

Belt Driven Jet Pumps

MODELS J5BD, J7BD, J10BD, J15BD & HSJ20BDD



FEATURES

Cast iron construction.

Shallow well or deep well jet assemblies available.

Glass-filled Noryl® impellers.

Glass-filled Lexan® diffusers.

Serviceable back-pull out pump design.

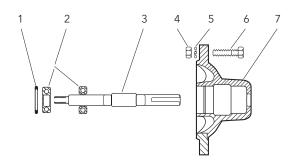
Use with gasoline engine in areas where electricity is unavailable. Gasoline engines sourced from others.

Performance based on motor running at 3500 RPM.

Use performance charts to select appropriate shallow well or deep well jet assemblies.

Minimum motor requirements are shown on motor HP Chart

BEARING HOUSING ASSEMBLY J_BD, HSJ_BD



Item No.	Part Name	Part No.
1	Retaining Ring	4K133
2	Ball Bearing	4K24
3	Shaft	4K134
4	Hex Nut	13K89
5	Lock Washer	13K90
6	Hex Bolt	13K88
7	Bearing Housing	4K130

APPLICATIONS AND SPECIFICATIONS

The Belt Driven jet pumps are sold less the required shallow or deep well jet assemblies. Order jet assemblies separately. Use the attached performance charts to select the appropriate jet assembly. Performance will be equal to that published on standard literature when the shaft is turned at 3500 rpm. Slower speeds will adversely affect flow and pressure and may also affect priming capability. Speeds over 3600 rpm may damage internal pump components and bearings and will void the warranty.

As with any jet pump a foot valve or check valve is recommended to hold prime. Always prime the pump, that is, completely fill it with water, before operating to prevent impeller or seal damage.

Motor HP should be equal to or greater than the minimum HP per the chart below. In some cases a higher HP motor may be needed to maintain 3500 RPM's. Pump shaft at motor connection is a $\frac{5}{4}$ " diameter shaft with $\frac{3}{4}$ 6" key slot.

Note: Customers experienced with these pumps recommend, as a minimum, a 3 HP good quality gasoline engine for all models, this will provide reliable service, good priming, increased engine life and the required rpm in most installations.

Pump prices are now included in the standard Jet and Submersible Price Book, PJETSUB, in the J+ and HSJ tables.

Basic pump repair parts and diagrams may be found in the J+ or HSJ repair part pages.

The bearing frame assembly typical replacement parts are:

Bearing Frame (complete) assembly - 4K129 (consider replacing entire pump if bad)

Shaft - 4K134

Bearing (1) - 4K24

MOTOR HP CHART

Order No.	Minimum Engine HP
J5BD	1
J7BD	1
J10BD	1
J15BD	1.5
HSJ20BDD	3

Goulds Water Technology

Residential Water Systems

SHALLOW WELL PERFORMANCE RATINGS

HP/Model		1/2	HP -	J5		½ HP - J5					3/4 HP - J7				1 HP - J10					1½ HP - J15						
Shallow Well Package			FH5			FH5H (High Pressure Model)						FH7				FH10					FH15					
Adapter														4K62												
Nozzle		A	4N01	7		AN019						AN018			AN018					AN022						
Venturi		Д	D373	731 AD352					528				Α	D353	36		AD3538					AD3542				
	Dis	charg	e Pres	sure -	- PSI		ischa	rge P	ressu	re - P:	SI	Dis	charg	e Pres	sure -	- PSI	Discharge Pressure - PSI				- PSI	Discharge Pressure - PSI				- PSI
-	20	30	40	50	Max. Shut	20	30	40	50	60	Max. Shut	30	40	50	60	Max.	30	40	50	60	Max. Shut	30	40	50	60	Max. Shut
Total Suction Lift (feet)	Galle	ons p	er mi	nute	off	Ga	llons	per	minu	te	off (PSI)	Gall	Gallons per minute (PSI)			Gallo	ons p	er mi	nute	off	Gallo	ons p	er mi	nute	off	
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

TWIN PIPE PERFORMANCE RATINGS

HP/Mod	del			1/2 H	P - J5			:	¾ HP - J	7			1	1½ HP - J15				
Well Ca	Well Casing min. I.D.			4			4			4	1/2	4			41/2		41/2	
Pressure Pipe			1		11/4	1			11/4		1			11/4		11/4		
		Size (in.)		11/4		1½		11/4		11/2		11/4			11/2		11/2	
1 Jet Assembly Package		Package	FT4-13	FT4-31	FT4-08	FT5-14	FT4-14	FT4-34	FT4-18	FT5-47	FT5-48	FT4-44	FT4-43	FT4-18	FT5-49	FT5-11	FT5-12	FT5-11
Jet Bod	y (only)			AT4		AT5		AT4		A	T5		AT4		A	T5	A	Ť5
Nozzle				AN016										AN016				
Venturi			AD726	AD723	AD720		AD729					AD730		AD722	AD732			AD727
Control \	/alve Set	ting (PSI)	30	30	30	30	28	29	30	28	30	31	33	35	30	32	35	40
Feet								s Per M	inute (G		50 PSI P		Switch	Setting				
		30	13.0	11.0			15.8			16.6		17.0			19.3		21.2	
feet)		40	11.8	9.0			15.7			16.0		16.6			18.0		20.0	
- e		50		7.6		6.9	13.2			15.0		14.4			16.0		16.1	
ıbly of 5		60		7.0	5.2	6.4	10.2			13.0		11.5	11.2		14.3		15.0	
Assembl gence of		70			4.7	5.6		8.2		11.0	10.0		9.3		12.6		14.0	11.2
h to Jet Assen submergence		80			3.8	4.8		6.5			8.6		7.3	6.2	10.0	10.0		10.6
ğ ğ		90			3.1	4.1		5.0	5.0		7.3			6.1		8.7		9.0
Jet		100							4.4		6.0			5.4		7.0		7.6
함		110							3.5		5.0			4.5		5.7		6.2
		120														4.5		5.2
e pt		130																4.0
_ 0		140																2.8
De (based		150																1.5
9		160																
		170																

① Jet assembly package includes: jet body, nozzle, Venturi and foot valve.

PERFORMANCE RATINGS - SHALLOW WELL SYSTEM

HP/Model	2 HP - HSJ20N											
Shallow Well Package	FHSJ20											
Adapter				4K62								
Nozzle				ANO12								
Venturi				AD3448								
			Discharg	ge Press	ure - PS	ı						
	30	40	50	60	70	80	Max.					
Total Suction Lift (feet)		G	iallons p	er minu	er minute							
5'	28.2	28.0	25.8	22.7	21.2	16.2	105					
10'	24.8	24.7	24.2	23.3	18.7	13.7	103					
15'	21.3	21.3	20.8	20.7	18.7	13.7	101					
20'	18.0	17.7	17.5	17.0	16.2	10.8	98					
25'	12.3	12.0	11.9	11.7	10.5	_	95					

PERFORMANCE RATINGS -TWIN PIPE SYSTEMS - 4" WELL

HP/Model		2 HP - HSJ20N										
Jet Assembly Package (1)		FT4-45	FT4-29									
Pressure	Pipe	1"										
Suction	Size (in.)		11⁄4"									
Nozzle			AN013									
Venturi (D	iffuser)	AD726	AD722	AD719								
Pressure C Valve Sett		76	78	80								
	Feet		ons Per Minute (Pressure Switch									
	30	13.0										
_	40	13.0										
et)	50	13.0										
, te	60	12.8										
bly of 5	70	12.8										
Depth to Jet Assembly d on submergence of 5	80	12.0										
enc	90	11.3										
t A	100	9.5	9.5									
Je me	110		9.4									
to ub	120		8.5									
ptł n s	130		7.7									
D G	140		6.8									
Depth to Jet Assembly (based on submergence of 5 feet)	150		6.0	5.7								
(ba	160			5.5								
_	170			5.3								
	180			5.0								
	190			4.5								
	200			3.8								

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

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



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