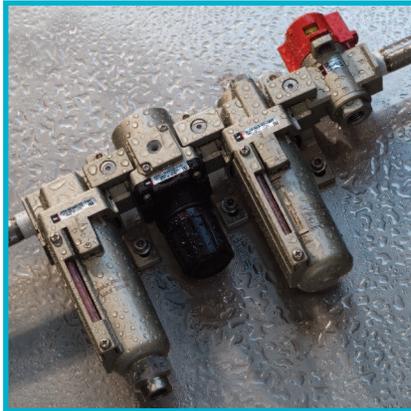




SMC Corporation of America
 10100 SMC Boulevard
 Noblesville, IN 46060
 www.smcusa.com

P.G. Information

Epoxy Coated F.R.L. Units



*AC21/31/41-***-*-X2217*
*AF20/30/40-***-*-X480*
*AR20/30/40-***-*-X48*
*AL20/30/40-***-*-X480*
*AW20/30/40-***-*-X48*
*VHS20/30/40-***-*-X513*
Y20/30/40-T4*

Application: Air preparation in an environment that requires enhanced corrosion protection.

Feature 1: Die cast aluminum components are epoxy coated for improved chemical resistance.

Feature 2: Steel external hardware is replaced with stainless steel for improved chemical resistance.

Comparison with Standard Product:

- 1) Functional performance is equivalent to standard product.
- 2) Product withstood salt spray testing per ASTM B117-07A with excellent results (See test results on page 12). Improved performance vs. other chemicals is anticipated but has not been verified.

Applications:

- Marine environments
- Water splash zone in various processes
- Washdown in food plants (non-food or splash zone only)

Related Products:

- KQG Series - 316 SUS One-touch Fittings - Coming Soon: KQG2
- KQB2 Series - Ni plated brass One-touch Fittings (Coming Soon)
- ASG Series - 316 SUS One-touch Speed Controls
- CG5 Series - repairable 304 SUS Cylinder
- NCM Series with X6009 option - crimped body 304 SUS Cylinder, domestic interchange
- CJ5 Series - crimped body 304 SUS Cylinder
- HY Series - Aluminum body Hygienic Design Actuators

How To Order

AC 31 B - N 03 D - V - 8 Y Z - X2217

Air Combination Unit

Body Size

| Symbol | Size |
|--------|------|
| 21 | 1/8 |
| 31 | 3/8 |
| 41 | 1/2 |

Model Combination

| Symbol | Model / Assembly Order |
|--------|------------------------|
| Nil | AF + AR + AL |
| A | AW + AL |
| B | AF + AR |

NPT Threads

Port Size

| Symbol | Port Size | Applicable Body Size |
|--------|-----------|----------------------|
| 02 | 1/4 | 21 |
| 03 | 3/8 | 31 |
| 04 | 1/2 | 41 |

Note: Other sizes, thread forms, options, etc. may be possible, please contact SMC for availability.

• With External Epoxy Coating, Stainless Fasteners

• Name Plate, Caution Plate On Bowl in psi, °F

• Regulator Handle Orientation

| Symbol | Description |
|--------|-----------------|
| Nil | Downward Handle |
| Y | Upward Handle |

• Bowl

| Symbol | Description | Applicable Body Size |
|--------|-----------------------------|----------------------|
| 2 | Metal Bowl | 21 |
| 8 | Metal Bowl With Sight Glass | 31, 41 |

• Residual Pressure Relief Valve

| Symbol | Description | Applicable Model Combo |
|--------|-----------------------|------------------------|
| Nil | Without Valve | All |
| V | With Downstream Valve | All |

• Accessories

| Symbol | Description | Applicable Body Size |
|--------|-------------------------|----------------------|
| Nil | None | All |
| C | Float Auto Drain (N.C.) | 31, 41 |
| D | Float Auto Drain (N.O.) | 31, 41 |

Specifications



| | 21 | 31 | 41 |
|---------------------------------|---|------------------------|----------|
| Body size | 21 | 31 | 41 |
| Operating specifications | Same as standard - see catalog ES40-42D or NC160A | | |
| Port size | 1/4" NPT | 3/8" NPT | 1/2" NPT |
| Auto drain port (AF, AW) | N/A | 1/4" NPT | |
| Bowl type (AF, AL, AW) | Metal | Metal with sight gauge | |
| Body material | Die cast aluminum | | |
| Bowl material (AF, AL, AW) | Die cast aluminum | | |
| Body, Bowl surface treatment | Epoxy resin coating | | |
| Bonnet (AR, AW) | Polyacetal | | |
| Manual drain (AF, AW) | POM | | |
| External screws | Stainless steel 410 | | |
| Individual mounting brackets | Epoxy coated steel | | |
| Panel mount nut (AR, AW) | POM | | |
| Connector brackets (AC) | Die cast zinc (epoxy coated) | | |
| Fill plug (AL) | Stainless steel 304 | | |
| Sight dome (AL) | Polycarbonate | | |
| Sight glass hardware (AF,AL,AW) | Stainless steel 304 | | |

Dimensions - Refer to drawings on page 3

| AC | A* | AA** | B | C | E | F | G | J | K | M | N | Q | U | V | W |
|------|-----|------|-----|----|----|------|----|------|-----|----|----|----|---|----|------|
| AC21 | 140 | 190 | 160 | 73 | — | 45.5 | 40 | 26 | 5 | 30 | 51 | 24 | 5 | 33 | — |
| AC31 | 181 | 245 | 220 | 86 | 30 | 58.5 | 55 | 29.5 | 3.5 | 41 | 64 | 35 | 7 | 45 | 34.5 |
| AC41 | 238 | 322 | 239 | 92 | 38 | 75.5 | 80 | 37.5 | 1.5 | 50 | 81 | 40 | 7 | 50 | 41 |

* Without relief valve option ** With relief valve option

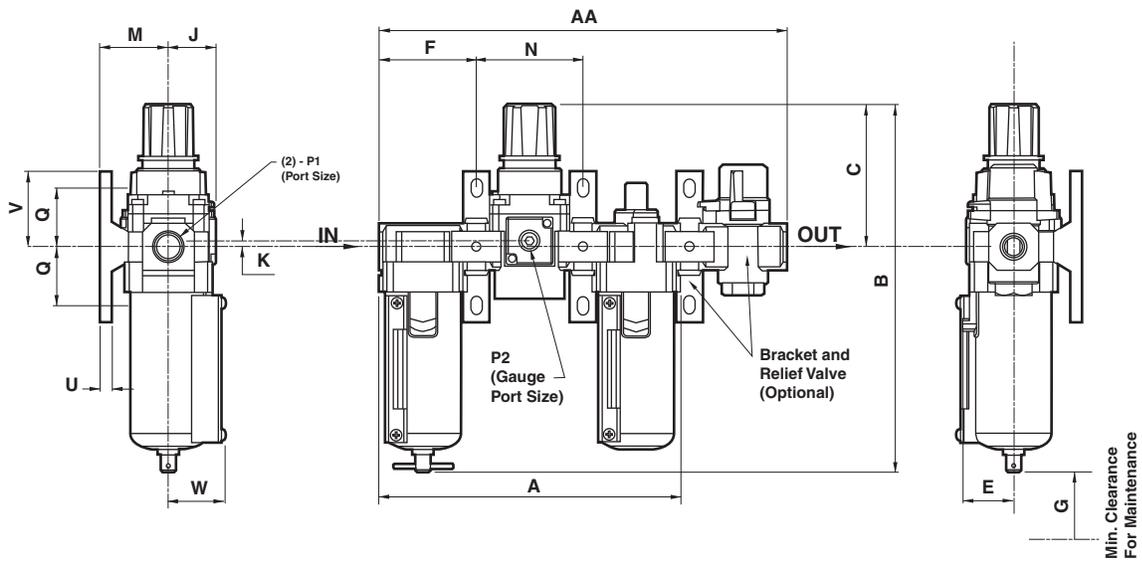
| AC-A | A* | AA** | B | C | E | F | G | J | K | M | N | Q | U | V | W |
|-------|-----|------|-----|----|----|------|----|------|-----|----|----|----|---|----|------|
| AC21A | 90 | 140 | 160 | 73 | — | 45.5 | 40 | 26 | 5 | 30 | 51 | 24 | 5 | 33 | — |
| AC31A | 117 | 181 | 220 | 86 | 30 | 58.5 | 55 | 29.5 | 3.5 | 41 | 64 | 35 | 7 | 45 | 34.5 |
| AC41A | 154 | 238 | 239 | 92 | 38 | 75.5 | 80 | 37.5 | 1.5 | 50 | 81 | 40 | 7 | 50 | 41 |

* Without relief valve option ** With relief valve option

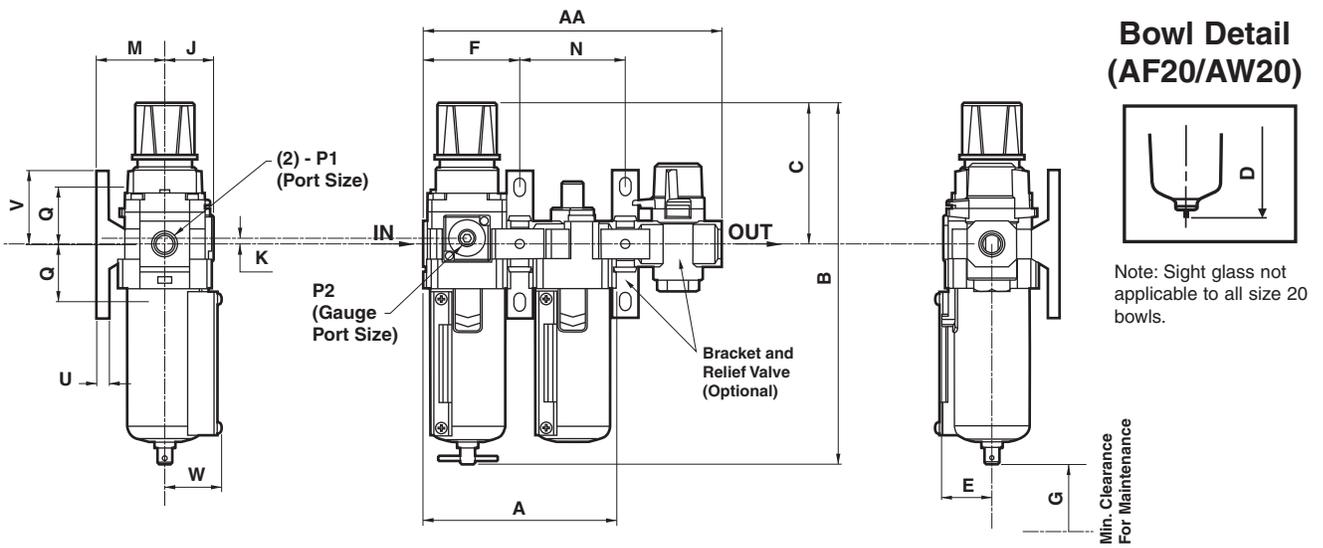
| AC-B | A* | AA** | B | C | E | F | G | J | K | M | N | Q | U | V | W |
|-------|-----|------|-----|----|----|------|----|------|-----|----|----|----|---|----|------|
| AC21B | 90 | 140 | 160 | 73 | — | 45.5 | 40 | 26 | 5 | 30 | 51 | 24 | 5 | 33 | — |
| AC31B | 117 | 181 | 220 | 86 | 30 | 58.5 | 55 | 29.5 | 3.5 | 41 | 64 | 35 | 7 | 45 | 34.5 |
| AC41B | 154 | 238 | 239 | 92 | 38 | 75.5 | 80 | 37.5 | 1.5 | 50 | 81 | 40 | 7 | 50 | 41 |

* Without relief valve option ** With relief valve option

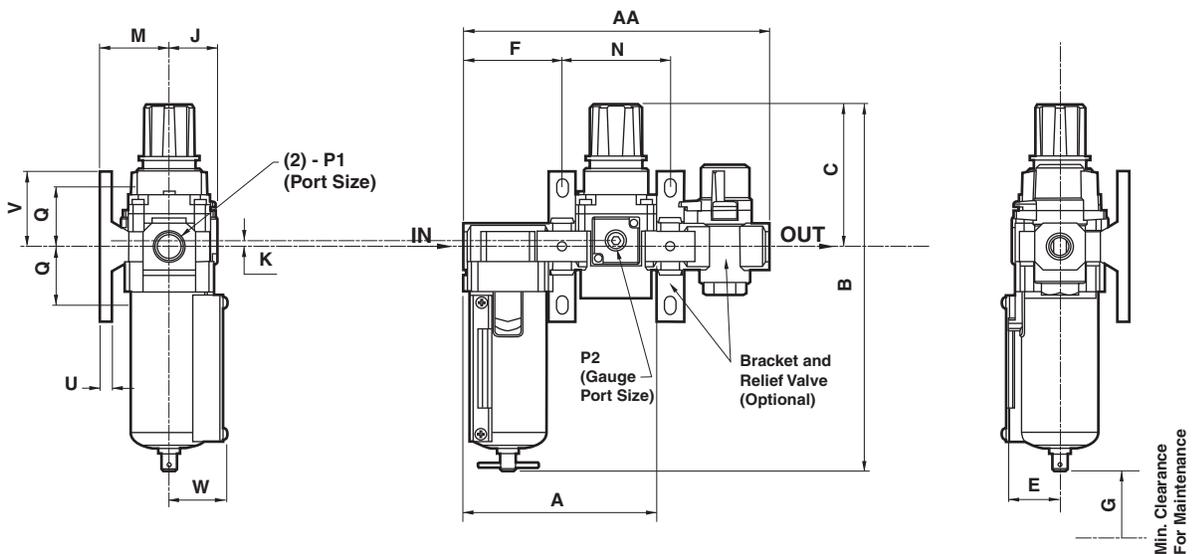
AC



AC-A



AC-B



Notes: Filter & Filter Regulator Bowls depict manual drain, see individual sections for details with auto-drain options.

How To Order

AF 30 - N 03 D - 8 Z - X480

Filter ●

Body Size ●

| Symbol | Size |
|--------|------|
| 20 | 1/8 |
| 30 | 3/8 |
| 40 | 1/2 |

NPT Threads ●

Port Size ●

| Symbol | Port Size | Applicable Body Size |
|--------|-----------|----------------------|
| 02 | 1/4 | 20 |
| 03 | 3/8 | 30 |
| 04 | 1/2 | 40 |

● With External Epoxy Coating, Stainless Fasteners

● Name Plate, Caution Plate On Bowl in psi, °F

● Bowl

| Symbol | Description | Applicable Body Size |
|--------|-----------------------------|----------------------|
| 2 | Metal Bowl | 20 |
| 8 | Metal Bowl With Sight Glass | 30, 40 |

● Accessories

| Symbol | Description | Applicable Body Size |
|--------|-------------------------|----------------------|
| Nil | None | All |
| B* | Mounting Bracket | All |
| C | Float Auto Drain (N.C.) | 30, 40 |
| D | Float Auto Drain (N.O.) | 30, 40 |

Note: Other sizes, thread forms, options, etc. may be possible, please contact SMC for availability.

*Note: Bracket is not assembled and is supplied loose at time of shipment.

Specifications



| Body size | 20 | 30 | 40 |
|------------------------------|---|------------------------|----------|
| Operating specifications | Same as standard - see catalog ES40-42D or NC160A | | |
| Port size | 1/4" NPT | 3/8" NPT | 1/2" NPT |
| Auto drain port | N/A | 1/4" NPT | |
| Bowl type | Metal | Metal with sight gauge | |
| Body material | Die cast aluminum | | |
| Bowl material | Die cast aluminum | | |
| Body, Bowl surface treatment | Epoxy resin coating | | |
| Manual drain (AF, AW) | POM | | |
| External screws | Stainless steel 410 | | |
| Individual mounting brackets | Epoxy coated steel | | |
| Sight glass hardware | Stainless steel 304 | | |

Dimensions - Refer to drawings on page 5

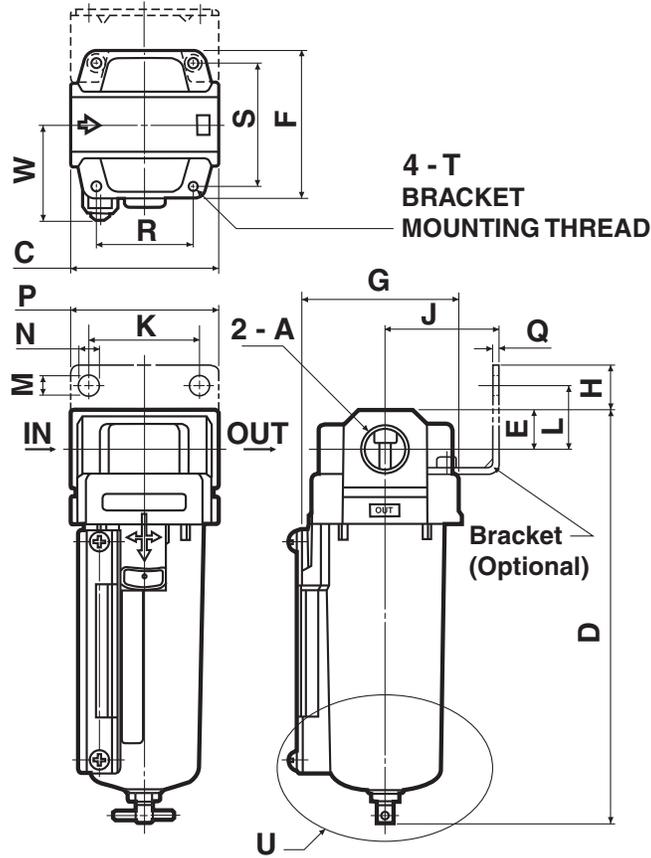
Standard

| Model | Port Size | Dimensions | | | | | | | | | | | | | | | | Mounting Bracket Kit (Optional) | |
|-------|-----------|------------|-----|----|----|----|----|----|----|----|-----|------|----|-----|----|----|----------|---------------------------------|------------------|
| | | A | C | D | E | F | G | H | J | K | L | M | N | P | Q | R | S | | T |
| AF20 | NPT 1/4 | 40 | 97 | 10 | 40 | — | 18 | 30 | 27 | 22 | 5.4 | 8.4 | 40 | 2.3 | 26 | 32 | M4 X 0.7 | — | AF20P-050AS-X480 |
| AF30 | NPT 3/8 | 53 | 149 | 14 | 53 | 57 | 16 | 41 | 40 | 23 | 6.5 | 8 | 53 | 2.3 | 35 | 44 | M4 X 0.7 | 34.5 | AF30P-050AS-X480 |
| AF40 | NPT 1/2 | 70 | 185 | 18 | 70 | 73 | 17 | 50 | 54 | 26 | 8.5 | 10.5 | 70 | 2.3 | 47 | 60 | M5 X 0.8 | 41 | AF40P-050AS-X480 |

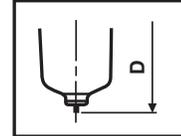
Auto Drain

| Model | Port Size | Dimensions | | | | | | | | | | | | | | | | Mounting Bracket Kit (Optional) | |
|-------|-----------|------------|-----|----|----|----|----|----|----|----|-----|------|----|-----|----|----|----------|---------------------------------|------------------|
| | | A | C | D | E | F | G | H | J | K | L | M | N | P | Q | R | S | | T |
| AF30 | NPT 3/8 | 53 | 158 | 14 | 53 | 57 | 16 | 41 | 40 | 23 | 6.5 | 8 | 53 | 2.3 | 35 | 44 | M4 X 0.7 | 34.5 | AF30P-050AS-X480 |
| AF40 | NPT 1/2 | 70 | 194 | 18 | 70 | 73 | 17 | 50 | 54 | 26 | 8.5 | 10.5 | 70 | 2.3 | 47 | 60 | M5 X 0.8 | 41 | AF40P-050AS-X480 |

Standard
(Manual Drain)

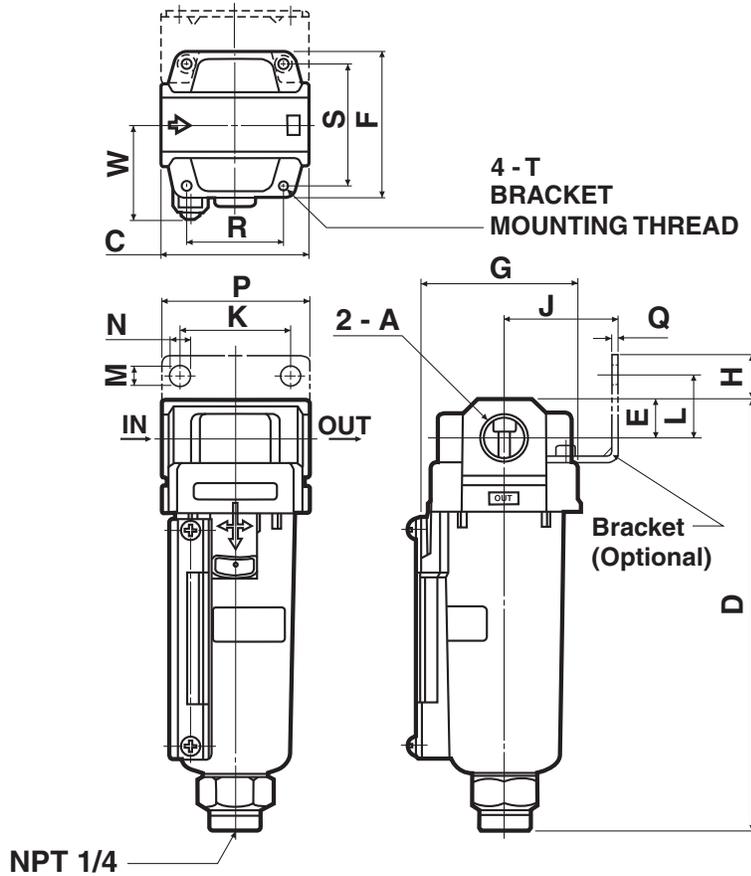


Bowl Detail U
(AF20)



Note: Sight glass not applicable to AF20.

With Auto Drain



How To Order

AW 30 - N 03 D - 8 Z - X48

Filter - Regulator •

Body Size •

| Symbol | Size |
|--------|------|
| 20 | 1/8 |
| 30 | 3/8 |
| 40 | 1/2 |

NPT Threads •

Port Size •

| Symbol | Port Size | Applicable Body Size |
|--------|-----------|----------------------|
| 02 | 1/4 | 20 |
| 03 | 3/8 | 30 |
| 04 | 1/2 | 40 |

• With External Epoxy Coating, Stainless Fasteners

• Name Plate, Caution Plate On Bowl in psi, °F

• Bowl

| Symbol | Description | Applicable Body Size |
|--------|-----------------------------|----------------------|
| 2 | Metal Bowl | 20 |
| 8 | Metal Bowl With Sight Glass | 30, 40 |

• Accessories

| Symbol | Description | Applicable Body Size |
|--------|-------------------------|----------------------|
| Nil | None | All |
| B* | Mounting Bracket | All |
| C | Float Auto Drain (N.C.) | 30, 40 |
| D | Float Auto Drain (N.O.) | 30, 40 |
| H* | Panel Mount Nut | All |

Note: Other sizes, thread forms, options, etc. may be possible, please contact SMC for availability.

*Note: Bracket and/or panel mount nut are not assembled and are supplied loose at time of shipment.



Specifications

| Body size | 20 | 30 | 40 |
|------------------------------|---|------------------------|----------|
| Operating specifications | Same as standard - see catalog ES40-42D or NC160A | | |
| Port size | 1/4" NPT | 3/8" NPT | 1/2" NPT |
| Auto drain port | N/A | 1/4" NPT | |
| Bowl type | Metal | Metal with sight gauge | |
| Body material | Die cast aluminum | | |
| Bowl material | Die cast aluminum | | |
| Body, Bowl surface treatment | Epoxy resin coating | | |
| Bonnet | Polyacetal | | |
| Manual drain (AF, AW) | POM | | |
| External screws | Stainless steel 410 | | |
| Individual mounting brackets | Epoxy coated steel | | |
| Panel mount nut | POM | | |
| Sight glass hardware | Stainless steel 304 | | |

Accessories

| Model | Mounting Bracket Kit (Optional) | Panel Mounting Nut (Optional) |
|-------|---------------------------------|-------------------------------|
| AW20 | AW20P-270AS-X480 | AR20P-260S |
| AW30 | AR30P-270AS-X480 | AR30P-260S |
| AW40 | AR40P-270AS-X480 | AR40P-260S |

Dimensions - Refer to drawings on page 7

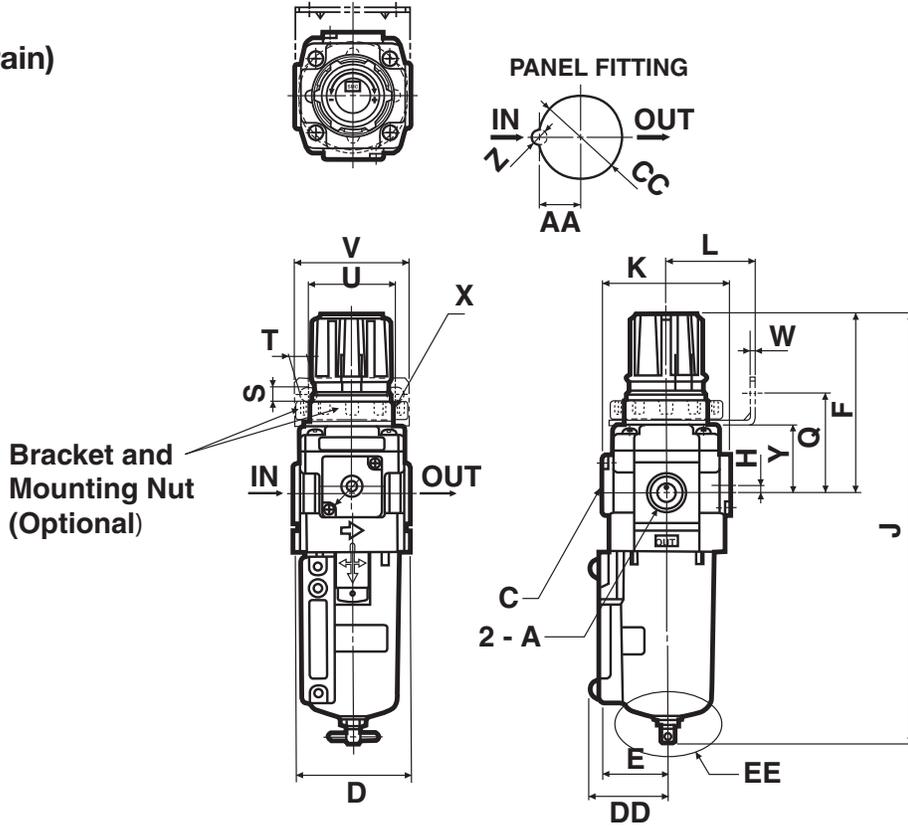
Standard

| Model | Port Size | Gauge Port | Dimensions | | | | | | | | | | | | | | | | | | |
|-------|-----------|------------|------------|------|----|------------|-----|--------------|----|----|----|-----|------|----|----|-----|-----------|------|---|----|------|
| | | | A | C | D | DD | E | F | H | J | K | L | Q | S | T | U | V | W | X | Y | Z |
| AW20 | NPT 1/4 | NPT 1/8 | 40 | — | — | 70(max.73) | 5 | 157(max.160) | 52 | 30 | 44 | 5.4 | 15.4 | 34 | 55 | 2.3 | M28 X 1 | 30 | 6 | 14 | 28.5 |
| AW30 | NPT 3/8 | NPT 1/8 | 53 | 34.5 | 30 | 83(max.86) | 3.5 | 218(max.221) | 59 | 41 | 46 | 6.5 | 8 | 40 | 53 | 2.3 | M38 X 1.5 | 31 | 7 | 19 | 38.5 |
| AW40 | NPT 1/2 | NPT 1/4 | 70 | 41 | 38 | 88(max.92) | 1.5 | 255(max.259) | 75 | 50 | 54 | 8.5 | 10.5 | 54 | 70 | 2.3 | M42 X 1.5 | 35.5 | 7 | 21 | 42.5 |

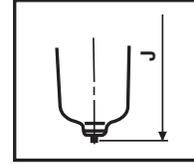
Auto Drain

| Model | Port Size | Gauge Port | Dimensions | | | | | | | | | | | | | | | | | | |
|-------|-----------|------------|------------|------|----|------------|-----|--------------|----|----|----|-----|------|----|----|-----|-----------|------|---|----|------|
| | | | A | C | D | DD | E | F | H | J | K | L | Q | S | T | U | V | W | X | Y | Z |
| AW30 | NPT 3/8 | NPT 1/8 | 53 | 34.5 | 30 | 83(max.86) | 3.5 | 239(max.242) | 59 | 41 | 46 | 6.5 | 8 | 40 | 53 | 2.3 | M38 X 1.5 | 31 | 7 | 19 | 38.5 |
| AW40 | NPT 1/2 | NPT 1/4 | 70 | 41 | 38 | 88(max.92) | 1.5 | 276(max.280) | 75 | 50 | 54 | 8.5 | 10.5 | 54 | 70 | 2.3 | M42 X 1.5 | 35.5 | 7 | 21 | 42.5 |

Standard
(Manual Drain)

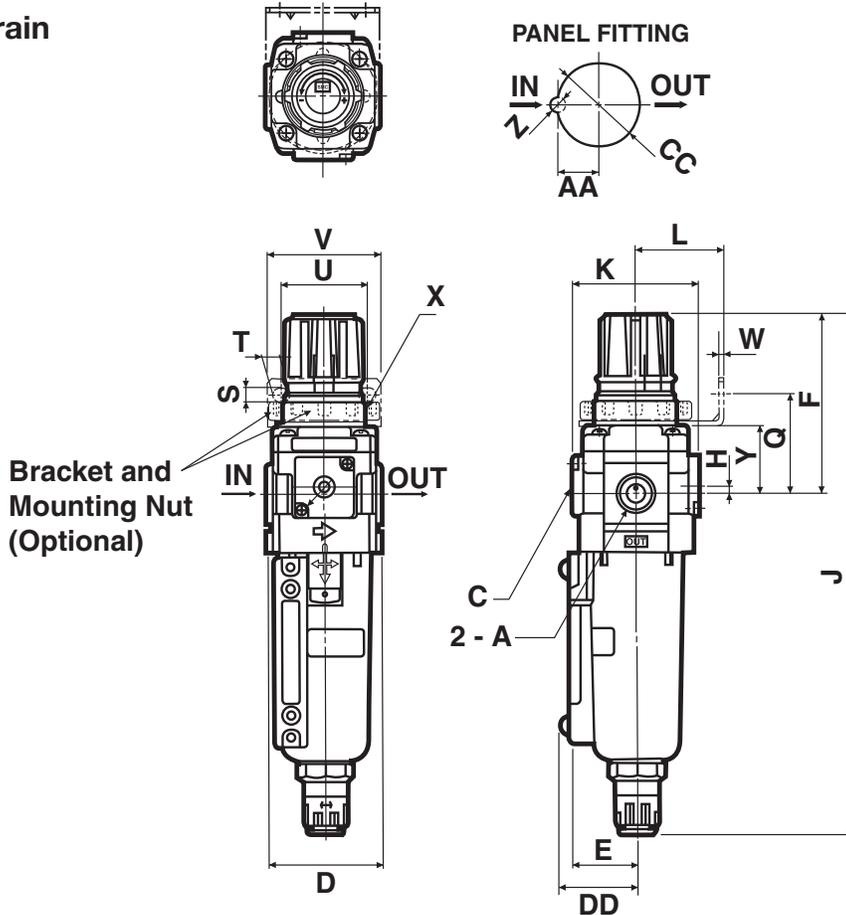


Bowl Detail EE
(AW20)



Note: Sight glass not applicable to AW20.

With Auto Drain



How To Order

AR 20 - N 02 B - Y Z - X48

Regulator ●

Body Size ●

| Symbol | Size |
|--------|------|
| 20 | 1/8 |
| 30 | 3/8 |
| 40 | 1/2 |

NPT Threads ●

Port Size ●

| Symbol | Port Size | Applicable Body Size |
|--------|-----------|----------------------|
| 02 | 1/4 | 20 |
| 03 | 3/8 | 30 |
| 04 | 1/2 | 40 |

● With External Epoxy Coating, Stainless Fasteners

● Name Plate, Caution Plate On Bowl in psi, °F

● Handle Orientation

| Symbol | Description |
|--------|-------------|
| Nil | Handle Down |
| Y | Handle Up |

Note: Other sizes, thread forms, options, etc. may be possible, please contact SMC for availability.

● Accessories

| Symbol | Description |
|--------|------------------|
| Nil | None |
| B* | Mounting Bracket |
| H* | Panel Mount Nut |

*Note: Bracket and/or panel mount nut are not assembled and are supplied loose at time of shipment.



Specifications

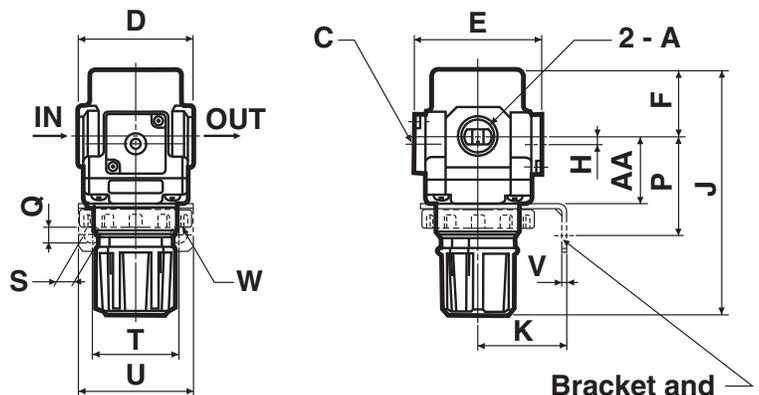
| Body size | 20 | 30 | 40 |
|------------------------------|---|----------|----------|
| Operating specifications | Same as standard - see catalog ES40-42D or NC160A | | |
| Port size | 1/4" NPT | 3/8" NPT | 1/2" NPT |
| Body material | Die cast aluminum | | |
| Body, Bowl surface treatment | Epoxy resin coating | | |
| Bonnet | Polyacetal | | |
| Individual mounting brackets | Epoxy coated steel | | |
| Panel mount nut | POM | | |

Dimensions

| Model | Port Size | Gauge Port | Dimensions | | | | | | | | | | | | | | | | | | |
|-------|-----------|------------|------------|----|------|-----|--------------|----|----|------|----|-----|------|----|----|-----|-----------|---|----|------|------|
| | | | A | C | D | E | F | H | J | K | L | M | P | Q | S | T | U | V | W | X | Y |
| AR20 | NPT 1/4 | NPT 1/8 | 40 | 57 | 26.5 | -2 | 91(max.94) | 30 | 65 | 37.5 | 44 | 5.4 | 15.4 | 34 | 55 | 2.3 | M28 X 1 | 6 | 14 | 28.5 | 25 |
| AR30 | NPT 3/8 | NPT 1/8 | 53 | 59 | 31 | 3.5 | 113(max.116) | 41 | 66 | 37.5 | 46 | 6.5 | 8 | 40 | 53 | 2.3 | M38 X 1.5 | 7 | 19 | 38.5 | 31 |
| AR40 | NPT 1/2 | NPT 1/4 | 70 | 68 | 36 | 3.5 | 124(max.128) | 50 | 74 | 42.5 | 54 | 8.5 | 10.5 | 54 | 70 | 2.3 | M42 X 1.5 | 7 | 21 | 42.5 | 35.5 |

Accessories

| Model | Mounting Bracket Kit (Optional) | Panel Mounting Nut (Optional) |
|-------|---------------------------------|-------------------------------|
| AR20 | AR20P-270AS-X48 | AR20P-260S |
| AR30 | AR30P-270AS-X48 | AR30P-260S |
| AR40 | AR40P-270AS-X48 | AR40P-260S |



Bracket and Mounting Nut (Optional)

PANEL FITTING

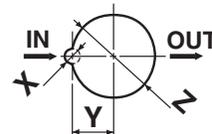


Plate Thickness
AR20, 30: Max 3.5
AR40: Max 5

How To Order

AL 20 - N 02 B - 2 Z - X480

Lubricator ●
 Body Size ●
 NPT Threads ●
 Port Size ●
 Bowl ●
 Accessories ●
 With External Epoxy Coating, Stainless Fasteners ●
 Name Plate, Caution Plate On Bowl in psi, °F ●

| Symbol | Size |
|--------|------|
| 20 | 1/8 |
| 30 | 3/8 |
| 40 | 1/2 |

| Symbol | Port Size | Applicable Body Size |
|--------|-----------|----------------------|
| 02 | 1/4 | 20 |
| 03 | 3/8 | 30 |
| 04 | 1/2 | 40 |

| Symbol | Description | Applicable Body Size |
|--------|-----------------------------|----------------------|
| 2 | Metal Bowl | 20 |
| 8 | Metal Bowl With Sight Glass | 30, 40 |

| Symbol | Description | Applicable Body Size |
|--------|------------------|----------------------|
| Nil | None | All |
| B* | Mounting Bracket | All |

*Note: Bracket is not assembled and is supplied loose at time of shipment.

Note: Other sizes, thread forms, options, etc. may be possible, please contact SMC for availability.



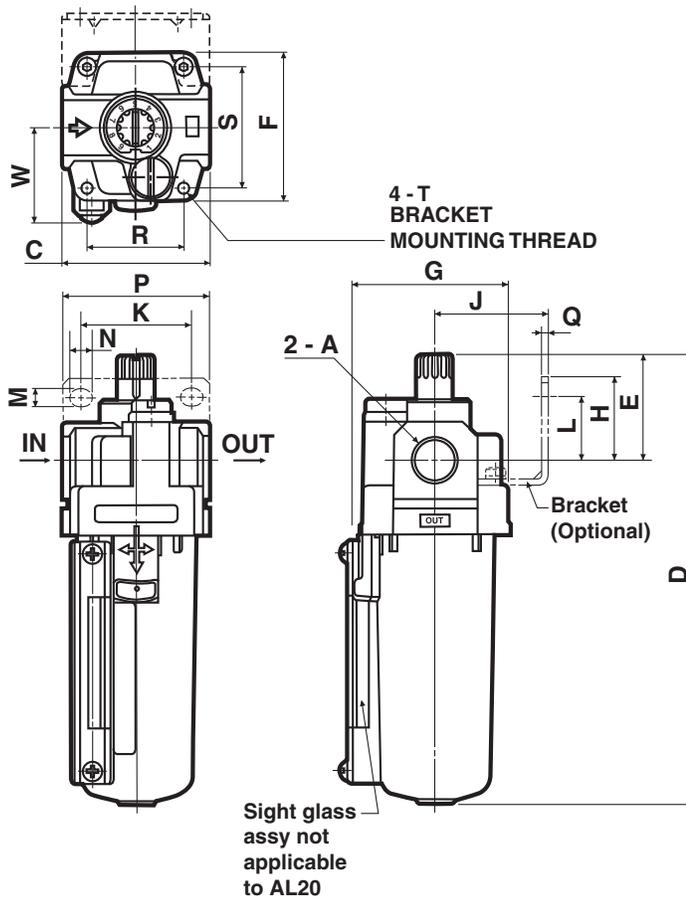
Specifications

| Body size | 20 | 30 | 40 |
|------------------------------|---|------------------------|----------|
| Operating specifications | Same as standard - see catalog ES40-42D or NC160A | | |
| Port size | 1/4" NPT | 3/8" NPT | 1/2" NPT |
| Bowl type | Metal | Metal with sight gauge | |
| Body material | Die cast zinc | Die cast aluminum | |
| Bowl material | Die cast aluminum | | |
| Body, Bowl surface treatment | Epoxy resin coating | | |
| Individual mounting brackets | Epoxy coated steel | | |
| Fill plug | Stainless steel 304 | | |
| Sight dome | Polycarbonate | | |
| Sight glass hardware | Stainless steel 304 | | |

Dimensions

mm

| Model | Port Size | Dimensions | | | | | | | | | | | | | | | | Mounting Bracket Kit (Optional) | |
|-------|-----------|------------|-----|----|----|----|----|----|----|----|-----|------|----|-----|----|----|----------|---------------------------------|------------------|
| | | A | C | D | E | F | G | H | J | K | L | M | N | P | Q | R | S | | T |
| AL20 | NPT 1/4 | 40 | 121 | 36 | 40 | — | 28 | 30 | 27 | 22 | 5.4 | 8.4 | 40 | 2.3 | 26 | 32 | M4 X 0.7 | — | AF20P-050AS-X480 |
| AL30 | NPT 3/8 | 53 | 162 | 38 | 53 | 57 | 30 | 41 | 40 | 23 | 6.5 | 8 | 53 | 2.3 | 35 | 44 | M4 X 0.7 | 34.5 | AF30P-050AS-X480 |
| AL40 | NPT 1/2 | 70 | 196 | 40 | 70 | 73 | 35 | 50 | 54 | 26 | 8.5 | 10.5 | 70 | 2.3 | 47 | 60 | M5 X 0.8 | 41 | AF40P-050AS-X480 |

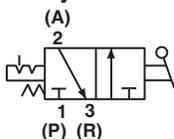


Residual Pressure Relief 3 Port Valve (V)

With the use of a 3 port valve for residual pressure release, pressure left in the line can be easily exhausted.



JIS Symbol



| Model | Port Size | | | Effective area mm ² (Cv) | |
|-------|-----------|-----|-----------|-------------------------------------|--|
| | IN, OUT | EXH | IN to OUT | OUT to EXH | |
| VHS20 | 1/4 | 1/8 | 14 (0.76) | 16 (0.87) | |
| VHS30 | 3/8 | 1/4 | 31 (1.68) | 29 (1.57) | |
| VHS40 | 1/2 | 3/8 | 55 (2.98) | 42 (2.28) | |

Paint color (Standard) Handle: Red Body: Platinum silver
Use an air filter on the IN side for operating protection.

How To Order

VHS 30 - N 02 - Z - X513

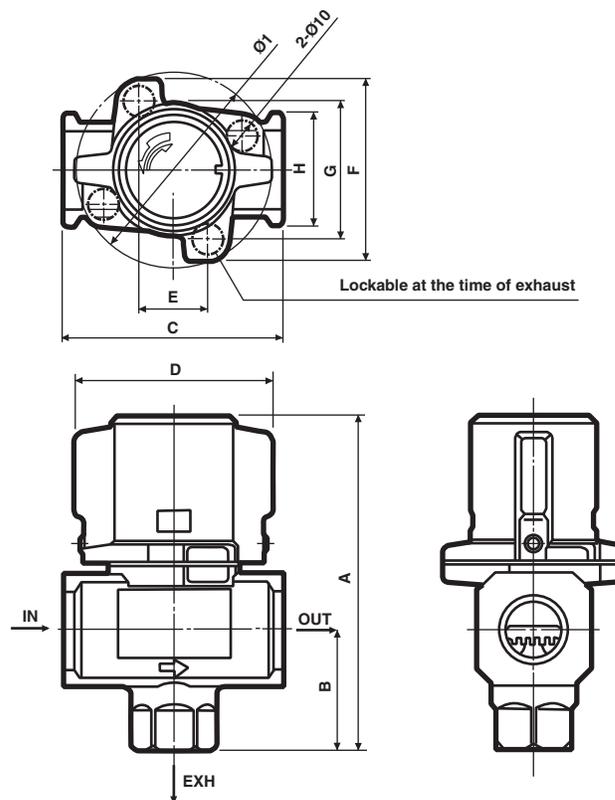
- Residual Pressure Relief 3 Port Valve**
- Body Size**

| Symbol | Applicable Model |
|--------|------------------|
| 20 | AC21 |
| 30 | AC31 |
| 40 | AC41 |
- Thread Type**

| | |
|---|-----|
| N | NPT |
|---|-----|
- Body Size**

| Symbol | Port Size | Body Size | | |
|--------|-----------|-----------|----|----|
| | | 20 | 30 | 40 |
| 02 | 1/4 | ● | | |
| 03 | 3/8 | | ● | |
| 04 | 1/2 | | | ● |
- With External Epoxy Coating, Stainless Fasteners**
- Name Plate In Imperial Units (PSI, °F)**

Note: Other sizes, thread forms, options, etc. may be possible, please contact SMC for availability.



Dimensions

| Model | A | B | C | D | E | F | G | H | I |
|-------|-----|----|----|----|----|----|----|----|----|
| VHS20 | 59 | 20 | 40 | 34 | — | 45 | 33 | 28 | 45 |
| VHS30 | 78 | 29 | 53 | 46 | — | 55 | 42 | 30 | 55 |
| VHS40 | 107 | 39 | 70 | 63 | 22 | 58 | 44 | 36 | 63 |

Caution

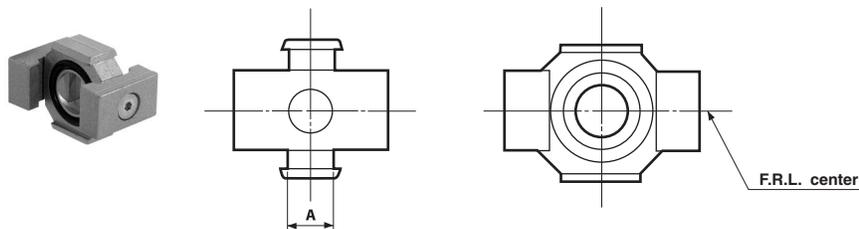
- If a stop valve or a silencer is connected to the exhaust port of VHS20/30, the effective sectional area should be larger than the figure indicated in the following table, to prevent malfunction caused by back pressure. (This is not applicable to VHS40)

| Model | Effective area (mm ²) |
|-------|-----------------------------------|
| VHS20 | 5 |
| VHS30 | 5 |

- If unit is to be used in a washdown application, avoid directing fluid into the exhaust port.

Spacer

Epoxy Coated Aluminum,
Stainless Screws,
NBR Seals

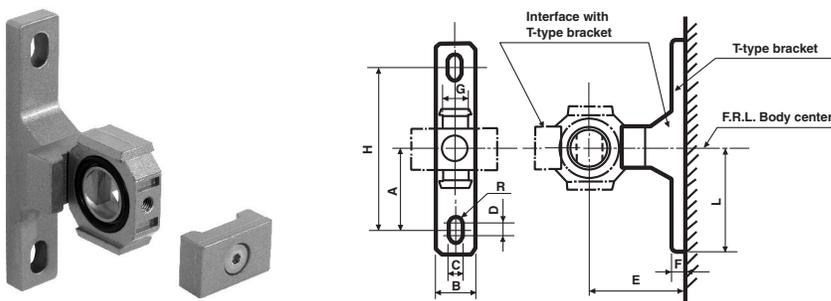


Dimensions

| mm | |
|--------|----|
| Model | A |
| Y20-T4 | 10 |
| Y30-T4 | 11 |
| Y40-T4 | 14 |

Interface With T Bracket

Epoxy Coated Aluminum, Stainless Screws,
NBR Seals



Dimensions

| mm | | | | | | | | | | | |
|--------------------------|----|----|-----|---|----|---|----|----|------|----|-------------------|
| Interface With T Bracket | A | B | C | D | E | F | G | H | R | L | Applicable Models |
| Y20T-T4 | 24 | 15 | 5.5 | 3 | 30 | 5 | 10 | 48 | 2.75 | 33 | AC21*-X2217 |
| Y30T-T4 | 35 | 16 | 7 | 4 | 41 | 7 | 11 | 70 | 3.5 | 45 | AC31*-X2217 |
| Y40T-T4 | 40 | 22 | 9 | 4 | 50 | 7 | 14 | 80 | 4.5 | 50 | AC41*-X2217 |

Other Available Air Line Products with Epoxy Coating/Stainless Hardware

| Series | Description | Option Code |
|---------|---|-------------|
| (N)AV | Soft Start Valve | X480 |
| AMG | Water Removal Filter | X229 |
| AR20-60 | Regulator with Stainless T-handle, aluminum bonnet for UV resistance | X480 |
| AVL | Soft Start Valve with Pilot Lock-Out | X480 |
| AW20-40 | Filter-Regulator with Stainless T-handle, aluminum bonnet for UV resistance | X480 |
| E*00 | Piping Adapter | X480 |
| Y*10 | T Interface | X480 |
| Y*4 | Cross Interface | T3 |

Please contact SMC for ordering information

Salt Spray Test Results (for reference)

1. Test Conditions

- 1) **Method:** In compliance with ASTM B117-07a (JIS Z 2371), leave parts in a salt spray test chamber, and compare rust generation.
- 2) **Conditions:** Temperature: 95°F (35°C) Salt Water Concentration: 5%
- 3) **Time:** 1000 hours [Frequency: 0hr, 24hrs, 48hrs, 72hrs, 96hrs, 168hrs, 240hrs, 480hrs, 720hrs, 1000hrs]
- 4) **Samples:** Parts for AF and AW30 (See Figure 1.)
 - Part descriptions: 4 parts (1) Body (2) Drain cock (3) Small screw for level gauge (4) Bonnet screw
 - Types: 2 Types A) Standard B) Special X480 (Coated with epoxy resin [External metal parts are made of SUS])
 - Refer to Table 1 for part materials and treatments. *Quantity; 2 pieces for each

2. Test Results Table 1 Salt spray resistance test results

| No. | Description | Type | | Material & Treatment | Results |
|-----|---|------|--------------|--|--|
| 1 | Body | A | Standard | Material: Die Cast Aluminum Treatment: Platinum Coating | Rusted in 480hrs Part of coating swelled |
| | | B | Special X480 | Material: Die Cast Aluminum Treatment: Platinum & Epoxy Coating | Not rusted in 1000hrs Part of coating swelled |
| 2 | Drain cock | A | Standard | Material: Die Cast Aluminum Treatment: Zinc Chromate | Rusted in 24hrs |
| | | B | Special X480 | Material: SUS | Not rusted in 1000hrs |
| 3 | Cross recessed round head screw for metal bowl with level gauge | A | Standard | Material: Steel Treatment: Nickel Plating | Rusted in 24hrs |
| | | B | Special X480 | Material: SUS | Not rusted in 1000hrs |
| 4 | Self-tapping screw for AR and AW bonnet | A | Standard | Material: Steel Treatment: Zinc Chromate | Rusted in 24hrs |
| | | B | Special X480 | Material: SUS | Not rusted in 1000hrs |

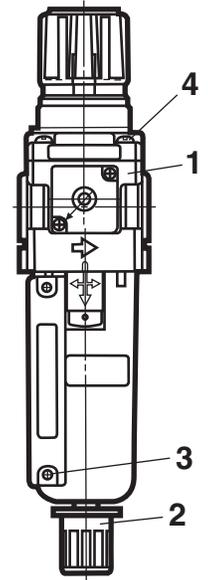
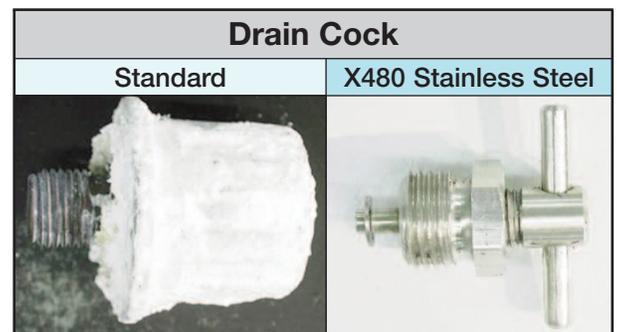
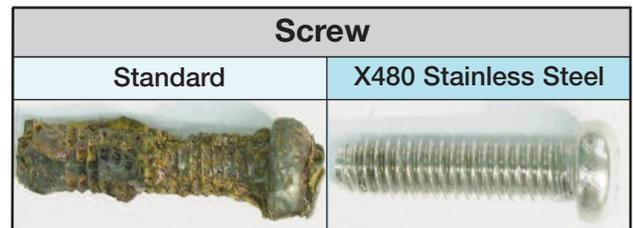
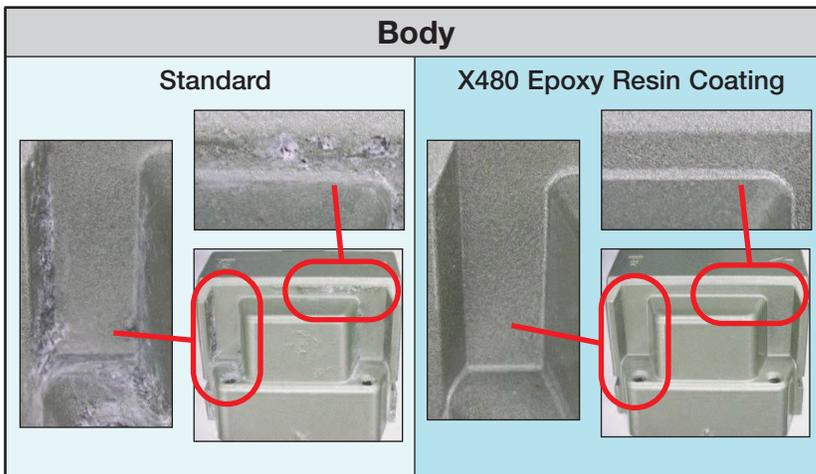


Figure 1



Caution! To ensure the safest possible operation of this product, please be sure to read thoroughly the "Safety Instructions" in our "Best Pneumatics" catalog before use.