

Air Treatment FRL



SMC Type



Other Types : Airtac / FESTO / 'Q' Series

SMC Type Series

An **PHOENIX** filter, regulator, and lubricator are combined to provide clean, lubricated compressed air at your required pressure. Regulator is relieving style, so it exhausts when the downstream pressure exceeds the set pressure. Filter and lubricator have a clear bowl so you can monitor the contents inside.

Stacked filter/regulator/lubricators require less horizontal space than inline FRLs. The filter and regulator are joined top-to-bottom with the lubricator on the side.

Mounting brackets allow you to attach the filter/regulator/lubricator to a wall or equipment.

Joiner clamps (sold separately) connect the filter/regulator/lubricator to another PHOENIX modular component with the same series number. They come with mounting brackets.

Fluid : Air

Ambient & fluid temperature : -5 to 60°C (with no freezing)

Max. operating pressure : 1.0 Mpa

Set pressure range (AR) : 0.05 to 0.7 Mpa

Nominal filtration rating (AF) : 25 micron

Recommended Lubricant (AL) : Class 1 Turbine Oil (ISO VG32)

Bowl Material (AF/AL) : Polycarbonate

Bowl guard (AF/AL) : Semi-standard (Steel)

Filter Regulator + Lubricator

| Thread | (L/min) | Item Code | Price |
|--------|------------|-----------|---------|
| inch | Rated flow | AFRL | Per Nos |
| 1/4" | 500 | AFRL-206 | 1440 |
| 1/4" | 500 | AFRL-206G | 1790 |
| 3/8" | 1700 | AFRL-210 | 2240 |
| 1/2" | 3000 | AFRL-212 | 3250 |
| 3/4" | 3000 | AFRL-219 | 3700 |
| 1" | 4000 | AFRL-225 | 5600 |

Filter(with Auto Drain)

| Item Code | Price |
|-----------|---------|
| AFRL-D | Per Nos |
| AFRL-206D | 2315 |
| — | — |
| AFRL-210D | 3290 |
| AFRL-212D | 4700 |
| AFRL-219D | 5150 |
| AFRL-225D | 7050 |



→ **HSN 842139**

Filter Regulator

| Thread | (L/min) | Item Code | Price |
|--------|------------|-----------|---------|
| inch | Rated flow | AFR | Per Nos |
| 1/4" | 550 | AFR-06 | 850 |
| 1/4" | 550 | AFR-06G | 1060 |
| 3/8" | 2000 | AFR-10 | 1520 |
| 1/2" | 4000 | AFR-12 | 2320 |
| 3/4" | 4500 | AFR-19 | 2510 |
| 1" | 5000 | AFR-25 | 3430 |

Filter(with Auto Drain)

| Item Code | Price |
|-----------|---------|
| AFR-D | Per Nos |
| AFR-06D | 1725 |
| — | — |
| AFR-10D | 2570 |
| AFR-12D | 3770 |
| AFR-19D | 3960 |
| AFR-25D | 4880 |



→ **HSN 842139**

SMC Type Series



→ HSN 842139

Filter

| Thread | (L/min) | Item Code | Price |
|--------|------------|-----------|---------|
| inch | Rated flow | AF | Per Nos |
| 1/4" | 750 | AF-06 | 360 |
| 1/4" | 750 | AF-06G | 540 |
| 3/8" | 1500 | AF-10 | 740 |
| 1/2" | 4000 | AF-12 | 1060 |
| 3/4" | 6000 | AF-19 | 1160 |
| 1" | 7000 | AF-25 | 1920 |

Filter(with Auto Drain)

| Item Code | Price |
|-----------|---------|
| AF-D | Per Nos |
| AF-06D | 1235 |
| — | — |
| AF-10D | 1790 |
| AF-12D | 2510 |
| AF-19D | 2610 |
| AF-25D | 3370 |



→ HSN 848120

Regulator

| Item Code | Thread | (L/min) | Price |
|-----------|--------|------------|---------|
| AR | inch | Rated flow | Per Nos |
| AR-06 | 1/4" | 550 | 675 |
| AR-10 | 3/8" | 2500 | 1095 |
| AR-12 | 1/2" | 6000 | 1580 |
| AR-19 | 3/4" | 6000 | 1850 |
| AR-25 | 1" | 8000 | 2170 |



→ HSN 846789

Lubricator

| Item Code | Thread | Price |
|-----------|--------|---------|
| AL | inch | Per Nos |
| AL-06 | 1/4" | 440 |
| AL-10 | 3/8" | 710 |
| AL-12 | 1/2" | 1050 |
| AL-19 | 3/4" | 1175 |
| AL-25 | 1" | 2005 |

AUTO DRAIN VALVE – AD402 SERIES → HSN 842139

The **AD402** series auto drain valve automatically discharges drainage. It is highly resistant to dust and corrosion. This series operates in a reliable manner, without requiring human operators. A case guard is provided as standard equipment.

| Item Code | Thread | Price |
|-----------|--------|---------|
| | inch | Per Nos |
| AD402-04 | 1/2" | 1280 |

WARNING:

- Operate the compressor above 3.7kW {400 L/min (ANR)}.
- Use the AD402 at an operating pressure above 0.1 Mpa.



PIPING WARNING : Piping should be done under the following conditions in order to prevent malfunction.

- For drain piping, use a pipe whose I.D. is not less than 10mm & length not more than 5m.
- Avoid riser piping

WATER FILTER

The microbiological safety and control of the water used in dental practice has a critical importance for avoiding cross-linked infections in the dental office.

→ HSN 842139



| Item Code | Thread | Price |
|-----------|--------|---------|
| | inch | Per Nos |
| WF-12 | 1/2" | 1545 |

**Specially used in Dental Chair

OIL MIST SEPARATOR

Features :

- **Phoenix** Oil Removal Filters provide optimum performance in minimum space.
- Conditions air to technically oil free standard.
- Coalescing element removes sub-micron particles and converts oil and water mist to liquid form to drain away

Note : Recommended Use Pre-Filter with 5 micron element.



| Item Code | Thread | Price |
|-----------|--------|---------|
| | inch | Per Nos |
| ORF-12 | 1/2" | 2275 |

→ HSN 842139

SPARES FOR FRL SMC TYPE



Filter Bowl



Lubricator Bowl



Regulator Cap



Oil Cap

| For | Size |
|----------|------|
| Model | |
| AFRL-206 | 1/4" |
| AFRL-210 | 3/8" |
| AFRL-212 | 1/2" |
| AFRL-219 | 3/4" |
| AFRL-225 | 1" |

| Item | Price |
|--------|---------|
| Code | Per Nos |
| AFB-06 | 225 |
| AFB-10 | 300 |
| AFB-12 | 380 |
| AFB-19 | 380 |
| AFB-25 | 380 |

HSN 842139

| Item | Price |
|--------|---------|
| Code | Per Nos |
| ALB-06 | 225 |
| ALB-10 | 290 |
| ALB-12 | 380 |
| ALB-19 | 380 |
| ALB-25 | 380 |

HSN 848120

| Item | Price |
|--------|---------|
| Code | Per Nos |
| ARC-06 | 180 |
| ARC-10 | 245 |
| ARC-12 | 250 |
| ARC-19 | 250 |
| ARC-25 | 250 |

HSN 848120

| Item | Price |
|--------|---------|
| Code | Per Nos |
| AOC-06 | 195 |
| AOC-10 | 195 |
| AOC-12 | 195 |
| AOC-19 | 195 |
| AOC-25 | 195 |

HSN 848120



Element
25 micron



Regulator
Diaphragm



Pressure Gauge
0 to 10 kg

| For | Size |
|----------|------|
| Model | |
| AFRL-206 | 1/4" |
| AFRL-210 | 3/8" |
| AFRL-212 | 1/2" |
| AFRL-219 | 3/4" |
| AFRL-225 | 1" |

| Item | Price |
|--------|---------|
| Code | Per Nos |
| AEL-06 | 150 |
| AEL-10 | 290 |
| AEL-12 | 350 |
| AEL-19 | 350 |
| AEL-25 | 690 |

HSN 848120

| Item | Price |
|--------|---------|
| Code | Per Nos |
| ARD-06 | 175 |
| ARD-10 | 290 |
| ARD-12 | 340 |
| ARD-19 | 340 |
| ARD-25 | 340 |

HSN 848120

| Item | Bk. Conn | Price |
|-------|----------|---------|
| Code | Thread | Per Nos |
| G4001 | 1/8" | 185 |
| G5002 | 1/4" | 235 |

HSN 848120



'H' BRACKET



'T' BRACKET

| For | Size |
|----------|------|
| Model | |
| AFRL-206 | 1/4" |
| AFRL-210 | 3/8" |
| AFRL-212 | 1/2" |
| AFRL-219 | 3/4" |
| AFRL-225 | 1" |

| Item | Price |
|--------|---------|
| Code | Per Nos |
| HBK-06 | 270 |
| HBK-10 | 300 |
| HBK-12 | 375 |
| HBK-19 | 405 |
| HBK-25 | 540 |

HSN 848120

| Item | Price |
|--------|---------|
| Code | Per Nos |
| TBK-06 | 270 |
| TBK-10 | 300 |
| TBK-12 | 375 |
| TBK-19 | 405 |
| TBK-25 | 540 |

HSN 848120

The 'IR' Series is precision pressure reducing valve.

→ **HSN 848120**

- Sensivity : 0.2%
- Repeat Accuracy : 5%
- Rated Flow : 1100 L/min
- Air Consumption : 4 L/min at 10kg pressure
- Ambient Temperature : -5°C to 60°C



| Item Code | Thread | Set Pressure Range | Price |
|-----------|--------|--------------------|---------|
| | inch | Kg/cm ² | Per Nos |
| IR1000-01 | 1/8" | 0.5-2 | — |
| IR2000-02 | 1/4" | 0.5-2 | 2995 |

PHOENIX

Airline Equipments - AIRTAC Type

AIRTAC Type 'B' Series



BFRL-206



BFRL-212

→ **HSN 842139**

| Item Code | Thread | Price |
|-----------|--------|---------|
| | inch | Per Nos |
| BFRL-206 | 1/4" | 995 |
| BFRL-212 | 1/2" | 2010 |



BFR-06



BFR-12

→ **HSN 842139**

| Item Code | Thread | Price |
|-----------|--------|---------|
| | inch | Per Nos |
| BFR-06 | 1/4" | 640 |
| BFR-12 | 1/2" | 1240 |



BR-06



BR-12

→ **HSN 848120**

| Item Code | Thread | Price |
|-----------|--------|---------|
| | inch | Per Nos |
| BR-06 | 1/4" | 490 |
| BR-12 | 1/2" | 775 |



BF-06



BF-12

→ **HSN 842139**

| Item Code | Thread | Price |
|-----------|--------|---------|
| | inch | Per Nos |
| BF-06 | 1/4" | 330 |
| BF-12 | 1/2" | 775 |

SPARES FOR FRL AIRTAC Type 'B' Series



Filter Bowl



Lubricator Bowl



Regulator Cap



Oil Cap

| For | Size |
|----------|------|
| Model | |
| BFRL-206 | 1/4" |
| BFRL-212 | 1/2" |

| Item | Price |
|--------|---------|
| Code | Per Nos |
| BFB-06 | 175 |
| BFB-12 | 325 |

HSN 842139

| Item | Price |
|--------|---------|
| Code | Per Nos |
| BLB-06 | 225 |
| BLB-12 | 380 |

HSN 848120

| Item | Price |
|--------|---------|
| Code | Per Nos |
| BRC-06 | 150 |
| BRC-12 | 225 |

HSN 848120

| Item | Price |
|--------|---------|
| Code | Per Nos |
| BOC-06 | 195 |
| BOC-12 | 195 |

HSN 848120

FESTO Type 'D' Series

PHOENIX 'D' Series airline equipment provides pressure regulators and air filtration performance for your pneumatic system. Space-saving design with filter and regulator in a single unit. Good particle separation and high flow rate. Good regulating characteristics with minimal hysteresis.

Fluid : Air

Ambient & fluid temperature : -10 to 60°C

Max. operating pressure : 16 bar

Set pressure range (DR) : 0.5 to 1.2 bar

Nominal filtration rating (DF) : 40 micron

Recommended Lubricant (AL) : Class 1 Turbine Oil (ISO VG32)

Bowl Material (DF) : Polycarbonate

Bowl guard (DF) : Aluminium



DC



DFR



DR

| Item Code | Thread | (L/min) | HSN | Price |
|------------|--------|------------|--------|---------|
| | inch | Rated flow | | Per Nos |
| DC201A-02 | 1/4" | 1400 | 842139 | 2990 |
| DFR200A-02 | 1/4" | 1400 | 848120 | 1850 |
| DR200A-02 | 1/4" | 1400 | 848139 | 1395 |

| Item Code | Thread | (L/min) | HSN | Price |
|------------|--------|------------|--------|---------|
| | inch | Rated flow | | Per Nos |
| DC401A-04 | 1/2" | 3400 | 842139 | 4890 |
| DFR400A-04 | 1/2" | 3400 | 848120 | 3250 |
| DR400A-04 | 1/2" | 3400 | 848139 | 2580 |

PHOENIX

Airline Equipments – 'Q' Series

The **'Q' Series** is Clean looking, modular design, It has high flow rate with energy saving technology. It can be used for high pressure application.



Filter



Regulator



Lubricator

| Item Code | Thread | Price |
|-----------|--------|---------|
| | inch | Per Nos |
| QSL-15 | 1/2" | — |
| QSL-25 | 1" | — |
| QSL-40 | 1-1/2" | 3395 |
| QSL-50 | 2" | — |

→ **HSN 842139**

| Item Code | Thread | Price |
|-----------|--------|---------|
| | inch | Per Nos |
| QTY-15 | 1/2" | 1050 |
| QTY-25 | 1" | 1900 |
| QTY-40 | 1-1/2" | 3395 |
| QTY-50 | 2" | — |

→ **HSN 848120**

| Item Code | Thread | Price |
|-----------|--------|---------|
| | inch | Per Nos |
| QIU-15 | 1/2" | — |
| QIU-25 | 1" | — |
| QIU-40 | 1-1/2" | 3395 |
| QIU-50 | 2" | — |

→ **HSN 842139**

The **'H' Series** is high pressure series airline equipment.

- Range of Adjustable Pressure : 0.5 to 35 kg (0.05~3.2 Mpa)
- Max. Input Pressure : 40kg (4MPa)
- Operating Temperature : -25°C to +80°C

→ **HSN 848120**



Regulator without Gauge

| Item Code | Thread | Price |
|-----------|--------|---------|
| | inch | Per Nos |
| QTYH-15 | 1/2" | 2100 |

To protect your expensive pneumatic instruments at your factory. You have compressors to develop pneumatic pressure. The fresh atmospheric air sucked by the compressor gets partly converted into moisture. The compression of the air helps it to convert in moisture due to condensation. If this moisture (water) is not separated, it will obstruct the path of fresh air.

Of course, you keep a dryer to get rid of it. But this dryer is near the compressor. As the fresh air travels further, the condensation occurs again and more moisture precipitates; which in turn harms your apparatus.

Install "**PHOENIX**" Moisture Separator beside the different machines. It won't allow moisture to enter your apparatus, thus protecting its internal parts, particularly rubber parts. The Moisture sometimes creates hazards to your machines. "**PHOENIX**" Moisture Separator will enhance the life span of your machine.

Cartridge: Imported S.S.

Working Pressure: Upto 10 Bar

Efficiency: 99.99%

Testing Pressure: 12 Bar

Service Life: Long Service Life

Drain: Manual Ball Valve in 1/4"



| Item Code | | Thread | Price |
|-----------|---------|--------|---------|
| | | inch | Per Nos |
| COMBO | 75 SCFM | 1/2" | 3185 |