



(317) 346-4110

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GATE VALVE TECHNICAL DATA

MATERIAL & GENERAL SPECIFICATIONS

| | 1½" (50mm) | 2" (63mm or 75/90mm) | 3" (90mm) | 4" (110mm) | 6" / 8" (160/200mm) | 10" / 12" |
|-------------------------------|------------------------|------------------------|------------------------|--------------|---------------------|-----------|
| Color | White or Black (Gray) | White or Black (Gray) | White or Black (Gray) | White (Gray) | White (Gray) | White |
| Hubs | PVC or ABS (PVC) | PVC or ABS (PVC) | PVC or ABS (PVC) | PVC (PVC) | PVC | PVC |
| Body | PVC or ABS (PVC) | PVC or ABS (PVC) | PVC or ABS (PVC) | PVC (PVC) | ABS | ABS |
| Shaft | 304SS | 304SS | 304SS | 304SS | 304SS | 304SS |
| Paddle | Polypro | Polypro or 304SS | Polypro or 304SS | 304SS | 304SS | 304SS |
| Handle | Plastic or Die Cast Al | Plastic or Die Cast Al | Plastic or Die Cast Al | Die Cast Al | 304SS | 304SS |
| Seals | Sarlink | Sarlink | Sarlink | Sarlink | Sarlink | Sarlink |
| PSI | 45 | 40 | 30 | 20 | 10 | 10 |
| Mid-Flow Max Closing Pressure | 6 psi | 1 psi (PP) 15 psi (SS) | .5 psi (PP) 9 psi (SS) | 8 psi | 2.5 psi | 2.5 psi |
| Air Cylinder | Reinforced Nylon | SS or Reinforced Nylon | SS or Reinforced Nylon | SS | SS | SS |

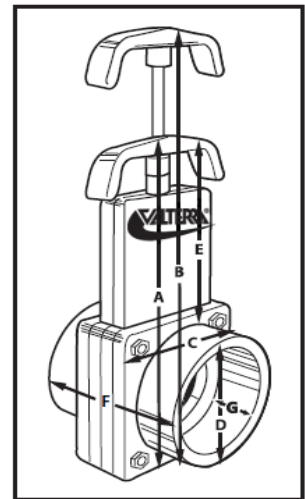
Notes:

Vacuum Applications: 1½" to 4" tested to 26 Hq in.

Metric Valves are Gray PVC

MANUAL VALVE DIMENSIONS (Inches)(mm)

| Size | A | B | C | D | E | F | G |
|---------|-------|--------|-------|--------|---------|--------|-------|
| 1.5 ABS | 6.5 | 8.625 | 2.875 | 2.375 | 3.9375 | 2.875 | 0.7 |
| 1.5 PVC | 6.5 | 8.625 | 2.875 | 2.375 | 3.9375 | 3.375 | 1.25 |
| 50mm | 168 | 222 | 76 | 64 | 98 | 98 | 35 |
| 2 ABS | 7.5 | 10.25 | 3.37 | 2.6875 | 4.5 | 3.125 | 0.75 |
| 2 PVC | 7.5 | 10.25 | 3.37 | 2.75 | 4.5 | 3.5 | 1.125 |
| 63mm | 191 | 260 | 86 | 73 | 111 | 105 | 37 |
| 75/90mm | 238 | 324 | 111 | 89 | 130 | 133 | 48 |
| 3 ABS | 9.25 | 13 | 4.375 | 3.9375 | 5.1875 | 4.5 | 1.6 |
| 3 PVC | 9.25 | 13 | 4.375 | 3.9375 | 5.1875 | 4.5 | 1.8 |
| 90mm | 238 | 324 | 111 | 105 | 130 | 133 | 48 |
| 4 PVC | 13.25 | 18 | 6.625 | 5 | 7.4375 | 5.1875 | 1.75 |
| 110mm | 330 | 454 | 168 | 127 | 181 | 130 | 44 |
| 6 PVC | 22.75 | 31.125 | 11 | 7.25 | 13.25 | 11.125 | 4.375 |
| 160mm | 572 | 800 | 279 | 181 | 343 | 279 | 111 |
| 8 PVC | 22.75 | 31.125 | 11 | 9.3125 | 12.1875 | 13.75 | 5.67 |
| 200mm | 572 | 797 | 279 | 216 | 327 | 276 | 108 |
| 10 PVC | 35 | 48.5 | 18 | 11.5 | 16.99 | 13.75 | 5 |
| 12 PVC | 35 | 48.5 | 18 | 13.5 | 18 | 15.375 | 6 |

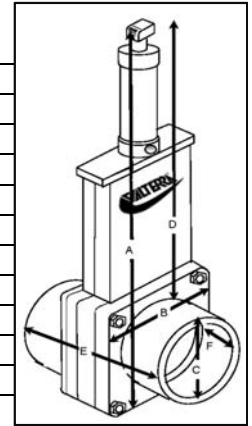


"B" Dimension is height of valve in fully open position



PNEUMATIC VALVE - ALUMINUM/STAINLESS STEEL AIR CYLINDER DIMENSIONS (Inches)(mm)

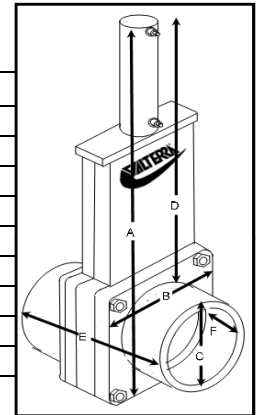
| Size | A | B | C | D | E | Air Tubing Size | Recomm. Operating Pressure | Cylinder Air Volume |
|-------|----------------|-----|------|-------|-----|-----------------|----------------------------|-----------------------|
| 2 | 12.5 | 3.5 | 2.75 | 8.5 | 3 | 1/8" | 55-70 psi | 1.209 in ³ |
| 63mm | 318 | 86 | 73 | 216 | 105 | 1/8" | 55-70 psi | 1.209 in ³ |
| 3 | 15.5 | 4.5 | 4 | 11.25 | 4.5 | 1/8" | 55-70 psi | 1.662 in ³ |
| 90mm | 394 | 111 | 105 | 286 | 133 | 1/8" | 55-70 psi | 1.662 in ³ |
| 4 | 19.5 | 6.5 | 5 | 13.25 | 5 | 1/8" | 55-70 psi | 1.742 in ³ |
| 110mm | 489 | 168 | 127 | 337 | 130 | 1/8" | 55-70 psi | 1.742 in ³ |
| 6 | In Development | | | | | | | |
| 160mm | In Development | | | | | | | |
| 8 | In Development | | | | | | | |
| 200mm | In Development | | | | | | | |
| 10 | In Development | | | | | | | |
| 12 | In Development | | | | | | | |



Note: Aluminum/SS Air Cylinders assembled with Air Restrictor - removal of restrictor voids warranty

PNEUMATIC VALVE - REINFORCED NYLON PLASTIC AIR CYLINDER DIMENSIONS (Inches)(mm)

| Size | A | B | C | D | E | Air Tubing Size | Recomm. Operating Pressure | Cylinder Air Volume |
|------|-----|-------|-------|-------|-------|-----------------------|----------------------------|-----------------------|
| 1.5 | 10 | 2.875 | 1.875 | 7.375 | 2.875 | I.D. 4 mm x O.D. 6 mm | 60-75 psi | 1.196 in ³ |
| 50mm | 254 | 76 | 64 | 187 | 98 | I.D. 4 mm x O.D. 6 mm | 60-75 psi | 1.196 in ³ |
| 2 | 11 | 3.5 | 2.75 | 8 | 3 | I.D. 4 mm x O.D. 6 mm | 60-75 psi | 1.196 in ³ |
| 63mm | 279 | 86 | 73 | 203 | 105 | I.D. 4 mm x O.D. 6 mm | 60-75 psi | 1.196 in ³ |
| 3 | 13 | 4.5 | 4 | 8.5 | 4.5 | I.D. 4 mm x O.D. 6 mm | 60-75 psi | 1.196 in ³ |
| 90mm | 330 | 111 | 105 | 216 | 133 | I.D. 4 mm x O.D. 6 mm | 60-75 psi | 1.196 in ³ |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



CEMENT

| VALVE FITTING | PIPE | SIZE | CEMENT |
|---------------|------|---------|----------------------------|
| ABS | PVC | 1.5-6" | Use IPS #794 or equivalent |
| ABS | ABS | 1.5-3" | Use IPS #771 or equivalent |
| PVC | ABS | 1.5-6" | Use IPS #794 or equivalent |
| PVC | PVC | 1.5-12" | Use IPS #717 or equivalent |

STATIC HEAD PRESSURE

| Feet Head | PSI |
|-----------|-------|
| 1 | 0.43 |
| 3 | 1.03 |
| 6 | 2.6 |
| 9 | 3.9 |
| 12 | 5.2 |
| 15 | 6.51 |
| 20 | 8.66 |
| 30 | 12.99 |
| 40 | 17.32 |
| 50 | 21.65 |

- ▶ Feet Head to PSI, multiply by 0.434
- ▶ PSI to Feet Head, multiply by 2.3

WORKING TEMPERATURE

| Material | Suggested Maximum Working Temperature | |
|----------|---------------------------------------|--------|
| ABS | 205° F | 96° C |
| PVC | 167° F | 75° C |
| PC | 280° F | 137° C |