

ITT

B45-70J

Residential Water Systems

Goulds Pumps

45J and 70J

60 Hz High Capacity Flat Bowl
6" Submersible Pumps

For 6" and larger wells



GOULDS PUMPS

Goulds Pumps is a brand of ITT Corporation.

www.goulds.com

Engineered for life

FEATURES

- **Powered for Continuous Operation:** All ratings are within the working limits of the motor manufacturer. Pump can be operated continuously without motor damage.
- **Completely Field Serviceable:** Easy to install and service. All parts easily dismantled if field service is ever necessary.
- **Diverse Application:** Designed for municipal and agricultural water needs.
- **Bearings:** Replaceable fluted bearings allow excellent abrasives handling and wear resistance.
- **Pump Shaft:** Stainless steel hex shaft.
- **Bowls:** Stainless steel flat bowl design.
- **Impellers and Diffusers:** Rugged thermoplastic construction resists mineral and algae deposits.
- **Coupling:** Heavy duty stainless steel, splined coupling for maximum load-carrying capability.
- **Suction Strainer:** Stainless steel strainer restricts gravel and other debris from entering the pump.
- **Cable Guard:** Stainless steel cable guard surrounds and protects motor leads.
- **Fasteners:** All fasteners are stainless steel.
- **NEMA Design Motors:** Stainless steel shell and end bells resist corrosion. Water filled design provides a constant supply of lubrication. Hermetically sealed stator assures moisture free windings. Durable Kingsbury type thrust bearing absorbs all thrust. Replaceable motor lead assembly.

Goulds Pumps is ISO 9001 Registered.

Goulds Pumps

45J and 70J 60 Hz High Capacity Flat Bowl 6" Submersible Pumps

SYSTEM COMPONENTS

■ **Pump/Water End:**

- 6" Pump with 2" NPT discharge.
- 4" Motor Adapter on 3 and 5 HP models.
- 6" Motor Adapter on 7.5 HP and larger models.

■ **Motor:**

- 4" motor required for 3 HP and 5 HP pumps.
- 6" motor required for 7.5 HP and larger pumps.

■ **Control Box:** Required for single phase (1Ø) motors.

- 4" Single Phase Motors: CentriPro or Franklin Electric, 4" single phase motors can use either CSCR or MC type control boxes.

- 6" CentriPro 1Ø Motors: Use only the CentriPro control boxes below:

<u>Motor</u>	<u>Control Box</u>
6M051	CB05MC
6M071	CB07MC
6M101	CB10MC
6M151	CB15MC

- **Magnetic Starter:** A magnetic starter with Class 10 overload protection is required for three phase units.

PUMPS, MOTORS AND CONTROLS MUST BE ORDERED SEPARATELY AND ARE PACKAGED SEPARATELY.

SPECIFICATIONS

Model	Horsepower Range	Recommended GPM Operating Range	GPM at Best Efficiency (B.E.P.)	Discharge Connection	Minimum Well Size	Rotation
45J	3 – 25	20 – 70	45	2" NPT	6"	CCW ^①
70J	3 – 25	25 – 100	70	2" NPT	6"	CCW ^①

① CCW – counterclockwise when looking into pump discharge.

WATER END (PUMP) DATA

Series	Order No.	Stages	Required Motor		Water End	
			HP	Diameter	Length	Weight (lb)
45J	45J03	3	3	4"	10.3	15
	45J05	5	5	4"	12.6	20
	45J07	7	7.5	6"	16.3	29
	45J10	10	10	6"	21.4	37
	45J15	15	15	6"	27.3	50
	45J20	20	20	6"	34.8	63
	45J25	25	25	6"	39.4	76
70J	70J03	2	3	4"	9.0	14
	70J05	4	5	6"	11.5	18
	70J07	6	7.5	6"	15.0	27
	70J10	9	10	6"	20.3	35
	70J15	13	15	6"	24.8	45
	70J20	17	20	6"	29.7	55
	70J25	21	25	6"	36.0	66

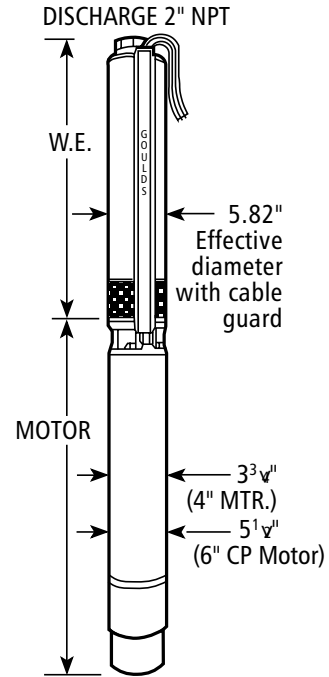
MOTOR DATA

NOTE: 4" Diameter motors are required for 3 and 5 HP "L" Series pumps
6" Diameter motors are required for 7.5 HP and larger "L" Series pumps.

CentriPro Motors

Single Phase Motors – Dimensions and Weights					
Motor Order No.	HP	Motor Dia.	Volts	Length (inches)	Weight (lbs)
M30412	3	4"	230	18.3	41
M50412	5	4"	230	27.7	70
6M071	7.5	6"	230	29.9	128
6M101	10	6"	230		
6M151	15	6"	230	33.5	148
Three Phase Motors – Dimensions and Weights					
M30432	3	4"	230	15.3	32
M30434			460		
M50432	5	4"	230	21.7	55
M50434			460		
6M072	7.5	6"	230	24.8	99
6M074	7.5	6"	460		
6M102	10	6"	230	27.0	110
6M104	10	6"	460		
6M152	15	6"	230	29.9	128
6M154	15	6"	460		
6M202	20	6"	230	31.5	137
6M204	20	6"	460		
6M252	25	6"	230	36.2	161
6M254	25	6"	460		

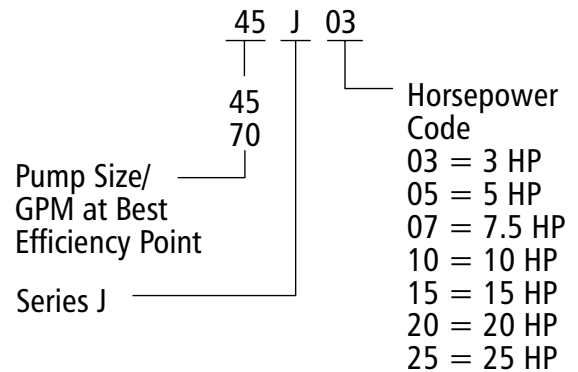
• 200V 6" motors are available now, call for availability.



"J" SERIES MATERIALS OF CONSTRUCTION

Part Name	Material
Shaft and Coupling	17-4 and 303 SS
Motor Adapter and Discharge Head	Silicon Bronze
Discharge Head Bearing	Viton
Shaft Sleeves	303 Series SS
Bowl	303 Series SS
Impeller	Noryl®
Diffuser	Lexan®
Casing	303 Series SS
Snap Ring	304 Series SS
Fasteners	303 Series SS
Cable Guard	303 Series SS
Suction Strainer	303 Series SS
Intermediate Bearing	Viton

ORDER NUMBER CODE



Goulds Pumps

45J and 70J 60 Hz High Capacity Flat Bowl 6" Submersible Pumps

Model 45J

SELECTION CHART

Horsepower Range 3 – 15, Recommended Range 20 – 70 GPM, 60 Hz, 3450 RPM

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																						
	HP	PSI	50	75	100	125	150	175	200	250	300	350	400	450	500	600	700	800	900	1000	1100		
45J03 3 Stages	3	0	70	67	62	57	51	44	35														
		20	63	57	52	45	36	20															
		30	58	52	46	39	20																
		40	52	48	38	25																	
		50	47	42	25																		
		60	42	25																			
45J05 5 Stages	5	0		70	69	68	64	61	58	51	42	29											
		20	70	67	64	61	59	55	52	43	29												
		30	68	64	62	59	56	52	48	38													
		40	65	62	59	56	52	48	44	32													
		50	62	59	56	52	48	44	39														
		60	59	56	53	48	44	39	32														
45J07 7 Stages	7.5	0				70	69	67	65	60	56	51	45	37	25								
		20		70	69	67	65	63	61	56	51	45	38	27									
		30	70	69	67	65	63	61	59	54	49	42	34										
		40	69	67	65	63	61	60	57	51	46	39	27										
		50	67	65	63	61	59	57	54	49	43	35											
		60	66	63	61	59	57	54	52	46	39	32											
45J10 10 Stages	10	0						70	69	67	64	61	58	54	51	41	28						
		20				70	69	68	67	66	63	60	57	53	49	44	33						
		30			70	69	68	67	66	64	61	58	55	51	47	42	29						
		40		70	69	68	67	66	64	63	60	57	53	49	45	40	25						
		50	70	69	68	67	66	64	63	60	57	53	49	45	40	25							
		60	70	68	67	66	64	63	62	58	55	51	47	42	37								
45J15 15 Stages	15	0								70	69	67	65	63	61	58	53	48	42	34	20		
		20								70	69	67	65	63	62	60	56	51	45	38	29		
		30								70	69	67	65	63	61	59	55	50	44	36	26		
		40							70	69	67	66	64	62	60	58	53	47	42	34	22		
		50						70	69	68	67	65	63	61	59	57	52	47	41	32			
		60				70	69	68	68	66	64	62	60	58	56	51	46	39	30				

Horsepower Range 20 – 25, Recommended Range 20 – 70 GPM, 60 Hz, 3450 RPM

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																			
	HP	PSI	300	350	400	450	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	
45J20 20 Stages	20	0				70	69	67	64	60	56	54	48	43	38	32	24			
		20				69	67	66	62	58	54	50	46	41	35	28				
		30			70	68	66	65	61	57	53	49	45	39	34	26				
		40			69	67	66	64	60	57	53	48	44	38	32	23				
		50	70	68	67	65	63	60	56	52	47	42	37	30						
		60	69	67	66	64	62	59	55	51	46	41	35	28						
45J25 25 Stages	25	0							69	66	63	60	57	54	50	46	42	37	31	20
		20							70	67	65	62	59	55	52	48	44	39	34	27
		30							70	67	64	61	58	55	51	47	43	38	33	24
		40						70	69	66	64	60	57	54	50	47	42	37	31	21
		50						70	68	66	63	60	57	53	50	46	41	36	30	
		60				70	69	68	65	62	59	56	52	49	45	40	35	27		

Model 70J

SELECTION CHART

Horsepower Range 3 – 10, Recommended Range 25 – 100 GPM, 60 Hz, 3450 RPM

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																						
	HP	PSI	50	75	100	125	150	175	200	250	300	350	400	450	500	600	700	800	900	1000	1100		
70J03 2 Stages	3	0	100	84	63	30																	
		20	63	30																			
		30	40																				
		40																					
		50																					
		60																					
70J05 4 Stages	5	0			100	94	85	75	63														
		20	100	96	86	77	66	53	35														
		30	96	86	77	66	53	35															
		40	88	79	69	56	40																
		50	79	69	56	40																	
		60	69	56	40																		
70J07 6 Stages	7.5	0				100	97	91	78	64	45												
		20			100	98	92	86	80	66	47												
		30		100	98	92	86	80	73	57	32												
		40	100	99	93	88	81	74	67	49													
		50	99	93	88	81	74	67	59	36													
		60	93	83	81	74	67	59	49														
70J10 9 Stages	10	0								99	91	82	73	63	52								
		20							100	91	83	74	64	53	39								
		30						100	96	87	78	69	59	46									
		40					100	96	92	84	75	65	54	40									
		50				100	96	92	88	79	70	60	48	31									
		60			100	96	92	88	84	75	65	54	40										

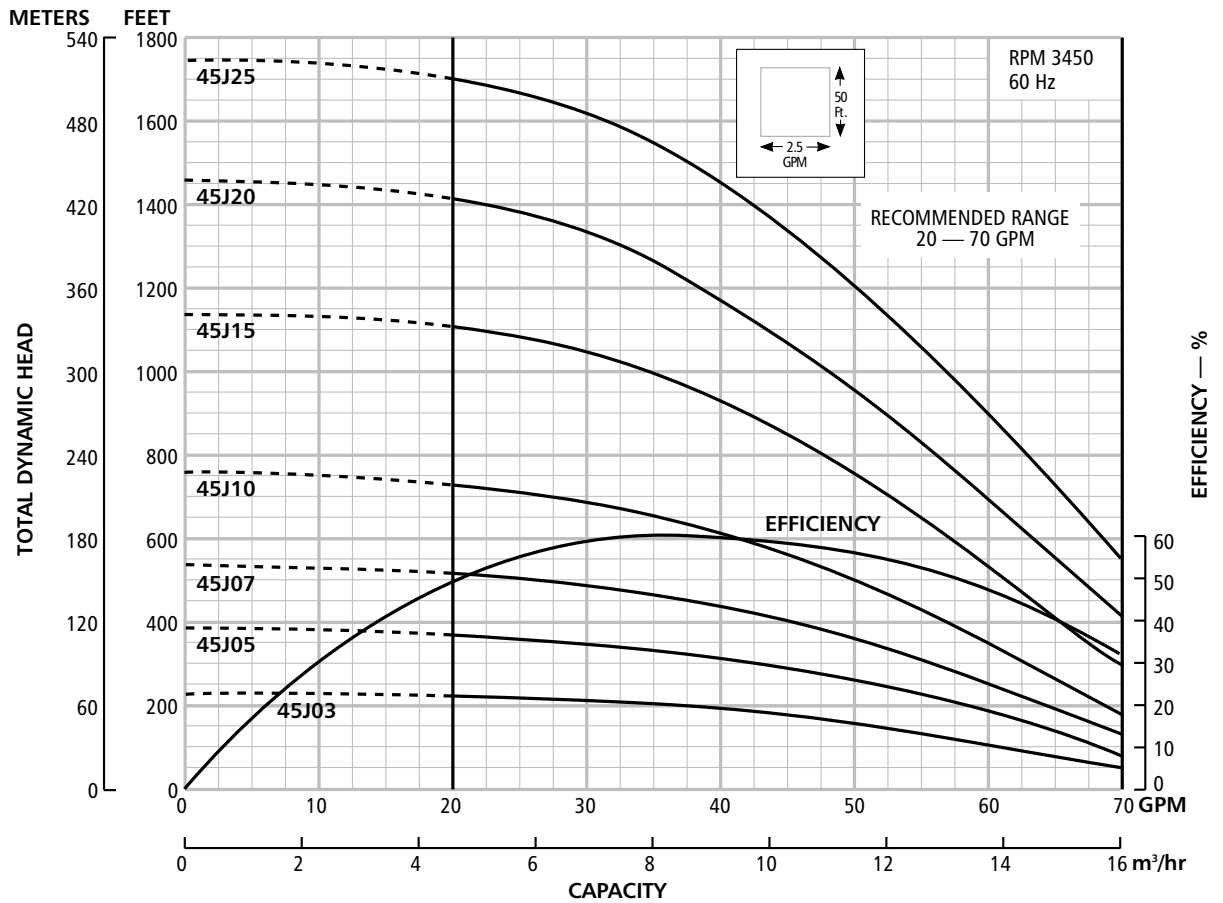
Horsepower Range 15 – 25, Recommended Range 25 – 100 GPM, 60 Hz, 3450 RPM

Pump Model	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																						
	HP	PSI	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700		
70J15 13 Stages	15	0				100	94	88	82	70	56												
		20			100	95	89	83	77	64	48												
		30			97	92	86	80	74	60	43												
		40		100	95	89	84	78	71	57	37												
		50		98	92	87	81	75	68	53	30												
		60	100	95	90	84	78	71	65	49													
70J20 17 Stages	20	0					100	96	87	78	69	58	43										
		20					100	97	92	83	74	64	52	34									
		30					99	94	90	81	72	61	48										
		40				100	97	93	88	79	70	59	45										
		50				99	95	90	86	77	67	56	40										
		60			100	97	93	88	84	74	64	53	34										
70J25 21 Stages	25	0							97	90	83	76	68	59	47	32							
		20							100	94	87	80	73	64	54	40							
		30							99	93	86	78	71	62	51	37							
		40						100	98	91	84	77	69	60	49	34							
		50						100	96	89	82	75	67	58	46								
		60					100	98	95	88	80	73	65	55	42								

Goulds Pumps

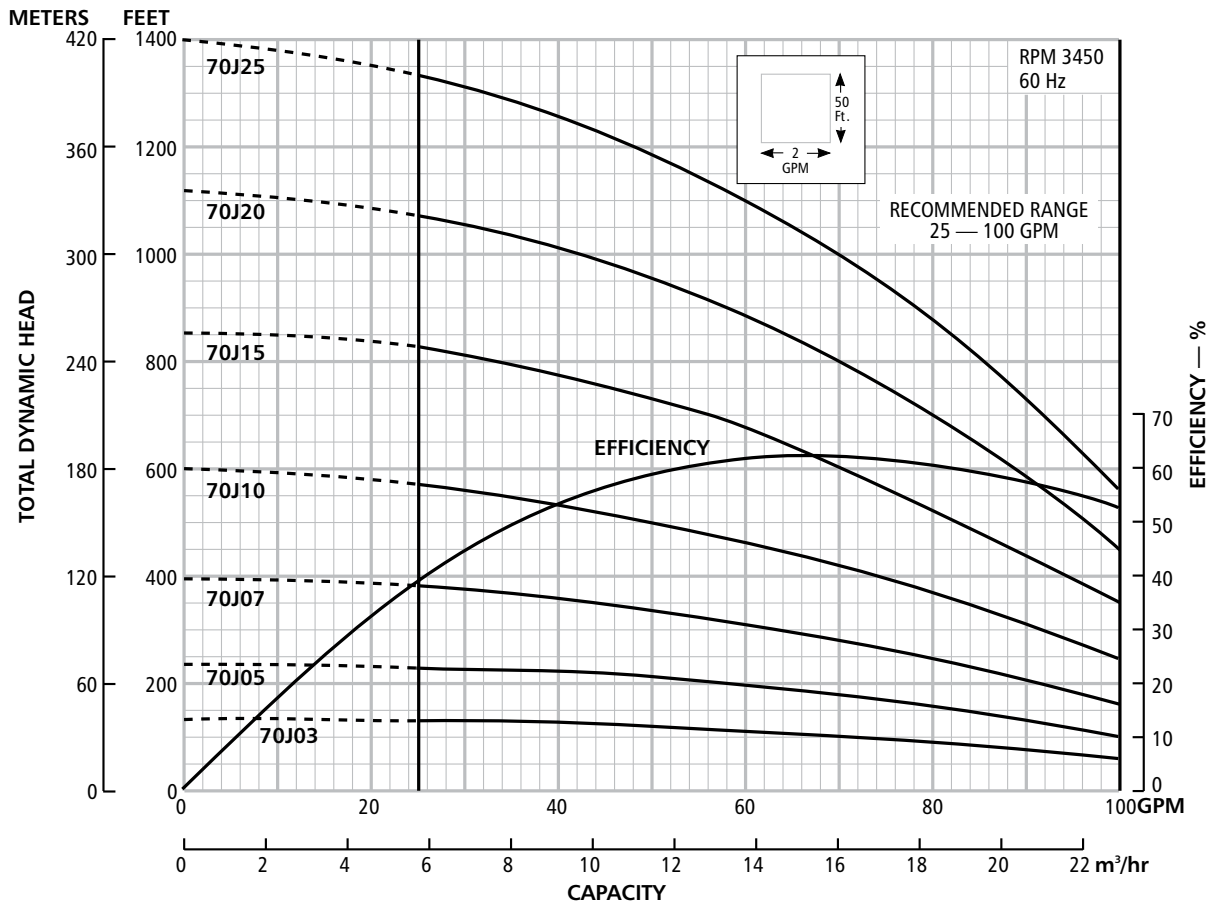
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Model 45J



Curve Reference SU 489

Model 70J



Curve Reference SU 518



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