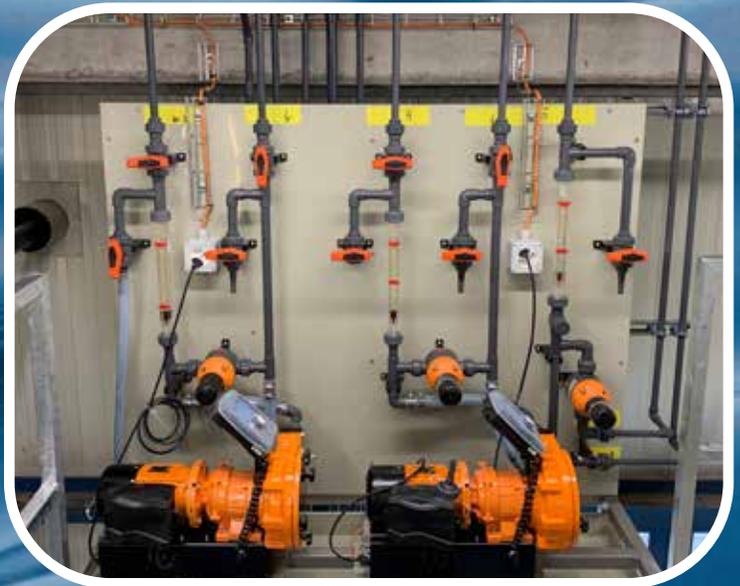


ProMinent®

Peristaltic Pump Portfolio Range

From Precise Dosing to High Volume Fluid Transfer



About Peristaltic Pumps

A peristaltic pump, also called a hose or tube pump, is a positive displacement pump that moves fluid through a flexible hose by compressing it in a smooth, wave-like motion known as peristalsis. As rollers or shoes rotate, they squeeze the hose to push fluid forward while the hose rebounds behind them to draw in more fluid, creating a self-priming, continuous, no-slip flow. Because the fluid is fully contained within the hose, peristaltic pumps deliver accurate, repeatable performance without backflow or contamination.

When to Use a Peristaltic Pump

For processes that demand reliability, accuracy, and low maintenance with challenging fluids, a peristaltic pump is often the best solution.

- **Handles tough media with ease** – ideal for abrasive slurries, undissolved solids, high-viscosity and off-gassing chemicals
- **Gentle pumping action** – protects shear-sensitive or fragile fluids from damage
- **Run-dry safe** – no damage if the supply tank runs empty
- **Contamination-free design** – fluid is fully contained within the hose or tube
- **Valve and seal-free construction** – prevents clogging and simplifies maintenance
- **Accurate, no-slip dosing** – consistent flow and reliable capacity
- **Reversible operation** – enables safe line draining and flushing
- **Low maintenance costs** – only the hose and lubricant are wear components
- **Self / Dry priming** – Capable of pulling high suction lifts without having to prime the pump with liquid

Selecting the Right Pump

Selecting the right peristaltic pump requires matching the pump design, hose material, and compression technology to the specific process conditions. Key considerations include the chemical being pumped, viscosity and solids content, required flow rate, discharge pressure, operating temperature, duty cycle, system layout, control requirements, and any necessary certifications—all of which influence performance, reliability, and hose life.

Why ProMinent Peristaltic Pumps

When your process is on the line, the pump you choose matters. ProMinent DULCOFLEX® peristaltic pumps are built to deliver reliable performance day after day in harsh, real-world conditions. Designed with operator safety, ease of maintenance, and long-term durability in mind, the DULCOFLEX line outperforms where others fall short.

- **Both roller and shoe compression options** – to meet pressure and energy needs
- **Wide capacity and pressure range** – from precise dosing to high-flow transfer
- **Only hose pump with integrated HMI controls** – simplified operation
- **Roller models** – reduced energy use, longer hose life, no liquid lubricant required
- **Standard cataphoresis (e-coat) protection** – superior corrosion resistance
- **Optional Halar® coating** – protection for aggressive chemical environments
- **Superior hose construction** – longer life and predictable performance



DULCOFLEX - DFXa



DULCOFLEX - DFYa



DULCOFLEX - DFBu



DULCOFLEX - DFCu



DULCOFLEX - DFDu

Intelligent Peristaltic Metering Pumps

DULCOFLEX® DFXa

Precision ■ Reliability ■ Simplicity

The DULCOFLEX DFXa is an advanced, valve-free peristaltic metering pump that delivers the precision of a diaphragm pump combined with the versatility of peristaltic technology — making it the ideal solution for dosing even the most challenging and off-gassing chemicals. A brushless DC motor ensures ultra-stable, precise metering down to 0.06 GPD (10 ml/h), while smart electronics maintain repeatability under demanding real-world operating conditions.

Maintenance is quick and intuitive with ProMinent's patented liquid-end design. Guided, on-screen prompts enable rapid tube changes, and high-performance tube materials extend service life and reduce overall cost.

With built-in networking capabilities, the pump seamlessly integrates into digital process environments enabling remote monitoring, diagnostics, and optimization.

Features & Benefits

- Valve-Free Peristaltic Metering..... Accurate chemical dosing, no clogging
- Brushless DC Motor Drive..... Precise, efficient, long-lasting performance
- Ultra Low Flow Capability Accurate dosing at extremely low flows
- Patented Quick-Change Liquid End..... Fast, error-free tubing replacement
- High-Performance Tubes Long life against aggressive chemicals
- Click-Wheel Interface Simple setup, intuitive operation
- LED Status Indicators..... Instant visibility for faster response
- Four-Position Dosing Head Orientation Flexible installation for any space
- Reverse-Flow Capability Easy flushing and line clearing
- Integrated Communication Protocols For remote diagnostics and monitoring

Primary Applications

- Water & wastewater treatment
- Chemical dosing
- Food & beverage production
- Pharmaceutical & biotechnology
- Mining, minerals & slurry handling
- Pulp & paper chemical feed

Ideal for Challenging Fluids Including

- Offgassing media
- Abrasive slurries
- High-viscosity liquids
- Shear-sensitive compounds
- Corrosive chemicals



Technical Specifications

| Models | 0530, 0730 | 0365, 0565 |
|---|---------------------------------|--------------------------------|
| Max. Continuous Flow Capacity (GPH / l/h) | 7.9 / 30 | 17.2 / 65 |
| Minimum Dosing Rate (GPD / ml/h) | 0.06 / 10 | 0.14 / 22 |
| Flow per Revolution (gal / ml) | 0.0013 / 5 | 0.003 / 10.8 |
| Maximum Speed (rpm) | 100 | 100 |
| Maximum Pressure (Tubing) (psi / bar) | 0530 - 73 / 5 0730 - 102 / 7 | 0365 - 44 / 3 0565 - 73 / 5 |
| Suction Lift (ft / m) | 30 / 9 | 30 / 9 |
| Tube Connection Size (inches) | 1/2 ID x 3/8 OD | 1/2 ID x 3/8 OD |
| Fitting Connection Size | M20x1.5 Male Thread | M20x1.5 Male Thread |
| Dimensions LxWxH (inches / mm) | 14.6x6.3x9.2 / 371x159x233 | 14.6x6.3x9.2 / 371x159x233 |
| Weight (lbs. / kg) | 12.8 / 5.8 | 12.8 / 5.8 |

Additional Specifications

| | |
|-------------------------------------|---|
| Metering Reproducibility | +/- 1% |
| Maximum Viscosity (cPs) | 200,000 Polyurethane (PUR), 10,000 (Santoprene (TPV), SEBS) |
| Degree of Protection | IP66, NEMA 4X |
| Nominal Power (watts) | 50 |
| Ambient Temperature Range (°F / °C) | 32-113 / 0-45 |
| Available Tube Materials | Santoprene (TPV), Polyurethane (PUR), SEBS (FP) |
| Available Certifications | FDA Compliance, NSF/ANSI 61 |
| Media Temperature Range (°F / °C) | 41-113 / 5-45 (176 / 80 temporary) |
| Communication Options | PROFIBUS, PROFINET, EtherNet/IP, CANopen, SCADA, Modbus RTU |



Intelligent High-Capacity Peristaltic Metering Pump

DULCOFLEX® DFYa

Power ■ Precision ■ Intelligence

The DULCOFLEX® DFYa is designed for precise and reliable fluid metering in demanding applications. It offers the full advantages of peristaltic technology — valve-free operation, gentle pumping action, and strong chemical compatibility.

The DFYa combines decades of metering expertise with intelligent control to deliver precise, reliable dosing of viscous, abrasive, off-gassing, and shear-sensitive fluids. Its electronically controlled HMI provides intuitive, direct flow adjustment, while a specialized AC motor—fully integrated with the pump’s software—delivers consistent performance across a wide turndown range. Maintenance is simplified through guided, on-screen hose replacement, reducing downtime and operator error. With seamless integration via PROFIBUS®, PROFINET, SCADA or CANbus, and an optional FDA-compliant design, the DFYa fits effortlessly into both industrial and sanitary process environments.

Features & Benefits

- Intelligent Peristaltic Metering Technology..... Reliable dosing without clogging or complex calibration
- Integrated HMI Controls..... Built-in intuitive controls for easy operation
- Adjustable Flow in GPH or l/h..... Direct flow entry in your preferred units
- Wide Flow Range of 0.82 to 174.4 GPH (3.1 to 660 l/h)..... Multiple applications for an integrally controlled pump
- High Pressure Capability (Up to 116 psi / 8 bar)..... Handles demanding industrial system pressures
- Large, Illuminated Display..... Clear visibility, safer operation
- Guided Hose Replacement..... Fast maintenance, fewer mistakes
- Reverse Flow Capability..... Simple flushing and line clearing
- Roller Compression..... More efficient, longer hose life, lower cost of ownership
- Multiple Control Modes (Contact, Batch, Manual, Analog)..... Flexible process control
- BUS Interface Options (PROFIBUS®, PROFINET, CANbus)..... Seamless PLC integration
- Valve-Free Flow Path..... No clogging, low maintenance
- Robust Brushless Drive System..... Quiet, efficient, long-lasting

Primary Applications

- Water & wastewater treatment
- Chemical dosing
- Food & beverage production
- Pharmaceutical & biotechnology
- Mining, minerals & slurry handling
- Pulp & paper chemical feed

Ideal for Challenging Fluids Including

- Offgassing media
- Abrasive slurries
- High-viscosity liquids
- Shear-sensitive compounds
- Corrosive chemicals



Technical Specifications

| Models | 04200, 06200, 08200 | 04410, 06410, 08410 | 02660, 04660 |
|---------------------------------------|---|---|----------------------------------|
| Continuous Flow Range (GPH / l/h) | 0.8 - 54.82 / 3.1 - 207.5 | 1.4 - 108 / 5.1 - 410 | 3.5 - 174 / 13.2 - 660 |
| Flow per Revolution (gal / ml) | 0.009 / 34.6 | 0.022 / 85.4 | 0.058 / 220 |
| Speed Range (rpm) | 1.5-100 | 1-80 | 1-50 |
| Maximum Pressure (Hoses) (psi / bar) | 04200 - 58 / 4 06200 - 87 / 6 08200 - 116 / 8 | 04410 - 58 / 4 06410 - 87 / 6 08410 - 116 / 8 | 02660 - 29 / 2 04660 - 58 / 4 |
| Maximum Pressure (Tubing) (psi / bar) | 30 / 2 | 30 / 2 | 30 / 2 |
| Suction Lift (ft / m) | 26 / 8 | 26 / 8 | 26 / 8 |
| Connector Size (inches) | 3/8 MNPT | 3/4 MNPT | 1 MNPT |
| Dimensions LxWxH (in. / mm) | 22.4x11.5x18.5 / 570x293x469 | 22.2x12.8x18.5 / 564x324x470 | 24.3x14.9x18.7 / 617x378x474 |
| Weight (lbs. / kg) | 55.1 / 25 | 66.1 / 30 | 108 / 49 |

| Additional Specifications | |
|-------------------------------------|---------------------------------------|
| Metering Reproducibility | 1-2% |
| Maximum Viscosity (cPs) | 25,000 |
| Degree of Protection | IP 55 |
| Nominal Power (watts) | 240 - 600 |
| Ambient Temperature Range (°F / °C) | 14-113 / -10-45 |
| Available Tube Materials | Norprene |
| Available Hose Materials | NR, NBR, EPDM, NBR-A, Hypalon |
| Available Certifications | FDA Compliance, NSF/ANSI 61 |
| Media Temperature Range (°F / °C) | 14-176 / -10-80 (248 / 120 temporary) |
| Communication Options | PROFIBUS, PROFINET, CANbus, SCADA |



Versatile Peristaltic Pumps

DULCOFLEX® DFBu Series Compact ■ Powerful ■ Reliable

The DULCOFLEX® DFBu Series represents one of the most versatile and space-efficient peristaltic pump designs on the market today. Offering both tubing and reinforced hose configurations, along with horizontal and vertical models, the DFBu series delivers reliable, high-performance pumping for the most demanding fluids — from slurries and abrasives to viscous or chemically aggressive media.

The DFBu is engineered for efficiency, durability, and precision utilizing roller compression technology eliminating the need for lubrication, while maintaining consistent, gentle fluid movement. This innovation results in lower hose stress, reduced maintenance, and reduced cost of ownership compared to pumps that require a lubrication bath — making the DFBu an ideal choice in applications of the most difficult conditions.

Features & Benefits

- Tubing or Reinforced Hose ConfigurationsTo suit chemical compatibility and pressure needs
- Wide Flow and Pressure RangeBroad range of dosing and transfer requirements
- Versatile FootprintFits tight installation spaces
- Roller Compression Technology.....More efficient, cleaner operation, longer hose life
- Halar® Coating Option.....Superior chemical corrosion protection
- “Disaster-Proof” Hose Connections.....Maximum safety under pressure
- Self-Priming Capability.....Easy startup, no priming necessary
- Dry-Run CapabilityRuns safely without fluid
- Reversible FlowEasy backflushing and line clearing
- Handles Solids and SlurriesReliably moves tough media
- Seal-Free and Valve-Free DesignNo leaks, no clogging
- Easy MaintenanceFaster service, less downtime
- Designed for High Wear and Corrosion EnvironmentsFor abrasive and aggressive chemicals

Primary Applications

- Water and wastewater treatment (chemical dosing, sludge transfer)
- Mining and minerals processing (slurries, abrasive media)
- Chemical manufacturing and transfer
- Food and beverage production (viscous syrups, flavorings, additives)
- Pulp and paper industry (pigments, fillers, and coatings)



Technical Specifications

| Models | DFB10 | DFB13 | DFB16 | DFB19 | DFB22 |
|--|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Maximum Continuous Flow Capacity (GPH / l/h) | 25.5 / 97 | 42.2 / 160 | 102.1 / 386 | 136.5 / 517 | 273 / 1,033 |
| Maximum Intermittent Flow Capacity (GPH / l/h) | 36.5 / 138 | 60.2 / 228 | 145.8 / 552 | 195 / 738 | 390 / 1,476 |
| Flow per Revolution (gal / l) | 0.006 / 0.023 | 0.01 / 0.039 | 0.024 / 0.092 | 0.032 / 0.123 | 0.066 / 0.246 |
| Maximum Speed (rpm) | 100 | 100 | 100 | 100 | 100 |
| Maximum Pressure (Hoses) (psi / bar) | 116 / 8 | 116 / 8 | 116 / 8 | N/A | 116 / 8 |
| Maximum Pressure (Tubing) (psi / bar) | 30 / 2 | 30 / 2 | 30 / 2 | 30 / 2 | 30 / 2 |
| Suction Lift (ft / m) | 26 / 8 | 26 / 8 | 26 / 8 | 26 / 8 | 26 / 8 |
| Connector Size (inches) | 3/8 MNPT | 3/8 MNPT | 3/4 MNPT | 1 MNPT | 1 MNPT |
| DFBu Dimensions WxH (inches / mm) (Length varies based on motor and gearbox selected) | 7.5x8.3 / 190x210 | 7.5x8.3 / 190x210 | 7.5x10.4 / 190x265 | 7.5x10.4 / 190x265 | 9.6x14.0 / 245x355 |
| DFBr Dimensions LxWxH (inches / mm) | 11.3x10.1x19.4 / 287x256x492 | 11.3x10.1x19.4 / 287x256x492 | 14.3x13.4x30.7 / 363x340x780 | 11.7x11.9x20.6 / 297x303x523 | 13.7x14.9x27.8 / 348x378x706 |
| Weight (lbs. / kg) | 13 / 6 | 13 / 6 | 29 / 13 | 29 / 13 | 49 / 22 |

| Additional Specification | |
|-------------------------------------|-------------------------------|
| Metering Reproducibility | 1-2% |
| Maximum Viscosity (cPs) | 20,000 |
| Ambient Temperature Range (°F / °C) | 14 - 104 / -10 - 40 |
| Available Tube Materials | Norprene |
| Available Hose Materials | NR, NBR, EPDM, NBR-A, Hypalon |
| Available Certifications | NSF/ANSI/CAN 61 |
| Media Temperature Range (°F / °C) | 14 - 176 / -10 - 80 |



DULCOFLEX DFBu



DULCOFLEX DFBu Vertical

Heavy-Duty Peristaltic Pumps

DULCOFLEX® DFCu Series

High Capacity ■ Rugged Design ■ Reliable Performance

The DULCOFLEX® DFCu Series represents the pinnacle of industrial-grade peristaltic pumping technology. Built for high-capacity transfer of demanding fluids, the DFCu combines roller-based compression technology with fabric-reinforced hoses, delivering outstanding durability, high precision, and low maintenance.

The DFCu Series is engineered for the toughest municipal, industrial, and chemical applications. It excels in transferring abrasive, viscous, or chemically aggressive media — from sludge and slurries to acids and dyes — with ease and reliability.

Unlike traditional “shoe” peristaltic pumps, the DFCu uses a roller compression system that eliminates the need for a lubricant bath, uses 20-30% less power when compared to a shoe design, reduces hose wear, and simplifies service. Designed with disaster-proof hose connections, self-priming, and dry-run capability, the DFCu ensures operational confidence even in the most demanding process environments.

Features & Benefits

- High Flow and Pressure Capability Reliably moves high volumes of tough materials
- Roller Compression Technology..... Longer hose life, cleaner operations, and lower cost of ownership
- Disaster-Proof Hose Connections..... Prevents hose blowouts and leaks
- Dry-Run Capability Safe operation without fluid
- Self-Priming Capability..... Simple startup, no priming
- Seal-Free and Valve-Free Construction Minimizes leaks, cross-contamination, or clogging
- Excellent Solids Handling..... Perfect for sludge, lime slurry, or thick suspensions
- Halar® Coating Option..... Maximum chemical corrosion protection
- Hinged Door Design (DFC80 only) Safer and faster hose changes
- No Liquid Lubricant..... Lower hose replacement costs, reduced disposal expenses, and low-level sensors that prevent the housing from filling with product

Primary Applications

- Water & Wastewater Treatment
(Sludge transfer, lime slurry, polymer dosing)
- Chemical Processing
(Acids, caustics, oxidizers, solvents)
- Pulp & Paper
(Pigments, coatings, fillers)
- Mining & Minerals
(Slurries, abrasive mixtures)
- Food & Beverage
(Wine, beer, flavorings, syrups)
- Inks & Dyes
(Thick or particulate-laden liquids)
- Municipal Systems
(Chlorine, sodium hypochlorite, or caustic soda transfer)
- Breweries & Wineries
(Barrel filling, diatomaceous earth (DE), wine must, yeast dosing)



Technical Specifications

| Models | DFC30 | DFC40 | DFC50 | DFC60 | DFC70 | DFC80 |
|---|------------------------|------------------------|------------------------|------------------------|----------------------------|--------------------------|
| Maximum Continuous Flow Capacity (GPM / l/m) | 6.8 / 25.8 | 13.6 / 51.6 | 23.3 / 88.2 | 35.5 / 134.5 | 71 / 269 | 123.6 / 468 |
| Maximum Intermittent Flow Capacity (GPM / l/m) | 9.1 / 34.4 | 18.2 / 68.8 | 31.1 / 117.6 | 42.6 / 161.4 | 88.8 / 336 | 185.5 / 702 |
| Flow per Revolution (gal / l) | 0.11 / 0.43 | 0.23 / 0.86 | 0.39 / 1.5 | 0.71 / 2.7 | 1.78 / 6.7 | 3.1 / 11.7 |
| Maximum Speed - Continuous / Intermittent (rpm) | 60 / 80 | 60 / 80 | 60 / 80 | 50 / 60 | 40 / 50 | 40 / 60 |
| Maximum Pressure (Hoses) (psi / bar) | 116 / 8 | 116 / 8 | 116 / 8 | 116 / 8 | 116 / 8 | 116 / 8 |
| Maximum Pressure (Tubing) (psi / bar) | 30 / 2 | 30 / 2 | 30 / 2 | 30 / 2 | n/a | n/a |
| Suction Lift (ft / m) | 26 / 8 | 26 / 8 | 26 / 8 | 26 / 8 | 26 / 8 | 26 / 8 |
| Connector Size (inches) ANSI 150# Flanged | 1-1/4 | 1-1/2 | 1-1/2 | 2 | 2-1/2 | 3 |
| Dimensions WxH (inches / mm) (Length varies based on motor / gearbox selected) | 18.5x16.7 / 471x425 | 21.7x24.1 / 552x613 | 24.9x25.4 / 633x645 | 28.9x31.7 / 735x805 | 43.3x44.3 / 1,100x1,124 | 51.5x48.2 / 1307x1225 |
| Weight without Drive (lbs. / kg) | 132 / 62 | 196 / 89 | 309 / 140 | 518 / 235 | 970 / 440 | 2,205 / 1,000 |

| Additional Specifications | |
|-------------------------------------|--------------------------------------|
| Metering Reproducibility | 1-2% |
| Maximum Viscosity (cPs) | 30,000 (30/40/50), 45,000 (60/70/80) |
| Ambient Temperature Range (°F / °C) | 14 - 104 / -10 - 40 |
| Available Tube Materials | Norprene (up to DFCu60 only) |
| Available Hose Materials | NR, NBR, EPDM, NBR-A, Hypalon |
| Available Certifications | NSF/ANSI/CAN 61 |
| Media Temperature Range (°F / °C) | 14 - 176 / -10 - 80 |



Hinged Door Design (DFC80 only)

High-Pressure, High-Capacity Peristaltic Pumps

DULCOFLEX® DFDu Series Power ■ Performance ■ Precision

The DULCOFLEX® DFDu Series represents the heavy-duty powerhouse of ProMinent's peristaltic pump range. With its sturdy steel shoe compression system, fabric-reinforced hoses, and proprietary lubrication, the DFDu achieves exceptional durability, quiet operation, and extended service life — even in the most challenging fluid-handling conditions.

The DFDu is built for high-flow, high-pressure performance with superior long-term reliability. Its steel shoe compression system delivers smooth, efficient hose compression that reduces wear and heat, while our food-grade lubricant and heat-sink fins ensure cool, low-friction operation for continuous-duty use. With fabric-reinforced hoses, disaster-proof connections, and strong suction lift, the DFDu handles heavy slurries, chemical sludges, and abrasive or corrosive fluids with confidence. Designed for quiet, low-vibration operation and extended hose life, this heavy-duty peristaltic pump excels in demanding 24/7 industrial environments where uptime, durability, and reliable performance are essential.

Features & Benefits

- High Flow and Pressure Capability Large volume output with high pressures
- Steel Shoe Compression System..... Reliable performance at maximum pressure
- Food-Grade Glycerin Lubricant..... FDA approved, blended for superior hose life
- Heat Sink Fins for Cooler Operation Cool operation that extends service life
- High Suction Lift..... Strong vacuum capability for flexible installations
- “Disaster-Proof” Hose Connections..... Maximum safety under high pressures
- Dry-Run Capability No damage if supply tank runs out
- Seal-Free and Valve-Free Design No leaks, no clogging
- High Discharge Performance Consistent flow, precise control
- Halar® Coating Option..... Superior chemical corrosion protection
- Optimized Components Long service life, lower ownership costs
- DFDa100 Duplex Design Version For high flow needs of up to 420 GPM (1,583 l/m)

Primary Applications

- Water & Wastewater Treatment (Sludge, lime slurry, polymer feed)
- Chemical Manufacturing & Transfer (Acids, caustics, and corrosive chemicals)
- Mining & Minerals (Slurries, tailings, abrasive suspensions and thickener underflow)
- Pulp & Paper (Pigments, coatings, and fillers)
- Food & Beverage (Wine, syrups, and viscous liquids)
- Power & Utility (Chemical injection and process water treatment)
- Breweries & Wineries (Clean handling of viscous or shear-sensitive liquids)



Technical Specifications

| Models | DFD25 | DFD32 | DFD40 | DFD60 | DFD70 | DFD80 | DFD100 |
|--|---------------------|---------------------|---------------------|---------------------|-------------------------|----------------------------------|--------------------------------|
| Maximum Continuous Flow Capacity (GPM / l/m) | 4.76 / 18 | 9.83 / 37.2 | 21.1 / 79.8 | 38.3 / 145 | 79.7 / 301.5 | 123.6 / 468 | 158.5 / 600 |
| Maximum Intermittent Flow Capacity (GPM / l/m) | 6.34 / 24 | 13.1 / 49.6 | 28.1 / 106.4 | 46 / 174 | 106.2 / 402 | 185.5 / 702 | 211.4 / 800 |
| Flow per Revolution (gal / l) | 0.08 / 0.3 | 0.16 / 0.62 | 0.35 / 1.33 | 0.77 / 2.9 | 1.77 / 6.7 | 3.1 / 11.7 | 5.3 / 20 |
| Maximum Speed - Continuous / Intermittent (rpm) | 60 / 80 | 60 / 80 | 60 / 80 | 50 / 60 | 45 / 60 | 40 / 60 | 30 / 40 |
| Maximum Pressure (Hoses) (psi / bar) | 232 / 16 | 232 / 16 | 232 / 16 | 232 / 16 | 232 / 16 | 232 / 16 | 232 / 16 |
| Suction Lift (ft / m) | 29 / 8.8 | 29 / 8.8 | 29 / 8.8 | 29 / 8.8 | 29 / 8.8 | 29 / 8.8 | 29 / 8.8 |
| Connector Size (inches) ANSI 150# Flanged | 1 | 1-1/4 | 1-1/2 | 2 | 2-1/2 | 3 | 4 |
| Dimensions WxH (inches / mm) - length varies based on motor and gearbox selected | 18.5x16.7 / 471x425 | 21.7x24.1 / 552x613 | 24.9x25.4 / 633x645 | 28.9x31.7 / 735x805 | 43.3x44.3 / 1,100x1,124 | 47.2x43x49.6 / 1,200x1,093x1,260 | 59x53.5x58 / 1,500x1,360x1,474 |
| Weight without Drive (lbs. / kg) | 126 / 57 | 196 / 89 | 331 / 150 | 556 / 252 | 1,168 / 530 | 1,984 / 900 | 2,425 / 1,100 |

| Additional Specifications | |
|-------------------------------------|--|
| Metering Reproducibility | 1-2% |
| Maximum Viscosity (cPs) | 30,000 (25/32/40), 45,000 (60/70/80/100) |
| Ambient Temperature Range (°F / °C) | 14 - 113 / -10 - 45 |
| Available Tube Materials | n/a |
| Available Hose Materials | NR, NBR, EPDM, Hypalon |
| Maximum Media Temperature (°F / °C) | 14 - 176 / -10 - 80 |

| Models | Lubrication Volume gal (L) |
|--------|----------------------------|
| DFD25 | 0.5 (2) |
| DFD32 | 0.79 (3) |
| DFD40 | 1.32 (5) |
| DFD60 | 2.64 (10) |
| DFD70 | 7.9 (30) |
| DFD80 | 13.2 (50) |
| DFD100 | 18.49 (70) |



DULCOFLEX Tubes and Hoses

The tube or hose is the heart of every peristaltic pump. It is the only component to come in contact with the transferred media/chemical and the key to reliable, long-lasting performance. Selecting a hose designed for the specific chemical and operating conditions is essential to maximizing service life, reducing downtime, and lowering maintenance and replacement costs.

To ensure optimal performance and durability, consider the following factors:

- **Chemical Compatibility** – Match the hose material to the media to prevent degradation and extend service life.
- **Pump Speed (RPM)** – Lower speeds (below 30 RPM) reduce mechanical stress and significantly increase hose longevity.
- **Pressure** – Higher discharge pressures increase compression forces on the hose, adding additional stress.
- **Temperature** – Elevated fluid temperatures can soften or swell hose materials, accelerating fatigue.
- **Suction Conditions** – Excessive vacuum can hinder the hose's ability to fully rebound, shortening its operational life.



Selecting the right hose—and operating it within the correct parameters—ensures superior performance, maximum uptime, and the lowest total cost of ownership.

Hoses Engineered for Maximum Performance and Extended Service Life

ProMinent hoses are purpose-built to withstand the toughest peristaltic pump applications. Available in a wide range of materials—including FDA-compliant options—and with stainless-steel or PVDF (Kynar®) connections, our hoses deliver unmatched durability, precision, and reliability. What sets ProMinent hoses apart is the superior engineering behind every layer:



- **Calendered Construction for Superior Uniformity**
 - Creates uniform, precisely layered, reinforced walls—delivering greater strength, flexibility, and dimensional accuracy than extruded hoses.
- **Wrapped Inner and Outer Layers for Long Life**
 - Allows the hose to flex naturally with reduced friction and heat, preserving hose integrity and minimizing roller or shoe wear.
 - Resists cracking, fatigue, and deformation under continuous compression, while maintaining even wall thickness for accurate, repeatable dosing.
- **Nylon Reinforcement for High Pressure Capability**
 - Adds structural strength to the hose for improved pressure handling.
- **Additional Cord Layers for Enhanced Durability**
 - Distributes load evenly, significantly reducing fiber fatigue and extending service intervals.

Ask us about available hoses, manufactured to these same standards, for non-ProMinent peristaltic pumps.



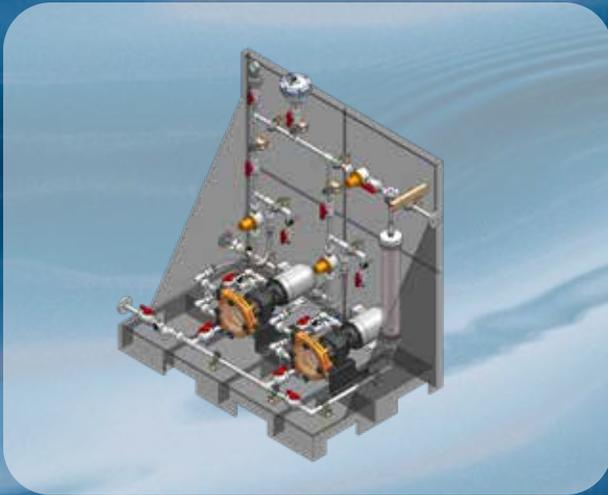
Shoe vs. Roller



| | Material | Characteristics | Max. Pressure / Temp. | Compatible Pump Types |
|-------|---|--|------------------------------------|---|
| TUBES |  Santoprene NSF61 | Excellent chemical, abrasion and fatigue resistance. Can withstand sterilization methods. | 102 psi (7 bar) 176 °F (80 °C) | DFXa 530, DFXa 730 |
| |  TPV-FDA | As above, but with FDA-compliant seal material. | 102 psi (7 bar) 176 °F (80 °C) | DFXa530, DFXa 730 |
| |  Polyurethane NSF61 | Good durability, flexibility and chemical resistance. Excellent abrasion resistance. | 73 psi (5 bar) 176 °F (80 °C) | DFXa530, DFXa 565 |
| |  PUR-FDA | As above, but with FDA-compliant seal material. | 73 psi (5 bar) 176 °F (80 °C) | DFXa 530, DFXa 565 |
| |  SEBS NSF61 | Good chemical and abrasion resistance. High elasticity which extends life. | 43 psi (3 bar) 176 °F (80 °C) | DFXa 365 |
| HOSES |  Norprene (TPE) FDA Compliant | Excellent chemical resistance and long flex life, particularly in harsh environments. Wide temperature range. Not for abrasives. FDA: Title 21, CFR Sect 21 177.2600 | 30 psi (2 bar) 248 °F (120 °C) | All Models of DFYa, DFBu, and DFCu 30/40/50/60 |
| |  NBR | Resistant to oils (non-mineral), alkalis, greases and detergents. Good for abrasives. | 232 psi (16 bar) 176 °F (80 °C) | All Models of DFYa, DFBu (except 19), DFCu, DFDu |
| |  NBR-A FDA Compliant | Food products including oils and greases and detergents. Good for abrasives. FDA: Title 21, CFR Sect 21 177.2600 | 232 psi (16 bar) 176 °F (80 °C) | DFYa 200/410/660, DFBu 10/13/16/22, DFCu 30/40/50/60/70 |
| |  EPDM NSF61 | High chemical resistance to concentrated acids, corrosive chemicals, ketones and alcohols. Excellent abrasive protection. | 232 psi (16 bar) 176 °F (80 °C) | All Models of DFYa, DFBu (except 19), DFCu, DFDu |
| |  Hypalon (CSM) NSF61 | For highly corrosive products and high concentration acids. High abrasion resistance. Waterproof and impermeable. | 232 psi (16 bar) 176 °F (80 °C) | DFYa 200/410/660, DFBu 10/13/16/22, DFCu 30/40/50/60/70, DFDu 25/32/40/70 |
| |  NR NSF61 | Outstanding abrasion resistance. Generally resistant to diluted acids and alcohols. Strongest and longest lasting. | 232 psi (16 bar) 176 °F (80 °C) | All Models of DFYa, DFBu (except 19), DFCu, DFDu |

Complete Pump-Skid Packages

ProMinent delivers complete, ready-to-use peristaltic pump systems engineered for reliability and simplicity. With all components sourced from a single trusted manufacturer, you eliminate interface issues, onsite assembly, and integration headaches. Choose from rapid-delivery pre-engineered packages or fully customized systems tailored to your process and installation requirements. Connect with our experts to see how we can design the ideal solution for your operation.



IN-HOUSE CAPABILITIES

Standard & Custom System Design and Engineering

Custom Sensor Panel Fabrication and Testing

Component and System Manufacturing

Factory Testing and Certification of all Systems

AFTERMARKET SUPPORT

Large Inventory of Parts and Components

Service Support: Phone, On-site and/or Start-Up

Maintenance, Repair and Troubleshooting of Equipment

Training: Certified Service Partner, Operational, Maintenance, General Product

PROVEN SOLUTIONS THAT MEET YOUR NEEDS

ProMinent Fluid Controls, offers the highest quality metering pumps, disinfection systems, polymer preparation systems, metering systems for solids, instrumentation, and custom designed systems. The Group is headquartered in Heidelberg, Germany with more than 3,000 employees throughout 50 sales and service locations and 12 production sites. With over 60 years of experience, our expertise and wide range of products positions us as your reliable solution partner for the treatment of water.

To learn how we can help solve your water treatment challenges, contact us at:

US OFFICE:

Pittsburgh, PA ■ (412) 787-2484

prominentcsd-us@prominent.com
www.prominent.us

CANADA OFFICE:

Guelph, ON ■ 1-888-709-9933

sales-can@prominent.com
www.prominent.ca