

TECHNICAL BROCHURE

BJS+



JS+ J5S, J5SH, J7S, J10S, J15S

SHALLOW WELL JET PUMPS - 1/2, 3/4, 1 AND 1 1/2 HP



Goulds Water Technology

Residential Water Systems

FEATURES

Compact: Design has an integral shallow well adapter built into the casing, which eliminates the need for a separate shallow well adapter.

Serviceable:

- Back pullout design allows disassembly of pump for service without disturbing piping.
- Two compartment motor for easy access to motor wiring and replaceable components.
- Nozzle clean out plug in pump case.
- Corrosion resistant, engineered plastic tubing and fittings are easily removed for cleaning. Premium O-ring design fittings need only be hand tight to seal.

Impeller: F.D.A. compliant, glass filled Noryl®. Corrosion and abrasion resistant.

Diffuser (Guidevane): Bolt down diffuser provides positive alignment with impeller. Diffuser also has stainless wear ring for extended performance in abrasive conditions. F.D.A. compliant, injection molded, food grade, glass filled Lexan® for durability and abrasion resistance.

APPLICATIONS

Specifically designed for the following uses:

- Homes
- Cottages
- Booster service

SPECIFICATIONS

Pump:

- **Pipe connections:** 1¼" NPT suction and 1" NPT discharge
- **Pressure switch:** AS4 preset (30-50 PSI).

Motor:

- NEMA standard
- 60 Hz
- ½ - 1½ HP, 115/230 V capacitor start
- Single phase
- 3500 RPM
- Built-in overload with automatic reset
- Stainless steel shaft
- Rotation: clockwise when viewed from motor end
- UL778 listed

Maximum temperature: 140°F.

Tubing and Fittings: F.D.A. compliant engineered plastic is corrosion and U.V. resistant.

Powered for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits. Can be operated continuously without damage.

Corrosion Resistant: Electro-coated paint process is applied inside and out, then baked on.

Protected Mechanical Seal: Special diaphragm design retains water in the casing at all times to ensure the mechanical seal can never run dry.

Excellent Air Handling Ability: After initial priming the pump has the ability to re-prime itself even when air gets into the system. Pumping resumes once the water level rises above the foot valve.

SYSTEM COMPONENTS

- **Basic Pump Unit:** Includes pump with integral shallow well jet (nozzle and venturi), motor, pressure switch and tubing.

AGENCY LISTINGS



Canadian Standards Association



Underwriters Laboratories®

MODEL INFORMATION

CSA Listed Order No.	U.L. Listed (Indoor use)® Order No.	HP
J5S	J5SUL	½
J5SH	J5SHUL	½
J7S	J7SUL	¾
J10S	J10SUL	1
J15S	J15SUL	1½

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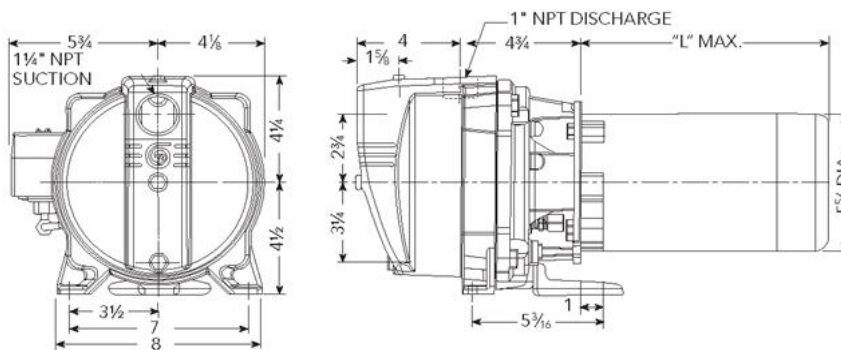
Residential Water Systems

SHALLOW WELL PERFORMANCE RATINGS

HP/Model	½ HP - J5S					½ HP - J5SH					¾ HP - J7S					1 HP - J10S					1½ HP - J15S																			
Nozzle	AN017					AN019					AN018					AN018					AN022																			
Venturi	AD3332					AD3328					AD3336					AD3339					AD3342																			
Total Suction Lift (feet)	Discharge Pressure - PSI										Discharge Pressure - PSI										Discharge Pressure - PSI										Discharge Pressure - PSI									
	20	30	40	50	Max. Shut off (PSI)	20	30	40	50	60	Max. Shut off (PSI)	30	40	50	60	Max. Shut off (PSI)	30	40	50	60	Max. Shut off (PSI)	30	40	50	60	Max. Shut off (PSI)														
	Gallons per minute					Gallons per minute					Gallons per minute					Gallons per minute					Gallons per minute																			
5	17.5	16.5	10.2	5.0	63	11.5	11.3	11.0	7.7	4.8	83	21.3	18.3	12.5	6.6	70	24.8	24.4	16.6	9.9	74	26.6	26.3	25.0	15.6	80														
10	15.7	14.4	9.2	4.3	61	10.3	10.0	9.6	7.0	4.2	81	18.8	17.3	11.3	5.0	68	22.9	22.2	15.8	8.6	72	24.7	24.3	22.6	13.9	77														
15	13.7	12.5	8.0	3.6	59	8.8	8.6	8.3	6.3	3.7	79	16.4	15.5	9.6	3.7	66	19.8	19.5	13.8	6.9	70	21.6	21.5	20.4	12.9	75														
20	11.5	10.4	7.1	2.3	57	7.0	7.0	6.8	5.8	3.2	76	13.6	13.2	8.3	2.0	63	16.6	16.6	12.2	5.6	67	18.1	18.0	17.6	12.0	73														
25	8.7	8.6	6.2	1.3	54	5.3	5.2	5.2	5.0	2.8	73	10.0	9.9	6.4	1.0	59	12.5	12.4	10.4	3.6	65	14.0	14.0	14.0	10.1	71														

DIMENSIONS AND WEIGHTS

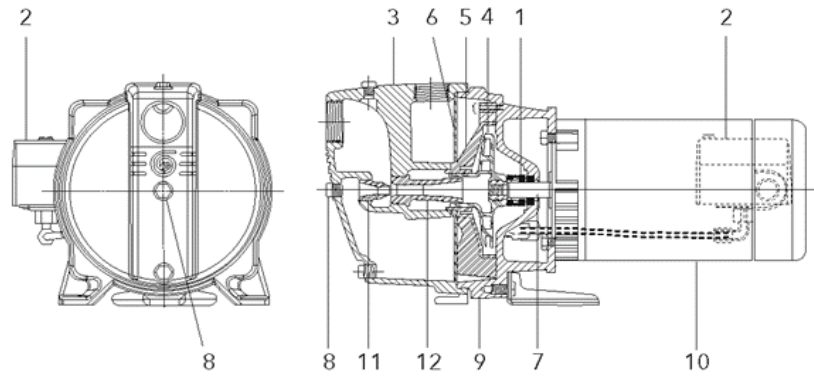
Model	J5S	J5SH	J7S	J10S	J15S
Wt. (lbs.)	43	43	47	50	60
Length	17¼	17¼	18¼	18¾	19¼
Width	9⅞				
Height	8¾				
HP	½	½	¾	1	1½
"L" Max.	8½	8½	9½	10	10½



(All dimensions are in inches and weights in lbs. Do not use for construction purposes.)

COMPONENTS

Item No.	Description
1	Mechanical seal
2	Pressure switch
3	Casing
4	Impeller
5	Diffuser (Guidevane)
6	Diaphragm
7	Stainless steel shaft
8	Nozzle clean-out plug
9	Motor adapter
10	Motor
11	Nozzle
12	Venturi (diffuser)



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Goulds Water Technology

Residential Water Systems

FEATURES

Horizontal Models: Feature a universal jet pump bracket and two (2) bolt-on, corrosion-resistant, high density polypropylene feet for installations with limited headspace, such as under mobile homes.

Deep Drawn Steel Shells: Provide maximum material strength.

Inner Shell: Prevents diaphragm from over-expanding.

Heavy Duty Diaphragm: Made of finest quality butyl rubber. Separates air and water, maintains air charge.

Interior Tank Lining:

- Stand models feature durable polypropylene liner. Meets FDA requirements.
- Mounted pump models feature fusion bonded polymeric lining. Meets FDA requirements.

Maximum Working Pressure: 125 psi (except mounted pump models, 100 psi).

Temperature Rating: Maximum 120° F

Stainless Steel System Connection: On all Stand, In-Line, Buried and Horizontal models.

Appliance Appearance Exterior Finish: Blue color, high durability exterior finish of tough, powder coat over a zinc phosphate surface treatment.

Tanks are designed for installation indoors or where they are protected from rain, irrigation overspray, salt air and other corrosive environments. Always protect tanks from freezing.

Heavy Duty Base: Made of high density polypropylene.

Pre-charge: All tanks charged to 38 PSI.



Goulds Water Technology

Residential Water Systems

Models	Model No.	Total Volume (Gals.)	Drawdown in Gallons at System Operating Pressure Range of			Maximum Drawdown Vol. (Gals.)	Pre-Charge PSI	System Connection	Dimensions		Shipping Weight	Height From Floor to Center of Base Opening
			20/40 PSIG	30/50 PSIG	40/60 PSIG				Diameter	Height		
Stand Models	V45	13.9	5.1	4.3	3.7	8.4	38	1" NPTF	15 3/8"	24 1/8"	23	3 1/2"
	V60	19.9	7.3	6.1	5.3	12.1	38	1" NPTF	15 3/8"	32 3/8"	34	
	V80	25.9	8.9	7.7	6.7	13.9	38	1" NPTF	15 3/8"	39 3/8"	43	
	V80EX	25.9	8.9	7.7	6.7	13.9	38	1" NPTF	15 3/8"	42 3/8"	43	
	V100	31.8	11.8	9.9	8.6	13.8	38	1" NPTF	15 3/8"	47 1/4"	52	3 1/2"
	V100S	31.8	11.8	9.9	8.6	13.8	38	1" NPTF	22"	28"	56	3 1/2"
	V140	45.2	16.5	13.9	12.1	27.3	38	1 1/4" NPTF	22"	36 3/8"	64	
	V200	65.1	23.9	20.0	17.4	39.3	38	1 1/2" NPTF	22"	48 3/8"	89	
	V250	83.5	30.9	25.9	22.5	50.8	38	1 1/2" NPTF	26"	46"	116	
	Stand Models	V260	84.9	31.2	26.2	22.8	44.7	38	1 1/2" NPTF	22"	60 1/8"	113
V350		115.9	42.9	35.9	31.3	70.5	38	1 1/2" NPTF	26"	61 3/8"	161	3 1/2"
Mounted Pump Models*	V45MP	13.9	5.1	4.3	3.7	8.4	38	3/4" Pipe	15 3/8"	25 1/8"	28	
	V60MP	19.9	7.3	6.1	5.3	12.1	38	3/4" Pipe	15 3/8"	33 1/8"	40	
	V45PST	13.9	5.1	4.3	3.7	8.4	38	3/4" Pipe	15 3/8"	25 1/8"	28	
	V60PST	19.9	7.3	6.1	5.3	12.1	38	3/4" Pipe	15 3/8"	33 1/8"	40	
Buried Models	V60B	19.9	7.3	6.1	5.3	12.1	38	1" NPTM	15 3/8"	28 1/8"	33	
	V140B	45.2	16.5	13.9	12.1	27.3	38	1 1/4" NPTM	22"	32 3/8"	63	
In-Line Models	V6P	2.0	0.7	0.6	0.5	1.2	38	3/4" NPTM	8"	11 1/8"	8	
	V15P	4.5	1.7	1.4	1.2	2.7	38	3/4" NPTM	11"	13 1/8"	12	
	V25P	8.2	3.1	2.6	2.2	4.5	38	3/4" NPTM	11"	23 1/8"	21	
	V45P	13.9	5.1	4.3	3.7	8.4	38	1" NPTM	15 3/8"	21 3/8"	24	
Horizontal Models w/Bracket	V25H	8.2	3.1	2.6	2.2	4.5	38	3/4" NPTM	11"	24 3/8"	23	
	V45H	13.9	5.1	4.3	3.7	8.4	38	1" NPTM	15 3/8"	22 3/8"	26	
	V60H	19.9	7.3	6.1	5.3	12.1	38	1" NPTF	15 3/8"	33 3/8"	36	

NOTES:

* Compatible with only certain Goulds jet pumps.

P = Pipe mounted EX = With base extension B = Buried
 MP = Mounted pump PST = Pump system tank H = Horizontal with bracket

(All dimensions are in inches and weight in lbs. Do not use for construction purposes.)

ACCESSORIES



AW39 Bracket:
 Universal pump mounting bracket for use on all stand model tanks.



AWT1 Base Extension:
 For use on 15 3/8" models. Provides 4 1/8" base elevation. Supplied in quantities of six (6) per carton.

Order No.	Description	Wt. (lbs.)
AW39	Universal Jet Pump Bracket	2
AWT1	Tank Base Extension (Qty. 6)	5

DUNCAN STUART TODD, LTD.

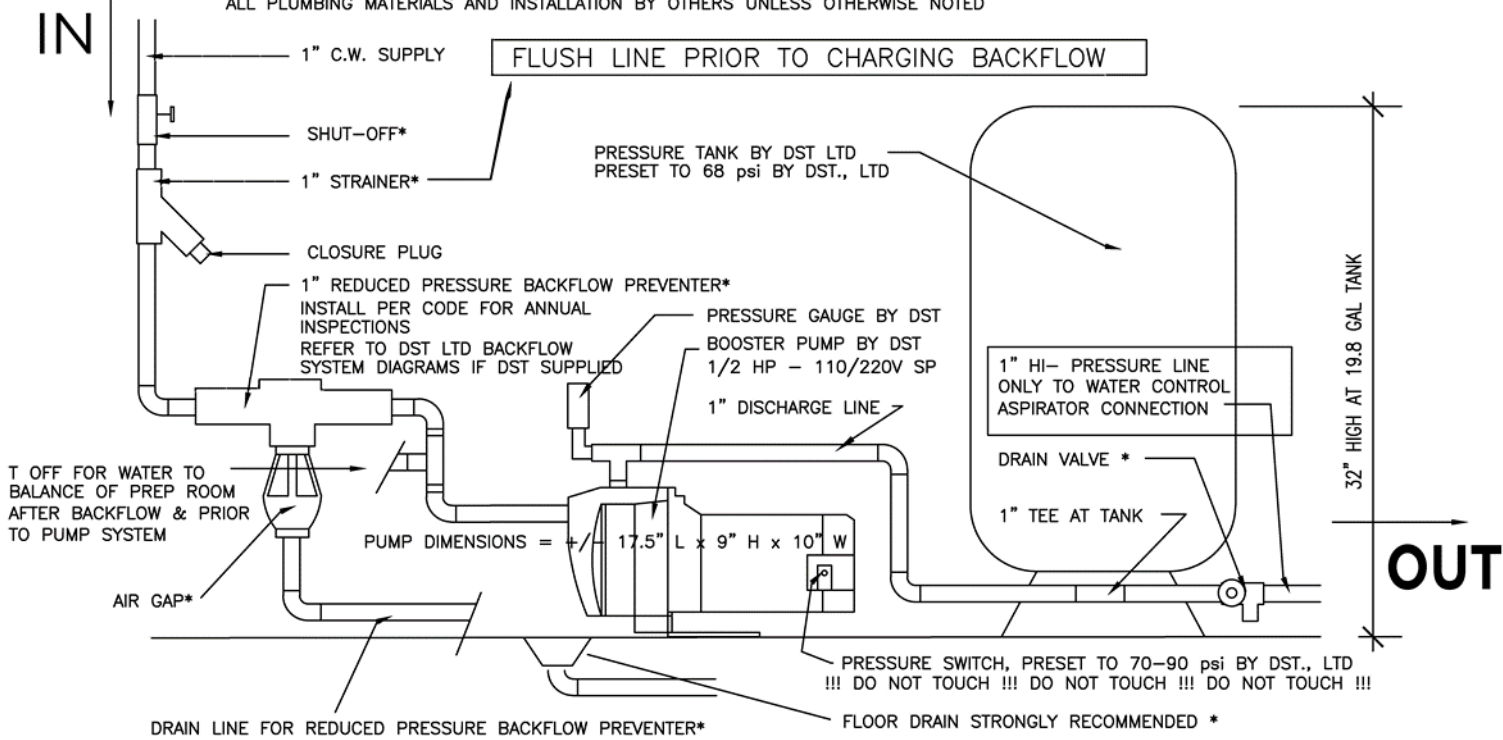
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ALL PLUMBING MATERIALS AND INSTALLATION BY OTHERS UNLESS OTHERWISE NOTED



* = RECOMMENDED ITEM

DO NOT ADJUST PRE-SET SWITCH SETTINGS

FOR VOLUME PRESSURE PUMP MAX LOAD AMPS @ 115V = 8.6. @ 230v = 4.3.

VOLUME PRESSURE CONTROL SYSTEM

BY OTHERS = SUPPLIED AND INSTALLED BY OTHERS
 BY DST, LTD = SUPPLIED BY DUNCAN STUART TODD, LTD INSTALLED BY OTHERS
 * = DST, LTD RECOMMENDED ITEM BY OTHERS OR AVAILABLE ON REQUEST

ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS & DST, LTD INSTRUCTIONS

DRAWING

VPK 1
 DATE: 6/12