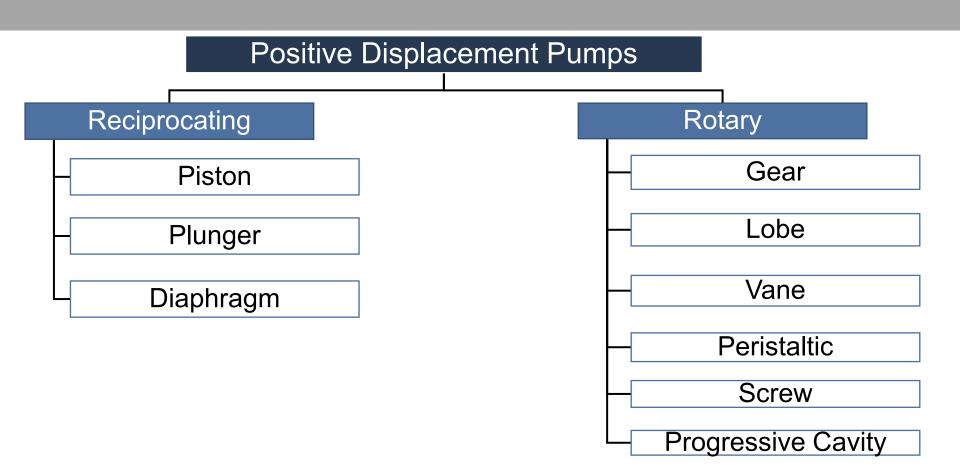




WHAT IS A METERING PUMP



OPERATION OF EQUIPMENT

Peristalsis is regarded as one of the simplest and most efficient means of pumping fluids.





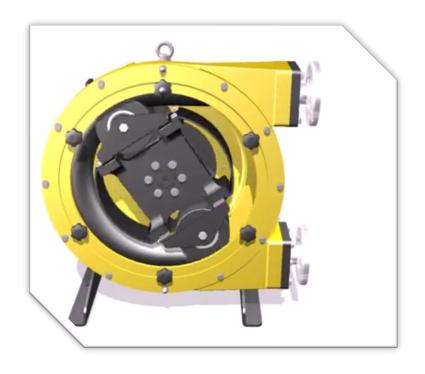
FEATURES AND BENEFITS

The peristaltic dosing head is capable of dosing high demanding medias such as:

- Chemical off gassing
- High viscosity fluids
- Abrasive chemicals
- Shear-sensitive liquids
- Un-dissolved solids



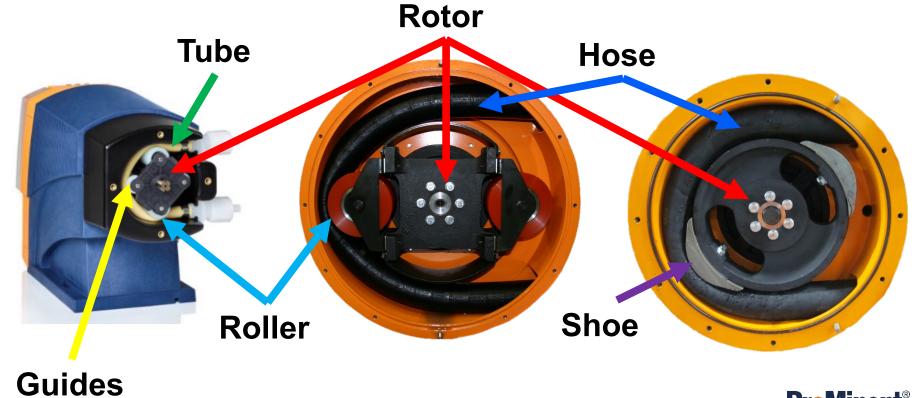
FEATURES AND BENEFITS



- Easy maintenance, low cost, and short down-time
- Only one wearing part the hose/tube
- Valveless
- Chemical only in contact with hose/tube
- Seal-less design
- Pressures to 232psi
- Self priming/dry priming
- Reversible rotation
- High suction capabilities

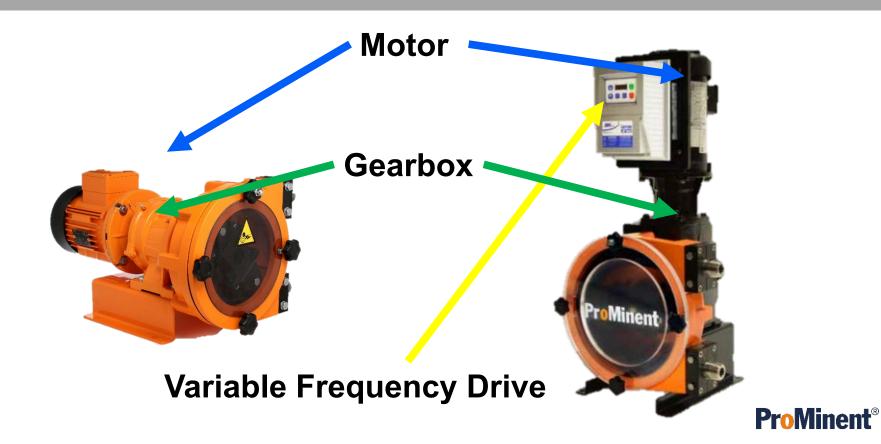


KEY COMPONENTS





KEY COMPONENTS



TYPES OF PERISTALTIC PUMPS

- Tube Pump
 - Typically, lower pressure, up to 102psi
 - Casing and rollers are dry and use non-reinforced tube
- Hose Pump
 - Work under higher pressure, up to 232psi
 - Reinforced hoses hence the name "hose pump"

Roller Pump



Shoe Pump











DULCOFLEX CONTROL DFXA

- Feed rates between 17.17GPH and 6mL/h(0.038 gal/day)
- Turndown Ratio 3000:1
- 101PSI
- Direct output in liter/h or gallon/h
- Controlling via 0/4-20 mA, Contact, Timer, CANopen, Profibus or manual setting
- LED status display
- 3 freely configurable in and outputs
 - As Input
 - To Start Process Timer
 - As AUX 2, 3, or 4
 - As Output
 - Error Messages
 - Warning Messages
 - Timer



DULCOFLEX CONTROL DFXA

- Absolutely no tools required for a fast tubing replacement
 - Menu guided service
- Reversible flow
- Excellent chemical resistance and long service life of tube
- Available tube materials
 - TPV (FDA compliant) Santoprene
 - PUR Versilon (72.5psi only) Polyurethane
 - SEBS (44psi only)
 - PVDF tubing connectors
 - NSF61, FDA
- Leak Detection
- Brushless DC Motor







TECHNICAL DATA

| Capacity D | ata | | | | | | | | | |
|-----------------|----------------------------------|-------|-------|---------------|----------------|--------------|------|--------------------|------|-------|
| Pump Version | Capacity at Maximum Backpressure | | | Max. Speed | Connector Size | Suction Lift | | Shipping Weight | | |
| | psig | (bar) | gph | (I/h) | rpm | in | ft | (m) | lbs | (kg) |
| DULCOFL | EX - DFXa | | | | | | | | | |
| 0530 | 73 | (5) | 8.00 | (30) | 100 | 1/2" x 3/8" | 29.5 | (9) | 12.8 | (5.8) |
| 0730 | 102 | (7) | 8.00 | (30) | 100 | 1/2" x 3/8" | 29.5 | (9) | 12.8 | (5.8) |
| 0365 | 44 | (3) | 17.17 | (65) | 100 | 1/2" x 3/8" | 29.5 | (9) | 12.8 | (5.8) |
| 0565 | 73 | (5) | 17.17 | (65) | 100 | 1/2" x 3/8" | 29.5 | (9) | 12.8 | (5.8) |



DULCOFLEX CONTROL DFYA

- Dosage range 1.45gph to 108gph
- 75:1 turndown
- Pressures to 116psi
- Suction lift 26ft
- Max 80rpm
- Rupture detection
- Simple adjustment of capacity in GPH
- Menu guided hose change
- Reversible direction of rotation
- Removable HMI
- Dosing head orientation left or right









DULCOFLEX CONTROL DFYA

- Suitable for dosing
 - Outgassing
 - Highly viscous (>40,000 centipoise)
 - Abrasive
 - Solid up to ¼ of the inner diameter of hose
 - Shear-sensitive media
- Available hose materials:
 - NR
 - NBR
 - NBR-A(food grade)
 - EPDM
 - Hypalon



TECHNICAL DATA

| Туре | Maximum back pressure | Delivery rate | Frequency | Connection size | Suction lift | Shipping weight |
|-------|-----------------------|----------------------------------|-----------|-----------------|--------------|-----------------|
| | psi | | rpm | | ft m WC | lb kg |
| 04410 | 58 | 108.32 gph ±10 % 410 l/h ±10 % | 80 | 3/4" | 26 8 | 66.1 30 |
| 06410 | 87 | 108.32 gph ±10 % 410 l/h ±10 % | 80 | 3/4" | 26 8 | 66.1 30 |
| 08410 | 116 | 108.32 gph ±10 % 410 l/h ±10 % | 80 | 3/4" | 26 8 | 66.1 30 |

All data calculated with water at 68 °F (20 °C).

Difference between types is amount of shims



Capacities from 6 ml/h to 108gph can now be covered with peristaltic dosing pumps

DFXa

- 6 ml/h 17.17gph
- 101psi

DFYa

- 1.45gph 108 gph
- 116psi

Both pumps come with identical user interface and identical control options







DULCOFLEX DFB&C

DFB & DFC

- Roller Technology
- Flows to 337gph DFB
- Flows to 106gpm DFC
- Pressures to 116psi

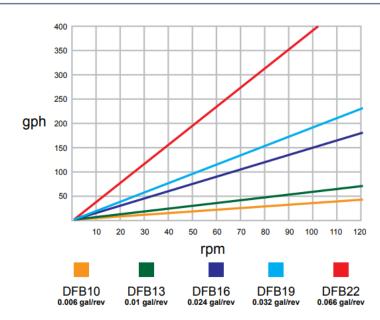






| Capacity Data | | | | | | | | |
|--------------------------------|----------|----------|----------|----------|----------|--|--|--|
| | DFB10 | DFB13 | DFB16 | DFB19* | DFB22 | | | |
| DFBu Series | | | | | | | | |
| Compression | Roller | Roller | Roller | Roller | Roller | | | |
| Connection | 3/8" | 3/8" | 3/4" | 1" | 1" | | | |
| Capacity gal/rev | 0.006 | 0.01 | 0.024 | 0.032 | 0.066 | | | |
| Max. Flow gph | 31 | 51 | 122 | 163 | 337 | | | |
| Max. Pressure Reinforced Hoses | 116 psi | 116 psi | 116 psi | N/A | 116 psi | | | |
| Tubing | Norprene | Norprene | Norprene | Norprene | Norprene | | | |
| Max. Presure Tubing | 30 psi | | | |

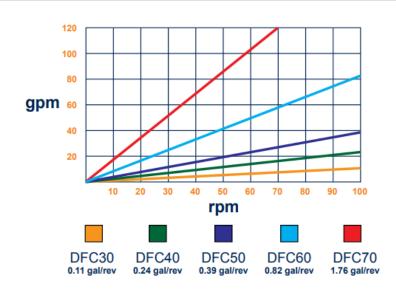
DFB Series Flow Rates





| Capacity Data | | | | | | | |
|--------------------------------|---------|----------|---------|---------|---------|--|--|
| | DFC30 | DFC40 | DFC50 | DFC60 | DFC70 | | |
| DFCu Series | | | | | | | |
| Compression | Roller | Roller | Roller | Roller | Roller | | |
| Connection | 1 1/4" | 1 1/2" | 1 1/2" | 2" | 2 1/2" | | |
| Capacity gal/rev | 0.11 | 0.24 | 0.39 | 0.82 | 1.76 | | |
| Max. Flow gpm | 7.4 | 14.4 | 23.2 | 41.2 | 106.4 | | |
| Max. Pressure Reinforced Hoses | 116 psi | 116 psi | 116 psi | 116 psi | 116 psi | | |
| Tubing | N/A | Norprene | N/A | N/A | N/A | | |
| Max. Presure Tubing | N/A | 30 psi | N/A | N/A | N/A | | |

DFC Series Flow Rates





DULCOFLEX DFD

DFD

- Shoe technology
- Flow to 3,804gph
- Pressures to 232psi

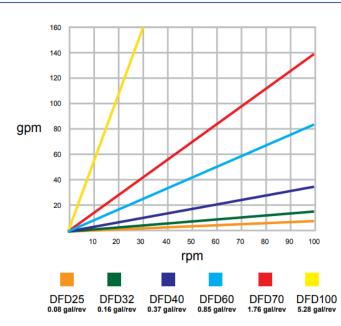






| Capacity Data | | | | | | | | |
|-------------------------------|---------|---------|---------|---------|---------|---------|--|--|
| | DFD25 | DFD32 | DFD40 | DFD60 | DFD70 | DFD100 | | |
| DFDu Series | | | | | | | | |
| Compression | Shoe | Shoe | Shoe | Shoe | Shoe | Shoe | | |
| Connection | 1" | 1 1/2" | 1 1/2" | 2 1/2" | 2 1/2" | 4" | | |
| Capacity gal/rev | 0.08 | 0.16 | 0.37 | 0.85 | 1.76 | 5.28 | | |
| Max Flow gpm | 5.2 | 9.6 | 20.4 | 42.4 | 88 | 160 | | |
| Max. Pressure Reinforced Hose | 232 psi | | |

DFD Series Flow Rates





Trainings



Peristaltic Pump Overview

Dates:

Dec 12, 2024

Location:

Online Webinar

Register



Peristaltic Pump Applications

Dates:

January

Location:

Online Webinar

Coming Soon



Peristaltic Pump Selection

Dates:

February

Location:

Online Webinar

Coming Soon