

P1A Combination Unit

07 Series Filter-Regulator-Lubricator 1/8" and 1/4" Port Sizes

- Compact design
- Filter removes liquids and solid particles down to 5 µm
- Push to lock adjusting knob with tamper resistant option
- Micro-Fog lubricator provides air line lubrication to one or more air driven tools or other devices
- Nearly constant oil density output with varying air
- Can be disassembled without the use of tools or removal from the air line



Ordering Information. Models listed include PTF threads, transparent bowls, filter with automatic drain, 5 µm element; regulator with relieving diaphragm, 5 to 100 psig (0.3 to 7 bar) outlet pressure adjustment range*, gauge; lubricator with manual drain.

Port Size	Model Numbers	Weight lbs (kg)
1/8"	P1A-100-A1AA	1.17 (0.53)
1/4"	P1A-200-A1AA	1.17 (0.53)

Alternative Models P 1 A - * * * - * * * * Port Size Substitute Threads Substitute 1/8" Α 1/4" ISO Rc taper 2 В ISO G parallel G Outlet Pressure Adjustment Range* Relief Substitute Lubricator Reservoir Filter Bowl Substitute psig bar Type Gauge Transparent with drain Α **Transparent** 5 to 100 0.3 to 7 Relieving With 00 Transparent without drain Q 5 to 100 Without Transparent 0.3 to 7 Relieving 01 Metal with drain M Non-relieving 5 to 100 Without 02 0.3 to 7 Transparent Metal without drain F Non-relieving Transparent 5 to 100 0.3 to 7 With 03 5 to 50 0.3 to 3.5 Without 04 Transparent Relieving Transparent 5 to 50 0.3 to 3.5 Relieving With 05 Substitute Filter Element 5 to 50 Without 06 Transparent 0.3 to 3.5 Non-relieving 5 µm Transparent 5 to 50 0.3 to 3.5 Non-relieving With 07 100 µm 5 Metal / no sight glass 5 to 100 0.3 to 7 Relieving With 40 Metal / no sight glass 5 to 100 0.3 to 7 Relieving Without 41 Filter Drain Substitute Metal / no sight glass | 5 to 100 0.3 to 7 Non-relieving Without 42 Automatic Α With 43 Metal / no sight glass | 5 to 100 0.3 to 7 Non-relieving Manual Μ Metal / no sight glass 5 to 50 Relieving Without 44 0.3 to 3.5 Metal / no sight glass 5 to 50 0.3 to 3.5 Relieving With 45 Metal / no sight glass 5 to 50 0.3 to 3.5 Non-relieving Without 46

47

See Section ALE-24 for Accessories



Metal / no sight glass 5 to 50

0.3 to 3.5

Non-relieving

With

Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

Miniature 07 Series Filter-Regulator-Lubricator



Technical Data

Fluid: Compressed air Maximum pressure

Transparent bowl: 150 psig (10 bar) Metal bowl: 250 psig (17 bar)

Operating temperature*

Transparent bowl: 0° to 125°F (-20° to 50°C) Metal bowl: 0° to 150°F (-20° to 65°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

Drain connection: Will fit 1/8-27 and 1/8-28 pipe thread

Filter

Partical removal: $5 \mu m$ or $40 \mu m$. Within ISO 8573-1, Class 3 and Class 5 Automatic drain operation: Spitter type drain operates momentarily when a rapid change in air flow occurs or when the supply pressure is reduced.

Regulator

Recommended regulating pressure ranges†:

5 to 100 psig (0.3 to 7 bar) standard

5 to 50 psig (0.3 to 3.5 bar) optional

† Outlet pressures can be adjusted to pressures in excess of, and less than those specified.

Do not use these units to control pressures outside of the specified ranges.

Gauge ports:

1/8" PTF with PTF main ports 1/8" ISO Rc with ISO Rc main ports 1/8" ISO Rc with ISO G main ports

Lubricator

Start point (i.e. minimum flow required for lubricator operation): 0.5 scfm (0.24

dm³/s) at 90 psig (6.3 bar) inlet pressure Nominal bowl size: 1 fluid ounce (31 ml) Recommended lubricants: See Section ALE-29.

Materials

Bodies: Zinc

Filter/Regulator bonnet: Acetal Filter/Regulator valve: Brass/nitrile Filter/Regulator valve seat: Acetal Bowls

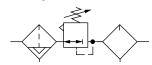
Transparent: Polycarbonate

Metal: Zinc

Lubricator sight-feed dome: Transparent nylon Filter element: Sintered polypropylene

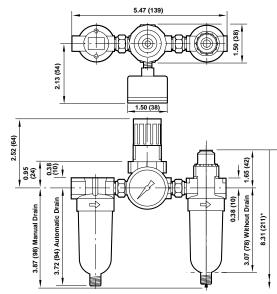
Elastomers: Nitrile

ISO Symbols



Filter with automatic drain, relieving regulator, lubricator with manual drain.

All Dimensions in Inches (mm)



- Minimum clearance to remove bowl.
- "* Use 2" (51 mm) long screws, 5/32" diameter, to mount PTA Unit to wall.

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