

## KHM3L Series Automated 3 Piece Ball Valve



### Specifications

- Ball Valve 316SS body, ball and stem
- Blow out proof stem
- RPTFE seats
- PTFE seals
- Viton stem o-ring

### Temperature Range

- -30° to 400°F max

### Pressure Rating

- 1000 psi @ -30° to 100°F
- 0 psi @ 400°F

### Description

The KHM3L is a full port, 316 stainless steel, 3 piece ball valve. It is available with NPT threads or socket weld connectors.

It can be equipped with a manual handle or with direct mount pneumatic actuators.

### Features and Benefits

- Compact direct mount assembly / Saves space since there is no bracket
- High CV / Less restriction (low pressure drop)
- No stem packing to adjust / Reduces maintenance
- 3 piece design allows inline maintenance for socket weld connections

### Models Available

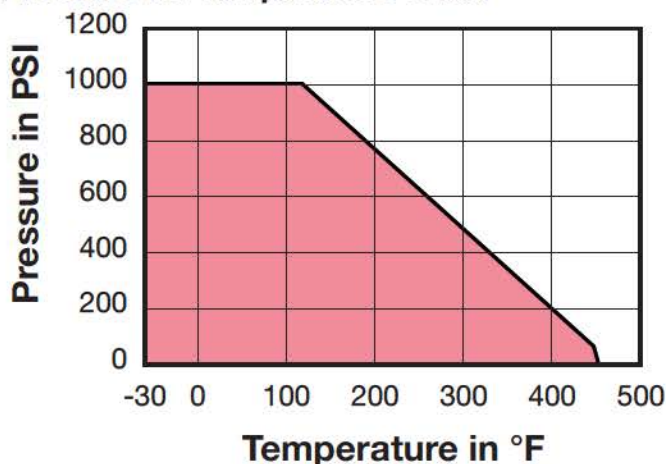
- Spring Return Actuator, normally closed
- Double Acting Actuator
- Manual Handle

### Actuators

- Compact direct mount
- Anodized aluminum actuator
- NAMUR solenoid mounting adapter
- ISO 5211 mounting standard
- Visual position indicators
- High duty cycle
- Permanent lubrication
- Pneumatic double acting and spring return
- Min 80 psi air supply required
- Pneumatic solenoid valves sold separately

Note: see page 39 - 40 for information on solenoid valves

### Pressure Vs. Temperature Chart

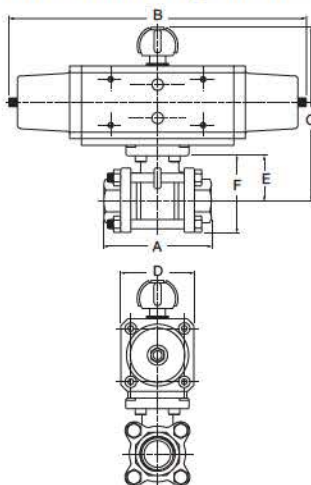


Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.  
Dimensions are in inches/(mm) and lbs./(kg.)

Model Codes containing selections listed in RED are non-standard items – Minimum quantities will apply – Contact HYDAC for information and availability

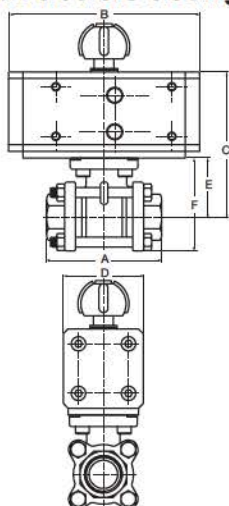
## Dimensions

### with normally closed spring return pneumatic actuator



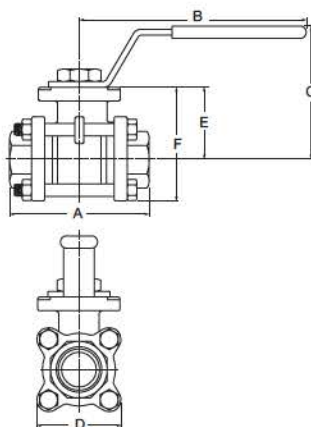
| CV  | Size   | A    | B     | C    | D    | E    | F    | Wt   | Threaded Model Code Part No.       | Socket Weld Model Code Part No.   |
|-----|--------|------|-------|------|------|------|------|------|------------------------------------|-----------------------------------|
| 13  | 1/4"   | 2.56 | 8.62  | 4.85 | 2.15 | 1.65 | 2.60 | 4.3  | KHM3L-1/4NPT-3333-NC<br>02083039   | KHM3L-1/4SW-3333-NC<br>02083042   |
| 13  | 3/8"   | 2.56 | 8.62  | 4.85 | 2.15 | 1.65 | 2.60 | 4.3  | KHM3L-3/8NPT-3333-NC<br>02083045   | KHM3L-3/8SW-3333-NC<br>02083048   |
| 23  | 1/2"   | 2.95 | 8.62  | 4.85 | 2.15 | 1.65 | 2.60 | 4.3  | KHM3L-1/2NPT-3333-NC<br>02083051   | KHM3L-1/2SW-3333-NC<br>02083054   |
| 70  | 3/4"   | 3.15 | 9.36  | 5.36 | 2.54 | 1.77 | 2.75 | 6.2  | KHM3L-3/4NPT-3333-NC<br>02083057   | KHM3L-3/4SW-3333-NC<br>02083060   |
| 116 | 1"     | 3.54 | 11.47 | 5.99 | 2.81 | 2.05 | 3.32 | 8.4  | KHM3L-1NPT-3333-NC<br>02083063     | KHM3L-1SW-3333-NC<br>02083066     |
| 151 | 1 1/4" | 4.33 | 11.47 | 6.22 | 2.81 | 2.28 | 3.68 | 9.4  | KHM3L-1 1/4NPT-3333-NC<br>02083069 | KHM3L-1 1/4SW-3333-NC<br>02083072 |
| 197 | 1 1/2" | 4.72 | 12.48 | 7.32 | 3.12 | 2.68 | 4.30 | 14.3 | KHM3L-1 1/2NPT-3333-NC<br>02083075 | KHM3L-1 1/2SW-3333-NC<br>02083078 |
| 325 | 2"     | 5.51 | 13.92 | 8.10 | 3.51 | 3.07 | 4.85 | 20.1 | KHM3L-2NPT-3333-NC<br>02083081     | KHM3L-2SW-3333-NC<br>02083084     |

### with double acting pneumatic actuator



| CV  | Size   | A    | B    | C    | D    | E    | F    | Wt   | Threaded Model Code Part No.       | Socket Weld Model Code Part No.   |
|-----|--------|------|------|------|------|------|------|------|------------------------------------|-----------------------------------|
| 13  | 1/4"   | 2.56 | 5.07 | 4.85 | 2.15 | 1.65 | 2.60 | 3.5  | KHM3L-1/4NPT-3333-DA<br>02083040   | KHM3L-1/4SW-3333-DA<br>02083043   |
| 13  | 3/8"   | 2.56 | 5.07 | 4.85 | 2.15 | 1.65 | 2.60 | 3.5  | KHM3L-3/8NPT-3333-DA<br>02083046   | KHM3L-3/8SW-3333-DA<br>02083049   |
| 23  | 1/2"   | 2.95 | 5.07 | 4.85 | 2.15 | 1.65 | 2.60 | 3.6  | KHM3L-1/2NPT-3333-DA<br>02083052   | KHM3L-1/2SW-3333-DA<br>02083055   |
| 70  | 3/4"   | 3.15 | 5.07 | 4.97 | 2.15 | 1.77 | 2.75 | 3.9  | KHM3L-3/4NPT-3333-DA<br>02083058   | KHM3L-3/4SW-3333-DA<br>02083061   |
| 116 | 1"     | 3.54 | 5.62 | 5.48 | 2.34 | 2.05 | 3.32 | 5.9  | KHM3L-1NPT-3333-DA<br>02083064     | KHM3L-1SW-3333-DA<br>02083067     |
| 151 | 1 1/4" | 4.33 | 5.62 | 5.71 | 2.34 | 2.28 | 3.68 | 7.2  | KHM3L-1 1/4NPT-3333-DA<br>02083070 | KHM3L-1 1/4SW-3333-DA<br>02083073 |
| 197 | 1 1/2" | 4.72 | 6.59 | 6.62 | 2.81 | 2.68 | 4.30 | 10.1 | KHM3L-1 1/2NPT-3333-DA<br>02083076 | KHM3L-1 1/2SW-3333-DA<br>02083079 |
| 325 | 2"     | 5.51 | 6.59 | 7.01 | 2.81 | 3.07 | 4.85 | 13.5 | KHM3L-2NPT-3333-DA<br>02083082     | KHM3L-2SW-3333-DA<br>02083085     |

### with manual handle



| CV  | Size   | A    | B    | C    | D    | E    | F    | Wt   | Threaded Model Code Part No.    | Socket Weld Model Code Part No. |
|-----|--------|------|------|------|------|------|------|------|---------------------------------|---------------------------------|
| 13  | 1/4"   | 2.56 | 4.80 | 3.11 | 1.92 | 1.65 | 2.60 | 1.5  | KHM3L-1/4NPT-3333<br>02083038   | KHM3L-1/4SW-3333<br>02083041    |
| 13  | 3/8"   | 2.56 | 4.80 | 3.11 | 1.92 | 1.65 | 2.60 | 1.5  | KHM3L-3/8NPT-3333<br>02083044   | KHM3L-3/8SW-3333<br>02083047    |
| 23  | 1/2"   | 2.95 | 4.80 | 3.23 | 1.92 | 1.65 | 2.60 | 1.5  | KHM3L-1/2NPT-3333<br>02083050   | KHM3L-1/2SW-3333<br>02083053    |
| 70  | 3/4"   | 3.15 | 4.80 | 3.35 | 1.98 | 1.77 | 2.75 | 1.7  | KHM3L-3/4NPT-3333<br>02083056   | KHM3L-3/4SW-3333<br>02083059    |
| 116 | 1"     | 3.54 | 7.48 | 3.74 | 2.52 | 2.05 | 3.32 | 3.1  | KHM3L-1NPT-3333<br>02083062     | KHM3L-1SW-3333<br>02083065      |
| 151 | 1 1/4" | 4.33 | 7.48 | 3.94 | 2.89 | 2.28 | 3.68 | 4.4  | KHM3L-1 1/4NPT-3333<br>02083068 | KHM3L-1 1/4SW-3333<br>02083071  |
| 197 | 1 1/2" | 4.72 | 8.07 | 4.41 | 3.23 | 2.68 | 4.30 | 6.7  | KHM3L-1 1/2NPT-3333<br>02083074 | KHM3L-1 1/2SW-3333<br>02083077  |
| 325 | 2"     | 5.51 | 8.07 | 4.76 | 3.71 | 3.07 | 4.85 | 10.0 | KHM3L-2NPT-3333<br>02083080     | KHM3L-2SW-3333<br>02083083      |

Note: Actuators are sized for 300 psi ΔP

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