



































# Contents | Manual Air Valve Numbering System

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#### **Manual Air Valve Numbering System** 03PB Ordering Part No. = (e.g., **MOV-03PB**) #Way & # Position Model Port Size (NPT) Options **01** = Turn Select, **02** = Roller, **03** = Button (Momentary) Leave Blank = Plunger (Non-Detented), E = Palm Button (Detented), PB = Palm Manual Air Valves MOV 3 Way 2 Position 1/8 Push Button (Non-Detented), PPL = Push Button (Non-Detented), PP = Flush Push blank) Color Options: G = Green, R = Red 4 Way 2 Position (leave Manual Air Valves MPV 522 1/4 Toggle blank) Leave Blank = Plunger (Non-Detented), EB = Emergency Stop Button (Detented), 3 Way 2 Position 98322 PB = Palm Button (Non-Detented), PP = Flush Push Button (Non-Detented), PPL = (leave MSV Manual Air Valves 1/4 Push Button (Non-Detented), **R** = Roller Lever (Non-Detented), **TB** = Knob Switch blank) 4 Way 2 Position 86522 (Detented) Color Options: G = Green, K = Black, R = Red 3 Way 2 Position 98322 (leave Hand Lever Valves TSV 1/4 M = Detented, S = Non-Detented (Spring Return) blank) 86522 4 Way 2 Position 4 Way 3 Position M = Detented, S = Non-Detented (Spring Return), Boot = Rubber Boot, Handle = 230C (Closed Center) Black Plastic Handle 4 Way 3 Position (leave Hand Lever Valves 4H 230E 1/4 (Exhaust Center) blank) M = Detented, S = Non-Detented (Spring Return) 4 Way 3 Position 230P (Pressure Center) 210 3R 3 Way 2 Position (leave Pull/Push Valves 1/4 M = Detented, S = Non-Detented (Spring Return) 4 Way 2 Position blank) 4R 210 4 Way 3 Position 400 (leave Hand Valve H۷ 1/4 Leave Blank = Detented blank) 4 Way 2 Position 410 2 Way 2 Position 220 (leave F۷ 3 Way 2 Position 320 1/4 Leave Blank = Detented, FT = Rubber Foot Pad for Valve blank) Foot Operated Valve 4 Way 2 Position 420 (leave 4F 4 Way 2 Position Leave Blank = Detented, FT = Rubber Foot, L = Detented (with Lock), G = Guard blank)

| Specifications        |             |  |             |               |              |              |                     |             |              |  |  |  |
|-----------------------|-------------|--|-------------|---------------|--------------|--------------|---------------------|-------------|--------------|--|--|--|
| Model No.             | FV Series   | FV Series   HV Series   MOV Series   MPV Series   MSV Series   TSV Series   3R-4R Series   4F Series   4H Series |             |               |              |              |                     |             |              |  |  |  |
| Description           | Foot Valves | Hand Valves  | Hand Valves | Toggle Valves | Hand Valves  | Lever Valves | Pull/Push<br>Valves | Foot Valves | Lever Valves |  |  |  |
| Cv                    | 0.89        | 1.68   | 0.67        | 1.0           | 0.89         | 1.0          | 0.89                | 1.68        | 0.89         |  |  |  |
| Operating Pressure    |             | 0 to 116 PSI   |             |               |              |              |                     |             |              |  |  |  |
| Operating Temperature |             | 14 to 140°F (-10 to 60°C)  |             |               |              |              |                     |             |              |  |  |  |
| Action                |             | Direct Acting  |             |               |              |              |                     |             |              |  |  |  |
| Working Medium        |             | 40 micron filtered air or inert gas  |             |               |              |              |                     |             |              |  |  |  |
| Body Material         |             | Aluminum (Anodized)  |             |               |              |              |                     |             |              |  |  |  |
| Seal Material         | NBR         |  |             |               |              |              |                     |             |              |  |  |  |
| Lubrication           |             |  |             |               | Not Required |              |                     |             |              |  |  |  |

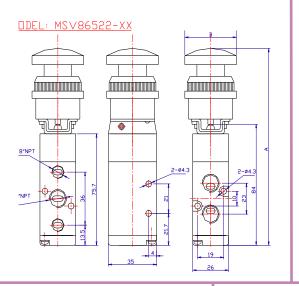
| Specifications Specification Specif |  |                                     |                             |                |  |  |  |  |  |  |
|--|--|-------------------------------------|-----------------------------|----------------|--|--|--|--|--|--|
| Model No.  | ASC Series AS Series QE Series ST Series |                                     |                             |                |  |  |  |  |  |  |
| Description  | Flow Control Valves                      | Flow Control Valves                 | Quick Exhaust Valves        | Shuttle Valves |  |  |  |  |  |  |
| Orifice (mm)   | 1/8                                      | 3" = 4.6; 1/4" = 6.0; 3/8"          | = 6.2; 1/2" = 9.6; 3/4" = 9 | 9.8            |  |  |  |  |  |  |
| Operating Pressure   | 0 to 140 PSI 7 to 145PSI 0 to 145PSI     |                                     |                             |                |  |  |  |  |  |  |
| Operating Temperature  | 14 to 140°F (-10 to 60°C)                |                                     |                             |                |  |  |  |  |  |  |
| Working Medium   |  | 40 micron filtered air or inert gas |                             |                |  |  |  |  |  |  |
| Body Material  | Aluminum (Anodized)                      |                                     |                             |                |  |  |  |  |  |  |
| Seal Material  | NBR                                      |                                     |                             |                |  |  |  |  |  |  |
| Lubrication  |  | Not Required                        |                             |                |  |  |  |  |  |  |

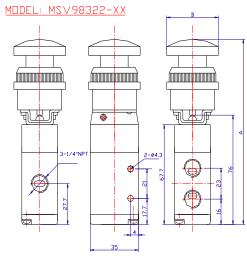


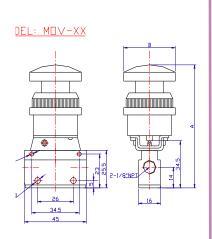
|   |                    |  |                    |                                   |  | 1                  |   |                    |  |                  | -  |                                | 1       |  |
|---|--------------------|--|--------------------|-----------------------------------|--|--------------------|---|--------------------|--|------------------|--|--------------------------------|---------|--|
| 1/4" NPT<br>4 Way 5 Por<br>2 Position<br>Air Valves | t                  |  |                    |                                   |  |                    |   |                    |  |                  |  |                                |         | - The state of the |
| Model No.   | MS                 | V-86522TB  | MSV-8              | MSV-86522EB                       |  | 22PB               | MSV-86522F                                  | PP M               | SV-86522PPL  | MSV              | -86522R                                  | TSV865<br>TSV865               |         | 4R210-1/4M<br>4R210-1/4S   |
| Price   |                    | \$39.21  | \$3!               | 9.21                              | \$39.2   |                    | \$39.21                                     |                    | \$39.21  | \$3              | 39.21                                    | \$41.3                         |         | \$27.74  |
| Description   | Dete               | vo Position<br>ented Switch<br>Cv 0.89                                 | Dete               | ency Stop<br>ented<br>0.89        | Palm Bu<br>Moment<br>Cv 0.8  | ary                | Push Buttor<br>Momentary<br>Cv 0.89         | Hig                | jh Push Buttor<br>nentary Cv 0.8                                 |                  | er Lever<br>/ 0.89                       | Leve<br>M = Dete<br>S = Non-de | ented   | Pull/Push  M = Detented  S = Non-detented  |
| 1/4" NPT<br>4 Way 5 Por<br>2 Position<br>Air Valves | t                  |  | Port 3 P           | T 4 Way 5<br>osition Air<br>llves | a a c  |                    | 0,00  |                    |  | 3 Wa<br>2 P      | l" NPT<br>ay 3 Port<br>osition<br>Valves | 000                            |         | effer main   |
| Model No.   |                    | MPV522   | Mod                | el No.                            | 4H2300<br>4H2300   |                    | 4H230E-M<br>4H230E-S                        |                    | 4H230P-M<br>4H230P-S   | Mo               | del No.                                  | TSV983<br>TSV983               |         | 3R210-1/4M<br>3R210-1/4S   |
| Price   |                    | \$55.67  | Pi                 | rice                              | \$85.5<br>3 Position,  |                    | \$85.55<br>3 Position, 4 V                  | Jay 3.5            | \$85.55<br>Position, 4 Way                                       |                  | Price                                    | \$39.2                         |         | \$27.04  |
| Description   |                    | ggle Switch<br>Cv 0.89   | Desc               | cription                          | 3 Position,<br>Closed Community M = Dete<br>S = Non-de   | enter nted         | Exhaust Cent  M = Detente  S = Non-deten    | ter Pr             | Position, 4 Way<br>essure Center<br>= Detented<br>= Non-detented | Des              | cription                                 | M = Dete<br>S = Non-de         | ented   | Pull/Push M = Detented S = Non-detented  |
| 1/4" NPT<br>3 Way 3 Por<br>2 Position<br>Air Valves | t                  |  |                    |                                   |  |                    |   |                    |  | Port 2 I         | PT 3 Way 2<br>Position Air<br>alves      |                                |         | (0)  |
| Model No.   | MS                 | V-98322TB  | MSV-9              | 98322EB                           | MSV-98322PB  |                    | MSV98322PP                                  | Р М                | MSV-98322R   | Mo               | Model No.                                | MOV-01                         |         | MOV-02   |
| Price   |                    | \$37.20  |                    | 7.20                              | \$38.4   |                    | \$37.20                                     |                    | \$37.20  | F                | Price                                    | \$23.6                         | 57      | \$23.67  |
| Description   |                    | Position Switch<br>Cv 0.89   | Det                | ency Stop<br>tented<br>0.89       | Palm Bu<br>Moment<br>Cv 0.8  | ary                | Push Button<br>Momentary<br>Cv 0.89         |                    | Roller Lever<br>Momentary<br>Cv 0.89                             |                  | cription                                 | Two Position Switch<br>Cv 0.67 |         | Roller Lever<br>Normally Closed<br>Cv 0.67   |
| 1/8" NPT 3 Wa<br>Port 2 Position<br>Valves          | sition Air         |  |                    |                                   |  |                    |   |                    |  | l" NPT<br>Valves | 0 0                                      |                                |         |  |
| Model No.   | N                  | IOV-03EB   | MOV                | /-03PL                            | MOV-03   | PP                 | MOV-03PB                                    |                    |  | Mo               | del No.                                  | HV 4                           | 10      | HV 400/420   |
| Price   |                    | \$23.67  | \$2                | 3.67                              | \$23.6   | 7                  | \$23.67                                     |                    |  | F                | Price                                    | \$42.6                         | 60      | \$42.60  |
| Description   | N                  | ergency Stop Nomentary Cv 0.67  Push Button Momentary Cv 0.67  Cv 0.67 |                    | entary                            | Flush Push Button<br>Momentary<br>Cv 0.67  |                    | (Green) Palm Button<br>Momentary<br>Cv 0.67 |                    |  | Des              | cription                                 | 2 Posit<br>4 Way V<br>Cv 1.6   | 'alve   | 3 Position<br>4 Way Valve<br>Closed Center<br>Cv 1.68  |
| 1/4" NPT<br>Air Valves                              | R                  |  |                    |                                   | Contract of the Contract of th |                    |   |                    |  |                  | . Mark                                   |                                | n kide  |  |
| Model No.   | F                  | V220-1/4   |                    | 20-1/4                            | FV420-   |                    | 4F210                                       |                    | 4F210L   |                  | 210G                                     | 4F210                          |         |  |
| Price   |                    | \$45.30  |                    | 5.30<br>May                       | \$48.0   |                    | \$54.77                                     |                    | \$70.28  | 4                | 85.84<br>Way                             | \$110.                         |         |  |
| Description   |                    | 2 Way<br>Iomentary<br>oot Valve  | Mom                | Way<br>lentary<br>Valve           | 4 Wa<br>Moment<br>Foot Va  | ary                | 4 Way<br>Momentary<br>Foot Valve            |                    | 4 Way<br>Detented<br>Foot Valve                                  | Sh<br>Mor        | ielded<br>nentary<br>ot Valve            | 4 Way Sh<br>Detented Fo        |         |  |
|   | 000                |  | •                  |                                   |  | A A                |   | 0                  |  |                  |  |                                |         |  |
| Model   |                    | Exhaust  | Shuttle            | e Valve                           | In-line Flo  |                    | In-line Flo                                 |                    |  | trol Muffler     | Mu'                                      | ffler                          | Unic    | on Valve<br>UV   |
| Port  | Part No.           | Unit Price   | Part No.           | Unit Price                        | Part No.   | Unit Price         | Part No.                                    | Unit Price         | Part No.   | Unit Price       |  | Unit Price                     | Part No |  |
| 10-32   | OF 111.72          | 040.57   | OT MACE            | 040.55                            | A00 1:15   | 047.77             | AC 11: '2                                   | <b>A</b> 44.50     | DESI   | A 1 ==           | BSL 10-32                                |                                | 1072    | <b>**</b>  |
| 1/8   | QE N1/8<br>QE N1/4 | \$18.67<br>\$21.09   | ST N1/8<br>ST N1/4 | \$18.67<br>\$21.09                | ASC N1/8<br>ASC N1/4   | \$17.58<br>\$17.58 | AS N1/8<br>AS N1/4                          | \$11.29<br>\$11.29 | BESL N1/8<br>BESL N1/4   | \$4.77<br>\$6.77 | BSL N1/8<br>BSL N1/4                     | \$1.31<br>\$2.53               | UV 6-6  | \$15.81<br>4 \$15.81   |
| 1/4   |                    |  |                    |                                   |  |                    | 1   |                    |  |                  |  |                                |         |  |
| 3/8<br>1/2  | QE N3/8<br>QE N1/2 | \$21.09<br>\$24.02   | ST N3/8<br>ST N1/2 | \$21.09<br>\$34.43                | ASC N3/8<br>ASC N1/2   | \$20.29<br>\$24.34 | AS N3/8<br>AS N1/2                          | \$13.52<br>\$21.17 | BESL N3/8<br>BESL N1/2   |                  | BSL N3/8<br>BSL N1/2                     | \$3.83<br>\$5.88               |         |  |

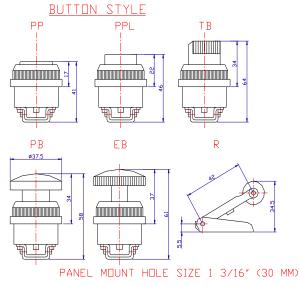


### **Push Button Dimensions**

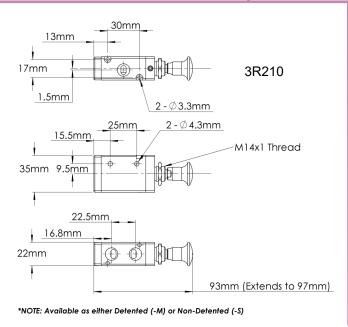


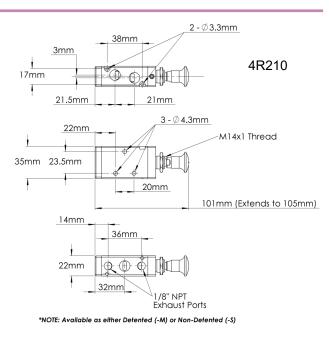




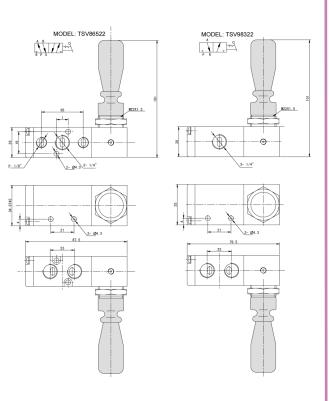


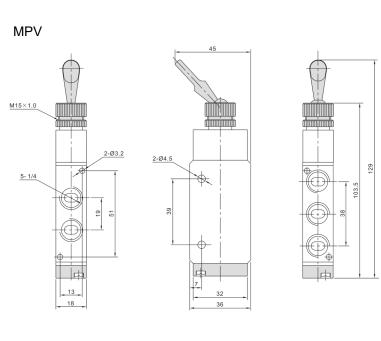
Unit in (mm)

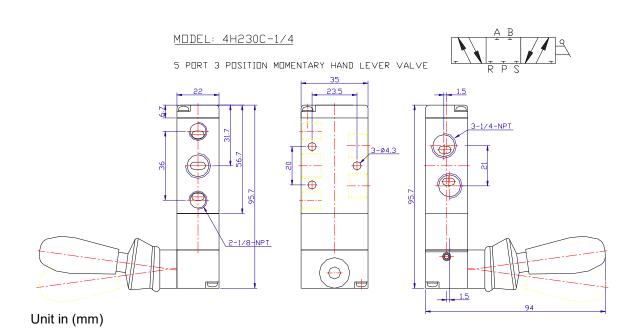






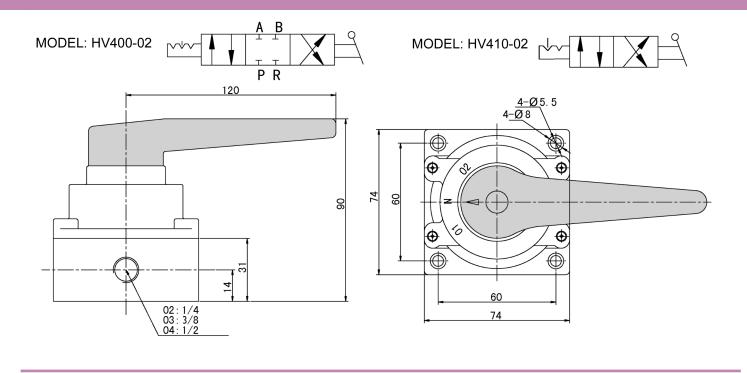


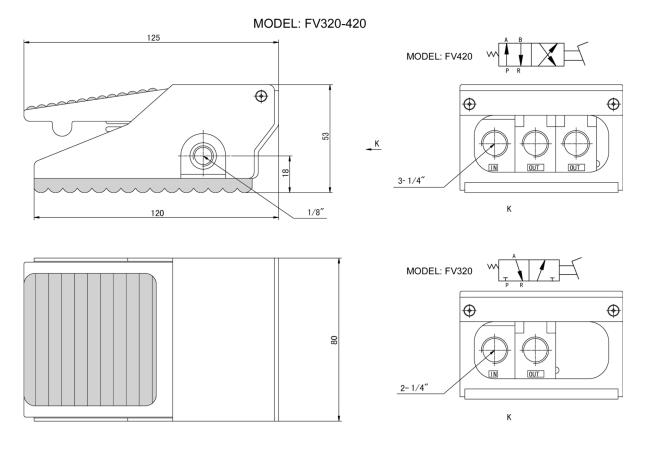






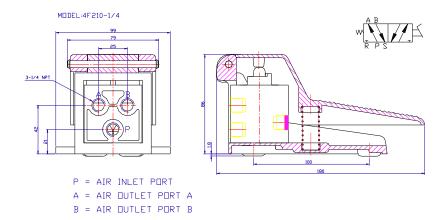
## **Hand Lever Dimensions**



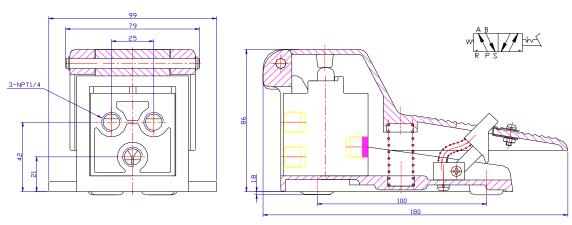


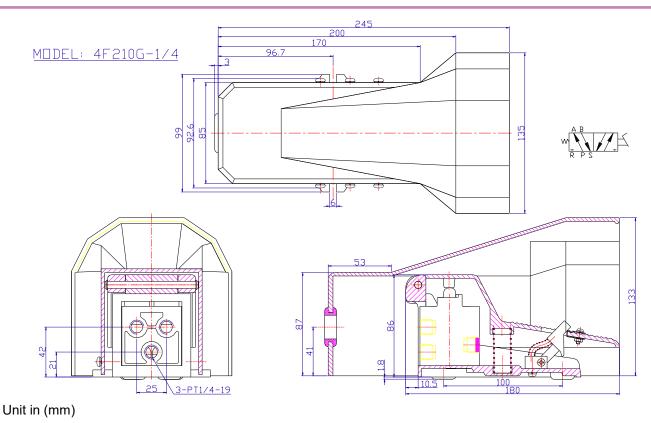
Unit in (mm)





#### MODEL: 4F210L-1/4



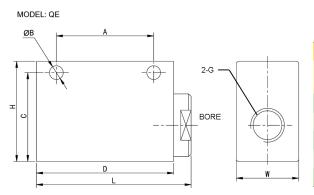


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### **Quick Exhaust & Control Valve Dimensions**

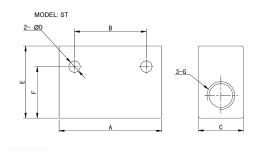
### **Quick Exhaust Valve**

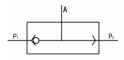




| Quick Exhaust Valve (mm) |               |            |    |    |    |    |     |      |    |     |  |
|--------------------------|---------------|------------|----|----|----|----|-----|------|----|-----|--|
| Model<br>No.             | Bore<br>(NPT) | G<br>(NPT) | L  | W  | Н  | Α  | В   | С    | D  | Cv  |  |
| QE-01                    | 1/4           | 1/8        | 46 | 20 | 32 | 30 | 4.3 | 27.0 | 40 | 1.0 |  |
| QE-02                    | 3/8           | 1/4        | 62 | 25 | 40 | 39 | 5.6 | 33.5 | 55 | 1.3 |  |
| QE-03                    | 1/2           | 3/8        | 62 | 25 | 40 | 39 | 5.6 | 33.5 | 55 | 1.4 |  |
| QE-04                    | 3/4           | 1/2        | 98 | 38 | 64 | 60 | 8.5 | 51.0 | 90 | 4.0 |  |
| QE-06                    | 1             | 3/4        | 98 | 38 | 64 | 60 | 8.5 | 51.0 | 90 | 4.1 |  |

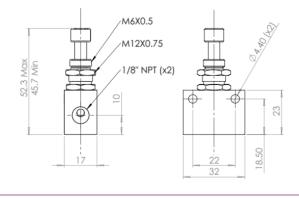
#### Shuttle Valve



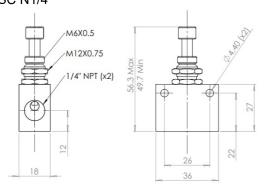


|              | Shuttle Valve (mm) |    |    |     |    |    |         |      |  |  |  |  |
|--------------|--------------------|----|----|-----|----|----|---------|------|--|--|--|--|
| Model<br>No. | Α                  | В  | С  | D   | E  | F  | G (NPT) | Cv   |  |  |  |  |
| ST-01        | 40                 | 24 | 16 | 4.5 | 25 | 21 | 1/8     | 0.35 |  |  |  |  |
| ST-02        | 50                 | 35 | 22 | 5.5 | 35 | 25 | 1/4     | 1.0  |  |  |  |  |
| ST-03        | 75                 | 48 | 30 | 7.0 | 50 | 42 | 3/8     | 2.0  |  |  |  |  |
| ST-04        | 75                 | 48 | 30 | 7.0 | 50 | 42 | 1/2     | 3.5  |  |  |  |  |
| ST-06        | 110                | 72 | 40 | 7.0 | 70 | 58 | 3/4     | 6.0  |  |  |  |  |
| ST-08        | 110                | 72 | 40 | 7.0 | 70 | 58 | 1       | 100. |  |  |  |  |

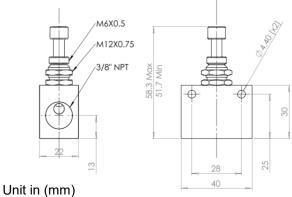
### **ASC N1/8**







### ASC N3/8



ASC N1/2

