

ITT

Residential Water Systems

Goulds Pumps

JRS5X, JRS5K, JRS5L,
JRD5X, JRD5K, JRD5L
Pump and Tank Packages



Goulds Pumps is a brand of ITT Corporation.

www.goulds.com

Engineered for life

TANK FEATURES

- **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:** Fusion bonded polymeric lining (durable polypropylene liner used on V15P). Both meet FDA requirements.
- **Maximum Working Pressure:** 100 PSI for V45PST and V60PST, 125 PSI for V15P.
- **Temperature Rating:** Maximum 140° F.
- **Appliance Appearance Exterior Finish:** High durability exterior finish of tough, powder coat over a zinc phosphate surface treatment.
- **Heavy Duty Base:** Eliminates corrosion due to condensation and exposure to the elements. Made of high density polypropylene.



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APPLICATIONS

Home, farm and cottage water systems and booster service.

PUMP SPECIFICATIONS

Pump:

- Pipe connections:
 - 1" NPT pressure
 - 1 1/4" NPT suction
 - 1" NPT discharge.
- Pressure switch:
 - AS4FX preset 30-50 PSI

Motor:

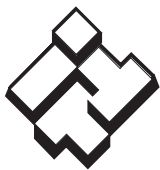
- NEMA service factor.
- 60 Hz.
- 1/2 HP, 115/230 V capacitor start.
- 3500 RPM.
- Built-in overload with automatic reset.
- Stainless steel shaft.

ORDER INFORMATION

Model No.	HP	Replacement Pump Model No.	Tank Model	Drawdown at	
				20/40 PSI	30/50 PSI
JRD5X	1/2	JRD5	V15P	1.7	1.4
JRD5K	1/2	JRD5LT	V45PST	5.1	4.3
JRD5L	1/2	JRD5LT	V60PST	7.3	6.1
JRS5X	1/2	JRS5	V15P	1.7	1.4
JRS5K	1/2	JRS5LT	V45PST	5.1	4.3
JRS5L	1/2	JRS5LT	V60PST	7.3	6.1

PUMP FEATURES

- JRS models have an integral shallow well jet built into the casing, which eliminates the need for a separate shallow well adapter.
- JRD models require a deepwell jet assembly package that must be ordered SEPARATELY.
See twin pipe performance rating chart for jet assembly package order number.
- **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.
 - Corrosion resistant, engineered plastic tubing and fittings are easily removed for cleaning. Premium o-ring design fittings need only be hand tight to seal.
- **Powered for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits. Can be operated continuously without damage.
- **Corrosion Resistant:** Electro-coat paint is applied inside and out, then baked on.
- **Excellent Air Handling Ability:** After initial priming the pump has the ability to re-prime itself even when air gets into the system.
- **Drain Plug:** For ease of winterizing and maintenance.
- **Seal Housing:** Engineered composite. Corrosion and abrasion resistant.
- **Impeller:** F.D.A. compliant, glass filled Noryl®.
- **Diffuser (Guidevane):** F.D.A. compliant, injection molded, food grade, glass filled Lexan®.



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PERFORMANCE RATINGS

Shallow Well Systems

HP/Order No.	½ HP-JRS5				
Nozzle	AN018				
Venturi	AD3330				
Total Suction Lift (Feet)	Discharge Pressure – PSI				Max. Shut-off (PSI)
	20	30	40	50	
	Gallons Per Minute				
5	14.1	13.3	10.5	5.8	64
10	12.4	12.0	9.2	4.2	59
15	10.5	10.0	8.0	2.4	56
20	8.6	8.5	6.6	1.0	53
25	6.7	6.5	5.0	0.6	51

Twin Pipe Systems

HP/Model		½ HP - JRD5				
Jet Assembly Package (2)		FT3-09	FT4-13	FT4-31	FT4-08	FT5-14
Well Casing Min. I.D. (in.)		3	4			4½
Pressure	PIPE SIZE (IN.)	¾	1			1¼
Suction		1	1¼			1½
Jet Body (only)		AT3	AT4			AT5
Nozzle		AN015	AN017	AN016	AN015	AN018
Venturi		AD722	AD726	AD723	AD720	AD724
Control Valve Setting (PSI)		30				
Feet		Gallons Per Minute (GPM) 30-50 PSI Pressure Switch Setting				
Depth to Jet Assembly (Based on Submergence of 5')	30	6.4	11.7	10.0		
	40	5.7	10.7	8.0		
	50	4.3	9.3	6.8		
	60			6.2	4.7	
	70			5.0	4.2	5.0
	80				3.3	4.3
	90				2.8	3.7

(1) Jet Assembly Package includes: Jet Body, Venturi, Nozzle, Foot Valve

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

JRS5 PERFORMANCE CURVE (At 0' Suction Lift)





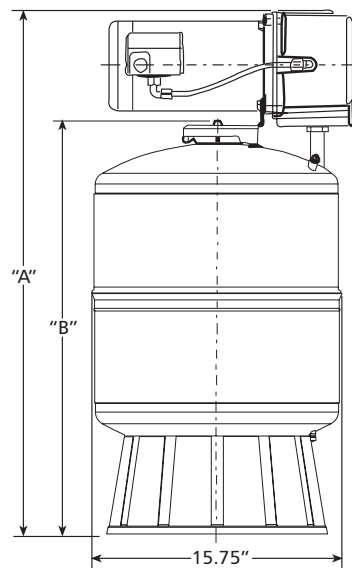
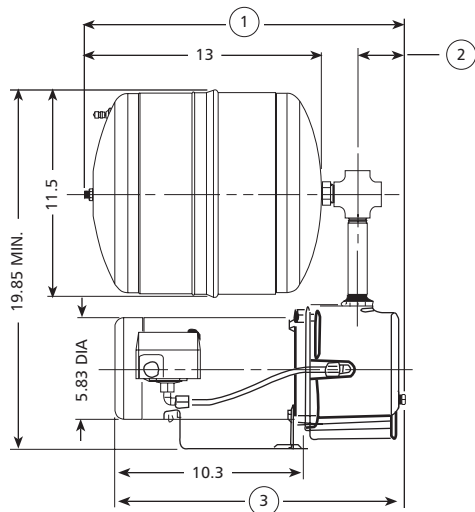
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SYSTEM DIMENSIONS

Model	Tank	Tank Wt. (lb.)	Total Wt. (lb.)	①	②	③
JRD5X	V15P	12	43	17.5	2.5	15.6
JRS5X	V15P	12	43	18.5	3.5	16.7

Model	A (in.)	B (in.)	Tank	Tank Wt. (lb.)	Total Wt. (lb.)
JRD5K	32.5	25.5	V45PST	28	58
JRD5L	40	33	V60PST	40	70
JRS5K	33.0	24.5	V45PST	28	58
JRS5L	40.5	32.0	V60PST	40	70



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