

Concentric Nebulizers

MEINHARD® Nebulizers

The MEINHARD Concentric Nebulizer reflects exacting standards in design and manufacturing. Its advantages include simplicity of design and operation, reproducible and self-aligning aerosol, and close fabrication control. They provide excellent sensitivity and precision for aqueous solutions and samples with few dissolved solids (less than 1%). MEINHARD Nebulizers are self-aspirating and not to be used with solutions containing hydrofluoric acid. Nebulizers require an end cap (**N0680504**) for use with Scott Spray Chambers.



| Type | ICP-MS Model | Material | Uptake Rate | Part No. |
|-----------|---------------------|----------|-------------|-----------------|
| Type A0.5 | NexION 300/350 | Quartz | 0.5 mL/min | N8145011 |
| Type C0.5 | NexION 300/350 | Glass | 0.5 mL/min | N8145012 |
| Type C3 | ELAN/NexION 300/350 | Glass | 3.0 mL/min | N8102011 |
| Type K3 | ELAN/NexION 300/350 | Glass | 3.0 mL/min | N0681574 |
| Type A3 | ELAN/NexION 300/350 | Quartz | 3.0 mL/min | WE024371 |

Solution Fitting **N8145016** is not included with MEINHARD nebulizers.

MEINHARD Plus Nebulizers

MEINHARD® Plus Nebulizers have the lowest dead volume of any glass or quartz nebulizer. The low dead volume and high sensitivity provide excellent detection limits and washout.



Each nebulizer comes with the FitKit+ gas and sample quick connect fittings. The connections are made with high-purity PFA, minimizing the chance of contamination during backflow events. The gas connection fits snugly over the maria on the sidearm of the nebulizer.

- Self aspiration rate 0.5 mL/min with argon flow 1 L/min at 50 PSI (3.4 bar/345 kPa)
- Peristaltic pumped rate 0.5 mL/min to 1.0 mL/min
- Includes FG Gas Quick Connect (PFA) and F2 Quick Connect with 0.5 mm ID (orange marker) capillary, 70 cm

| Type | ICP-MS Model | Material | Uptake Rate | Part No. |
|-----------|------------------|--------------------------|-------------|-----------------|
| CT R + | NexION 1000/2000 | Glass | 0.5 mL/min | N8152373 |
| CT Q + | NexION 1000/2000 | Quartz | 0.5 mL/min | N8152372 |
| CT SiIQ + | NexION 1000/2000 | Ultra-High Purity Quartz | 0.5 mL/min | N8152384 |
| SiIQ+ | NexION 300/350 | Ultra-High Purity Quartz | 0.5 mL/min | N8122460 |
| TQ+ | NexION 300/350 | Quartz | 0.5 mL/min | N8122461 |
| TR+ | NexION 300/350 | Glass | 0.5 mL/min | N8122462 |

Includes FG Gas Quick Connect (**N8121036**) and F2 Quick Connect (**N8121039**) with 0.5 mm ID (orange marker) capillary, 70 cm

Nebulizer Replacement Parts

| Description | Part No. |
|---|-----------------|
| Nebulizer Clip for MEINHARD Nebulizers | N0777460 |
| Nebulizer Liquid Connector Kit 4 mm 4 in. length by 0.020 in. ID x 0.062 in. OD flanged onto female CTFE fitting. Includes one male barb CTFE fitting | N8145016 |
| Male Barb CTFE Fitting (Part of N8145016) | N8145017 |
| Female Barb CTFE Fitting (Part of N8145016) | N8145018 |
| PFA FG Gas Quick Connect | N8121036 |
| F2 Standard Integrated Capillary (0.5 mm ID Orange 70 cm long) | N8121039 |
| F0 Encapsulated Micro Tubing (0.25 mm ID Green 70 cm long) | N8121038 |
| F1 Detachable Capillary (0.80 mm ID Blue 70 cm long) | N8121037 |
| Spray Chamber Drain Fitting | N8145015 |
| PTFE Sample Capillary 0.062 OD x 0.020 ID | WE024375 |
| MEINHARD® Nebulizer Internal Standard Tee | N8152386 |
| MEINHARD® Plus Nebulizer Fitting for Concentric Nebulizer (N8152378) | N8152387 |
| Peripump Union – Male Barb CTFE Fitting | N8152453 |
| Peripump Union – Female Barb CTFE Fitting | N8152388 |
| MEINHARD® Plus Sample Introduction Line for Concentric Nebulizer | N8145503 |
| Concentric Nebulizer 6 in. Gas Line | N8152385 |

FAST Valve Connecting Lines

| Description | Part No. |
|--|-----------------|
| FAST Valve Connecting Line for ST-Nebulizer, 0.25 mm ID (Green) Attaches to port #3 of the FAST valve, 14 cm | N0777287 |
| FAST Valve Connecting Line for ST-Nebulizer, 0.5 mm ID (Orange) Attaches to port #3 of the FAST valve, 14 cm | N0777288 |
| FAST Valve Connecting Line for ST-Nebulizer, 0.3 mm ID (Yellow) with XL Fitting | N0777769 |
| Internal standard line for P7 valve with XL Fitting, 0.5 mm ID (Orange) | N8145345 |
| F0 FAST Valve Connecting Line for MEINHARD® Plus Nebulizers, 0.25 mm ID (Green) | N8145461 |
| F2 FAST Valve Connecting Line for MEINHARD® Plus Nebulizers, 0.25 mm ID (Green) | N8145346 |
| F0 FAST Valve Connecting Line for MEINHARD® Plus Nebulizers, 0.5 mm ID (Orange) | N8145462 |
| F2 FAST Valve Connecting Line for MEINHARD® Plus Nebulizers, 0.5 mm ID (Orange) | N8145347 |
| FAST Valve Connecting Line for PerkinElmer Gem Cone Nebulizer, 0.50 mm ID (Orange) | N0777659 |
| FAST Valve Connecting Line for PerkinElmer Gem Cone Nebulizer, 1.00 mm ID (Gray) | N0777661 |
| FAST Valve Connecting Line for MIRA MIST Nebulizer, 0.50 mm ID (Orange) | N0777658 |
| FAST Valve Connecting Line for MIRA MIST Nebulizer, 1 mm ID (Gray) | N0777660 |