

MEMORANDUM

Date: December 10, 2008
To: Water Right File 36-8782
From: nvandyke
Re: Rate Calculations

Using the Mannings Equation calculator tool available on the water rights permits section homepage a rate of 0.6 cfs was the estimated output on the date of examination. This was determined by:

Slope = 10 ft/902 ft = 0.011 ft/ft (902ft equivalent to 275 meters)
Pipe Material = plastic (pvc, abs)
Pipe Diameter = 8 inch

Using those as inputs estimated rate = 1.83 cfs. Pipe was roughly about 1/3 full during exam.
Estimated rate = 0.6cfs. Rate limited to 0.02cfs by permit.

RECEIVED

SEP 04 2008
DEPARTMENT OF
WATER RESOURCES

8-29-08

RECEIVED

SEP 04 2008
DEPARTMENT OF
WATER RESOURCES

Nick,

The Pump is A GT20.

I ran fifteen (15) rain birds AT
55 to 60 psi.

THANK you ,

Jeff JAYO

Hagerman, Id

(208) 834-2252

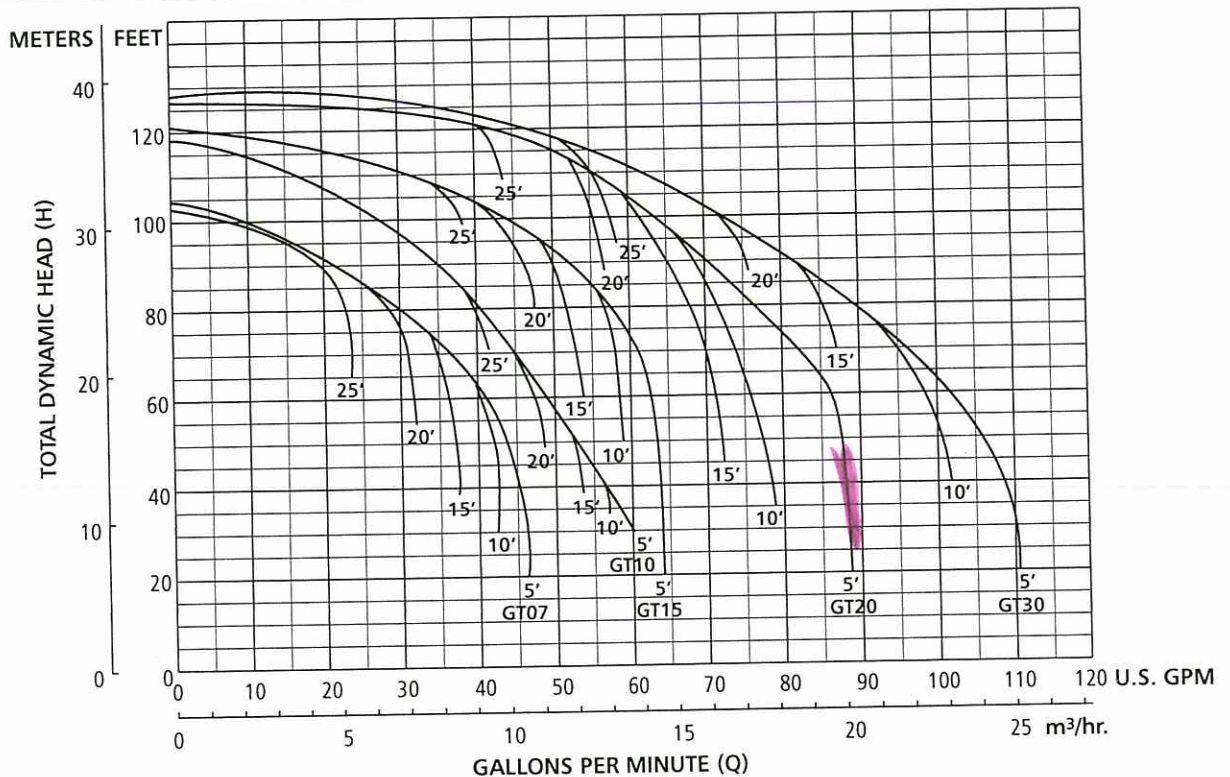


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GOULDS PUMPS Residential Water Systems

ft head
2.31 = 1 lb pressure

PERFORMANCE CURVE



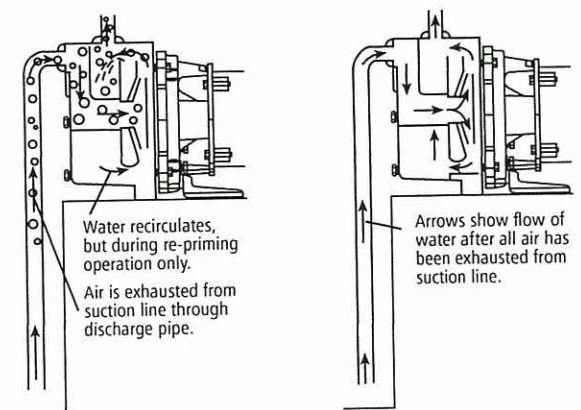
Single and three phase have same performance.

PERFORMANCE RATINGS

Model	PSI Discharge Pressure	Suction Lift in Feet				
		5'	10'	15'	20'	25'
GT07/ GT073	20	44	41	36	31	24
	30	34	31	26	22	14
	40	10	4	0	0	0
GT10/ GT103	20	53	51	49	46	41
	30	43	41	38	36	32
	40	29	22	16	8	0
GT15/ GT153	20	63	59	54	49	39
	30	60	55	51	46	37
	40	45	38	33	20	14
GT20/ GT203	20	86	77	70	59	46
	30	80	72	67	57	44
	40	65	60	57	50	43
GT30/ GT303	20	105	100	88	76	60
	30	92	90	84	75	57
	40	73	67	62	55	50

Performance ratings are in GPM.

SELF-PRIMING (AFTER INITIAL PRIME)[®]





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GOULDS PUMPS Residential Water Systems

APPLICATIONS

Specifically designed for the following uses:

- Lawn sprinkling
- Irrigation
- Air conditioning systems
- Heat pumps
- Water transfer
- Dewatering

SPECIFICATIONS

Pump:

- Pipe connections:
1½" NPT suction
1½" NPT discharge
- Capacities: to 110 GPM at 5 foot suction lift.
- Heads: to 128 feet.
- Reprime capabilities: to 25 feet suction lift.

- Maximum working pressure: 125 PSIG.
- Maximum water temperature: 140° F (60° C).
- Rotation: clockwise when viewed from motor end.

Motor:

- NEMA standard open drip proof.
- 60 Hz, 3500 RPM.
- Stainless steel shaft.
- Single phase: ¾–1½ HP, 115/230 V; 2 and 3 HP, 230 V only. Built-in overload with automatic reset.
- Three phase: 230/460 V. Overload protection must be provided in starter unit. Starter and heaters (3) must be ordered separately.
- Optional TEFC motors are available. See price book for order numbers.

AGENCY LISTINGS



Canadian Standards Association



Underwriters Laboratories

Goulds Pumps is ISO 9001 Registered.

STANDARD ODP MODELS

Model	HP	Phase
GT07	¾	1
GT10	1	
GT15	1½	
GT20	2	
GT30	3	3
GT073	¾	
GT103	1	
GT153	1½	
GT203	2	
GT303	3	

DIMENSIONS AND WEIGHTS

Model	GT07	GT10	GT15	GT20	GT30	GT073	GT103	GT153	GT203	GT303
HP	¾	1	1½	2	3	¾	1	1½	2	3
Length "L"	19⅜	19⅞	21⅜	20⅞	21⅞	19	19¾	20⅞	20⅜	21⅜
Width	8¼									
Height	9¼									
Weight (lbs.)	48	52	60	65	76	49	52	55	69	71
Phase	Single					Three				

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

