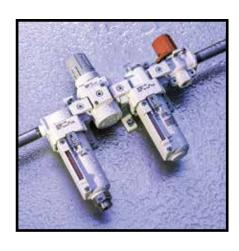
SP093-001J Issued: JULY 2019



#### **SMC** Corporation of America

10100 SMC Boulevard Noblesville,IN 46060 www.smcusa.com

# P.G. Information Epoxy Coated F.R.L. Units



| <b>AC</b> 21/31/41-N □ □ - □ Z-B-X221 / □ |
|---|
| <b>AF</b> 20/30/40-N□□-□Z-A-X480          |
| <b>AR</b> 20/30/40-N□□-□Z-B-X48           |
| <b>AL</b> 20/30/40-N□□-□Z-A-X480          |
| <b>AW</b> 20/30/40-N □ □ - □ Z-B-X48      |
| <b>VHS</b> 20/30/40-N□B-Z-X513            |
| <b>Y</b> 20/30/40□-A-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:**

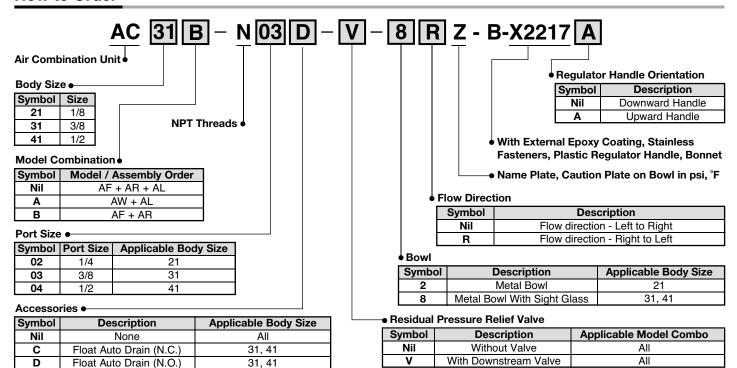
- 1) Functional performance is equivalent to standard product.
- 2) Product withstood salt spray testing per ASTM B117-07A with excellent results (See test results on page 12). Improved performance vs. other chemicals is anticipated but has not been verified.

#### **Applications:**

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

#### **Related Products:**

- KQG2 Series 316 SUS One-touch Fittings
- KQB2 Series Ni plated brass One-touch Fittings
- · 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



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



#### **Specifications**

|                                   | 04  | 24                 | 44                   |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|---|--------------------|----------------------|--|--|--|--|--|--|--|--|--|--|
| Body size                         |   |                    |                      |  |  |  |  |  |  |  |  |  |  |
| Operating specifications          | Polyacetal POM Stainless steel 410 Epoxy coated steel POM |                    |                      |  |  |  |  |  |  |  |  |  |  |
| Port size                         | 1/4" NPT  | 3/8" NPT           | 1/2" NPT             |  |  |  |  |  |  |  |  |  |  |
| Auto drain port (AF, AW)          | N/A   | AF: 1/4" NPT; A    | W: 3/8" tube fitting |  |  |  |  |  |  |  |  |  |  |
| Bowl type (AF, AL, AW)            | Metal   | Metal with         | sight gauge          |  |  |  |  |  |  |  |  |  |  |
| Body material                     |   | Die cast aluminun  | n                    |  |  |  |  |  |  |  |  |  |  |
| Bowl material (AF, AL, AW)        |   | Die cast aluminun  | n                    |  |  |  |  |  |  |  |  |  |  |
| Body, Bowl surface treatment      | Į.  | Epoxy resin coatin | ng                   |  |  |  |  |  |  |  |  |  |  |
| Bonnet (AR, AW)                   | ,   |                    |                      |  |  |  |  |  |  |  |  |  |  |
| Manual drain (AF, AW)             |   | POM                |                      |  |  |  |  |  |  |  |  |  |  |
| External screws                   |   | Stainless steel 41 | 0                    |  |  |  |  |  |  |  |  |  |  |
| Individual mounting brackets      |   | Epoxy coated stee  | el                   |  |  |  |  |  |  |  |  |  |  |
| Panel mount nut (AR, AW)          |   | POM                |                      |  |  |  |  |  |  |  |  |  |  |
| Connector brackets (AC)           | Die cast zinc (epoxy coated)                              |                    |                      |  |  |  |  |  |  |  |  |  |  |
| Fill plug (AL)                    |   | Stainless steel 30 | 4                    |  |  |  |  |  |  |  |  |  |  |
| Sight dome (AL)                   |   | Polycarbonate      |                      |  |  |  |  |  |  |  |  |  |  |
| Sight glass hardware (AF, AL, AW) |   | Stainless steel 30 | 4                    |  |  |  |  |  |  |  |  |  |  |

#### **Dimensions - Refer to drawings on page 3**

| Dillicits | 10113 - 1 | icici io i | ar awings | on page | , 0  |    |      |    |    |    | 111111 |    |      |  |  |
|-----------|-----------|------------|-----------|---------|------|----|------|----|----|----|--------|----|------|--|--|
| AC        | Α*        | AA**       | В         | С       | F    | G  | J    | M  | N  | Q  | U      | V  | W    |  |  |
| AC21      | 140       | 190        | 155       | 73      | 45.5 | 40 | 26   | 30 | 51 | 24 | 5      | 33 | _    |  |  |
| AC31      | 181       | 245        | 230       | 86      | 58.5 | 55 | 29.4 | 41 | 64 | 35 | 7      | 45 | 34.5 |  |  |
| AC41      | 238       | 322        | 241       | 92      | 75.5 | 80 | 37.3 | 50 | 81 | 40 | 7      | 50 | 41   |  |  |

<sup>\*</sup> Without relief valve option \*\* With relief valve option

mm

| AC□A  | A*  | AA** | В   | С  | F    | G  | J    | М  | N  | Q  | U | V  | W    |
|-------|-----|------|-----|----|------|----|------|----|----|----|---|----|------|
| AC21A | 90  | 140  | 155 | 73 | 45.5 | 40 | 26   | 30 | 51 | 24 | 5 | 33 | _    |
| AC31A | 117 | 181  | 230 | 86 | 58.5 | 55 | 29.4 | 41 | 64 | 35 | 7 | 45 | 34.5 |
| AC41A | 154 | 238  | 241 | 92 | 75.5 | 80 | 37.3 | 50 | 81 | 40 | 7 | 50 | 41   |

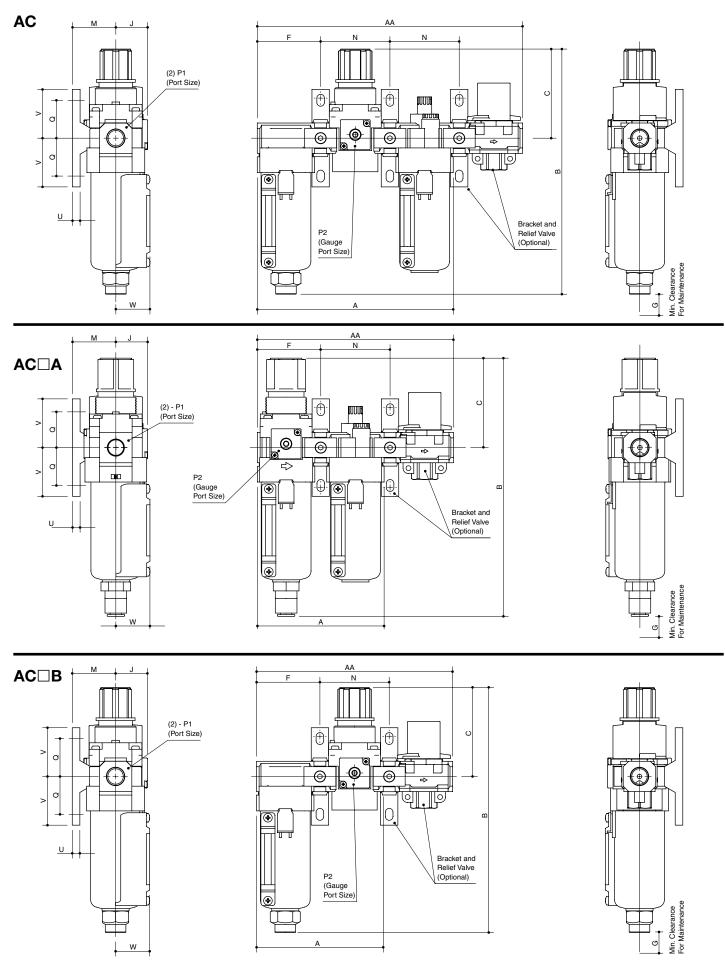
<sup>\*</sup> Without relief valve option \*\* With relief valve option

mm

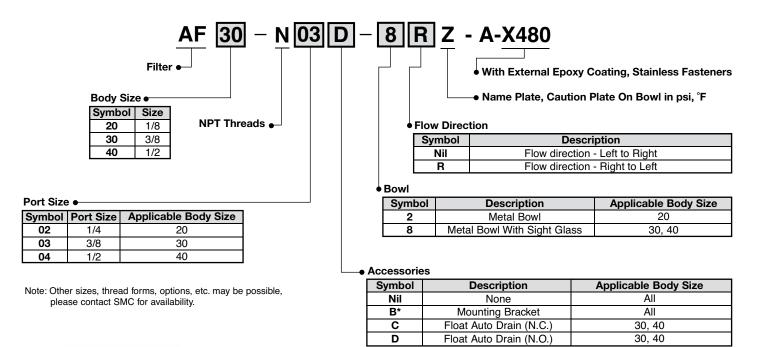
| AC□B  | <b>A</b> * | AA** | В   | С  | F    | G  | J    | М  | N  | Q  | U | V  | W    |
|-------|------------|------|-----|----|------|----|------|----|----|----|---|----|------|
| AC21B | 90         | 140  | 155 | 73 | 45.5 | 40 | 26   | 30 | 51 | 24 | 5 | 33 | _    |
| AC31B | 117        | 181  | 230 | 86 | 58.5 | 55 | 29.4 | 41 | 64 | 35 | 7 | 45 | 34.5 |
| AC41B | 154        | 238  | 241 | 92 | 75.5 | 80 | 37.3 | 50 | 81 | 40 | 7 | 50 | 41   |

<sup>\*</sup> Without relief valve option \*\* With relief valve option

Series AC21~41 F.R.L. Unit



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



\*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 NAS40-60B  1/4" NPT 3/8" NPT 1/2" NPT  N/A 1/4" NPT  Metal Metal with sight gauge  Die cast aluminum  Die cast aluminum  Energy seein gesting |                     |             |  |  |  |  |  |  |  |  |  |  |  |
| 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                |  |                     |             |  |  |  |  |  |  |  |  |  |  |  |
| 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**

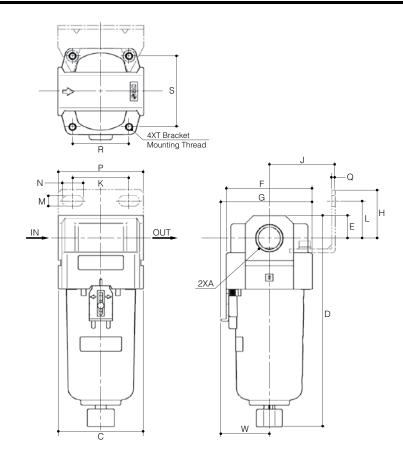
**Standard** mm

| Madal | Port Size | C D E F G H J K L M N P Q R S T W |       |     |      |    |    |    |    |    |     |      |    |     |    | Mounting Bracket Kit |          |      |                  |
|-------|-----------|-----------------------------------|-------|-----|------|----|----|----|----|----|-----|------|----|-----|----|----------------------|----------|------|------------------|
| Model | Α         | С                                 | D     | Е   | F    | G  | Н  | J  | K  | L  | М   | N    | Р  | Q   | R  | S                    | Т        | W    | (Optional)       |
| AF20  | NPT 1/4   | 40                                | 97.2  | 9.8 | 40   | -  | 28 | 30 | 27 | 22 | 5.4 | 8.4  | 40 | 2.3 | 26 | 32                   | M4 X 0.7 | _    | AF22P-050AS-X480 |
| AF30  | NPT 3/8   | 53                                | 151.6 | 14  | 53.4 | 57 | 30 | 41 | 35 | 23 | 6.5 | 13   | 53 | 2.3 | 35 | 44                   | M4 X 0.7 | 30   | AF32P-050AS-X480 |
| AF40  | NPT 1/2   | 70                                | 187.6 | 18  | 71   | 73 | 35 | 50 | 52 | 26 | 8.5 | 12.5 | 70 | 2.3 | 47 | 60                   | M5 X 0.8 | 38.4 | AF42P-050AS-X480 |

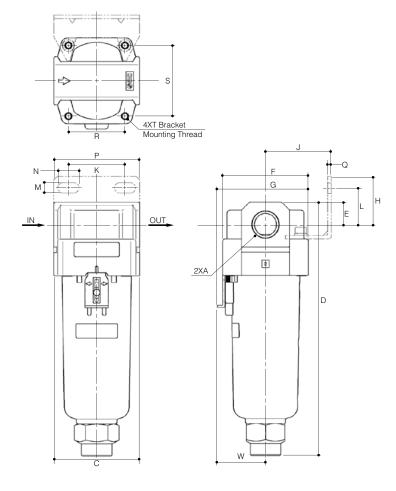
Auto Drain mm

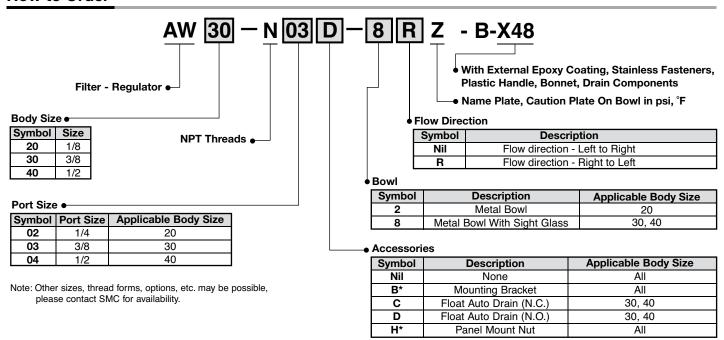
| Madal | Port Size |    |     |    |    |    |    |    |    | Dime | nsior | IS   |    |     |    |    |          |      | Mounting Bracket Kit |
|-------|-----------|----|-----|----|----|----|----|----|----|------|-------|------|----|-----|----|----|----------|------|----------------------|
| Model | Α         | С  | D   | Е  | F  | G  | Н  | J  | K  | L    | М     | N    | Р  | Q   | R  | S  | Т        | W    | (Optional)           |
| AF30  | NPT 3/8   | 53 | 158 | 14 | 53 | 57 | 30 | 41 | 35 | 23   | 6.5   | 13   | 53 | 2.3 | 35 | 44 | M4 X 0.7 | 30   | AF32P-050AS-X480     |
| AF40  | NPT 1/2   | 70 | 194 | 18 | 70 | 73 | 35 | 50 | 52 | 26   | 8.5   | 12.5 | 70 | 2.3 | 47 | 60 | M5 X 0.8 | 38.4 | AF42P-050AS-X480     |

### Standard (Manual Drain)



#### **With Auto Drain**





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



#### **Specifications**

| - Cp - Connocation is        |                     |                      |             |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---------------------|----------------------|-------------|--|--|--|--|--|--|--|--|--|--|
| Body size                    | 20                  | 30                   | 40          |  |  |  |  |  |  |  |  |  |  |
| Operating specifications     | Same as sta         | andard - see catalog | NAS40-60B   |  |  |  |  |  |  |  |  |  |  |
| Port size                    | 1/4" NPT            | 3/8" NPT             | 1/2" NPT    |  |  |  |  |  |  |  |  |  |  |
| Auto drain port              | N/A                 | 3/8" tub             | e fitting   |  |  |  |  |  |  |  |  |  |  |
| Bowl type                    | Metal               | Metal with s         | sight gauge |  |  |  |  |  |  |  |  |  |  |
| Body material                |                     | Die cast aluminum    |             |  |  |  |  |  |  |  |  |  |  |
| Bowl material                | Die cast aluminum   |                      |             |  |  |  |  |  |  |  |  |  |  |
| Body, Bowl surface treatment |                     |                      |             |  |  |  |  |  |  |  |  |  |  |
| 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<br>(Optional) | Panel Mounting Nut<br>(Optional) |
|-------|------------------------------------|----------------------------------|
| AW20  | AW23P-270AS-X48                    | AR23P-260S                       |
| AW30  | AR33P-270AS-X48                    | AR33P-260S                       |
| AW40  | AR43P-270AS-X48                    | AR43P-260S                       |
|       |                                    |                                  |

#### **Dimensions - Refer to drawings on page 7**

#### **Standard**

mm

| Madal | Port Size | <b>Gauge Port</b> |    |    |            |     | D            | ime | nsio | ns |     |      |    |    |     |           |      |   |    |      |
|-------|-----------|-------------------|----|----|------------|-----|--------------|-----|------|----|-----|------|----|----|-----|-----------|------|---|----|------|
| Model | Α         | С                 | D  | DD | F          | Н   | J            | K   | L    | Q  | S   | Т    | U  | ٧  | W   | Х         | Υ    | Z | AA | CC   |
| 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 | 30 | 83(max.86) | 3.5 | 220(max.224) | 59  | 41   | 46 | 6.5 | 8    | 40 | 53 | 2.3 | M38 X 1.5 | 31   | 7 | 19 | 38.5 |
| AW40  | NPT 1/2   | NPT 1/8           | 70 | 38 | 88(max.92) | 1.5 | 257(max.261) | 75  | 50   | 54 | 8.5 | 10.5 | 54 | 70 | 2.3 | M42 X 1.5 | 35.5 | 7 | 21 | 42.5 |

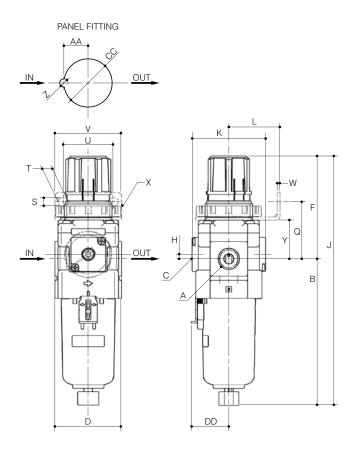
#### **Auto Drain**

mm

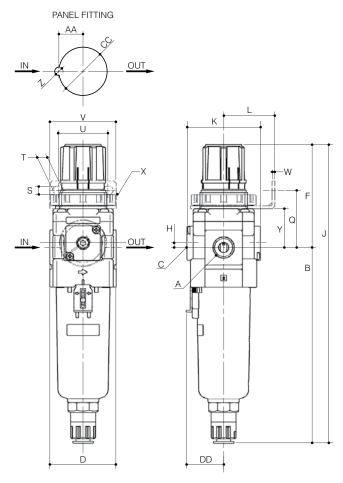
| Madal | Port Size | <b>Gauge Port</b> |    |    |            |     | D            | Dimensions |    |    |     |      |    |    |     |           |      |   |    |      |
|-------|-----------|-------------------|----|----|------------|-----|--------------|------------|----|----|-----|------|----|----|-----|-----------|------|---|----|------|
| Model | Α         | C                 | D  | DD | F          | Н   | J            | K          | ٦  | Q  | S   | T    | U  | ٧  | W   | Х         | Υ    | Z | AA | CC   |
| AW30  | NPT 3/8   | NPT 1/8           | 53 | 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 1/8           | 70 | 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 |

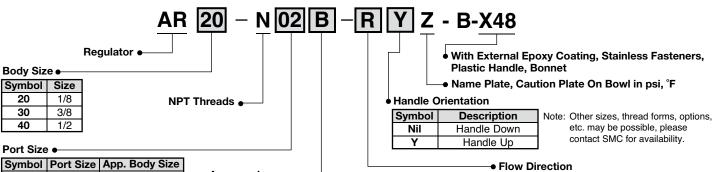
Series AW20~40

# Standard (Manual Drain)



### With Auto Drain





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

Accessories • Description Symbol None Nil В\* Mounting Bracket Н\* Panel Mount Nut

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

Symbol Description Nil Flow direction - Left to Right Flow direction - Right to Left R



#### **Specifications**

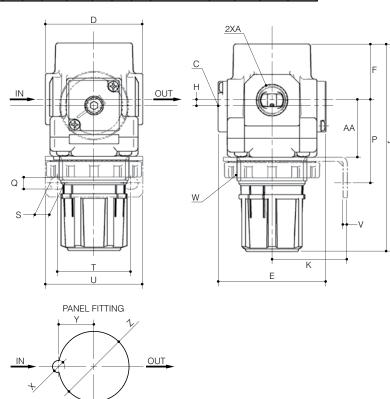
| Body size                    | 20                                       | 30                 | 40       |  |  |  |  |  |  |
|------------------------------|--|--------------------|----------|--|--|--|--|--|--|
| Operating specifications     | Same as standard - see catalog NAS40-60B |                    |          |  |  |  |  |  |  |
| 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**

| Dimens | Dimensions mm |                   |    |      |      |     |              |      |       |     |      |    |    |     |           |   |    |      |      |
|--------|---------------|-------------------|----|------|------|-----|--------------|------|-------|-----|------|----|----|-----|-----------|---|----|------|------|
| Madal  | Port Size     | <b>Gauge Port</b> |    |      |      |     |              | Dime | ensio | ns  |      |    |    |     |           |   |    |      |      |
| Model  | Α             | С                 | D  | Е    | F    | Н   | J            | K    | Р     | Q   | S    | Т  | U  | ٧   | W         | X | Υ  | Z    | AA   |
| AR20   | NPT 1/4       | NPT 1/8           | 40 | 57   | 26.5 | -2  | 91(max.94)   | 30   | 44    | 5.4 | 15.4 | 34 | 55 | 2.3 | M28 X 1   | 6 | 14 | 28.5 | 24.7 |
| AR30   | NPT 3/8       | NPT 1/8           | 53 | 58.8 | 30.7 | 3.5 | 113(max.116) | 41   | 46    | 6.5 | 8    | 40 | 53 | 2.3 | M38 X 1.5 | 7 | 19 | 38.5 | 31.1 |
| AR40   | NPT 1/2       | NPT 1/8           | 70 | 67.6 | 35.8 | 3.5 | 124(max.128) | 50   | 54    | 8.5 | 10.5 | 54 | 70 | 2.3 | M42 X 1.5 | 7 | 21 | 42.5 | 35.5 |

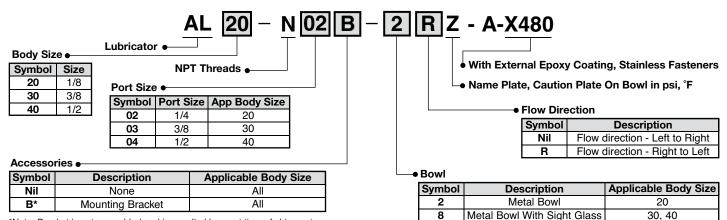
#### **Accessories**

| Model | Mounting Bracket Kit (Optional) | Panel Mounting Nut<br>(Optional) |
|-------|---------------------------------|----------------------------------|
| AR20  | AR23P-270AS-X48                 | AR23P-260S                       |
| AR30  | AR33P-270AS-X48                 | AR33P-260S                       |
| AR40  | AR43P-270AS-X48                 | AR43P-260S                       |



Series AL20~40 Lubricator

#### **How to Order**



<sup>\*</sup>Note: Bracket is not assembled and is supplied loose at time of shipment.

please contact SMC for availability.

Specifications



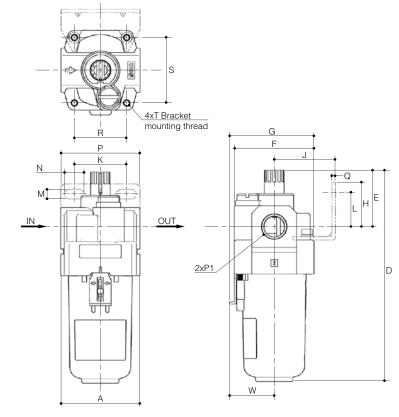
#### Body size 20 30 40 Operating specifications Same as standard - see catalog NAS40-60B 1/4" NPT 1/2" NPT Port size 3/8" NPT Bowl type Metal Metal with sight gauge **Body material** Die cast aluminum **Bowl material** Die cast aluminum Body, Bowl surface treatment Epoxy resin coating Individual mounting brackets Epoxy coated steel Fill plug Stainless steel 304 Sight dome Polycarbonate Sight glass hardware Stainless steel 304

Note: Other sizes, thread forms, options, etc. may be possible,

#### **Dimensions**

mm

| Madal | Dimensions |       |      |      |      |    |    |    |    |     |      | Mounting Bracket Kit |     |    |    |          |      |         |                  |
|-------|------------|-------|------|------|------|----|----|----|----|-----|------|----------------------|-----|----|----|----------|------|---------|------------------|
| Model | Α          | D     | E    | F    | G    | Н  | J  | K  | L  | М   | N    | Р                    | Q   | R  | S  | Т        | W    | P1      | (Optional)       |
| AL20  | 40         | 120.4 | 35.9 | 40   | -    | 28 | 30 | 27 | 22 | 5.4 | 8.4  | 40                   | 2.3 | 26 | 32 | M4 x 0.7 | -    | 1/4 NPT | AF22P-050AS-X480 |
| AL30  | 53         | 162.2 | 38.1 | 53.4 | 56.7 | 30 | 41 | 35 | 23 | 6.5 | 13   | 53                   | 2.3 | 35 | 44 | M4 x 0.7 | 30   | 3/8 NPT | AF32P-050AS-X480 |
| AL40  | 70         | 195.9 | 39.8 | 71   | 73.9 | 35 | 50 | 52 | 26 | 8.5 | 12.5 | 70                   | 2.3 | 47 | 60 | M5 x 0.8 | 38.4 | 1/2 NPT | AF42P-050AS-X480 |



# **Accessories**

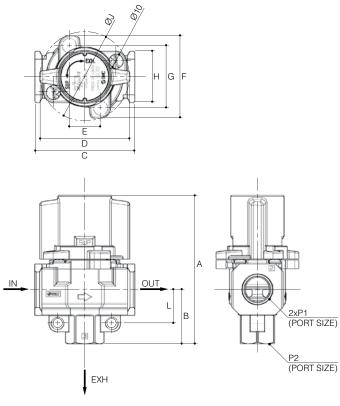
#### **Residual Pressure Relief 3 Port Valve (V)**

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



| Madal | Port 9  | Size | Flow Characteristics Cv |            |  |  |  |  |  |  |
|-------|---------|------|-------------------------|------------|--|--|--|--|--|--|
| Model | IN, OUT | EXH  | IN to OUT               | OUT to EXH |  |  |  |  |  |  |
| VHS20 | 1/4     | 1/8  | 0.88                    | 0.84       |  |  |  |  |  |  |
| VHS30 | 3/8     | 1/4  | 2.3                     | 1.9        |  |  |  |  |  |  |
| VHS40 | 1/2     | 3/8  | 3.8                     | 3.6        |  |  |  |  |  |  |

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

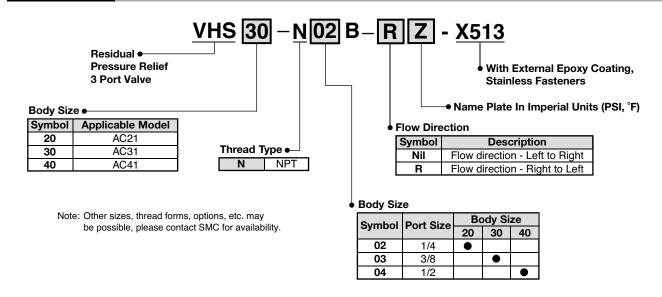


#### Caution

- If unit is to be used in a washdown application, avoid directing fluid into the exhaust port.
- Do not restrict the exhaust port.

#### **Dimensions** mm Model Α В С D Ε F G Н VHS20 66.4 22.3 40 33.6 28 14.8 37.5 14 46.6 43 VHS30 80.3 29.4 53 49 19 52 38 30 49 19 VHS40 104.9 38.5 70 63 22 58 44 36 63 24

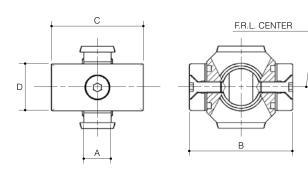
#### **How to Order**



#### **Spacer**

Epoxy Coated Aluminum, Stainless Screws, NBR Seals





| <b>Dimensions</b> mm |    |      |      |    |  |  |  |  |  |  |
|----------------------|----|------|------|----|--|--|--|--|--|--|
| Model                | Α  | В    | С    | D  |  |  |  |  |  |  |
| Y20-A-T4             | 10 | 40.5 | 21.4 | 10 |  |  |  |  |  |  |
| Y30-A-T4             | 11 | 47   | 29.5 | 18 |  |  |  |  |  |  |
| Y40-A-T4             | 14 | 53   | 48   | 24 |  |  |  |  |  |  |

# 

Dimensions

| Dillielisions            |      |     |    |    |    |    |    |     |     |   |    |      | <u> </u>          |
|--------------------------|------|-----|----|----|----|----|----|-----|-----|---|----|------|-------------------|
| Interface with T Bracket | Α    | В   | С  | D  | E  | F  | G  | н   | J   | K | L  | М    | Applicable Models |
| Y20T-A-T4                | 21.4 | 66  | 10 | 10 | 24 | 24 | 15 | 8.5 | 5.5 | 5 | 30 | 50.5 | AC21*-X2217       |
| Y30T-A-T4                | 29.5 | 90  | 18 | 11 | 35 | 35 | 16 | 11  | 7   | 7 | 41 | 65   | AC31*-X2217       |
| Y40T-A-T4                | 48   | 100 | 24 | 14 | 40 | 40 | 22 | 13  | 9   | 7 | 50 | 77   | AC41*-X2217       |

## Other Available Air Line Products with Epoxy Coating/Stainless Hardware

| Series  | Description   | Option Code |
|---------|---|-------------|
| 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        |
| AW30-40 | Filter-regulator with stainless construction and expanded temperature range   | X2622       |
| E*00-A  | Piping adapter  | X480        |
| VHS30   | Residual pressure relief 3-port valve, stainless steel                        | X2155       |
| VP*44   | Venting valve with direct monitoring and soft start (conforms to ISO 13849-1) | X597        |
| Y*10-A  | T interface   | X480        |
| Y*4-A   | Cross interface   | T3          |

Please contact SMC for ordering information

An all-stainless steel gauge with polycarbonate lens is available for use with the epoxy coated regulators (K50S-MP1.0-N01MS-W-X52).

Other gauge configurations are available, please consult the SMC gauge catalogs.

# Salt Spray Test Results (for reference)

#### 1. Test Conditions

- **Method:** In compliance with ASTM B117-07a (JIS Z 2371), leave parts in a salt spray test chamber, and compare rust generation.
- Conditions: Temperature: 95°F (35°C) Salt Water Concentration: 5%
- Time: 1000 hours [Frequency: 0hr, 24hrs, 48hrs, 72hrs, 96hrs, 168hrs, 240hrs, 480hrs, 720hrs, 1000hrs]
- Samples: Parts for AF and AW30 (See Figure 1.)
- Part descriptions: 4 parts (1) Body (2) Draincock (3) Small screw for level gauge (4) Bonnet screw
- 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   |   | Туре         | Material & Treatment   | Results  |  |  |
|----------|---|---|--------------|--|--|--|--|
|          | Rody  | A | Standard     | Material: Die Cast Aluminum<br>Treatment: Platinum Coating         | Rusted in 480hrs<br>Part of coating swelled      |  |  |
| <b>'</b> | Body  | В | Special X480 | Material: Die Cast Aluminum<br>Treatment: Platinum & Epoxy Coating | Not rusted in 1000hrs<br>Part of coating swelled |  |  |
| 2        | Drain cock  | A | Standard     | Material: Die Cast Aluminum<br>Treatment: Zinc Chromate            | Rusted in 24hrs                                  |  |  |
|          |   | В | Special X480 | Material: SUS  | Not rusted in 1000hrs                            |  |  |
|          | 3 Cross-recessed round head screw for metal bowl with level gauge |   | Standard     | Material: Steel<br>Treatment: Nickel Plating                       | Rusted in 24hrs                                  |  |  |
|          |   |   | Special X480 | Material: SUS  | Not rusted in 1000hrs                            |  |  |
| 4        | Self-tapping screw<br>for AR and AW<br>bonnet                     |   | Standard     | Material: Steel<br>Treatment: Zinc Chromate                        | Rusted in 24hrs                                  |  |  |
| *        |   |   | Special X480 | Material: SUS  | Not rusted in 1000hrs                            |  |  |

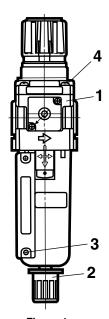
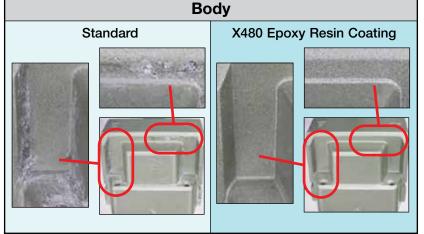
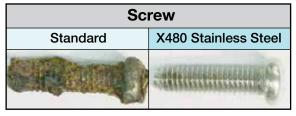
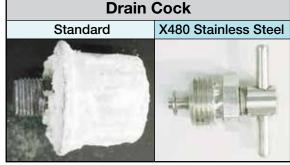


Figure 1









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