

ROSS CONTROLS®

FILTERS



FILTERS - KEY FEATURES

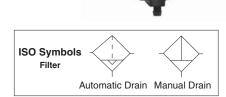
- Filters 5- and 40-micron filtration levels
- Coalescing Filters 0.3- and 0.01-micron filtration levels
- Oil Vapor Removal (Adsorbing) Filters removes oil and hydrocarbon vapors
- Filter Drains manual, automatic, internal float, and automatic external drains
- Modular and inline mounting options
- Metal and High Strength polycarbonate bowl options
- Several Differential Gauge options available

| | | A | VAIL | ABL | E P | ORT : | SIZE | s | | MOU | NTING | FLOW | | OPTI | IONS | ; | | F | ILTR. | ATIO | N | | |
|-----------------------|------|-----|------|-------|-------|-------|------|------|---|--------|---------|-----------------|--------------------|------------|-----------------|--------------|---------|--------|-------|-------|-------|------------------|---------------|
| FILTER TYPE/SERIES | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 11/4 | 11/2 | 2 | INLINE | MODULAR | MAX FLOW (scfm) | POLYCARBONATE BOWL | METAL BOWL | AUTOMATIC DRAIN | MANUAL DRAIN | 0.01 µm | 0.3 µm | 5 µm | 20 µm | 40 µm | ACTIVATED CARBON | Page |
| FILTERS | | | | | | | | | | | | | | | | | | | | | | | |
| BANTAM | | | | | | | | | | | | 30 | | | | | | | | | | | E1.3 |
| MINIATURE | | | | | | | | | | | | 23 | | | | | | | | | | | E1.4 |
| MID-SIZE | | | | | | | | | | | | 75 | | | | | | | | | | | E1.5 |
| MD3™ | | | | | | | | | | | | 92 | | | | | | | | | | | E1.6 |
| FULL-SIZE | | | | | | | | | | | | 155 | | | | | | | | | | | E1.7 |
| MD4™ | | | | | | | | | | | | 205 | | | | | | | | | | | E1.8 |
| HIGH-CAPACITY | | | | | | | | | | | | 1000 | | | | | | | | | | | E1.9 E1.11 |
| COALESCING FIL | TER | S | | | | | | | | , | | | | | | | | | | | | | |
| BANTAM | | | | | | | | | | | | 11 | | | | | | | | | | | E1.12 |
| MINIATURE | | | | | | | | | | | | 10 | | | | | | | | | | | E1.13 |
| MID-SIZE | | | | | | | | | | | | 100 | | | | | | | | | | | E1.14 |
| MD3™ | | | | | | | | | | | | 125 | | | | | | | | | | | E1.15 |
| FULL-SIZE | | | | | | | | | | | | 100 | | | | | | | | | | | E1.16 |
| MD4™ | | | | | | | | | | | | 158 | | | | | | | | | | | E1.17 |
| HIGH-CAPACITY | | | | | | | | | | | | 840 | | | | | | | | | | | E1.18- E1.22 |
| OIL VAPOR REMO | OVAL | (AD | SOF | BIN | G) FI | LTEF | RS | | | | | | | | | | | | | | | | |
| MD3™ | | | | | | | | | | | | 125 | | | | | | | | | | | E1.23 |
| MD4™ | | | | | | | | | | | | 165 | | | | | | | | | | | E1.24 |
| CLEAN AIR PACK | AGE | S | | | | | 1 | | | | | | | | | | | | | | | | |
| MD3™ | | | | | | | | | | | | 125 | | | | | | | | | | | E1.25 - E1.26 |
| MD4™ | | | | | | | | | | | | 158 | | | | | | | | | | | E1.27 -E1.28 |
| INLINE SILENCER | RS/I | REC | LASS | SIFIE | RS | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | E1.29 |
| DRIP LEG DRAIN | S | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | E1.30 |



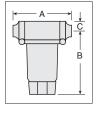
Port Sizes: 1/8 to 1/4 - Flow to 30 scfm

| | Model Numbers | | | | | | | |
|------------|----------------------------------|------------|--------------------|------------|--|--|--|--|
| Port Size | Automatic I |)rain | Manual Drain | | | | | |
| | Polycarbonate Bowl | Metal Bowl | Polycarbonate Bowl | Metal Bowl | | | | |
| With THRE | With THREADED PORTS * | | | | | | | |
| 1/8 | 5B01B0100 | 5B01B0200 | 5B01B0300 | 5B01B0400 | | | | |
| 1/4* | 5B02B0100 | 5B02B0200 | 5B02B0300 | 5B02B0400 | | | | |
| With Quick | With Quick-Connect TUBE FITTINGS | | | | | | | |
| 1/4 | 5B03B0100 | 5B03B0200 | 5B03B0300 | 5B03B0400 | | | | |
| 3/8 | 5B04B0100 | 5B04B0200 | 5B04B0300 | 5B04B0400 | | | | |
| 4mm | 5B05B0100 | 5B05B0200 | 5B05B0300 | 5B05B0400 | | | | |
| 6mm | 5B06B0100 | 5B06B0200 | 5B06B0300 | 5B06B0400 | | | | |
| 8mm | 5B07B0100 | 5B07B0200 | 5B07B0300 | 5B07B0400 | | | | |
| 10mm | 5B08B0100 | 5B08B0200 | 5B08B0300 | 5B08B0400 | | | | |
| | | | | | | | | |



| * NPT port threads. For BSPP threads add a | "C" prefix to the model number e.g | ., C5B01B0100. |
|--|------------------------------------|----------------|
|--|------------------------------------|----------------|

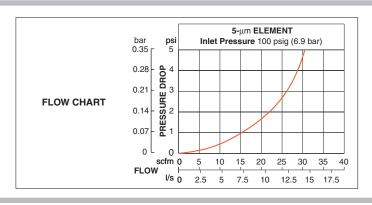
| Dowt Cine | Bowl | | Dimensions | inches (mm |) | Weight | | |
|--------------|--|-------------|--------------|------------|----------|-------------|--|--|
| Port Size | Capacity | Α | B** | С | Depth | lb (kg) | | |
| No Port | 2-oz (60-ml) | 1.7 (43) | 3.9 (99) | 0.5 (13) | 1.8 (45) | 0.27 (0.12) | | |
| 1/8, 1/4 | 2-oz (60-ml) | 3.0 (76) | 3.9 (99) | 0.5 (13) | 1.8 (45) | 0.49 (0.22) | | |
| Models bel | Models below have quick-connect tube fittings. | | | | | | | |
| 1/4 | 2-oz (60-ml) | 3.4 (86) | 3.9 (99) | 0.5 (13) | 1.8 (45) | 0.47 (0.21) | | |
| 3/8 | 2-oz (60-ml) | 3.9 (99) | 3.9 (99) | 0.5 (13) | 1.8 (45) | 0.47 (0.21) | | |
| 4 mm | 2-oz (60-ml) | 3.4 (86) | 3.9 (99) | 0.5 (13) | 1.8 (45) | 0.47 (0.21) | | |
| 6 mm | 2-oz (60-ml) | 3.4 (86) | 3.9 (99) | 0.5 (13) | 1.8 (45) | 0.47 (0.21) | | |
| 8 mm | 2-oz (60-ml) | 3.4 (86) | 3.9 (99) | 0.5 (13) | 1.8 (45) | 0.47 (0.21) | | |
| 10 mm | 2-oz (60-ml) | 3.9 (99) | 3.9 (99) | 0.5 (13) | 1.8 (45) | 0.47 (0.21) | | |
| ** Dimension | n for polycarbonat | e bowl; met | al bowl is 3 | .8 (97). | | | | |



REPLACEMENT FILTER ELEMENTS

Element Rating Element Material Model Number

5-µm Polyethylene 933K77



Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.
Ambient/Media Temperature:

Polycarbonate bowl: 40° to 125°F (4° to 52°C). Metal bowl: 40° to 150°F (4° to 66°C).

Fluid Media: Compressed air.

Inlet Pressure - Automatic drain model:

Polycarbonate bowl: Up to 150 psig (up to 10 bar). Metal bowl: Up to 200 psig (up to 14 bar).

matic drain model:

v/: Up to 150 psig (up to 10 bar).

Inlet Pressure - Manual drain model:

Polycarbonate bowl: 0 to 150 psig (0 to 10 bar).

Metal bowl: 0 to 200 psig (0 to 14 bar).

Filter Element: 5-micron rated polyethylene.

Body: Acetal.

Bowl: Polycarbonate or aluminum.

Seals: Nitrile.

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.



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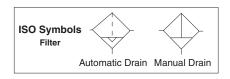
Port Sizes: 1/8 & 1/4 - Flow to 23 scfm

| | | Model Numbers* | | | | | | | |
|-----------|--------------------|----------------|--------------------|------------|--|--|--|--|--|
| Port Size | Automatic D | Prain | Manual Drain | | | | | | |
| | Polycarbonate Bowl | Metal Bowl | Polycarbonate Bowl | Metal Bowl | | | | | |
| 1/8 | 5021B1010 | 5022B1010 | 5011B1010 | 5012B1010 | | | | | |
| 1/4 | 5021B2010 | 5022B2010 | 5011B2010 | 5012B2010 | | | | | |

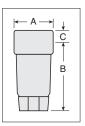


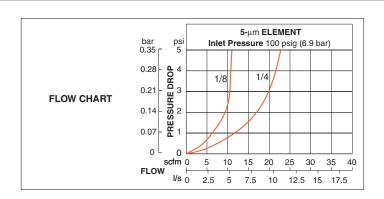


| Port | Bowl Type Bowl | | ı | Dimensions inches (mm) | | | | | |
|----------|----------------|--------------|----------|------------------------|-----------|----------|-------------|--|--|
| Size | Bowl Type | Capacity | Α | В | С | Depth | lb (kg) | | |
| 1/8. 1/4 | Polycarbonate | 2-oz (60-ml) | 1.6 (41) | 3.9 (99) | 0.4 (9.5) | 1.6 (41) | 0.33 (0.15) | | |
| 1/0, 1/4 | Aluminum | 2-oz (60-ml) | 1.6 (41) | 4.3 (109) | 0.4 (9.5) | 1.6 (41) | 0.35 (0.16) | | |



| REPLACEMENT FILTER ELEMENTS | | | | | | |
|-----------------------------|--------------|--------|--|--|--|--|
| Element Rating | | | | | | |
| 5-µm | Polyethylene | 933K77 | | | | |





Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.
Ambient/Media Temperature:

Polycarbonate bowl: 40° to 125°F (4° to 52°C). Metal bowl: 40° to 150°F (4° to 66°C).

Fluid Media: Compressed air.

Inlet Pressure - Automatic drain model:

Polycarbonate bowl: Up to 150 psig (up to 10 bar). Metal bowl: Up to 200 psig (up to 14 bar). Inlet Pressure - Manual drain model:

Polycarbonate bowl: 0 to 150 psig (0 to 10 bar).

Metal bowl: 0 to 200 psig (0 to 14 bar).

Filter Element: 5-micron rated polyethylene.

Body: Aluminum.

Bowl: Polycarbonate or aluminum.

Seals: Nitrile.



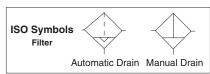
Port Sizes: 1/4, 3/8 & 1/2 - Flow to 75 scfm

| | Model Numbers* | | | | | | | | |
|-----------|--------------------|------------|--------------------|------------|--|--|--|--|--|
| Port Size | Automatic D | rain | Manual Drain | | | | | | |
| | Polycarbonate Bowl | Metal Bowl | Polycarbonate Bowl | Metal Bowl | | | | | |
| 1/4 | 5021B2007 | 5022B2007 | 5011B2007 | 5012B2007 | | | | | |
| 3/8 | 5021B3027 | 5022B3027 | 5011B3026 | 5012B3026 | | | | | |
| 1/2 | 5021B4007 | 5022B4007 | 5011B4007 | 5012B4007 | | | | | |

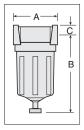
^{*} NPT port threads. For BSPP threads add a "C" prefix to the model number e.g., C5021B2007.

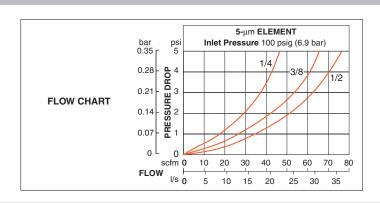
| Port Size | Bowl Type | Bowl | D | 1) | Weight | | | |
|-----------|---------------|---------------|----------|-----------|----------|----------|-------------|--|
| Port Size | Bowl Type | Capacity | Α | В | С | Depth | lb (kg) | |
| 1/4, 3/8, | Polycarbonate | 4-oz (120-ml) | 2.7 (67) | 4.8 (122) | 0.6 (16) | 2.4 (60) | 1.13 (0.51) | |
| 1/2 | Zinc | 4-oz (120-ml) | 2.7 (67) | 4.9 (123) | 0.6 (16) | 2.4 (60) | 1.50 (0.68) | |





| REPLACEMENT FILTER ELEMENTS | | | | | | |
|--|--------------|--------|--|--|--|--|
| Element Rating Element Material Model Number | | | | | | |
| 5-µm | Polyethylene | 936K77 | | | | |





Options: Internal Float Drain, consult ROSS.

Accessories ordered separately, refer to page E6.3-4, E6.7.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.
Ambient/Media Temperature:

Polycarbonate bowl: 40° to 125°F (4° to 52°C). Metal bowl: 40° to 175°F (4° to 79°C).

Fluid Media: Compressed air.

Inlet Pressure - Automatic drain model:

Polycarbonate bowl: Up to 150 psig (up to 10 bar). Metal bowl: Up to 200 psig (up to 14 bar).

Inlet Pressure - Manual drain model:

Polycarbonate bowl: 0 to 150 psig (0 to 10 bar).

Metal bowl: 0 to 200 psig (0 to 14 bar).

Filter Element: 5-micron rated polyethylene.

Body: Zinc.

Bowl: Polycarbonate bowl with zinc shatterguard, or zinc bowl.

Seals: Nitrile.

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.



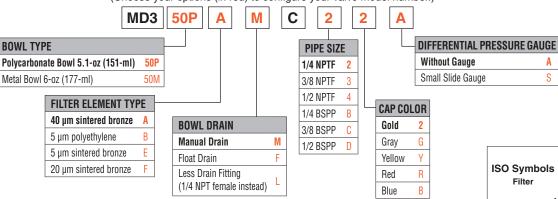
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E1.5

Port Sizes: 1/4, 3/8 & 1/2 - Flow to 92 scfm

HOW TO ORDER

(Choose your options (in red) to configure your valve model number.)



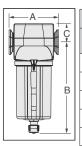




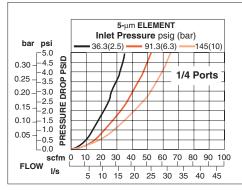
S

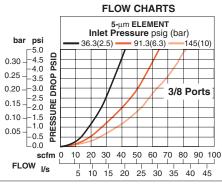
| Port Boul Type | | | Weight | | | |
|----------------|---------------|------------|--------------|-------------|-------------|-------------|
| Size | Bowl Type | Α | B* | С | Depth | lb (kg) |
| 1/4, | Polycarbonate | 3.0 (76.2) | 5.54 (140.6) | 1.12 (28.3) | 2.51 (63.8) | 1.29 (0.59) |
| 3/8, 1/2 | Aluminum | 5.0 (127) | 6.42 (163.1) | 1.12 (28.3) | 2.76 (70.1) | 1.41 (0.64) |

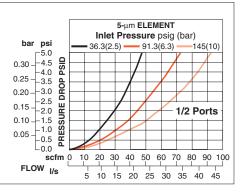
With small differential gauge, add 1.21 (31) to dimension C. Bowl removal clearance: add 3.1 (79).



| REPLACEMENT FILTER ELEMENTS* | | | | | | |
|---|---------------------|--------------|--|--|--|--|
| Element Rating | Element Material | Model Number | | | | |
| 5-µm | Polyethylene | R-A60F-03PE5 | | | | |
| 5-µm | Sintered Bronze | R-A60F-03E5 | | | | |
| 20-µm | Sintered Bronze | R-A60F-03E4 | | | | |
| 40-µm | Sintered Bronze | R-A60F-03E3 | | | | |
| * For polycarbonate and metal bowl types. | | | | | | |







Options: Differential Pressure Gauge, for additional information refer to page E6.6. Options: External Bowl Drains, refer to page E6.7. Accessories ordered separately, refer to page E6.3-5.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Sintered or fiber. Ambient/Media Temperature:

Polycarbonate bowl: 40° to 125°F (4° to 52°C).

Metal bowl: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure - Automatic drain model:

Polycarbonate bowl: 30 to 150 psig (2 to 10 bar).

Metal bowl: 30 to 200 psig (2 to 14 bar).

Inlet Pressure - Manual drain model:

Polycarbonate bowl: 0 to 150 psig (0 to 10 bar).

Metal bowl: 0 to 250 psig (0 to 17 bar).

Filter Element: 5-micron polyethylene, or 5-, 20-, 40-µm sintered bronze.

Body: Die-cast zinc.

Bowl: Polycarbonate bowl with nylon shatterguard, or aluminum bowl with

clear nylon sight glass.

Seals: Nitrile

Port Sizes: 1/4, 3/8, 1/2 & 3/4 - Flow to 155 scfm

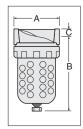
| | Model Numbers* | | | | | |
|--------------|--------------------------|---------------------|--------------------------|------------|--|--|
| Port Size | Automatic Drain | | Manual Drain | | | |
| | Polycarbonate Bowl | Metal Bowl | Polycarbonate Bowl | Metal Bowl | | |
| 1/4 | 5021B2008 | 5022B2005 | 5011B2008 | 5012B2006 | | |
| 3/8 | 5021B3008 | 5022B3005 | 5011B3008 | 5012B3006 | | |
| 1/2 | 5021B4008 | 5022B4005 | 5011B4008 | 5012B4006 | | |
| 3/4 | 5021B5018 | 5022B5015 | 5011B5018 | 5012B5016 | | |
| * NPT port t | hreads. For BSPP threads | add a "C" prefix to | the model number e.g., C | 5021B2008. | | |

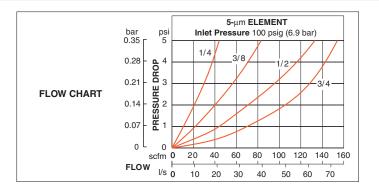


| Port Size | Bowl | Bowl | Dimensions inches (mm) | | | | Weight |
|-----------|---------------|---------------|------------------------|-----------|----------|----------|-------------|
| Port Size | Туре | Capacity | Α | В | С | Depth | lb (kg) |
| 1/4, 3/8, | Polycarbonate | 8-oz (240-ml) | 3.5 (89) | 5.8 (146) | 0.6 (16) | 3.5 (89) | 1.93 (0.88) |
| 1/2, 3/4 | Zinc | 8-oz (240-ml) | 3.5 (89) | 6.4 (163) | 0.6 (16) | 3.5 (89) | 2.90 (1.32) |



| REPLACEMENT FILTER ELEMENTS | | | | |
|-----------------------------|------------------|--------------|--|--|
| Element Rating | Element Material | Model Number | | |
| 5-µm | Polyethylene | 939K77 | | |





Options: Automatic External Drain, refer to page E6.7.
Internal Float Drain, consult ROSS.
Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.
Ambient/Media Temperature:

Polycarbonate bowl: 40° to 125°F (4° to 52°C). Metal bowl: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure - Automatic drain model:

Polycarbonate bowl: Up to 150 psig (up to 10 bar). Metal bowl: Up to 200 psig (up to 14 bar).

Inlet Pressure - Manual drain model:

Polycarbonate bowl: 0 to 150 psig (0 to 10 bar).

Metal bowl: 0 to 200 psig (0 to 14 bar).

Filter Element: 5-micron rated polyethylene.

Body: Zinc.

Bowl: Polycarbonate bowl with steel shatterguard, or zinc bowl with clear

nylon sight glass. **Bowl Ring:** Aluminum.

Seals: Nitrile.

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.



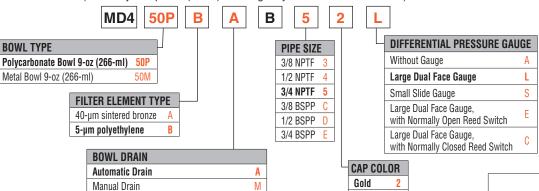
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Port Sizes: 3/8, 1/2 & 3/4 - Flow to 205 scfm

HOW TO ORDER

(Choose your options (in red) to configure your valve model number.)





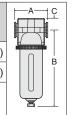


| Port | David Turns | Di | Weight | | | |
|----------|---------------|------------|-----------|----------|----------|-------------|
| Size | Bowl Type | Α | B** | С | Depth | lb (kg) |
| 3/8, | Polycarbonate | 3.0 (76.2) | 7.7 (195) | 1.1 (28) | 2.9 (73) | 2.13 (0.97) |
| 1/2, 3/4 | Aluminum | 3.5 (76.2) | 7.6 (193) | 1.1 (28) | 3.1 (79) | 2.13 (0.97) |
| | | | | | | |

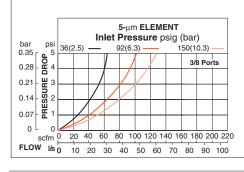
Less Drain Fitting - 1/4 NPT female instead

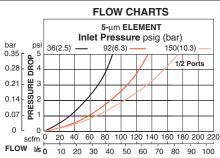
Internal Float Drain

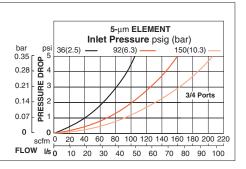
*With small differential gauge, add 1.21 (31) to dimension C. Bowl removal clearance: add 3.1 (79).



| REPLACEMENT FILTER ELEMENTS | | | | | | |
|-----------------------------|------------------|----------------|--|--|--|--|
| Element Rating | Element Material | Element Number | | | | |
| 5-µm | Polyethylene | R-A115-106PE5 | | | | |
| 40-µm | Sintered Bronze | R-A115-106PE3 | | | | |







Options: Differential Pressure Gauge, for additional information refer to page E6.6.

Options: External Bowl Drains, refer to page E6.7.

Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Sintered or fiber. **Ambient/Media Temperature:**

Polycarbonate bowl: 40° to 125°F (4° to 52°C). Metal bowl: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure - Automatic drain model:

Polycarbonate bowl: Up to 150 psig (up to 10 bar). Metal bowl: Up to 200 psig (up to 14 bar).

Inlet Pressure - Manual drain model:

Polycarbonate bowl: 0 to 150 psig (0 to 10 bar).

Metal bowl: 0 to 200 psig (0 to 14 bar).

Filter Element: 5-micron rated polyethylene, or 40-micron rated sintered

bronze.

Body: Die-cast zinc.

Bowl: Polycarbonate bowl with steel shatterguard, or aluminum bowl with

clear nylon sight glass. Bowl Ring: Nylon. Seals: Nitrile

1

Aluminum

Port Sizes: 3/4 & 1 - Flow to 275 scfm

| | Model Numbers* | | | | | |
|-----------|--------------------|------------|--------------------|------------|--|--|
| Port Size | Automatic I | Drain | Manual Drain | | | |
| | Polycarbonate Bowl | Metal Bowl | Polycarbonate Bowl | Metal Bowl | | |
| 3/4 | 5021B5008 | 5022B5005 | 5011B5008 | 5012B5006 | | |
| 1 | 5021B6008 | 5022B6005 | 5011B6008 | 5012B6006 | | |

| Port Bowl | | | Bowl Bowl Dimensions inches (mm) | | | | | Weight |
|-----------|------|---------------|----------------------------------|-----------|-----------|----------|-----------|------------|
| | Size | Туре | Capacity | Α | В | С | Depth | lb (kg) |
| | 3/4 | Polycarbonate | 16-oz (480-ml) | 4.5 (114) | 8.0 (203) | 0.8 (21) | 4.2 (106) | 2.44 (1.11 |

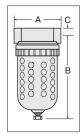
16-oz (480-ml) | 4.5 (114) | 8.3 (210)

*NPT port threads. For BSPP threads add a "C" prefix to the model number e.g., C5021B5008.



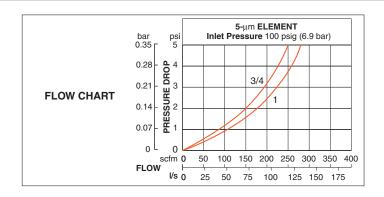


| REPLACEMENT FILTER ELEMENTS | | | | | |
|-----------------------------|------------------|--------------|--|--|--|
| Element Rating | Element Material | Model Number | | | |
| 5-μm | Polyethylene | 1010K77 | | | |



0.8 (21)

4.2 (106) 3.25 (1.48)



Options: Automatic External Drain, refer to page E6.7.
Internal float drain, consult ROSS.
Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.

Ambient/Media Temperature:

Polycarbonate bowl: 40° to 125°F (4° to 52°C). Metal bowl: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure - Automatic drain model:

Polycarbonate bowl: Up to 150 psig (up to 10 bar). Metal bowl: Up to 200 psig (up to 14 bar).

Inlet Pressure - Manual drain model:

Polycarbonate bowl: 0 to 150 psig (0 to 10 bar).

Metal bowl: 0 to 200 psig (0 to 14 bar).

Filter Element: 5-micron rated polyethylene.

Body: Aluminum.

Bowl: Polycarbonate bowl with steel shatterguard, or aluminum bowl with

clear nylon sight glass. **Bowl Ring:** Aluminum.

Seals: Nitrile.

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.



Online Version Rev. 10/02/17

E1.9

Port Sizes: 11/4 & 11/2 - Flow to 660 scfm

| | | Model Numbers* | | | |
|-----------|-----------------------|-----------------|--------------|--|--|
| Port Size | Filter Element Rating | Automatic Drain | Manual Drain | | |
| | | Metal Bowl | Metal Bowl | | |
| 11/4 | 5-μm | 5022B7019 | 5012B7019 | | |
| 1 /4 | 40-μm | 5X00B7051 | 5X00B7052 | | |
| 1½ | 5-μm | 5022B8019 | 5012B8019 | | |
| 1 //2 | 40-μm | 5X00B8037 | 5X00B8051 | | |

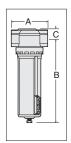
NPT port threads. For BSPP threads add a "C" prefix to the model number e.g., C5022B7019.

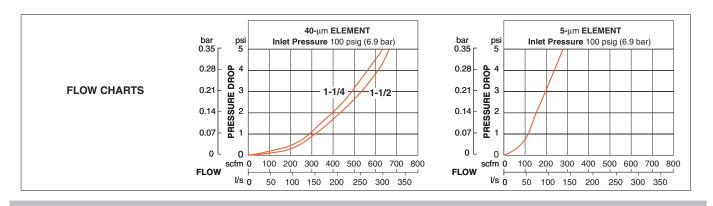
| Port Bowl | | Bowl | Dimensions inches (mm) | | | | Weight |
|-----------|----------|-----------------|------------------------|------------|---------|-----------|-------------|
| Size | Туре | Capacity | А | В | С | Depth | lb (kg) |
| 11/4 | Aluminum | 35-oz (1000-ml) | 5.5 (140) | 10.7 (271) | 1.4(36) | 4.2 (106) | 1.93 (0.88) |
| 1½ | Aluminum | 35-oz (1000-ml) | 5.5 (140) | 10.7 (271) | 1.4(36) | 4.2 (106) | 1.93 (0.88) |





| REPLACEMENT FILTER ELEMENTS | | | | |
|-----------------------------|------------------|--------------|--|--|
| Element Rating | Element Material | Model Number | | |
| 5-µm | Sintered Bronze | 1656K77 | | |
| 40-μm | Sintered Bronze | R-A114-106E3 | | |





Options: External Automatic Drain, refer to page E6.7.
Internal float drain, consult ROSS.
Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Sintered.

Ambient/Media Temperature: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure:

Automatic drain model: Up to 200 psig (up to 14 bar). Manual drain model: 0 to 200 psig (0 to 14 bar).

Filter Element: 40-micron rated or 5-micron rated sintered bronze.

Body: Aluminum.

Bowl: Aluminum bowl with clear nylon sight glass.

Bowl Ring: Aluminum.

Seals: Nitrile.



Port Sizes: 11/4, 11/2 & 2 - Flow to 1000 scfm

| Port Size | Filter Flores A Detine | Model Numbers* | | | |
|------------|------------------------|--------------------------------|--------------|--|--|
| | Filter Element Rating | Automatic Internal Float Drain | Manual Drain | | |
| 11/4 | 5-μm | 5022B7018 | 5012B7018 | | |
| 11/4 | 40-μm | 5X00B7025 | 5X00B7054 | | |
| 1 ½ | 5-μm | 5022B8018 | 5012B8018 | | |
| 1 ½ | 40-μm | 5X00B8018 | 5X00B8019 | | |
| 2 | 5-μm | 5022B9018 | 5012B9018 | | |
| 2 | 40-μm | 5X00B9004 | 5X00B9003 | | |

| Port Size | Filter Element Rating | Model Numbers* | | | | | |
|---|------------------------|--------------------------------|--------------|--|--|--|--|
| Port Size | Filter Element Hatting | Automatic Internal Float Drain | Manual Drain | | | | |
| 11/4 | 5-μm | 5022B7018 | 5012B7018 | | | | |
| 11/4 | 40-μm | 5X00B7025 | 5X00B7054 | | | | |
| 11/2 | 5-μm | 5022B8018 | 5012B8018 | | | | |
| 11/2 | 40-μm | 5X00B8018 | 5X00B8019 | | | | |
| 2 | 5-μm | 5022B9018 | 5012B9018 | | | | |
| 2 | 40-μm | 5X00B9004 | 5X00B9003 | | | | |
| * NPT port threads. For BSPP threads add a "C" prefix to the model number e.g., C5022B7018. | | | | | | | |

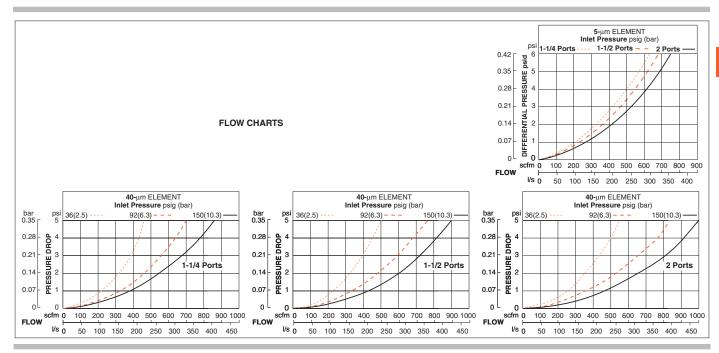


| ISO Symbols Filter | | - |
|-----------------------|----------------|--------------|
| Α | utomatic Drain | Manual Drain |

| Do | Bowl | | Bowl | | Weight | | | |
|-----------|-----------------|----------|------------------|-----------|------------|------------|-------------|-------------|
| Port Size | Туре | Capacity | Α | В | С | Depth | lb (kg) | |
| 11/4 | i, 1½, 2 | Aluminum | 123-oz (3700-ml) | 8.1 (204) | 12.0 (305) | 2.4 (60.3) | 8.0 (203.2) | 14.3 (6.59) |

| REPLACEMENT FILTER ELEMENTS | | | | | |
|-----------------------------|------------------|--------------|--|--|--|
| Element Rating | Element Material | Model Number | | | |
| 5-µm | Sintered Bronze | 942K77 | | | |
| 40-μm | Sintered Bronze | 944K77 | | | |





Options: External Automatic Drain, refer to page E6.7. Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Sintered or fiber.

Ambient/Media Temperature: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure:

Internal float drain model: 30 to 200 psig (2.1 to 14 bar). Manual drain model: 0 to 200 psig (0 to 14 bar).

Filter Element: 40-micron rated or 5-micron rated sintered bronze.

Body: Aluminum. Bowl: Aluminum. Seals: Nitrile.

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.



Online Version Rev. 10/02/17

E1.11

Port Sizes: 1/8 & 1/4 - Flow to 11 scfm

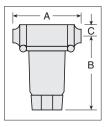
| | Model Numbers | | | | | | | |
|------------|-------------------------|---------------------|--------------------|------------|--|--|--|--|
| Port Size | Automatic D |)rain | Manual Dr | ain | | | | |
| | Polycarbonate Bowl | Metal Bowl | Polycarbonate Bowl | Metal Bowl | | | | |
| With THRE | EADED PORTS* | | | | | | | |
| 1/8 | 5B01B0700 | 5B01B0800 | 5B01B0500 | 5B01B0600 | | | | |
| 1/4 | 5B02B0700 | 5B02B0800 5B02B0500 | | 5B02B0600 | | | | |
| With Quick | k-Connect TUBE FITTINGS | | | | | | | |
| 1/4 | 5B03B0700 | 5B03B0800 | 5B03B0500 | 5B03B0600 | | | | |
| 3/8 | 5B04B0700 | 5B04B0800 | 5B04B0500 | 5B04B0600 | | | | |
| 4mm | 5B05B0700 | 5B05B0800 | 5B05B0500 | 5B05B0600 | | | | |
| 6mm | 5B06B0700 | 5B06B0800 | 5B06B0500 | 5B06B0600 | | | | |
| 8mm | 5B07B0700 | 5B07B0800 | 5B07B0500 | 5B07B0600 | | | | |
| 10mm | 5B08B0700 | 5B08B0800 | 5B08B0500 | 5B08B0600 | | | | |

^{*} NPT port threads. For BSPP threads add a "C" prefix to the model number e.g., C5B01B0700. Models include 0.3-micron rated filter element.

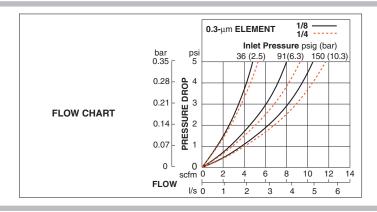




| Port Size | Bowl | Di | Weight | | | | | | |
|-----------|---|----------|----------|----------|----------|-------------|--|--|--|
| Port Size | Capacity | A B** | | С | Depth | lb (kg) | | | |
| No Ports | 2-oz (60-ml) | 1.7 (43) | 3.9 (99) | 0.5 (13) | 1.8 (45) | 0.27 (0.12) | | | |
| 1/8, 1/4 | 2-oz (60-ml) | 3.0 (76) | 3.9 (99) | 0.5 (13) | 1.8 (45) | 0.49 (0.22) | | | |
| Models b | Models below have quick-connect tube fittings. | | | | | | | | |
| 1/4 | 2-oz (60-ml) | 3.4 (86) | 3.9 (99) | 0.5 (13) | 1.8 (45) | 0.47 (0.21) | | | |
| 3/8 | 2-oz (60-ml) | 3.9 (99) | 3.9 (99) | 0.5 (13) | 1.8 (45) | 0.47 (0.21) | | | |
| 4 mm | 2-oz (60-ml) | 3.4 (86) | 3.9 (99) | 0.5 (13) | 1.8 (45) | 0.47 (0.21) | | | |
| 6 mm | 2-oz (60-ml) | 3.4 (86) | 3.9 (99) | 0.5 (13) | 1.8 (45) | 0.47 (0.21) | | | |
| 8 mm | 2-oz (60-ml) | 3.4 (86) | 3.9 (99) | 0.5 (13) | 1.8 (45) | 0.47 (0.21) | | | |
| 10 mm | 2-oz (60-ml) | 3.9 (99) | 3.9 (99) | 0.5 (13) | 1.8 (45) | 0.47 (0.21) | | | |
| ** Dimens | ** Dimension for polycarbonate bowl; aluminum bowl is 3.8 (97). | | | | | | | | |



| REPLACEMENT FILTER ELEMENTS | | | | | |
|-----------------------------|--------------------------|--------------|--|--|--|
| Element Rating | Element Material | Model Number | | | |
| 0.3-µm | Borosilicate-glass-fiber | 945K77 | | | |
| 0.01-µm | Borosilicate-glass-fiber | R-A-10F-16E8 | | | |



Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.
Ambient/Media Temperature:

Polycarbonate bowl: 40° to 125°F (4° to 52°C). Metal bowl: 40° to 150°F (4° to 66°C).

Fluid Media: Compressed air.

Inlet Pressure - Automatic drain model:

Polycarbonate bowl: Up to 150 psig (up to 10 bar). Metal bowl: Up to 200 psig (up to 14 bar).

Inlet Pressure - Manual drain model:

Polycarbonate bowl: 0 to 150 psig (0 to 10 bar).

Metal bowl: 0 to 200 psig (0 to 14 bar).

Filter Element: 0.3-micron rated, or 0.01-micron rated borosilicate-glass-

fiber element. **Body:** Acetal.

Bowl: Polycarbonate or aluminum.

Seals: Nitrile.

Port Sizes: 1/8 & 1/4 - Flow to 10 scfm

| | Model Numbers* | | | | | | |
|-----------|--------------------|------------|--------------------|------------|--|--|--|
| Port Size | Automatic D | rain | Manual Drain | | | | |
| | Polycarbonate Bowl | Metal Bowl | Polycarbonate Bowl | Metal Bowl | | | |
| 1/8 | 5031B1128 | 5032B1118 | 5031B1028 | 5032B1028 | | | |
| 1/4 | 5031B2128 | 5032B2128 | 5031B2028 | 5032B2028 | | | |

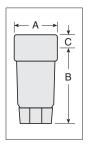
* NPT port threads. For BSPP threads add a "C" prefix to the model number e.g., C5031B1128. Models include 0.3-micron rated filter element.

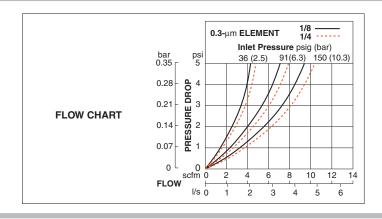
| Port Size | Dowl Type | Bowl | ı | Weight | | | |
|-----------|---------------|--------------|----------|-----------|-----------|----------|-------------|
| | Bowl Type | Capacity | Α | В | С | Depth | lb (kg) |
| 1/8, 1/4 | Polycarbonate | 2-oz (60-ml) | 1.6 (41) | 3.6 (92) | 0.4 (9.5) | 1.6 (41) | 0.33 (0.15) |
| 1/8, 1/4 | Aluminum | 2-oz (60-ml) | 1.6 (41) | 4.3 (109) | 0.4 (9.5) | 1.6 (41) | 0.35 (0.16) |





| REPLACEMENT FILTER ELEMENTS | | | | | |
|-----------------------------|--------------------------|--------------|--|--|--|
| Element Rating | Element Material | Model Number | | | |
| 0.3-μm | Borosilicate-glass-fiber | 945K77 | | | |
| 0.01-µm | Borosilicate-glass-fiber | R-A-10F-16E8 | | | |





Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.
Ambient/Media Temperature:

Polycarbonate bowl: 40° to 125°F (4° to 52°C).

Metal bowl: 40° to 150°F (4° to 66°C)

Fluid Media: Compressed air.

Inlet Pressure - Automatic drain model:

Polycarbonate bowl: Up to 150 psig (up to 10 bar). Metal bowl: Up to 200 psig (up to 14 bar).

Inlet Pressure - Manual drain model:

Polycarbonate bowl: 0 to 150 psig (0 to 10 bar).

Metal bowl: 0 to 200 psig (0 to 14 bar)

Filter Element: 0.3-micron rated or 0.01-micron rated borosilicate-glass-

fiber coalescing element.

Body: Aluminum.

Bowl: Polycarbonate or aluminum.

Seals: Nitrile.

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.



Online Version Rev. 10/02/17

E1.13

Port Sizes: 1/4, 3/8 & 1/2 - Flow to 85 scfm

| | | Model Numbers* | | | | | |
|-----------|--------------------------|----------------|---------------------|--------------|---------------------|--|--|
| Port Size | Filter Element Rating | Auto | matic Drain | Manual Drain | | | |
| | ridanig | Metal Bowl | Extended Metal Bowl | Metal Bowl | Extended Metal Bowl | | |
| 1/4 | 0.3-µm | 5032B2138 | 5032B2148 | 5032B2038 | 5032B2048 | | |
| 1/4 | 0.01-µm | 5032B2239 | 5032B2249 | 5032B2238 | 5032B2248 | | |
| 3/8 | 0.3-µm | 5032B3138 | 5032B3148 | 5032B3038 | 5032B3048 | | |
| 3/6 | 0.01-µm | 5032B3239 | 5032B3249 | 5032B3238 | 5032B3248 | | |
| 1/0 | 0.3-µm | 5032B4138 | 5032B4148 | 5032B4038 | 5032B4048 | | |
| 1/2 | 0.01-μm | 5032B4239 | 5032B4249 | 5032B4238 | 5032B4248 | | |

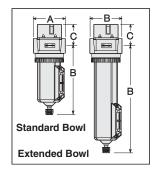


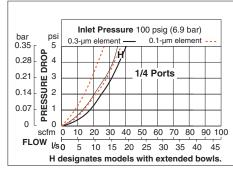
*NPT port threads. For BSPP threads add a "C" prefix to the model number e.g., C5032B2138. Models include 0.3-micron rated filter element.

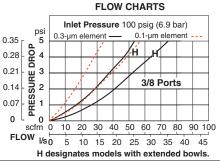
| Port Size Bowl | | Bowl | Dimensions inches (mm) | | | | Weight |
|----------------|----------|----------------|------------------------|-----------|----------|----------|-------------|
| Port Size | Type | Capacity | Α | В | С | Depth | lb (kg) |
| 1/4, 3/8, 1/2 | Standard | 6-oz (180-ml) | 2.7 (67) | 6.5 (165) | 1.8 (45) | 2.4 (60) | 1.75 (0.80) |
| 1/4, 3/8, 1/2 | Extended | 10-oz (300-ml) | 2.7 (67) | 9.5 (241) | 1.8 (45) | 2.4 (60) | 2.00 (0.91) |

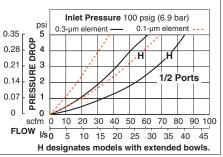


| REPLACEMENT FILTER ELEMENTS | | | | | | | |
|-----------------------------|--------------|--------------------------|-------------|--|--|--|--|
| Element Rating | Model Number | | | | | | |
| 0.3-µm | Standard | Borosilicate-glass-fiber | R-A60F-29 | | | | |
| 0.3-µm | Extended | Borosilicate-glass-fiber | R-A60F-32 | | | | |
| 0.01-µm | Standard | Borosilicate-glass-fiber | R-A60F-29E8 | | | | |
| 0.01-μm | Extended | Borosilicate-glass-fiber | R-A60F-32E8 | | | | |









Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.

Ambient/Media Temperature: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure:

Automatic drain model: Up to 150 psig (up to 10 bar). Manual drain model: 0 to 150 psig (0 to 10 bar).

Filter Element: 0.3-micron rated or 0.01-micron rated borosilicate-glass-fiber coalescing element.

Body: Zinc.

Bowl: Aluminum bowl with clear nylon sight glass, or extended aluminum

bowl with clear nylon sight glass.

Bowl Ring: Nylon. Seals: Nitrile.

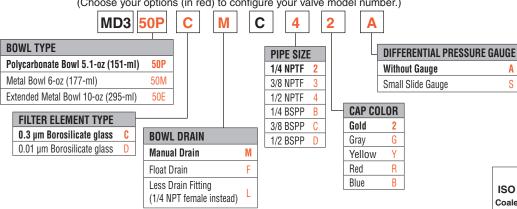


Automatic Drain Manual Drain

Port Sizes: 1/4, 3/8 & 1/2 - Flow to 125 scfm

HOW TO ORDER

(Choose your options (in red) to configure your valve model number.)

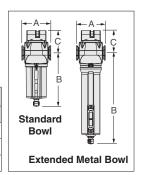




| Port Size | Bowl Type | | Weight | | | |
|-----------|-------------------|------------|--------------|-------------|-------------|-------------|
| | Bowl Type | Α | B* | С | Depth | lb (kg) |
| | Polycarbonate | 3.0 (76.2) | 5.54 (140.6) | 2.33 (59.3) | 2.51 (63.8) | 1.30 (0.59) |
| 1/4, 3/8, | Aluminum | 3.0 (76.2) | 6.42 (163.1) | 2.33 (59.3) | 2.76 (70.1) | 1.41 (0.64) |
| 1/2 | Extended Aluminum | 3.0 (76.2) | 9.51 (241.6) | 2.33 (59.3) | 2.76 (70.1) | 1.54 (0.70) |

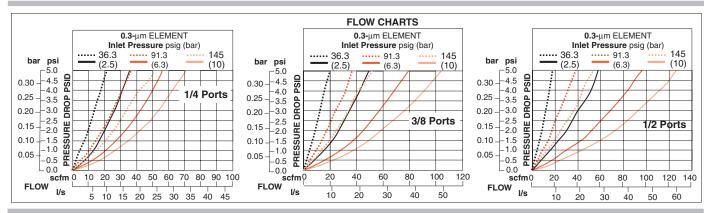
Bowl removal clearance: add 3.1 (79). Extended Bowl removal clearance: add 6.1 (155).

| REPLACEMENT FILTER ELEMENTS | | | | | | | | |
|-----------------------------|----------------|--------------|----------------|----------------|--------------|--|--|--|
| Element Rating | Bowl Type | Model Number | Element Rating | Bowl Type | Model Number | | | |
| | Polycarbonate | R-A60F-23 | | Polycarbonate | R-A60F-23E8 | | | |
| 0.3-µm | Metal | R-A60F-29 | 0.01-µm | Metal | R-A60F-29E8 | | | |
| | Extended Metal | R-A60F-32 | | Extended Metal | R-A60F-32E8 | | | |



ISO Symbols

Coalescing Filter



Options: External Bowl Drains, for additional information refer to page E6.7. Accessories ordered separately, refer to page E6.3-5.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber. Ambient/Media Temperature:

Polycarbonate bowl: 40° to 125°F (4° to 52°C).

Metal bowl: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure - Automatic drain model:

Polycarbonate bowl: 30 to 150 psig (2 to 10 bar). Metal bowl: 30 to 200 psig (2 to 14 bar).

Inlet Pressure - Manual drain model:

Polycarbonate bowl: 0 to 150 psig (0 to 10 bar).

Metal bowl: 0 to 250 psig (0 to 17 bar).

Filter Element: 0.3-micron rated or 0.01-micron rated borosilicate-

glass-fiber coalescing element.

Body: Die-cast zinc. Seals: Nitrile.

Bowl: Polycarbonate bowl with nylon shatterguard, or aluminum bowl with

clear nylon sight glass.

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.



Online Version Rev. 10/02/17

Port Sizes: 1/4, 3/8 & 1/2 - Flow to 100 scfm

| | | F114 | Model Numbers* | | | | | |
|-----------|-----------|-------------------|-----------------------|------------|-----------------------|------------|--|--|
| Port Size | Bowl Type | Filter Element | Automati | c Drain | Manual Drain | | | |
| | Rating | | Polycarbonate Bowl | Metal Bowl | Polycarbonate Bowl | Metal Bowl | | |
| 1/4 | Standard | 0.3-µm | 5031B2108 | 5032B2118 | 5031B2008 | 5032B2018 | | |
| 1/4 | | 0.01-µm | 5031B2209 | 5032B2219 | 5031B2208 | 5032B2218 | | |
| 0/0 | Chandand | 0.3-µm | 5031B3108 | 5032B3118 | 5031B3008 | 5032B3018 | | |
| 3/8 | Standard | 0.01-µm | 5031B3209 | 5032B3219 | 5031B3208 | 5032B3218 | | |
| | Chandand | 0.3-µm | 5031B4108 | 5032B4118 | 5031B4008 | 5032B4018 | | |
| 4/0 | Standard | 0.01-µm | 5031B4209 | 5032B4219 | 5031B4208 | 5032B4218 | | |
| 1/2 | Futon dod | 0.3-µm | 5031B4128 | 5032B4128 | 5031B4028 | 5032B4028 | | |
| | Extended | 0.01-µm | 5031B4229 | 5032B4229 | 5031B4228 | 5032B4228 | | |



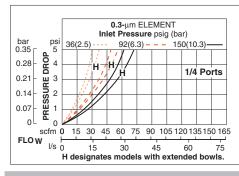


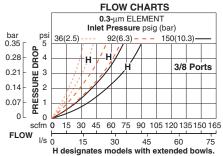
| Port Size | Bowl | Bowl Capacity | D | Dimensions inches (mm) | | | | |
|---------------|----------|----------------|----------|------------------------|----------|----------|-------------|--|
| Port Size | Туре | Bowl Capacity | Α | В | С | Depth | lb (kg) | |
| 1/4, 3/8, 1/2 | Standard | 8-oz (240-ml) | 3.5 (89) | 5.8 (146) | 1.8 (45) | 3.5 (89) | 2.13 (0.95) | |
| 1/4, 3/8, 1/2 | Extended | 20-oz (600-ml) | 3.5 (89) | 10.3 (260) | 1.8 (45) | 3.5 (89) | 3.25 (1.54) | |

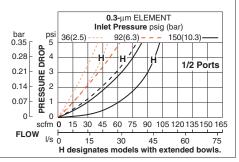
NPT port threads. For BSPP threads add a "C" prefix to the model number e.g., C5031B2108.

| REPLACEMENT FILTER ELEMENTS | | | | | | | |
|--|----------|--------------------------|---------------|--|--|--|--|
| Element Rating Bowl Type Element Material Model Number | | | | | | | |
| 0.3-µm | Standard | Borosilicate-glass-fiber | 947K77 | | | | |
| 0.3-µm | Extended | Borosilicate-glass-fiber | R-A103-160L | | | | |
| 0.01-µm | Standard | Borosilicate-glass-fiber | 948K77 | | | | |
| 0.01-μm | Extended | Borosilicate-glass-fiber | R-A103-160LE8 | | | | |









Small slide differential Pressure Gauge included.

Options: Differential Pressure Gauges: Large Dual Face, Large Dual Face with Reed Switch (NO-NC), refer to page E6.6.

Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.
Ambient/Media Temperature:

Polycarbonate bowl: 40° to 125°F (4° to 52°C). Metal bowl: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure - Automatic drain model:

Polycarbonate bowl: Up to 150 psig (up to 10 bar). Metal bowl: Up to 200 psig (up to 14 bar).

Inlet Pressure - Manual drain model:

Polycarbonate bowl: 0 to 150 psig (0 to 10 bar).

Metal bowl: 0 to 200 psig (0 to 14 bar).

Filter Element: 0.3-micron rated or 0.01-micron rated borosilicate-glass-fiber coalescing element.

Body: Zinc.

Bowl: Polycarbonate bowl with steel shatterguard, or zinc bowl with clear

nylon sight glass. **Bowl Ring:** Aluminum.

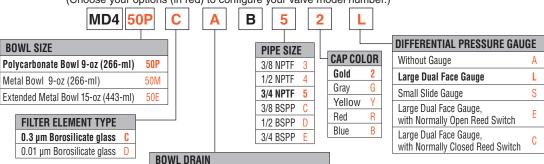
Seals: Nitrile.



Port Sizes: 3/8, 1/2 & 3/4 - Flow to 158 scfm

HOW TO ORDER

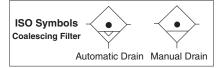
(Choose your options (in red) to configure your valve model number.)



Α

M





| Bowl | Poud Type | ı | Weight | | | |
|------------------|----------------------|--------------|------------|--------------|-------------|---------------|
| Type | Bowl Type | Α | B* | С | Depth | lb (kg) |
| 0/0 1/0 | Polycarbonate | 3.5 (88) | 7.7 (195) | 2.2 (55) | 2.9 (73) | 2.13 (0.97) |
| 3/8, 1/2, 3/4 | Aluminum | 3.5 (88) | 7.6 (193) | 2.2 (55) | 3.1 (79) | 2.13 (0.97) |
| 3/4 | Extended Aluminum | 3.5 (88) | 11.2 (284) | 2.2 (55) | 3.1 (79) | 2.31 (1.05) |
| * Bowl rei | moval clearance: add | 3.1 (79). Ex | tended Bow | /I removal c | learance: a | dd 6.1 (155). |

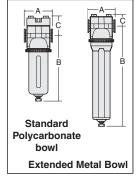
Less Drain Fitting - 1/4 NPT female instead

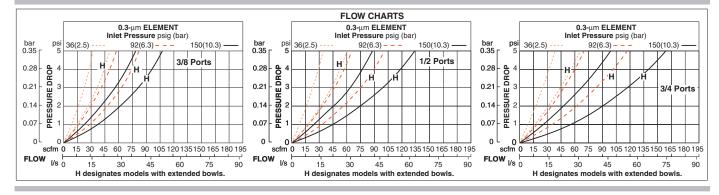
Automatic Drain

Internal Float Drain

Manual Drain

| REPLACEMENT FILTER ELEMENTS | | | | | | | | |
|-----------------------------|---------------------|--------------|----------------|--------------|--------------|--|--|--|
| Element Rating Bowl Type | | Model Number | Element Rating | Bowl Type | Model Number | | | |
| 0.2 | Standard R-A115-117 | | Standard | R-A115-117E8 | | | | |
| 0.3-µm | Extended | R-A115-118 | 0.01-µm | Extended | R-A115-118E8 | | | |





Options: Differential Pressure Gauges: Large Dual Face, Large Dual Face with Reed Switch (NO-NC), refer to page E6.6.

Options: External Bowl Drains, for additional information refer to page E6.7.

Accessories ordered separately, refer to page E6.3-5.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.
Ambient/Media Temperature:

Polycarbonate bowl: 40° to 125°F (4° to 52°C).

Metal bowl: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure - Automatic drain model:

Polycarbonate bowl: Up to 150 psig (up to 10 bar).

Metal bowl: Up to 200 psig (up to 14 bar).

Inlet Pressure - Manual drain model:

Polycarbonate bowl: 0 to 150 psig (0 to 10 bar).

Metal bowl: 0 to 200 psig (0 to 14 bar).

Filter Element: 0.3-micron rated or 0.01-micron rated borosilicate-glass-

fiber coalescing element. **Body:** Die-cast zinc.

Bowl: Polycarbonate bowl with steel shatterguard, or aluminum bowl with

clear nylon sight glass. **Bowl Ring:** Nylon. **Seals:** Nitrile.

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.



Online Version Rev. 10/02/17

Port Sizes: 3/4 & 1 - Flow to 220 scfm

| Model Numbers* | | | | | |
|----------------|--------------------|------------|--------------------|------------|--|
| Port Size | Automatic [| Drain | Manual Drain | | |
| | Polycarbonate Bowl | Metal Bowl | Polycarbonate Bowl | Metal Bowl | |
| 3/4 | 5X00B5099 | 5X00B5076 | 5031B5008 | 5032B5018 | |
| 1 | 5X00B6027 | 5X00B6054 | 5031C6008 | 5032B6117 | |

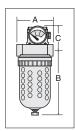
^{*} NPT port threads. For BSPP threads add a "C" prefix to the model number e.g., C5X00B5099. Models include 0.3-micron rated filter element.

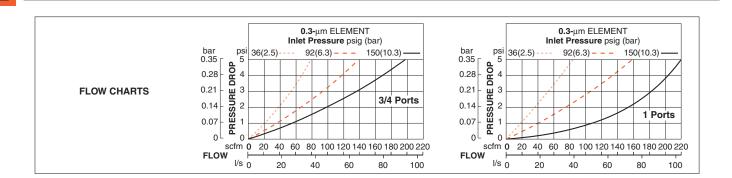


| Port | Bowl Type | Bowl Capacity | | Weight | | | |
|--------|---------------|----------------|-----------|-----------|----------|-----------|-------------|
| Size | Zom typo | Dom Capacity | Α | B* | С | Depth | lb (kg) |
| 3/4, 1 | Polycarbonate | 16-oz (480-ml) | 4.5 (114) | 8.0 (203) | 3.1 (78) | 4.5 (114) | 2.38 (1.09) |
| 3/4, 1 | Aluminum | 16-oz (480-ml) | 4.5 (114) | 8.3 (210) | 3.1 (78) | 4.5 (114) | 3.20 (1.46) |



| REPLACEMENT FILTER ELEMENTS | | | | | | |
|-----------------------------|--------------------------|--------------|--|--|--|--|
| Element Rating | Element Material | Model Number | | | | |
| 0.3-µm | Borosilicate-glass-fiber | 949K77 | | | | |
| 0.01-µm | Borosilicate-glass-fiber | R-A109-106E8 | | | | |





Large dual face differential Pressure Gauge included.

Options: Differential Pressure Gauges: Small Slide, Large Dual Face with Reed Switch (NO-NC), refer to page E6.6.

Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.

E1.18

Ambient/Media Temperature:

Polycarbonate bowl: 40° to 125°F (4° to 52°C). Metal bowl: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure - Automatic drain model:

Polycarbonate bowl: Up to 150 psig (up to 10 bar). Metal bowl: Up to 200 psig (up to 14 bar).

Inlet Pressure - Manual drain model:

Polycarbonate bowl: 0 to 150 psig (0 to 10 bar).

Metal bowl: 0 to 200 psig (0 to 14 bar).

Filter Element: 0.3-micron rated or 0.01-micron rated borosilicate-glass-

fiber coalescing element.

Body: Aluminum.

Bowl: Polycarbonate bowl with steel shatterguard, or aluminum bowl with

clear nylon sight glass. **Bowl Ring:** Aluminum.

Seals: Nitrile.

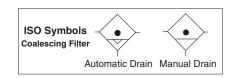


Port Sizes: 3/4 & 1 - Flow to 295 scfm

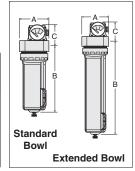
| | Model Numbers* | | | | | | |
|--------------|----------------|---------------------|--------------|---------------------|--|--|--|
| Port Size Au | | omatic Drain | Manual Drain | | | | |
| | Metal Bowl | Extended Metal Bowl | Metal Bowl | Extended Metal Bowl | | | |
| 3/4 | 5X00B5086 | 5X00B5087 | 5032B5019 | 5032B5029 | | | |
| 1 | 5X00B6064 | 5X00B6065 | 5032B6019 | 5032C6028 | | | |

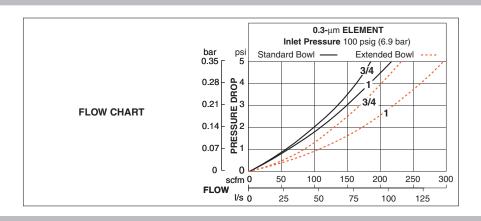
^{*} NPT port threads. For BSPP threads add a "C" prefix to the model number e.g., C5X00B5086. Models include 0.3-micron rated filter element.

| Port | Bowl | Bowl Capacity | | Dimensions inches (mm) | | | |
|--------|----------|-----------------|-----------|------------------------|----------|-----------|-------------|
| Size | Туре | Dom Supusity | Α | В | С | Depth | lb (kg) |
| 3/4, 1 | Standard | 35-oz (1050-ml) | 4.5 (114) | 10.1 (257) | 3.3 (83) | 4.2 (106) | 3.50 (1.59) |
| 3/4, 1 | Extended | 62-oz (1860-ml) | 4.5 (114) | 15.7 (399) | 3.3 (83) | 4.2 (106) | 4.25 (1.91) |



| REPLACEMENT FILTER ELEMENTS | | | | | | |
|---|----------|--------------------------|--------------|--|--|--|
| Element Rating Bowl Type Element Material | | | Model Number | | | |
| 0.2 | Standard | Borosilicate-glass-fiber | R-A114-112 | | | |
| 0.3-μm | Extended | Borosilicate-glass-fiber | R-A114-113 | | | |
| 0.01 | Standard | Borosilicate-glass-fiber | R-A114-112E8 | | | |
| 0.01-µm | Extended | Borosilicate-glass-fiber | R-A114-113E8 | | | |





Large dual face differential Pressure Gauge included.

Options: Differential Pressure Gauges: Small Slide, Large Dual Face with Reed Switch (NO-NC), refer to page E6.6.

Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.

Ambient/Media Temperature: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure:

Automatic drain model: Up to 200 psig (up to 14 bar). Manual drain model: 0 to 200 psig (0 to 14 bar).

Filter Element: 0.3-micron rated or 0.01-micron rated borosilicate-glass-

fiber coalescing element.

Body: Aluminum.

Bowl: Aluminum bowl, or extended aluminum bowl.

Bowl Ring: Aluminum.

Seals: Nitrile.

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.



Online Version Rev. 10/02/17

E1.19

Port Sizes: 11/4 & 11/2 - Flow to 450 scfm

| | | Model N | umbers* | | |
|-----------|------------|---------------------|--------------|---------------------|--|
| Port Size | Auto | matic Drain | Manual Drain | | |
| | Metal Bowl | Extended Metal Bowl | Metal Bowl | Extended Metal Bowl | |
| 11/4 | 5X00B7034 | 5X00B7036 | 5032B7019 | 5032B7029 | |
| 11/2 | 5X00B8035 | 5X00B8036 | 5032B8019 | 5032B8029 | |

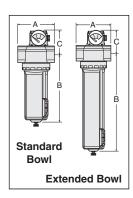
^{*} NPT port threads. For BSPP threads add a "C" prefix to the model number e.g., C5X00B7034. Models include 0.3-micron rated filter element.

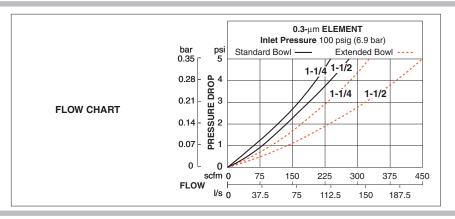
| Port | Poud Type | Bowl Capacity | Dimensions inches (mm) | | | | Weight | |
|------------|-----------|-----------------|------------------------|------------|----------|-----------|-------------|--|
| Size | Bowl Type | Bowl Capacity | Α | В | С | Depth | lb (kg) | |
| 41/ 41/ | Standard | 35-oz (1050-ml) | 5.5 (140) | 10.6 (270) | 3.7 (94) | 4.2 (106) | 4.31 (1.94) | |
| 11/4, 11/2 | Extended | 62-oz (1860-ml) | 5.5 (140) | 16.2 (412) | 3.7 (94) | 4.2 (106) | , , | |





| REPLACEMENT FILTER ELEMENTS | | | | | | |
|-----------------------------|-----------|--------------------------|--------------|--|--|--|
| Element Rating | Bowl Type | Element Material | Model Number | | | |
| 0.2 | Standard | Borosilicate-glass-fiber | R-A114-112 | | | |
| 0.3-μm | Extended | Borosilicate-glass-fiber | R-A114-113 | | | |
| 0.01 | Standard | Borosilicate-glass-fiber | R-A114-112E8 | | | |
| 0.01-µm | Extended | Borosilicate-glass-fiber | R-A114-113E8 | | | |





Large dual face differential Pressure Gauge included.

Options: Differential Pressure Gauges: Small Slide, Large Dual Face with Reed Switch (NO-NC), refer to page E6.6.

Bowl Drain - Internal Float Drain (on polycarbonate bowl only), consult ROSS.

Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.

Ambient/Media Temperature: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure:

E1.20

Automatic drain model: Up to 200 psig (up to 14 bar). Manual drain model: 0 to 200 psig (0 to 14 bar).

Filter Element: 0.3-micron rated or 0.01-micron rated borosilicate-glass-

fiber coalescing element.

Body: Aluminum.

Bowl: Aluminum bowl, or extended aluminum bowl.

Bowl Ring: Aluminum.

Seals: Nitrile.



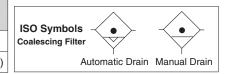
Port Sizes: 11/4 & 11/2 - Flow to 465 scfm

| _ | | Model Numbersl* | |
|--------------|----------------------|-----------------|---------------------|
| Port Size | Internal Float Drain | n Manual Drain | |
| | Metal Bowl | Metal Bowl | Extended Metal Bowl |
| 11⁄4 | 5X00B7019 | 5032B7018 | 5032B7028 |
| 11/2 | 5X00B8008 | 5032B8018 | 5032B8028 |

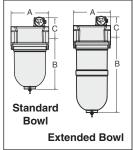
* NPT port threads. For BSPP threads add a "C" prefix to the model number e.g., C5X00B7019. Models include 0.3-micron rated filter element.

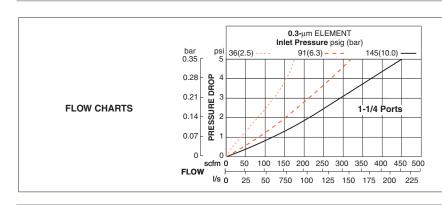


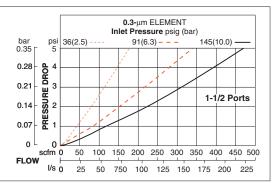
| Port | Bowl | Bowl Capacity | | Dimensions | inches (mm) | | Weight |
|------------|----------|------------------|-------------|--------------|-------------|-------------|-------------|
| Size | Туре | Bowl Capacity | Α | В | С | Depth | lb (kg) |
| 11/4, 11/2 | Standard | 123-oz (3700-ml) | 8.1 (204.7) | 12.0 (305.1) | 4.6 (117.4) | 8.0 (203.2) | 17.0 (7.8) |
| 11/4, 11/2 | Extended | 233-oz (7000-ml) | 8.1 (204.7) | 18.3 (465.1) | 4.6 (117.4) | 8.0 (203.2) | 26.0 (11.8) |



| REPLACEMENT FILTER ELEMENTS | | | | | |
|-----------------------------|--------------|--------------------------|--------------|--|--|
| Element Rating | Model Number | | | | |
| 0.0 | Standard | Borosilicate-glass-fiber | 952K77 | | |
| 0.3-μm | Extended | Borosilicate-glass-fiber | 953K77 | | |
| 0.04 | Standard | Borosilicate-glass-fiber | R-A106-24E8 | | |
| 0.01-µm | Extended | Borosilicate-glass-fiber | R-A106-24LE8 | | |







Large dual face differential Pressure Gauge included.

Options: Differential Pressure Gauges: Small Slide, Large Dual Face with Reed Switch (NO-NC), refer to page E6.6.

Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.

Ambient/Media Temperature: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure:

Internal float drain model: 30 to 200 psig (2 to 14 bar). Manual drain model: 0 to 200 psig (0 to 14 bar).

Filter Element: 0.3-micron rated borosilicate-glass-fiber coalescing

element; optional 0.01-micron rated element.

Body: Aluminum.

Bowl: Aluminum bowl, or extended aluminum bowl.

V-Band: Stainless steel.

Seals: Nitrile.

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.



Online Version Rev. 10/02/17

E1.21

Port Sizes: 2 - Flow to 840 scfm

| | Model N | umbers* |
|-----------|----------------------|--------------|
| Port Size | Internal Float Drain | Manual Drain |
| | Metal Bowl | Metal Bowl |
| 2 | 5X00B9009 | 5032B9018 |

* NPT port threads. For BSPP threads add a "C" prefix to the model number e.g., C5X00B9009.

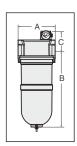
Models include 0.3-micron rated filter element.

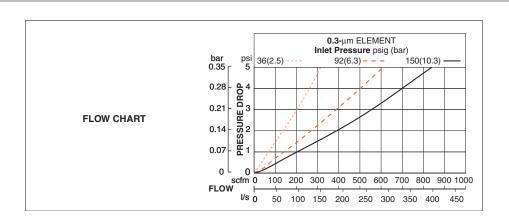


| ISO Symbols Coalescing Filter | • | • |
|----------------------------------|----------------|--------------|
| Au | itomatic Drain | Manual Drain |

| Port | Bowl | Bowl Capacity | | Weight | | | |
|------|----------|------------------|-------------|--------------|-------------|-------------|-------------|
| Size | Type | 2011 0 4 4 4 4 4 | Α | В | С | Depth | lb (kg) |
| 2 | Aluminum | 233-oz (7000-ml) | 8.1 (204.7) | 18.3 (465.1) | 4.6 (117.4) | 8.0 (203.2) | 26.0 (11.8) |

| REPLACEMENT FILTER ELEMENTS | | | | |
|-----------------------------|--------------------------|--------------|--|--|
| Element Rating | Element Material | Model Number | | |
| 0.3-μm | Borosilicate-glass-fiber | 953K77 | | |
| 0.01-µm | Borosilicate-glass-fiber | R-A106-24LE8 | | |





Large dual face differential Pressure Gauge included.

Options: Differential Pressure Gauges: Small Slide, Large Dual Face with Reed Switch (NO-NC), refer to page E6.6.

Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.

Ambient/Media Temperature: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure:

Internal float drain model: 30 to 200 psig (2 to 14 bar). Manual drain model: 0 to 200 psig (0 to 14 bar).

Filter Element: 0.3-micron rated borosilicate-glass-fiber coalescing

element; optional 0.01-micron rated element.

Body: Aluminum.
Bowl: Aluminum.
V-Band: Stainless steel.

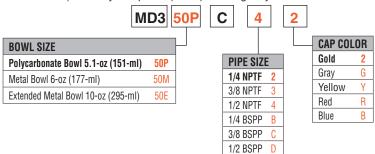
Seals: Nitrile.



Port Sizes: 1/4, 3/8 & 1/2 - Flow to 125 scfm

HOW TO ORDER

(Choose your options (in red) to configure your valve model number.)





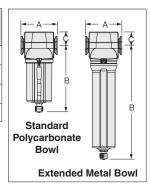


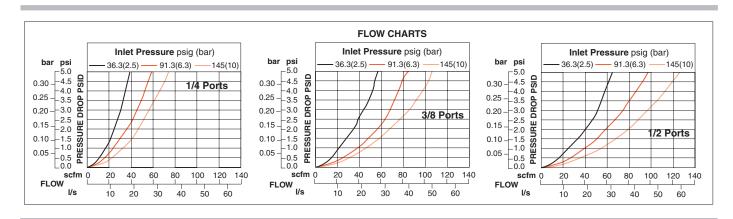
| ls Iter | |
|------------|--|
| in | |

| Bowl | David Town | Dimensions inches (mm) | | | | Weight | |
|------------------|---|------------------------|--------------|-------------|-------------|-------------|--|
| Size | Bowl Type | Α | B* | С | Depth | lb (kg) | |
| | Polycarbonate | 3.0 (76.2) | 5.54 (140.6) | 1.12 (28.3) | 2.51 (63.8) | 1.29 (0.59) | |
| 1/4, 3/8, 1/2 | Aluminum | 3.0 (76.2) | 6.42 (163.1) | 1.12 (28.3) | 2.76 (70.1) | 1.41 (0.64) | |
| 1/2 | Extended Aluminum | 3.0 (76.2) | 9.51 (241.6) | 1.12 (28.3) | 2.76 (70.1) | 1.54 (0.70) | |
| * Rowl ror | * Bowl removal clearance: add 3.1 (70) Extended Bowl removal clearance: add 6.1 (155) | | | | | | |

Bowl removal clearance: add 3.1 (79). Extended Bowl removal clearance: add 6.1 (155).

| REPLACEMENT FILTER ELEMENTS | | |
|-----------------------------|--------------|--|
| Bowl Type | Model Number | |
| Polycarbonate | R-A60F-29E9 | |
| Metal | R-A60F-29E9 | |
| Extended Metal | R-A60F-32E9 | |





Accessories ordered separately, refer to page E6.3-5.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.

Ambient/Media Temperature:

With polycarbonate bowl: 40° to 125°F (4° to 52°C).

With metal bowl: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure:

With polycarbonate bowl: 0 to 150 psig (0 to 10 bar). With metal bowl: 0 to 250 psig (0 to 17 bar).

Bowl Drain: Manual drain.

Filter Element: Activated carbon with urethane seals.

Body: Die-cast zinc.

Bowl: Polycarbonate with nylon shatterguard, aluminum bowl with clear nylon sight glass, or extended aluminum bowl with clear nylon sight glass.

Seals: Nitrile.

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.



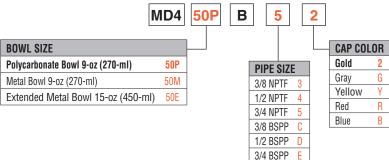
Online Version Rev. 10/02/17

E1.23

Port Sizes: 3/8, 1/2 & 3/4 - Flow to 165 scfm

HOW TO ORDER

(Choose your options (in red) to configure your valve model number.)

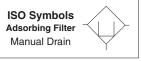




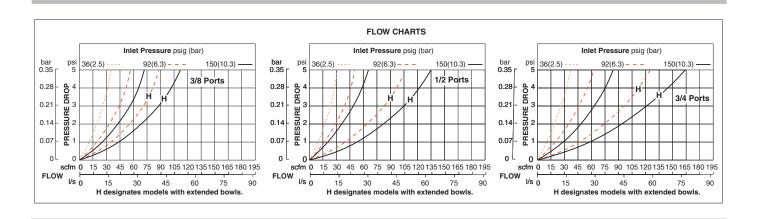
| Bowl | Poud Type | Dimensions inches (mm) | | | | Weight |
|------------------|-------------------|------------------------|------------|----------|----------|-------------|
| Size | Bowl Type | Α | B* | С | Depth | lb (kg) |
| | Polycarbonate | 3.5 (88) | 7.7 (195) | 1.1 (28) | 2.9 (73) | 2.13 (0.97) |
| 3/8, 1/2, 3/4 | Aluminum | 3.5 (88) | 7.6 (193) | 1.1 (28) | 3.1 (79) | 2.13 (0.97) |
| 3/4 | Extended Aluminum | 3.5 (88) | 11.2 (284) | 1.1 (28) | 3.1 (79) | 2.31 (1.05) |

* Bowl removal clearance: add 3.1 (79). Extended Bowl removal clearance: add 6.1 (155).

| A C | A C |
|-----------------------------------|------------|
| Standard Polycarbonate Bowl | |
| Extended | Metal Bowl |



| REPLACEMENT FILTER CARTRIDGE | | | | |
|------------------------------|--------------|--------------|--|--|
| Filter Rating | Model Number | | | |
| 0.01-µm | Standard | R-A115-117E9 | | |
| | Extended | R-A115-118E9 | | |



Accessories ordered separately, refer to page E6.3-5.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Fiber.

Ambient/Media Temperature:

With polycarbonate bowl: 40° to 125°F (4° to 52°C). With metal bowl: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure:

With polycarbonate bowl: 0 to 150 psig (0 to 10 bar). With metal bowl: 0 to 200 psig (0 to 14 bar).

Bowl Drain: Manual.

Filter Cartridge: Activated carbon with urethane seals.

Body: Zinc.

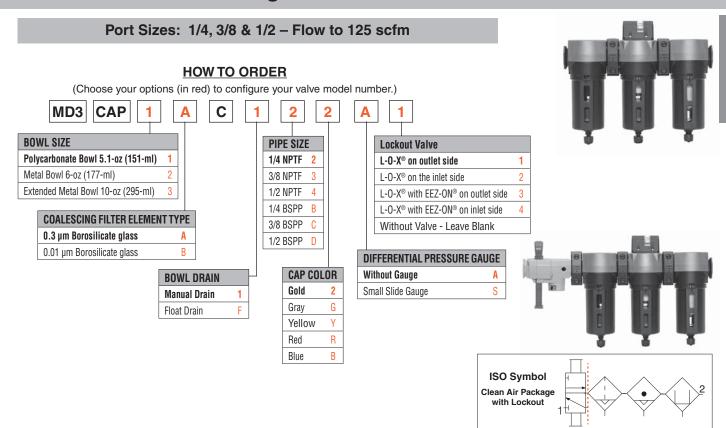
Bowl: Polycarbonate bowl with steel shatterguard, aluminum bowl, or

Online Version

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extended aluminum bowl. **Bowl Ring:** Nylon.

Seals: Nitrile.



| REPLACEMENT COALESCING ELEMENTS | | | | | |
|---------------------------------|------------------------------------|-------------|--|--|--|
| Element Rating | Element Rating Bowl Type Model Nur | | | | |
| | Polycarbonate | R-A60F-23 | | | |
| 0.3-µm | Metal | R-A60F-29 | | | |
| | Extended Metal | R-A60F-32 | | | |
| | Polycarbonate | R-A60F-23E8 | | | |
| 0.01-µm | Metal | R-A60F-29E8 | | | |
| | Extended Metal | R-A60F-32E8 | | | |

| REPLACEMENT ADSORBING ELEMENTS | | |
|--------------------------------|--------------|--|
| Bowl Type | Model Number | |
| Polycarbonate | R-A60F-29E9 | |
| Metal | R-A60F-29E9 | |
| Extended Metal | R-A60F-29 | |

| REPLACEMENT FILTER ELEMENTS | | | | |
|-----------------------------|---------------------|--------------|--|--|
| Element Rating | Element Material | Model Number | | |
| 5-µm | Polyethylene | R-A60F-03PE5 | | |

Accessories ordered separately, refer to page E6.3-5.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Filter, Coalescing Filter - Fiber.

Ambient/Media Temperature:

With polycarbonate bowl: 40° to 125°F (4° to 52°C).

With metal bowl: 40° to 175° F (4° to 80° C).

With metal bowl & float drain: 40° to 175°F (4° to 80°C).

Inlet Pressure - Automatic drain model:

With polycarbonate bowl: 30 to 150 psig (2 to 10 bar). With metal bowl: 30 to 200 psig (2 to 14 bar).

Inlet Pressure - Manual drain model:

With polycarbonate bowl: 0 to 150 psig (0 to 10 bar).

With metal bowl: 0 to 250 psig (0 to 17 bar). Filter Element: 5-µm-rated polyethylene.

Coalescing Filter Element: 0.3-micron rated or 0.01-micron rated borosilicate-glass-fiber.

Adsorbing Filter Element: Activated carbon with urethane seals. Bowl Drain:

Filter and Coalescing Filter: Internal float drain or manual drain. Adsorber Filter: Manual drain only.

Body: Die-cast zinc.

Bowl: Polycarbonate bowl with nylon shatterguard; aluminum bowl with clear nylon sight glass; extended aluminum bowl with clear nylon sight glass and higher flow filter element (for coalescing and adsorber filter only).

Seals: Nitrile.

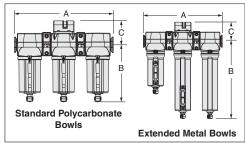
IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.



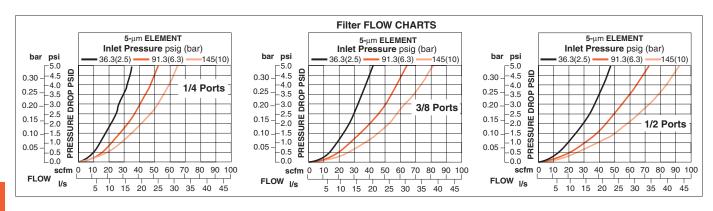
Online Version Rev. 10/02/17

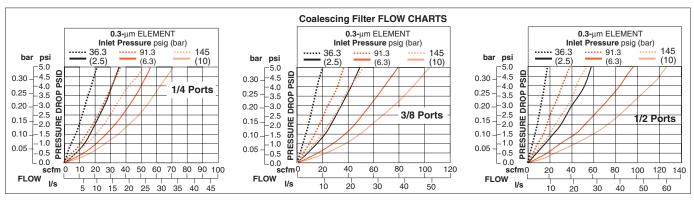
| Bowl | Bowl Type | | Dimensions inches (mm) | | | | |
|------------------|-------------------|--------------|------------------------|-------------|-------------|-----------|--|
| Size | Bowl Type | A* | B* | С | Depth | lb (kg) | |
| | Polycarbonate | 9.58 (243.3) | 5.54 (140.6) | 2.38 (59.3) | 2.51 (63.8) | 4.3 (2.0) | |
| 1/4, 3/8, 1/2 | Aluminum | 9.58 (243.3) | 6.42 (163.1) | 2.38 (59.3) | 2.76 (70.1) | 4.6 (2.1) | |
| 1/2 | Extended Aluminum | 9.58 (243.3) | 9.51 (241.6) | 2.38 (59.3) | 2.76 (70.1) | 4.9 (2.2) | |

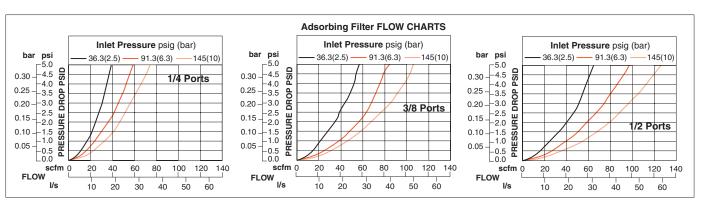
^{*} Lockout: With the lockout valve, add 2.3 (58) to dimension A. Bowl removal clearance: add 3.1 (79). Extended Bowl removal clearance: add 6.1 (155).



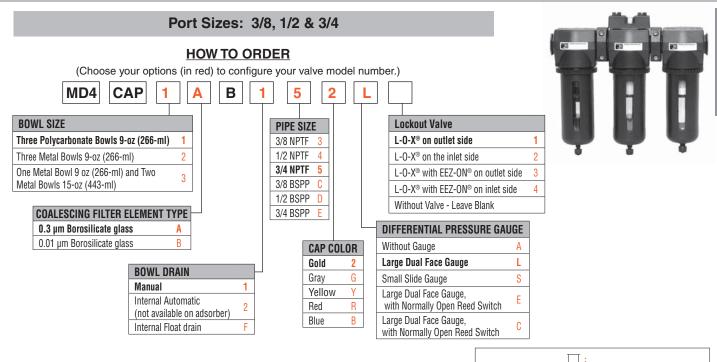
AIR FLOW and CONSTRUCTION DATA











| REPLACEMENT FILTER ELEMENTS | | | | | |
|-----------------------------|-----------------------------|-----------|--------------------------|---------------|--|
| Filter Type | Element Rating | Bowl Type | Element Material | Model Number | |
| Filter | 5-μm | Standard | Polyethylene | R-A115-106PE5 | |
| Coalescing | 0.3-µm | Standard | Borosilicate-glass-fiber | R-A115-117 | |
| Coalescing | 0.3-µm | Extended | Borosilicate-glass-fiber | R-A115-118 | |
| Coalescing | 0.01-μm | Standard | Borosilicate-glass-fiber | R-A115-117E8 | |
| Coalescing | 0.01-µm | Extended | Borosilicate-glass-fiber | R-A115-118E8 | |
| Adsorbing | Standard Cartridge | Standard | Activated Carbon | R-A115-117E9 | |
| Adsorbing | Extended Standard Cartridge | Extended | Activated Carbon | R-A115-118E9 | |

Accessories ordered separately, refer to page E6.3-5.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Filter, Coalescing Filter - Fiber.

With polycarbonate bowl: 40° to 125°F (4° to 52°C).

With metal bowl: 40° to 175°F (4° to 80°C).

Fluid Media: Compressed air.

Inlet Pressure - Automatic drain model:

With polycarbonate bowl: 15 to 150 psig (1 to 10 bar). With metal bowl: 15 to 200 psig (1 to 14 bar).

Inlet Pressure - Internal float drain model:

With polycarbonate bowl: 30 to 150 psig (2 to 10 bar). With metal bowl: 30 to 200 psig (2 to 14 bar).

Inlet Pressure - Manual drain model:

With polycarbonate bowl: 0 to 150 psig (0 to 10 bar). With metal bowl: 0 to 200 psig (0 to 14 bar).

Filter Drains: Internal automatic drains for general purpose and coalescing filters; manual drain for adsorbing filter.

ISO Symbol Clean Air Package with Lockout

Optional internal float drain on polycarbonate bowl only, consult ROSS.

Filter Elements:

General Purpose: 5-micron rated polyethylene.

Coalescing: 0.3-micron rated or 0.01-micron rated borosilicate-glass-fiber; element.

Adsorbing: Activated carbon with urethane seals.

Bowls: Polycarbonate bowls with steel shatterguards; aluminum bowl with clear nylon sight glasses on general purpose and coalescing units, or extended aluminum bowls for coalescing and adsorbing filters.

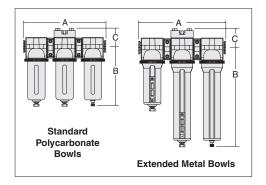
Seals: Nitrile.

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.

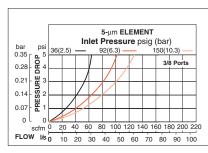


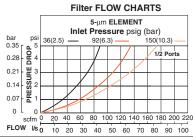
Online Version Rev. 10/02/17 * Lockout: With the lockout valve, add 2.3 (58) to dimension A.

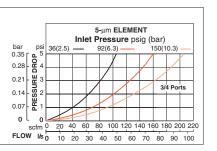
Bowl removal clearance: add 3.1 (79). Extended Bowl removal clearance: add 6.1 (155).

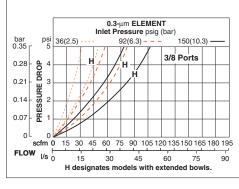


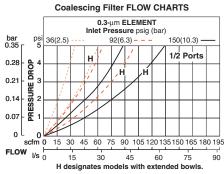
AIR FLOW and CONSTRUCTION DATA

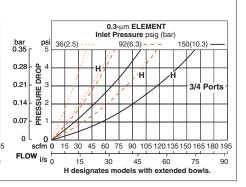


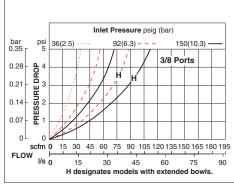


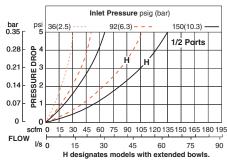




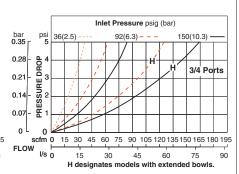








Adsorbing FLOW CHARTS



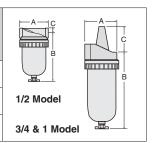
Inline Silencers/Reclassifiers

Port Sizes: 1/2, 3/4 & 1

| Port Size | Bowl Type | Model Numbers* |
|-----------|---------------|----------------|
| 1/2 | Polycarbonate | 5055B4009 |
| 3/4 | Polycarbonate | 5055B5009 |
| 1 | Polycarbonate | 5055B6009 |

* NPT port threads. For BSPP threads add a "C" prefix to the model number e.g., C5055B4009.

| Port | Port Dimensions inches (mm) | | | | |
|------|-----------------------------|-----------|----------|-----------|------------|
| Size | Α | В | С | Depth | lb (kg) |
| 1/2 | 3.5 (89) | 5.5 (140) | 0.7 (18) | 3.5 (89) | 1.3 (0.59) |
| 3/4 | 4.2 (107) | 8.4 (213) | 2.7 (69) | 4.2 107) | 2.8(1.27) |
| 1 | 4.2 (107) | 8.4 (213) | 2.7 (69) | 4.2 (107) | 2.8 (1.27) |



| REPLACEMENT FILTER ELEMENTS | | | | |
|--|--------|-----------------|--------|--|
| Port Size Element Rating Element Material Model Numb | | | | |
| 1/2 | 20-μm | Sintered Bronze | 940K77 | |
| 3/4, 1 | 100-μm | Sintered Bronze | 981K77 | |



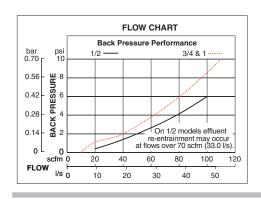


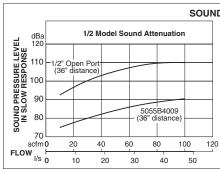
3/4 & 1 Model

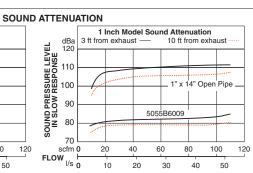
SOUND ATTENUATION DATA

Constant-flow tests - conducted in a 14' x 22' room with a 14' ceiling. Sound pressure levels - recorded using a B & K precision impulse sound meter (model 22045), a 1-inch

microphone (DB0375), a flexible extension rod (UA0196), and a random incidence corrector (UA0055). Test system was mounted on the 14-foot wall with exhaust port 4 feet from the 14-foot wall.







Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Construction: Sintered. Inlet Pressure: 5 to 150 psig (0.3 to 10 bar).

Ambient/Media Temperature: 40° to 125°F (4° to 51°C). Filter Element: Sintered bronze.

Fluid Media: Compressed air. Bowl: Polycarbonate.

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.



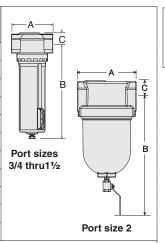
Online Version Rev. 10/02/17

Port Sizes: 3/4, 1, 11/4, 11/2 & 2

| | | Model Numbers* | | | | | |
|---------|------------------|--------------------------|---------------------|-------------------|-------------------|-------------------|--------------------|
| Port | with Drain-Cock | | | with Ball Valve | | | |
| Size | | Bowl Capacity ounce (ml) | | | | | |
| | 35 (1035) | 62 (1833) | 35 (1035) | 62 (1833) | 120 (3548) | 230 (6801) | 340 (10055) |
| 3/4 | RC012-01 | RC012-01-62 | RC012-01-BV | RC012-01-62-BV | _ | _ | _ |
| 1 | RC013-01 | RC013-01-62 | RC013-01-BV | RC013-01-62-BV | _ | _ | _ |
| 11/4 | RC014-01 | RC014-01-62 | RC014-01-BV | RC014-01-62-BV | _ | _ | _ |
| 11/2 | RC015-01 | RC015-01-62 | RC015-01-BV | RC015-01-62-BV | _ | _ | _ |
| 2 | | - | | RC016-01-120 | RC016-01-120 | RC016-01-225 | RC016-01 |
| * NPT r | ort threads F | or BSPP thread | ls add a "D" suffix | to the model numb | er e.a. BC012-0 | 1D | |



| Port Bowl Capacity Dimensions inches (mm) | | | | | | Weight |
|---|-------------|-----------|------------|-----------|-----------|--------------|
| Size | ounce (ml) | Α | B* | С | Depth | lb (kg) |
| 0/4 | 35 (1035) | 4.5 (114) | 10.6 (269) | 0.81 (21) | 4.2 (106) | 4.25 (1.93) |
| 3/4 | 62 (1833) | 4.5 (114) | 16.2 (412) | 0.81 (21) | 4.2 (106) | 5.00 (2.25) |
| 4 | 35 (1035) | 5.5 (140) | 10.6 (269) | 1.4 (36) | 4.2 (106) | 4.25 (1.93) |
| 1 | 62 (1833) | 5.5 (140) | 16.2 (412) | 1.4 (36) | 4.2 (106) | 5.00 (2.25) |
| 41/ | 35 (1035) | 5.5 (140) | 11.2 (285) | 1.4 (36) | 4.2 (106) | 4.50 (2.04) |
| 11/4 | 62 (1833) | 5.5 (140) | 16.7 (424) | 1.4 (36) | 4.2 (106) | 5.81 (2.37) |
| 41/ | 35 (1035) | 5.5 (140) | 11.2 (285) | 1.4 (36) | 4.2 (106) | 4.50 (2.04) |
| 1½ | 62 (1833) | 5.5 (140) | 16.7 (424) | 1.4 (36) | 4.2 (106) | 5.81 (2.37) |
| | 120 (3548) | 8.1 (206) | 15.5 (394) | 4.6 (117) | 8.0 (203) | 17.00 (7.72) |
| 2 | 230 (6801) | 8.1 (206) | 22.5 (572) | 4.6 (117) | 8.0 (203) | 21.9 (9.82) |
| | 340 (10055) | 8.1 (206) | 29.5 (749) | 4.6 (117) | 8.0 (203) | 26.8 (11.92) |



ISO Symbols
Filter
Drip Leg Drain

* Add 3.5 inches (89 mm) to Dimension "B" and 0.29 lb (0.13 kg) to weight for units with Ball valves (BV option).

The ROSS Drip Leg Drain replaces conventional welded drip legs through improvements in both performance and serviceability resulting in increased machine productivity.

The ROSS Drip Leg Drain has a baffling device that increases the contamination removal efficiency by requiring the air to make more direction changes than a standard drip leg drain. This efficiency gain puts less contamination at the point of filtration, allowing the filter to function longer before maintenance is necessary.

Accessories ordered separately, refer to page E6.3-4.

STANDARD SPECIFICATIONS (for products on this page):

Ambient/Media Temperature: 40° to 175° F (4° to 79°C).

Fluid Media: Compressed air.

Inlet Pressure: 15 to 200 psig (1 to 14 bar). **Filter Drain:** Drain-cock or Ball valve.

Heads: Aluminum.
Bowl Rings: Aluminum.

Seals: Nitrite.







ROSS CONTROLS®

FILTER, REGULATOR, AND LUBRICATOR ACCESSORIES



| CONTENT | Page |
|--|------|
| Mounting Accessories | E6.3 |
| Modular Assembly Components | E6.4 |
| Clamp, Brackets, End Ports & Port Blocks | E6.5 |
| Pressure Gauges | E6.6 |
| External Drains, Silencers | E6.7 |

E6

Mounting Screws for BANTAM Models

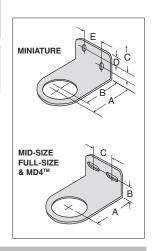
| Usage Models | Kit Number |
|--------------|------------|
| BANTAM | 859K77 |

BANTAM models mounts with long screws that extend through end plates.

Mounting Brackets for Regulators and Integrated Filter/Regulators

Regulators and integrated filter/regulators can be mounted to a surface with a bracket that attaches to the regulator. Brackets and mounting panel nuts can be ordered separately or in a kit which includes both bracket and mounting panel nut.

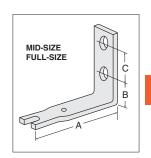
| Usage Model Number | | Dimensions inches (mm) | | | | | | | |
|--------------------|-----------|------------------------|-----------|------------|------------|-----------|----------|-----------|---------------------------------|
| Models | Kit | Bracket | Panel Nut | Α | В | С | D | E | Panel Mounting Hole Diameter |
| MINIATURE | 873K77 | 872K77 | 874K77 | 1.375 (35) | 1.125 (29) | 0.31 (8) | 0.31 (8) | 0.69 (17) | 1.19 (30) |
| MID-SIZE | 876K77 | 875K77 | 877K77 | 2.38 (60) | 1.00 (25) | 1.50 (38) | - | - | 1.56 (40) |
| MD3™ | R-A127-11 | _ | R-127-11 | 2.38 (60) | 1.00 (25) | 1.50 (38) | - | | 2.06 (52) |
| FULL-SIZE, MD4™ | 879K77 | 878K77 | 880K77 | 2.38 (60) | 1.00 (25) | 1.50 (38) | _ | _ | 2.06 (52) |



Modular Mounting Brackets for Filters, Regulators, Lubricators, FRL's, or Clean Air Packages

Two L-shaped metal brackets as shown at the right can be used for wall mounting of modular FRLs or Clean Air Packages. A single bracket can be used to mount individual filters or lubricators. Kits include two brackets and four screws for attaching the brackets to the modules.

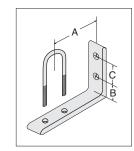
| Usage Models | Kit Number | Dimensions inches (mm) | | | |
|----------------------|--------------|------------------------|-----------|-----------|-----------|
| Usage Models | Kit Nullibei | Α | В | С | D |
| MID-SIZE & FULL-SIZE | 915K77 | 3.0 (76) | 0.88 (22) | 1.00 (25) | 1.20 (31) |



FRLs Inline Mounting Pipe Brackets

Two pipe brackets can be used for wall mounting of FRLs assemblies that use pipe nipples to join the components. The bracket kits listed below include two sets of brackets.

| Nipple Size | Kit Number | Dime | nsions inches | (mm) |
|-------------|------------|-----------|---------------|-----------|
| Mppic Gize | THE HUMBER | Α | В | С |
| 1/4 | 887K77 | 2.72 (28) | 0.50 (13) | 1.00 (25) |
| 3/8 | 888K77 | 2.72 (28) | 0.50 (13) | 1.00 (25) |
| 1/2 | 889K77 | 2.72 (28) | 0.50 (13) | 1.00 (25) |
| 3/4 | 890K77 | 3.69 (94) | 1.13 (29) | 1.25 (32) |
| 1 | 891K77 | 3.69 (94) | 1.13 (29) | 1.25 (32) |



Bracket Assembly Kit for HIGH-RELIEF Pilot Operated Regulator

High-Relief Pilot Operated Regulator with 1/4- thru 11/4 inch ports can be mounted to a vertical surface using a bracket assembly kit.

| Kit Number | R-A37-381 |
|------------|-----------|
| | |



IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.

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The modular designs of the MID-SIZE and FULL-SIZE series offer maximum flexibility in customizing FRLs assemblies. As shown at the right, connector kits are required to interconnect units. Various port kits (shown below) can be used to connect the assemblies to the inlet and outlet piping. Note that all FRLs components have threaded ports so that conventional pipe fittings may be used where desired.

Female Port Block

Used to connect to piping at inlet or outlet.

| Dowt Cine | Model Number | | | | |
|-----------|--------------|--------------|--|--|--|
| Port Size | NPT Threads | BSPP Threads | | | |
| 1/4 | 897K77 | D897K77 | | | |
| 3/8 | 898K77 | D898K77 | | | |
| 1/2 | 899K77 | D899K77 | | | |
| 3/4 | 900K77 | D900K77 | | | |



Male Port Block

Used to connect modular to non-modular units.

| Port Size | Model Number | | | |
|-----------|--------------|--------------|--|--|
| Port Size | NPT Threads | BSPP Threads | | |
| 1/4 | 893K77 | D893K77 | | |
| 3/8 | 894K77 | D894K77 | | |
| 1/2 | 895K77 | D895K77 | | |
| 3/4 | 896K77 | D896K77 | | |



Connector Kit

Used to connect units to one another as well as to any of the ports shown on this page.

| Kit Number | 892K77 | n |
|------------|--------|---|
| | | 1 |



BANTAM Units

BANTAM modular units use end plates secured with screws to hold the pipe or tubing ports (see below), and also to serve as mounting brackets. Short screws are used to secure the end plates when a single BANTAM unit is used. If two or more units are combined, long screws extend through an end plate and thread into the next unit.

Screw kits required are as follows:

Single Unit: Two short screw kits.

Two-Unit Combination: One each short screw kit and long screw kit.

Three-Unit Combination: Two long screw kits.

| Pipe Ports | | | |
|---|--------------|--|--|
| Kit Description | Model Number | | |
| END PLATE (1) | 857K77 | | |
| Short Screw (2) | 858K77 | | |
| Long Screw (2) | 859K77 | | |
| Small O-Ring (for inlet or mating ports) | 860K77 | | |
| Large O-Ring (for outlet or mating ports) | 861K77 | | |



| Pipe Ports | | | |
|------------|--------------|--|--|
| Port Size | Model Number | | |
| 1/8 NPT | 862K77 | | |
| 1/4 NPT | 863K77 | | |
| 1/8 BSPP | D864K77 | | |
| 1/4 BSPP | D865K77 | | |

| | Tube Ports | |
|-----------|--------------|-----|
| | | |
| Port Size | Model Number | |
| 1/4 | 866K77 | 1 |
| 3/8 | 867K77 |] _ |
| 4 mm | 868K77 | |
| 6 mm | 869K77 | |
| 8 mm | 870K77 | |
| 10 mm | 871K77 |] |

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.

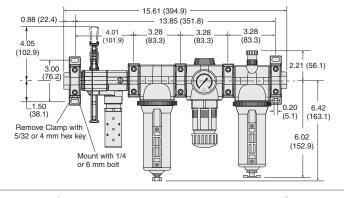


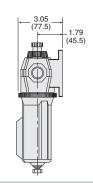
E6



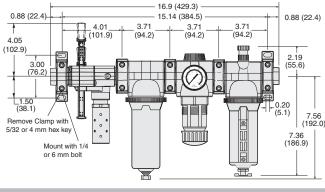
Dimensions: inches (mm)

MD3™ Series





MD4™ Series





Clamp for Module Connections

Specially designed clamps provide a quick and easy assembly or disassembly of MD modules. Two allen-head bolts quickly tighten or loosen the clamp using a 5/32 or 4mm hex key. The clamp contains a plate carrying two O-rings to provide positive sealing between modules.

Order clamp by model number R-A118-105.

Combined clamp and bracket (below) can be ordered by model number **R-A118-105M**.

Mounting Brackets

Two brackets are normally used to mount an FRL to a vertical surface. The mounting bracket attaches to the module connecting clamp (see above) with a single screw. Each bracket then employs two bolts (1/4" or 6mm) to connect the assembly to the mounting surface.

Order bracket and screw by model number **R-A118-103**. Combined bracket and clamp (above) can be ordered by model number **R-A118-105M**.



Male and Female End Ports

Either male or female end ports can be attached to threaded inlet and outlet lines. This allows all modules of an FRL assembly to be removed easily and quickly without having to unthread the end modules. The end ports are attached to the modules with clamps (see at left). End ports can be included in an assembled FRL or ordered separately by the following model numbers:

| Port Size | Male Part Number* | |
|--------------|----------------------|--|
| 1/4 | R-118-109-2F | |
| 3/8 | R-118-109-3F | |
| 1/2 | R-118-109-4F | |
| 3/4 | B-118-109-6F | |



| | Port | Female Part | |
|------|------|-------------|--|
| Size | | Number* | |
| | 1/4 | R-118-100-2 | |
| | 3/8 | R-118-100-3 | |
| | 1/2 | R-118-100-4 | |
| | 3/4 | R-118-100-6 | |



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* For BSPP threads, add a "W" suffix to the model number, e.g., R-118-109-2FW.

Extra Port Blocks

An extra port block can be placed between modules to provide two auxiliary 1/4 NPTF ports. Its mounting position can be rotated to obtain the most convenient operating orientation. If only one auxiliary port is to be used, the unused port must be closed with a pipe plug. (The inlet and outlet are not threaded.)

| Port Size | Model Number* |
|-----------|---------------|
| 1/4 | R-118-106-2 |
| 3/8 | R-118-106-3 |
| 1/2 | R-118-106-4 |



* For BSPP threads, add a "W" suffix to the model number, e.g., R-118-106-2W.

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.

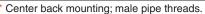


Online Version Rev. 07/21/17

Pressure Gauges

| Model Number* | Pressure Range psig (bar) | Case Diameter inches (mm) |
|---------------|---|--|
| 5400A1002 | 0-160 (0-11) | 1.5 (38) |
| 5400A2010 | 0-60 (0-4) | 2.0 (51) |
| 5400A2011 | 0-200 (0-14) | 2.0 (51) |
| 5400A2012 | 0-300 (0-20) | 2.0 (51) |
| 5400A2014** | 0-160 (0-11) | 2.5 (64) |
| 5400A2015*** | 0-160 (0-11) | 2.0 (51) |
| | 5400A1002 5400A2010 5400A2011 5400A2012 5400A2014** | Model Number psig (bar) 5400A1002 0-160 (0-11) 5400A2010 0-60 (0-4) 5400A2011 0-200 (0-14) 5400A2012 0-300 (0-20) 5400A2014** 0-160 (0-11) |





^{** 5400}A2014 - Stainless steel case liquid filled.



Differential Pressure Gauges

| | Small Slide Gauge | Small Slide Gauge | Large Dual Face Gauge | Large Dual Face Gauge with Reed Switch (Normally Open) | Large Dual Face Gauge with Reed Switch (Normally Closed) |
|-----------------------------------|----------------------|-------------------|--------------------------|--|--|
| DIFFERENTIAL | R-A60F-28 | R-K103-151 | R-106-35 | R-106-35E | R-106-35C |
| PRESSURE GAUGE TYPE/SERIES | A | | A | | |
| FILTERS | | | | | |
| BANTAM | _ | _ | _ | _ | _ |
| MINIATURE | _ | _ | _ | _ | _ |
| MID-SIZE | - | _ | _ | - | _ |
| MD3™ | | - | _ | _ | - |
| FULL-SIZE | _ | - | - | _ | - |
| MD4™ | _ | | | | |
| HIGH-CAPACITY | _ | _ | _ | _ | _ |
| COALESCING FIL | TERS | | | | |
| BANTAM | _ | - | _ | _ | - |
| MINIATURE | - | - | _ | _ | - |
| MID-SIZE | | - | _ | _ | - |
| FULL-SIZE | - | | | | |
| MD3™ | | - | - | - | - |
| MD4™ | _ | | | | |
| HIGH-CAPACITY | _ | | | | |
| OIL VAPOR REMO (ADSORBING) FIL | | | | | |
| MD3™ | _ | _ | - | _ | - |
| MD4™ | _ | - | - | _ | - |
| CLEAN AIR PACK | AGES | | | | |
| MD3™ | | - | - | _ | _ |
| MD4™ | _ | | | | |
| | | | | | |

IMPORTANT NOTE: Please read carefully and thoroughly all of the CAUTIONS, WARNINGS on the inside back cover.

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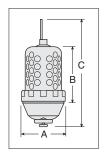
^{*** 5400}A2015 - Green shade between 40-70 psi (2.7-4.8 bar).

External Automatic Drains

| Dina Cina | Model Number* | | |
|-----------|----------------------|------------|--|
| Pipe Size | Polycarbonate Bowl** | Metal Bowl | |
| 1/8 | 5057B1001 | 5058B1001 | |
| 1/4* | 5057B2001 | 5058B2001 | |

*Use 1/4 size with FULL-SIZE, HIGH-CAPACITY, MD3™ & MD4™ filters. Use kit 1076K77 to convert standard bowl to accept auto drain unit.
**Available for FULL-SIZE filters only. Polycarbonate bowl includes metal bowl guard.

| Port Size | Dimensions inches (mm) | | | Weight | |
|-----------|------------------------|-----------|-----------|-----------|--|
| Port Size | Α | В | С | lb (kg) | |
| 1/8, 1/4 | 3.5 (89) | 4.2 (107) | 8.3 (211) | 2.6 (1.2) | |

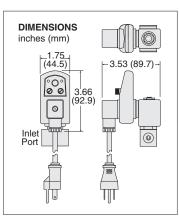




Electronically Controlled Drain

| Pipe Size | Voltage | Model Number** |
|-----------|----------------------------|----------------|
| 1/4 | 110-120 volts AC, 50/60 Hz | R-DED-115V-2 |
| 3/8 | 110-120 volts AC, 50/60 Hz | R-DED-115V-3 |
| 1/2 | 110-120 volts AC, 50/60 Hz | R-DED-115V-4 |
| 1/4 | 24 volts DC | R-DED-24V-2 |
| 3/8 | 24 volts DC | R-DED-24V-3 |
| 1/2 | 24 volts DC | R-DED-24V-4 |

** NPT port threads. For BSPP threads, add a "W" suffix to the model number, e.g., R-DED-115V-2W.







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STANDARD SPECIFICATIONS (for electronically controlled drain):

Drain Time: Adjustable 0.5 to 10 seconds. **Drain Interval:** Adjustable 0.5 to 45 minutes. **Current Consumption:** 4 ma maximum. **Ambient Temperature:** 35° to 130°F (2° to 54°C). **Media Temperature:** 35° to 190°F (2° to 88°C).

Electrical Connection: DIN 43650A, ISO 440/6952. Valve Type: 2/2 direct acting, normally closed. Valve Body: Forged brass; 3/16-inch (4.8 mm) orifice.

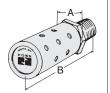
Maximum Pressure: 230 psig (15.8 bar).

Silencers



| Port Size | Thread Type | Model Number* | | Avg. | Dimensions inches (mm) | | Weight |
|-----------|----------------|---------------|--------------|----------------|------------------------|-----------|-----------|
| Port Size | | NPT Threads | BSPT Threads | C _v | Α | В | lb (kg) |
| 3/8 | Male | 5500A3003 | D5500A3003 | 4.3 | 1.3 (32) | 3.5 (88) | 0.2 (0.1) |
| 3/4 | Male | 5500A5013 | D5500A5013 | 5.1 | 1.3 (32) | 3.6 (92) | 0.2 (0.1) |
| 3/4 | Male | 5500A5003 | D5500A5003 | 11.5 | 2.0 (51) | 5.3 (135) | 0.6 (0.3) |





Flow Media: Filtered air.

Pressure Range: 0 to 300 psig (0 to 20.7 bar) maximum.



Replacements Filter Elements

FRL's Series

| Category | Series | Element Rating | Bowl Type | Element Material | Model Number |
|------------|---------------------------------|---------------------------------------|----------------|---------------------------|---------------|
| | Bantam | 5-µm | | Polyethylene | 933K77 |
| | Miniature | 5-µm | | Polyethylene | 933K77 |
| | MID-SIZE | 5-µm | | Polyethylene | 936K77 |
| | | 5-µm | | Polyethylene | R-A60F-03PE5 |
| | MD3™ | 5-µm | | Sintered Bronze | R-A60F-03E5 |
| | WID3···· | 20-µm | | Sintered Bronze | R-A60F-03E4 |
| | | 40-µm | | Sintered Bronze | R-A60F-03E3 |
| Filters | FULL-SIZE | 5-µm | | Polyethylene | 939K77 |
| | BAD ATM | 5-µm | | Polyethylene | R-A115-106PE5 |
| | MD4™ | 40-μm | | Sintered Bronze | R-A115-106PE3 |
| | HIGH-CAPACITY Flow to 275 scfm | 5-µm | | Polyethylene | 1010K77 |
| | HIGH-CAPACITY Flow to 660 scfm | 5-µm | | Sintered Bronze | 1656K77 |
| | | 40-μm | | Sintered Bronze | R-A114-106E3 |
| | HIGH-CAPACITY Flow to 1000 scfm | 5-μm | | Sintered Bronze | 942K77 |
| | | 40-µm | | Sintered Bronze | 944K77 |
| | | 0.3-µm | | Borosilicate-glass-fiber | 945K77 |
| | Bantam, Miniature | · · | | <u> </u> | |
| | <u> </u> | 0.01-µm | Okamata 1 | Borosilicate-glass-fiber | R-A-10F-16E8 |
| | | 0.3-µm | Standard | Borosilicate-glass-fiber | R-A60F-29 |
| | MID-SIZE | 0.3-µm | Extended | Borosilicate-glass-fiber | R-A60F-32 |
| | | 0.01-µm | Standard | Borosilicate-glass-fiber | R-A60F-29E8 |
| | | 0.01-μm | Extended | Borosilicate-glass-fiber | R-A60F-32E8 |
| | МОЗ™ | | Polycarbonate | Borosilicate-glass-fiber | R-A60F-23 |
| | | 0.3-μm | Metal | Borosilicate-glass-fiber | R-A60F-29 |
| | | | Extended Metal | Borosilicate-glass-fiber | R-A60F-32 |
| | | 0.01-µm | Polycarbonate | Borosilicate-glass-fiber | R-A60F-23E8 |
| | | | Metal | Borosilicate-glass-fiber | R-A60F-29E8 |
| | | | Extended Metal | Borosilicate-glass-fiber | R-A60F-32E8 |
| | | 0.3-µm | Standard | Borosilicate-glass-fiber | 947K77 |
| | FULL-SIZE | 0.3-µm | Extended | Borosilicate-glass-fiber | R-A103-160L |
| | FULL-SIZE | 0.01-µm | Standard | Borosilicate-glass-fiber | 948K77 |
| Coalescing | | 0.01-µm | Extended | Borosilicate-glass-fiber | R-A103-160LE8 |
| Filters | MD4™ | 0.2 | Standard | Borosilicate-glass-fiber | R-A115-117 |
| | | 0.3-µm | Extended | Borosilicate-glass-fiber | R-A115-118 |
| | | 0.01-µm | Standard | Borosilicate-glass-fiber | R-A115-117E8 |
| | | | Extended | Borosilicate-glass-fiber | R-A115-118E8 |
| | LUCU CARACITY EL | 0.3-µm | Standard | Borosilicate-glass-fiber | 949K77 |
| | HIGH-CAPACITY Flow to 220 scfm | 0.01-µm | Standard | Borosilicate-glass-fiber | R-A109-106E8 |
| | | | Standard | Borosilicate-glass-fiber | R-A114-112 |
| | HIGH-CAPACITY | 0.3-µm | Extended | Borosilicate-glass-fiber | R-A114-113 |
| | Flow to 295 & 450 scfm | | Standard | Borosilicate-glass-fiber | R-A114-112E8 |
| | | 0.01-μm | Extended | Borosilicate-glass-fiber | R-A114-113E8 |
| | HIGH-CAPACITY | | Standard | Borosilicate-glass-fiber | 952K77 |
| | | 0.3-μm | Extended | Borosilicate-glass-fiber | 953K77 |
| | Flow to 465 scfm | 0.01-µm | Standard | Borosilicate-glass-fiber | R-A106-24E8 |
| | | | Extended | Borosilicate-glass-fiber | R-A106-24LE8 |
| | HIGH-CAPACITY | 0.3-μm | Extended | Borosilicate-glass-fiber | 953K77 |
| | Flow to 840 scfm | 0.01-µm | Extended | Borosilicate-glass-fiber | R-A106-24E8 |
| | | 2:0. pm | Polycarbonate | Borosilicate-glass-fiber | R-A60F-29E9 |
| | BADOTM | | | | |
| Oil Vapor | MD3™ | | Metal | Borosilicate-glass-fiber | R-A60F-29E9 |
| Removal | | | Extended Metal | Borosilicate-glass-fiber | R-A60F-32E9 |
| Filters | MD4™ | 0.01-μm | Standard | Borosilicate-glass-fiber | R-A115-117E9 |
| | | | | Damas Waster also a Chair | D A115 110E0 |
| | | , , , , , , , , , , , , , , , , , , , | Extended | Borosilicate-glass-fiber | R-A115-118E9 |
| Silencers | Port Size 1/2 | 20-µm | Extended | Sintered Bronze | 940K77 |



Lubricants, Polycarbonate Bowl Cautions

Compatible Lubricants

Although air line lubrication is not required for most ROSS valves, other mechanisms in the system may need such lubrication. When a lubricator is used, it should be supplied only with oils which are compatible with the materials used in the valves for seals and poppets. Generally speaking, these are petroleum base oils with oxidation inhibitors, and aniline point between 180°F (82°C) and 220°F (104°C) and an ISO 32, or lighter, viscosity. Oils with phosphate type additives, such as zinc dithiophosphate, must be avoided because they can harm polyurethane valve components.

The best oils to use in pneumatic systems are those specifically compounded for air line lubricator service.

Cautions on the Use of Polycarbonate Bowls

Use Only with Compressed Air. Filters and lubricators with polycarbonate bowls are specifically designed for compressed air service, and their use with any other fluid (liquid or gas) is a misapplication. The use with or injection of certain hazardous fluids in the system (e.g., alcohol or liquefied petroleum gas) could be harmful to the polycarbonate bowl or result in a combustible condition or hazardous leakage. Before using with a fluid other than air, or for nonindustrial applications, or for life support systems, consult ROSS.

Use Metal Bowl Guard When Supplied. A metal bowl guard is supplied with all but the smallest bowls, and must always be used to minimize danger from fragmentation in the event of failure of a polycarbonate bowl.

Avoid Harmful Substances. Some compressor oils, chemical cleaners, solvents, paints, and fumes will attack polycarbonate bowls and can cause bowl failure. Do not use with or near these materials. When a bowl becomes dirty, replace the bowl or wipe it with a clean dry cloth. Immediately replace any polycarbonate bowl which is crazed, cracked, or deteriorated.

Substances HARMFUL to Polycarbonate Bowls

Acetaldehyde
Acetic acid
Acetone
Acrylonitrile
Ammonia
Ammonium fluoride
Ammonium hydroxide

Ammonium sulfide Anaerobic adhesives & sealants Antifreeze

Benzene Benzoic acid Benzyl alcohol Brake fluids Bromobenzene Butyric acid

Carbolic acid

Carbon disulfide

Carbon tetrachloride Caustic potash solution Caustic soda solution Chlorobenzene Chloroform

Cresol Cyclohexanol Cyclohexanone Cyclohexene

Dimethyl formamide Dioxane

Ethane tetrachloride
Ethyl acetate
Ethyl ether
Ethylamine

Ethylene chlorohydrin

Ethylene dichloride Ethylene glycol

Formic acid Freon (refrigerant & propellant) Gasoline (high aromatic)

Hydrazine
Hydrochloric acid
Lacquer thinner
Methyl alcohol
Methylene chloride
Methylene salicylate
Milk of lime (CaOH)
Nitric acid

Nitrobenzene Nitrocellulose lacquer

Phenol

drin Phosphorous hydroxyl chloride

Phosphorous trichloride

Propionic acid Pyridine

Sodium hydroxide Sodium sulfide Styrene Sulfuric acid Sulfural chloride Tetrahydronaphthalene

Thiophene
Toluene
Turpentine
Xylene
Perchlorethylene

Trade Names of Substances HARMFUL to Polycarbonate Bowls

- Atlas Perma-Guard Buna N Cellulube #150 & #220 Crylex #5 cement Eastman 910 Garlock 98403 (polyurethane)
- Haskel 568-023 Hilgard Company's hil phene Houghton & Co. oil 1120, 1130, 1055 Houtosafe 1000 Kano Kroil
- Keystone penetrating oil #2 Loctite 271, 290, 601 Loctite Teflon sealant Marvel Mystery Oil Minn. Rubber 366Y
- National Compound N11 Nylock VC-3 Parco 1306 Neoprene Permabond 910 Petron PD287 Prestone Pydraul AC
- Sears Regular Motor Oil Sinclair oil "Lily White" Stauffer Chemical FYRQUEL 150 Stillman SR 269-75 (polyurethane)
- Stillman SR 513-70 (neoprene) Tannergas Telar Tenneco anderol 495 & 500 oils Titon Vibra-tite Zerex



General Information

Standard Specifications

The standard specifications for the products on each page of this catalog are given on the same page or referenced. For solenoid pilot valves, models with internal pilot supply are listed. Most models are also available for use with external pilot supply or have a built-in pilot supply selector valve.

The products in this catalog are intended for use in industrial pneumatic systems. Most products are adaptable to other uses and conditions not covered by the standard specifications given in this catalog. Weights shown are approximate and are subject to change. Dimensions given, unless otherwise noted, are envelope dimensions (not for mounting). Consult ROSS for further information.

Port Threads

Ports of valves and bases described in this catalog have NPT (ANSI B2.1) threads. Other thread types can be specified by putting an appropriate prefix letter on the model or part number when ordering.

Thread Types by Model Prefix Letter

| Prefix Letter | Threaded Electrical Opening |
|------------------|--------------------------------|
| None | NPT |
| C* | _ |
| D | G |
| J | ISO |
| S | NPT |
| | None C* D |

^{*} Used only for filters, regulators, lubricators.

Flow Ratings

Flow ratings are expressed as $C_{\rm v}$ where $C_{\rm v}$ = 1 corresponds to a steady state air flow of approximately 32 scfm under the following conditions:

Inlet pressure = 100 psig (6.7 bar) Pressure drop = 10 psi (0.69 bar) Air temperature = 68°F (20°C) Relative humidity = 36%

Note: Because widely differing test standards are used to measure $C_{\rm v}$ values, the figures given in this catalog should not be used to compare ROSS valves with those of other makers. The $C_{\rm v}$ ratings given here are intended only for use with performance charts published by ROSS. The $C_{\rm v}$ ratings are averages for the various flow paths through the valve and are for steady flow conditions.

Approvals and Certifications

ROSS products are designed to meet a number of industrial standards, including the Canadian Standards Association (C.S.A.) guidelines. For more information on specific product approvals, contact your local distributor or ROSS.

Solenoids

All ROSS standard solenoids are rated for continuous duty (unless noted otherwise) and will operate the valve within the air pressure range specified in this catalog.

Explosion-Proof Solenoid Pilot available, for more information consult ROSS.

Voltage & Hertz

When ordering a solenoid valve, also specify the desired solenoid voltage and hertz.

Voltage Types by Model Suffix Letter

| Voltage | Suffix Letter |
|--------------|---------------|
| 120 volts AC | Z |
| 220 volts AC | Υ |
| 12 volts DC | Н |
| 24 volts DC | W |
| 48 volts DC | M |
| 90 volts DC | K |
| 110 volts DC | Р |
| 125 volts DC | С |
| | |

Recommended Solenoid Voltages: 100-110 volts AC, 50 Hz; 100-120 volts AC, 60 Hz; 24 volts DC; 110 volts DC.

In addition, the following voltages are available:

200, 220 volts AC, 50 Hz 200, 240, 480 volts AC, 60 Hz

24, 48, 220 volts AC, 50 Hz

240 volts AC, 60 Hz

200, 220 volts AC, 50 Hz 200, 240 volts AC, 60 Hz.

For example: Model 2773B5001, 120 volts AC, 60 Hz.

Model W6076B2401, 220 volts AC, 50 Hz.

Please note that not all configurations are available for all models.

For additional information or help with voltage configuration, please contact your local distributor or ROSS.

Port Identification

Valve symbols in this catalog conform to the ISO 1219-1:1991 standard of the International Organization for Standardization (ISO) and the SAE J2051 standard of the Society of Automotive Engineers (SAE) respectively.

Information or Technical Assistance

For additional information or application assistance concerning ROSS products, consult ROSS or your local ROSS distributor (see contact information on the back cover).

Order Placement

For order placement, consult ROSS or your local ROSS distributor.

For a current list of countries and local distributors, visit ROSS' website at www.rosscontrols.com.



[#]ISO 228 threads superseds BSPP, G and JIS thread types.

CAUTIONS, WARNINGS and STANDARD WARRANTY

PRE-INSTALLATION or SERVICE

- 1. Before servicing a valve or other pneumatic component, be sure that all sources of energy are turned off, the entire pneumatic system is shut off and exhausted, and all power sources are locked out (ref: OSHA 1910.147, EN 1037).
- 2. All ROSS products, including service kits and parts, should be installed and/or serviced only by persons having training and experience with pneumatic equipment. Because any installation can be tampered with or need servicing after installation, persons responsible for the safety of others or the care of equipment must check every installation on a regular basis and perform all necessary maintenance.
- 3. All applicable instructions should be read and complied with before using any fluid power system in order to prevent harm to persons or equipment. In addition, overhauled or serviced valves must be functionally tested prior to installation and use. If you have any questions, call your nearest ROSS location listed on the cover of this document.
- 4. Each ROSS product should be used within its specification limits. In addition, use only ROSS parts to repair ROSS products.

WARNING: Failure to follow these directions can adversely affect the performance of the product or result in the potential for human injury or damage to property.

FILTRATION and LUBRICATION

- 5. Dirt, scale, moisture, etc. are present in virtually every air system. Although some valves are more tolerant of these contaminants than others, best performance will be realized if a filter is installed to clean the air supply, thus preventing contaminants from interfering with the proper performance of the equipment. ROSS recommends a filter with a 5-micron rating for normal applications.
- 6. All standard ROSS filters and lubricators with polycarbonate plastic bowls are designed for compressed air applications only. Do *not* fail to use the metal bowl guard, where provided, to minimize danger from high pressure fragmentation in the event of bowl failure. Do not expose these products to certain fluids, such as alcohol or liquefied petroleum gas, as they can cause bowls to rupture, creating a combustible condition, hazardous leakage, and the potential for human injury or damage to property. Immediately replace a crazed, cracked, or deteriorated bowl. When bowl gets dirty, replace it or wipe it with a clean dry cloth.

7. Only use lubricants which are compatible with materials used in the valves and other components in the system. Normally, compatible lubricants are petroleum based oils with oxidation inhibitors, an aniline point between 180°F (82°C) and 220°F (104°C), and an ISO 32, or lighter, viscosity. Avoid oils with phosphate type additives which can harm polyurethane components, potentially leading to valve failure which risks human injury, and/or damage to property.

AVOID INTAKE/EXHAUST RESTRICTION

- 8. Do not restrict the air flow in the supply line. To do so could reduce the pressure of the supply air below the minimum requirements for the valve and thereby cause erratic action.
- 9. Do not restrict a valve's exhaust port as this can adversely affect its operation. Exhaust silencers must be resistant to clogging and must have flow capacities at least as great as the exhaust capacities of the valves. Contamination of the silencer can result in reduced flow and increased back pressure.

WARNING: ROSS expressly disclaims all warranties and responsibility for any unsatisfactory performance or injuries caused by the use of the wrong type, wrong size, or an inadequately maintained silencer installed with a ROSS product.

POWER PRESSES

10. Mechanical power presses and other potentially hazardous machinery using a pneumatically controlled clutch and brake mechanism must use a press control double valve with a monitoring device. A double valve without a self-contained monitoring device should be used only in conjunction with a control system which assures monitoring of the valve. All double valve installations involving hazardous applications should incorporate a monitoring system which inhibits further operation of the valve and machine in the event of a failure within the valve mechanism.

ENERGY ISOLATION/EMERGENCY STOP

11. Per specifications and regulations, ROSS L-O-X® and L-O-X® with EEZ-ON® operation products are defined as energy isolation devices, NOT AS EMERGENCY STOP DEVICES.

STANDARD WARRANTY

All products sold by ROSS CONTROLS are warranted for a one-year period [with the exception of all Filters, Regulators and Lubricators ("FRLs") which are warranted for a period of seven years] from the date of purchase to be free of defects in material and workmanship. ROSS' obligation under this warranty is

limited to repair or replacement of the product or refund of the purchase price paid solely at the discretion of ROSS and provided such product is returned to ROSS freight prepaid and upon examination by ROSS is found to be defective. This warranty becomes void in the event that product has been subject to misuse, misapplication, improper maintenance, modification or tampering.

THE WARRANTY EXPRESSED ABOVE IS IN LIEU OF AND EXCLUSIVE OF ALL OTHER WARRANTIES AND ROSS EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES EITHER EXPRESSED OR IMPLIED WITH RESPECT TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ROSS MAKES NO WARRANTY WITH RESPECT TO ITS PRODUCTS MEETING THE PROVISIONS OF ANY GOVERNMENTAL OCCUPATIONAL SAFETY AND/OR HEALTH LAWS OR REGULATIONS. IN NO EVENT IS ROSS LIABLE TO PURCHASER, USER, THEIR EMPLOYEES OR OTHERS FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES WHICH MAY RESULT FROM A BREACH OF THE WARRANTY DESCRIBED ABOVE OR THE USE OR MISUSE OF THE PRODUCTS. NO STATEMENT OF ANY REPRESENTATIVE OR EMPLOYEE OF ROSS MAY EXTEND THE LIABILITY OF ROSS AS SET FORTH HEREIN.





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Full-Service Global Locations

There are ROSS Distributors Throughout the World

To meet your requirements across the globe, ROSS distributors are located throughout the world. Through ROSS or its distributors, guidance is available for the selection of ROSS products, both for those using pneumatic components for the first time and those designing complex pneumatic systems.

Other literature is available for engineering, maintenance, and service requirements. If you need products or specifications not shown here, please contact ROSS or your ROSS distributor. They will be happy to assist you in selecting the best product for your application.

For a current list of countries and local distributors, visit ROSS' website at www.rosscontrols.com.