

Zenith[®] Pumps

Spin Finish Gear Pumps

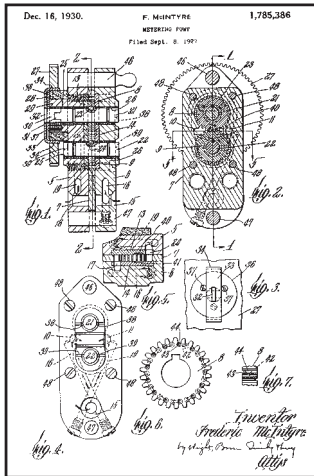


Precise, Pulseless,
Repeatable Performance
In Finish Metering
Applications



Zenith Pumps

Zenith original manmade fiber gear pump patent.



Since 1926, Zenith Pumps has provided the man-made fiber industry with precise, pulseless and repeatable gear metering pumps. From the earliest applications in viscose and hot-melt fiber spinning, through the more recent applications in high performance, specialty fibers, Zenith Pumps has met the challenges of the fiber industry with pumps of unmatched performance and quality.

As the largest spin pump supplier to the world's leading fiber producers, Zenith Pumps has remained in the forefront of gear pump developments

through ongoing programs of research into both pump design and precision part manufacturing. In addition, Zenith Pumps is committed to providing superior quality and customer service with two state-of-the-art, ISO certified production facilities fully integrated to ensure that our fiber producer customers have a reliable source of supply for their critical gear pump needs. Our customer support efforts are further enhanced by a worldwide network of direct offices, service facilities and sales representatives to respond to the demands of the fiber industry.

Improvements

Longer Life: Proprietary High Vanadium Stainless Steels and other best-in-class materials are used to dramatically increase the wear and corrosion resistance of the pump.

Uniform Accuracy: The application of new design criteria insure that all the internal components wear uniformly over the life of the pump—no stream will lose its accuracy before any other.

Less Bubble Formation: The use of special Parker fittings, provide a constant port size from the pump, through the fitting and into the tubing, with a special O-ring seal to eliminate stagnation and air drawn bubble formation.

Reduced Bacterial Growth: The optimized internal porting eliminates fluid stagnation points where bacterial growth happens.

Easier Maintenance: Our registered deck design, removable seals, and optional color coded fittings and hoses, redefine "quick-n-easy" pump assembly.

Value: Long life, ease of maintenance, and improved product quality convert the affordable price into a great value!

Specifications



Pump Type: Rotary external spur gear

Rotation: Clockwise

Operating Speed: 10-100 rpm recommended. Contact factory for specific recommendation based on your application conditions

Temperature: To 212°F (100°C)

Flow Rates: 0.03 to 1.2 cc/rev/port
2 to 12 discharge ports standard

Inlet: 7 psi maximum, flooded suction required. Differential pressure should be kept near zero for water emulsion finishes

Viscosity: 1 to 100 cp

Porting: Plates port to same side. Parker Prestolok fitting adapters supplied for flexible tubing. Inlet - 6mm OD, Outlet - 4mm OD

Materials of Construction: Proprietary High Vanadium Stainless Steel provides best-in-class corrosion and wear resistance. Seal and binder screws, alloy steel

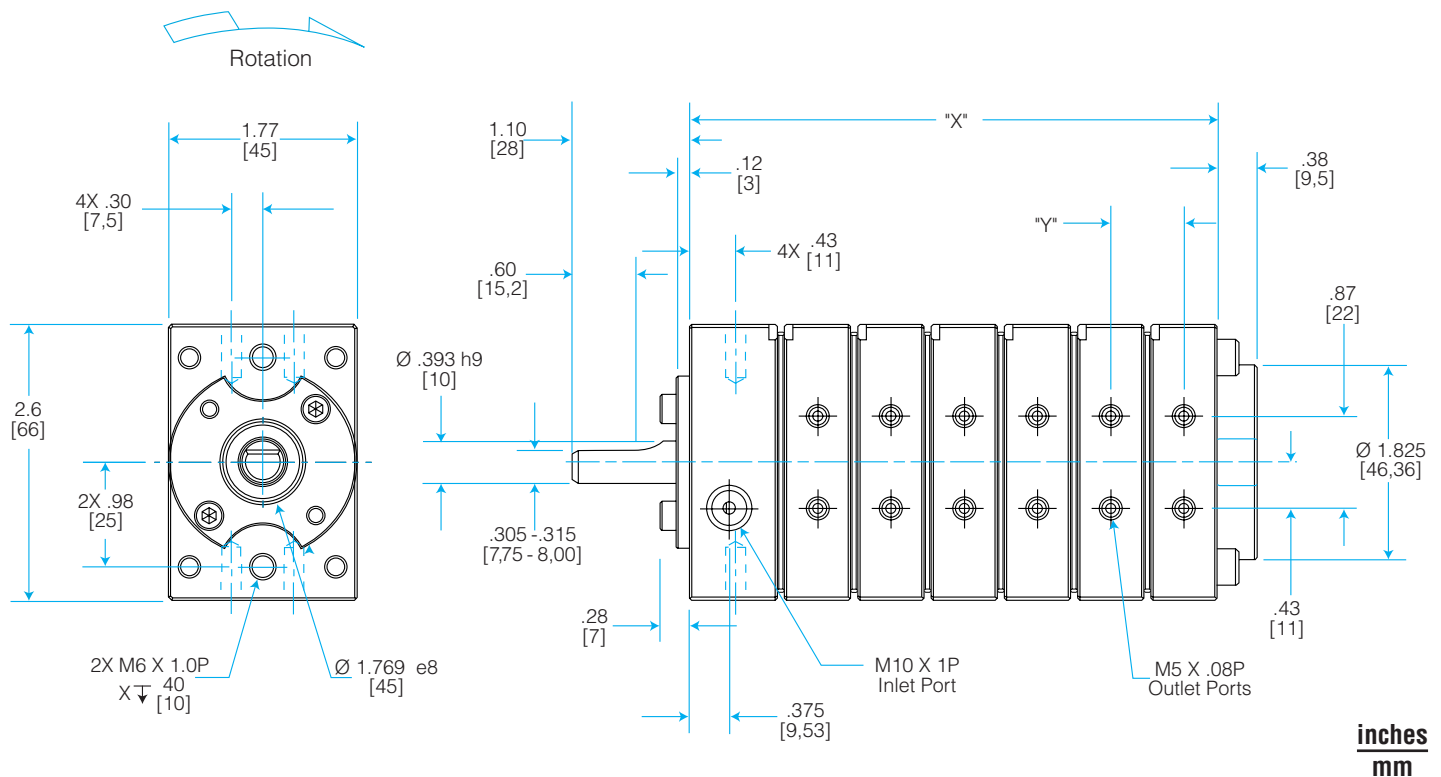
Seal: Stainless steel spring energized Nitrile lip seal standard

Applications

Spin finish pumps are used to accurately meter finishing solutions in a precise, pulseless flow to man-made fibers such as polyester, nylon, polypropylene, acetate, and rayon.

Spin finish metering pumps are available in a wide range of sizes and number of discharge ports for most man-made fiber finishing solutions.

Dimensions

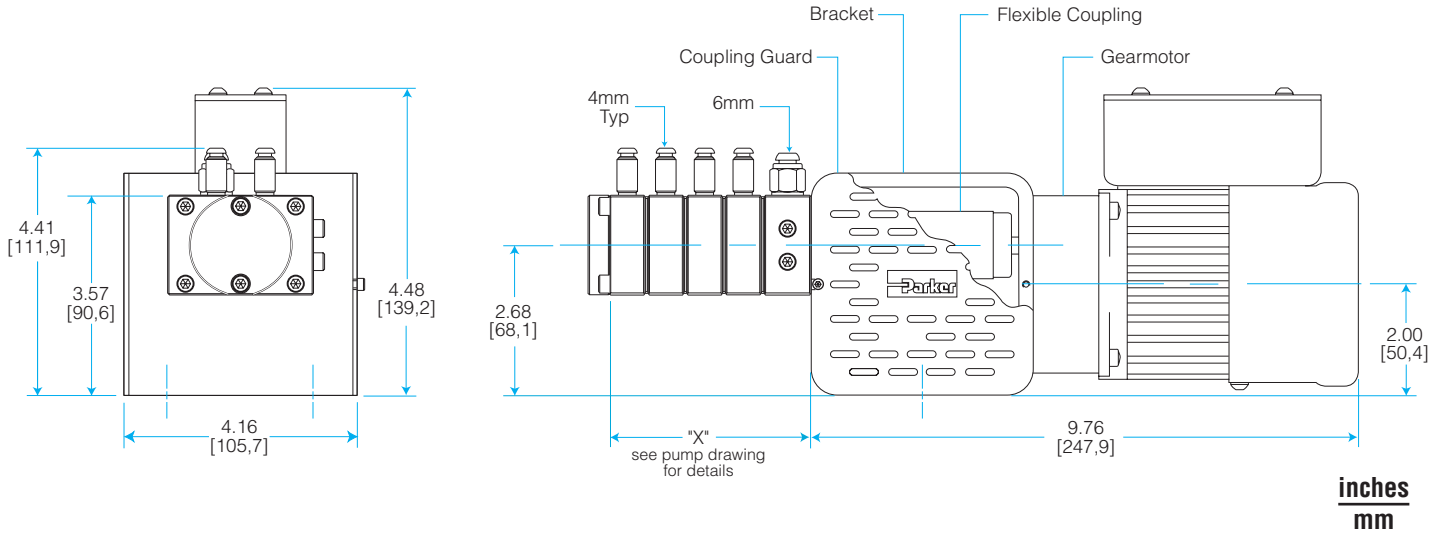


Standard Spin Finish Pump Models

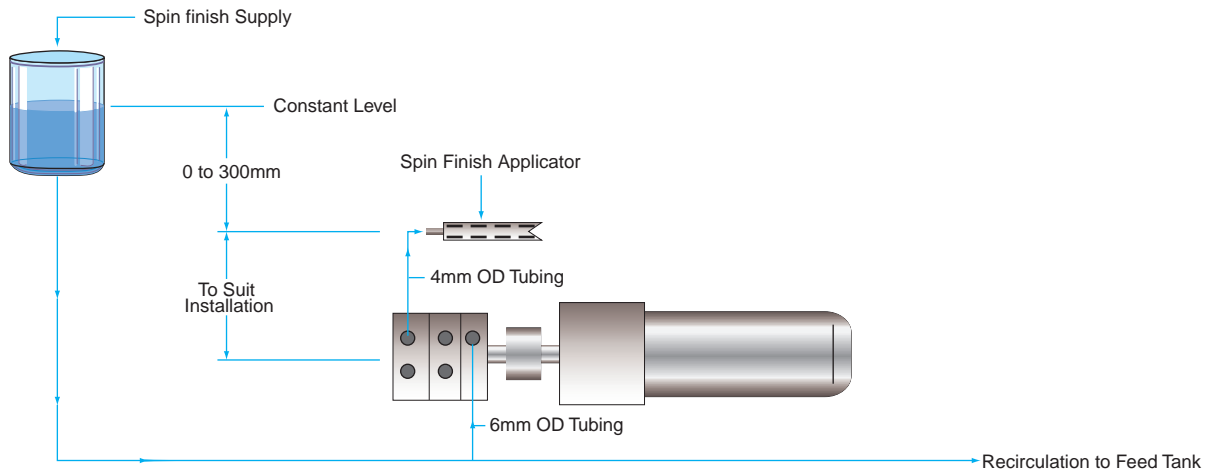
(other spin finish pump models available upon request)

PUMP TYPE		BFC-6250	BFF-6251	BFI-6252	BFL-6253	BFO-6254	BFR-6255
Number of streams		2-stream	4-stream	6-stream	8-stream	10-stream	12-stream
cc/rev	"Y" inches/mm	"X" inches/mm	"X" inches/mm	"X" inches/mm	"X" inches/mm	"X" inches/mm	"X" inches/mm
0.03	0.669/17,0	1.50/38,1	2.17/55,1	2.84/72,1	3.51/89,1	4.18/106,1	4.85/123,1
0.05	0.669/17,0	1.50/38,1	2.17/55,1	2.84/72,1	3.51/89,1	4.18/106,1	4.85/123,1
0.08	0.698/17,5	1.52/38,6	2.21/56,1	2.90/73,6	3.59/91,1	4.28/108,6	4.96/126,1
0.16	0.748/19,0	1.58/40,1	2.33/59,1	3.07/78,1	3.82/97,1	4.57/116,1	5.32/135,1
0.3	0.748/19,0	1.58/40,1	2.33/59,1	3.07/78,1	3.82/97,1	4.57/116,1	5.32/135,1
0.6	0.846/21,5	1.68/42,6	2.52/64,1	3.37/85,6	4.22/107,1	5.06/128,6	5.91/150,1
1.2	1.063/27,0	1.89/48,1	2.96/75,1	4.02/102,1	5.08/129,1	6.15/156,1	7.21/183,1

SF-6000 Spin Finish Pump Motor Drive Assembly



Typical Spin Finish Pump Installation



QSR-065 1994
QSR-095 1994



WARNING

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concern-

ing the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

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