-D6-30/6-5.5T			1462	848	614	56.9
GSP-D6-17/12-7.5T	6"	4"	1653	999	654	66.1
GSP-D6-30/8-7.5T			2030	1176	854	101
GSP-D6-30/12-11T			2178	1424	754	83.4
GSP-810/1	8"	5"	1225	630	595	90
GSP-815/2			1455	770	685	110
GSP-820/3			1685	910	775	125
GSP-825/4			1925	1050	975	135





**GOLDEN
DYNAMICS**
(PVT) LTD.

NOWA

■ Submersible Bore-Hole Pumps

GSP Series



Function:

This series of pumps are deep-well (Bore-Hole) electric pumps in which the motor is closed coupled to the pump. The entire assembly is submerged in the water to be pumped. The basic operational principle is as like centrifugal pumps. Fluid enters the pump through an intake screen and is lifted by the pump stage(s). These pumps are more efficient because it prevents 'pump cavitations'. Absence of long intermediate shaft also reduces maintenance issues.

Construction:

GSP3 & GSP4 Series: Pump Body, Motor Casing, Motor Bottom Support, Shaft, Coupling, Water Ring, Cable Cover, Strainer, Nuts, Bolts & Washers in Stainless Steel (AISI-304), Suction & Discharge in Cu-Alloy (ASTM-C85500), Impeller in Polyoxymethylene & Diffuser in Polycarbonate, Graphite-Ceramic/TC Mechanical Seal.

GSP6 Series: This series of pumps are completely in Stainless Steel (AISI-304), Motor Casing in Stainless Steel (AISI-304).

GSP8 Series: Suction Support, Diffuser, Impeller and Outlet in Cast Iron (EN-GJL-250), Shaft in Stainless Steel (AISI 431), Non-Return Valve, Cable Cover, Grid, Nuts, Bolts & Washers in Stainless Steel (AISI-304), Impeller Spacer in Stainless Steel (AISI 316), O-Ring & other Rubber Components in EPDM, Counter Thrust Rings in Anti-Wear Resin.

Application:

These pumps are suitable for public and industrial water supply, construction sites, hotels, fresh water handling, river pumping, well pumping, reservoir pumping, farm irrigation mining and industrial use. These pumps are designed for clean water with certain amount of sand particles as well. Recommended well diameter is $\varnothing 4"$ (min) for GSP3 Series, $\varnothing 5"$ (min) for GSP4 Series, $\varnothing 8"$ (min) for GSP6 Series and $\varnothing 10"$ (min) for GSP8 Series. However, it is also suitable to draw water from tanks or natural basins.

Installation:

Pump will be installed vertically into the well as per NEMA Standard. Pump can be installed vertically/horizontally into the water tank according to the requirements but keeping in view of certain restrictions.

Electric Motor:

Oil/Water filled, PVC/PE Winding, IP-68, Insulation Class 'F', 220 V / 380 V + 5%, 50 Hz, Thrust Load 15500N, coupling as NEMA-1-18-388 Standard, Norms IEC60034-1, equipped with built in Capacitor (for single-phase motors) & Control Panel (optional).

Pump Performance Data:

GSP3 & GSP4 Series

Capacity (Q):	16.2 m ³ /h (max.)
Head (H):	197 m (max.)
Liquid:	Chemically & Mechanically Non-Aggressive (pH=8-6)
Fluid Temp:	up to +35°C (max.)
Sand Contents:	< 0.25% (max.)
Working Pressure:	20 bar (max.)
Immersion:	80 m (max.)
Starts/hr:	30 times @ regular intervals (max)
Tolerance:	Performance UNI EN ISO 9906, Vertically Installation coupling as per NEMA Standards.
Rotation:	2900 RPM, Clockwise Rotation (looking at the outlet)

GSP6 Series

Capacity (Q):	38 m ³ /h (max.)
Head (H):	140 m (max.)
Liquid:	Chemically & Mechanically Non-Aggressive (pH=8-6)
Fluid Temp:	up to +35°C (max.)
Sand Contents:	< 0.25% (max.)
Working Pressure:	14 bar (max.)
Immersion:	100 m (max.)
Starts/hr:	30 times @ regular intervals (max)
Tolerance:	Performance UNI EN ISO 9906, Vertically Installation coupling as per NEMA Standards.
Rotation:	2900 RPM, Clockwise Rotation (looking at the outlet)

GSP8 Series

Capacity (Q):	159 m ³ /h (max.)
Head (H):	61 m (max.)
Liquid:	Chemically & Mechanically Non-Aggressive (pH=8-6)
Fluid Temp:	up to +35°C (max.)
Sand Contents:	3mm (max.)
Working Pressure:	6 bar (max.)
Immersion:	100 m (max.)
Starts/hr:	30 times @ regular intervals (max)
Tolerance:	Performance UNI EN ISO 9906, Vertically Installation coupling as per NEMA Standards.
Rotation:	2900 RPM, Clockwise Rotation (looking at the outlet)