

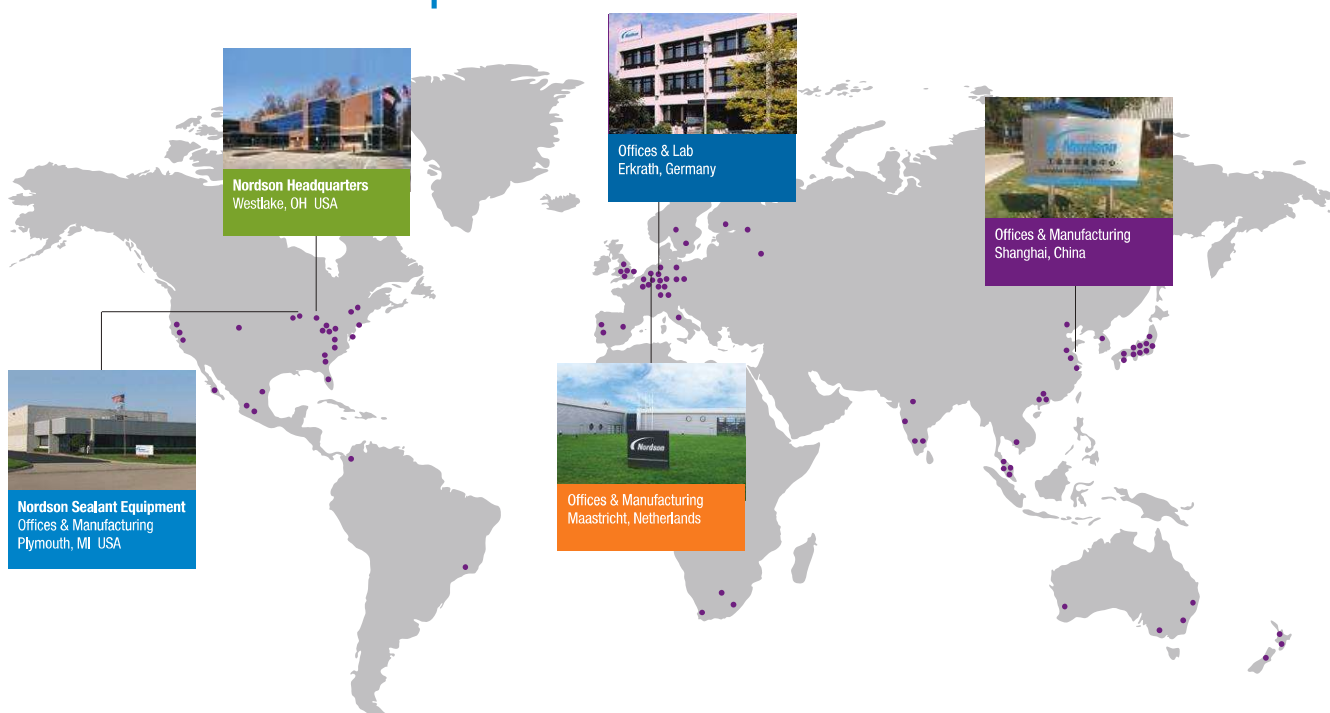


Metering, Mixing & Dispensing Systems

For Bonding, Sealing, Potting, Casting, Encapsulation, Gasketing and More



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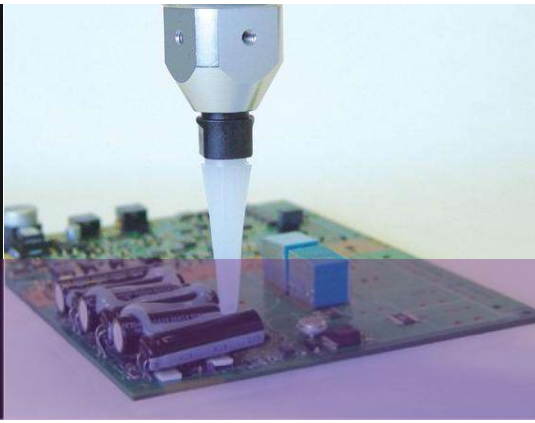
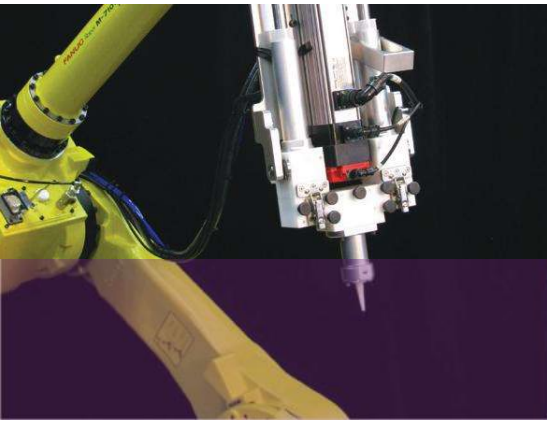


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For more information about Nordson Sealant Equipment's complete line of dispensing solutions, contact us at:

SealantSales@nordson.com

www.nordson.com/nse

Applications

Aerospace Dispensing

Automotive Paint Shop

Appliance Bonding

Battery Dispensing

Construction Dispensing

Electronic Potting

Electronic Bonding

Filter Molding

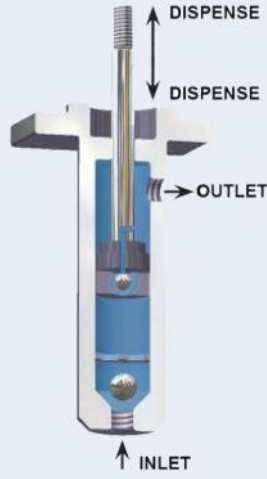
Lighting Gaskets

Robot Integration

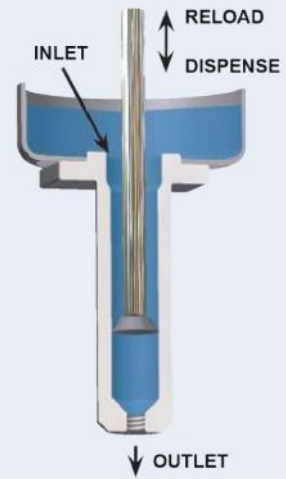
Principles of Meter Design



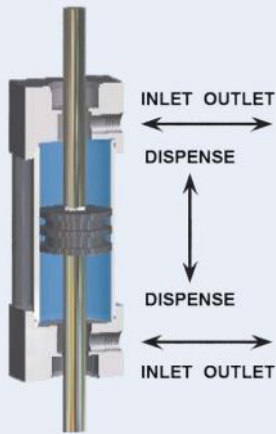
Positive Rod Displacement



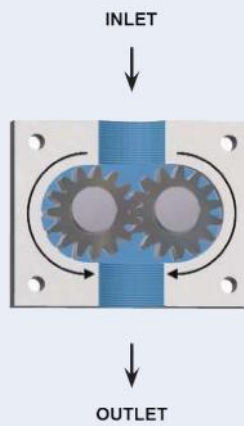
Double Acting Piston



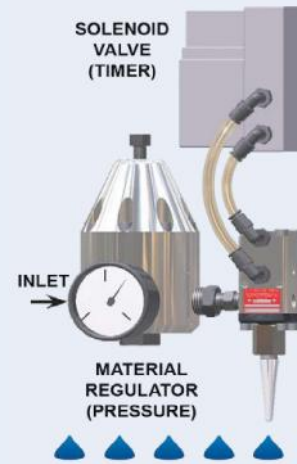
Piston Cup Metering



Reciprocating Piston



Precision Gear Metering



Time and Pressure

2-Part Metering & Mixing Systems

Pro-Meter® V2K

Compact Benchtop 2-Part Dispensing System

With an innovative design and tough construction, it won't let you down when you need to get the job done, without compromising on quality or production speed, whatever you throw in the mix; whether it's abrasives or filled materials.

Powered by Positive Rod Precision

- **Massive on Precision** – Positive rod displacement metering technology proportions materials to the exact volumetric ratio specified by manufacturers, time and time again.
- **Small on Size** – This compact benchtop unit is one of the smallest around, allowing it to quickly get to work in virtually any workshop location.
- **Low on Costs** – The costs of ownership are equally predictable. Not only does the unit come with one of the lowest price tags for this specification, but it also reduces stoppage time and maintenance for more metering at less expense.

Precision + Performance = Pro-Meter V2K

- **Versatile Feed System** – Easy gravity-fed loading of pourable materials – no pumps needed. A pressure feed option is also available for higher viscosity materials.
- **Advanced Valve Technology** – Snuf-Bak™ or No-Drip® valve options allow precision handling of both high and low viscosity materials.
- **Compact Benchtop Unit** – Measuring just 31" x 31" x 17" (788 x 788 x 432 mm), the compact unit is a true benchtop device that can quickly and easily be located where the work is required.



| System Specifications | |
|-----------------------|---------------------------|
| Metering Principle | Positive Rod Displacement |
| Drive Type | Pneumatic |
| Material Delivery | Shot or Bead |
| Shot Size Range | Up to 184 cc at 1:1 Ratio |
| Ratio Range | 1:1 up to 20:1 |
| Viscosity Range | Liquid to Viscous Liquid |
| Supply Type | Gravity Feed or Tank |
| Maximum Flow Rate | 2 liters/min |

www.sealantequipment.com/V2K

2-Part Metering & Mixing Systems



Pro-Meter 2K Series Precision. As Standard.

- **Accurate** – Uses electronic pressure monitoring to ensure consistent process parameters part to part.
- **Flexible** – Shot size and flow rate adjustment available on demand using simple control panel.
- **Low Maintenance** – Heavy duty packings and seals minimize wear and increase lifespan in tough manufacturing environments.
- **Durable** – Dispense abrasive or filled materials with no loss of accuracy.
- **Dependable** – Rods do not touch cylinder walls, reducing wear and downtime.

Pro-Meter® H2K Air-over-Oil Drive Meter System

- On-Ratio – Power inlet and outlet valves eliminate material bypass and ensure ratio precision and consistency.
- Used to dispense an infinite dispense volume, using a totalizing program, where the meter dispenses multiple shots per stroke of the meter, until the dispense volume is achieved.

www.sealantequipment.com/H2K

Pro-Meter® A2K Single Servo Drive Meter System

- On-Ratio – Single servo motor driving two rods ensures materials are always moving together, creating the most accurate ratio repeatability.
- Enables dispensing of precision beads and precise dispense volumes; when dispensing a bead, the servo speed (flow rate of material) is correlated to the tool tip speed of the motion platform that presents the product.

www.sealantequipment.com/A2K

Pro-Meter® D2K Dual Servo Drive Meter System

- Enables independent pre-pressure of both A and B side materials, allowing for the best mix of dissimilar materials. Features ability to simply make ratio changes by easily changing ratio demand in control panel.

www.sealantequipment.com/D2K

| Model | H2K | A2K | D2K |
|---|---------------------------|-----------------|------------|
| Drive Type | Air-Over-Oil | Servo | Dual Servo |
| Metering Principle | Positive Rod Displacement | | |
| Applications | Potting | Potting or Bead | |
| Viscosity Range | Liquid to Paste | | |
| Ratio Range | 1:1 to 10:1 | | |
| Shot Size Range | Up to 221 cc at 1:1 ratio | | |
| Fixed Flow Rate | ■ | – | – |
| Variable Flow Rate | – | ■ | ■ |
| Multiple Shot Output Per Cycle | – | ■ | ■ |
| Independent Speed Control of Dissimilar Materials | – | – | ■ |
| Up to 255 Programmable Dispense Volumes | ■ | ■ | ■ |



801 Meter Series

| System Specifications | |
|-----------------------|------------------------------------|
| Metering Principle | Positive Rod Displacement |
| Drive Type | Single Servo |
| Material Delivery | Shot or Bead |
| Shot Size Range | Up to 24 cc (0.81 oz) at 1:1 Ratio |
| Ratio Range | 1:1 up to 10:1 |
| Viscosity Range | Liquid to Paste |
| Supply Type | Pump or Tank |

Purpose designed for table top or robotic applications, the 801 series are small, light-weight meters that provide powerful yet precise dispensing where you need it in 2-part (2K / 2-component) applications.

www.sealantequipment.com/sf801



202 Meter

| System Specifications | |
|-----------------------|-----------------------------------|
| Metering Principle | Positive Rod Displacement |
| Drive Type | Air-Over-Oil |
| Material Delivery | Shot |
| Shot Size Range | Up to 7 cc (0.24 oz) at 1:1 Ratio |
| Ratio Range | 1:1 up to 10:1 |
| Viscosity Range | Liquid to Light Paste |
| Supply Type | Pump or Tank |

A compact, economical meter that delivers consistent flow rate in low volume potting, micro-encapsulation or filling applications using 2-part (2K / 2-component) materials.

www.sealantequipment.com/sf202



391 Meter

| System Specifications | |
|-----------------------|-----------------------------------|
| Metering Principle | Positive Rod Displacement |
| Drive Type | Air Drive |
| Material Delivery | Shot |
| Shot Size Range | Up to 7 cc (0.24 oz) at 1:1 Ratio |
| Ratio Range | 1:1 up to 10:1 |
| Viscosity Range | Liquid to Light Paste |
| Supply Type | Pump or Tank |

A compact and economical meter, mix and dispense system, perfect for small volume shot dispensing or potting in 2-part (2K / 2-component) material applications.

www.sealantequipment.com/sf391

2-Part Metering & Mixing Systems



488 Meter Series

| System Specifications | |
|-----------------------|--|
| Metering Principle | Positive Rod Displacement |
| Drive Type | Air-Over-Oil or Servo |
| Material Delivery | Shot or Bead |
| Shot Size Range | Up to 1,359 cc (45.95 oz) at 1:1 Ratio |
| Ratio Range | 1:1 up to 10:1 |
| Viscosity Range | Liquid to Paste |
| Supply Type | Pump or Tank |

One of the highest capacity shot meters on the market, the 488 series is ideal for dispensing large volumes of abrasive materials where traditional continuous flow technology cannot be used.

www.sealantequipment.com/sf488



7 Series

| System Specifications | |
|-----------------------|-------------------------------|
| Metering Principle | Balanced Double Acting Piston |
| Drive Type | Air Drive |
| Material Delivery | Shot or Continuous Flow |
| Shot Size Range | Minimum 100 cc (3.38 oz) |
| Ratio Range | 1:1 up to 10:1 |
| Viscosity Range | Liquid |
| Supply Type | Tank |

A variable ratio continuous flow or shot dispensing meter ideal for low viscosity applications.

www.sealantequipment.com/sf7



582 Meter Series

| System Specifications | |
|-----------------------|-------------------------------|
| Metering Principle | Balanced Double Acting Piston |
| Drive Type | Air Drive |
| Material Delivery | Shot or Continuous Flow |
| Shot Size Range | Minimum 100 cc (3.38 oz) |
| Ratio Range | 1:1 up to 10:1 |
| Viscosity Range | Liquid |
| Supply Type | Tank |

Ideal for the delivery of high volumes of low viscosity materials.

www.sealantequipment.com/sf582



704 Meter Series

| System Specifications | |
|-----------------------|----------------------------------|
| Metering Principle | Precision Gear |
| Drive Type | Dual Servo or AC Frequency Motor |
| Material Delivery | Shot or Continuous Flow |
| Shot Size Range | Minimum 3 cc (0.10 oz) |
| Ratio Range | 1:1 up to 10:1 |
| Viscosity Range | Liquid to Paste |
| Supply Type | Pump or Tank |

Ideal for constant flow rate, continuous dispensing 2-part (2K / 2-component) applications, with a choice of control options, the 704 series uses precision gear metering technology.

www.sealantequipment.com/sf704



Cartridge Servo Dispenser

| System Specifications | |
|-----------------------|-------------------------------|
| Metering Principle | Positive Rod Displacement |
| Drive Type | Single Servo |
| Material Delivery | Bead |
| Flow Rate | 0.1 g/s minimum |
| Ratio Range | NA |
| Viscosity Range | Viscous Liquid to Heavy Paste |
| Supply Type | 6 oz. and 12 oz. cartridges |

Articulating cartridge holder opens to load and unload cartridges to supply material to the dispenser assembly. The integrated dispense valve eliminates dispense hoses and increases accuracy of bead and volume control. The servo drive provides accurate and consistent flow rates to a minimum of 0.1 g/s.

www.sealantequipment.com/CartridgeDispenser



Angstrom Meter

| System Specifications | |
|-----------------------|--|
| Metering Principle | Positive Rod Displacement |
| Drive Type | Single Servo |
| Material Delivery | Shot or Bead |
| Shot Size Range | 0.05 cc (0.002 oz) to 1.2 cc (0.04 oz) at 1:1 ratios |
| Ratio Range | 1:1 up to 10:1 |
| Viscosity Range | Viscous Liquid to Light Paste |
| Supply Type | Cartridge, Pump or Tank |

Extreme precision meter mix dispense system for 2-part adhesives and sealants; dispense volumes are in the range of 0.05 cc (0.002 oz) up to 1.2 cc (0.04 oz) at 1:1 ratio. Bead sizes have been tested as small as 0.3 mm (0.011 in) in diameter at 10:1 ratio.

www.sealantequipment.com/AngstromMeter

1-Part Metering Systems



401 Meter

| System Specifications | |
|-----------------------|---------------------------|
| Metering Principle | Positive Rod Displacement |
| Drive Type | Single Servo |
| Material Delivery | Shot or Bead |
| Shot Size Range | Up to 9 cc (0.30 oz) |
| Viscosity Range | Liquid to Light Paste |
| Supply Type | Pump or Tank |

Compact meter design, ideal for applications that require either high levels of precision or small dispense volumes for 1-part (1k / 1-component) materials.

www.sealantequipment.com/mm1



305 Meter

| System Specifications | |
|-----------------------|---------------------------|
| Metering Principle | Positive Rod Displacement |
| Drive Type | Single Servo |
| Material Delivery | Shot or Bead |
| Shot Size Range | Up to 110 cc (3.72 oz) |
| Viscosity Range | Liquid to Heavy Paste |
| Supply Type | Pump or Tank |

The Servo-Flo 305 is ideal for accurate and repeatable dispensing volumes of 1-part (1K / 1-component) materials up to 110 cc.

www.sealantequipment.com/sf305



PAB3 Meter

| System Specifications | |
|-----------------------|-------------------------------------|
| Metering Principle | Positive Rod Displacement |
| Drive Type | Single Servo |
| Material Delivery | Bead |
| Shot Size Range | 33 cc (1.16 oz) to 275 cc (9.30 oz) |
| Viscosity Range | Liquid to Heavy Paste |
| Supply Type | Pump or Tank |

The PAB3 is ideal for accurate and repeatable dispensing of large volumes of 1-part (1K / 1-component) materials, up to 275 cc (9.30 oz).

www.sealantequipment.com/pab3



995 Meter Series

| System Specifications | |
|-----------------------|-----------------------|
| Metering Principle | Precision Gear |
| Drive Type | Single Servo |
| Material Delivery | Bead |
| Shot Size Range | Minimum 1cc (0.03 oz) |
| Ratio Range | 1-Part Materials |
| Viscosity Range | Liquid to Paste |
| Supply Type | Pump or Tank |

Ideal for constant flow rate, continuous dispensing or high volume dispensing of 1-part (1K / 1-component) applications.

www.sealantequipment.com/sfgear

Dispensing Valves

Snuf-Bak™ Valves

Tip-Seal® Valves

Kiss™ Valves

No-Drip® Valves

2-Part (2K/2-Component) Valves

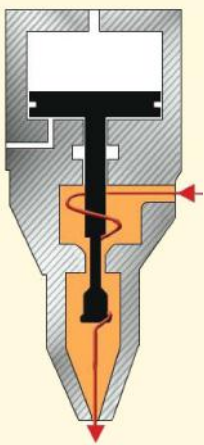
Static and Rotary Dynamic Mixers

Fluid Control Valves, Pressure Regulators

Dispense Nozzles, Valve Accessories



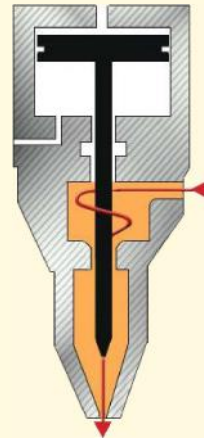
Principles of Valve Design



Snuf-Bak

Ideal for medium to high viscosity, non-level seeking materials and thixotropic or cohesive (stringy) materials for faster shut-off.

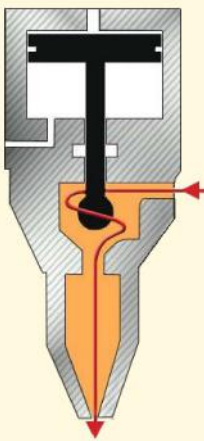
Accepts a wide variety of metal and plastic nozzles for extruding materials.



Tip-Seal

Designed to shut-off material flow of low to high-viscosity materials creating a zero cavity seal at the tip of the nozzle.

A wide variety of tip orifices and tip lengths are available for high speed on-off and precision fluid control applications.

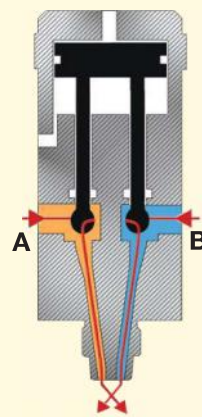


No-Drip

Designed for low-viscosity, pourable materials, abrasive or filled materials and high flow applications. Often used for in-line fluid on/off flow control.

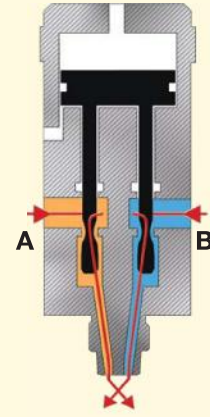
Accepts a wide variety of nozzles for extruding and spraying materials.

2-Part Mix Valve



No-Drip

Ideal for low viscosity 2-part materials.



Snuf-Bak

Best for medium to high viscosity 2-part materials.

Mix at the nozzle applications

Snuf-Bak™ Dispensing Valves



041 Series

- Ideal for 1 mm (0.04 in) - 3 mm (0.12 in) beads
- Compact, easy to mount
- Stainless steel wetted parts

| System Specifications (US / Metric) | |
|-------------------------------------|-------------------------|
| Dry Weight | 1.55 lbs (0.7 kg) |
| Maximum Inlet Fluid Pressure | 4,000 PSI (275 bar) |
| Minimum Inlet Air Pressure | 60 PSI (4.14 bar) |
| Operation | Air open/ Air close |
| Material Delivery | Pump Meter or Tank |
| Viscosity Range | Viscous liquid to Paste |



127 Series

- Ideal for 2 mm (0.08 in) - 5 mm (0.2 in) beads
- Adjustable PTFE packings
- Available in a stainless steel version

| System Specifications (US / Metric) | |
|-------------------------------------|-------------------------|
| Dry Weight | 1.54 lbs (0.7 kg) |
| Maximum Inlet Fluid Pressure | 3,500 PSI (241 bar) |
| Minimum Inlet Air Pressure | 60 PSI (4.14 bar) |
| Operation | Air open/ Air close |
| Material Delivery | Pump Meter or Tank |
| Viscosity Range | Viscous liquid to Paste |



727 Series

- Ideal for 2 mm (0.08 in) - 5 mm (0.2 in) beads
- Available in a square body for robotic mount
- Aluminum wetted parts

| System Specifications (US / Metric) | |
|-------------------------------------|-------------------------|
| Dry Weight | 1.53 lbs (0.7 kg) |
| Maximum Inlet Fluid Pressure | 4,000 PSI (275 bar) |
| Minimum Inlet Air Pressure | 60 PSI (4.14 bar) |
| Operation | Air open/ Air close |
| Material Delivery | Pump Meter or Tank |
| Viscosity Range | Viscous liquid to Paste |



033 Series

- Ideal for beads greater than 3 mm
- Highest volume Snuf-Bak valve
- Designed for automated applications

| System Specifications (US / Metric) | |
|-------------------------------------|-------------------------|
| Dry Weight | 3.1 lbs (1.4 kg) |
| Maximum Inlet Fluid Pressure | 4,000 PSI (275 bar) |
| Minimum Inlet Air Pressure | 60 PSI (4.14 bar) |
| Operation | Air open/ Air close |
| Material Delivery | Pump Meter or Tank |
| Viscosity Range | Viscous liquid to Paste |

Tip-Seal® Dispensing Valves



245 Series

- Ultra compact design
- Tip-length configurable
- 0.06 in - 0.2 in orifice diameter options

System Specifications (US / Metric)

| | |
|------------------------------|--|
| Dry Weight | 1.0 lb (0.45 kg) |
| Maximum Inlet Fluid Pressure | 4,000 PSI (275 bar) |
| Minimum Inlet Air Pressure | 60 PSI (4.14 bar) |
| Operation | Air open/ Air close with spring assist |
| Material Delivery | Pump Meter or Tank |
| Viscosity Range | Liquid to Light Paste |



1051 Series

- Ideal for higher viscosity materials with high flow rates
- Available in aluminum and stainless steel wetted parts
- Up to a 0.125 in orifice

System Specifications (US / Metric)

| | |
|------------------------------|---------------------|
| Dry Weight | 2.75 lbs (1.25 kg) |
| Maximum Inlet Fluid Pressure | 4,000 PSI (275 bar) |
| Minimum Inlet Air Pressure | 60 PSI (4.14 bar) |
| Operation | Air open/ Air close |
| Material Delivery | Pump Meter or Tank |
| Viscosity Range | Liquid to Paste |



035 Series

- Designed for robotic mounting
- Ideal for high flow rate and high pressure applications, up to a 0.19 in orifice
- Aluminum wetted parts

System Specifications (US / Metric)

| | |
|------------------------------|---------------------|
| Dry Weight | 5.44 lbs (2.5 kg) |
| Maximum Inlet Fluid Pressure | 4,000 PSI (275 bar) |
| Minimum Inlet Air Pressure | 60 PSI (4.14 bar) |
| Operation | Air open/ Air close |
| Material Delivery | Pump Meter or Tank |
| Viscosity Range | Liquid to Paste |

For more information about Nordson Sealant Equipment's complete line of dispensing solutions, contact us at:

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www.nordson.com/nse



Kiss™ Extrude, Spray & Stream Valves



| Kiss Extrude, Spray, & Stream Valves | | | | | |
|--------------------------------------|-------------|---------|-------------------------------------|-----------------|---------------------------|
| Item | Part Number | Type | Description | Fluid Body | Outlet |
| 1 | 7425012 | Extrude | with 1/4" NPT(f) Adapter | Aluminum | 1/4" NPT (f) |
| 1 | 7426171 | Extrude | with 1/4" NPT(f) Adapter | Stainless Steel | 1/4" NPT (f) |
| 1 | 7428824 | Extrude | with Mounting Block | Aluminum | 1/4" NPT (f) |
| 1 | 7425139 | Extrude | with Stroke Adjustment | Aluminum | 1/4" NPT (f) |
| 2 | 7425609 | Spray | with Nozzle Collar & Gasket | Aluminum | for Flanged Tip or Nozzle |
| 2 | 7425397 | Spray | with Locating Flats & Dowel | Aluminum | for Flanged Tip or Nozzle |
| 2 | 7425558 | Spray | without Locator Pin in Seat Housing | Aluminum | for Flanged Tip or Nozzle |
| 3 | 7425217 | Spray | for Reverse-A-Clean | Aluminum | 7/8-14 (m) |
| 3 | 7425204 | Spray | for Reverse-A-Clean | Stainless Steel | 7/8-14 (m) |
| 4 | 7425427 | Stream | with Nozzle Cap | Aluminum | for Flanged Tip or Nozzle |
| 5 | 7425534 | Spray | 3-port | Aluminum | for Flanged Tip or Nozzle |

No-Drip® Dispensing Valves



108 Series

- Adjustable PTFE packings
- Designed for a wide range of chemical properties
- Available in a spring-assisted close version

System Specifications (US / Metric)

| | |
|------------------------------|---------------------|
| Dry Weight | 1.46 lbs (0.66 kg) |
| Maximum Inlet Fluid Pressure | 3,500 PSI (241 bar) |
| Minimum Inlet Air Pressure | 60 PSI (4.14 bar) |
| Operation | Air open/ Air close |
| Material Delivery | Pump Meter or Tank |
| Viscosity Range | Liquid to Paste |



1021 Series

- Manual ball and seat design
- Ergonomic pistol grip handle
- Stainless steel and carbide construction

System Specifications (US / Metric)

| | |
|------------------------------|---------------------------|
| Dry Weight | 1.42 lbs (0.64 kg) |
| Maximum Inlet Fluid Pressure | 6,000 PSI (413 bar) |
| Minimum Inlet Air Pressure | NA |
| Operation | Manual open/ Manual close |
| Material Delivery | Pump Meter or Tank |
| Viscosity Range | Liquid to Paste |



- Dynamic seal design for ease of maintenance
- Available in a spring-assisted close version
- Designed for a wide range of chemical properties

System Specifications (US / Metric)

| | |
|------------------------------|---------------------|
| Dry Weight | 1.45 lbs (0.66 kg) |
| Maximum Inlet Fluid Pressure | 4,000 PSI (275 bar) |
| Minimum Inlet Air Pressure | 60 PSI (4.14 bar) |
| Operation | Air open/ Air close |
| Material Delivery | Pump or Tank |
| Viscosity Range | Liquid to Paste |

For more information about Nordson Sealant Equipment's complete line of dispensing solutions, contact us at:

ics.eu@nordson.com

www.nordson.com/nse

2-Part Dispensing Valves



250 Series

- Adaptable to 7/8-9 or 7/8-14 type shrouds
- Available in all stainless steel parts
- Multiple seal configurations are available

System Specifications (US / Metric)

| | |
|------------------------------|--|
| Dry Weight | 3 lbs (1.4 kg) |
| Maximum Inlet Fluid Pressure | 3,500 PSI (241 bar) |
| Minimum Inlet Air Pressure | 60 PSI (4.14 bar) |
| Operation | Air open/ Air close |
| Material Delivery | All 2-Part meter, mix & dispense systems |
| Viscosity Range | Viscous Liquid to Paste |



545 Series

- Designed for low-viscosity, pourable materials and high flow applications
- Adaptable to 7/8-9 or 7/8-14 type shrouds
- Available in a bayonette mixer version

System Specifications (US / Metric)

| | |
|------------------------------|---|
| Dry Weight | 3 lbs. (1.4 kg) |
| Maximum Inlet Fluid Pressure | 3,500 PSI (241 bar) |
| Minimum Inlet Air Pressure | 60 PSI (4.14 bar) |
| Operation | Air open/ Air close with spring assist |
| Material Delivery | All 2-Part meter, mix, & dispense systems |
| Viscosity Range | Liquid to Light Paste |



482 Series Power Mixer

- Ideal solution for dynamic mixing of 2-part (2K/2-component) materials
- Available in a servo-motor version
- Independent control valves to reduce or eliminate lead-lag dispensing issues

System Specifications (US / Metric)

| | |
|------------------------------|--|
| Dry Weight | 12 lbs (5.5 kg) |
| Maximum Inlet Fluid Pressure | 1900 PSI (131 bar) |
| Minimum Inlet Air Pressure | 60 PSI (4.14 bar) |
| Operation | Independent Air open/ Air close with spring assist |
| Material Delivery | All 2-Part meter, mix & dispense systems |
| Viscosity Range | Liquid to Paste |



093 Series

- Ultra compact design
- Independently controlled fluid paths
- All stainless steel parts

System Specifications (US / Metric)

| | |
|------------------------------|--|
| Dry Weight | 1.4 lbs (0.7 kg) |
| Maximum Inlet Fluid Pressure | 3,500 PSI (241 bar) |
| Minimum Inlet Air Pressure | 60 PSI (4.14 bar) |
| Operation | Air open/ Air close |
| Material Delivery | All Micro 2-Part meter, mix & dispense systems |
| Viscosity Range | Liquid to Light Paste |