

Series PFH(U)2~PFH(U)5

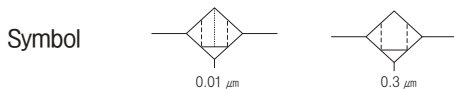
Coalescing Filter 1/8", 1/4", 3/8", 1/2", 3/4" and 1"



Standard Specifications

| Description | PFH/PFU2 | PFH/PFU3 | PFH/PFU4 | PFH/PFU5 | |
|------------------------------------|------------------------|---------------|---------------|-------------|-------------|
| Max. Operating Pressure (MPa) | 1.0(140psi) | | | | |
| Proof Pressure (MPa) | 1.5(200psi) | | | | |
| Ambient and Fluid Temperature (°C) | -5 ~ 60 (Non-freezing) | | | | |
| Flow Capacity ※ | 1/8" ~ 200 | 1/4" ~ 450 | 3/8" ~ 1100 | 3/4" ~ 1100 | |
| (N l /min) | 1/4" (7scfm) | 3/8" (16scfm) | 1/2" (39scfm) | 1" (39scfm) | |
| Bowl Material | Polycarbonate | | | | |
| Bowl Guard Material | Nylon | | | | |
| Filtration (µm) | PFH : 0.3, PFU : 0.01 | | | | |
| Drain | Manual | 15(0.51oz) | 38(1.28oz) | 56(1.89oz) | 156(5.27oz) |
| Capacity (cm ³) | Auto | 21(0.71oz) | 30(1.01oz) | 68(2.3oz) | 174(5.88oz) |
| Weight (kg) | 0.14(0.31oz) | 0.24(0.53oz) | 0.5(1.1oz) | 1.1(2.43oz) | |

※ Test conditions : Supply pressure 0.6MPa(90psi), pressure drop 0.07MPa(10psi)



How to Order

PFH 4 — * 04 B D — *

Coalescing Filter

| | |
|-----|----------------------------------|
| PFH | HEPA Filter (Filtration 0.3µm) |
| PFU | Ultra Filter (Filtration 0.01µm) |

Series

| | | | |
|---|------------|---|------------|
| 2 | PC2 Series | 4 | PC4 Series |
| 3 | PC3 Series | 5 | PC5 Series |

Thread

| | |
|-------|--------|
| Blank | Rc(PT) |
| N | NPT |
| G | G(PF) |

Port Size

| | | |
|----|-----|--------------|
| 01 | 1/8 | PC2 Series |
| 02 | 1/4 | PC2,3 Series |
| 03 | 3/8 | PC3,4 Series |
| 04 | 1/2 | PC4 Series |
| 06 | 3/4 | PC5 Series |
| 10 | 1 | PC5 Series |

Other Option

| Symbol | Description | Applicable Series |
|--------|-----------------------------|-------------------|
| L | Life Indicator | PC4~5 Series |
| R | Flow direction : Right→Left | PC2~5 Series |
| XC16 | Copper-free | PC2~5 Series |

Drain Option

| Symbol | Description | Applicable Series |
|--------|-------------------------------|-------------------|
| Blank | Manual Drain | PC2~PC5 |
| D | Auto Drain (N.O Type) | PC2~PC5 |
| D2 | Auto Drain (Piping Exhaust) | PC2 |
| D5 | Manual Drain (Piping Exhaust) | PC2 |

Note1) Min. operating pressure is 0.15MPa(20psi) for Auto Drain (N.O Type)

Bracket Option

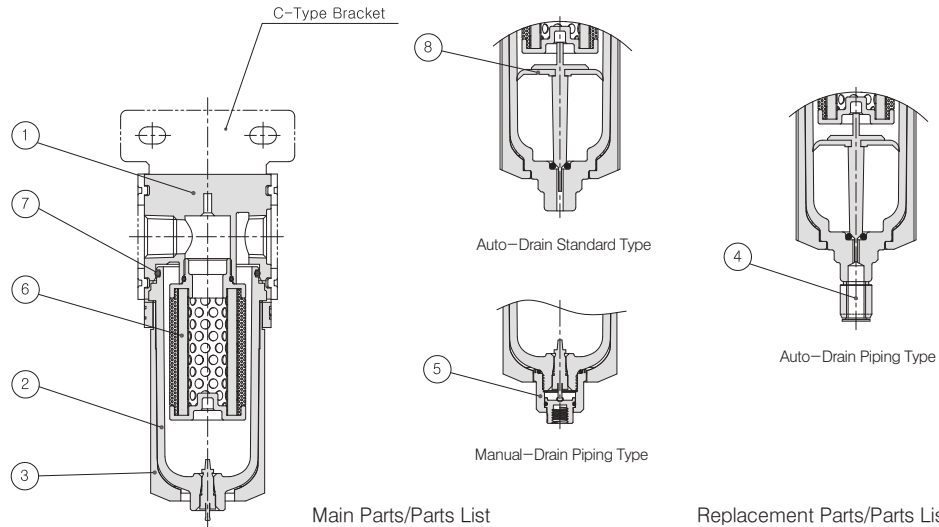
| | |
|-------|---------|
| Blank | None |
| B | Bracket |

Note2) Separately packed, Not assembled.

- PC2
- PF2
- PR2
- PL2
- PP2
- PC3
- PF3
- PR3
- PL3
- PP3
- PC4
- PF4
- PR4
- PL4
- PP4
- PC5
- PF5
- PR5
- PL5
- PP5
- PFH(U)2~PFH(U)5
- PPH(U)3~PPH(U)4
- PLV
- PSH
- PCV
- MB

Series PFH(U)2~PFH(U)5

PFH2 Construction



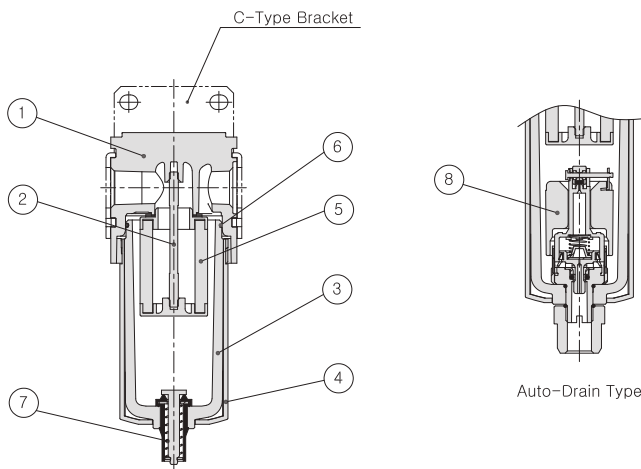
Main Parts/Parts List

| NO. | Description | Material | Remark |
|-----|---------------------------|---------------|--------|
| ① | Body | Aluminum | |
| ② | Bowl | Polycarbonate | |
| ③ | Bowl Guard | Nylon | |
| ④ | Fitting | - | |
| ⑤ | Manual Drain Piping Ass'y | - | |

Replacement Parts/Parts List

| NO. | Description | Material | Part No. |
|-----|---------------------------------|----------|----------------|
| ⑥ | Coalescing Filter Element Ass'y | - | PFH2-24A030-01 |
| ⑦ | Bowl O-ring | NBR | DX2R-53-3000 |
| ⑧ | Auto Drain Ass'y | - | PF2-26A002-01 |

PFH3 Construction



Main Parts/Parts List

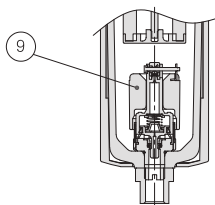
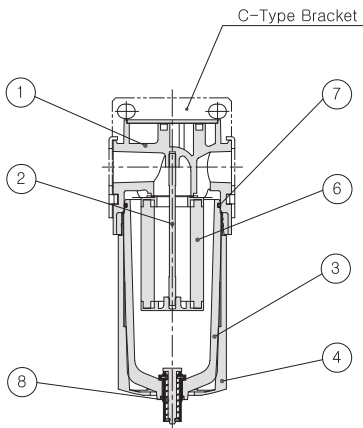
| NO. | Description | Material | Remark |
|-----|--------------|---------------|--------|
| ① | Body | Aluminum | |
| ② | Baffle Shaft | Rolled Steel | |
| ③ | Bowl | Polycarbonate | |
| ④ | Bowl Guard | Nylon | |

Replacement Parts/Parts List

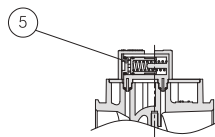
| NO. | Description | Material | Part No. |
|-----|---------------------------------|----------|-------------------|
| ⑤ | Coalescing Filter Element Ass'y | - | PFH3000-005A-6081 |
| ⑥ | Bowl O-ring | NBR | PL3-04-001-01 |
| ⑦ | Drain Ass'y | - | TAF3000-10A-6004 |
| ⑧ | Auto Drain Ass'y | - | TAF3000-04A-6008 |

Series PFH(U)2~PFH(U)5

PFH4 Construction



Auto-Drain Type



Life Indicator Type

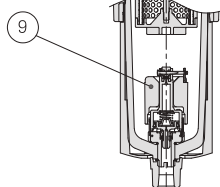
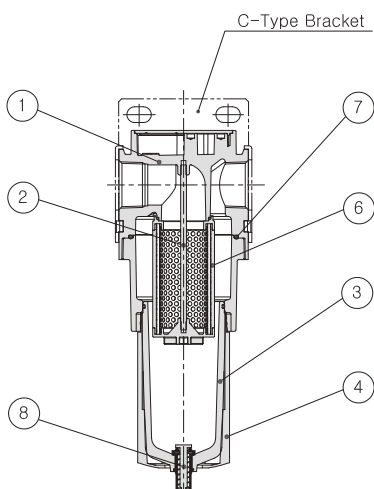
Main Parts/Parts List

| NO. | Description | Material | Remark |
|-----|----------------|---------------|--------|
| ① | Body | Aluminum | |
| ② | Baffle Shaft | Rolled Steel | |
| ③ | Bowl | Polycarbonate | |
| ④ | Bowl Guard | Nylon | |
| ⑤ | Life Indicator | - | Option |

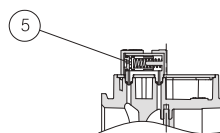
Replacement Parts/Parts List

| NO. | Description | Material | Part No. |
|-----|---------------------------------|----------|-------------------|
| ⑥ | Coalescing Filter Element Ass'y | - | PFH4000-005A-6083 |
| ⑦ | Bowl O-ring | NBR | TAF4000-08-6000 |
| ⑧ | Drain Ass'y | - | TAF3000-10A-6004 |
| ⑨ | Auto Drain Ass'y | - | TAF3000-04A-6008 |

PFH5 Construction



Auto-Drain Type



Main Parts/Parts List

| NO. | Description | Material | Remark |
|-----|----------------|---------------|--------|
| ① | Body | Aluminum | |
| ② | Baffle Shaft | Rolled Steel | |
| ③ | Bowl | Polycarbonate | |
| ④ | Bowl Guard | Nylon | |
| ⑤ | Life Indicator | - | Option |

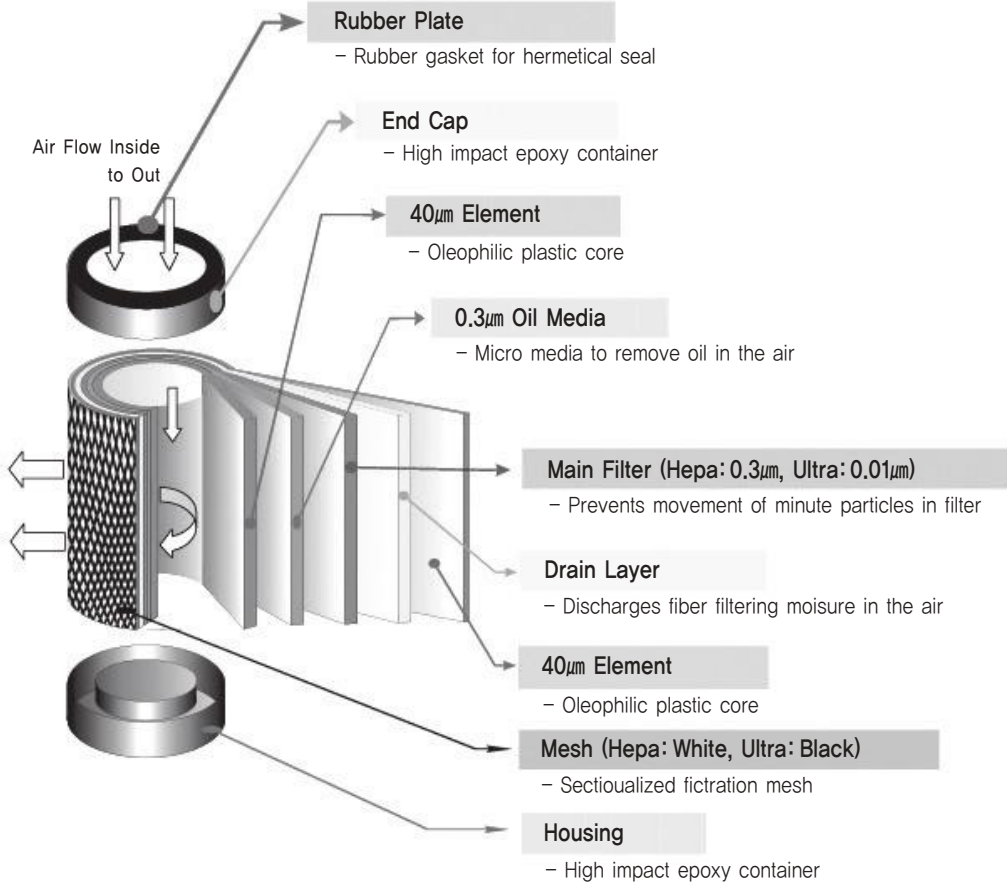
Replacement Parts/Parts List

| NO. | Description | Material | Part No. |
|-----|---------------------------------|----------|------------------|
| ⑥ | Coalescing Filter Element Ass'y | - | PFH5-24A030-01 |
| ⑦ | Bowl O-ring | NBR | TAF4000-08-6000 |
| ⑧ | Drain Ass'y | - | TAF3000-10A-6004 |
| ⑨ | Auto Drain Ass'y | - | TAF3000-04A-6008 |

- PC2
- PF2
- PR2
- PL2
- PP2
- PC3
- PF3
- PR3
- PL3
- PP3
- PC4
- PF4
- PR4
- PL4
- PP4
- PC5
- PF5
- PR5
- PL5
- PP5
- PFH(U)2~PFH(U)5
- PPH(U)3~PPH(U)4
- PLV
- PSH
- PCV
- MB

Series PFH(U)2~PFH(U)5

Construction of Coalescing Filter Element

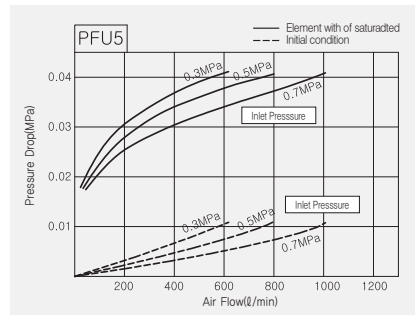
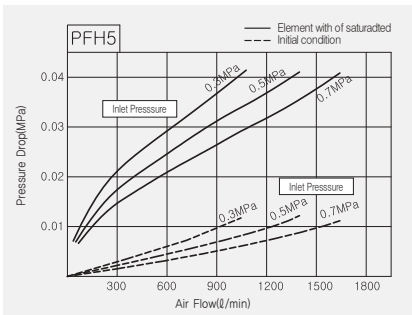
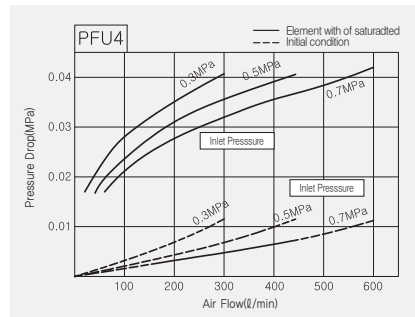
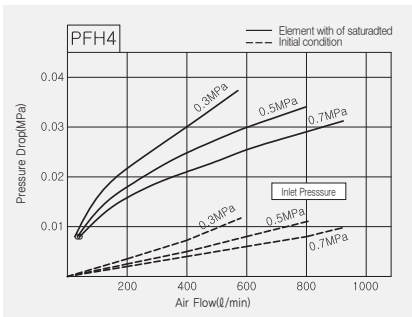
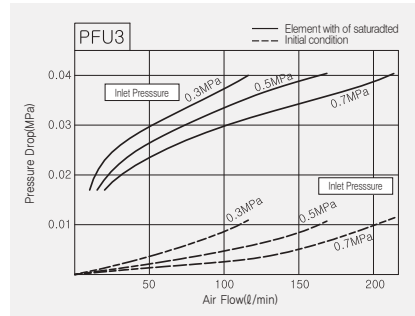
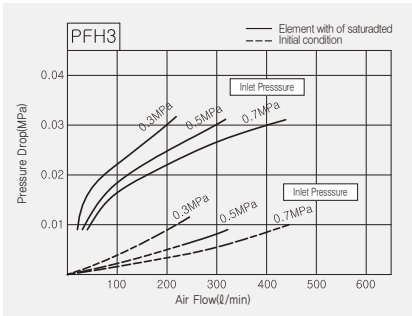
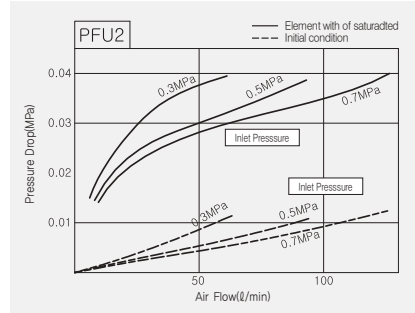
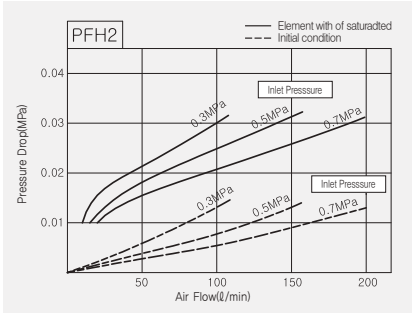


Media Characteristics

| NO | Grade | D.O.P Efficiency 0.3 to 0.6 μ m | Oil Content | Color |
|----|--------------|-------------------------------------|-------------|-------|
| 1 | 0.01 μ m | 99.99% | 0.01ppm | White |
| 2 | 0.3 μ m | 99.97% | 0.05ppm | Black |

Series PFH(U)2~PFH(U)5

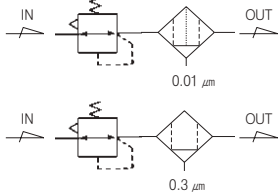
Flow Characteristics



- PC2
- PF2
- PR2
- PL2
- PP2
- PC3
- PF3
- PR3
- PL3
- PP3
- PC4
- PF4
- PR4
- PL4
- PP4
- PC5
- PF5
- PR5
- PL5
- PP5
- PFH(U)2~PFH(U)5**
- PPH(U)3~PPH(U)4
- PLV
- PSH
- PCV
- MB

Series PPH(U)3, PPH(U)4

Piggyback Coalescing Filter 1/4", 3/8" and 1/2"



Standard Specifications

| Series | PPH/PPU3 | PPH/PPU4 |
|------------------------------------|---|-----------------------------|
| Max. Operating Pressure (MPa) | 1 (140psi) | |
| Proof Pressure (MPa) | 1.5 (200psi) | |
| Set Pressure | Standard 0.05 ~ 1.0 (7~140psi) | |
| Range(MPa) | Madd to Order Specifications 0.05~1.2(7~170psi) | 0.05~1.5(7~200psi) |
| Ambient and Fluid Temperature (°C) | -5 ~ 60(7~140psi) (Non-freezing) | |
| Flow Capacity (N ℓ /min) ※ | 1/4" and 3/8" ~ 300(11scfm) | 3/8" and 1/2" ~ 800(28scfm) |
| Filtration (μm) | PPH : 0.3, PPU : 0.01 | |
| Construction | Relieving Style | |
| Bowl Material | Polycarbonate | |
| Bowl Guard Material | Nylon | |
| Drain | Manual 38(1.28oz) | 56(1.89oz) |
| Capacity (cm ³) | Auto 30(1.01oz) | 68(2.3oz) |
| Weight (kg) | 0.49(1.08oz) | 0.74(1.63oz) |

※ Test conditions : Supply pressure 0.7MPa(100psi), pre-set pressure 0.6MPa(90psi)

How to Order

PPH 4 — * 04 B D G — *

Piggyback Coalescing Filter

| | |
|-----|----------------------------------|
| PPH | HEPA Filter (Filtration 0.3μm) |
| PPU | Ultra Filter (Filtration 0.01μm) |

Series

| | |
|---|------------|
| 3 | PC3 Series |
| 4 | PC4 Series |

Thread

| | |
|-------|--------|
| Blank | Rc(PT) |
| N | NPT |
| G | G(PF) |

Port Size

| | | |
|----|-----|---------------|
| 02 | 1/4 | PC3 Series |
| 03 | 3/8 | PC3, 4 Series |
| 04 | 1/2 | PC4 Series |

Bracket Option

| | | |
|-------|---------------------|--------|
| Blank | None | Note2) |
| B | Bracket + Panel Nut | |
| B1 | Panel Nut | |

Note2) Separately packed, Not assembled.

Other Option

| | | |
|-------|----------------------------------|----------|
| Blank | Set at 0 to 1.0 MPa | Note1,2) |
| 12 | Set at 0 to 1.2 MPa (PC3 Series) | |
| 15 | Set at 0 to 1.5 MPa (PC4 Series) | |
| E | Non-Relieving Type | |
| R | Flow direction : Right→ Left | |
| T | Tamper Resistant Kit | |
| XC16 | Copper-free | |

Note1) Refer to page 935 for Tamper Resistant Kit.
 * If ordering more than one option, indicate symbols numerically then alphabetically Ex) 12RT
 * Over Max. pressure value can be set.

Pressure Gauge

| Symbol | Description | Pressure Range |
|--------|---|----------------|
| Blank | None | |
| G | Integral Pressure Gauge (W/Limit Indicator) | 1.0MPa |
| P | Pressure Range | 1.0MPa |
| P2 | Pressure Range | 0.2MPa |
| P4 | Pressure Range | 0.4MPa |

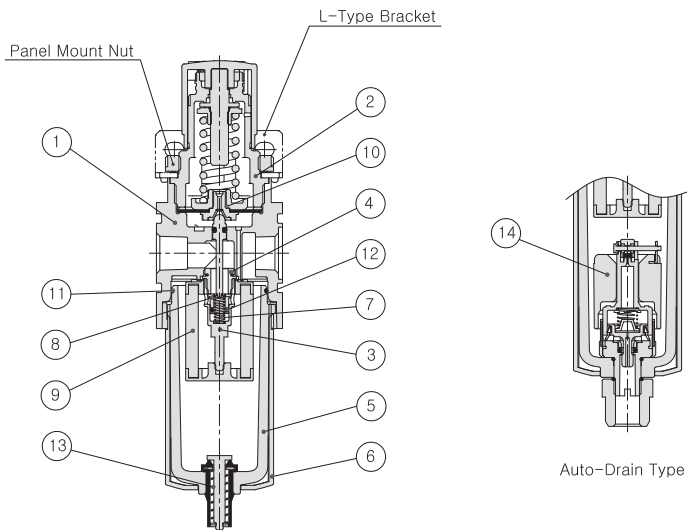
Drain Option

| | | |
|-------|-----------------------|--------|
| Blank | Manual Push Drain | Note3) |
| D | Auto Drain (N.O Type) | |

Note3) Min. operating pressure is 0.15MPa(20psi) for Auto Drain (N.O Type)

Series PPH(U)3, PPH(U)4

PPH3/PPU3 Construction



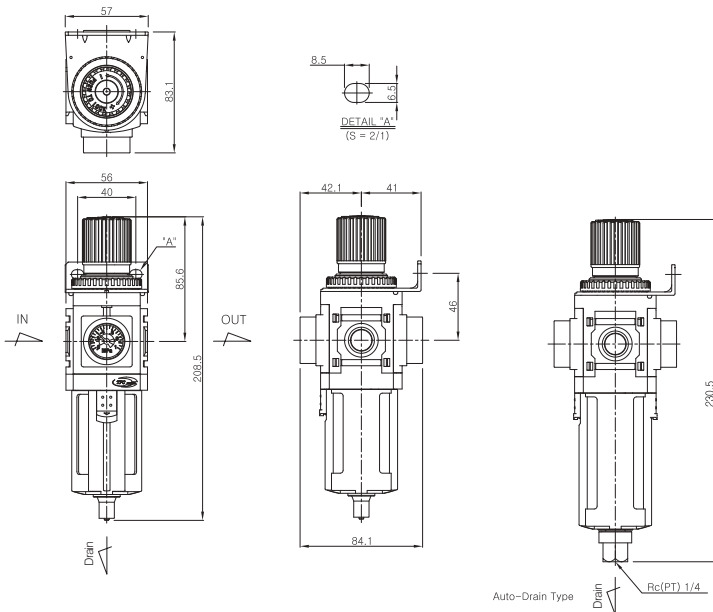
Main Parts/Parts List

| NO. | Description | Material | Remark |
|-----|--------------|-----------------|--------|
| ① | Body | Aluminum | |
| ② | Bonnet | Nylon | |
| ③ | Valve Guide | Aluminum | |
| ④ | Insert | Aluminum | |
| ⑤ | Bowl | Polycarbonate | |
| ⑥ | Bowl Guard | Nylon | |
| ⑦ | Valve Spring | Stainless Steel | |

Replacement Parts/Parts List

| NO. | Description | Material | Part No. |
|-----|-------------------------|-----------|-------------------|
| ⑧ | Valve ass'y | Brass+NBR | PPH3-08A001-01 |
| ⑨ | Coalescing Filter Ass'y | - | PFH3000-005A-6081 |
| ⑩ | Diaphragm Ass'y | Nylon+NBR | PR3-11A001-01 |
| ⑪ | Bowl O-ring | NBR | PL3-04-001-01 |
| ⑫ | Valve O-ring | NBR | S6-01 |
| ⑬ | Drain Ass'y | - | TAF3000-10A-6004 |
| ⑭ | Auto-Drain Ass'y | - | TAF3000-01A-6008 |

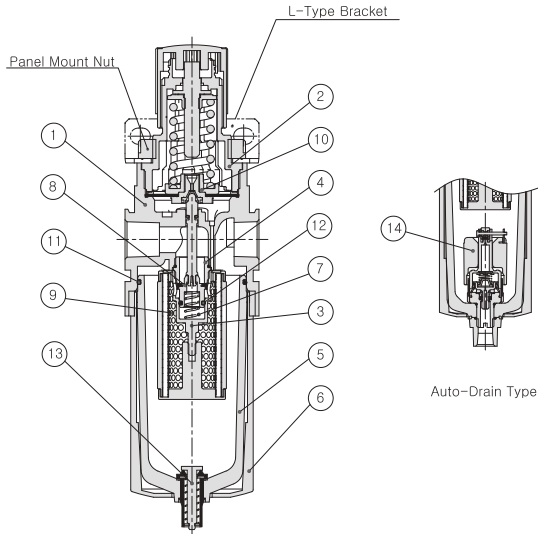
PPH3/PPU3 Dimensions



- PC2
- PF2
- PR2
- PL2
- PP2
- PC3
- PF3
- PR3
- PL3
- PP3
- PC4
- PF4
- PR4
- PL4
- PP4
- PC5
- PF5
- PR5
- PL5
- PP5
- PPH(U)2~
PPH(U)5
- PPH(U)3~
PPH(U)4
- PLV
- PSH
- PCV
- MB

Series PPH(U)3, PPH(U)4

PPH4/PPU4 Construction



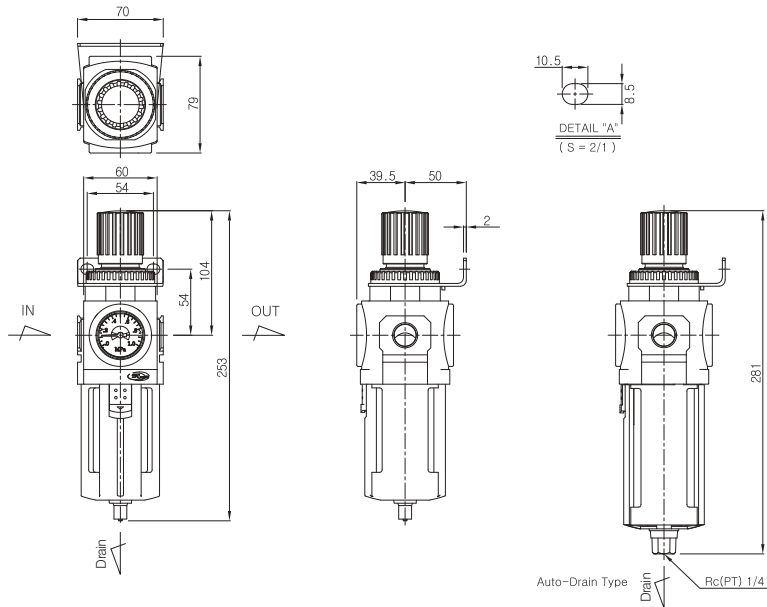
Main Parts/Parts List

| NO. | Description | Material | Remark |
|-----|--------------|-----------------|--------|
| ① | Body | Aluminum | |
| ② | Bonnet | Nylon | |
| ③ | Valve Guide | Aluminum | |
| ④ | Insert | Aluminum | |
| ⑤ | Bowl | Polycarbonate | |
| ⑥ | Bowl Guard | Nylon | |
| ⑦ | Valve Spring | Stainless Steel | |

Replacement Parts/Parts List

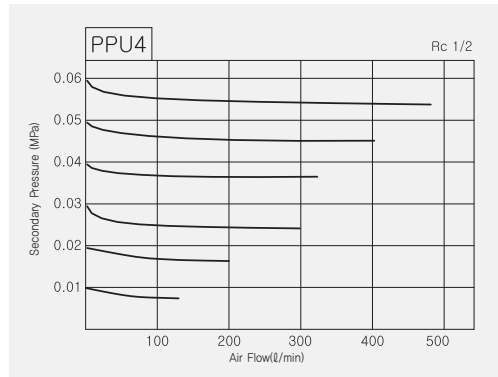
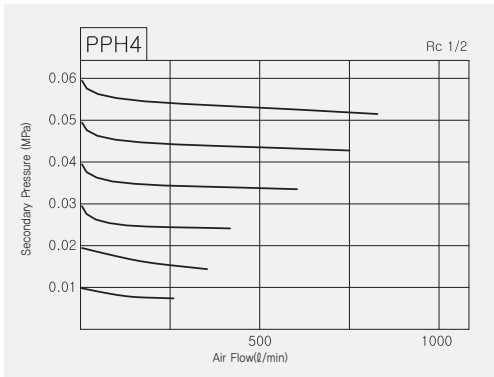
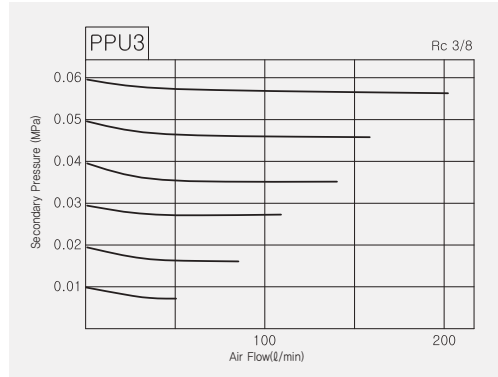
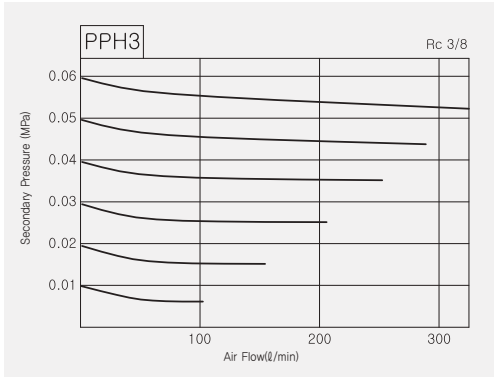
| NO. | Description | Material | Part No. |
|-----|------------------------|-----------|------------------|
| ⑧ | Valve Assy | Nylon+NBR | PP3-08A001-01 |
| ⑨ | Coalescing Filter Assy | - | PPH4-24A030-01 |
| ⑩ | Diaphragm Assy | Nylon+NBR | PR4-11A001-01 |
| ⑪ | Bowl O-ring | NBR | TAF4000-08-6000 |
| ⑫ | Valve O-ring | NBR | P10-01 |
| ⑬ | Drain Assy | - | TAF3000-10A-6004 |
| ⑭ | Auto-Drain Assy | - | TAF3000-01A-6008 |

PPH4/PPU4 Dimensions



Series PPH(U)3, PPH(U)4

Flow Characteristics



PC2

PF2

PR2

PL2

PP2

PC3

PF3

PR3

PL3

PP3

PC4

PF4

PR4

PL4

PP4

PC5

PF5

PR5

PL5

PP5

PFH(U)2~
PFH(U)5

**PPH(U)3~
PPH(U)4**

PLV

PSH

PCV

MB