

MEINHARD®

ICP | ICPMS Sample Introduction Catalog



MEINHARD®

ICP Glass & Quartz Components Since 1974

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pergo Humidifier



Type A Nebulizer



**Peristaltic Pump
Tubing**

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Agilent 4500, 7500, 7700, 7900, 8800 & T-Mode

Quartz Nebulizers

Description	Part Number
MEINHARD® SiIQ+ Ultra high purity quartz nebulizer, low internal volume, nominal uptake 0.5 mL/min, 1 mL/min @ 50 psi, with FG PFA gas fitting and F2 sample uptake line. (See page 33 for more information)	SILQ-50-A0.5
MEINHARD® TQ+ quartz nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi. (See page 33 for more information)	TQP-50-A0.5
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi	TQ-30-A0.5
MEINHARD® Type A quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TQ-30-A1
MEINHARD® Type A quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 2 mL/min, 1 L/min @ 30 psi (G1820-65138)	TQ-30-A2



TQ-30-A2
Type A Quartz
Nebulizer

Glass Nebulizers

Description	Part Number
MEINHARD® TR+ glass nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi. (See page 33 for more information)	TRP-50-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 0.5mL/min, 1L/min @ 30 psi	TR-30-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 1mL/min, 1L/min @ 30 psi (G1820-65030)	TR-30-A1



TR-30-A1
Type A Glass
Nebulizer

PFA Nebulizer

Description	Part Number
MicroFlow PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME204062



ME204062
PFA-ST Nebulizer

Poly-Pro Nebulizer

Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME4040



ME4040
PolyPro-ST Nebulizer

PTFE and PEEK Nebulizers

Description	Part Number
Burgener PTFE MiraMist parallel-path nebulizer. Includes an argon line and sample capillary. (G3161-80001)	TMM3500
Burgener PEEK MiraMist parallel-path nebulizer. Includes an argon line and sample capillary. (G3161-80000)	PMM4000



PMM4000
PEEK MiraMist Nebulizer

Nebulizer Gas Quick Connects

Description	Part Number
Gas Quick Connect for MEINHARD® Nebulizers with PFA-Press Fit for 4 mm tubing. Forms a tight seal over the maria on the sidearm of the nebulizer.	F4
Agilent ICPMS Nebulizer Gas Quick Connect with PFA-Press Fit for 4 mm tubing. Connects to the instrument.	F4-62



F4
Nebulizer Gas Quick Connect

See page 102 for more information.

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers (8100-2051)	PRL-02

See page 83 for more information.



PRL-02
Pearl Nebulizer Cleaner

Spray Chambers

Description	Part Number
Quartz spray chamber, double pass, 12/5 socket for HP4500 and HP7500 (G1820-65337)	ML190013
Quartz spray chamber, double pass, 12/5 socket, extended inner for cross-flow nebulizer (G1820-65339)	ML190014
Quartz spray chamber, top socket, 90° bend	ML190015
Quartz spray chamber with Easy-Seal threaded nebulizer inlet and PFA cap	ML190015ES
Quartz spray chamber, double pass (G3280-80008)	ML190060



ML190013
Double Pass
Spray Chamber

SSI Spray Chamber

Description	Part Number
Quartz SSI high-stability dual spray chamber	ME32621111

PFA Spray Chamber

Description	Part Number
35 mm HF resistant PFA spray chamber with PFA PureCap endcap	ME21225351



ME21225351
35 mm PFA Spray Chamber

PTFE Endcap

Description	Part Number
PTFE adapter (endcap) 6mm nebulizer to 35mm spray chamber (G1820-65121)	MM151030



MM151030
PTFE Endcap

PFA Connectors

Description	Part Number
PFA connector for Agilent 7500 ESI injector	ME21227572
PFA connector for Agilent 7700, 7900, 8800 ESI injector	ME21227772



ME21227572
PFA Connector

Shield Plates

Description	Part Number
Ag Shield Plate (G1833-65419)	MC-65419-Ag
Pt Shield Plate (G1820-65357)	MC-65357
Pt Shield Plate (G1833-65419)	MC-65419



MC-65419-Ag
Ag Shield Plate

Agilent 4500, 7500, 7700, 7900, 8800 & T-Mode

O-Ring-Free Quartz Torches, Demountable Injector

Description	Part Number
7700 quartz torch, demountable	ME13027700
7500 o-ring-free quartz torch, axial, demountable	ME13027500
4500 o-ring-free quartz torch, demountable	ME13024500



ME13024500
Quartz Torch

Quartz One-Piece Torches

Description	Part Number
7500 quartz torch, axial, fixed 2.5 mm injector, 2 placement pins, HMI compatible (G3270-67002)	ML190022
4500 quartz torch, fixed 1.5 mm injector, for organics	ME13024510
4500 quartz torch, fixed 1.0 mm injector, for oils (G1820-65528)	ML190004
4500 quartz torch, fixed 2.5 mm injector (G1820-65028)	ML190005
4500 quartz torch, fixed 1.5 mm injector (G1820-65229)	ML190006
7500 quartz torch, axial, fixed 2.5 mm injector, 2 placement pins, HMI compatible (G1833-65423)	ML190010
7500 quartz torch, fixed 1.5 mm injector, placement pin (G1833-65424)	ML190011
7500 quartz torch, axial, fixed 1.0 mm injector, placement pin, for oils (G1833-65425)	ML190012
7700 quartz torch, fixed 2.5 mm injector (G3280-80001)	ML190050
7700 quartz torch, fixed 1.5 mm injector (G3280-80004)	ML190051
7700 quartz torch, fixed 1.0 mm injector (G3280-80005)	ML190052



ML190010
Quartz Torch with
2.5 mm Injector



ML190008
Quartz Torch

Quartz Torches, Demountable Injector

Description	Part Number
4500 quartz torch, axial, demountable (G1820-65035)	ML190008
7500 quartz torch, axial, demountable, placement pin (G1833-65422)	ML190009

Torch Shields

Description	Part Number
4500 quartz torch shield (G1820-65026)	ML190018
7500 quartz torch shield, 24 mm with edge (G1833-65421)	ML190042

ML190042
Torch Shield



HF Resistant Sample Intro Kits

Description	Part Number
PFA platinum kit for Agilent 7500 includes: 35mm low condensation PFA spray chamber (10mm PFA tube exit), PFA connector for Agilent 7500, PFA Purecap endcap, 2mm platinum injector, o-ring-free quartz torch, two PFA-100 Agilent version nebulizers	ME2161750019
PFA platinum kit for Agilent 7700/7900/8800 includes: 35mm low condensation PFA spray chamber, PFA connector for Agilent 7700, PFA Purecap endcap, 2mm platinum injector, o-ring-free quartz torch, two PFA-100 Agilent version nebulizers	ME2161770019
PFA inert sapphire kit for Agilent 7500 includes: 35mm low condensation PFA spray chamber (10mm PFA tube exit), PFA connector for Agilent 7500, PFA Purecap endcap, 1.8mm o-ring-free sapphire injector, o-ring-free quartz torch, two PFA-100 Agilent version nebulizers	ME2160750019
PFA inert sapphire kit for Agilent 7700/7900/8800 includes: 35mm low condensation PFA spray chamber, PFA connector for Agilent 7700, PFA Purecap endcap, 1.8mm o-ring-free sapphire injector, o-ring-free quartz torch, two PFA-100 Agilent version nebulizers	ME2160770019



ME2161750019
HF Resistant Sample Intro Kit

O-Ring-Free Quartz Injectors, Demountable

Description	Part Number
O-ring-free quartz injector, 1.0 mm	ME13237100
O-ring-free quartz injector, 1.5 mm	ME13237150
O-ring-free quartz injector, 2.0 mm	ME13237200
O-ring-free quartz injector, 2.5 mm	ME13237250



ME13237250
O-ring-free
Quartz Injector

O-Ring-Free Sapphire Injectors, Demountable

Description	Part Number
O-ring-free sapphire injector, HF resistant, 1.0 mm	ME13037100
O-ring-free sapphire injector, HF resistant, 1.5 mm	ME13037150
O-ring-free sapphire injector, HF resistant, 1.6 mm	ME13037160
O-ring-free sapphire injector, HF resistant, 1.8 mm	ME13037180



ME13037180
O-ring-free
Sapphire Injector

O-Ring-Free Platinum Injectors, Demountable

Description	Part Number
O-ring-free platinum injector, HF resistant, 1.5 mm	ME13137150
O-ring-free platinum injector, HF resistant, 1.8 mm	ME13137180
O-ring-free platinum injector, HF resistant, 2.0 mm	ME13137200
O-ring-free platinum injector, HF resistant, 2.5 mm	ME13137250



ME13137200
O-ring-free
Platinum Injector

Ball To Socket Adapters

Description	Part Number
4500 quartz adapter, ball to socket, 56 mm (G1820-80237)	ML190038
7500 quartz adapter, ball to socket, 82 mm (G1833-65426)	ML190041
7700 quartz adapter, ball to socket, 103 mm (G3270-80025)	ML190066
4500 Pyrex adapter, ball to socket, 56 mm (G1820-80235)	ML190045
7500 Pyrex adapter, ball to socket, 82 mm	ML190040



ML190038
Ball to Socket Adapter

1/4" To Socket Adapter

Description	Part Number
7500 quartz adapter, 1/4" end to socket	ML190033

Ball To Socket T-Connectors

Description	Part Number
7500 quartz T-connector with optional gas inlet, ball to socket, 82 mm (G1833-65427)	ML190044
7700 quartz T-connector with optional gas inlet, ball to socket, 103 mm (G3270-80024)	ML190065



ML190065
Ball to Socket T-Connectors

Agilent 4500, 7500, 7700, 7900, 8800 & T-Mode

Copper Load Coil

Description	Part Number
Copper load coil for Agilent 7500 (G1833-65432)	MC-65432
Silver plated copper load coil for Agilent 7500	MC-65432-Ag



MC-65432
Copper Load Coil

pergo Argon Nebulizer Gas Humidifier

Description	Part Number
pergo argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01
pergo argon high solids accessory including MEINHARD® Type A Plus high performance nebulizer.	PRG-01-MAPlus

See page 21 for more information.



PRG-01
pergo High Solids
Accessory

PC³ Peltier Cooler

Description	Part Number
PC ³ Peltier cooler. Includes a quartz cyclonic spray chamber with 12/5 socket.	ME41621118



ME41621118
PC³ Peltier Cooler

PC³ Mounting Shelves

Description	Part Number
PC ³ mounting shelf for Agilent 7500	ME29996221
PC ³ mounting shelf for Agilent 7700	ME29996277



ME29996221
PC³ Mounting Shelf

Electron Multipliers

Description	Part Number
ETP Electron Multiplier, Agilent 4500 (G1820-80386)	MC-AF573
ETP Electron Multiplier, Agilent 7700 / 8000 (5190-0108)	MC-00108
ETP Electron Multiplier, Agilent 7500 (G1833-65420)	MC-AF222



MC-AF222
ETP Electron Multiplier

Sampling Cones

Description	Part Number
Ni plated sampling cone, Cu base (G3280-67061)	MC-67061
Ni sampling cone for T-mode , Ni base (G1820-65480)	MC-65480
Ni sampling cone, Cu base (G3280-67040)	MC-67040
Ni sampling cone, Cu base (G1820-65238)	MC-65238
Pt sampling cone, 10 mm insert, Cu base (G1820-65239)	MC-65239
Pt sampling cone, 18 mm insert, Cu base (G1820-65360)	MC-65360
Pt sampling cone, 18 mm insert, Cu base (G3280-67056)	MC-67056
Pt sampling cone, Cu base, 12 mm (G3280-67036)	MC-67036
Gaskets - Graphite for sampler (qty 3) (G3280-67009)	MC-67009
O-ring - Viton for sampler (qty 1) (G1820-65025)	MC-65025



MC-67040
Ni Sampling Cone

Skimmer Cones

Description	Part Number
Cu skimmer cone, Cu base (G3280-67067)	MC-67067
Ni skimmer cone for T-mode, Ni base (G1820-65481)	MC-65481
Ni skimmer cone, Ni base (G3270-65024)	MC-65024
Ni skimmer cone, Ni base (G1833-65497)	MC-65497
Ni skimmer cone, Ni base (G1820-65050)	MC-67050
Ni skimmer cone, Ni base (G3280-67066)	MC-67066
Ni skimmer cone, Ni base (G3280-67041)	MC-67041
Pt skimmer cone , Cu base (G3280-67060)	MC-67060
Pt skimmer cone, Cu base (G1833-65092)	MC-65092
Pt skimmer cone, Cu base (G1833-65132)	MC-65132
Pt skimmer cone, Cu base (G1820-65237)	MC-65237
Pt skimmer cone, Cu base (G3280-67064)	MC-67064
Pt skimmer cone, Ni base (G3270-60106)	MC-60106
Pt skimmer cone, Ni base (G3280-67065)	MC-67065
Pt skimmer cone, Ni base (G3280-67063)	MC-67063
Ni skimmer cone, Ni base (G8400-67200)	MC-67200
Pt skimmer cone, Cu base (G8400-67201)	MC-67201
Pt skimmer cone, Ni base (G8400-67202)	MC-67202



MC-67064
Pt Skimmer Cone



MC-67041
Ni Skimmer Cone

Cone Cleaning Kit & Detergent

Description	Part Number
Cone Cleaning Kit includes: Course & Fine Alumina Powder, Diamond Abrasive Paste, Synthetic fiber, lint-free cloths, Wooden cotton swabs (qty 50), Foam Tipped ESD Swabs (qty 50) and Maginifier	MC-MNTKIT1
CitranoX Detergent, contains acid ingredients for high-performance removal of metal oxides, salts and inorganic residues combined with full detergent capability. Used on soft metals. 1 gallon	CitranoXDetergent

MC-MNTKIT1
Cone Cleaning Kit

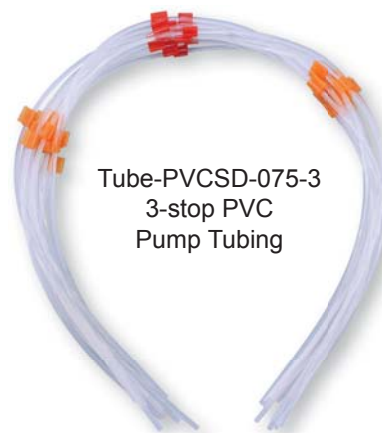


Agilent 4500, 7500, 7700, 7900, 8800 & T-Mode

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

3-Stop PVC Peristaltic Pump Tubing

Description	Part Number
3-stop PVC pump tubing, 0.19 mm ID, (orange/red/orange), 12 pc (G183365571)	Tube-PVCSD-075-3
3-stop PVC pump tubing, 1.02 mm ID, (white/white/white), 12 pc (G183365569)	Tube-PVCSD-40-3
3-stop PVC pump tubing, flared, 0.19 mm ID, (orange/red/orange), 12 pc	Tube-PVCSD-075-3-F



Tube-PVCSD-075-3
3-stop PVC
Pump Tubing

3-Stop Santoprene Peristaltic Pump Tubing

Description	Part Number
3-stop Santoprene pump tubing, 1.52 mm ID, (yellow/blue/yellow), 12 pc (G183365570)	Tube-SanSD-60-3



Tube-SanSD-60-3
3-stop Santoprene
Pump Tubing

2-Stop PVC Peristaltic Pump Tubing

Description	Part Number
2-stop PVC pump tubing, 1.02 mm ID, (white/white), 12 pc (G182065215)	Tube-PVCSD-40
2-stop PVC pump tubing, 1.65 mm ID, (blue/blue), 12 pc	Tube-PVCSD-65
2-stop PVC pump tubing, flared, 0.19 mm ID, (orange/red), 12 pc (G328067008)	Tube-PVCSD-075-F
2-stop PVC pump tubing, flared, 0.27 mm ID, (orange/blue), 12 pc (G328067047)	Tube-PVCSD-10-F



Tube-PVCSD-075-F
2-stop PVC
Pump Tubing

2-Stop SolventFlex Peristaltic Pump Tubing

Description	Part Number
2-stop SolventFlex pump tubing, 1.02 mm ID, (white/white), 12 pc	Tube-SolFSD-40
2-stop SolventFlex pump tubing, 1.65 mm ID, (blue/blue), 12 pc	Tube-SolFSD-65



Tube-SolFSD-40
2-stop SolventFlex
Pump Tubing

Visit www.meinhard.com for additional tubing options.

Standard Solutions

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Elemental Scientific offers single element standards, common standard mixes, custom standards as well as metal-organic standards. Single and custom element standards are offered from two premier standards manufacturers, providing the ease of purchasing primary and secondary standards with the confidence of two independently-certified sources. Standards are shipped with Certificate of Analysis and MSDS sheets.

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- Organometallic Standards
- Single Element Kits



Single Element
Standards
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- ISO Guide 34 Accredited



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for more details and pricing



Quartz Nebulizers

Description	Part Number
MEINHARD® SilQ+ Ultra high purity quartz nebulizer, low internal volume, nominal uptake 0.5 mL/min @ 50 psi, with FG PFA gas fitting and F2 sample uptake line. (See page 33 for more information)	SILQ-50-A0.5
MEINHARD® Type C+ concentric quartz nebulizer with PFA argon and sample line connectors, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TQP-30-C1
MEINHARD® TQ+ quartz nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi (See page 33 for more information)	TQP-50-A0.5
MEINHARD® Type A quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 2 mL/min, 1 L/min @ 30 psi	TQ-30-A2



SILQ-50-A0.5
SilQ+ Quartz
Nebulizer

Glass Nebulizers

Description	Part Number
MEINHARD® TR+ glass nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi	TRP-50-A0.5
MEINHARD® Type C glass nebulizer, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 2 mL/min, 1 L/min @ 30 psi (2010076500)	TR-30-C2
MEINHARD® Type K glass nebulizer, lapped flush nozzle, high solids, recessed (0.5 mm) capillary, nominal uptake 2 mL/min, 0.7 mL/min @ 30 psi (2010069500)	TR-30-K2
MEINHARD® Type K glass nebulizer, lapped flush nozzle, recessed (0.5 mm) capillary, high solids, nominal uptake 3 mL/min, 0.7 L/min @ 30 psi (2010081600)	TR-30-K3



TRP-30-C2
Type C Glass
Nebulizer

PFA Nebulizer

Description	Part Number
MicroFlow PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME2040



ME2040
PFA-ST Nebulizer

Poly-Pro Nebulizer

Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME4040



ME4040
PolyPro-ST Nebulizer

PEEK Nebulizer

Description	Part Number
PEEK MiraMist nebulizer (G3161-80000). Includes an argon line and sample capillary.	PMM4000



PMM4000
PEEK MiraMist Nebulizer

Nebulizer Gas Quick Connects

Description	Part Number
Gas Quick Connect for MEINHARD® Nebulizers with PFA-Press Fit for 4 mm tubing. Forms a tight seal over the maria on the sidearm of the nebulizer.	F4
Agilent ICP Emission Nebulizer Gas Quick Connect with PFA-Press Fit for 4 mm tubing. Connects to the instrument.	F4-66

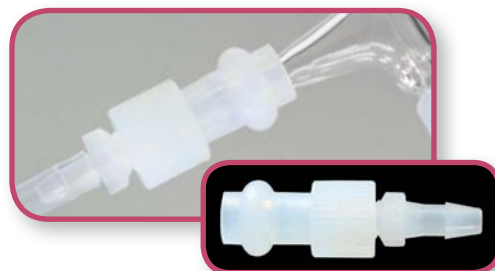


F4
Nebulizer Gas Quick Connect

See page 102 for more information.

FG Gas Quick Connect for MEINHARD® Nebulizers

Description	Part Number
FG Gas Quick Connect for MEINHARD® Nebulizers with maria for both small bore and standard bore nebulizers.	FG



FG
FG Gas Quick Connect

F0 Encapsulated Micro Tubing

Description	Part Number
F0 Encapsulated micro tubing for low uptake rates from 0.1 to 0.5 mL/min and the lowest internal volume of any nebulizer. Includes 0.25 mm i.d. ■ (green marker) 70 cm long micro capillary.	F0-25



F0-25
F0 Encapsulated Micro Tubing

F1 Detachable Capillary

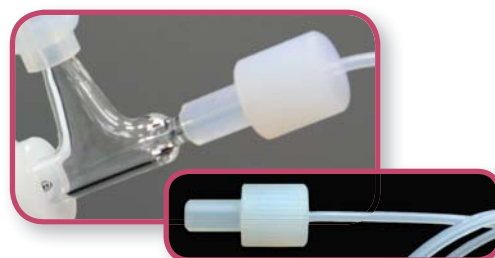
Description	Part Number
F1 Detachable capillary for a wide range of applications. Includes 0.80 mm i.d. ■ (blue marker) 70 cm long capillary.	F1-80



F1-80
F1 Detachable Capillary

F2 Standard PFA Integrated Capillary

Description	Part Number
F2 Standard integrated capillary for self-aspiration or pumping. Includes 0.5 mm i.d. ■ (orange marker) 70 cm long capillary.	F2-50



F2-50
F0 Encapsulated Micro Tubing

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers	PRL-02

See page 83 for more information.



PRL-02
Pearl Nebulizer Cleaner

pergo Argon Nebulizer Gas Humidifier

Description	Part Number
pergo argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01
pergo argon high solids accessory including MEINHARD® Type A Plus high performance nebulizer.	PRG-01-MAPlus

See page 21 for more information.



PRG-01
pergo High Solids Accessory

Cyclonic Spray Chambers

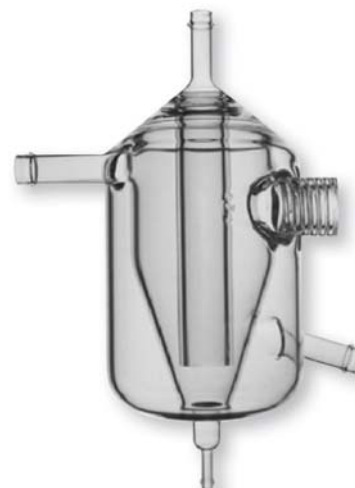
Description	Part Number
Agilent 7x0 (Varian) Pyrex cyclonic spray chamber, baffled, 8 mm top, Unifit (7910043700)	ML180019
Agilent 7x0 (Varian) Pyrex cyclonic spray chamber, baffled, with Easy-Seal threaded nebulizer inlet and PFA cap, 8 mm top, Unifit	ML180019ES
Agilent 7x0 (Varian) Pyrex cyclonic spray chamber, no baffle, 8 mm top, o-ring inlet (2010081700)	ML180021
Agilent 7x0 (Varian) Pyrex cyclonic spray chamber, no baffle, with Easy-Seal threaded nebulizer inlet and PFA cap, 8 mm top	ML180021ES
Agilent 7x0 (Varian) Pyrex cyclonic spray chamber, with baffle, o-ring inlet	ML180022
Agilent 7x0 (Varian) Pyrex cyclonic spray chamber, with baffle, Unifit	ML180013



ML180021
Cyclonic Spray Chamber

Jacketed Spray Chamber

Description	Part Number
Glass spray chamber, jacketed for coolant (9910070400)	ML180023



ML180023
Jacketed Spray Chamber

Unifit Adapter

Description	Part Number
Unifit adapter, 6 mm glass concentric nebulizer to 12 mm inlet port (N0776006)	ML130025



ML130025
Unifit Adapter

PFA Spray Chamber

Description	Part Number
47 mm HF resistant PFA spray chamber with PFA PureCap endcap	ME21285471



ME21285471
47mm PFA Spray Chamber

PFA Spray Chamber Mounting Bracket

Description	Part Number
Mounting bracket for the 47 mm PFA spray chamber ES-2128-5471	ME29996501



ME29996501
Mounting Bracket

Quartz One-Piece Torches

Description	Part Number
Quartz torch, axial with 90° bend, fixed 2.3 mm injector (2010090400)	ML180017
Quartz torch, axial, high solids, fixed injector (2010094800)	ML180050
Quartz torch, axial, fixed 2 mm injector (2010081200)	ML180014
Quartz torch, radial, low-flow, fixed 1.5 mm injector (2010069690)	ML180005
Quartz torch with ball joint, radial, fixed 1.5 mm injector (2010069610)	ML180005B
Quartz torch, radial, fixed 0.8 mm injector (2010117400)	ML180028
Quartz torch, radial, fixed 1.4 mm injector (2010117500)	ML180029
Quartz torch, axial with right angle end, lowflow 0.8mm I.D. injector (2010104700)	ML180026
Quartz torch, radial, high solids 1.8mm I.D. injector (2010095000)	ML180052



ML180017
Quartz One-Piece Torch

Quartz Torches, Demountable Injector

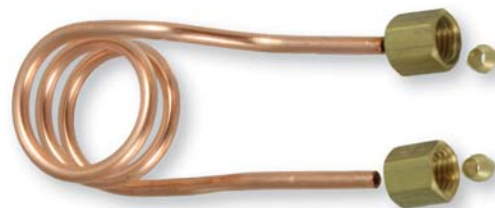
Description	Part Number
Quartz torch, demountable, axial, body only (2010083400)	ML180015
Quartz torch, demountable, radial, body only (2010072900)	ML180010
O-ring-free quartz torch, demountable. Use with ESI o-ring free injectors.	ME1842
Demountable radial torch kit, includes ML180010 radial torch, 700-series; includes ML180045 1.8 mm ceramic injector, MM180048 PTFE support (9910056800)	ML180048



ML180015
Quartz Torch

Copper Load Coils

Description	Part Number
Copper load coil for Agilent/Varian 700-ES and Vista, axial (0110601290)	MC-01290
Copper load coil for Varian Series 2, radial (110590490)	MC-90490



MC-01290
Copper Load Coil

Torch with Demountable Injector

Description	Part Number
Quartz torch, demountable, with o-ring-free sapphire injector in PFA base	ME18421100

Torch Bonnet

Description	Part Number
Quartz torch bonnet, radial (2010070700)	ML180025



ML180025
Torch Bonnet

Quartz Injectors

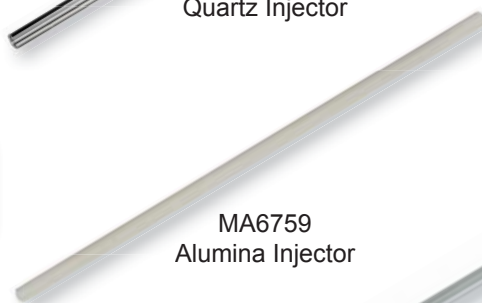
Description	Part Number
Quartz injector, 0.8 mm, for organic samples (2010077500)	ML180047
Quartz injector, 1.4 mm (9910057000)	ML180046



ML180047
Quartz Injector

Alumina Injector

Description	Part Number
Alumina injector, 1.9 mm (2410067590)	MA6759



MA6759
Alumina Injector

O-ring-free Sapphire Injector

Description	Part Number
O-ring-free sapphire injector, 1.8 mm. Use with ESI precision quartz torch (ME1842) and spray chamber (MEK165).	ME18650180



ME18430180
Sapphire Injector

O-ring-free Platinum Injector

Description	Part Number
O-ring-free platinum injector, 2 mm. Use with ESI precision quartz torch (ME1842) and spray chamber (MEK165).	ME18410200

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

Injector Holder

Description	Part Number
PTFE injector holder for Varian-ES series, Liberty, Vista & Ultramass-700 (9910057300)	MM180048



MM180048
Injector Holder

Male Barbed Connector

Description	Part Number
Male barbed PFA connector for transfer line	ME43992300



ME43992300
Male Barbed
Connector

2-Stop PVC Peristaltic Pump Tubing

Description	Part Number
2-stop PVC pump tubing, 0.76 mm ID, (black/black), 12 pc (3710027200)	Tube-PVCSD-30
2-stop PVC pump tubing, 1.02 mm ID, (white/white), 12 pc (3710034400)	Tube-PVCSD-40
2-stop PVC pump tubing, 1.30 mm ID, (gray/gray), 12 pc (3710034500)	Tube-PVCSD-51
2-stop PVC pump tubing, 1.65 mm ID, (blue/blue), 12 pc (3170034600)	Tube-PVCSD-65



Tube-PVCSD-30
2-stop PVC
Pump Tubing

2-Stop SolventFlex Peristaltic Pump Tubing

Description	Part Number
2-stop SolventFlex pump tubing, 0.76 mm ID, (black/black), 12 pc (3710034800)	Tube-SolFSD-30
2-stop SolventFlex pump tubing, 1.02 mm ID, (white/white), 12 pc (3710035000)	Tube-SolFSD-40
2-stop SolventFlex pump tubing, 1.30 mm ID, (gray/gray), 12 pc (3710035200)	Tube-SolFSD-50
2-stop SolventFlex pump tubing, 1.65 mm ID, (blue/blue), 12 pc (3710067900)	Tube-SolFSD-65



Tube-SolFSD-30
2-stop SolventFlex
Pump Tubing

2-Stop Viton Peristaltic Pump Tubing

Description	Part Number
2-stop Viton pump tubing, 0.51 mm ID, (orange/yellow), 12 pc (3710043500)	Tube-Viton-20



Tube-Viton-20
2-stop Viton Pump Tubing

Visit www.meinhard.com for additional tubing options.

Quartz Nebulizers

Description	Part Number
MEINHARD® SiQ+ Ultra high purity quartz nebulizer, low internal volume, nominal uptake 0.5 mL/min, 1 mL/min @ 50 psi, with FG PFA gas fitting and F2 sample uptake line. (See page 33 for more information)	SILQ-50-A0.5
MEINHARD® TQ+ quartz nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi. (See page 33 for more information)	TQP-50-A0.5
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi	TQ-30-A0.5
MEINHARD® Type A quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TQ-30-A1



SILQ-50-A0.5
SiQ+ Quartz
Nebulizer

Glass Nebulizers

Description	Part Number
MEINHARD® TR+ glass nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi	TRP-50-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi	TR-30-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TR-30-A1
MEINHARD® Type C glass nebulizer, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 2 mL/min, 1 L/min @ 30 psi (2010076500)	TR-30-C2
MEINHARD® Type K glass nebulizer, lapped, recessed (0.5 mm) capillary, high solids, nominal uptake 1 mL/min, 0.7 L/min @ 30 psi (2010081600)	TR-30-K1
MEINHARD® Type A glass nebulizer, lapped flush nozzle, low cost, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi	TR-50-A0.5
MEINHARD® Type K glass nebulizer, lapped, recessed (0.5 mm) capillary, high solids, nominal uptake 2 mL/min, 0.7 L/min @ 50 psi (2010069500)	TR-50-K2



TR-50-K2
Type K Glass
Nebulizer

PFA Nebulizer

Description	Part Number
MicroFlow PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400 µL/min capillary.	ME20400009



ME20400009
PFA-ST Nebulizer

Poly-Pro Nebulizer

Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400 µL/min capillary.	ME404083



ME404083
PolyPro-ST Nebulizer

PEEK Nebulizer

Description	Part Number
PEEK MiraMist nebulizer. Includes an argon line and sample capillary.	PMM4000



PMM4000
PEEK MiraMist Nebulizer

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers	PRL-02



PRL-02
Pearl Nebulizer Cleaner

See page 83 for more information.

pergo Argon Nebulizer Gas Humidifier

Description	Part Number
pergo argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01
pergo argon high solids accessory including MEINHARD® Type A Plus high performance nebulizer	PRG-01-MAPlus

See page 21 for more information.



PRG-01
pergo High Solids
Accessory

Spray Chamber

Description	Part Number
Quartz spray chamber, double pass (2010201000)	ML180031



ML180031
Double Pass Spray Chamber

Make-up IN-Port 2

Description	Part Number
Quartz Make-up IN-port 2 (2010100900)	ML180033



ML180033
Make-Up IN-Port 2

Quartz One-Piece Torches with Ball Joint

Description	Part Number
Quartz torch with ball joint, 2 placement pins (2010100700)	ML180030



ML180030
Quartz One-piece Torch
with Ball Joint

Quartz Torch, Demountable Injector

Description	Part Number
Quartz torch, demountable (2010079390)	ML180011

Universal Joint Extension

Description	Part Number
Quartz universal joint extension (2010100800)	ML180032

Analytik-Jena (Bruker) Aurora M90, 810-MS & 820-MS

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

Work Coil

Description	Part Number
ICPMS work coil assembly (0110749090)	MC-49090

Cone Cleaning Kit & Detergent

Description	Part Number
Cone Cleaning Kit includes: Course & Fine Alumina Powder, Diamond Abrasive Paste, Synthetic fiber, lint-free cloths, Wooden cotton swabs (qty 50), Foam Tipped ESD Swabs (qty 50) and Magnifier	MC-MNTKIT1
Citranox Detergent, contains acid ingredients for high-performance removal of metal oxides, salts and inorganic residues combined with full detergent capability. Used on soft metals. 1 gallon	CitranoxDetergent

MC-MNTKIT1
Cone Cleaning Kit



Sampling Cones

Description	Part Number
Ni Sampler (without CRI) 820-MS (9910115300)	MC-15300
Pt sampler (without CRI) 820-MS (9910117000)	MC-17000
Ni Sampler (with CRI purge) 820-MS Std (9910135900)	MC-35900
Pt sampler (with CRI purge) 820-MS (9910136000)	MC-36000



MC-15300
Nickel Sampler Cone

Skimmer Cones

Description	Part Number
Ni Skimmer (without CRI) C-Series, 820-MS (9910121000)	MC-21000
Pt Skimmer (without CRI) C-Series, 820-MS (9910121100)	MC-21100
Ni Skimmer (with CRI) 820-MS Std (9910121200)	MC-21200
Pt Skimmer (with CRI) 820-MS (9910121300)	MC-21300



MC-21000
Nickel Skimmer Cone

2-Stop PVC Peristaltic Pump Tubing

Description	Part Number
2-stop PVC pump tubing, 0.76 mm ID, (black/black), 12 pc	Tube-PVCSD-30
2-stop PVC pump tubing, 1.02 mm ID, (white/white), 12 pc	Tube-PVCSD-40
2-stop PVC pump tubing, 1.30 mm ID, (gray/gray), 12 pc	Tube-PVCSD-51
2-stop PVC pump tubing, 1.65 mm ID, (blue/blue), 12 pc	Tube-PVCSD-65
2-stop PVC pump tubing, 2.0 mm flared, 0.38 mm ID, (orange/green), 12 pc	Tube-PVCSD-15-F
2-stop PVC pump tubing, 2.0 mm flared, 0.51 mm ID, (orange/yellow), 12 pc	Tube-PVCSD-20-F



Tube-PVCSD-20-F
2-stop PVC
Pump Tubing

Visit www.meinhard.com for additional tubing options.

Argon Humidifier for High TDS Sample Analysis

The *pergo* improves performance of all MEINHARD® nebulizers for the routine analysis of brines, fusion digests and other high TDS samples.

A high-pressure membrane positioned inside a temperature-controlled water reservoir perfuses water vapor into the ICP-MS nebulizer gas stream. By increasing humidity in the argon nebulizer gas, the *pergo* prevents salt deposits at the nebulizer tip, improving short and long-term signal stability.

BENEFITS:

- Improved RSDs
- Improved short and long-term stability
- Improved detection limits
- Faster washout
- Ability to use high sensitivity nebulizers for high TDS samples
- Reduce long-term drift
- Extends the length of analytical runs

The unique *pergo* design offers many advantages over other types of argon humidifiers.

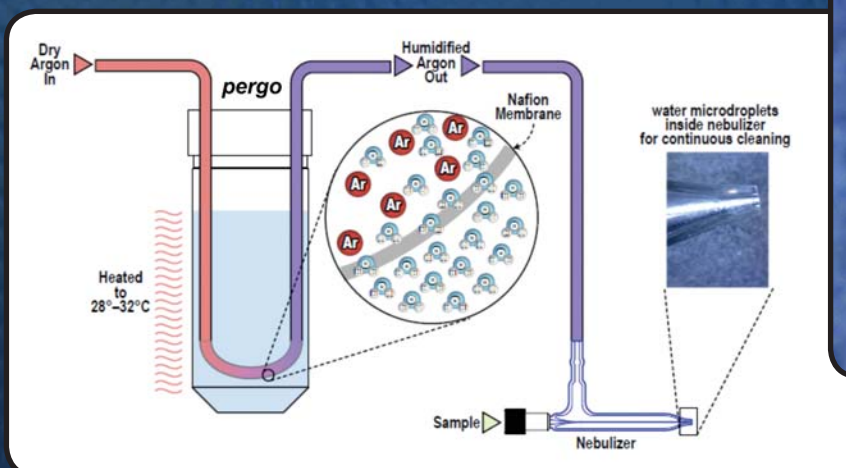
ADVANTAGES:

- Higher, more consistent humidity
- Superior long-term stability for high TDS samples
- Safe and easy to use
 - Atmospheric pressure water reservoir
- Optional USB communication for programmable humidity levels

PRG-01-MAPlus *pergo* high solids accessory with TR+ MEINHARD® nebulizer



TRP-50
TR+ Glass
Nebulizer



Water microdroplets continuously clean the inside of the nebulizer and prevent salt deposits.

Ar nebulizer gas is humidified using a tube-shaped membrane placed in a PFA water reservoir at atmospheric pressure. The water vapor condenses inside the nebulizer tip, preventing salt build-up.

GV-Micromass IsoProbe & Platform

Quartz Nebulizers

Description	Part Number
MEINHARD® SiQ+ Ultra high purity quartz nebulizer, low internal volume, nominal uptake 0.5 mL/min, 1 mL/min @ 50 psi, with FG PFA gas fitting and F2 sample uptake line (See page 33 for more information)	SILQ-50-A0.5
MEINHARD® TQ+ quartz nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi (See page 33 for more information)	TQP-50-A0.5
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi	TQ-30-A0.5
MEINHARD® Type A quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TQ-30-A1
MEINHARD® Type A quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 2 mL/min, 1 L/min @ 30 psi	TQ-30-A2



SILQ-50-A0.5
SiQ+ Quartz
Nebulizer

Glass Nebulizers

Description	Part Number
MEINHARD® TR+ glass nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi	TRP-50-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi	TR-30-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, low cost, high sensitivity, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TR-30-A1



TR-30-A1
Type A Glass
Nebulizer

PFA Nebulizer

Description	Part Number
MicroFlow PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME2040



ME2040
PFA-ST Nebulizer

Poly-Pro Nebulizer

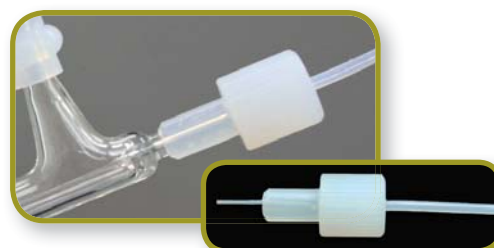
Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME4040



ME4040
PolyPro-ST Nebulizer

F0 Encapsulated Micro Tubing

Description	Part Number
F0 Encapsulated micro tubing for low uptake rates from 0.1 to 0.5 mL/min and the lowest internal volume of any nebulizer. Includes 0.25 mm i.d. ■ (green marker) 70 cm long micro capillary.	F0-25



F0-25
F0 Encapsulated Micro Tubing

F1 Detachable Capillary

Description	Part Number
F1 Detachable capillary for a wide range of applications. Includes 0.80 mm i.d. ■ (blue marker) 70 cm long capillary.	F1-80



F1-80
F1 Detachable Capillary

F2 Standard PFA Integrated Capillary

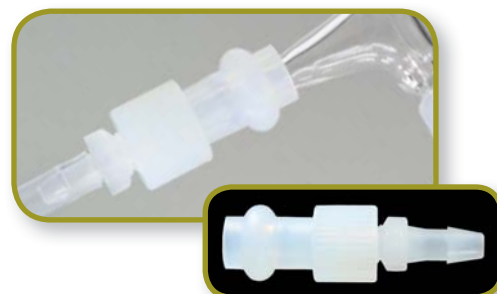
Description	Part Number
F2 Standard integrated capillary for self-aspiration or pumping. Includes 0.5 mm i.d. ■ (orange marker) 70 cm long capillary.	F2-50



F2-50
F2 Integrated Capillary

FG Gas Quick Connect for MEINHARD® Nebulizers

Description	Part Number
FG Gas Quick Connect for MEINHARD® Nebulizers with maria for both small bore and standard bore nebulizers.	FG



FG
FG Gas Quick Connect

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers (8100-2051)	PRL-02



PRL-02
Pearl Nebulizer Cleaner

See page 83 for more information.

pergo Argon Nebulizer Gas Humidifier

Description	Part Number
pergo argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01
pergo argon high solids accessory including MEINHARD® Type A Plus high performance nebulizer	PRG-01-MAPlus

See page 21 for more information.



PRG-01
pergo High Solids Accessory

GV-Micromass IsoProbe & Platform

Spray Chambers

Description	Part Number
Pyrex double pass spray chamber, radial (6368303)	ML165016
Quartz double pass spray chamber (6368308)	ML165015

Quartz Elbow

Description	Part Number
Quartz elbow, ball / socket (M695210BD1)	ML165020

PTFE Endcap

Description	Part Number
PTFE adapter (endcap) 6mm nebulizer to 35mm spray chamber	MM151030



MM151030
PTFE Endcap

Quartz One-Piece Torch with Ball Joint

Description	Part Number
Quartz torch, axial, fixed 1.5 mm injector (6368301)	ML165005



ML165005
Quartz One-piece Torch
with Ball Joint

Quartz Torch, Demountable Injector

Description	Part Number
Quartz torch, axial, demountable for ISIS (6366307)	ML165008

Semi-Demountable Torches

Description	Part Number
Semi-demountable o-ring-free torch with sapphire injector and spray chamber adapter	ME12021802
Semi-demountable o-ring-free torch without injector	ME12020002



ME12020002
O-ring-free Torch

Sapphire Injector, Semi-Demountable Torch

Description	Part Number
Sapphire injector for o-ring-free semi-demountable torch with spray chamber adapter	ME12030182

Quartz Bonnet

Description	Part Number
Quartz bonnet (M695531A)	ML165025

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

Cone Cleaning Kit & Detergent

Description	Part Number
Cone Cleaning Kit includes: Course & Fine Alumina Powder, Diamond Abrasive Paste, Synthetic fiber, lint-free cloths, Wooden cotton swabs (qty 50), Foam Tipped ESD Swabs (qty 50) and Maginifier	MC-MNTKIT1
Citranox Detergent, contains acid ingredients for high-performance removal of metal oxides, salts and inorganic residues combined with full detergent capability. Used on soft metals. 1 gallon	CitranoxDetergent



MC-MNTKIT1
Cone Cleaning Kit

Sampling Cones

Description	Part Number
Ni sampler cone (M749629CD3)	MC-29CD3
Al sampler cone (M749629CD2)	MC-29CD2
Ni sampler cone, Cu base (M695439BD1)	MC-39BD1
Ni sampler, enhanced low-mass performance (M699477CD3)	MC-77CD3
Al sampler, enhanced low-mass performance (M699477CD2)	MC-77CD2
Al sampler cone (M695439BD2)	MC-39BD2
Pt Sampler Cone, copper base (M695439BD1)	MC-39BD1
Copper cartridge (M749630BD1)	MC-30BD1



MC-39BD1
Nickel Sampler Cone

Skimmer Cones

Description	Part Number
Ni Skimmer Cone (M695440BD1)	MC-40BD1
Al Skimmer Cone (M695440BD2)	MC-40BD2
Ni Skimmer, enhanced low-mass performance (M7001116CD3)	MC-16CD3
Al Skimmer, enhanced low-mass performance (M7001116CD2)	MC-16CD2
Pt skimmer cone (M6955091)	MC-55091

3-Stop PVC Peristaltic Pump Tubing

Description	Part Number
3-stop PVC pump tubing, 0.19 mm ID, (orange/red/orange), 12 pc	Tube-PVCSD-075-3
3-stop PVC pump tubing, 1.02 mm ID, (white/white/white), 12 pc	Tube-PVCSD-40-3
3-stop PVC pump tubing, flared, 0.19 mm ID, (orange/red/orange), 12 pc	Tube-PVCSD-075-3-F



Tube-PVCSD-075-3
3-stop PVC
Pump Tubing

2-Stop PVC Peristaltic Pump Tubing

Description	Part Number
2-stop PVC pump tubing, flared, 0.13 mm ID, (orange/black), 12 pc	Tube-PVCSD-051-F
2-stop PVC pump tubing, flared, 0.19 mm ID, (orange/red), 12 pc	Tube-PVCSD-075-F
2-stop PVC pump tubing, flared, 0.27 mm ID, (orange/blue), 12 pc	Tube-PVCSD-10-F
2-stop PVC pump tubing, flared, 0.51 mm ID, (orange/yellow), 12 pc	Tube-PVCSD-20-F
2-stop PVC pump tubing, flared, 1.30 mm ID, (gray/gray), 12 pc	Tube-PVCSD-51-F



Tube-PVCSD-075-F
2-stop PVC
Pump Tubing

Visit www.meinhard.com for additional tubing options.

Glass Nebulizers

Description	Part Number
MEINHARD® Type C glass nebulizer, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 2 mL/min, 1 L/min @ 30 psi (47929002)	TR-30-C2
MEINHARD® Type C glass nebulizer, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 3 mL/min, 1 L/min @ 30 psi (47929003)	TR-30-C3
MEINHARD® Type K glass nebulizer, lapped flush nozzle, recessed (0.5 mm) capillary, high solids, nominal uptake 3 mL/min, 1 L/min @ 30 psi (47929005)	TR-30-K3
MEINHARD® Type C glass nebulizer, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi (47929004)	TR-50-C0.5
MEINHARD® Type C glass nebulizer, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 1 mL/min, 1 L/min @ 50 psi (47929001)	TR-50-C1
MEINHARD® Type C glass nebulizer, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 3 mL/min, 1 L/min @ 50 psi (47929006)	TR-50-C3



TR-50-C1
Type C Glass
Nebulizer

PFA Nebulizer

Description	Part Number
MicroFlow PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME2040



ME2040
PFA-ST Nebulizer

Poly-Pro Nebulizer

Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME4040



ME4040
PolyPro-ST Nebulizer

PEEK Nebulizer

Description	Part Number
PEEK MiraMist nebulizer. Includes an argon line and sample capillary.	PMM4000



PMM4000
PEEK MiraMist Nebulizer

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers	PRL-02



PRL-02
Pearl Nebulizer Cleaner

See page 83 for more information.

Cyclonic Spray Chambers

Description	Part Number
Pyrex cyclonic spray chamber, top socket, 4 mm drain (31030809)	ML116055
Pyrex cyclonic spray chamber with Easy-Seal threaded nebulizer inlet and PFA cap (47929056)	ML116055ES
Cyclonic spray chamber, no baffle (31-031-279)	2015-015NB
Pyrex cyclonic spray chamber, 50 mL, top socket, ground glass tapered (14/20) drain	ML116056
Pyrex cyclonic spray chamber with water jacket for cooling, top socket, 4 mm drain (47929046)	ML116057
Pyrex cyclonic spray chamber, 20 mL, top socket, 4 mm drain (47929049)	ML116060
Pyrex cyclonic spray chamber, axial, taper to top socket, o-ring inlet, 4 mm drain (31031479)	ML116062



ML116055
Cyclonic Spray Chamber

Spray Chamber

Description	Part Number
Pyrex Scott Type spray chamber with ground-glass joint (31026996)	ML116054



ML116054
Pyrex Spray Chamber

Quartz Outer Torch Tubes

Description	Part Number
Quartz demountable outer torch tube with ground step, 71 mm long	ME19529001
Quartz demountable outer torch tube, radial, 71 mm long (31023722)	ML116050
Quartz demountable outer torch tube, radial, 82.5 mm long	ML116051
Quartz demountable outer torch tube, axial, Panorama 105 mm long (31031099)	ML116070



ME19529001
Quartz Outer Torch Tube

Quartz Inner Torch Tubes

Description	Part Number
Quartz demountable inner torch tube (31023723)	ML116052
Quartz demountable outer torch tube, radial, 71 mm long (31023722)	ML116050



ML116052
Quartz Inner Torch Tube

Torch Assembly

Description	Part Number
Fully demountable torch assembly (21-356-110)	MP16040



MP16040
Torch Assembly

Quartz One-Piece Torch

Description	Part Number
Quartz torch, radial, fixed 1.5 mm injector (49010100)	ML135005



ML135005
Quartz One-Piece
Torch

Alumina Injector

Description	Part Number
Alumina injector, 2.9 mm (31021589)	MA1589



MA1589
Alumina Injector

Quartz Injector

Description	Part Number
Quartz injector, 2.0 mm	ML116059



ML116059
Quartz Injector

Sheath Gas Tube

Description	Part Number
Pyrex sheath gas tube (21356040)	ML116063



ML116063
Sheath Gas Tube

Centering Ring

Description	Part Number
Centering ring (31023724)	ML116053



ML116053
Centering Ring

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

Viton O-Rings	
Description	Part Number
Viton o-rings, pack of 4 (46702525)	MM116200

MM116200
Viton O-Rings



O-Ring Kit	
Description	Part Number
O-ring kit, demountable torch (9 o-rings)	MM116210

MM116210
O-Ring Kit



PTFE Endcap	
Description	Part Number
PTFE adapter (endcap) 6mm nebulizer to 35mm spray chamber (31-023-549)	MM151030

MM151030
PTFE Endcap



pergo Argon Nebulizer Gas Humidifier	
Description	Part Number
pergo argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01
pergo argon high solids accessory including MEINHARD® Type A Plus high performance nebulizer.	PRG-01-MAPlus

See page 21 for more information.



PRG-01
pergo High Solids Accessory

2-Stop PVC Peristaltic Pump Tubing	
Description	Part Number
2-stop PVC pump tubing, 1.14 mm ID, (red/red), 12 pc	Tube-PVCSD-45
2-stop PVC pump tubing, flared, 0.76 mm ID, (black/black), 12 pc	Tube-PVCSD-30-F

Tube-PVCSD-30-F
2-stop PVC
Pump Tubing



Visit www.meinhard.com for additional tubing options.

Quartz Nebulizers

Description	Part Number
MEINHARD® SiIQ+ Ultra high purity quartz nebulizer, low internal volume, nominal uptake 0.5 mL/min, 1 mL/min @ 50 psi, with FG PFA gas fitting and F2 sample uptake line. (See page 33 for more information)	SILQ-50-A0.5
MEINHARD® TQ+ quartz nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi. (See page 33 for more information)	TQP-50-A0.5
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi	TQ-30-A0.5
MEINHARD® Type A quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TQ-30-A1



TQP-50-A0.5
TQ+ Quartz
Nebulizer

Glass Nebulizers

Description	Part Number
MEINHARD® TR+ glass nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi	TRP-50-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, high sensitivity, low cost, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi	TR-30-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TR-30-A1



TR-30-A1
Type A Glass
Nebulizer

PFA Nebulizer

Description	Part Number
MicroFlow PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µL/min capillary.	ME20400009



ME20400009
PFA-ST Nebulizer

Poly-Pro Nebulizer

Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µL/min capillary.	ME4040



ME4040
PolyPro-ST Nebulizer

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers	PRL-02

(See page 83 for more information)



PRL-02
Pearl Nebulizer Cleaner

PC³ Peltier Cooler

Description	Part Number
PC ³ Peltier cooler. Includes a quartz cyclonic spray chamber.	ME41821118



ME41821118
PC³ Peltier Cooler

PFA Cyclonic Spray Chamber

Description	Part Number
Baffled, PFA cyclonic spray chamber for Nu AttoM, connects to ESI injector for Nu AttoM	ME3193311121

Quartz Torch Bonnet

Description	Part Number
Quartz bonnet for one-piece torches (319-311)	ML170025



ML170025
Quartz Torch Bonnet

Quartz One-Piece Torches with Ball Joint

Description	Part Number
Quartz torch, axial, fixed 1.5 mm injector (319-308)	ML170005
Quartz torch, axial, fixed 1.5 mm injector (rebuild of ML170005)	ML170005R
Quartz torch, axial, fixed 1.5 mm injector (3201192)	ML145005



ML170005
Quartz One-Piece Torch

Nu AttoM / Plasma II Demountable Quartz Torch

Description	Part Number
O-Ring Free Demountable Precision Quartz Torch for Nu AttoM / Nu Plasma II	ME160210093



ME160210093
Quartz Torch

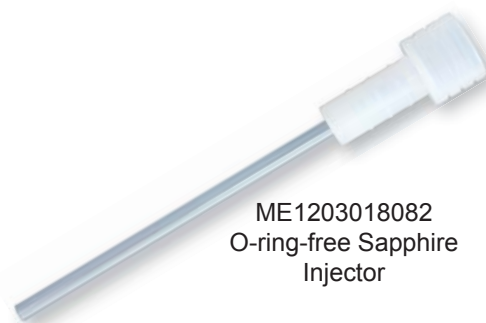
Nu AttoM / Plasma II Demountable Injectors

Description	Part Number
1.5 mm i.d. Quartz injector for Nu AttoM, Nu Plasma II, o-ring free	ME1233015093
2mm i.d. Quartz injector for Nu AttoM, Nu Plasma II, o-ring free	ME1233020093
1.0 mm i.d. Sapphire injector for Nu AttoM, Nu Plasma II o-ring free	ME1203010093
1.5mm i.d. sapphire injector for Nu AttoM, Nu Plasma II, o-ring free	ME1203015093
1.8mm i.d. sapphire injector for Nu AttoM, Nu Plasma II, o-ring free	ME1203018093
1 mm ID Platinum injector for Nu AttoM, Nu Plasma II o-ring free	ME1213010093
1.5 mm ID Platinum injector for Nu AttoM, Nu Plasma II o-ring free	ME1213015093
2mm ID Platinum injector for Nu AttoM, Nu Plasma II o-ring free	ME1213020093

Use all above injectors with an ME160210093 precision quartz torch and ESI spray chamber.

O-Ring-Free Sapphire Injectors, Demountable

Description	Part Number
O-ring-free sapphire injector, HF resistant, 1.0 mm	ME1203010082
O-ring-free sapphire injector, HF resistant, 1.8 mm	ME1203018082



ME1203018082
O-ring-free Sapphire
Injector

O-Ring-Free Platinum Injectors, Demountable

Description	Part Number
O-ring-free platinum injector, HF resistant, 1.8 mm	ME1213018082
O-ring-free platinum injector, HF resistant, 2 mm	ME1213020082

Magnetic Sector Multipliers

Description	Part Number
ETP Magnetic Sector Multiplier, Nu Plasma	MC-AF143
ETP Magnetic Sector Multiplier, Nu Plasma AttoM (with filter)	MC-AF144

Nu-Instruments Plasma MC-ICPMS

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

RS12/5 Socket to Torch Base PFA Adapter

Description	Part Number
PFA adapter from RS12/5 socket to ESI o-ring-free torch base	ME5509



ME5509
PFA Adapter

Spray Chamber to RS12/5 Torch PFA Adapter

Description	Part Number
PFA adapter from ESI spray chamber to RS12/5 torch base	ME5510



ME5510
PFA Adapter

Sampler Cones

Description	Part Number
Ni sampler Cone, Ni base (Version A) (319-285)	MC-19285
Ni sampler Cone, Ni base (Version B) (319-541)	MC-19541
Gasket, Graphite for sampler (pack of 3) (3004382)	MC-04382
Nickel sampler cone, original style (319-285)	MC-19285
Nickel sampler cone, WA6, original style (319-497)	MC-19497
Nickel sampler cone, version B with 0.9 mm orifice (319-541)	MC-19541
Nickel sampler cone, version B (319-540)	MC-19540



MC-19541
Ni Sampler Cone

Skimmer Cones

Description	Part Number
Ni skimmer Cone, Ni base (Original) (319-284)	MC-19284
Ni skimmer Cone, Ni base (Version A) (319-497)	MC-19497
Ni skimmer Cone, Ni base (Version B) (319-540)	MC-19540



MC-19540
Ni Skimmer Cone

Cone Cleaning Kit & Detergent

Description	Part Number
Cone Cleaning Kit includes: Course & Fine Alumina Powder, Diamond Abrasive Paste, Synthetic fiber, lint-free cloths, Wooden cotton swabs (qty 50), Foam Tipped ESD Swabs (qty 50) and Magnifier	MC-MNTKIT1
Citranox Detergent, contains acid ingredients for high-performance removal of metal oxides, salts and inorganic residues combined with full detergent capability. Used on soft metals. 1 gallon	CitranoxDetergent



MC-MNTKIT1
Cone Cleaning Kit

2-Stop PVC Peristaltic Pump Tubing

Description	Part Number
2-stop PVC pump tubing, 1.30 mm ID, (gray/gray), 12 pc	Tube-PVCSD-51
2-stop PVC pump tubing, flared, 0.13 mm ID, (orange/black), 12 pc	Tube-PVCSD-051-F
2-stop PVC pump tubing, flared, 0.51 mm ID, (orange/yellow), 12 pc	Tube-PVCSD-20-F



Tube-PVCSD-20-F
2-stop PVC
Pump Tubing

Visit www.meinhard.com for additional tubing options.

MEINHARD® SilQ+

High Purity Quartz ICPMS Nebulizer

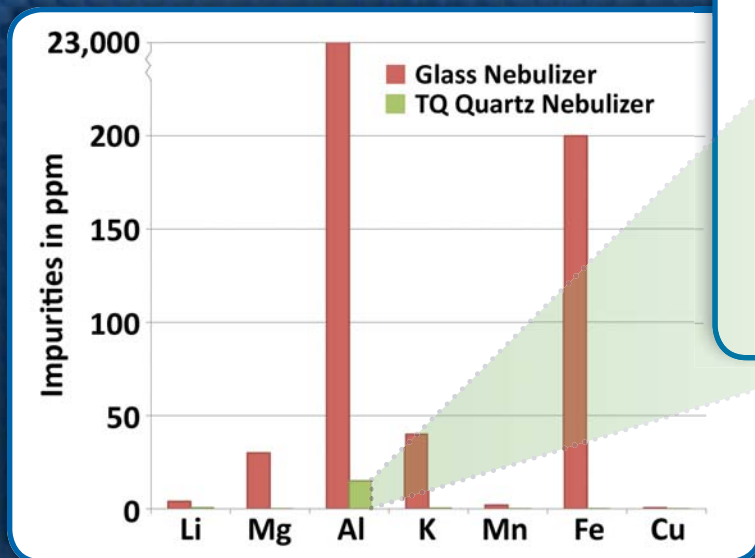
The SilQ+ nebulizer by MEINHARD® is perfect for applications requiring high sensitivity. Made from the highest purity synthetic quartz, the SilQ+ nebulizer has low levels of trace elemental impurities, reducing the risk of sample contamination. SilQ+ nebulizers improve wash-out rates and generate low, stable blanks that can enhance ICPMS detection limits.

SilQ+ comes equipped with PFA FitKit gas and sample quick connect fittings that eliminate contaminants from conventional connectors commonly used on other nebulizers. The fittings can be rapidly attached and removed. The gas quick connect creates a snug seal around the maria on the SilQ+ sidearm.

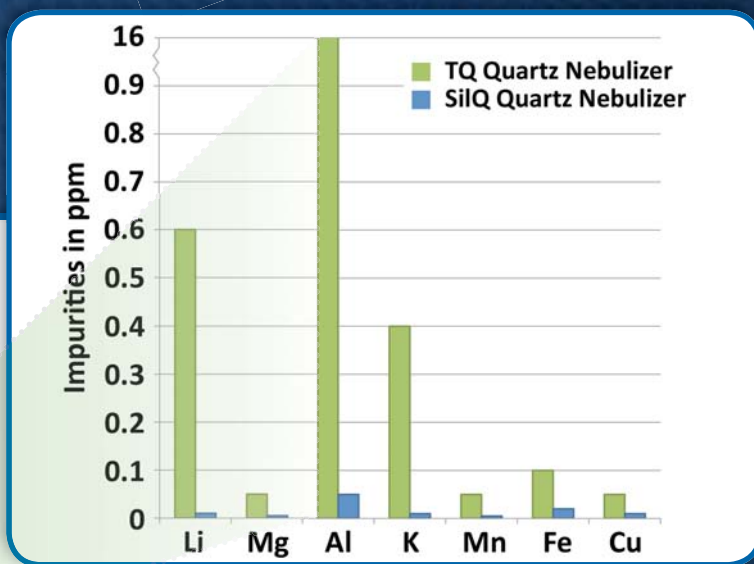
Each nebulizer is manufactured and tested to exacting specifications. The standard SilQ+ nebulizer requires 50 psi for 1 L/min of argon carrier and 0.5 mL/min solution uptake. Other versions are available.



MEINHARD® SilQ+ high purity nebulizer with PFA FitKit



Comparison of metal impurity in Glass and TQ+ Quartz nebulizers. Glass nebulizers have high levels of impurity for elements such as Al, Fe, K, Mg.



Comparison of metal impurity in SilQ+ and TQ+ Quartz nebulizers. SilQ+ impurities on average are 60 times lower than standard quartz nebulizers. Aluminum impurities in SilQ+ nebulizers are more than 400,000 times lower than glass.

Quartz Nebulizers

Description	Part Number
MEINHARD® SilQ+ Ultra high purity quartz nebulizer, low internal volume, nominal uptake 0.5 mL/min, 1 mL/min @ 50 psi, with FG PFA gas fitting and F2 sample uptake line (See page 33 for more information)	SILQ-50-A0.5
MEINHARD® TQ+ quartz nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi (N8142098) (See page 31 for more information)	TQP-30-A0.5
MEINHARD® TQ+ quartz nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi (N8122461) (See page 33 for more information)	TQP-50-A0.5
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi	TQ-30-A0.5
MEINHARD® Type A quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TQ-30-A1
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 3 mL/min, 1 L/min @ 30 psi	TQ-30-A3
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi (N8145011)	TQ-50-A0.5



SILQ-50-A0.5
SilQ+ Quartz
Nebulizer

Glass Nebulizers

Description	Part Number
MEINHARD® TR+ glass nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi	TRP-50-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi	TR-30-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TR-30-A1
MEINHARD® Type C glass nebulizer, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 1 mL/min, 1 L/min @ 30 psi (N8102011)	TR-30-C1
MEINHARD® Type K glass nebulizer, lapped flush nozzle, recessed (0.5 mm) capillary, high solids, nominal uptake 1 mL/min, 0.7 L/min @ 30 psi	TR-30-K1
MEINHARD® Type C glass nebulizer, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi (N8145012)	TR-50-C0.5



TR-30-C1
Type C Glass
Nebulizer

PFA Nebulizers with Integrated Capillaries

Description	Part Number
PFA-20 MicroFlow nebulizer, HF resistant, 20 µL/min uptake	ME20200002
PFA-100 MicroFlow nebulizer, HF resistant, 100 µL/min uptake	ME20020002
High temperature APEX-100 PFA Nebulizer ~90-150 µL/min self-aspiration capillary. (N0777376)	ME20027000
ST3 MicroFlow PFA nebulizer with external 1/4-28 threaded connector for NexION, Includes two capillaries, 100µL/min. and 400µL/min. (N8145101)	MEST384



ME20200002
PFA-20 Nebulizer

PFA-ST Nebulizer

Description	Part Number
PFA-ST MicroFlow low pressure nebulizer for PE Elan/NexION ICPMS. Includes two capillaries (100µL/min. & 400µL/min.)	ME204054



ME204054
PFA-ST Nebulizer

Poly-Pro Nebulizer

Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME404054
Apex-ST PFA MicroFlow nebulizer with external 1/4-28 threaded connector, includes 0.25mm ID manual sampling probe (ME50462250080) and 0.5mm ID sample capillary for ST nebulizer (ME2041) (N0777375)	ME20407000



ME404054
PolyPro-ST Nebulizer

PEEK Nebulizer

Description	Part Number
PEEK MiraMist nebulizer. Includes an argon line and sample capillary.	PMM4000



PMM4000
PEEK MiraMist Nebulizer

Solution Inlet Adapter

Description	Part Number
Solution inlet adapter for 4 mm standard liquid input nebulizers, includes union, ferrules, and 5' of 1/16" o.d. Tefzel sample tubing and #160 (WE024372)	Fit Kit 3



Fit Kit 3
Solution Inlet Adapter

Nebulizer Gas Quick Connects

Description	Part Number
Gas Quick Connect for MEINHARD® Nebulizers with PFA-Press Fit for 4 mm tubing. Forms a tight seal over the maria on the sidearm of the nebulizer.	F4
Nexion/ELAN ICPMS Nebulizer Gas Quick Connect with PFA-Press Fit for 4 mm tubing. Connects to the instrument.	F4-54



F4
Nebulizer Gas Quick Connect

(See page 102 for more information)

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers	PRL-02



PRL-02
Pearl Nebulizer Cleaner

(See page 83 for more information)

Cyclonic Spray Chambers

Description	Part Number
Quartz cyclonic spray chamber for ball joint injector (WE025221)	ML140020
PE ELAN quartz cyclonic spray chamber for ball joint injector with Easy-Seal inlet (WE025221)	ML140020ES
PE NexION quartz cyclonic spray chamber for ball joint injector with Easy-Seal inlet (N8145013)	ML140025ESQ
PE NexION Pyrex cyclonic spray chamber for ball joint injector with Easy-Seal inlet (N8145014)	ML140026ESP



ML140025ESQ
Cyclonic Spray Chamber

Quartz Torches, Demountable Injector

Description	Part Number
ESI precision o-ring-free quartz torch, demountable, axial (N8145106)	ME11021000
Quartz torch, demountable (N8122006)	ML140010
Quartz torch, demountable, high efficiency (W1008384)	ML140012



ME11021000
Quartz Torch

Quartz One-Piece Torch with Ball Joint

Description	Part Number
Quartz torch, fixed injector, long tube (N8102001)	ML140009



Platinum Injectors

Description	Part Number
Platinum injector, 1 mm, cassette mount. (N8145107)	ME11133100
Platinum injector, 2 mm, cassette mount. (N8122412)	ME11133200



Quartz Injectors for Standard Torch

Description	Part Number
Quartz injector for standard torch (ML132033), 1.2 mm, bayonet mount. (N0681631)	ME132033
Quartz injector for standard torch (ML132035), 2 mm, bayonet mount. (N8125029)	ME132035



Platinum Injector for O-Ring-Free Torch

Description	Part Number
Platinum injector for o-ring-free torch (ME11242150), 2 mm, cassette mount (N8145111)	ME11132200



Alumina Injectors

Description	Part Number
Alumina injector, 0.85 mm (N8126039)	MA2186
Alumina injector, 1.5 mm (N8126040)	MA2185
Alumina injector, 2 mm (N8126041)	MA2184



Quartz Injectors with Ball Joint

Description	Part Number
Quartz injector with ball joint, 0.85 mm, support ring (WE027030)	ML140031
Quartz injector with ball joint, 1.5 mm, support ring (WE027005)	ML140032
Quartz injector with ball joint, 2 mm, support ring (WE023948)	ML140030



Quartz Injectors for O-Ring-Free Torch

Description	Part Number
Quartz injector for o-ring-free torch, 1.5 mm, cassette mount (N8145115)	ME11242150
Quartz injector for o-ring-free torch, 2.5 mm, cassette mount (N8145117)	ME11242250

Copper Load Coils

Description	Part Number
Copper load coil for PerkinElmer Elan 6100DRC, DRC II, DRC-e & NexION (WE021816)	MC-21816
Copper load coil for Perkin Elmer Elan 500, 5000, 6000, 9001 (WE012411)	MC-12411



ELAN Bayonet HF Resistant Sample Intro Kits

Description	Part Number
Complete HF-resistant sample introduction kit. Includes two PFA-100 Nebulizers, PureCap PFA endcap with additional gas port, 47 mm PFA spray chamber, 1.8 mm bayonet sapphire injector and quartz torch. (N8122362)	ME2170047219
Complete high purity sample introduction kit. Includes two PFA-100 Nebulizers, PureCap PFA endcap with additional gas port, 47 mm PFA spray chamber, 2.0 mm bayonet platinum injector and quartz torch. (N8122363)	ME2171047219



ME2170047219
HF Resistant Sample Intro Kit

ELAN Cassette HF Resistant Sample Intro Kits

Description	Part Number
Complete HF-resistant sample introduction kit. Includes two PFA-100 Nebulizers, PureCap PFA endcap with additional gas port, 47 mm PFA spray chamber, 1.8 mm cassette sapphire injector and quartz torch. (N8122414)	ME21709019
Complete high purity sample introduction kit. Includes two PFA-100 Nebulizers, PureCap PFA endcap with additional gas port, 47 mm PFA spray chamber, 2.0 mm cassette platinum injector and quartz torch. (N8122415)	ME21419019



ME21419019
HF Resistant Sample Intro Kit

NexION HF Resistant Sample Intro Kits

Description	Part Number
Complete HF-resistant sample introduction kit. Includes a PFA-ST nebulizer, PFA PureCap endcap with additional gas port, 47 mm PFA spray chamber, 1.8 mm sapphire injector, platinum shield disc and quartz torch. (N8142002)	ME2170047219
Complete high purity sample introduction kit. Includes two PFA-100 MicroFlow nebulizers, PFA PureCap endcap with additional gas port, 47 mm PFA spray chamber, 2.0 mm platinum injector, platinum shield disc and quartz torch. (N8142001)	ME2171047219



ME2170047219
HF Resistant Sample Intro Kit

Cone Cleaning Kit & Detergent

Description	Part Number
Cone Cleaning Kit includes: Course & Fine Alumina Powder, Diamond Abrasive Paste, Synthetic fiber, lint-free cloths, Wooden cotton swabs (qty 50), Foam Tipped ESD Swabs (qty 50) and Maginifier	MC-MNTKIT1
Citranox Detergent, contains acid ingredients for high-performance removal of metal oxides, salts and inorganic residues combined with full detergent capability. Used on soft metals. 1 gallon	CitranoxDetergent



MC-MNTKIT1
Cone Cleaning Kit

Sampling Cones

Description	Part Number
Ni sampler Cone, Ni base (W1033612)	MC-33612
Ni sampler Cone, Ni base (WE013087)	MC-13807
Ni sampler cone, Ni base (WE021140)	MC-21140
Pt sampler cone, Ni base (W1033614)	MC-33614
Pt sampler cone, Ni base (N8122025)	MC-22025
Pt sampler cone, Ni base (WE027802)	MC-27802
O-ring, brown Viton for sampler (qty5) (N8120511)	MC-20511
Gaskets, Aluminum for sampler (qty 3) (W1040148)	MC-40148



MC-33612
Ni Sampler Cone

Skimmer Cones

Description	Part Number
Al hyper skimmer cone, Al base (W1033995)	MC-33995
Ni skimmer cone, Ni base (W1026356)	MC-26356
Ni skimmer cone, Ni base (N8122000)	MC-22000
Ni skimmer cone, Ni base (WE021137)	MC-21137
Pt skimmer cone, Ni base (W1026907)	MC-26907
Pt skimmer cone, Ni base (N8122035)	MC-22035
Pt skimmer cone, Ni base (WE027803)	MC-27803
O-rings, black Viton for skimmer (qty 5) (N8120512)	MC-20512
O-rings, Viton for hyper skimmer (qty 2) (09902123)	MC-02123
Screws, steel for hyper skimmer (qty 2) (09919737)	MC-19737
Insertion / removal tool (WE17142)	MC-17142



MC-33995
Al Hyper Skimmer Cone

Autosampler Probes

Description	Part Number
0.8mm ID ESI SC-DX FAST autosampler probe, carbon fiber support, 150 cm	ME50373755150
1.0mm ID ESI SC-DX FAST autosampler probe, carbon fiber support, 150 cm	ME50373995150
0.25mm ID ESI SC-DX autosampler probe, carbon fiber support, 150 cm	ME50373255150
0.5mm ID ESI SC-DX autosampler probe, carbon fiber support, 150 cm	ME50373505150
0.25mm ID ESI Non-DX autosampler probe, carbon fiber support, 80 cm	ME50373250080
0.5mm ID ESI Non-DX autosampler probe, carbon fiber support, 80 cm	ME50373500080
0.25mm ID PE S10 autosampler probe, carbon fiber support, 100 cm	ME50379250100
0.5mm ID PE S10 autosampler probe, carbon fiber support, 100 cm	ME50379500100



ME50373505150
Autosampler Probe

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

Internal Standard Addition Tee for ESI ST Nebulizers

Description	Part Number
0.25 mm ID internal standard addition tee for ESI ST nebulizers, 14 cm	ME03171250
0.5 mm ID internal standard addition tee for ESI ST nebulizers, 14 cm. Recommended for flow rates > 0.3 mL/min.	ME03171500



ME03171500
Internal Standard Addition Tee

Electron Multipliers

Description	Part Number
ETP Electron Multiplier, PE Elan 6000 (N812500)	MC-AF210
ETP Electron Multiplier, PE NexION (N8145000)	MC-45000
ETP Electron Multiplier, PE Elan 6X00/9000/DRC (N8125050)	MC-AF217



MC-AF210
ETP Electron Multiplier

Pipette Tips

Description	Part Number
100 µL PFA PureTip pipette tips, pre-cleaned, pack of 10 (N0777394)	ME70000101
1000 µL PFA PureTip pipette tips, pre-cleaned, pack of 10 (N0777395)	ME70001001



ME70000101 & ME70001001
Pipette Tips

2-Stop PVC Peristaltic Pump Tubing

Description	Part Number
2-stop PVC pump tubing, 0.76 mm ID, (black/black), 12 pc (N0680375)	Tube-PVCSD-30
2-stop PVC pump tubing, 0.95 mm ID, (white/black), 12 pc	Tube-PVCSD-37
2-stop PVC pump tubing, 1.14 mm ID, (red/red), 12 pc (N0680375)	Tube-PVCSD-45
2-stop PVC pump tubing, flared, 0.76 mm ID, (black/black), 12 pc (00473550)	Tube-PVCSD-30-F



Tube-PVCSD-30
2-stop PVC
Pump Tubing

2-Stop SolventFlex Peristaltic Pump Tubing

Description	Part Number
2-stop SolventFlex pump tubing, 0.76 mm ID, (black/black), 12 pc (N0680376)	Tube-SolFSD-30
2-stop SolventFlex pump tubing, 1.14 mm ID, (red/red), 12 pc (N0680376)	Tube-SolFSD-45
2-stop SolventFlex pump tubing, flared, 0.76 mm ID, (black/black), 12 pc (N8122012)	Tube-SolFSD-30-F



Tube-SolFSD-30
2-stop SolventFlex
Pump Tubing

Visit www.meinhard.com for additional tubing options.

Quartz Nebulizers

Description	Part Number
MEINHARD® SiQ+ Ultra high purity quartz nebulizer, low internal volume, nominal uptake 0.5 mL/min, 1 mL/min @ 50 psi, with FG PFA gas fitting and F2 sample uptake line. (See page 33 for more information)	SILQ-50-A0.5
MEINHARD® TQ+ quartz nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi (N8122461) (See page 33 for more information)	TQP-50-A0.5
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi (WE024371)	TQ-30-A3



SILQ-50-A0.5
SiQ+ Quartz
Nebulizer

Glass Nebulizers

Description	Part Number
MEINHARD® TR+ glass nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi	TRP-50-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, low cost, high sensitivity, nominal uptake 3 mL/min, 1 L/min @ 30 psi (00472020)	TR-30-A3
MEINHARD® Type C glass nebulizer, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 3 mL/min, 1 L/min @ 30 psi (N8102011)	TR-30-C3
MEINHARD® Type K glass nebulizer, lapped flush nozzle, recessed (0.5 mm) capillary, high solids, nominal uptake 3 mL/min, 0.7 L/min @ 30 psi (N0681574)	TR-30-K3
MEINHARD® Type C glass nebulizer, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi (N8145012)	TR-50-C0.5
MEINHARD® Type C glass nebulizer, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 1 mL/min, 1 L/min @ 50 psi (0047-2022)	TR-50-C1
MEINHARD® Type K glass nebulizer, lapped flush nozzle, recessed (0.5 mm) capillary, high solids, nominal uptake 1 mL/min, 1 L/min @ 50 psi (N0777707)	TR-50-K1



TR-30-A3
Type A Glass
Nebulizer

PFA Nebulizer

Description	Part Number
MicroFlow PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary. (N0777049)	ME204057
MicroFlow PFA-ST3 PFA nebulizer with external 1/4-28 threaded connector, includes two capillaries (100µl/min & 400µl/min) (N0777676)	MEST357



ME204057
PFA-ST Nebulizer

Poly-Pro Nebulizer

Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary. (N0777219)	ME404057



ME404057
PolyPro-ST Nebulizer

PEEK Nebulizer

Description	Part Number
Burgener PEEK MiraMist parallel-path nebulizer. Includes an argon line and sample capillary. (N0775330)	PMM4000



PMM4000
PEEK MiraMist Nebulizer

Solution Inlet Adapter

Description	Part Number
Solution inlet adapter for 4 mm standard liquid input nebulizers, includes union, ferrules, and 5' of 1/16" o.d. Tefzel sample tubing and #160 (WE024372)	Fit Kit 3



Fit Kit 3
Solution Inlet Adapter

F0 Encapsulated Micro Tubing

Description	Part Number
F0 Encapsulated micro tubing for low uptake rates from 0.1 to 0.5 mL/min and the lowest internal volume of any nebulizer. Includes 0.25 mm i.d. ■ (green marker) 70 cm long micro capillary.	F0-25



F0-25
F0 Encapsulated Micro Tubing

F1 Detachable Capillary

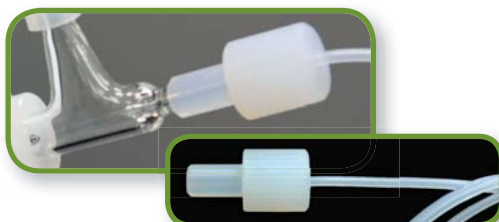
Description	Part Number
F1 Detachable capillary for a wide range of applications. Includes 0.80 mm i.d. ■ (blue marker) 70 cm long capillary.	F1-80



F1-80
F1 Detachable Capillary

F2 Standard PFA Integrated Capillary

Description	Part Number
F2 Standard integrated capillary for self-aspiration or pumping. Includes 0.5 mm i.d. ■ (orange marker) 70 cm long capillary.	F2-50



F2-50
F2 Integrated Capillary

F5 Standard PTFE Integrated Capillary

Description	Part Number
F5 integrated capillary for standard (4 mm inlet) nebulizers. Includes 0.5 mm i.d. ■ (orange marker) 70 cm PFA capillary.	F2-50



F5-50
F5 Integrated Capillary

FG Gas Quick Connect for MEINHARD® Nebulizers

Description	Part Number
FG Gas Quick Connect for MEINHARD® Nebulizers with maria for both small bore and standard bore nebulizers.	FG



FG
FG Gas Quick Connect

Nebulizer Gas Quick Connects

Description	Part Number
Gas Quick Connect for MEINHARD® Nebulizers with PFA-Press Fit for 4 mm tubing. Forms a tight seal over the maria on the sidearm of the nebulizer.	F4
Optima Nebulizer Gas Quick Connect with PFA-Press Fit for 4 mm tubing. Connects to the instrument.	F4-57



F4
Nebulizer Gas Quick Connect

(See page 102 for more information)

PerkinElmer Optima 2x00DV - 8x00DV

PFA Nebulizers with Integrated Capillaries

Description	Part Number
PFA-20 MicroFlow Nebulizer with integrated capillary, 20µL/min measured self-aspiration rate (@1L/m Ar)	ME2020
PFA-50 MicroFlow Nebulizer with integrated capillary, 50µL/min measured self-aspiration rate (@1L/m Ar)	ME2000
PFA-100 MicroFlow Nebulizer with integrated capillary, 100µL/min measured self-aspiration rate (@1L/m Ar)	ME2002
PFA-200 MicroFlow Nebulizer with integrated capillary, 200µL/min measured self-aspiration rate (@1L/m Ar)	ME2003
PFA-400 MicroFlow Nebulizer with integrated capillary, 400µL/min measured self-aspiration rate (@1L/m Ar)	ME2005



ME2020
PFA-20 Nebulizer with
Integrated Capillary

PFA Nebulizers with Integrated Probes

Description	Part Number
PFA-20 MicroFlow Nebulizer with integrated autosampler probe (carbon fiber support), 20µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20203503100
PFA-50 MicroFlow Nebulizer with integrated autosampler probe (carbon fiber support), 50µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20003503100
PFA-100 MicroFlow Nebulizer with integrated autosampler probe (carbon fiber support), 100µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20023503100
PFA-200 MicroFlow Nebulizer with integrated autosampler probe (carbon fiber support), 200µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20033503100
PFA-400 MicroFlow Nebulizer with integrated autosampler probe (carbon fiber support), 400µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20053503100
PFA-20 MicroFlow Nebulizer with integrated autosampler probe (ultem support), 20µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20203505100
PFA-50 MicroFlow Nebulizer with integrated autosampler probe (ultem support), 50µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20003505100
PFA-100 MicroFlow Nebulizer with integrated autosampler probe (ultem support), 100µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20023505100
PFA-200 MicroFlow Nebulizer with integrated autosampler probe (ultem support), 200µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20033505100
PFA-400 MicroFlow Nebulizer with integrated autosampler probe (ultem support), 400µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20053505100



ME20023503100
PFA-100 Nebulizer with
Integrated Probe

PFA Sample Capillaries for ST Nebulizers

Description	Part Number
Self-aspirating sample capillary for ST nebulizer, 0.15 mm ID (red marker), 20µL/min measured self-aspiration rate (@1L/m Ar)	ME2045
Self-aspirating sample capillary for ST nebulizer, 0.20 mm ID (purple marker), 50µL/min measured self-aspiration rate (@1L/m Ar)	ME2043
Self-aspirating sample capillary for ST nebulizer, 0.25 mm ID (green marker), 100µL/min measured self-aspiration rate (@1L/m Ar)	ME2042
Self-aspirating sample capillary for ST nebulizer, 0.30 mm ID (yellow marker), 200µL/min measured self-aspiration rate (@1L/m Ar)	ME2047
Self-aspirating sample capillary for ST nebulizer, 0.50 mm ID (orange marker), 400µL/min measured self-aspiration rate (@1L/m Ar)	ME2041
Self-aspirating sample capillary for ST nebulizer, 0.80 mm ID (blue marker), 700µL/min measured self-aspiration rate (@1L/m Ar)	ME2044
Self-aspirating sample capillary for ST nebulizer, 1.00 mm ID (gray marker), 1mL/min measured self-aspiration rate (@1L/m Ar)	ME2049



ME2042
PFA Sample Capillary

Unifit Adapter

Description	Part Number
Unifit adapter, 6 mm glass concentric nebulizer to 12 mm inlet port (218080256)	ML130024



ML130024
Unifit Adapter

Nebulizer Tubing Clamp

Description	Part Number
Nebulizer gas tubing clamp (N0777460)	Snapper 1.251

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers (8100-2051)	PRL-02

(See page 83 for more information)



PRL-02
Pearl Nebulizer Cleaner

M100 47mm Spray Chamber

Description	Part Number
PFA 47mm M-100 Spray Chamber for PE Optima 2000/4000/5000/7000/8000/DV with o-ring-free PFA endcap, no additional gas port. ESI injector connection. Includes ES-5103-4000 PFA straight adapter for PE Optima injector. (N0777645)	MEM1575470



MEM1575470
M100 Spray Chamber

O-Ring Kit

Description	Part Number
O-ring kit for GemTip Nebulizer, pack of 4	MM21045

Pyrex Spray Chamber

Description	Part Number
Pyrex spray shamber "Scott" Type, barrel (0047-2047)	ML135012



ML135012
Pyrex Spray Chamber

Cyclonic Spray Chambers

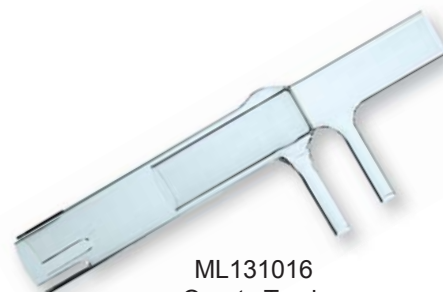
Description	Part Number
Cyclonic spray chamber 2x00/4x00/5x00DV, baffled, Unifit (included) (N0776053)	ML130020
ML130020 with Easy-Seal threaded nebulizer inlet and PFA cap (N0775352)	ML130020ES
Cyclonic spray chamber 2x00/4x00/5x00DV, No Baffle, Unifit (Included). Suits all Optima types from the 2x00 up to the 8x00. (N0776052)	ML130021
ML130021 with Easy-Seal threaded nebulizer inlet and PFA cap	ML130021ES
Cyclonic Spray Chamber, 2x00/4x00/5x00DV, baffled, o-rings	ML130022
Cyclonic Spray Chamber, 4x00/5x00V, baffled, top socket, Unifit (included)	ML130023
Cyclonic Spray Chamber 2x00/4x00/5x00DV, 4 mm Baffle (organics), Unifit (N0776090)	ML130031
Quartz cyclonic spray chamber for PE Optima 4x00/5x00/7x00 DV/8x00. No baffle. Includes ES-5103-4070 PFA Elbow adapter for ESI injector. (N0777635)	ME3157100121
PFA cyclonic spray chamber for PE Optima 4x00/5x00/7x00 DV/8x00, 7 mm baffled. Includes ES-5103-4070 PFA Elbow adapter for ESI injector. (N0777636)	ME3157301121
Quartz cyclonic spray chamber for PE Optima 4x00/5x00/7x00 DV, 7mm baffle, drain line included (no aux. gas port) (N0777036)	ME3157101121
ML130031 with Easy-Seal threaded nebulizer inlet and PFA cap	ML130031ES



ML130020ES
Cyclonic
Spray Chamber

Quartz Torch

Description	Part Number
Quartz torch, 4000V, 3 slots (N0771500)	ML131016



ML131016
Quartz Torch

Quartz Torch Tubes

Description	Part Number
Quartz torch tube, 2000/4000/5000 DV, short, organics (N0770344)	ML131017
Quartz torch tube, 2000/4000/5000 DV, no slot (N0770343)	ML131019
Quartz torch tube, 2000/4000/5000 DV, 1 slot, ES-1402-4000 (N0770338)	ML131020
Quartz torch tube, 2000/4000/5000 DV, 3 slots (N0772005)	ML131021
Optima 8000 torch, 1 slot (N0780130)	ML131050
Optima 8000 torch, 3 slots (N0780132)	ML131052
Optima 8000 torch, organics, No slot (N0780133)	ML131053



ML131021
Quartz Torch Tube

Quartz Bonnet

Description	Part Number
Quartz Bonnet for 2000/4000 Series (N0775289)	ML131025



ML131025
Quartz Bonnet

Quartz Injectors

Description	Part Number
Quartz Injector, 0.8mm, 2000/4000 (N0775225)	ML131040
Quartz Injector, 1.2mm, 2000/4000 (N0775226)	ML131041
Quartz Injector, 1.6mm, 2000/4000 (N0775223)	ML131042
Quartz Injector, 2.0mm, 2000/4000 (N0775014)	ML131043
Quartz Injector, 3.0mm, 2000/4000 (N0775224)	ML131044



ML131042
Quartz Injector

Alumina Injectors

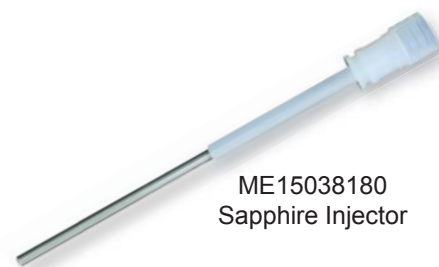
Description	Part Number
Alumina Injector, 1.2 mm, Optima 2000V/4000V/5000V (N0771531)	MA1531
Alumina Injector, 2.0mm, Optima 2000/4000/5000, DV (N0775177)	MA5177
Alumina Injector, 0.80mm, 2000/4000/5000 DV (N0775227)	MA5227
Alumina Injector, 1.2mm, 2000/4000/5000 DV (N0775228)	MA5228
Alumina Injector, 2.0mm, 3000XL, 3x00DV, 4300V, 5300V (N0695362)	MA5362
Alumina Injector, 1.2mm, 2000/4000/5000 DV (N0776093)	MA6093



MA1531
Alumina Injector

Sapphire Injector

Description	Part Number
Sapphire injector, 1.8mm, for PE Optima 8000 Series. Attaches to ESI spray chamber (N0782005)	ME15038180



ME15038180
Sapphire Injector

Convertible Sapphire Injectors

Description	Part Number
Convertible sapphire injector with PEEK adapter, 1.5 mm, Optima 4000/5000/7000	ME15038157
Convertible sapphire injector with PEEK adapter, 1.8 mm, Optima 4000/5000/7000	ME15038187



ME15038187
Convertible Sapphire Injector

Convertible Quartz Injectors

Description	Part Number
Convertible quartz injector with PEEK adapter, 1.0 mm, Optima 4000/5000/7000	ME15248107
Convertible quartz injector with PEEK adapter, 1.5 mm, Optima 4000/5000/7000	ME15248157



ME15248107
Convertible Quartz Injector

Axial Purge Windows

Description	Part Number
Axial purge window, Optima 3000 DV, 4000, 5000, 7000 DV (B0066549)	MP6549
Axial purge window, Optima 4x00/5x00 (N0771116)	ML771116



MP6549
Axial Purge Window

Radial Purge Window

Description	Part Number
Radial purge window, Optima 4x00DV/5x00DV (N0770322)	MP770322



MP770322
Radial Purge Window

PerkinElmer Optima 2x00DV - 8x00DV

pergo Argon Nebulizer Gas Humidifier

Description	Part Number
pergo argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01
pergo argon high solids accessory including MEINHARD® Type A Plus high performance nebulizer	PRG-01-MAPlus

(See page 21 for more information)



PRG-01
pergo High Solids Accessory

PC³ Peltier Cooler Kit

Description	Part Number
PC ³ Peltier cooler. Includes a quartz cyclonic spray chamber and PFA-ST nebulizer.	ME41905729



ME41905729
PC³ Peltier Cooler

PC³-LT Peltier Cooler Kit

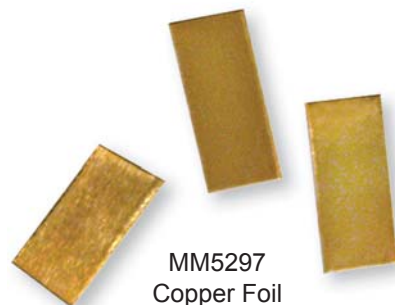
Description	Part Number
PC ³ -LT Peltier cooler, reaches -20° C. Includes a quartz cyclonic spray chamber and PFA-ST nebulizer.	ME91905729



ME91905729
PC³-LT Peltier Cooler

Copper Foil

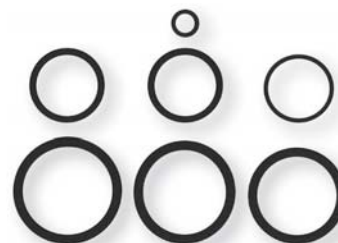
Description	Part Number
Copper foil, Optima 2000/4000/5000 torch, 24 pieces (N0775297)	MM5297



MM5297
Copper Foil

O-Ring Kit

Description	Part Number
O-ring Kit for Optima 2000/4000/5000, pack of 6 (N0770437)	MM770437

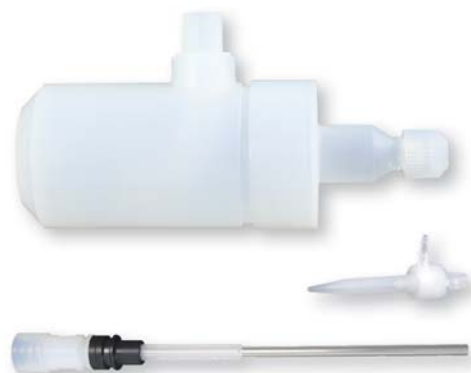


MM770437
O-ring Kit

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

HF Resistant Sample Intro Kit

Description	Part Number
Complete HF-resistant sample introduction kit. Includes PFA-ST nebulizer, PureCap PFA endcap, 47 mm PFA spray chamber, 1.8 mm convertible sapphire injector and quartz torch. For the Optima DV (Axial)	MEM257DV29



MEM257DV29
HF Resistant Sample Intro Kit

Pipette Tips

Description	Part Number
100 µL PFA PureTip pipette tips, pre-cleaned, pack of 10 (N0777394)	ME70000101
1000 µL PFA PureTip pipette tips, pre-cleaned, pack of 10 (N0777395)	ME70001001



ME70000101 & ME70001001
Pipette Tips

2-Stop PVC Peristaltic Pump Tubing

Description	Part Number
2-stop PVC pump tubing, 0.76 mm ID, (black/black), 12 pc (09908587)	Tube-PVCSD-30
2-stop PVC pump tubing, flared, 0.76 mm ID, (black/black), 12 pc	Tube-PVCSD-30-F
2-stop PVC pump tubing, 1.14 mm ID, (red/red), 12 pc (N0680375)	Tube-PVCSD-45



Tube-PVCSD-30
2-stop PVC
Pump Tubing

2-Stop SolventFlex Peristaltic Pump Tubing

Description	Part Number
2-stop SolventFlex pump tubing, 0.76 mm ID, (black/black), 12 pc (00473550)	Tube-SolFSD-30
2-stop SolventFlex pump tubing, flared, 0.76 mm ID, (black/black), 12 pc	Tube-SolFSD-30-F
2-stop SolventFlex pump tubing, 1.14 mm ID, (red/red), 12 pc (N0680376)	Tube-SolFSD-45



Tube-SolFSD-30
2-stop SolventFlex
Pump Tubing

Visit www.meinhard.com for additional tubing options.

Quartz Nebulizers

Description	Part Number
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 1 L/min @ 30 psi (WE024371)	TQ-30-A3



TQ-30-A3
Type A Quartz
Nebulizer

Glass Nebulizers

Description	Part Number
MEINHARD® TR+ glass nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi	TRP-30-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, low cost, high sensitivity, nominal uptake 3 mL/min, 1 L/min @ 30 psi (00472020)	TR-30-A3
MEINHARD® Type C glass nebulizer, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi	TR-30-C0.5
MEINHARD® Type C glass nebulizer, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 3 mL/min, 1 L/min @ 30 psi (N8102011)	TR-30-C3
MEINHARD® Type K glass nebulizer, lapped flush nozzle, recessed (0.5 mm) capillary, high solids, nominal uptake 3 mL/min, 0.7 L/min @ 30 psi (N0681574)	TR-30-K3
MEINHARD® Type C glass nebulizer, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 1 mL/min, 1 L/min @ 50 psi (0047-2022)	TR-50-C1



TR-30-A3
Type A Glass
Nebulizer

PFA Nebulizer

Description	Part Number
MicroFlow PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME204057



ME204057
PFA-ST Nebulizer

Poly-Pro Nebulizer

Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME404057



ME404057
PolyPro-ST Nebulizer

PEEK Nebulizer

Description	Part Number
Burgener PEEK MiraMist parallel-path nebulizer. Includes an argon line and sample capillary. (N0775330)	PMM4000



PMM4000
PEEK MiraMist Nebulizer

Solution Inlet Adapter

Description	Part Number
Solution inlet adapter for 4 mm standard liquid input nebulizers, includes union, ferrules, and 5' of 1/16" o.d. Tefzel sample tubing and #160 (WE024372)	Fit Kit 3



Fit Kit 3
Solution Inlet Adapter

F0 Encapsulated Micro Tubing

Description	Part Number
F0 Encapsulated micro tubing for low uptake rates from 0.1 to 0.5 mL/min and the lowest internal volume of any nebulizer. Includes 0.25 mm i.d. ■ (green marker) 70 cm long micro capillary.	F0-25



F0-25
F0 Encapsulated Micro Tubing

F1 Detachable Capillary

Description	Part Number
F1 Detachable capillary for a wide range of applications. Includes 0.80 mm i.d. ■ (blue marker) 70 cm long capillary.	F1-80



F1-80
F1 Detachable Capillary

F2 Standard PFA Integrated Capillary

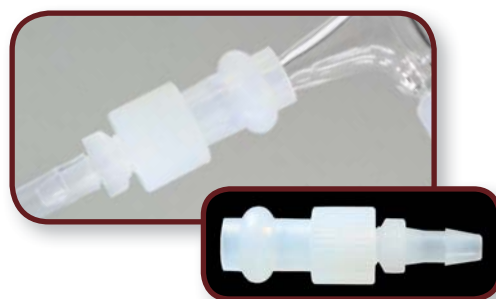
Description	Part Number
F2 Standard integrated capillary for self-aspiration or pumping. Includes 0.5 mm i.d. ■ (orange marker) 70 cm long capillary.	F2-50



F2-50
F2 Integrated Capillary

FG Gas Quick Connect for MEINHARD® Nebulizers

Description	Part Number
FG Gas Quick Connect for MEINHARD® Nebulizers with maria for both small bore and standard bore nebulizers.	FG



FG
FG Gas Quick Connect

Nebulizer Gas Quick Connects

Description	Part Number
Gas Quick Connect for MEINHARD® Nebulizers with PFA-Press Fit for 4 mm tubing. Forms a tight seal over the maria on the sidearm of the nebulizer.	F4
Optima Nebulizer Gas Quick Connect with PFA-Press Fit for 4 mm tubing. Connects to the instrument.	F4-57



F4
Nebulizer Gas Quick Connect

(See page 102 for more information)

Unifit Adapter

Description	Part Number
Unifit adapter, 6 mm glass concentric nebulizer to 12 mm inlet port (218080256)	ML130024



ML130024
Unifit Adapter

Nebulizer Tubing Clamp

Description	Part Number
Nebulizer gas tubing clamp (N0777460)	Snapper 1.251

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers (8100-2051)	PRL-02

(See page 83 for more information)



PRL-02
Pearl Nebulizer Cleaner

O-Ring Kit

Description	Part Number
O-ring kit for GemTip Nebulizer, pack of 4	MM21045

pergo Argon Nebulizer Gas Humidifier

Description	Part Number
pergo argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01
pergo argon high solids accessory including MEINHARD® Type A Plus high performance nebulizer	PRG-01-MAPlus

(See page 21 for more information)



PRG-01
pergo High Solids Accessory

Pyrex Cyclonic Spray Chambers

Description	Part Number
Cyclonic glass spray chamber, Optima 3000DV, 3000XL (N812-2188)	ML130019XL
Cyclonic glass spray chamber, Optima 3000 RL, SCR	ML130019



ML130019
Cyclonic Spray Chamber

PC³ Peltier Cooler

Description	Part Number
PC ³ Peltier-thermostatted quartz spray chamber, with PFA-ST nebulizer	ME419057V29



ME419057V29
PC³ Peltier Cooler

Drain Line

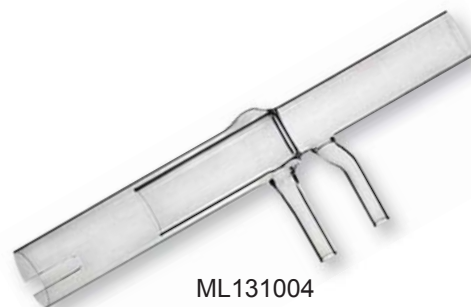
Description	Part Number
Threaded drain line for spray chamber, PharMed, 0,75mm x 1m	ME20440002



ME20440002
Threaded Drain Line

Quartz Torches

Description	Part Number
Quartz Torch Tube, 3 slots, 138mm, Optima 3000 RL	ML131001
Quartz Torch Tube, 1 slot, 138mm, Optima 3000 RL (N0690568)	ML131004
Quartz Torch Tube, no slot, 125mm, Optima 3000 RL	ML131005
Optima 3x00DV Quartz Torch, 2-slot	ML131012
Optima 3x00DV Quartz Torch Tube, 1-slot (N069-1662)	ML131014
Optima 3x00DV Quartz Torch Tube, 3-slot	ML131015



ML131004
Quartz Torch

Quartz Bonnets

Description	Part Number
Quartz bonnet for 3000 Axial/DV (N0691664)	ML131031
Quartz bonnet for 3000 (after 9/21/94) (N0695456)	ML131032
Quartz bonnet for 3000 RL (before 9/21/94) (N0695295)	ML131033



ML131031
Quartz Bonnet

Quartz Injectors

Description	Part Number
Quartz injector, 2.0mm, 3x00 XL and 3000 RL (N0695441)	ML132040
Quartz injector, 2.0 mm, 3x00 XL / DV, L=83mm (N0695442)	ML132041
Quartz injector, 1.6mm, 3x00 XL / DV, L=83mm (N0695449)	ML132044
Quartz injector, 1.2 mm, Optima 3000 XL/DV, 4300V, 5300V (N0695460)	ML130046



ML132041
Quartz Injector

Alumina Injectors

Description	Part Number
Alumina Injector, Optima 3x00 XL/DV ID=2.0, L=83mm (N0695362)	MA5362
Alumina Injector, Optima 3x00 RL, ID=2.0. Also N8126039 (N0582186)	MA2186



MA2186
Alumina Injector

Radial Purge Windows

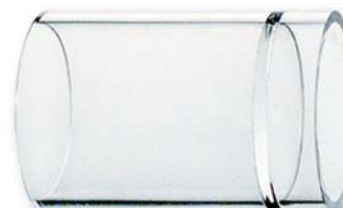
Description	Part Number
Quartz Radial purge window, Optima 3000R, 3000 SCR, 3000 RL, 4x00V, 5x00V (N0581497)	MP1497
Quartz Radial purge window, Optima 3000 DV - short tube (N0690672)	MP0672
Tube Assy-NGO DV radial window (N0770944)	ML770944



MP0672
Radial Purge Window

Axial Purge Window

Description	Part Number
Quartz Axial purge window, Optima 3000 DV - long tube (N0691689)	MP1689
Quartz Axial purge window, Optima 2x00, 3x00XL/3000SCX (0999273)	MP2731



MP1689
Axial Purge Window

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

O-Ring Kit

Description	Part Number
O-ring kit for Optima 3000XL/DV, packet of 9 (N0690769)	MM690769



MM690769
O-ring Kit

2-Stop PVC Peristaltic Pump Tubing

Description	Part Number
2-stop PVC pump tubing, 0.76 mm ID, (black/black), 12 pc (09908587)	Tube-PVCSD-30
2-stop PVC pump tubing, flared, 0.76 mm ID, (black/black), 12 pc	Tube-PVCSD-30-F
2-stop PVC pump tubing, 1.14 mm ID, (red/red), 12 pc (N0680375)	Tube-PVCSD-45



Tube-PVCSD-30
2-stop PVC
Pump Tubing

2-Stop SolventFlex Peristaltic Pump Tubing

Description	Part Number
2-stop SolventFlex pump tubing, 0.76 mm ID, (black/black), 12 pc (00473550)	Tube-SolFSD-30
2-stop SolventFlex pump tubing, flared, 0.76 mm ID, (black/black), 12 pc	Tube-SolFSD-30-F
2-stop SolventFlex pump tubing, 1.14 mm ID, (red/red), 12 pc (N0680376)	Tube-SolFSD-45



Tube-SolFSD-30
2-stop SolventFlex
Pump Tubing

Visit www.meinhard.com for additional tubing options.

Quartz Nebulizer

Description	Part Number
MEINHARD® Type C concentric quartz nebulizer, polished, recessed (0.5 mm) capillary, low background, high solids, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TQ-30-C1



TQ-30-C1
Quartz Nebulizer

Glass Nebulizers

Description	Part Number
MEINHARD® Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TR-30-A1
MEINHARD® Type C glass nebulizer, 1 mL/min, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 1 mL/min, 1 L/min @ 30 psi (046-00092-02)	TR-30-C1



TR-30-A1
Type A Glass
Nebulizer

PFA Nebulizer

Description	Part Number
MicroFlow PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME2040



ME2040
PFA-ST Nebulizer

Poly-Pro Nebulizer

Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME4040



ME4040
PolyPro-ST Nebulizer

PEEK Nebulizer

Description	Part Number
PEEK MiraMist nebulizer. Includes an argon line and sample capillary.	PMM4000



PMM4000
PEEK MiraMist Nebulizer

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers	PRL-02

(See page 83 for more information)



PRL-02
Pearl Nebulizer Cleaner

pergo Argon Nebulizer Gas Humidifier

Description	Part Number
pergo argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01
pergo argon high solids accessory including MEINHARD® Type A Plus high performance nebulizer.	PRG-01-MAPlus

(See page 21 for more information)



PRG-01
pergo High Solids Accessory

Cyclonic Spray Chambers

Description	Part Number
Pyrex cyclonic spray chamber, top socket, baffled, 4 mm drain, o-rings	ML151026
Pyrex cyclonic spray chamber, top socket, baffled with Easy-Seal threaded nebulizer inlet and PFA cap	ML151026ES
Quartz cyclonic spray chamber, baffled, top socket, 4 mm drain, o-rings	ML151026Q
Pyrex cyclonic spray chamber, top socket, no baffle, 4 mm drain, o-rings	ML151027
Pyrex cyclonic spray chamber, top socket, no baffle with Easy-Seal threaded nebulizer inlet and PFA cap	ML151027ES
Quartz cyclonic spray chamber, top socket, no baffle, 4 mm drain, o-rings	ML151027Q



ML151027
Pyrex Cyclonic
Spray Chamber

PC³ Peltier Cooler

Description	Part Number
PC ³ Peltier cooler. Includes a quartz cyclonic spray chamber.	ME41909529



ME41909529
PC³ Peltier Cooler

PC³-LT Peltier Cooler

Description	Part Number
PC ³ -LT Peltier cooler, reaches -20° C. Includes a quartz cyclonic spray chamber.	ME91909529



ME91909529
PC³-LT Peltier Cooler

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

Quartz One-Piece Torches with Ball Joint

Description	Part Number
Quartz torch, radial, fixed 1.5 mm injector, long tube (20470272)	ML160005
Quartz mini torch, fixed injector (21181448)	ML160008
Quartz high TDS torch, fixed 1.8 mm injector, 7500/8100/9000	ML160010
Quartz torch, organics, fixed 1.0 mm injector 7500/8100/9000	ML160011

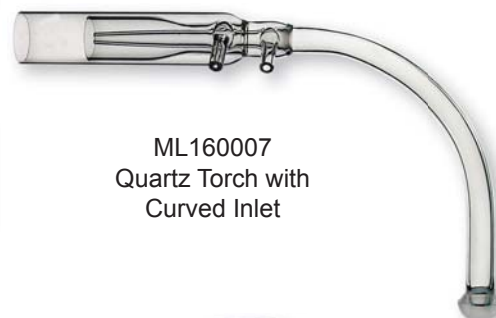


Quartz O-Ring-Free Demountable Torches

Description	Part Number
Quartz o-ring-free mini torch, demountable	ML160014
Quartz o-ring-free torch, demountable	ML160015

Quartz One-Piece Torch with Curved Inlet

Description	Part Number
Quartz torch with curved inlet to tapered injector, axial, fixed injector, long tube (21146605)	ML160007



2-Stop PVC Peristaltic Pump Tubing

Description	Part Number
2-stop PVC pump tubing, 0.64 mm ID, (orange/white), 12 pc	Tube-PVCSD-25
2-stop PVC pump tubing, 1.02 mm ID, (white/white), 12 pc	Tube-PVCSD-40
2-stop PVC pump tubing, flared, 0.64 mm ID, (orange/white), 12 pc	Tube-PVCSD-25-F



3-Stop PVC Peristaltic Pump Tubing

Description	Part Number
3-stop PVC pump tubing, 0.89 mm ID, (orange/orange/orange), 12 pc	Tube-PVCSD-35-3
3-stop PVC pump tubing, 1.14 mm ID, (red/red/red), 12 pc	Tube-PVCSD-45-3
3-stop PVC pump tubing, flared, 0.89 mm ID, (orange/orange/orange), 12 pc	Tube-PVCSD-35-3-F



Visit www.meinhard.com for additional tubing options.

apex Q - Quartz Inlet System.

Features a quartz, o-ring-free flow path for high sensitivity, low background and rapid rinse-out of samples that do not contain hydrofluoric acid.

apex IR for Isotope Ratio Analysis.

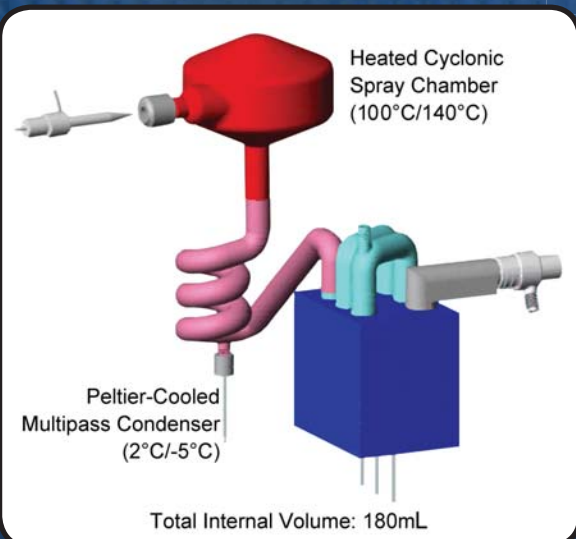
Developed for isotope ratio analysis, the apex IR has a quartz flow path and includes an additional mixing chamber that further homogenizes and stabilizes the sample aerosol stream, resulting in a more stable signal.

apex HF for Hydrofluoric Acid Resistance.

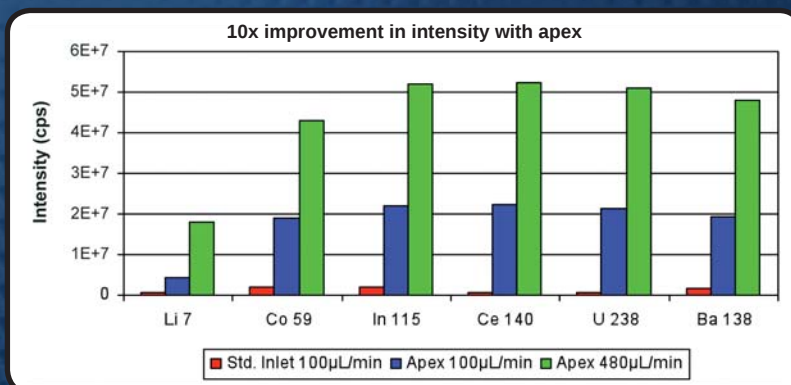
Uses a high purity, o-ring-free PFA flow path for the introduction of samples containing hydrofluoric acid. The apex HF is recommended for many geochemical and semiconductor applications.

apex IR

apex Q



Preset dual temperature settings for heater and cooler. Patented flow path design ensures rapid wash in / washout.



Quartz Nebulizer

Description	Part Number
MEINHARD® SilQ+ Ultra high purity quartz nebulizer, low internal volume, nominal uptake 0.5 mL/min, 1 mL/min @ 50 psi, with FG PFA gas fitting and F2 sample uptake line (See page 33 for more information)	SILQ-50-A0.5



SILQ-50-A0.5
SilQ+ Quartz
Nebulizer

Glass Nebulizers

Description	Part Number
MEINHARD® Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 1 mL/min, 1L/min @ 30 psi	TR-30-A1
MEINHARD® Type K glass nebulizer, lapped flush nozzle, high solids, recessed (0.5 mm) capillary, nominal uptake 2 mL/min, 0.7 mL/min @ 30 psi	TR-30-K2



TR-30-K2
Type C Glass
Nebulizer

PFA Nebulizers

Description	Part Number
MicroFlow PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME2040
PFA MicroFlow high solids large bore nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME2030



ME2040
PFA-ST Nebulizer

Poly-Pro Nebulizer

Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME4040



ME4040
PolyPro-ST Nebulizer

PEEK Nebulizer

Description	Part Number
PEEK MiraMist nebulizer. Includes an argon line and sample capillary.	PMM4000



PMM4000
PEEK MiraMist Nebulizer

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers	PRL-02



PRL-02
Pearl Nebulizer Cleaner

(See page 83 for more information)

Liquid Inlet Fitting

Description	Part Number
Liquid inlet fitting and argon tubing with quick disconnect for TR-30-C1	MM175100

MM175100
Liquid Inlet
Fitting



Double Pass Spray Chamber

Description	Part Number
Large double pass spray chamber, end-on plasma (EOP) (48105051)	ML175019

ML175019
Double Pass Spray
Chamber



Cyclonic Spray Chambers

Description	Part Number
Cyclonic spray chamber, top socket, pump drain (48105001)	ML175026
Cyclonic spray chamber, top socket, pump drain with Easy Seal threaded inlet and PFA cap	ML175026ES
Cyclonic spray chamber, end-on plasma (EOP), pump drain (48105061)	ML175026EOP
Cyclonic spray chamber, top socket, pump drain with Easy-Seal threaded inlet and PFA Cap	ML175026EOP-ES
Quartz Cyclonic Spray Chamber, Socket	ML175026Q
Quartz Cyclonic Spray Chamber, Jacketed, Threaded Ports (USA00850)	ML175026QJ
Quartz Cyclonic Spray Chamber for PC ³ Peltier cooler	ME31671011



ML175026EOP
Cyclonic Spray
Chamber

12/5 Socket Adapter

Description	Part Number
Pyrex adapter, 12/5 socket, female, 45 mm for ICP (48105011)	ML175031

ML175031
Pyrex Socket Adapter



PFA Spray Chamber

Description	Part Number
47 mm HF resistant PFA spray chamber with PFA PureCap endcap with additional gas port	ME22565470



ME22565470
47 mm PFA Spray Chamber

PFA Spray Chamber Kit

Description	Part Number
HF resistant PFA spray chamber kit. Includes high sample flow PFA spray chamber with barbed exit port, polypropylene adapter for Spectro cross-flow nebulizer, ES-2100-2479 drain line, fittings, PFA barbed connector and 25 cm long tygon tubing 1/4" i.d.	ME21002477



ME21002477
PFA Spray Chamber Kit

pergo Argon Nebulizer Gas Humidifier

Description	Part Number
pergo argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01
pergo argon high solids accessory including MEINHARD® Type A Plus high performance nebulizer.	PRG-01-MAPlus

(See page 21 for more information)



PRG-01
pergo High Solids Accessory

PC³ Peltier Cooler

Description	Part Number
PC ³ Peltier cooler for Spectro EOP. Includes a quartz cyclonic spray chamber.	ME41671011



ME41671011
PC³ Peltier Cooler

Quartz One-Piece Torches with Sheath Gas

Description	Part Number
Quartz torch, end-on plasma (EOP), Axial, with sheath gas, fixed 3.2 mm injector (75260533)	ML175047
Quartz torch, end-on plasma (EOP), Axial, with sheath gas, fixed 2.5 mm Injector (75160537)	ML175048
Quartz torch, end-on plasma (EOP), Axial, with sheath gas, fixed 1.8 mm Injector (75160549)	ML175049



ML175049
Quartz Torch with
1.8 mm Injector

Quartz Torch, Demountable Injector

Description	Part Number
Quartz torch, end-on plasma (EOP), Axial, demountable with flare, 80 mm length	ME1702EOP



ME1702EOP
Quartz Torch

Quartz One-Piece Torches

Description	Part Number
Quartz torch, end-on plasma (EOP), Axial, flared end, fixed 2.5 mm injector (48105052)	ML175040
Quartz torch, end-on plasma (EOP), Axial, flared end, fixed 2.2 mm injector	ML175041
Quartz torch, end-on plasma (EOP), Axial, flared end, fixed 1.8 mm injector (48105052A)	ML175042



ML175040
Quartz Torch with
2.5 mm Injector

Quartz Non-Flared Torch, Demountable Injector

Description	Part Number
Quartz torch, end-on plasma (EOP), Axial, demountable no flare, 80 mm Length (48206007)	ML175044



ML175044
Quartz Torch,
Non-Flared

Quartz Injectors, Demountable

Description	Part Number
Quartz injector, 1.5 mm (48105008)	ML175021
Quartz injector, 1.8 mm (48105010)	ML175022
Quartz injector, 2.5 mm (48105009)	ML175023



ML175021
Quartz Injector

Sapphire Injectors, Demountable

Description	Part Number
Sapphire injector, HF resistant, 1.5 mm	ME19800150
Sapphire injector, HF resistant, 1.8 mm	ME19800180
Sapphire injector, HF resistant, 2.5 mm	ME19800250



ME19800180
Sapphire Injector

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

Tubing and Gas Connectors

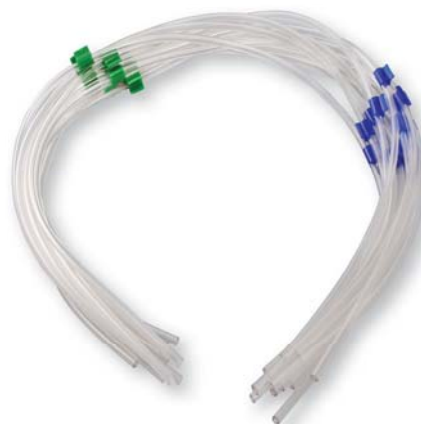
Description	Part Number
Tubing and gas connectors (44302072 & 44302077)	MM175055



MM175055
Tubing and Gas Connectors

Peristaltic Pump Tubing

Description	Part Number
2-stop Tygon pump tubing, 0.38 mm ID, 151 mm bridge distance (orange/green), 12 pc (47201037)	Tube-PVCSD-15
2-stop Tygon pump tubing, 1.75 mm ID, 151 mm bridge distance (orange/orange), 12 pc (47101003)	Tube-PVCSD-35
2-stop Tygon pump tubing, 1.30 mm ID, 151 mm bridge distance (grey/grey), 12 pc (47501010)	Tube-PVCSD-51
2-stop Tygon pump tubing, 1.75 mm ID, 151 mm bridge distance (blue/green), 12 pc (47101005)	Tube-PVCSD-69



Tube-PVCSD-69
1.75 mm Pump
Tubing

Flared Peristaltic Pump Tubing

Description	Part Number
2-stop Tygon pump tubing, 0.38 mm ID, 2.0 mm flared (orange/green), 12 pc (4720137)	Tube-PVCSD-15-F
2-stop Tygon pump tubing, 0.89 mm ID, 2.0 mm flared, 151 mm bridge distance (orange/orange), 12 pc (47101003)	Tube-PVCSD-35-F
2-stop Tygon pump tubing, 1.30 mm ID, 2.0 mm flared, 151 mm bridge distance (grey/grey), 12 pc (47501010)	Tube-PVCSD-51-F



Tube-PVCSD-35-F
2.0 mm Flared
Pump Tubing

Visit www.meinhard.com for additional tubing options.

PC^{3x}

PC^{3x} Peltier Controlled Cyclonic Chamber

Thermally stabilized inlet system for ICP and ICPMS

- Temperature control from -10°C to +80°C
- Thermal stabilization of spray chamber improves long-term stability
- Last set temperature saved for stand alone operation
- USB or Bluetooth connectivity
- Remote monitoring and control



PC^{3x} Peltier Heated and Cooled Inlet System

Contact sales@meinhard.com for more details and pricing

Heating Function To Increase Sensitivity!



Elemental Scientific

Quartz Nebulizer

Description	Part Number
MEINHARD® SilQ+ Ultra high purity quartz nebulizer, low internal volume, nominal uptake 0.5 mL/min, 1 mL/min @ 50 psi, with FG PFA gas fitting and F2 sample uptake line (See page 33 for more information)	SILQ-50-A0.5



SILQ-50-A0.5
SilQ+ Quartz
Nebulizer

Glass Nebulizers

Description	Part Number
MEINHARD® Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TR-30-A1
MEINHARD® Type C glass nebulizer, 1 mL/min, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 1 mL/min, 1 L/min @ 30 psi (76060510)	TR-30-C1
MEINHARD® Type K glass nebulizer, lapped flush nozzle, high solids, recessed (0.5 mm) capillary, nominal uptake 2 mL/min, 0.7 L/min @ 30 psi	TR-30-K2



TR-30-K2
Type C Glass
Nebulizer

PFA Nebulizers

Description	Part Number
MicroFlow PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME2040
PFA MicroFlow high solids large bore nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME2030



ME2040
PFA-ST Nebulizer

Poly-Pro Nebulizer

Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME4040



ME4040
PolyPro-ST Nebulizer

PEEK Nebulizer

Description	Part Number
PEEK MiraMist nebulizer. Includes an argon line and sample capillary.	PMM4000



PMM4000
PEEK MiraMist Nebulizer

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers	PRL-02

(See page 83 for more information)



PRL-02
Pearl Nebulizer Cleaner

Liquid Inlet Fitting

Description	Part Number
Liquid inlet fitting and argon tubing with quick disconnect for TR-30-C1	MM175100



MM175100
Liquid Inlet
Fitting

Spray Chambers

Description	Part Number
Spray chamber, slurry	ML175010
Spray chamber, upward conical open (48105003)	ML175012
Spray chamber, large double pass (48105006)	ML175014
Spray chamber, large, double pass, jacketed, threaded ports (48106008)	ML175018



ML175014
Double Pass
Spray Chamber

Cyclonic Spray Chambers

Description	Part Number
Cyclonic spray chamber, top socket, pump drain (48105001)	ML175026
Cyclonic spray chamber, top socket, pump drain with Easy Seal threaded inlet and PFA cap	ML175026ES
Quartz Cyclonic Spray Chamber, Socket	ML175026Q
Quartz Cyclonic Spray Chamber, Jacketed, Threaded Ports (USA00850)	ML175026QJ
Quartz Cyclonic Spray Chamber for PC ³ Peltier cooler	ME31671001



ML175026
Cyclonic Spray
Chamber

PFA Spray Chamber

Description	Part Number
47 mm HF resistant PFA spray chamber with PFA PureCap endcap with additional gas port	ME22565470



ME22565470
47 mm PFA Spray Chamber

PFA Spray Chamber Kit

Description	Part Number
HF resistant PFA spray chamber kit. Includes high sample flow PFA spray chamber with barbed exit port, polypropylene adapter for Spectro cross-flow nebulizer, ES-2100-2479 drain line, fittings, PFA barbed connector and 25 cm long tygon tubing 1/4" i.d.	ME21002477



ME21002477
PFA Spray Chamber Kit

PC³ Peltier Cooler

Description	Part Number
PC ³ Peltier cooler for Spectro SOP. Includes a quartz cyclonic spray chamber.	ME41671011



ME41671011
PC³ Peltier Cooler

pergo Argon Nebulizer Gas Humidifier

Description	Part Number
<i>pergo</i> argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01
<i>pergo</i> argon high solids accessory including MEINHARD® Type A Plus high performance nebulizer.	PRG-01-MAPlus

(See page 21 for more information)



PRG-01
pergo High Solids Accessory

Quartz One-Piece Torches

Description	Part Number
Quartz torch, Spectroflame, fixed injector 1.8 mm (75060596)	ML175005
Quartz torch, Spectroflame, fixed injector 2.5 mm	ML175008
Quartz torch, Spectroflame, radial, fixed injector 1.0 mm (48205001)	ML175007



ML175005
Quartz Torch

Quartz Torches, Demountable Injector

Description	Part Number
Quartz torch, side-on plasma (SOP), Axial, demountable, no flare, 100 mm length	ME1702SOP
Quartz torch, radial, demountable, 80 mm Length (75060545)	ML175006
Quartz torch, organic, does not include gas fittings (75360521)	ML175009



ME1702SOP
Quartz Torch

Quartz Non-Flared Torch, Demountable Injector

Description	Part Number
Quartz torch, end-on plasma (SOP), demountable no flare, 100 mm Length (48206002)	ML175043



ML175043
Quartz Torch,
Non-Flared

Quartz Injectors, Demountable

Description	Part Number
Quartz injector, 1.5 mm (48105008)	ML175021
Quartz injector, 1.8 mm (48105010)	ML175022
Quartz injector, 2.5 mm (48105009)	ML175023



ML175021
Quartz Injector

Sapphire Injectors, Demountable

Description	Part Number
Sapphire injector, HF resistant, 1.5 mm	ME19800150
Sapphire injector, HF resistant, 1.8 mm	ME19800180
Sapphire injector, HF resistant, 2.5 mm	ME19800250



ME19800180
Sapphire Injector

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

Tubing and Gas Connectors

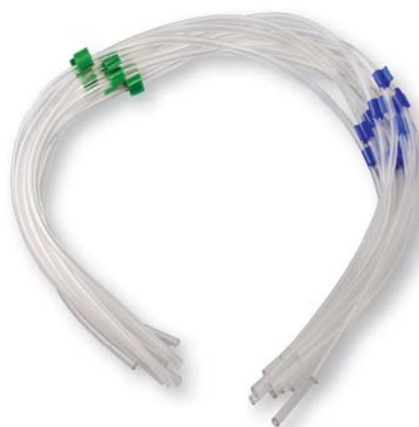
Description	Part Number
Tubing and gas connectors (44302072 & 44302077)	MM175055



MM175055
Tubing and Gas Connectors

Peristaltic Pump Tubing

Description	Part Number
2-stop Tygon pump tubing, 1.30 mm ID, 151 mm bridge distance (grey/grey), 12 pc (47501010)	Tube-PVCSD-51
2-stop Tygon pump tubing, 1.75 mm ID, 151 mm bridge distance (blue/green), 12 pc (47101005)	Tube-PVCSD-69



Tube-PVCSD-69
1.75 mm Pump
Tubing

Flared Peristaltic Pump Tubing

Description	Part Number
2-stop Tygon pump tubing, 0.38 mm ID, 2.0 mm flared (orange/green), 12 pc (47201037)	Tube-PVCSD-15-F
2-stop Tygon pump tubing, 0.89 mm ID, 2.0 mm flared, 151 mm bridge distance (orange/orange), 12 pc (47101003)	Tube-PVCSD-35-F
2-stop Tygon pump tubing, 1.30 mm ID, 2.0 mm flared, 151 mm bridge distance (grey/grey), 12 pc (47501010)	Tube-PVCSD-51-F



Tube-PVCSD-35-F
2.0 mm Flared
Pump Tubing

Visit www.meinhard.com for additional tubing options.

PLUS NEBULIZERS

with PFA FitKit Quick Connects

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 MEINHARD® Plus 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.



MEINHARD® SilQ+ high purity nebulizer
with PFA FitKit

Features for all MEINHARD® Plus Nebulizers:

- Self aspiration rate 0.5 mL/min with argon flow 1 L/min at 50 PSI (3.4 bar/345 kPa).
- Peristaltic pumped rate 0.1 mL/min to 3.0 mL/min.
- Includes FG Gas Quick Connect (PFA) and F2 Quick Connect with 0.5 mm i.d. ■ (orange marker) capillary, 70 cm.



Contact sales@meinhard.com
for more details and pricing

***Enhance Your Detection Limits,
Reduce Sample Contamination***



Quartz Nebulizers

Description	Part Number
MEINHARD® SilQ+ Ultra high purity quartz nebulizer, low internal volume, nominal uptake 0.5 mL/min, 1 mL/min @ 50 psi, with FG PFA gas fitting and F2 sample uptake line (See page 33 for more information)	SILQ-50-A0.5
MEINHARD® Type A quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 2 mL/min, 1 L/min @ 30 psi	TQ-30-A2
MEINHARD® Type C concentric quartz nebulizer, polished, recessed (0.5 mm) capillary, low background, high solids, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TQ-30-C1



SILQ-50-A0.5
SilQ+ Quartz
Nebulizer

Glass Nebulizers

Description	Part Number
MEINHARD® Type C glass nebulizer, 1 mL/min, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 2 mL/min, 1 L/min @ 30 psi	TR-30-C2
MEINHARD® Type K glass nebulizer, lapped flush nozzle, high solids, recessed (0.5 mm) capillary, nominal uptake 2 mL/min, 0.7 mL/min @ 30 psi	TR-30-K2
MEINHARD® Type K glass nebulizer, lapped flush nozzle, recessed (0.5 mm) capillary, high solids, nominal uptake 3 mL/min, 0.7 L/min @ 30 psi	TR-30-K3



TR-30-C2
Type A Glass
Nebulizer

PFA Nebulizer

Description	Part Number
MicroFlow PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME2040



ME2040
PFA-ST Nebulizer

Poly-Pro Nebulizer

Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME4040



ME4040
PolyPro-ST Nebulizer

F0 Encapsulated Micro Tubing

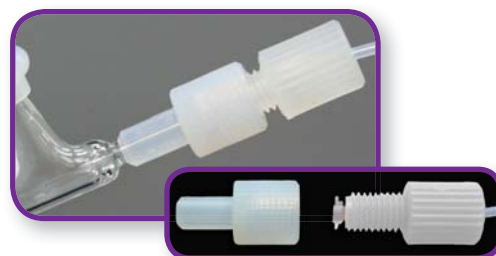
Description	Part Number
F0 Encapsulated micro tubing for low uptake rates from 0.1 to 0.5 mL/min and the lowest internal volume of any nebulizer. Includes 0.25 mm i.d. ■ (green marker) 70 cm long micro capillary.	F0-25



F0-25
F0 Encapsulated Micro Tubing

F1 Detachable Capillary

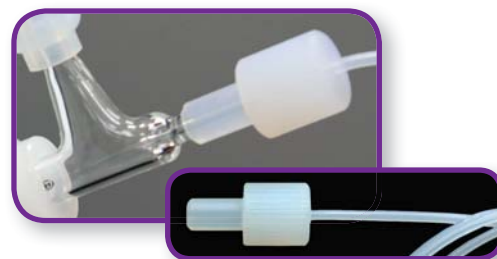
Description	Part Number
F1 Detachable capillary for a wide range of applications. Includes 0.80 mm i.d. ■ (blue marker) 70 cm long capillary.	F1-80



F1-80
F1 Detachable Capillary

F2 Standard PFA Integrated Capillary

Description	Part Number
F2 Standard integrated capillary for self-aspiration or pumping. Includes 0.5 mm i.d. ■ (orange marker) 70 cm long capillary.	F2-50



F2-50
F2 Integrated Capillary

FitKit 3T

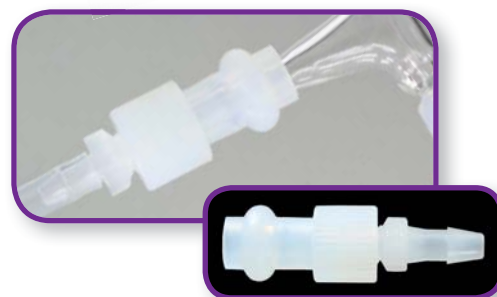
Description	Part Number
FitKit F5 for standard MEINHARD® nebulizer, standard integrated capillary, 0.50 mm ID (orange marker) x 70 cm PTFE	F5-50



F5-50
FitKit F5

FG Gas Quick Connect for MEINHARD® Nebulizers

Description	Part Number
FG Gas Quick Connect for MEINHARD® Nebulizers with maria for both small bore and standard bore nebulizers.	FG



FG
FG Gas Quick Connect

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers	PRL-02

(See page 83 for more information)



PRL-02
Pearl Nebulizer Cleaner

pergo Argon Nebulizer Gas Humidifier

Description	Part Number
pergo argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01
pergo argon high solids accessory including MEINHARD® Type A Plus high performance nebulizer.	PRG-01-MAPlus

(See page 21 for more information)



PRG-01
pergo High Solids Accessory

Spray Chambers

Description	Part Number
Pyrex Scott Type spray chamber, radial (120-3751)	ML155025
Pyrex Scott Type spray chamber, axial (318-00049)	ML155055



ML155025
Pyrex Spray Chamber

Cyclonic Spray Chambers

Description	Part Number
Cyclonic spray chamber, radial, o-rings for 6 mm nebulizer (120-00475-2)	ML155053
Pyrex cyclonic spray chamber, radial, o-rings for 6 mm nebulizer (120-00475-1)	ML155054
Pyrex cyclonic spray chamber for Hildebrand Grid, axial (120-00461-2)	ML155058
Cyclonic spray chamber for Hildebrand Grid, with baffle, axial (120-00461-1)	ML155059



ML155059
Cyclonic Spray Chamber

Quartz One-Piece Torches with Ball Joint

Description	Part Number
Quartz torch, axial, fixed 2.5 mm injector, 187 mm length (318-00062)	ML155062
Quartz torch, axial, direct-reading echelle, aqueous, 160 mm length (318-00064)	ML155064
Quartz torch, dual view direct-reading echelle, aqueous (318-00065)	ML155065
Quartz torch, dual view, DURA (120-00496-1)	ML155066
Quartz torch, radial, fixed 1.5 mm injector (does not include tubing and fittings) (120-00336-1)	ML155020
Quartz torch, radial, fixed 1.0 mm injector (does not include tubing and fittings) (120-00336-2)	ML155022
Quartz torch, axial, direct-reading echelle, aqueous, fixed 2.5 mm injector (does not include tubing and fittings) (120-00336-3)	ML155023



ML155064
Quartz One-Piece Torch

Quartz Torches, Demountable Injector

Description	Part Number
Quartz torch, axial, demountable, direct-reading echelle (318-00069)	ML155069
Quartz torch, axial, demountable, dual view direct-reading echelle (318-00070)	ML155070
Quartz torch, radial, demountable (318-0001)	ML155043



ML155070
Quartz Torch

Tubing and Quick Disconnects

Description	Part Number
PVC tubing and quick disconnects for Leeman torch	MM155100

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

Purge Tubes

Description	Part Number
Purge tube, axial, DV Profile (318-00066)	MP155066
Purge tube, radial, DV Profile (318-00067)	MP155067
Purge tube, radial, Profile (318-00068)	MP155068



MP155067
Purge Tube

2-Stop PVC Peristaltic Pump Tubing

Description	Part Number
2-stop PVC pump tubing, flared, 0.51 mm ID, (orange/yellow), 12 pc (309-00069-1)	Tube-PVCSD-20-F
2-stop PVC pump tubing, flared, 0.76 mm ID, (black/black), 12 pc (309-00069-7)	Tube-PVCSD-30-F
2-stop PVC pump tubing, flared, 1.14 mm ID, (red/red), 12 pc (309-00069-4)	Tube-PVCSD-45-F



Tube-PVCSD-20-F
2-stop PVC
Pump Tubing

2-Stop SolventFlex Peristaltic Pump Tubing

Description	Part Number
2-stop SolventFlex pump tubing, 0.51 mm ID, (orange/yellow), 12 pc (309-00069-2)	Tube-SolFSD-20
2-stop SolventFlex pump tubing, 0.76 mm ID, (black/black), 12 pc (309-00069-8)	Tube-SolFSD-30
2-stop SolventFlex pump tubing, 1.14 mm ID, (red/red), 12 pc (309-00069-5)	Tube-SolFSD-45



Tube-SolFSD-30
2-stop SolventFlex
Pump Tubing

2-Stop Viton Peristaltic Pump Tubing

Description	Part Number
2-stop Viton pump tubing, 0.51 mm ID, (orange/yellow), 12 pc (309000693)	Tube-Viton-20
2-stop Viton pump tubing, 1.14 mm ID, (red/red), 12 pc (309000696)	Tube-Viton-45



Tube-Viton-20
2-stop Viton Pump Tubing

Visit www.meinhard.com for additional tubing options.

Thermo Element 1, 2, XR & Neptune

Quartz Nebulizers

Description	Part Number
MEINHARD® SiQ+ Ultra high purity quartz nebulizer, low internal volume, nominal uptake 0.5 mL/min, 1 mL/min @ 50 psi, with FG PFA gas fitting and F2 sample uptake line (See page 33 for more information)	SILQ-50-A0.5
MEINHARD® TQ+ quartz nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi (See page 33 for more information)	TQP-50-A0.5
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi	TQ-30-A0.5
MEINHARD® Type A quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 1 mL/min, 1 L/min @ 30 psi (1110720)	TQ-30-A1
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi	TQ-50-A0.5
MEINHARD® Type A quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 1 mL/min, 1 L/min @ 50 psi	TQ-50-A1



TQ-30-A1
Type A Quartz
Nebulizer

Glass Nebulizers

Description	Part Number
MEINHARD® TR+ glass nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi (See page 33 for more information)	TRP-50-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi	TR-30-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TR-30-A1
MEINHARD® Type A glass nebulizer, lapped flush nozzle, low cost, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi	TR-50-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, low cost, high sensitivity, nominal uptake 1 mL/min, 1 L/min @ 50 psi	TR-50-A1



TR-50-A1
Type A Glass
Nebulizer

PFA Nebulizer

Description	Part Number
MicroFlow PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME2040



ME2040
PFA-ST Nebulizer

Poly-Pro Nebulizer

Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME4040



ME4040
PolyPro-ST Nebulizer

Nebulizer Gas Quick Connects

Description	Part Number
Gas Quick Connect for MEINHARD® Nebulizers with PFA-Press Fit for 4 mm tubing. Forms a tight seal over the maria on the sidearm of the nebulizer.	F4
Element/Neptune ICPMS Nebulizer Gas Quick Connect with PFA-Press Fit for 4 mm tubing. Connects to the instrument.	F4-52



F4
Nebulizer Gas Quick Connect

(See page 102 for more information)

PFA Nebulizers with Integrated Capillaries

Description	Part Number
PFA-20 MicroFlow Nebulizer with integrated capillary, 20µL/min measured self-aspiration rate (@1L/m Ar)	ME2020
PFA-50 MicroFlow Nebulizer with integrated capillary, 50µL/min measured self-aspiration rate (@1L/m Ar)	ME2000
PFA-100 MicroFlow Nebulizer with integrated capillary, 100µL/min measured self-aspiration rate (@1L/m Ar)	ME2002
PFA-200 MicroFlow Nebulizer with integrated capillary, 200µL/min measured self-aspiration rate (@1L/m Ar)	ME2003
PFA-400 MicroFlow Nebulizer with integrated capillary, 400µL/min measured self-aspiration rate (@1L/m Ar)	ME2005



ME2020
PFA-20 Nebulizer with
Integrated Capillary

PFA Nebulizers with Integrated Probes

Description	Part Number
PFA-20 MicroFlow Nebulizer with integrated autosampler probe (carbon fiber support), 20µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20203503100
PFA-50 MicroFlow Nebulizer with integrated autosampler probe (carbon fiber support), 50µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20003503100
PFA-100 MicroFlow Nebulizer with integrated autosampler probe (carbon fiber support), 100µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20023503100
PFA-200 MicroFlow Nebulizer with integrated autosampler probe (carbon fiber support), 200µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20033503100
PFA-400 MicroFlow Nebulizer with integrated autosampler probe (carbon fiber support), 400µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20053503100
PFA-20 MicroFlow Nebulizer with integrated autosampler probe (ulterm support), 20µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20203505100
PFA-50 MicroFlow Nebulizer with integrated autosampler probe (ulterm support), 50µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20003505100
PFA-100 MicroFlow Nebulizer with integrated autosampler probe (ulterm support), 100µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20023505100
PFA-200 MicroFlow Nebulizer with integrated autosampler probe (ulterm support), 200µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20033505100
PFA-400 MicroFlow Nebulizer with integrated autosampler probe (ulterm support), 400µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20053505100



ME20023503100
PFA-100 Nebulizer with
Integrated Probe

PFA Sample Capillaries for ST Nebulizers

Description	Part Number
Self-aspirating sample capillary for ST nebulizer, 0.15 mm ID (red marker), 20µL/min measured self-aspiration rate (@1L/m Ar)	ME2045
Self-aspirating sample capillary for ST nebulizer, 0.20 mm ID (purple marker), 50µL/min measured self-aspiration rate (@1L/m Ar)	ME2043
Self-aspirating sample capillary for ST nebulizer, 0.25 mm ID (green marker), 100µL/min measured self-aspiration rate (@1L/m Ar)	ME2042
Self-aspirating sample capillary for ST nebulizer, 0.30 mm ID (yellow marker), 200µL/min measured self-aspiration rate (@1L/m Ar)	ME2047
Self-aspirating sample capillary for ST nebulizer, 0.50 mm ID (orange marker), 400µL/min measured self-aspiration rate (@1L/m Ar)	ME2041
Self-aspirating sample capillary for ST nebulizer, 0.80 mm ID (blue marker), 700µL/min measured self-aspiration rate (@1L/m Ar)	ME2044
Self-aspirating sample capillary for ST nebulizer, 1.00 mm ID (gray marker), 1mL/min measured self-aspiration rate (@1L/m Ar)	ME2049



ME2042
PFA Sample Capillary

Thermo Element 1, 2, XR & Neptune

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers	PRL-02

(See page 83 for more information)



PRL-02
Pearl Nebulizer Cleaner

Jacketed Spray Chamber

Description	Part Number
Quartz spray chamber, jacketed for coolant, threaded port connections (1120900)	ML185018



ML185018
Jacketed Spray Chamber

PFA 47mm Spray Chamber

Description	Part Number
PFA 47 mm PureChamber and PFA Purecap Endcap, drain line included	ME20440002



ME20440002
PFA 47mm Spray Chamber

Quartz One-Piece Torches

Description	Part Number
Quartz torch, 1.0 mm fixed injector	ML185006
Quartz torch, 1.5 mm fixed injector	ML185007
Quartz torch, 2.0 mm fixed injector	ML185008



ML185007
Quartz Torch with
1.5 mm Injector

Quartz Torches, Demountable Injector

Description	Part Number
Quartz torch, axial, demountable (1091250)	ML185010



ML185010
Quartz Torch

O-Ring-Free Quartz Torch

Description	Part Number
O-ring-free quartz torch, axial, demountable	ME10021000



ME10021000
O-ring-free Quartz Torch

Torch Shields / Screens

Description	Part Number
Pt guard / shield torch (1125680)	MC-25680
Platinum torch guard shield, 84 mm, platinum ring diameter 20 mm (1126640)	MC-26640



MC-26640
Platinum Torch Shield

Quartz Extension

Description	Part Number
Quartz extension	ML185033

Quartz Collar / Insulator

Description	Part Number
Quartz collar / insulator, 25 mm	ML185026



ML185026
Quartz Collar / Insulator

Quartz Collar / Sleeve

Description	Part Number
Quartz collar / sleeve, 60 mm (1136500)	ML185025



ML185025
Quartz Collar / Sleeve

Quartz Injectors with O-Ring Ball Joint

Description	Part Number
Quartz injector with o-ring ball joint, 1.0 mm (does not include adapter) (1130680)	ML185040
Quartz injector with o-ring ball joint, 1.5 mm (does not include adapter)	ML185041
Quartz injector with o-ring ball joint, 1.8 mm (does not include adapter) (1122800)	ML185042
Quartz injector with o-ring ball joint, 2.0 mm (does not include adapter)	ML185043



ML185041
Quartz Injector

HF Resistant Sample Intro Kits

Description	Part Number
Complete HF-resistant sample introduction kit. Includes a PFA-ST Nebulizer, PFA PureCap endcap with additional gas port, PFA spray chamber, 1.8 mm sapphire injector, platinum shield disc and quartz torch.	ME2180147129
Complete high purity sample introduction kit. Includes two PFA-100 MicroFlow Nebulizers, PFA PureCap endcap with additional gas port, PFA spray chamber, platinum injector, platinum shield disc and quartz torch.	ME2181147119



ME2181147119
HF Resistant Sample Intro Kit

Thermo Element 1, 2, XR & Neptune

pergo Argon Nebulizer Gas Humidifier

Description	Part Number
pergo argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01
pergo argon high solids accessory including MEINHARD® Type A Plus high performance nebulizer	PRG-01-MAPlus

(See page 21 for more information)



PRG-01
pergo High Solids Accessory

Pipette Tips

Description	Part Number
100 µL PFA PureTip pipette tips, pre-cleaned, pack of 10 (N0777394)	ME70000101
1000 µL PFA PureTip pipette tips, pre-cleaned, pack of 10 (N0777395)	ME70001001



ME70000101 & ME70001001
Pipette Tips

Copper Load Coils

Description	Part Number
Copper RFPP generator load coil for Thermo Neptune/Element II	MC-10780
Copper seren load coil for Thermo Neptune/Element II, XR	MC-39230



MC-39230
Seren Load Coil

Electron Multipliers

Description	Part Number
ETP Electron Multiplier, Thermo Element II (1114170)	MC-14170
ETP Magnetic Sector Multiplier, Thermo MAT 262, Neptune, Triton	MC-AF150HM9
MasCom Electron Multiplier, Thermo Element II (post 03/2004) (1152700)	MC-52700
ETP Electron Multiplier, Thermo Element I (1022600)	MC-22600



MC-52700
Electron Multiplier

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

Sampling Cones

Description	Part Number
Ni Jet sampler cone (1260630)	MC-60630
Ni sample cone, Nicone TM, Cu base (3600812)	MC-00812
Ni sampler cone (100% Ni) (1044530)	MC-44530
Al sampler cone (100% Al) (1044530-Al)	MC-44530-Al
Pt sampler, Ni core (1067501)	MC-67501
Pt sampler cone (3601289)	MC-01289
Gasket, graphite for sampler, pack of 3 (3004382)	MC-04382
Gasket, graphite for sampler, holes, 3 pk (67.0109.00)	MC-10900



MC-60630
Nickel Sampler Cone

Skimmer Cones

Description	Part Number
Ni skimmer cone (1067600)	MC-67600
Al skimmer cone (1067600-Al)	MC-67600-Al
Ni skimmer cone, insert ready (1311870)	MC-11870
Ni X skimmer cone (1142160)	MC-42160
Pt skimmer cone, insert ready (1324540)	MC-24540
Pt X skimmer, 6mm (1142150)	MC-42150



MC-42160
Nickel Skimmer Cone

Cone Cleaning Kit & Detergent

Description	Part Number
Cone Cleaning Kit includes: Course & Fine Alumina Powder, Diamond Abrasive Paste, Synthetic fiber, lint-free cloths, Wooden cotton swabs (qty 50), Foam Tipped ESD Swabs (qty 50) and Magnifier	MC-MNTKIT1
Citranox Detergent, contains acid ingredients for high-performance removal of metal oxides, salts and inorganic residues combined with full detergent capability. Used on soft metals. 1 gallon	CitranoxDetergent



2-Stop PVC Peristaltic Pump Tubing

Description	Part Number
2-stop PVC pump tubing, 1.30 mm ID, (gray/gray), 12 pc	Tube-PVCSD-51
2-stop PVC pump tubing, flared, 0.13 mm ID, (orange/black), 12 pc	Tube-PVCSD-051-F
2-stop PVC pump tubing, flared, 0.51 mm ID, (orange/yellow), 12 pc	Tube-PVCSD-20-F



Visit www.meinhard.com for additional tubing options.

Glass Nebulizers

Description	Part Number
MEINHARD® Type K glass nebulizer, lapped flush nozzle, high solids, recessed (0.5 mm) capillary, nominal uptake 2 mL/min, 0.7 mL/min @ 30 psi (842312051431)	TR-30-K2
MEINHARD® Type A glass nebulizer, lapped flush nozzle, low cost, high sensitivity, nominal uptake 2 mL/min, 1 L/min @ 50 psi	TR-50-A2
MEINHARD® Type C glass nebulizer, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 2 mL/min, 1 L/min @ 50 psi (842312051331)	TR-50-C2



TR-30-K2
Type C Glass
Nebulizer

PFA Nebulizer

Description	Part Number
MicroFlow PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME2040



ME2040
PFA-ST Nebulizer

Poly-Pro Nebulizer

Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME4040



ME4040
PolyPro-ST Nebulizer

PEEK Nebulizer

Description	Part Number
PEEK MiraMist nebulizer (842312051471). Includes an argon line and sample capillary.	PMM4000



PMM4000
PEEK MiraMist Nebulizer

V-Groove Nebulizer

Description	Part Number
V-Groove nebulizer, Noordermeer, 6 mm o.d., 30 psi (824312051321)	MP080963



MP080963
V-Groove Nebulizer

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers	PRL-02



PRL-02
Pearl Nebulizer Cleaner

(See page 83 for more information)

Cyclonic Spray Chambers

Description	Part Number
iCAP 6x00 Pyrex cyclonic spray chamber, no baffle (842312051411)	ML128010
iCAP 6x00 Pyrex cyclonic spray chamber, no baffle with Easy-Seal threaded nebulizer inlet and PFA cap	ML128010ES
iCAP 6x00 Pyrex cyclonic spray chamber, baffled (842312051311)	ML128012
iCAP 6x00 Pyrex cyclonic spray chamber, baffled, with Easy-Seal threaded nebulizer inlet and PFA cap	ML128012ES



ML128010
Cyclonic Spray
Chamber

Right Angle Spray Chamber Adapter

Description	Part Number
Right angle spray chamber adapter for iCAP 6x00 and Duo (842312051251)	ML128021



ML128021
Right Angle Adapter

Straight Spray Chamber Adapter

Description	Part Number
Straight spray chamber adapter for iCAP 6x00, radial, (842312051151)	ML128020



ML128020
Straight Adapter

Internal Liquid Fitting

Description	Part Number
Internal liquid fitting for spray chamber drain	MP500QD

pergo Argon Nebulizer Gas Humidifier

Description	Part Number
pergo argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01
pergo argon high solids accessory including MEINHARD® Type A Plus high performance nebulizer.	PRG-01-MAPlus

(See page 21 for more information)



PRG-01
pergo High Solids Accessory

Thermo iCAP 6300, 6500, 7200, 7400, 7600, DUO & Radial

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

Torch Window

Description	Part Number
Torch Window for iCAP Duo, radial (842312051591)	ML128073



ML128073
Torch Bonnet

Quartz Torches, Demountable Injector

Description	Part Number
Duo quartz torch for iCAP 6x00 (842312051241)	ML128007
EMT duo quartz torch for iCAP 6x00 (842312051841)	ML128050
Quartz EMT torch for iCAP 6x00, radial (842312051741)	ML128052
Quartz torch for iCAP 6x00, radial (842312051141)	ML128005



ML128050
Quartz Torch

Quartz Center Tubes

Description	Part Number
Quartz 1.0 mm center tube for iCAP 6x00 (842312051341)	ML128040
Quartz 1.5 mm center tube for iCAP 6x00 (842312051351)	ML128041
Quartz 2.0 mm center tube for iCAP 6x00 (842312051371)	ML128042
Quartz 1.0 mm center tube for iCAP 6x00, EMT (842312051941)	ML128070
Quartz 1.5 mm center tube for iCAP 6x00, EMT (842312051951)	ML128071
Quartz 2.0 mm center tube for iCAP 6x00, EMT (842312051971)	ML128072



ML128040
Quartz Center Tube

2-Stop PVC Peristaltic Pump Tubing

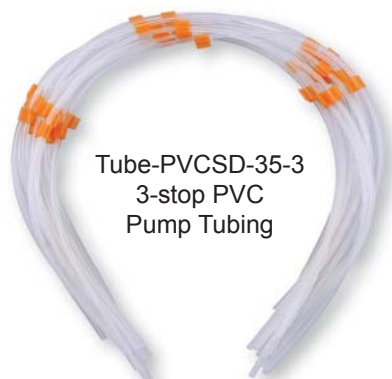
Description	Part Number
2-stop PVC pump tubing, 0.64 mm ID, (orange/white), 12 pc (842312051511)	Tube-PVCSD-25
2-stop PVC pump tubing, 1.02 mm ID, (white/white), 12 pc (842312051521)	Tube-PVCSD-40
2-stop PVC pump tubing, flared, 0.64 mm ID, (orange/white), 12 pc	Tube-PVCSD-25-F



Tube-PVCSD-40
2-stop PVC
Pump Tubing

3-Stop PVC Peristaltic Pump Tubing

Description	Part Number
3-stop PVC pump tubing, 0.89 mm ID, (orange/orange/orange), 12 pc (13017700)	Tube-PVCSD-35-3
3-stop PVC pump tubing, 1.14 mm ID, (red/red/red), 12 pc (13107701)	Tube-PVCSD-45-3
3-stop PVC pump tubing, flared, 0.89 mm ID, (orange/orange/orange), 12 pc	Tube-PVCSD-35-3-F



Tube-PVCSD-35-3
3-stop PVC
Pump Tubing

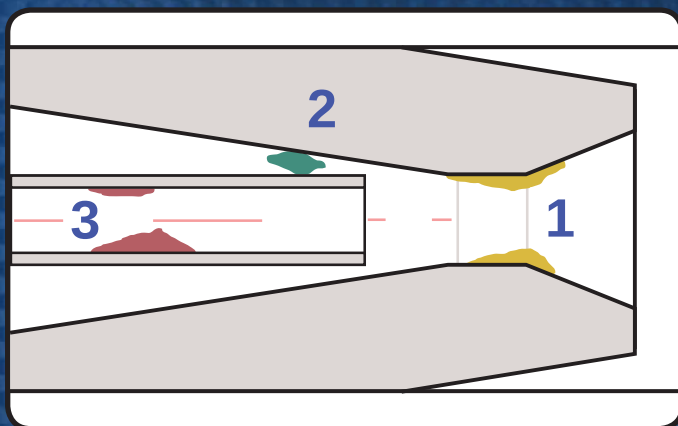
See pages 88-89 or visit www.meinhard.com for additional tubing options.

Pearl Nebulizer Cleaner

For all quartz and glass concentric nebulizers

With this device a cleaning solution can be pumped manually in reverse, through both the sample and gas passages. Favorite cleaning solutions are - Sigma-Aldrich RBS-25 diluted about 20x, Deconex similarly diluted; - or - either of these, but with the addition of 10% methanol. When the wet-cleaning process is finished, rinse with DI water and flush dry with compressed air or inert gas.

The diagram below shows the 3 main types of blockages that can occur in pneumatic concentric nebulizers.



#1 - Deposits at this point are typically composed of salts coming out of solution. Such deposits can usually be removed by repeated rinsing of a concentric nebulizer with an appropriate solvent.

#2 - This sort of obstruction is the worst type, capable of breaking the tip of a glass capillary. If the deposit is insoluble, the only sure way to remove it is with a PEARL cleaner.

#3 - Deposits inside the capillary may go unnoticed for quite a while, particularly if the sample is pumped. Paper and textile fibers are often at fault.



PRL-02
Pearl Nebulizer
Cleaner



Using the PEARL cleaner

Quartz Nebulizers

Description	Part Number
MEINHARD® SiIQ+ Ultra high purity quartz nebulizer, low internal volume, nominal uptake 0.5 mL/min, 1 mL/min @ 50 psi, with FG PFA gas fitting and F2 sample uptake line (See page 33 for more information)	SILQ-50-A0.5
MEINHARD® TQ+ quartz nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi (See page 31 for more information)	TQP-50-A0.5
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi	TQ-50-A0.5



SILQ-50-A0.5
SiIQ+ Quartz
Nebulizer

Glass Nebulizers

Description	Part Number
MEINHARD® TR+ glass nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi (1161870) (See page 33 for more information)	TRP-50-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, low cost, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi	TR-50-A0.5



TR-50-A0.5
Glass Nebulizer

PFA Nebulizers

Description	Part Number
MicroFlow PFA-ST nebulizer. Includes PFA gas line and two capillaries, 100 µL/min & 400 µL/min. (1317090)	ME204073
PFA-LC, MicroFlow PFA nebulizer, includes ES-2051-0150 150 µm i.d. connection line, ES-2543 CTFE Union, ES-2045 0.15 mm capillary, and nebulizer gas fittings kit. (1162030)	ME205052



ME204073
PFA-ST Nebulizer

PFA Nebulizers with Integrated Probes

Description	Part Number
PFA-20 MicroFlow Nebulizer with integrated autosampler probe (carbon fiber support), 20µL/min measured self-aspiration rate (@1L/m Ar), 80cm	ME20203503080
PFA-50 MicroFlow Nebulizer with integrated autosampler probe (carbon fiber support), 50µL/min measured self-aspiration rate (@1L/m Ar), 80cm	ME20003503080
PFA-100 MicroFlow Nebulizer with integrated autosampler probe (carbon fiber support), 100µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20023503100
PFA-200 MicroFlow Nebulizer with integrated autosampler probe (carbon fiber support), 200µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20033503100
PFA-400 MicroFlow Nebulizer with integrated autosampler probe (carbon fiber support), 400µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20053503100
PFA-20 MicroFlow Nebulizer with integrated autosampler probe (ultem support), 20µL/min measured self-aspiration rate (@1L/m Ar), 80cm	ME20203505080
PFA-50 MicroFlow Nebulizer with integrated autosampler probe (ultem support), 50µL/min measured self-aspiration rate (@1L/m Ar), 80cm	ME20003505080
PFA-100 MicroFlow Nebulizer with integrated autosampler probe (ultem support), 100µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20023505100
PFA-200 MicroFlow Nebulizer with integrated autosampler probe (ultem support), 200µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20033505100
PFA-400 MicroFlow Nebulizer with integrated autosampler probe (ultem support), 400µL/min measured self-aspiration rate (@1L/m Ar), 100cm	ME20053505100



ME20023503100
PFA-100 Nebulizer with
Integrated Probe

PFA Sample Capillaries for ST Nebulizers

Description	Part Number
Self-aspirating sample capillary for ST nebulizer, 0.15 mm ID (red marker), 20µL/min measured self-aspiration rate (@1L/m Ar)	ME2045
Self-aspirating sample capillary for ST nebulizer, 0.20 mm ID (purple marker), 50µL/min measured self-aspiration rate (@1L/m Ar)	ME2043
Self-aspirating sample capillary for ST nebulizer, 0.25 mm ID (green marker), 100µL/min measured self-aspiration rate (@1L/m Ar)	ME2042
Self-aspirating sample capillary for ST nebulizer, 0.30 mm ID (yellow marker), 200µL/min measured self-aspiration rate (@1L/m Ar)	ME2047
Self-aspirating sample capillary for ST nebulizer, 0.50 mm ID (orange marker), 400µL/min measured self-aspiration rate (@1L/m Ar)	ME2041
Self-aspirating sample capillary for ST nebulizer, 0.80 mm ID (blue marker), 700µL/min measured self-aspiration rate (@1L/m Ar)	ME2044
Self-aspirating sample capillary for ST nebulizer, 1.00 mm ID (gray marker), 1mL/min measured self-aspiration rate (@1L/m Ar)	ME2049



ME2042
Sample Capillary

Gas Line

Description	Part Number
Additional gas line	ME25021000



ME25021000
Additional Gas Line

Autosampler Probes

Description	Part Number
0.25mm ID SC-DX autosampler probe, carbon fiber support, 150 cm	ME50373505150
0.5mm ID SC-DX autosampler probe, carbon fiber support, 150 cm	ME50373505150



ME50373505150
Autosampler Probe

Cyclonic Spray Chambers

Description	Part Number
Quartz cyclonic spray chamber (1317080)	ML148030
PFA cyclonic spray chamber (1320260)	ME148032



ME148032
PFA Cyclonic Spray Chamber

Mini Cyclonic Spray Chamber

Description	Part Number
Quartz mini-cyclonic spray chamber (20 mL) with baffle, EasySeal inlet, threaded drain. Outlet is right-angle PFA with auxiliary gas inlet	ML148040



ML148040
Mini Cyclonic
Spray Chamber

PFA Elbow

Description	Part Number
PFA elbow with add gas port (1320270)	ME31500073L



Quartz Torch

Description	Part Number
Quartz torch (1230790)	ML148010



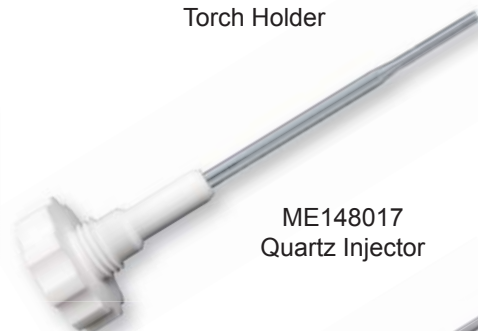
Torch Holder

Description	Part Number
Torch Holder (1231000)	MC-31000



Quartz Injectors

Description	Part Number
1.5 mm quartz injector	ME148015
2.0 mm quartz injector (1305640)	ME148016
2.5 mm quartz injector (1305600)	ME148017



Sapphire Injectors

Description	Part Number
1.5 mm sapphire injector	ME148051
1.8 mm sapphire injector (1323600)	ME148050
2.5 mm sapphire injector	ME148052



Platinum Injectors

Description	Part Number
1.0 mm platinum injector	ME148019
1.5 mm platinum injector	ME148020
2.0 mm platinum injector (1321200)	ME148018



Copper Load Coils

Description	Part Number
Copper load coil for Thermo (VG) iCAP-Q (1305260-Cu)	MC-05260
Silver plated copper load coil for Thermo (VG) iCAP-Q (1305260)	MC-05260-Ag

Sampling Cones

Description	Part Number
Ni sampler cone, Nicone TM, Cu base for iCAPQ and VG ExCell. (3600812)	MC-00812
Pt sampler cone (15.2mm) for iCAPQ and VG, all X. (3601289)	MC-01289



MC-00812
Ni Sampler Cone

Skimmer Cones

Description	Part Number
Ni skimmer cone for iCAPQ, insert ready. (1311870)	MC-11870
Pt skimmer cone for iCAPQ, insert ready. (1324540)	MC-24540



MC-11870
Ni Sampler Cone

Skimmer Cone Inserts

Description	Part Number
Nickel Skimmer Insert - 2.8 - High Sensitivity (1311880)	MC-11880
Nickel Skimmer Insert - 3.0 - Standard for A and C - High Matrix (1318470)	MC-18470
Nickel Skimmer Insert - 3.5 - High Matrix Tolerance (1318480)	MC-18480



MC-11880
Skimmer Insert

Pump Oil

Description	Part Number
Fomblin pump oil PFPE 1000mL (1319310)	MC-19310

Sampling Cone Gasket

Description	Part Number
Graphite Gasket for Sampler Cone with interface holes. 3 pack (1310900)	MC-10900H
Graphite Gasket for Sampler Cone. 3 pack (3004382)	MC-04382

MC-10900H
Sampling
Cone Gasket



Cone Cleaning Kit & Detergent

Description	Part Number
Cone Cleaning Kit includes: Course & Fine Alumina Powder, Diamond Abrasive Paste, Synthetic fiber, lint-free cloths, Wooden cotton swabs (qty 50), Foam Tipped ESD Swabs (qty 50) and Maginifier	MC-MNTKIT1
Citranox Detergent, contains acid ingredients for high-performance removal of metal oxides, salts and inorganic residues combined with full detergent capability. Used on soft metals. 1 gallon	CitranoxDetergent

MC-MNTKIT1
Cone Cleaning Kit



Electron Multiplier

Description	Part Number
Electron multiplier (SEM) iCAP Q (1299710)	MC-99710

3-Stop PVC Peristaltic Pump Tubing

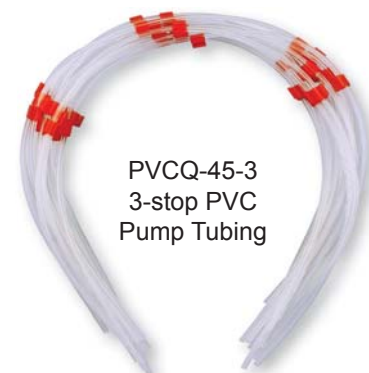
Description	Part Number
3-stop PVC pump tubing, 0.13 mm ID, (orange/black/orange), 12 pc	PVCQ-05-3
3-stop PVC pump tubing, flared, 0.13 mm ID, (orange/black/orange), 12 pc	PVCQ-05-3F
3-stop PVC pump tubing, 0.19 mm ID, (orange/red/orange), 12 pc	PVCQ-075-3
3-stop PVC pump tubing, flared, 0.19 mm ID, (orange/red/orange), 12 pc	PVCQ-075-3F
3-stop PVC pump tubing, 0.27 mm ID, (orange/blue/orange), 12 pc	PVCQ-10-3
3-stop PVC pump tubing, flared, 0.27 mm ID, (orange/blue/orange), 12 pc	PVCQ-10-3F
3-stop PVC pump tubing, 0.38 mm ID, (orange/green/orange), 12 pc	PVCQ-15-3
3-stop PVC pump tubing, flared, 0.38 mm ID, (orange/green/orange), 12 pc	PVCQ-15-3F
3-stop PVC pump tubing, 0.44 mm ID, (green/yellow/green), 12 pc	PVCQ-17-3
3-stop PVC pump tubing, flared 0.44 mm ID, (green/yellow/green), 12 pc	PVCQ-17-3F
3-stop PVC pump tubing, 0.51 mm ID, (orange/yellow/orange), 12 pc	PVCQ-20-3
3-stop PVC pump tubing, flared 0.51 mm ID, (orange/yellow/orange), 12 pc	PVCQ-20-3F
3-stop PVC pump tubing, 0.57 mm ID, (white/yellow/white), 12 pc	PVCQ-22-3
3-stop PVC pump tubing, flared 0.57 mm ID, (white/yellow/white), 12 pc	PVCQ-22-3F
3-stop PVC pump tubing, 0.64 mm ID, (orange/white/orange), 12 pc	PVCQ-25-3
3-stop PVC pump tubing, flared 0.64 mm ID, (orange/white/orange), 12 pc	PVCQ-25-3F
3-stop PVC pump tubing, 0.76 mm ID, (black/black/black), 12 pc	PVCQ-30-3
3-stop PVC pump tubing, flared 0.76 mm ID, (black/black/black), 12 pc	PVCQ-30-3F
3-stop PVC pump tubing, 0.89 mm ID, (orange/orange/orange), 12 pc	PVCQ-35-3
3-stop PVC pump tubing, flared 0.89 mm ID, (orange/orange/orange), 12 pc	PVCQ-35-3F
3-stop PVC pump tubing, 0.95 mm ID, (white/black/white), 12 pc	PVCQ-37-3
3-stop PVC pump tubing, flared 0.95 mm ID, (white/black/white), 12 pc	PVCQ-37-3F
3-stop PVC pump tubing, 1.02 mm ID, (white/white/white), 12 pc	PVCQ-40-3
3-stop PVC pump tubing, flared 1.02 mm ID, (white/white/white), 12 pc	PVCQ-40-3F
3-stop PVC pump tubing, 1.09 mm ID, (white/red/white), 12 pc	PVCQ-43-3
3-stop PVC pump tubing, flared 1.09 mm ID, (white/red/white), 12 pc	PVCQ-43-3F
3-stop PVC pump tubing, 1.14 mm ID, (red/red/red), 12 pc	PVCQ-45-3
3-stop PVC pump tubing, flared 1.14 mm ID, (red/red/red), 12 pc	PVCQ-45-3F
3-stop PVC pump tubing, 1.22 mm ID, (red/gray/red), 12 pc	PVCQ-48-3
3-stop PVC pump tubing, flared 1.22 mm ID, (red/gray/red), 12 pc	PVCQ-48-3F
3-stop PVC pump tubing, 1.30 mm ID, (gray/gray/gray), 12 pc	PVCQ-51-3
3-stop PVC pump tubing, 1.42 mm ID, (yellow/yellow/yellow), 12 pc	PVCQ-56-3
3-stop PVC pump tubing, 1.52 mm ID, (yellow/blue/yellow), 12 pc	PVCQ-60-3
3-stop PVC pump tubing, 1.65 mm ID, (blue/blue/blue), 12 pc	PVCQ-65-3
3-stop PVC pump tubing, 1.75 mm ID, (blue/green/blue), 12 pc	PVCQ-69-3
3-stop PVC pump tubing, 1.85 mm ID, (green/green/green), 12 pc	PVCQ-73-3
3-stop PVC pump tubing, 2.06 mm ID, (purple/purple/purple), 12 pc	PVCQ-81-3
3-stop PVC pump tubing, 2.29 mm ID, (purple/black/purple), 12 pc	PVCQ-90-3
3-stop PVC pump tubing, 2.54 mm ID, (purple/orange/purple), 12 pc	PVCQ-100-3
3-stop PVC pump tubing, 2.79 mm ID, (purple/white/purple), 12 pc	PVCQ-110-3
3-stop PVC pump tubing, 3.17 mm ID, (black/white/black), 12 pc	PVCQ-125-3



PVCQ-075-3
3-stop PVC
Pump Tubing



PVCQ-35-3
3-stop PVC
Pump Tubing



PVCQ-45-3
3-stop PVC
Pump Tubing

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

3-Stop Solva Peristaltic Pump Tubing

Description	Part Number
3-stop solva pump tubing, flared 0.13 mm ID, (orange/black/orange), 12 pc	SOLQ-05-3F
3-stop solva pump tubing, flared 0.19 mm ID, (orange/red/orange), 12 pc	SOLQ-075-3F
3-stop solva pump tubing, flared 0.27 mm ID, (orange/blue/orange), 12 pc	SOLQ-10-3F
3-stop solva pump tubing, flared 0.38 mm ID, (orange/green/orange), 12 pc	SOLQ-15-3F
3-stop solva pump tubing, flared 0.44 mm ID, (green/yellow/green), 12 pc	SOLQ-17-3F
3-stop solva pump tubing, flared 0.51 mm ID, (orange/yellow/orange), 12 pc	SOLQ-20-3F
3-stop solva pump tubing, flared 0.57 mm ID, (white/yellow/white), 12 pc	SOLQ-22-3F
3-stop solva pump tubing, flared 0.64 mm ID, (orange/white/orange), 12 pc	SOLQ-25-3F
3-stop solva pump tubing, 0.76 mm ID, (black/black/black), 12 pc	SOLQ-30-3
3-stop solva pump tubing, flared 0.76 mm ID, (black/black/black), 12 pc	SOLQ-30-3F
3-stop solva pump tubing, 0.89 mm ID, (orange/orange/orange), 12 pc	SOLQ-35-3
3-stop solva pump tubing, flared 0.89 mm ID, (orange/orange/orange), 12 pc	SOLQ-35-3F
3-stop solva pump tubing, 0.95 mm ID, (white/black/white), 12 pc	SOLQ-37-3
3-stop solva pump tubing, flared 0.95 mm ID, (white/black/white), 12 pc	SOLQ-37-3F
3-stop solva pump tubing, 1.02 mm ID, (white/white/white), 12 pc	SOLQ-40-3
3-stop solva pump tubing, flared 1.02 mm ID, (white/white/white), 12 pc	SOLQ-40-3F
3-stop solva pump tubing, 1.09 mm ID, (white/red/white), 12 pc	SOLQ-43-3
3-stop solva pump tubing, flared 1.09 mm ID, (white/red/white), 12 pc	SOLQ-43-3F
3-stop solva pump tubing, 1.14 mm ID, (red/red/red), 12 pc	SOLQ-45-3
3-stop solva pump tubing, flared 1.14 mm ID, (red/red/red), 12 pc	SOLQ-45-3F
3-stop solva pump tubing, 1.22 mm ID, (red/gray/red), 12 pc	SOLQ-48-3
3-stop solva pump tubing, 1.30 mm ID, (gray/gray/gray), 12 pc	SOLQ-51-3
3-stop solva pump tubing, 1.42 mm ID, (yellow/yellow/yellow), 12 pc	SOLQ-56-3
3-stop solva pump tubing, 1.52 mm ID, (yellow/blue/yellow), 12 pc	SOLQ-60-3
3-stop solva pump tubing, 1.65 mm ID, (blue/blue/blue), 12 pc	SOLQ-65-3
3-stop solva pump tubing, 1.75 mm ID, (blue/green/blue), 12 pc	SOLQ-69-3
3-stop solva pump tubing, 1.85 mm ID, (green/green/green), 12 pc	SOLQ-73-3
3-stop solva pump tubing, 2.06 mm ID, (purple/purple/purple), 12 pc	SOLQ-81-3
3-stop solva pump tubing, 2.29 mm ID, (purple/black/purple), 12 pc	SOLQ-90-3
3-stop solva pump tubing, 2.54 mm ID, (purple/orange/purple), 12 pc	SOLQ-100-3
3-stop solva pump tubing, 2.79 mm ID, (purple/white/purple), 12 pc	SOLQ-110-3
3-stop solva pump tubing, 3.17 mm ID, (black/white/black), 12 pc	SOLQ-125-3



SOLQ-51-3
3-stop Santoprene
Pump Tubing



SOLQ-60-3
3-stop Santoprene
Pump Tubing

3-Stop Silicone Peristaltic Pump Tubing

Description	Part Number
3-stop silicone pump tubing, 0.51 mm ID, (orange/yellow/orange), 12 pc (132070)	Tube-SilQ-20-3
3-stop silicone pump tubing, 0.76 mm ID, (orange/yellow/orange), 12 pc (132080)	Tube-SilQ-30-3
3-stop silicone pump tubing, 1.29 mm ID, (gray/gray/gray), 12 pc (132090)	Tube-SilQ-51-3
3-stop silicone pump tubing, 2.79 mm ID, (purple/white/purple), 12 pc (132100)	Tube-SilQ-110-3

Visit www.meinhard.com for additional tubing options.

Quartz Nebulizers

Description	Part Number
MEINHARD® SiIQ+ Ultra high purity quartz nebulizer, low internal volume, nominal uptake 0.5 mL/min, 1 mL/min @ 50 psi, with FG PFA gas fitting and F2 sample uptake line (See page 33 for more information)	SILQ-50-A0.5
MEINHARD® TQ+ quartz nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi (See page 33 for more information)	TQP-50-A0.5
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi	TQ-30-A0.5
MEINHARD® Type A quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 1 mL/min, 1 L/min @ 30 psi (1110720)	TQ-30-A1
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 3 mL/min, 1 L/min @ 30 psi	TQ-30-A3
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi	TQ-50-A0.5



TQ-30-A3
Quartz Nebulizer

Glass Nebulizers

Description	Part Number
MEINHARD® TR+ glass nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi (See page 33 for more information)	TRP-50-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi	TR-30-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 1 mL/min, 1 L/min @ 30 psi (1201318)	TR-30-A1
MEINHARD® Type A glass nebulizer, lapped flush nozzle, low cost, high sensitivity, nominal uptake 3 mL/min, 1 L/min @ 30 psi (1040894)	TR-30-A3
MEINHARD® Type C glass nebulizer, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 3 mL/min, 1 L/min @ 30 psi	TR-30-C3



TR-30-A3
Glass Nebulizer

PFA Nebulizer

Description	Part Number
MicroFlow PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME2040



ME2040
PFA-ST Nebulizer

Poly-Pro Nebulizer

Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME4040



ME4040
PolyPro-ST Nebulizer

PEEK Nebulizer

Description	Part Number
PEEK MiraMist nebulizer. Includes an argon line and sample capillary.	PMM4000



PMM4000
PEEK MiraMist Nebulizer

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers	PRL-02

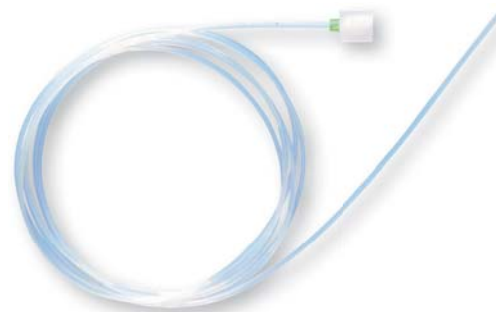
(See page 83 for more information)



PRL-02
Pearl Nebulizer Cleaner

PFA Sample Capillaries for ST Nebulizers

Description	Part Number
Self-aspirating sample capillary for ST nebulizer, 0.15 mm ID (red marker), 20µL/min measured self-aspiration rate (@1L/m Ar)	ME2045
Self-aspirating sample capillary for ST nebulizer, 0.20 mm ID (purple marker), 50µL/min measured self-aspiration rate (@1L/m Ar)	ME2043
Self-aspirating sample capillary for ST nebulizer, 0.25 mm ID (green marker), 100µL/min measured self-aspiration rate (@1L/m Ar)	ME2042
Self-aspirating sample capillary for ST nebulizer, 0.30 mm ID (yellow marker), 200µL/min measured self-aspiration rate (@1L/m Ar)	ME2047
Self-aspirating sample capillary for ST nebulizer, 0.50 mm ID (orange marker), 400µL/min measured self-aspiration rate (@1L/m Ar)	ME2041
Self-aspirating sample capillary for ST nebulizer, 0.80 mm ID (blue marker), 700µL/min measured self-aspiration rate (@1L/m Ar)	ME2044
Self-aspirating sample capillary for ST nebulizer, 1.00 mm ID (gray marker), 1mL/min measured self-aspiration rate (@1L/m Ar)	ME2049



ME2042
PFA Sample Capillary

Carbon Fiber Supported Autosampler Probes

Description	Part Number
0.25mm i.d. Carbon fiber support (125mm) SC-autosampler probe for ST nebulizers ~ 100 µL/min uptake rate, 80 cm capillary	ME50373250080
0.50mm i.d. Carbon fiber support (125mm) SC-autosampler probe for ST nebulizers ~ 400 µL/min uptake rate, 80 cm capillary	ME50373500080
0.25mm i.d. Carbon fiber support (150mm) SC-autosampler probe for ST nebulizers ~ 100 µL/min uptake rate, 100 cm capillary	ME50373250100
0.50mm i.d. Carbon fiber support (150mm) SC-autosampler probe for ST nebulizers ~ 400 µL/min uptake rate, 100 cm capillary	ME50373500100



ME50373250100
Autosampler Probe

HF Resistant Sample Intro Kits

Description	Part Number
Complete HF-resistant sample introduction kit. Includes a PFA-ST Nebulizer, PFA PureCap endcap with additional gas port, PFA spray chamber, 1.8 mm sapphire injector, platinum shield disc and quartz torch.	ME2190147029
Complete high purity sample introduction kit. Includes two PFA-100 MicroFlow Nebulizers, PFA PureCap endcap with additional gas port, PFA spray chamber, platinum injector, platinum shield disc and quartz torch.	ME2191147019



ME2191147019
Sample Intro Kit

Quartz Couplings

Description	Part Number
Quartz coupling, ball/socket, 90° for Scott spray chamber (3200727)	ML145032
Quartz coupling, ball/socket, 17° (3600169)	ML145025



ML145032
Quartz Coupling

Scott Spray Chamber

Description	Part Number
Quartz Scott spray chamber, jacketed for coolant (3200841)	ML145016



ML145016
Scott Spray Chamber

Conical Spray Chambers

Description	Part Number
Pyrex conical spray chamber, impact, jacketed (3204313)	ML145022
Quartz conical spray chamber, impact, jacketed (3600374)	ML145023
Quartz conical spray chamber, Peltier cooled (3600170)	ML145024
Quartz conical spray chamber, Peltier cooled, small drain (4600508)	ML145026



ML145023
Conical Spray Chamber

Cyclonic Spray Chamber

Description	Part Number
VG quartz cyclonic spray chamber (3600093)	ML145027

Internal Liquid Fitting

Description	Part Number
Internal liquid fitting for spray chamber drain	MP500QD

pergo Argon Nebulizer Gas Humidifier

Description	Part Number
<i>pergo</i> argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01
<i>pergo</i> argon high solids accessory including MEINHARD® Type A Plus high performance nebulizer.	PRG-01-MAPlus

(See page 21 for more information)



PRG-01
pergo High Solids
Accessory

Quartz One-Piece Torches with Ball Joint

Description	Part Number
Quartz torch with ball joint, axial, fixed 1.5 mm injector, 2 locator pins (3601145)	ML145050
Quartz torch, fixed 2 mm injector, 2 locator pins (3601147)	ME12030020
Quartz torch with ball joint, axial, fixed 1.5 mm injector, locator pin (3600969)	ML145011
Quartz torch with ball joint, axial, fixed 2 mm injector (3600791)	ML145012



ML145011
Quartz One-Piece Torch

Semi-Demountable Torch

Description	Part Number
Semi-demountable o-ring-free torch with sapphire injector, HF resistant	ME12021203

Quartz Torches, Demountable Injector

Description	Part Number
O-ring-free quartz torch with pin, demountable (3601146)	ML145051
Quartz torch, demountable, axial (3600970)	ML145010
ESI o-ring-free precision quartz torch, demountable, axial	ME12020301

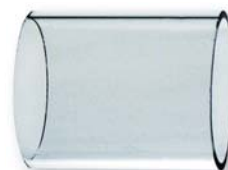


ME12020301
Quartz Torch

Torch Bonnet

Description	Part Number
Torch bonnet for XSERIES 2 (3601149)	ML145053

ML145053
Torch Bonnet



Plasma Screen

Description	Part Number
Silver plasma screen for XSERIES 2 torch (3601219)	MC-01219

MC-01219
Plasma Screen



O-Ring-Free Platinum Injectors

Description	Part Number
Platinum injector, 1.0 mm, o-ring-free.	ME12133100
Platinum injector, 1.5 mm, o-ring-free.	ME12133150
Platinum injector, 2.0 mm, o-ring-free.	ME12133200



ME12133200
Platinum Injector

O-Ring-Free Sapphire Injectors

Description	Part Number
Sapphire injector, 1.5 mm, o-ring-free. HF-resistant.	ME12033150
Sapphire injector, 1.8 mm, o-ring-free. HF-resistant.	ME12033180



ME12033180
Sapphire Injector

O-Ring-Free Quartz Injectors

Description	Part Number
Quartz injector, 1.0 mm, o-ring-free.	ME12333100
Quartz injector, 1.5 mm, o-ring-free.	ME12333150
Quartz injector, 2.0 mm, o-ring-free.	ME12333200
Quartz injector, 2.5 mm, o-ring-free.	ME12333250



ME12333150
Quartz Injector

Pipette Tips

Description	Part Number
100 µL PFA PureTip pipette tips, pre-cleaned, pack of 10 (N0777394)	ME70000101
1000 µL PFA PureTip pipette tips, pre-cleaned, pack of 10 (N0777395)	ME70001001



ME70000101 & ME70001001
Pipette Tips

PC³ Peltier Cooler

Description	Part Number
PC ³ Peltier cooler. Includes a quartz cyclonic spray chamber and PFA-ST nebulizer.	ME41906029

ME41906029
PC³ Peltier Cooler



PC³-LT Peltier Cooler

Description	Part Number
PC ³ -LT Peltier cooler, reaches -20° C. Includes a quartz cyclonic spray chamber and PFA-ST nebulizer.	ME91906029



ME91906029
PC³-LT Peltier Cooler

Copper Load Coil

Description	Part Number
Copper load coil for Thermo X-Series	MC-00473



MC-00473
Copper Load Coil

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

Nickel Cones

Description	Part Number
Ni skimmer cone for Thermo XSERIES2. (3600811)	MC-00811
Ni sampler cone for Thermo XSERIES2. (3600812)	MC-00812



MC-00812
Ni Sampler Cone

Copper Skimmer Adapter

Description	Part Number
Copper skimmer adapter with screws for Thermo XSERIES2. (3600813)	MC-00813



MC-00813
Copper Skimmer Adapter

Cone Cleaning Kit & Detergent

Description	Part Number
Cone Cleaning Kit includes: Course & Fine Alumina Powder, Diamond Abrasive Paste, Synthetic fiber, lint-free cloths, Wooden cotton swabs (qty 50), Foam Tipped ESD Swabs (qty 50) and Maginifier	MC-MNTKIT1
Citranox Detergent, contains acid ingredients for high-performance removal of metal oxides, salts and inorganic residues combined with full detergent capability. Used on soft metals. 1 gallon	CitranoxDetergent



MC-MNTKIT1
Cone Cleaning Kit

Electron Multiplier

Description	Part Number
MasCom Electron Multiplier, Thermo X-Series II (1244721)	MC-44721



MC-44721
Electron Multiplier

2-Stop PVC Peristaltic Pump Tubing

Description	Part Number
2-stop PVC pump tubing, 1.30 mm ID, (gray/gray), 12 pc	Tube-PVCSD-51
2-stop PVC pump tubing, 1.65 mm ID, (blue/blue), 12 pc	Tube-PVCSD-65
2-stop PVC pump tubing, flared, 0.38 mm ID, (orange/green), 12 pc	Tube-PVCSD-15-F
2-stop PVC pump tubing, flared, 0.51 mm ID, (orange/yellow), 12 pc	Tube-PVCSD-20-F



Tube-PVCSD-20-F
2-stop PVC
Pump Tubing

Visit www.meinhard.com for additional tubing options.

Quartz Nebulizers

Description	Part Number
MEINHARD® SiQ+ Ultra high purity quartz nebulizer, low internal volume, nominal uptake 0.5 mL/min, 1 mL/min @ 50 psi, with FG PFA gas fitting and F2 sample uptake line (See page 33 for more information)	SILQ-50-A0.5
MEINHARD® TQ+ quartz nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi (See page 33 for more information)	TQP-50-A0.5
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 0.5 mL/min, 1 L/min @ 30 psi	TQ-30-A0.5
MEINHARD® Type A quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TQ-30-A1
MEINHARD® Type A concentric quartz nebulizer, lapped flush nozzle, low background, high sensitivity, nominal uptake 3mL/min, 1 L/min @ 30 psi	TQ-30-A3



SILQ-50-A0.5
SiQ+ Quartz
Nebulizer

Glass Nebulizers

Description	Part Number
MEINHARD® TR+ glass nebulizer, high sensitivity, low internal volume inlet, nominal uptake 0.5 mL/min, 1 L/min @ 50 psi (See page 33 for more information)	TRP-50-A0.5
MEINHARD® Type A glass nebulizer, lapped flush nozzle, general purpose, nominal uptake 0.5mL/min, 1L/min @ 30 psi	TR-30-A0.5
MEINHARD® Type A glass nebulizer, low cost, lapped flush nozzle, high sensitivity, nominal uptake 1 mL/min, 1 L/min @ 30 psi (1201318)	TR-30-A1
MEINHARD® Type A glass nebulizer, low cost, lapped flush nozzle, high sensitivity, nominal uptake 3 mL/min, 1 L/min @ 30 psi (1040894)	TR-30-A3
MEINHARD® Type C glass nebulizer, polished, recessed (0.5 mm) capillary, high solids, nominal uptake 1 mL/min, 1 L/min @ 30 psi	TR-30-C1
MEINHARD® Type K glass nebulizer, lapped flush nozzle, recessed (0.5 mm) capillary, high solids, nominal uptake 1 mL/min, 0.7 L/min @ 30 psi (1040894)	TR-30-K1
MEINHARD® Type K glass nebulizer, lapped flush nozzle, high solids, recessed (0.5 mm) capillary, nominal uptake 2 mL/min, 0.7 mL/min @ 30 psi	TR-30-K2



TR-30-K2
Type K Glass
Nebulizer

PFA Nebulizer

Description	Part Number
MicroFlow PFA-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME2040



ME2040
PFA-ST Nebulizer

Poly-Pro Nebulizer

Description	Part Number
PolyPro-ST self-aspirating nebulizer with external 1/4-28 threaded connector. Includes one 400µl/min capillary.	ME4040



ME4040
PolyPro-ST Nebulizer

PEEK Nebulizer

Description	Part Number
PEEK MiraMist nebulizer. Includes an argon line and sample capillary.	PMM4000



PMM4000
PEEK MiraMist Nebulizer

Nebulizer Cleaner

Description	Part Number
Pearl Nebulizer Cleaner for all quartz and glass concentric nebulizers (8100-2051)	PRL-02



PRL-02
Pearl Nebulizer Cleaner

(See page 83 for more information)

Conical Spray Chamber

Description	Part Number
Pyrex conical spray chamber, impact, jacketed (3204313)	ML145022
Quartz conical spray chamber, impact, jacketed (3600374)	ML145023
Quartz conical spray chamber, Peltier cooled (3600170)	ML145024



ML145023
Conical Spray Chamber

Scott Spray Chamber

Description	Part Number
Quartz Scott spray chamber, jacketed for coolant (3200841)	ML145016



ML145016
Scott Spray Chamber

PFA Spray Chamber

Description	Part Number
35mm PFA spray chamber and PFA Purecap Endcap for PQ2, PQ3 & Axiom	ME21245351



ME21245351
PFA Spray Chamber

Spray Chamber Cooling Block & Mounting Brackets

Description	Part Number
Spray chamber cooling block with mounting bracket, anodized aluminum	ME61240001
Mounting bracket for aluminum spray chamber cooling block to VG PQ2	ME61241002
Mounting bracket for aluminum spray chamber cooling block for VG Axiom	ME61242002

Quartz Elbows

Description	Part Number
Quartz elbow, ball/socket, 17° (3600169)	ML145025
Quartz elbow, ball/socket, 90° for Scott type quartz spray chamber (3200727)	ML145032



ML145032
Quartz Elbow

pergo Argon Nebulizer Gas Humidifier

Description	Part Number
pergo argon high solids accessory without nebulizer. Includes gas line connector kit.	PRG-01
pergo argon high solids accessory including MEINHARD® Type A Plus high performance nebulizer	PRG-01-MAPLus

(See page 21 for more information)



PRG-01
pergo High Solids
Accessory

Torch Shields / Screens

Description	Part Number
Platinum torch shield (3600157)	MC-00157
Silver torch screen (3601219)	MC-01219



MC-01219
Silver Torch Screen

Quartz One-Piece Torches with Ball Joint

Description	Part Number
Quartz torch with ball joint, axial, fixed 1.5 mm injector (3201192)	ML145005
Quartz torch with o-ring seal ball joint, axial, fixed 1.5 mm injector (319-308)	ML170005
Quartz torch with ball joint, axial, fixed 2 mm injector (3201732)	ML145006



ML145006
Quartz One-Piece Torch

Quartz Torches, Demountable Injector

Description	Part Number
Quartz torch, demountable, axial (1200080)	ML145008
ESI precision o-ring-free quartz torch, demountable, axial	ME12020201



ME12020201
Quartz Torch

Torch Bonnet

Description	Part Number
Quartz torch bonnet for Thermo PlasmaQuad/NU (319-311)	ML170025



ML170025
Quartz Torch Bonnet

Torch Shield

Description	Part Number
Quartz torch shield for Thermo PlasmaQuad (3203789 & 3600884)	ML145029



ML145029
Quartz Torch Shield

Copper Load Coil

Description	Part Number
Copper load coil for Thermo PQ2, PQ3, Excell	MC-32618



MC-32618
Copper Load Coil

Electron Multipliers

Description	Part Number
ETP Electron Multiplier, Thermo PQ3 Excel (simultaneous) (2203433)	MC-AF214
ETP Electron Multiplier, VG PQ3 Sequential (SXP Rods) (2203405)	MC-AF562A



MC-AF562A
Electron Multiplier

MEINHARD® can help you maintain your pump's performance with manufacturer recommended fluids. See page 100 for available fluids and oils.

Sampling Cones

Description	Part Number
Ni sample cone (3004661)	MC-04661
Ni sample cone, Nicone TM, Cu base (3600812)	MC-00812
Ni sample cone (HPI) "supercone" (1600485)	MC-00485
Pt sample Cone (HP) "supercone" (1600335)	MC-00335
Pt sample Cone (6.35mm) HPI (3202521)	MC-02521
Pt sampler, Cu base (6.35mm) (1067500)	MC-67500
Pt sampler, Ni core (1067501)	MC-67501
Pt sampler cone (3601289)	MC-01289
Gasket, graphite for sampler, pack of 3 (3004382)	MC-04382
Gasket, graphite for sampler, holes, 3 pk (1310900)	MC-10900



MC-01289
Platinum Sampler Cone

Skimmer Cones

Description	Part Number
Ni micro-skimmer cone (3200860)	MC-00860
Ni skimmer cone, Nicone TM (3600811)	MC-00811
Pt micro-skimmer cone, XS (3201101)	MC-01101
Pt skimmer, Ni base (6mm) HPI (1047460)	MC-47460
Adapter, copper skimmer with screws (3600813)	MC-00813
O-ring, Viton for micro-skimmer, pack of 3 (1201240)	MC-01240



MC-47460
Platinum Skimmer Cone

Cone Cleaning Kit & Detergent

Description	Part Number
Cone Cleaning Kit includes: Course & Fine Alumina Powder, Diamond Abrasive Paste, Synthetic fiber, lint-free cloths, Wooden cotton swabs (qty 50), Foam Tipped ESD Swabs (qty 50) and Maginifier	MC-MNTKIT1
Citranox Detergent, contains acid ingredients for high-performance removal of metal oxides, salts and inorganic residues combined with full detergent capability. Used on soft metals. 1 gallon	CitranoxDetergent



MC-MNTKIT1
Cone Cleaning Kit

2-Stop PVC Peristaltic Pump Tubing

Description	Part Number
2-stop PVC pump tubing, 0.76 mm ID, (black/black), 12 pc (1301670)	Tube-PVCSD-30
2-stop PVC pump tubing, 1.02 mm ID, (white/white), 12 pc (1200212)	Tube-PVCSD-40
2-stop PVC pump tubing, 1.30 mm ID, (gray/gray), 12 pc	Tube-PVCSD-51
2-stop PVC pump tubing, 1.65 mm ID, (blue/blue), 12 pc	Tube-PVCSD-65
2-stop PVC pump tubing, 2.0 mm flared, 0.13 mm ID, (orange/black), 12 pc	Tube-PVCSD-051-F
2-stop PVC pump tubing, 2.0 mm flared, 0.38 mm ID, (orange/green), 12 pc (1301680)	Tube-PVCSD-15-F
2-stop PVC pump tubing, 2.0 mm flared, 0.51 mm ID, (orange/yellow), 12 pc (1305920)	Tube-PVCSD-20-F



Tube-PVCSD-30
2-stop PVC
Pump Tubing

Visit www.meinhard.com for additional tubing options.

Invoil 702 Diffusion Pump Fluid

Description	Size	Part Number
Invoil 702 Diffusion Pump Fluid is a general-purpose fluid designed for fast pumping of large volume of gas. It is used to produce vacuums in the range of 10-5 to 10-7 torr. It is also used in vapor ejector pumps that attain vacuums of 10-4 to 10-5 torr.	1 Gallon	MC-72008
	5 Gallons	MC-72015

MC-72008
Diffusion Pump Fluid



Invoil 704 Diffusion Pump Fluid

Description	Size	Part Number
Invoil 704 Diffusion Pump Fluid is a single-component fluid for high vacuums of 10-6 to 10-8 torr (untrapped) and 10-10 to 10-11 torr (trapped). It performs well in tough, rugged applications and offers quick pumpdown, even after exposure to air at operating temperatures.	1 Gallon	MC-74008
	5 Gallons	MC-74015

MC-74008
Diffusion Pump Fluid



Invoil 705 Diffusion Pump Fluid

Description	Size	Part Number
Invoil 705 Diffusion Pump Fluid is a colorless to straw-colored, single component fluid designed for ultra high vacuum applications in the range of 10-9 to 10-10 torr (untrapped) and 10-11 torr (trapped). The vapor pressure and backstreaming rate of Invoil 705 Diffusion Pump Fluid are so low that use of traps or refrigeration is unnecessary for some ultra high and ultra clean vacuum applications. It has the highest phenyl content of all silicone diffusion pump fluids and the best resistance to radiation. High spontaneous ignition temperature makes this fluid ideal for use in human rated space simulation chambers.	1 Gallon	MC-75008

FOMBLIN Y14/6

Description	Size	Part Number
Non-flammable, low vapour pressure chemically inert mechanical pump oil. Good radiation stability and resists attack by corrosive gases. High dielectric strength with extended service life. Safe for oxygen service.	1 kg	MC-22265

MC-22265
Perfluoropolyether
Fluid



FOMBLIN LC80

Description	Size	Part Number
FOMBLIN LC perfluoropolyether fluids have the following unique features: excellent wear characteristics; very good low temperature properties; cost-effective; and outstanding for applications requiring low viscosity.	1 Liter	MC-45003

Inland® 19 Rough Pump Oil

Description	Size	Part Number
Inland® 19 Rough Pump Oil is ideal for use in all models of vacuum pumps including Alcatel, Edwards, and Welch. Inland 19 utilizes crude stocks known for their durability and fine lubricating qualities. Precision distillation further enhances these characteristics while providing a cleaner, cooler running, longer-lasting oil that in many instances will provide improved pumping cycles.	1 Liter	MC-15101

MC-15101
Rough Pump Oil



Coolant-Chiller Mix Non Glycol

Description	Size	Part Number
Coolant-Chiller Mix Non Glycol. Case of five half gallon bottles. Non-glycol coolant, which is made up of five half gallon bottles of distilled water and includes an additive to control black algae and other resistant strains.	Case of 5 Gallon Bottles	MC-76099

MC-76099
Coolant-Chiller
Mix



Inland® 45 Mechanical Pump Oils

Description	Size	Part Number
Inland® 45 Mechanical Pump Oil permits strain-free cold starts as a result of its low pour point and high viscosity index (its viscosity is lower than that of typical vacuum pump oils at low temperatures). In addition, because it maintains its viscosity at high temperatures, it provides a good seal under full load conditions. Among other properties offered by Inland 45's unique molecular structure are chemical inertness and high-temperature stability superior to those of other high-performance oils, such as white oils; and low vapor pressure (10-7 torr at 25 deg. C). This oil is recommended for use on all H.P. Mass Spectrometers as well as other systems where the best vacuum levels and lowest Mass Spectrometer background are required.	1 Quart	MC-00834
Inland® 45 Mechanical Pump Oil permits strain-free cold starts as a result of its low pour point and high viscosity index (its viscosity is lower than that of typical vacuum pump oils at low temperatures). In addition, because it maintains its viscosity at high temperatures, it provides a good seal under full load conditions. Among other properties offered by Inland 45's unique molecular structure are chemical inertness and high-temperature stability superior to those of other high-performance oils, such as white oils; and low vapor pressure (10-7 torr at 25 deg. C). This oil is recommended for use on all H.P. Mass Spectrometers as well as other systems where the best vacuum levels and lowest Mass Spectrometer background are required.	1 Gallon	MC-00798

MC-00834
Mechanical Pump Oil



Leybold Roughing Pump Oil

Description	Size	Part Number
Equivalent to Leybold Roughing Pump Oil	1 Gallon	MC-22004

MC-22004
Roughing Pump Oil



Agilent/Varian Roughing Pump Oil

Description	Size	Part Number
Agilent/Varian equivalent Roughing Pump Oil is quality mechanical vacuum pump oil for the ultimate performance of your Agilent/Varian Rotary Vane pumps. Agilent/Varian GP Oil is specially prepared to meet the Rotary Vane exclusive specifications. We recommend that you change your vacuum pump oil at least every 3 months to prolong the life of your vacuum pump.	1 Gallon	MC-22308

MC-22308
Roughing Pump Oil



PFA FitKit⁺ Quick Connects

Quick Connection Kits for MEINHARD® Glass and Quartz Nebulizers

Elemental Scientific introduces the PFA F4 FitKit Quick Connects, a variation of the FG gas and sample fitting system for MEINHARD® Plus nebulizers. F4 gas connection forms a tight seal over the maria on the sidearm of the MEINHARD® nebulizers, while allowing for quick push-in fitting attachment with 4mm gas lines. F4 offers the same benefits of an easy-to-use quick connect with snap function while maintaining high purity for sensitive ICP and ICPMS applications.

F4 gas connection forms a tight seal over the maria on the sidearm of the MEINHARD® nebulizers. F4 offers the benefits of an easy-to-use quick connect while maintaining high purity for sensitive ICP and ICPMS applications. In a test that simulated a backflow event, F4 produced concentrations of elements like Fe and Cr that were four orders of magnitude lower than concentrations leached from a conventional fitting (Figure 1).

Benefits include:

- Easy to connect and disconnect nebulizer line
- One connection fits any MEINHARD® nebulizer

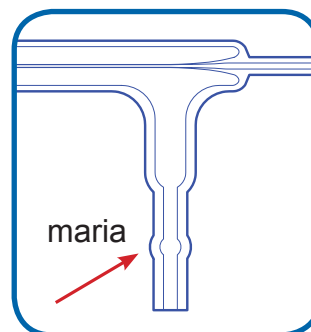


Figure 1

F4 Gas Quick Connect for MEINHARD® Nebulizers

F4 Gas Quick Connect for MEINHARD® Nebulizer with maria for both small bore and standard bore nebulizers.



F4 Gas Quick Connect



F4-57 Optima Nebulizer Gas Quick Connect



F4-54 NexION/ELAN Nebulizer Gas Quick Connect

Part Number	Description	Application
F4	F4 gas Quick Connect for MEINHARD® nebulizers with PFA-Press Fit for 4mm tubing	Easy to use nebulizer connector for use with all MEINHARD® nebulizers
F4-54	F4-54 Nexion/ELAN Nebulizer Gas Quick Connect with PFA-Press Fit for 4mm tubing	
F4-57	F4-57 Optima Nebulizer Gas Quick Connect with PFA-Press Fit for 4 mm tubing	

2-Stop Peristaltic Pump Tubing Cross Reference Guide

Meinhard P/N	ESI P/N	Tubing Type	Color Code	Stops	ID (in)	ID (mm)	Qty	Agilent	JY - Horiba	PerkinElmer	Spectro Ametek	Teledyne	Thermo iCAP Elemental TJA	Thermo VG	Varian
Tube-PVCD-075-F	ES-4397-1019	PVC - Flared	ORG	RED	2	0.0075	0.19	12	G328067008		N0773111				
Tube-PVCD-075	ES-4398-1019	PVC	ORG	RED	2	0.0075	0.19	12	G182065220		N0695476				
Tube-PVCD-10-F	ES-4397-1027	PVC - Flared	ORG	BLU	2	0.0010	0.25	12	G328067047		N0773112				
Tube-PVCD-10	ES-4398-1013	PVC	ORG	BLU	2	0.0010	0.25	12			N0773117				
Tube-PVCD-15-F	ES-4397-1038	PVC- Flared	ORG	GRN	2	0.0150	0.38	12			N0777042			1301680	
Tube-PVCD-15	ES-4398-1038	PVC	ORG	GRN	2	0.0150	0.38	12			N0777110	47201037			
Tube-SolFSD-15	ES-4398-5038	Solva	ORG	GRN	2	0.0150	0.38	12			N8145211			1305910	
Tube-PVCD-173-F	ES-4397-1044	PVC - Flared	GRN	YEL	2	0.0173	0.44	12			N0773113				
Tube-PVCD-20-F	ES-4397-1051	PVC - Flared	ORG	YEL	2	0.0200	0.51	12			N0777476			1305920	
Tube-PVCD-20	ES-4398-1051	PVC	ORG	YEL	2	0.0200	0.51	12				309000691	1161920		
Tube-SolFSD-20	ES-4398-5051	Solva	ORG	YEL	2	0.0200	0.51	12				309000692			
Tube-Viton-20	ES-4398-7051	Viton	ORG	YEL	2	0.0200	0.51	12			N0777446	309000693			3710043500
Tube-PVCD-25-F	ES-4397-1064	PVC - Flared	ORG	WHT	2	0.0250	0.64	12			N0777711				
Tube-SanSD-25	ES-4398-2064	Santoprene	ORG	WHT	2	0.0250	0.64	12							
Tube-PVCD-25	ES-4398-1064	PVC	ORG	WHT	2	0.0250	0.64	12			N8122012	47101001	842312051511		
Tube-PVCD-30-F	ES-4397-1076	PVC - Flared	BLK	BLK	2	0.0300	0.76	12			N0777043			1301670	
Tube-SanSD-40	ES-4398-2076	Santoprene	BLK	BLK	2	0.0400	0.76	12							
Tube-PVCD-30	ES-4398-1076	PVC	BLK	BLK	2	0.0300	0.76	12	46.791.022	09908587		3093552			3710027200
Tube-SolFSD-30	ES-4398-5076	Solva	BLK	BLK	2	0.0300	0.76	12	46.791.010	00473550					3710034800
Tube-PVCD-35	ES-4398-1089	PVC	ORG	ORG	2	0.0350	0.89	12			47101003	3093551			
Tube-SolFSD-35	ES-4398-5089	Solva	ORG	ORG	2	0.0350	0.89	12			47501016	309000692			
Tube-PVCD-37	ES-4398-1095	PVC	WHT	BLK	2	0.0370	0.95	12	G182065220						
Tube-SanSD-15	ES-4398-2102	Santoprene	WHT	WHT	2	0.0400	1.02	12							
Tube-PVCD-40	ES-4398-1102	PVC	WHT	WHT	2	0.0400	1.02	12	G182065215	46.791.022			842312051521	1200212	3710034400
Tube-SolFSD-40	ES-4398-5102	Solva	WHT	WHT	2	0.0400	1.02	12							3710035000
Tube-SanSD-45	ES-4398-2114	Santoprene	RED	RED	2	0.0450	1.14	12			N0773119				
Tube-PVCD-45	ES-4398-1114	PVC	RED	RED	2	0.0450	1.14	12			N0680375	30900694			
Tube-SolFSD-45	ES-4398-5114	Solva	RED	RED	2	0.0450	1.14	12	46.791.012	N0680376		309000695			
Tube-SanSD-50	ES-4398-2130	Santoprene	GRY	GRY	2	0.0500	1.30	12			N0777444			1310620	
Tube-SanSD-50	ES-4398-2130	Santoprene	GRY	GRY	2	0.0500	1.30	12			N8145173			1310620	
Tube-PVCD-51	ES-4398-1130	PVC	GRY	GRY	2	0.0500	1.30	12	46.791.018		47501010				3710034500
Tube-SolFSD-50	ES-4398-5130	Solva	GRY	GRY	2	0.0500	1.30	12							3710035200
Tube-PVCD-55	ES-4398-1142	PVC	YEL	YEL	2	0.0550	1.42	12			N0777521				
Tube-SanSD-60	ES-4398-2152	Santoprene	YEL	BLU	2	0.0600	1.52	12	G182065216						
Tube-PVCD-60	ES-4398-1152	PVC	YEL	BLU	2	0.0600	1.52	12			09923536	47101006			
Tube-SanSD-30	ES-4398-2165	Santoprene	BLU	BLU	2	0.0650	1.65	12							
Tube-PVCD-65	ES-4398-1165	PVC	BLU	BLU	2	0.0650	1.65	12			47101014				3710034600
Tube-PVCD-69	ES-4398-1175	PVC	BLU	GRN	2	0.0688	1.75	12			47101005				
Tube-SanSD-35	ES-4398-2185	Santoprene	GRN	GRN	2	0.0700	1.85	12			N0773116				
Tube-PVCD-70	ES-4398-1185	PVC	GRN	GRN	2	0.0700	1.85	12	46.791.016	N0777518					
Tube-PVCD-81	ES-4398-1206	PVC	PRPL	PRPL	2	0.0800	2.06	12			N0777561				
Tube-PVCD-90	ES-4398-1120	PVC	PRPL	BLK	2	0.0900	2.29	12							3710027300
Tube-SanSD-110	ES-4398-2279	Santoprene	PRPL	WHT	2	0.1100	2.79	12							
Tube-SolFSD-110	ES-4398-5279	Solva	PRPL	WHT	2	0.1100	2.79	12		02508080					
Tube-PVCD-125	ES-4398-1317	PVC	BLK	WHT	2	0.1250	3.18	12			N8122012				
Tube-Viton-25	ES-4398-7064	Viton	ORG	WHT	2	0.0250	0.64	12					842312051531		
Tube-SILSD-30	ES-4398-9076	Silicone	BLK	BLK	2	0.0300	0.76	6			00473552				3710044100
Tube-Viton-30	ES-4398-7076	Viton	BLK	BLK	2	0.0300	0.76	12			N0773118	3093552			3710027200
Tube-SILSD-35	ES-4398-9089	Silicone	ORG	ORG	2	0.0350	0.89	6							

2-Stop Peristaltic Pump Tubing Cross Reference Guide

Meinhard P/N	ESI P/N	Tubing Type	Color Code		Stops	ID (in)	ID (mm)	Qty	Agilent	JY - Horiba	PerkinElmer	Spectro Ametek	Teledyne	Thermo iCAP Elemental TJA	Thermo VG	Varian
Tube-Viton-35	ES-4398-7089	Viton	ORG	ORG	2	0.0350	0.89	12								
Tube-SILSD-40	ES-4398-9102	Silicone	WHT	WHT	2	0.0400	1.02	6	G182065217		N0777441					3710044200
Tube-Viton-40	ES-4398-7102	Viton	WHT	WHT	2	0.0400	1.02	12			N0777442			842312051541		3710034500
Tube-SILSD-45	ES-4398-9114	Silicone	RED	RED	2	0.0450	1.14	6			N0691595					
Tube-Viton-45	ES-4398-7114	Viton	RED	RED	2	0.0450	1.14	12			N0773115		309000696			
Tube-SILSD-50	ES-4398-9130	Silicone	GRY	GRY	2	0.0500	1.30	6			N0777443					3710044300
Tube-Viton-50	ES-4398-7130	Viton	GRY	GRY	2	0.0500	1.30	12			N0777445					3710034500
Tube-Viton-60	ES-4398-7152	Viton	YEL	BLU	2	0.0600	1.52	12								
Tube-SILSD-65	ES-4398-9165	Silicone	BLU	BLU	2	0.0650	1.65	6								3710044400
Tube-Viton-65	ES-4398-7165	Viton	BLU	BLU	2	0.0650	1.65	12			N0777447					3710034600
Tube-Viton-80	ES-4398-7206	Viton	PRPL	PRPL	2	0.0800	2.06	12								
Tube-SanSD-90	ES-4398-2220	Santoprene	PRPL	BLK	2	0.0900	2.29	12						1066310		
Tube-SILSD-110	ES-4398-9279	Silicone	PRPL	WHT	2	0.1100	2.79	6			09923448					
MPP-019-F-PVC	MPP-019-F-PVC	PVC	ORG	RED	2	0.0075	0.19	12			N8145195					
MPP-019-PVC	MPP-019-PVC	PVC	ORG	RED	2	0.0075	0.19	12			N8145146					
MPP-027-F-PVC	MPP-027-F-PVC	PVC	ORG	BLU	2	0.0010	0.25	12			N8145196					
MPP-027-PVC	MPP-027-PVC	PVC	ORG	BLU	2	0.0010	0.25	12			N8145147					
MPP-038-F-PVC	MPP-038-F-PVC	PVC	ORG	GRN	2	0.0150	0.38	12			N8145197					
MPP-038-PVC	MPP-038-PVC	PVC	ORG	GRN	2	0.0150	0.38	12			N8145148					
MPP-038-S	MPP-038-S	Solva	ORG	GRN	2	0.0150	0.38	12			N8145211					
MPP-044-F-PVC	MPP-044-F-PVC	PVC	GRN	YEL	2	0.0173	0.44	12			N8145198					
MPP-051-F-PVC	MPP-051-F-PVC	PVC	ORG	YEL	2	0.0200	0.51	12			N8145199					
MPP-051-PVC	MPP-051-PVC	PVC	ORG	YEL	2	0.0200	0.51	12			N8145150					
MPP-064-F-PVC	MPP-064-F-PVC	PVC	ORG	WHT	2	0.0250	0.64	12			N8145201					
MPP-064-PVC	MPP-064-PVC	PVC	ORG	WHT	2	0.0250	0.64	12			N8145152					
MPP-076-F-PVC	MPP-076-F-PVC	PVC	BLK	BLK	2	0.0300	0.76	12			N8145202					
MPP-076-PHR	MPP-076-PHR	Santoprene	BLK	BLK	2	0.0400	0.76	12			N8145172					
MPP-076-PVC	MPP-076-PVC	PVC	BLK	BLK	2	0.0300	0.76	12			N8145153					
MPP-076-S	MPP-076-S	Solva	BLK	BLK	2	0.0300	0.76	12			N8145176					
MPP-089-PVC	MPP-089-PVC	PVC	ORG	ORG	2	0.0350	0.89	12			N8145154					
MPP-089-S	MPP-089-S	Solva	ORG	ORG	2	0.0350	0.89	12			N8145177					
MPP-095-PVC	MPP-095-PVC	PVC	WHT	BLK	2	0.0370	0.95	12			N8145155					
MPP-102-PVC	MPP-102-PVC	PVC	WHT	WHT	2	0.0400	1.02	12			N8145156					
MPP-102-S	MPP-102-S	Solva	WHT	WHT	2	0.0400	1.02	12			N8145179					
MPP-114-PVC	MPP-114-PVC	PVC	RED	RED	2	0.0450	1.14	12			N8145158					
MPP-114-S	MPP-114-S	Solva	RED	RED	2	0.0450	1.14	12			N8145181					
MPP-130-PHR	MPP-130-PHR	Santoprene	GRY	GRY	2	0.0500	1.30	12			N8145173					
MPP-130-PVC	MPP-130-PVC	PVC	GRY	GRY	2	0.0500	1.30	12			N8145160					
MPP-130-S	MPP-130-S	Solva	GRY	GRY	2	0.0500	1.30	12			N8145183					
MPP-142-PVC	MPP-142-PVC	PVC	YEL	YEL	2	0.0550	1.42	12			N8145161					
MPP-152-PHR	MPP-152-PHR	Santoprene	YEL	BLU	2	0.0600	1.52	12			N8145174					
MPP-152-PVC	MPP-152-PVC	PVC	YEL	BLU	2	0.0600	1.52	12			N8145162					
MPP-165-PVC	MPP-165-PVC	PVC	BLU	BLU	2	0.0650	1.65	12			N8145163					
MPP-175-PVC	MPP-175-PVC	PVC	BLU	GRN	2	0.0688	1.75	12			N8145164					
MPP-185-PVC	MPP-185-PVC	PVC	GRN	GRN	2	0.0700	1.85	12			N8145165					
MPP-206-PVC	MPP-206-PVC	PVC	PRPL	PRPL	2	0.0800	2.06	12			N8145166					
MPP-220-PVC	MPP-220-PVC	PVC	PRPL	BLK	2	0.0900	2.29	12			N8145167					
MPP-317-PVC	MPP-317-PVC	PVC	BLK	WHT	2	0.1250	3.18	12			N8145170					

3-Stop Peristaltic Pump Tubing Cross Reference Guide

Meinhard P/N	ESI P/N	Tubing Type	Color Code			Stops	ID (in)	ID (mm)	Qty	Agilent	JY - Horiba	PerkinElmer	Spectro Ametek	Teledyne	Thermo iCAP Elemental TJA	Thermo VG	Varian
Tube-PVCSD-075-3	ES-4398-3019	PVC	ORG	RED	ORG	3	0.0075	0.19	12	G183365572		N0695477					
Tube-PVCSD-15-3	ES-4398-3038	PVC	ORG	GRN	ORG	3	0.0150	0.38	12						13017706		
Tube-SolFSD-15-3	ES-4398-6038	Solva	ORG	GRN	ORG	3	0.0150	0.38	12						13173103		
Tube-PVCSD-30-3	ES-4398-3076	PVC	BLK	BLK	BLK	3	0.0300	0.76	12			B0506058				1301670	
Tube-PVCSD-35-3	ES-4398-3089	PVC	ORG	ORG	ORG	3	0.0350	0.89	12						13017700		
Tube-SILSD-35-3	ES-4398-a089	Silicone	ORG	ORG	ORG	3	0.0350	0.89	6						13017702		
Tube-SolFSD-35-3	ES-4398-6089	Solva	ORG	ORG	ORG	3	0.0350	0.89	12						13173102		
Tube-Viton-35-3	ES-4398-8089	Viton	ORG	ORG	ORG	3	0.0350	0.89	12						13017704		
Tube-PVCSD-40-3	ES-4398-3102	PVC	WHT	WHT	WHT	3	0.0400	1.02	12			B0506742					
Tube-SolFSD-40-3	ES-4398-6102	Solva	WHT	WHT	WHT	3	0.0400	1.02	12	G183365569		B0507692					
Tube-PVCSD-45-3	ES-4398-3114	PVC	RED	RED	RED	3	0.0450	1.14	12			B0193160			13017701		
Tube-SILSD-45-3	ES-4398-a114	Silicone	RED	RED	RED	3	0.0450	1.14	6						13017703		
Tube-SolFSD-45-3	ES-4398-6114	Solva	RED	RED	RED	3	0.0450	1.14	12						078532		
Tube-Viton-45-3	ES-4398-8114	Viton	RED	RED	RED	3	0.0450	1.14	12						13017705		
Tube-SolFSD-55-3	ES-4398-6142	Solva	YEL	YEL	YEL	3	0.0550	1.42	12						078530		
Tube-Viton-55-3	ES-4398-8142	Viton	YEL	YEL	YEL	3	0.0550	1.42	12								
Tube-PVCSD-60-3	ES-4398-3152	PVC	YEL	BLU	YEL	3	0.0600	1.52	12			B0193161					
Tube-SanSD-60-3	ES-4398-4152	Santoprene	YEL	BLU	YEL	3	0.0600	1.52	12	G183365570							
Tube-SolFSD-60-3	ES-4398-6152	Solva	YEL	BLU	YEL	3	0.0600	1.52	12						078539		
Tube-SolFSD-65-3	ES-4398-6165	Solva	BLU	BLU	BLU	3	0.0650	1.65	12						13173100		3710067900
Tube-PVCSD-81-3	ES-4398-3206	PVC	PRPL	PRPL	PRPL	3	0.0800	2.06	12			B0199034					
Tube-SolFSD-90-3	ES-4398-6229	Solva	PRPL	BLK	PRPL	3	0.0900	2.29	12						13173101		
Tube-PVCSD-125-3	ES-4398-3317	PVC	BLK	WHT	BLK	3	0.1250	3.18	12			B0508310					

Chemical Classification	PVC	Silicone	Viton	Santoprene
Acetaldehyde	U	X	U	X
Acetates	U	O	U	X
Acetone	U	X	U	U
Alcohol	X	X	X	-
Aliphatic Hydrocarbons	X	O	U	-
Aqua Regia	U	-	O	U
Aromatic Hydrocarbons	U	U	X	-
Benzene	O	U	X	U
Carbon Tetrachloride	O	U	X	U
Ethers	O	U	O	U
Gasoline (non-aromatic)	U	U	X	U
Gasoline (high aromatic)	U	U	X	-
Hydrochloric Acid (dil.)	X	U	X	X
Kerosene	U	U	X	U
Ketones	U	U	U	-
Laquer Solvents	U	U	U	U
Naphtha	O	U	X	U
Nitric Acid (dil.)	X	O	X	O
Oils, Animal	U	O	X	X
Oils, Mineral	U	O	X	X
Oils, Vegetable	O	X	X	X
Sulfuric Acid (dil.)	X	U	X	O
Turpentine	X	U	X	-
Water	X	X	X	X
Xylol	U	U	X	U

Codes

X = Satisfactory

O = Use only after testing

U = Unsatisfactory

- = No data available

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