GENERAL PUMP *A member of the Interpump Group*

A80-R2

High Speed, Self-Rotating Tank Cleaning Head

FEATURES

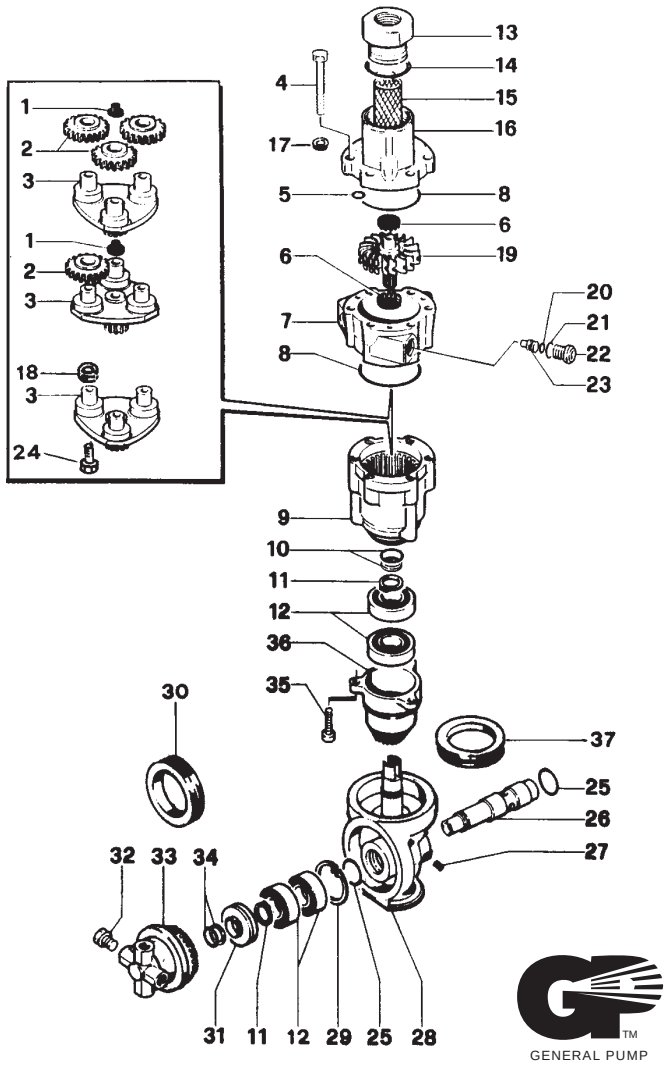
- Designed for quick and efficient cleaning of interior surfaces on tanks and barrels
- Complete, high-speed, orbital coverage of all interior surfaces
- Rotating speed independent from supply water temperature
- Stainless steel construction with built-in inlet filter for trouble-free operation
- Suitable for utilization in the food industry
- Self-powered by high pressure cleaning fluid

SPECIFICATIONS

Part Number	Y25485000
Rated Pressure	2000 PSI
Flow Rate	5–21 GPM
Maximum Fluid Temperature	194°F
Main Axis Rotating Speed	25–150 RPM
Inlet Filter	38 mesh
Inlet Port	1/2" BSPP
Nozzle Ports (2 or 4)	1/4" NPT
Minimum Tank Opening	5.5"
Weight	11.7 lbs.
Dimensions	10.7" x 4.75"

PARTS LIST

Item	Part Number	Description	Kit	Qty.
1.	Y80.0213.84	Bushing	†	2
2.	Y80.0204.38	Gear	†	6
3.	Y80.0205.00	Gear Holder		3
4.	Y16.1955.60	Screw, M8 x 60		6
5.	Y10.3109.93	O-Ring, 2.4 x 8.3 mm	*	3
6.	Y80.0212.84	Bushing	†	2
7.	Y80.0202.52	Housing, Impeller		1
8.	Y10.3080.58	O-Ring, 1.75 x 56.87 mm	*	2
9.	Y80.0207.52	Housing, Gear Box		1
10.	Y10.2030.18	Retaining Ring	*	1
11.	Y10.1020.05	Ring Seal	†	2
12.	Y11.4420.42	Bearing	†	4
13.	Y80.0217.51	Inlet Fitting		1
14.	Y10.3208.36	O-Ring, 2.62 x 36.17 mm	*	1
15.	Y28.0014.53	Filter		1
16.	Y80.0201.52	Collar		1
17.	Y14.3573.00	Washer		6
18.	Y11.45.1310	Nut		3
19.	Y80.0203.52	Impeller		1
20.	Y10.3003.00	O-Ring, 1 x 8 mm	*	3
21.	Y10.3060.10	O-Ring, 1.78 x 12.42 mm	*	3
22.	Y80.0219.51	Screw, Retaining, M14 x 1		3
23.	Y80.0221.51	Impeller Nozzle, 2 mm		3
	Y80.0222.51	Impeller Nozzle, 3 mm		
	Y80.0223.51	Impeller Nozzle, 4 mm		
	Y80.0224.51	Impeller Nozzle, 5 mm		
	Y80.0225.51	Impeller Nozzle, 6 mm		
	Y80.0226.51	Impeller Nozzle, 7 mm		
	Y80.0227.51	Impeller Nozzle, 2.5 mm		
24.	Y16.1843.10	Screw, M4 x 20		3
25.	Y10.3200.10	O-Ring, 2.62 x 23.47 mm	*	2
26.	Y80.0209.51	Coupling Pin		1
27.	Y16.2110.05	Screw, Retainer		2
28.	Y80.0133.52	Housing, 90° Drive		1
29.	Y10.1025.05	Snap Ring	†	1
30.	Y10.2060.05	V-Packing, 54 x 5 mm	*	1
31.	Y80.0211.51	Ring		1
32.	Y15.3721.14	Plug, 1/4 NPT		2
33.	Y80.0132.52	Pinion		1
34.	Y10.2030.16	Retaining Ring	*	1
35.	Y16.1896.20	Screw, M6 x 20		3
36.	Y80.0131.52	Pinion		1
37.	Y10.2050.05	V-Packing, 45 x 5 mm	*	1
*	Y25.4828.24	Repair Kit		
†	Y25.4852.24	Repair Kit		



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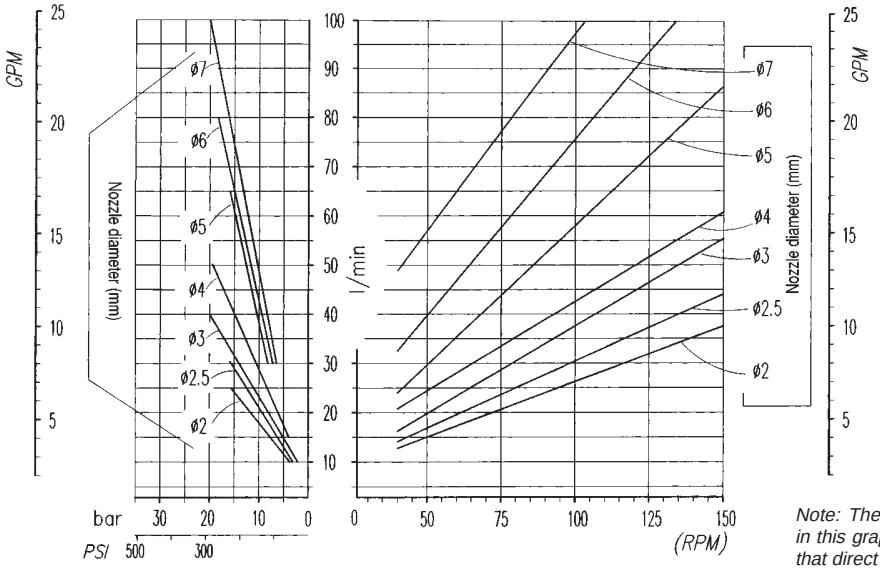
OPERATION

The rotation of the head is made by a hydrokinetic unit formed by a turbine, driven by 3 nozzles, and an epicycloidal reduction gear, utilizing the same water that will do the washing.

The rotating frequency can be adjusted, within the value expressed in the technical specification, by varying the diameter of the bore of the 3 internal nozzles of the hydrokinetic unit, and is always proportional to the flow as shown on the diagram below.

Changes in pressure (at a constant delivery rate) or water temperature will not modify the rotation speed.

Pressure loss in relation to flow



Rotation speed in relation to flow

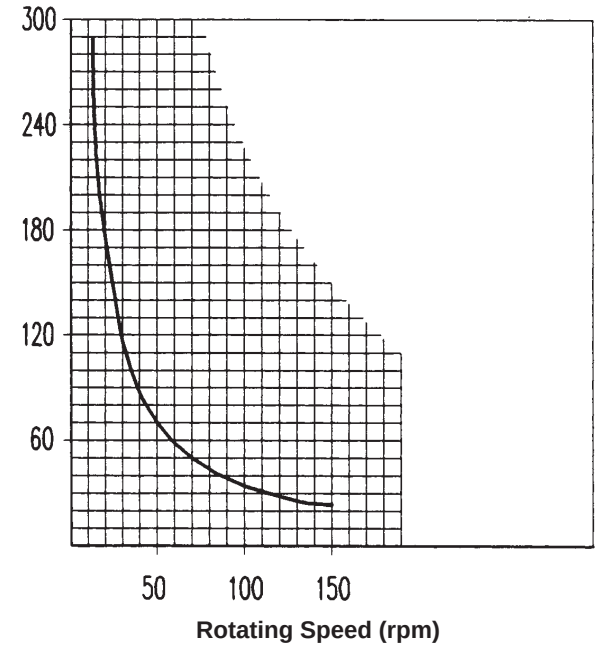
Note: The nozzle diameters referenced in this graph are for the internal nozzles that direct the flow to drive the turbine.

CYCLE TIME

A complete washing cycle is made after 58 revolutions. This is the point at which the jets have covered a complete sphere and returned to the starting point.

For optimum washing, 3 complete cycles are advised.

The time required for one complete cycle can be drawn from the following chart.



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