

# FS Series

## INDUSTRIAL HOSE PUMPS

Designed to meet the demanding requirements of chemical injection, dispensing and transfer applications.



The FS Series peristaltic pump is a two shoe or lobe designed 180° apart on a rotating wheel successively compressing a reinforced rubber hose. The motion of the shoes compress the rubber against the pump housing creating continuous suction at the inlet of the pump and pushing the fluid to the outlet of the pump.

The sealed pump casing contains a lubricant that reduces friction of the shoes moving over the rubber hose. The pumped fluid is in contact only with the interior of the rubber hose, thus permitting the pumping of a wide variety of reactive fluids.

### K4 CONTROLLER

The K4 controller mounts on a wall or panel away from harsh chemicals. The rugged NEMA 4X motor drive controller is easy to program and extremely reliable.



**HOSE PUMPS**

### SAFETY FIRST - Sealed Pumphead Design - Tubing Rupture Detector

An optional tubing rupture detector will automatically shut down the pump and signal an alarm in the event of a tubing leak.

Together, the unique sealed pump design and the Tubing Rupture Detector help to protect operators and other equipment from potentially dangerous fumes and chemicals.



## FS SERIES FEATURES

- Flows to 130 GPM, Pressures to 218 psi.
- Viscosities to 100,000 cps.
- Seal-less pumping technology.
- Self-priming suction lifts to 30ft vertical.
- Glycerine filled pumphead for extended tubing life.
- Flanged connections with PP, PVDF or 316SS Inserts.
- No check valves - few moving parts.
- Dry running without damage.

# FLOMOTION FS SERIES ENGINEERING SPECIFICATIONS

## MATERIALS OF CONSTRUCTION

- Pumphead - Cast aluminum/two part epoxy
- Cover - Electroplated Steel/Lexan
- Shoe Assembly - Electro plated steel
- Shoes - Caste Iron
- Mounting Base - Galvanized Aluminum

## K4 CONTROLLER

- Wall mount with LED display
- Integral 8 button keypad
- Forward/Reverse capability
- NEMA 4X enclosure
- Input
  - 115/230 VAC, 1ph, 50/60 Hz (1/8 - 1 hp)
  - 230 VAC, 3ph, 50/60 Hz (1.5 - 3 hp)
- Output
  - 230 VAC, 3ph
- Integral Power Disconnect (opt.)

## K4 CONTROLLER INPUT / OUTPUT

- Remote or manual speed control input (4-20mA, DC voltage or frequency)
- Start/Stop control input
- Local/Remote Select input
- Tubing Rupture input
- Pump Running output (running/stopped)
- Speed Feedback output (4-20mA)
- Status output (auto/manual)
- Fault output

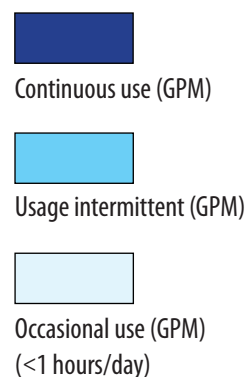
## AVAILABLE HOSE MATERIAL

- Natural Rubber
- EPDM
- Buna Food Grade
- Hypalon

## FLOW TABLE (GPM)

TYPE	MAX PSI	10 RPM	20 RPM	40 RPM	60 RPM	80 RPM	100 RPM	120 RPM	140 RPM
FS 05 (3 lobes)	116	0.015	0.03	0.06	0.09				
FS 10 (3 lobes)	116	0.04	0.09	0.18	0.26				
FS 10	116	0.07	0.13	0.26	0.40	0.53	0.66	0.79	
FS 15	116	0.22	0.44	0.88	1.32	1.76	2.20	2.64	
FS 20	116	0.29	0.75	1.50	2.20	2.95	3.74	4.27	
FS 25	218	0.88	1.76	3.52	5.28	7.04	8.81	10.57	12.33
FS 32	218	1.65	3.30	6.60	9.91	13.21	16.51	19.81	23.12
FS 40	218	2.49	5.15	10.30	15.45	20.61	30.16	30.91	36.06
FSX 40	218	3.52	7.04	14.1	21.13	28.18	35.22		
FS 50	218	7.71	15.4	30.8	46.23	61.64	77.05		
FS 65	218	10.13	20.3	40.5	60.76	81.01	101.27		

TYPE	MAX PSI	10 RPM	20 RPM	30 RPM	35 RPM	40 RPM	45 RPM	50 RPM
FSX 80	218	24.2	48	73	84.76	96.86	108.97	121.08
FS 80	218	30.8	62	92	107.87	123.28	138.69	154.10
FS 100	218	52.8	106	159	184.92	211.34	237.75	
FS 125	218	96.9	194	291	339.02	387.45		



## FLOMOTION SYSTEMS Inc.

3 North Main St.  
 Middleport, NY 14105  
 Tel: 716-691-3941  
 Fax: 716-691-1253  
 Email: info@flomotionsystems.com  
 www.flomotionsystems.com

