



## DAVEY Shallow Well

### SHALLOW WELL JET PUMP

#### FEATURES & BENEFITS

- Davey LTEFC motor providing:
  - IP56 rating for long term protection against vermin, dust and water
- Designed for both high ambient temperatures and extremes in supply voltage making them ideal for remote areas
- Pump unit features the highest corrosion resistance with outstanding pressure capacity due to:
  - unique composite casing design with high strength aluminium outer casing and full internal casing made from precision moulded Rilsan.
  - mounting feet in high impact resistant corrosion proof Xenoy
- Versatile pump - convertible to match required duty
- Colour coded jets and venturis for easy identification
- Easily converted to automatic operation
- 165S available with 3 phase motor
- Quick and easy installation
- Low maintenance
- Easy to service if required
- O-ring seal hand tightened priming plug for easy operation

Model Numbers:  
095S, 125S, 165S

**GUARANTEE**  
2 YEARS

#### APPLICATIONS

Ideal for supplying high pressure water for farm water supply from dams, creeks and rivers, tank filling, stock watering and sprinkler supply.

#### PUMP

- 1 Stage (Single Impeller)
- Jet assisted
- Marine grade aluminium pump body with Rilsan® lining
- Interchangeable jet/venturi kits to match pump performance to required duty
- Pressure switch fitted
- Pressure gauge supplied

#### MOTOR

- Davey manufactured.
- 2 pole, 2900rpm, 50Hz.
- Class F insulation, IP56.
- Permanently split capacitor design for single phase motors.
- P2 metal jacket 'fail safe' capacitors.
- Double contact seal C3, high temperature greased bearings.
- Inbuilt thermal overload protection with automatic reset in all 1Ø models.

# Shallow Well Pressure Systems



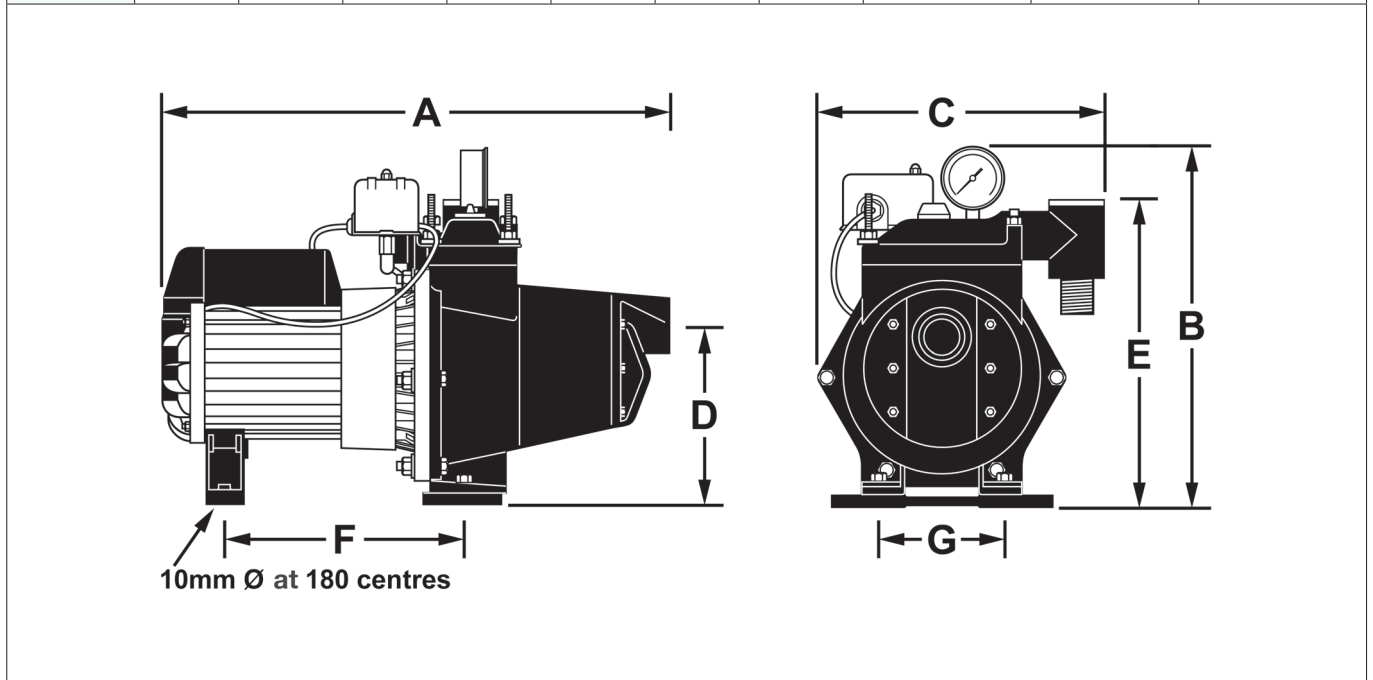
OPERATING LIMITS			
Model	095S	125S	165S
Maximum capacity (@260kPa, nil suction) lpm	95	126	165
Maximum suction head (m)	7.5		
Maximum water temperature	50°C		
Minimum water temperature	1°C		
Inlet size	1½" BSP(F)		
Outlet size	1¼" BSP(F)		

ELECTRICAL DATA			
Shallow Well Pump - Type	095S	125S	165S
Supply voltage (1Ø)	220-250		
Supply voltage (3Ø)	N/A	N/A	380-450
Output power (kW)	1.1	1.4	1.8
Maximum rated current @ 240V/415V (amps)	7.2	8.5	10/4.2
Locked rotor current @ 240V/415V (amps)	21	25	39/24
Insulation class	F		
IP rating	IP56		
Maximum ambient temperature	50°C		
Starting (1Ø)	P.S.C.		

MATERIALS OF CONSTRUCTION	
PART	MATERIAL
Suction cover	Aluminium-Rilsan® lined
Pump body	Aluminium-Rilsan® lined
Discharge port	Aluminium-Rilsan® lined
Diffuser	Glass filled Noryl
Backplate	Glass filled Noryl
Jet/Venturi housing	Glass filled Noryl
Impeller	Glass filled polycarbonate
Jet	Acetyl
Venturi	Acetyl
Seal ring (stationary)	Ceramic
Seal ring (rotating)	Carbon
O-rings	Nitrile rubber
Priming plug	Nylon
Shaft sleeve	316 stainless steel
Motor shell	Aluminium
Motor shell finish	Polyester powder coat
Capacitor cover	Polypropylene
Terminal box cover	Polypropylene
Mounting feet	Xenoy®

INSTALLATION & PRIMING
<ul style="list-style-type: none"> <li>Installations with suction lift require a good quality foot valve to avoid loss of prime.</li> <li>To prime, fill pump body, suction and pressure pipes and injector through priming plug hole and replace plug.</li> </ul> <p>Note: For complete details consult the installation and operating instructions.</p>

DIMENSIONS (mm)										
Model	A	B	C	D	E	F	G	Inlet B.S.P.	Outlet B.S.P.	Net Weight (kg)
095S	535	365	300	158	320	210	210	1½"F	1¼"F	22
125S	555	365	300	158	320	230	210	1½"F	1¼"F	24.5
165S	585	365	300	158	320	230	210	1½"F	1¼"F	25



# Shallow Well Pressure Systems



SHALLOW WELL PUMPS																									
Pump Model	Jet Kit No.	Total Suction Head		Delivery Head in metres/feet																Maximum Shut-Off Pressure		Pressure Switch Setting			
				26	85	28	92	34	112	38	125	41	135	48	157	55	180	62	203					66	217
				Delivery Head in kPa/psi																					
		m	ft	260	38	280	41	340	49	380	55	410	59	480	70	550	80	620	90	660	96	kPa	psi	kPa	psi
Output per minute in litres/gallons																									
95S 1ph 1.6kW *	22690* Jet-Black Venturi-Green	0	0	95	20.8	91	20.0	60	13.1	42	9.2	29	6.3									480	70		
		1.5	5	86	18.9	83	18.2	55	12.0	40	8.7	27	5.9									476	69	260	38
		4.0	13	70	15.3	69	15.1	45	9.8	30	6.5	17	3.7									450	65	to	to
		6.0	20	55	12.0	55	12.0	37	8.1	22	4.8	10	2.1									430	62	380	55
		7.5	25	42	9.2	42	9.2	34	7.4	15	3.2											412	60		
1.1kW ◊ 7.2A	22691 Jet-Brown Venturi-White	0	0					65	14.2	53	11.6	46	10.1	31	6.8	19	4.1					680	98	340	49
		1.5	5					60	13.1	50	10.9	43	9.4	29	6.3	17	3.7					670	97	to	to
		4.0	13					48	10.5	41	9.0	35	7.6	24	5.2	14	3.0					645	93	to	to
		6.0	20					38	8.3	37	8.1	32	7.0	21	4.6	11	2.4					630	91	510	74
		7.5	25					31	6.8	31	6.8	28	6.1	20	4.3	10	2.1					620	90		
125S 1ph 2.1kW *	22693* Jet-Black Venturi-Black	0	0	126	27.7	126	27.7	100	21.9	72	15.8	51	11.2									482	70	260	38
		1.5	5	113	24.8	113	24.8	84	18.4	64	14.0	45	9.8									470	68	to	to
		4.0	13	93	20.4	93	20.4	70	15.3	50	10.9	28	6.1									445	64	to	to
		6.0	20	70	15.3	70	15.3	59	12.9	36	7.9	11	2.4									425	62	380	55
		7.5	25	57	12.5	57	12.5	43	9.4	18	3.9											400	58		
2.1kW ◊ 1.4kW ◊ 8.5A	22694 Jet-Green Venturi-Brown	0	0					90	19.7	78	17.1	67	14.7	47	10.3	28	6.1					660	96	340	49
		1.5	5					82	18.0	73	16.0	63	13.8	43	9.4	24	5.2					650	94	to	to
		4.0	13					67	14.7	66	14.5	56	12.3	37	8.1	19	4.1					630	91	to	to
		6.0	20					53	11.6	53	11.6	52	11.4	34	7.4	16	3.5					615	89	510	74
		7.5	25					44	9.6	44	9.6	44	9.6	33	7.2	15	3.2					605	88		
165S 1ph 2.4kW *	22697* Jet-White Venturi-Yellow	0	0	165	36.2	165	36.2	105	23.0	77	16.9	62	13.6									490	71	260	38
		1.5	5	144	31.6	144	31.6	90	19.7	67	14.5	53	11.6									480	70	to	to
		4.0	13	120	26.3	120	26.3	82	18.0	58	12.7	38	8.3									454	66	to	to
		6.0	20	90	19.7	90	19.7	76	16.7	52	11.4	26	5.7									440	64	380	55
		7.5	25	70	15.3	70	15.3	60	13.1	32	7.0											415	60		
2.4kW ◊ 10.0A 3ph 2.3kW *	22698 Jet-Red Venturi-Red	0	0					112	24.6	88	19.3	76	16.7	51	11.2	26	5.7					630	91	340	49
		1.5	5					100	21.9	82	18.0	71	15.6	47	10.3	22	4.8					622	90	to	to
		4.0	13					88	19.3	75	16.4	64	14.0	41	9.0	16	3.5					598	87	to	to
		6.0	20					70	15.3	64	14.0	57	12.5	32	7.0	8	1.7					572	83	510	74
		7.5	25					54	11.8	54	11.8	50	10.9	26	5.7							552	80		
1.8kW ◊ 4.2A	22699 Jet-Red Venturi-Green	0	0											53	11.6	42	9.2	30	6.5	24	5.3	830	120	480	70
		1.5	5											50	10.9	39	8.5	28	6.1	22	4.8	823	119	to	to
		4.0	13											48	10.5	36	7.9	25	5.4	20	4.4	805	117	to	to
		6.0	20											43	9.4	34	7.4	23	5.0	17	3.7	795	115	660	96
		7.5	25											34	7.6	32	7.0	21	4.6	16	3.5	778	113		
Prime Jet 240 1ph 3.2kW *	22680 Jet- P/No 6076-11 Venturi- P/No 6075-8	0	0			228	50.1	164	36.0	130	28.5											470	68	240	35
		1.5	5			208	45.7	150	32.9	112	24.6											455	66	to	to
		4.0	13			165	36.2	114	25.0	75	16.4											435	63	to	to
		6.0	20			132	29.0	82	18.0	46	10.1											415	60	370	54
		7.5	25			108	23.7	64	14.0	31	6.8											405	59		
3.2kW ◊ 14.0A 3ph 3.0kW *	22681 Jet- P/No 6076-4 Venturi- P/No 6075-5	0	0	234	51.5	192	42.2	178	39.1	157	34.5	128	28.1	78	17.1							570	83	300	44
		1.5	5	211	46.4	170	37.3	164	36.0	146	32.1	114	25.0	64	14.0							555	80	to	to
		4.0	13	167	36.7	134	29.4	127	27.9	118	25.9	88	19.3	45	9.8							535	78	to	to
		6.0	20	133	29.3	108	23.7	104	22.8	98	21.5	74	16.2	34	7.4							515	75	470	68
		7.5	25	108	23.7	86	18.9	86	18.9	86	18.9	66	14.5	22	4.8							500	73		
2.3kW ◊ 5.1A	22682 Jet- P/No 6076-7 Venturi- P/No 6075-9	0	0									130	28.5	110	24.1	78	17.1	46	10.1			735	107	400	58
		1.5	5									117	25.7	98	21.5	66	14.5	36	7.9			710	103	to	to
		4.0	13									94	20.6	81	17.8	48	10.5	19	4.1			670	97	to	to
		6.0	20									75	16.4	68	14.9	36	7.9	6	1.3			635	92	590	86
		7.5	25									62	13.6	58	12.7	28	6.1					610	88		
2.3kW ◊ 5.1A	22683 Jet- P/No 6076-8 Venturi- P/No 6075-10	0	0											101	22.2	77	16.9	50	10.9	41	9.1	790	115	500	73
		1.5	5											90	19.7	74	16.2	46	10.1	35	7.8	770	112	to	to
		4.0	13											72	18.8	58	12.7	34	7.4	25	5.6	740	107	to	to
		6.0	20											57	12.5	48	10.5	26	5.7	18	4.0	720	104	690	100
		7.5	25											34	7.4	45	9.8	21	4.6	13	2.9	700	102		

\* Input kW (P<sub>1</sub>) ◊ Output kW (P<sub>2</sub>)

## IMPORTANT INFORMATION

- Pump outlet: 1½" (32 mm) BSP Female. 'Automatic Demand Response' valve fitted as standard on all complete pump models.
- Suction pipe sizes: 1½" and 1¼" I.D imperial polypipe for injector kit nos 22469 – 22475 and 22427 – 22428. 2" and 1½" I.D Imperial polypipe for injector kit nos 22570 – 22573 and 22566 – 22569. 2" and 1¼" I.D Imperial polypipe for injector kit no. 22468.
- Max. shut-off pressures are at shallowest depth to water for each injector. Reduce by 10kPa for every 1 metre of extra depth to water.
- All performances are with injector submergence of 3m and minimum pipe length of 12m.
- All pipe fittings and hose clips are included with deep well injectors.
- For offset applications, performance will be reduced if suction pipe lengths exceed depths indicated for borehole installations.
- Consult your Davey dealer for recommendations on pipe sizes.
- Pumps are supplied with pressure switches connected, suitable for automatic pressure system operation in conjunction with Davey Supercell tanks.
- To convert litres/min to gallons/hour multiply by 13.2. All imperial data is an approximation of metric figures. Specifications subject to change without notice.
- All single phase models supplied with plug and lead for 10amp (Prime Jet 240, 15amp) 220/250 volt 50Hz operation. Prime Jet 240 only may be re-connected for use on nominal 480 volt 50Hz single phase supply. 3 phase 415 volt available in models 165D and Prime Jet 240 only – specify when ordering.



daveywater.com

This literature is not a complete guide to product usage. All images provided in this document are for illustration purposes only. Further information is available from your Davey Dealer, Davey Support Centre and from the relevant product Installation and Operating Instructions. Must be read in conjunction with the relevant product Installation and Operating Instructions and all applicable statutory requirements. Product specifications may change without notice. © Davey is a registered trademark of Davey Water Products Pty Ltd. © Davey Water Products Pty Ltd 2024.

