Pneumatic Products™

Mist Eliminators
PME Series

The auditors choice to reduce energy costs and remove oil and water aerosols from compressed air systems.

- Protect products and processes from contamination
- Increase the life of pneumatic equipment
- Help eliminate paint appearance and adhesion problems
- Keep pneumatic instruments operating

Low Operating Costs

- Low pressure drop: 0.5 to 1 psi (0.04 to 0.07 kgf/cm^2)
  - — Typical coalescing filters operate at 3 to 6 psi (0.21 to 0.42 kgf/cm^2) requiring the air compressor to operate at higher operating pressures, increasing power requirements by 2.5% or more
- Long element life: 8 to 15 years With a large in-depth bed, element life is much longer than conventional oil removal filters
- Virtually maintenance free

Extra Protection

- Captures and retains large slugs of oil and water, should drain trap fail
- Protects downstream equipment from contamination should oil separator on rotary screw compressor fail

Standard Features

- 5 year equipment warranty
- 5 year element life guarantee
- Differential pressure gauge mounted and piped
- Heavy duty ASME stamped pressure vessel
- Long life mist eliminator element
- Floor stand
- Dedicated vent port for demand type drains

Superior Installation Flexibility

- Twelve (12) inlet positions to better adapt to your piping arrangement
- Inlet piping clears vessel diameter to prevent element removal complications
- Flanged inlet connection ensures easy access to element
- Dedicated vent connection port for clean, easy demand drain trap installations

Removes Submicronic Particles For Ultra Clean Air

- 100% of particles 3 microns and larger
- 99.98% of particles 0.1 micron and larger
- 0.5 ppm w/w maximum liquid content after filtration
- 1000 ppm maximum inlet liquid loading

Optional Features

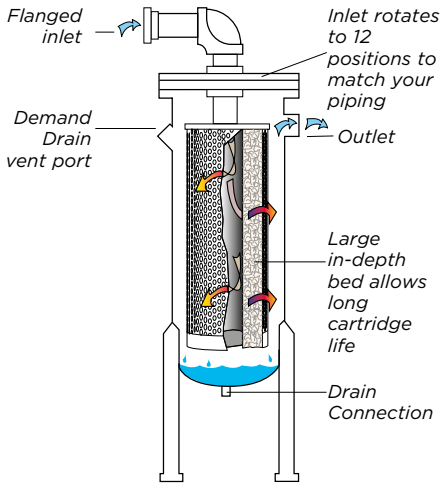
- Automatic condensate drains:
  - — No-Loss drains (NLD-24-T Shown)
  - — Timer drains
- Differential pressure gauge with reed switch

Advanced Filter Bed Technology

Compressed air enters the rotatable flanged inlet assembly engineered for easy element access. Designed for optimum velocity, the air is directed through a loosely packed bed of highly engineered, water resistant glass fibers. Water droplets, oil aerosols and solid particles entrained in the air stream are captured by the fibers through the mechanics of direct interception, inertial impaction, and diffusion that result from the forces of Brownian motion. The captured liquids and aerosols move along the fibers and coalesce into larger droplets. Gravity draws the coalesced liquids to the bottom of the filter element where they drop into a quiet zone in the bottom of the vessel for removal.

Superior Drainage

Condensate drainage can be accomplished automatically by installing an optional drain valve. Timer operated drains or energy efficient demand style drain valves (optional) can be adapted to the drain connection. Demand style drain valves benefit from the demand drain vent connection port (see illustration) engineered into these vessels. This exclusive feature equalizes drain-to-vent pressures and simplifies vent piping installations. Equalized pressure ensures consistent drainage and prevents "air-lock" induced drain valve failures common in other designs.



Sizing

Min. Inlet Pressure								
psig	20	30	40	60	80	100	120	150
kgf/cm²	1.4	2.1	2.8	4.2	5.6	7.0	8.4	10.5
Multiplier	0.30	0.39	0.48	0.65	0.82	1.00	1.17	1.43

Maximum air flow at 100 psig (7 kgf/cm²) is indicated in the Specifications table. To determine maximum air flow at pressures other than 100 psig (7 kgf/cm²) multiply flow @ 100 psig (7 kgf/cm²) by multiplier from the sizing table that corresponds to the minimum operating pressure at the inlet of the filter.

Product Specifications

Model	Flow @ 100 psig (7 kgf/cm²)		Replacement Cartridge	Dimensions				Connections[1]		Weight	
				Height		Width					
	scfm	m³/h		in.	(mm)	in.	(mm)	Inlet	Outlet	lbs	(kg)
PME-125-PDI	125	212	4001416	40	1016	17	431	2" FLG	2" NPT	194	88
PME-250-PDI	250	425	4001417	40	1016	17	431	2" FLG	2" NPT	200	91
PME-500-PDI	500	850	4001418	52	1320	18	457	21/2" FLG	21/2" NPT	231	105
PME-1100-PDI	1,100	1,869	4001419	77	1955	26	660	4" FLG	4" FLG	368	167
PME-1500-PDI	1,500	2,549	4001421	85	2159	27	686	4" FLG	4" FLG	410	186
PME-2100-PDI	2,100	3,568	4001422	94	2388	33	838	4" FLG	4" FLG	735	333
PME-2400-PDI	2,400	4,078	4001423	94	2388	33	838	4" FLG	4" FLG	751	341
PME-3000-PDI	3,000	5,097	4001424	94	2388	33	838	4" FLG	4" FLG	767	348

Maximum working pressure: 150 psig (10.5 kgf/cm²), Maximum operating temperature: 150°F (66°C)
[1] Consult factory for BSP or DN flanges

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Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region.

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Pneumatic Products Headquarters
4647 SW 40th Avenue
Ocala, Florida 34474-5788 U.S.A.
Tel.: (724) 745-1555
Fax: (724) 745-6040

pneumaticproducts.com

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