



# ITT

## Residential Water Systems

# Goulds Pumps

## VJ 60 Hz Vertical Jet Pumps Deep Well



### FEATURES

- **High Capacity:** Specifically designed to deliver water at high capacities.
- **Easy to Service:** Can be taken apart for service by removal of four bolts. Pipes do not have to be disturbed when service is required.
- **Powered for Continuous Operation:** Pump is designed for continuous operation. All ratings are within the motor manufacturer's recommended working limits.
- **Corrosion-Resistant:** Electrocoat paint process is applied inside and out and then baked on.
- **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 prime.
- **Easy to Prime:** The VJ series incorporates a vent at the highest point of the casing, including the mechanical seal chamber, for a more thorough air purging, and fast, efficient priming.



### AGENCY LISTINGS

 Canadian Standards Association

 Underwriters Laboratories<sup>®</sup>

Goulds Pumps is ISO 9001 Registered.

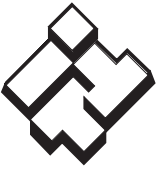
Goulds Pumps is a brand of ITT Corporation.

[www.goulds.com](http://www.goulds.com)

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### MODEL INFORMATION

CSA Listed Order No.	U.L. Listed (Indoor use) <sup>①</sup> Order No.	HP
VJ05	VJ05UL	1/2
VJ07	VJ07UL	3/4
VJ10	VJ10UL	1



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## GOULDS PUMPS Residential Water Systems

### APPLICATIONS

Specifically designed for:

- Homes
- Farms
- Cottages

### SPECIFICATIONS

#### Pump:

Pipe connection:

- 1" NPT drive (pressure)
- 1 1/4" NPT suction
- 1" NPT discharge.

Pressure switch:

AS4, preset (30-50 PSI).

#### Motor:

- NEMA standard.
- 1/2-1 HP, 115/230 V, 60 Hz, capacitor start.
- Single phase, 3500 RPM.
- Built-in overload with automatic reset.

- Stainless steel shaft.
- Rotation: clockwise when viewed from motor end.

**Maximum temperature:** 140°F.

### REQUIRED SYSTEM COMPONENTS

- **Basic Pump Unit:** Includes pump, motor, pressure switch, tubing, fittings, pressure gauge, bushing and pressure control valve (AV21).
- **Deep Well Jet Assembly Package:** Twin Pipe includes: Jet body, nozzle, venturi and foot valve. Packer includes: Jet body with built-in check valve, nozzle and venturi. See Performance Charts on following pages for Jet Assembly package order numbers.

### ADDITIONAL ACCESSORIES REQUIRED

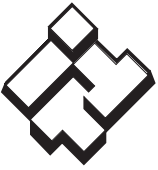
For Packer: well casing adapter AWD2 (2") or AWD3 (3"). Must be ordered separately.

### PERFORMANCE RATINGS – TWIN PIPE SYSTEMS

HP/Model	1/2 HP-VJ05			3/4 HP-VJ07			1HP-VJ10		
Well Casing Min. I.D. (In.)	4								
Pressure Suction	1								
Pipe Size In.	1 1/4								
Jet Assembly Package (1)	FT4-46	FT4-08	FT4-47	FT4-46	FT4-06	FT4-14	FT4-09		
Jet Body (only)	AT4								
Nozzle	AN014	AN015	AN013	AN014		AN017	AN015		
Venturi	AD722	AD720	AD724	AD722	AD720	AD729	AD721		
Control Valve Setting (PSI)	23			34		40	34	36	
	Feet	Gallons per Minute 30-50 Pressure Switch Setting							
Depth to Jet Assembly (based on submergence of 5 feet)	30	12.2		15.2			18.8		
	40	11.7		13.2			16.7		
	50	10.0		11.7			15.0		
	60	8.2	8.3	9.7	10.0		12.7		
	70		5.8		8.3		10.0		
	80		5.0		7.1		7.9		
	90		3.8		5.8	5.8	5.3	5.8	
	100					5.0		5.0	
	110					3.8		4.6	
	120							3.3	

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

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

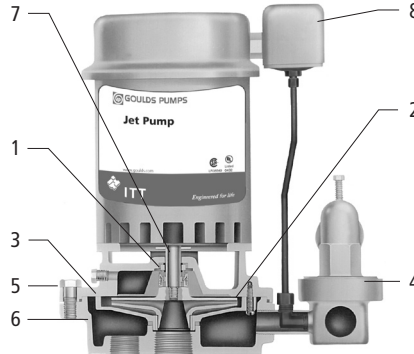


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## GOULDS PUMPS Residential Water Systems

### COMPONENTS

Item No.	Description
1	Mechanical seal
2	Impeller
3	Diffuser (Guidevane)
4	Pressure control valve
5	Motor adapter
6	Casing
7	Stainless steel shaft
8	Pressure switch



### DIMENSIONS AND WEIGHTS

HP/Model	1/2-VJ05	3/4-VJ07	1-VJ10
Weight	50	53	56
Length	12 3/4		
Width	12 3/4		
Height	13 1/2	14 1/4	14 3/4

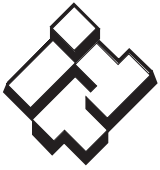
Pressure control valve not included in dimensions.  
(All dimensions are in inches and weights in lbs.  
Do not use for construction purposes.)

### PERFORMANCE RATINGS – PACKER SYSTEM

HP/Model		1/2 HP-VJ05				3/4 HP-VJ07				1HP-VJ10					
Well Casing (In.)		2		3		2		3		2		3			
Suction	Pipe Size In.	1 1/4		1 1/2		1 1/4		1 1/2		1 1/4		1 1/2			
		Jet Assembly Package (1)		FP2-38	FP2-08	FP3-42	FP3-09	FP2-50	FP2-47	FP2-09	FP3-40	FP3-43	FP2-48	FP2-43	FP2-08
Jet Body (only)		AP2		AP3		AP2		AP3		AP2		AP3			
Nozzle		AN014	AN015	AN014	AN016	AN013	AN015		AN013	AN014	AN016		AN015		
Venturi		AD722	AD720	AD722	AD721	AD724	AD723	AD721	AD724	AD721	AD729	AD725	AD720	AD724	AD723
Control Valve Setting (PSI)		23				34				36		34	36		
Feet		Gallons per Minute 30-50 Pressure Switch Setting													
Depth to Jet Assembly (based on submergence of 5 feet)	30	12.2		12.5		15.2			15.8		18.8			18.8	
	40	10.8		11.3		13.2			13.7		16.7			16.7	
	50	9.0		10.0		11.3			11.7		14.2			15.0	
	60	7.5	7.7	8.2	8.3	9.3	10.3		10.0	10.3	11.7	11.0		12.5	
	70		5.5		6.8		8.7			9.6		9.3		10.0	
	80		4.6		5.8		6.8			8.2		7.7		8.3	
	90		3.4		4.3		5.3			6.7		5.7		6.3	6.5
	100				3.5		4.0	4.2		5.4		4.6	4.6		5.8
	110								3.3	4.3			3.3		5.0
	120								2.3	3.3			2.9		4.2
	130									2.9					3.3
	140														2.9

(1) Jet assembly package includes: jet body, diffuser/venturi, nozzle, built-in check valve, leather crimps, spacer and fittings.

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



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SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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