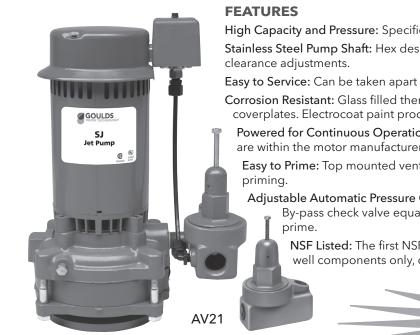


# **TECHNICAL BROCHURE**

BSJ R2



High Capacity and Pressure: Specifically designed to deliver high capacities at deeper settings. Stainless Steel Pump Shaft: Hex design provides positive drive for impellers and eliminates

Easy to Service: Can be taken apart for service by removing four bolts.

Corrosion Resistant: Glass filled thermoplastic impellers. Stainless steel wear rings and coverplates. Electrocoat paint process applied inside and out and then baked on.

Powered for Continuous Operation: Pump is designed for continuous operation. All ratings are within the motor manufacturer's recommended working limits.

Easy to Prime: Top mounted vent plug allows air to escape from seal cavity during initial

Adjustable Automatic Pressure Control Valve: Guarantees maximum capacity at all times. By-pass check valve equalizes pressure in entire system and helps prevent loss of

NSF Listed: The first NSF listed jet pumps in the industry. All jet pumps and shallow well components only, deep well components are not listed.

**NOW NSF LISTED!!** 

SJ

**60 HZ VERTICAL JET PUMPS DEEP WELL** 



DRINKING WATER NSF/ANSI 61 & 372

Still...

**BUILT IN THE** 



## **Residential Water Systems**

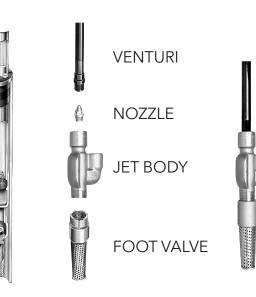
### **PERFORMANCE RATINGS – TWIN PIPE SYSTEMS**

HP/Model		3/	4 HP - SJ	07		1 HP - SJ1	0	1	1⁄2 HP - SJ1	5	2 HP - SJ20				
Well Casing Min. I.D. in.		4													
Pressure		1													
Suction	Size (in.)	1¼													
Jet Assembly Package ①		FT4-48	FT4-47	FT4-06	FT4-47	FT4-24	FT4-08	FT4-45	FT4-30	FT4-29	FT4-45	FT4-30	FT4-29		
Jet Body (Only)	,	AT4													
Nozzle		AN012	AN013	AN014	AN013	AN015									
Venturi		AD727	AD724	AD720	AD	724	AD720	AD726	AD722	AD719	AD726	AD722	AD719		
Control Valve Setting (PSI) ②		37 4		40		43		62	65	67	76	78	80		
	Feet				Gallons F	Per Minute	e (GPM) 3	0-50 Press	sure Switch	n Setting					
	30	15.2			16.0			13.0			13.0				
	40	13.5			15.2			13.0			13.0				
~	50	11.8			14.7			13.0			13.0				
eet	60	10.7			13.7			12.8			12.8				
<del>م</del> ح	70	8.5	9.0		11.7	11.7		12.2			12.8				
nbl of	80		7.5			10.5		10.6			12.0				
sser	90		6.2	6.2		9.0		9.2	9.3		11.3				
t A: rge	100			5.8		7.5			9.0		9.5	9.5			
				5.0		6.3	6.0			8.0			9.4		
h tc sub	120			4.6			5.0			7.0			8.5		
Depth to Jet Assembly (based on submergence of 5 feet)	130			4.0			4.3			6.2	5.8		7.7		
	140						4.0			<b>F</b> 0	5.6	( 0	6.8		
	150 160						3.5			5.2 4.7		6.0	5.7 5.5		
U	170									4.7			5.5		
	180									3.7			5.0		
	190									3.7			4.7		
	200									0.2			3.8		

NOTE: An offset of 50 feet will result in a decrease of about 25% from ratings as shown.

① Jet assembly package includes jet body (AT4), venturi, nozzle and foot valve.

② Deep well jet pumps require a pressure control device on the discharge to provide back pressure to the jet assembly. Failure to control the amount of discharge by adjusting the back pressure (pressure control valve setting) will cause the pump to lose prime. On pumps with low control valve settings, up to 40 psi, a simple ball valve or AV15 will work. On systems with control valve settings of 40 - 80 psi an AV22, AV22KIT or AV21 is required. They measure the pressure on the outbound side so that the high pressure does not open the 30-50 psi switch and turn the pump off.



## **Residential Water Systems**

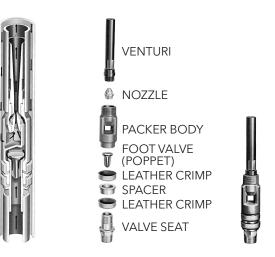
## **PERFORMANCE RATINGS – PACKER SYSTEM**

HP/Model Well Casing In.		34 HP SJ07					1 HP SJ10				1½ HP SJ15						2 HP SJ20						
			2		3		2		2		3		2		3			2			3		
Suction	Pipe Size (in.)		11⁄4	_	1	1⁄2		1¼		1	1⁄2		1¼	_		1½			1¼	_		1½	
Jet Ass Packag		FP2-51	FP2-50	FP2-06	FP3-40	FP3-42	FP2-50	FP2-07	FP2-08	FP3-40	FP3-49	FP2-49	FP2-30	FP2-29	FP3-47	FP3-46	FP3-34	FP2-49	FP2-30	FP2-29	FP3-47	FP3-46	FP3-34
Jet Bo (Only)			AP2		A	P3		AP2		A	P3		AP2	1		AP3			AP2	1		AP3	
Nozzle	•	AN012	AN013	AN014	AN013	AN014	AN013	AN014	AN015	AN013	AN015						ANG	)13					
Ventur	i	AD727	AD724	AD720	AD724	AD722	AD7	724	AD720	AD724	AD723	AD726	AD722	AD719	AD727	AD722	AD719	AD726	AD722	AD719	AD727	AD722	AD719
Pressur Contro Setting	l Valve		40		36	4	.0	4	5	40	43	62	65	67	62	64	66	76	78	80	75	78	80
	Feet							Ga	llons	Per M	inute	30-50	) Pres	sure S	witch	Setti	ng						
	30	14.9			15.3		15.8			16.3		13.0			14.7			13.0			14.7		
	40	13.1			13.5		14.0			16.0		13.0			14.5			13.0			14.7		
	50	11.6			12.5		12.5			15.5		12.9			14.3			13.0			14.7		
	60	10.5			12.2		11.2	11.3		14.2		12.7			14.3			13.0			14.5		
	70	8.4	8.8		11.8			10.0		12.5		11.8			14.2			12.8			14.5		
et)	80		7.6		10.2	8.5		8.7		10.0		10.2			12.2			11.8			13.5		
5	90		6.1	6.2		7.8		7.3		8.3	9.0	8.3	9.1		10.0			10.5			12.7		
of a	100			5.7		6.9		5.5			8.2		8.3		7.8	9.1		8.5	9.1		10.5		
sser	110			4.3		6.0		4.2	4.8		7.3		7.3			8.8			8.9		8.3	9.1	
t A: rge	120			3.8		5.3			4.0		6.7		6.2			7.6			7.9			9.1	
Je De	130			2.2		4.5			3.5		5.8		5.4	5.6		6.9			6.9			8.8	
sub sub	140								3.0		4.8			5.3		6.2			6.0			8.2	
Depth to Jet Assembly (based on submergence of 5 feet)	150								2.4		4.1			4.8		5.4	5.6		5.2	5.6		7.3	
sed	160													4.3			5.5			5.4		6.5	
(pa	170																5.0			4.9		5.7	5.7
	180																4.7			4.3			5.6
	190																4.3			3.8			5.5
	200																3.8			3.3			5.3
	210																3.3						4.8
	220																						4.5
	230																						4.0

NOTE: An offset of 50 feet will result in a decrease of about 25% from ratings as shown. Special turned (diameter) couplings are required on 2" packer systems, order no. 64655 in Jet and Sub price book.

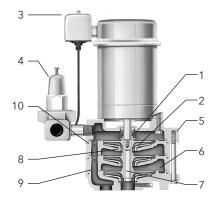
① Jet Assembly Package includes jet body, AP2 or AP3; built-in check valve, nozzle and venturi.

② Deep well jet pumps require a pressure control device on the discharge to provide back pressure to the jet assembly. Failure to control the amount of discharge by adjusting the back pressure (pressure control valve setting) will cause the pump to lose prime. On pumps with low control valve settings, up to 40 psi, a simple ball valve or AV15 will work. On systems with control valve settings of 40 - 80 psi an AV22, AV22KIT or AV21 is required. They measure the pressure on the outbound side so that the high pressure does not open the 30-50 psi switch and turn the pump off.



#### **COMPONENTS**

Item No.	Description
1	Mechanical seal
2	Corrosion resistant impellers
3	Pressure switch
4	Pressure control valve
5	Rugged cast iron construction
6	Electro-coat paint
7	Stainless steel hex shaft
8	Stainless steel wear rings
9	Stainless steel cover plates
10	O-ring seals



#### AGENCY LISTINGS



Canadian Standards Association



Underwriters Laboratories (1)



DRINKING WATER NSF/ANSI 61 & 372

### **DIMENSIONS AND WEIGHTS**

HP/Model	¾-SJ07	1-SJ10	1½-SJ15	2-SJ20		
Stages	2	2	3	3		
Weight	58	63	77	88		
Length	14	14	14	14		
Width	8	8	8	8		
Height	15½	16	20	201⁄2		

Pressure Control Valve included in dimensions.

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

## APPLICATIONS

Specifically designed for:

- Homes
- Farms
- Cottages

#### SPECIFICATIONS

Pipe connection – 1" NPT drive (pressure) 1¼" NPT suction 1" NPT discharge

Pressure switch – ¾-1½ HP, AS4 2 HP, AS10 both preset (30-50 PSI)

- NEMA standard
- ¾-1½ HP, 115/230 V, 60 Hz, capacitor start
- 2 HP, 230 V only, 60 Hz
- Single phase
- 3500 RPM
- Built-in overload with automatic reset
- Stainless steel shaft
- Rotation: clockwise when viewed from motor end.

140° F

#### REQUIRED SYSTEM COMPONENTS

- Basic Pump Unit: Includes pump, motor, pressure switch, tubing, fittings, pressure gauge, bushing and AV21 pressure control valve.
- Deep Well Jet Assembly Package: Twin Pipe includes: Jet body, nozzle, venturi and foot valve. Packer includes: Jet body with builtin check valve, nozzle and venturi.
- Additional Accessories Required: For Packer: well casing adapter AWD2 (2") or AWD3 (3").

## **MODEL SJ**

For twin pipe or packer systems.



#### **MODEL INFORMATION**

CSA Listed Order No.	U.L. Listed (Indoor use) ① Order No.	НР	Stages
SJ07	SJ07UL	3⁄4	2
SJ10	SJ10UL	1	2
SJ15	SJ15UL	11⁄2	3
SJ20	SJ20UL	2	3



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