# Metric Size
# R(PT) Thread Type

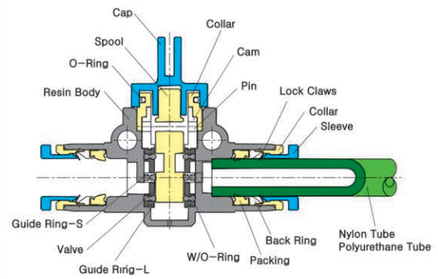


# HAND VALVES

### Application
- Used for turning air pressure on and off for pneumatic devices.

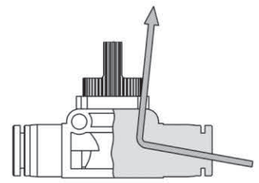
### Feature
- When off, the three-way direction control valve discharges the residual pressure and blocks air flow-in.

### Structural Diagram




### Specification

| | | |
|---|---|---|
| Fluid | Air(No other gases or liquids) | |
| Working Pressure Range | 0~284PSI | 0~20Kgf/㎠(0~1960kPa) |
| Negative Pressure | -29.5 in Hg | -750mmHg(10Torr) |
| Temperature Range | 32~176° F | 0~80° C |
| Applicable Tube Material | Polyurethane and Nylon | |



### ▶3 Way Direction, 2 Way Direction
- The three-way direction control valve, when the air is stopped, discharges residual pressure to the outlet, which assures safety in repairing or adjusting connected devices.
- The two-way direction control valve does not discharge residual pressure, and is suitable for a reservoir tank or other device that does not require a discharging residual pressure.
- The two-way direction control valve is also suitable for the system where a vacuum pipe is used.

### Product Code System

GHVFS 06 - 01
① ② ③

① Type

② Tube Dia(ØD)

| Code | 04 | 06 | 08 | 10 | 12 |
|---|---|---|---|---|---|
| Dia | Ø4 | Ø6 | Ø8 | Ø10 | Ø12 |

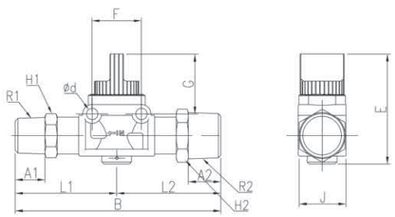
③ Thread Size(T)

| | Taper Pipe Thread | | | |
|---|---|---|---|---|
| Code | 01 | 02 | 03 | 04 |
| Size | R1/8 | R1/4 | R3/8 | R1/2 |

**⚠ CAUTION**
- Be sure to read the "Common Precautions" and "Using Precautions of Fitting Series"(P12) before using.
- When operating handle, turn at a right angle(90°), otherwise it may cause a shortage of fluid.

# GHVSS

Nipple

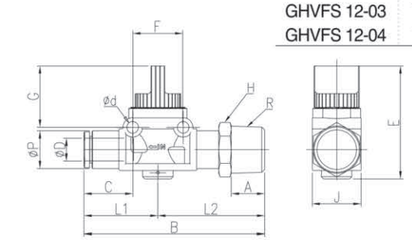




MODEL[ØD-T] Tube(Metric)–Thread(R)

| MODEL | A1 | A2 | L1 | L2 | B | E | J | F | H1 | H2 | R1 | R2 | Ød | G | W.G(g) | Q'ty/ InBox |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GHVSS 01-01 | 8 | 8 | 35 | 35 | 70 | 40.7 | 17.56 | 18.2 | 13 | 13 | R1/8 | R1/8 | 4.2 | 22.2 | 35.6 | 25 |
| GHVSS 02-01 | 11 | 8 | 37.5 | 35 | 72.5 | 40.7 | 17.6 | 18.2 | 14 | 13 | R1/4 | R1/8 | 4.2 | 22.2 | 39.8 | 25 |
| GHVSS 02-02 | 11 | 11 | 37.5 | 37.5 | 75 | 40.7 | 17.6 | 18.2 | 14 | 14 | R1/4 | R1/4 | 4.2 | 22.2 | 44 | 25 |
| GHVSS 03-02 | 12 | 11 | 42.5 | 40.5 | 83 | 40.9 | 21.2 | 24 | 17 | 17 | R3/8 | R1/4 | 4.2 | 20.1 | 63.6 | 20 |
| GHVSS 03-03 | 12 | 12 | 42.5 | 42.5 | 85 | 40.9 | 21.2 | 24 | 17 | 17 | R3/8 | R3/8 | 4.2 | 20.1 | 68.7 | 20 |
| GHVSS 04-03 | 15 | 12 | 45.5 | 42.5 | 88 | 40.9 | 21.2 | 24 | 21 | 17 | R1/2 | R3/8 | 4.2 | 20.1 | 85.9 | 20 |
| GHVSS 04-04 | 15 | 15 | 45.5 | 45.5 | 91 | 40.9 | 21.2 | 24 | 21 | 21 | R1/2 | R1/2 | 4.2 | 20.1 | 103.1 | 20 |

# GHVFS

Straight Fitting Thread


MODEL[ØD-T] Tube(Metric)–Thread(R)

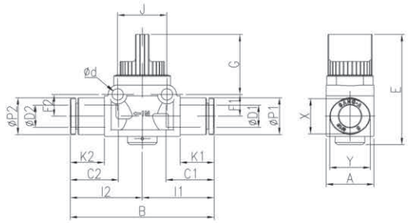
| MODEL | ØD | ØP | C | L1 | L2 | A | B | G | F | H | R | Ød | E | J | W.G(g) | Q'ty/ InBox |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GHVFS 04-01 | 4 | 9 | 14.5 | 31 | 21.6 | 8 | 52.6 | 22.2 | 18.2 | 10 | R1/8 | 4.2 | 40.7 | 17.6 | 20.1 | 25 |
| GHVFS 04-02 | 4 | 9 | 14.5 | 34 | 21.6 | 11 | 55.6 | 22.2 | 18.2 | 14 | R1/4 | 4.2 | 40.7 | 17.6 | 28.2 | 25 |
| GHVFS 04-03 | 4 | 9 | 14.5 | 35 | 21.6 | 12 | 56.6 | 22.2 | 18.2 | 17 | R3/8 | 4.2 | 40.7 | 17.6 | 35.7 | 25 |
| GHVFS 06-01 | 6 | 11.2 | 15.5 | 33.5 | 24.5 | 8 | 58 | 22.2 | 18.2 | 11 | R1/8 | 4.2 | 40.7 | 17.6 | 22.7 | 25 |
| GHVFS 06-02 | 6 | 11.2 | 15.5 | 36.5 | 24.5 | 11 | 61 | 22.2 | 18.2 | 14 | R1/4 | 4.2 | 40.7 | 17.6 | 29.9 | 25 |
| GHVFS 06-03 | 6 | 11.2 | 15.5 | 37.5 | 24.5 | 12 | 62 | 22.2 | 18.2 | 17 | R3/8 | 4.2 | 40.7 | 17.6 | 37.9 | 25 |
| GHVFS 08-01 | 8 | 13.6 | 17.8 | 35 | 26.6 | 8 | 61.6 | 22.2 | 18.2 | 13 | R1/8 | 4.2 | 40.7 | 17.6 | 26.6 | 25 |
| GHVFS 08-02 | 8 | 13.6 | 17.8 | 37.5 | 26.6 | 11 | 64.1 | 22.2 | 18.2 | 14 | R1/4 | 4.2 | 40.7 | 17.6 | 30.8 | 25 |
| GHVFS 08-03 | 8 | 13.6 | 17.8 | 38.5 | 26.6 | 12 | 65.1 | 22.2 | 18.2 | 17 | R3/8 | 4.2 | 40.7 | 17.6 | 38.3 | 25 |
| GHVFS 10-02 | 10 | 16.3 | 19.4 | 40.5 | 30.5 | 11 | 71 | 20.1 | 24 | 17 | R1/4 | 4.2 | 40.9 | 21.2 | 42.5 | 20 |
| GHVFS 10-03 | 10 | 16.3 | 19.4 | 42.5 | 30.5 | 12 | 73 | 20.1 | 24 | 17 | R3/8 | 4.2 | 40.9 | 21.2 | 47.6 | 20 |
| GHVFS 10-04 | 10 | 16.3 | 19.4 | 45.5 | 30.5 | 15 | 76 | 20.1 | 24 | 21 | R1/2 | 4.2 | 40.9 | 21.2 | 64.8 | 20 |
| GHVFS 12-02 | 12 | 19.7 | 22.4 | 42.5 | 33.4 | 11 | 75.9 | 20.1 | 24 | 19 | R1/4 | 4.2 | 40.9 | 21.2 | 52.1 | 20 |
| GHVFS 12-03 | 12 | 19.7 | 22.4 | 44.5 | 33.4 | 12 | 77.9 | 20.1 | 24 | 19 | R3/8 | 4.2 | 40.9 | 21.2 | 57.3 | 20 |
| GHVFS 12-04 | 12 | 19.7 | 22.4 | 47.5 | 33.4 | 15 | 80.9 | 20.1 | 24 | 21 | R1/2 | 4.2 | 40.9 | 21.2 | 71.3 | 20 |





# GHVFF

Union Straight

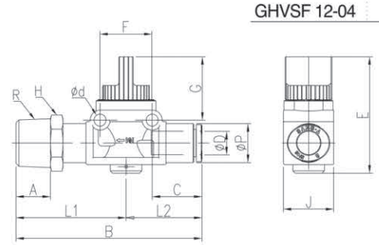




MODEL[ØD-T] Tube(Metric)–Thread(R)

| MODEL | ØD1 | ØD2 | ØP1 | ØP2 | A | B | C1 | C2 | E | F1 | F2 | G | 11 | 12 | J | K1 | K2 | Ød | X | Y | W.G(g) | Q'ty/ InBox |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GHVFF 04-04 | 4 | 4 | 9 | 9 | 17.6 | 43.2 | 14.5 | 14.5 | 40.7 | 10.3 | 5.7 | 22.2 | 21.6 | 21.6 | 18.2 | 7.6 | 7.6 | 4.2 | 8.6 | 10.8 | 14 | 25 |
| GHVFF 06-06 | 6 | 6 | 11.2 | 11.2 | 17.6 | 48.9 | 15.5 | 15.5 | 40.7 | 8 | 8 | 22.2 | 24.5 | 24.5 | 18.2 | 10.5 | 10.5 | 4.2 | 11 | 13 | 15.6 | 25 |
| GHVFF 08-08 | 8 | 8 | 13.6 | 13.6 | 17.6 | 53.2 | 17.8 | 17.8 | 40.7 | 8 | 8 | 22.2 | 26.6 | 26.6 | 18.2 | 12.6 | 12.6 | 4.2 | 13 | 15 | 17.6 | 25 |
| GHVFF 10-10 | 10 | 10 | 16.3 | 16.3 | 21.2 | 61 | 19.4 | 19.4 | 40.9 | 10.1 | 10.1 | 20.1 | 30.5 | 30.5 | 24 | 13.5 | 13.5 | 4.2 | 16 | 18.5 | 26.5 | 20 |
| GHVFF 12-12 | 12 | 12 | 19.7 | 19.7 | 21.2 | 66.8 | 22.4 | 22.4 | 40.9 | 10.1 | 10.1 | 20.1 | 33.4 | 33.4 | 24 | 16.4 | 16.4 | 4.2 | 19.5 | 22.5 | 33 | 16 |

# GHVSF

Straight Thread-Fitting


MODEL[ØD-T] Tube(Metric)–Thread(R)

| MODEL | ØD | ØP | C | L1 | L2 | A | B | G | F | H | R | Ød | E | J | W.G(g) | Q'ty/ InBox |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GHVSF 04-01 | 4 | 9 | 14.5 | 21.6 | 31 | 8 | 52.6 | 22.2 | 18.2 | 10 | R1/8 | 4.2 | 40.7 | 17.6 | 20.1 | 25 |
| GHVSF 04-02 | 4 | 9 | 14.5 | 21.6 | 34 | 11 | 55.6 | 22.2 | 18.2 | 14 | R1/4 | 4.2 | 40.7 | 17.6 | 28.2 | 25 |
| GHVSF 04-03 | 4 | 9 | 14.5 | 21.6 | 35 | 12 | 56.6 | 22.2 | 18.2 | 17 | R3/8 | 4.2 | 40.7 | 17.6 | 35.7 | 25 |
| GHVSF 06-01 | 6 | 11.2 | 15.5 | 24.5 | 33.5 | 8 | 58 | 22.2 | 18.2 | 11 | R1/8 | 4.2 | 40.7 | 17.6 | 22.7 | 25 |
| GHVSF 06-02 | 6 | 11.2 | 15.5 | 24.5 | 36.5 | 11 | 61 | 22.2 | 18.2 | 14 | R1/4 | 4.2 | 40.7 | 17.6 | 29.9 | 25 |
| GHVSF 06-03 | 6 | 11.2 | 15.5 | 24.5 | 37.5 | 12 | 62 | 22.2 | 18.2 | 17 | R3/8 | 4.2 | 40.7 | 17.6 | 37.9 | 25 |
| GHVSF 08-01 | 8 | 13.6 | 17.8 | 26.6 | 35 | 8 | 61.6 | 22.2 | 18.2 | 13 | R1/8 | 4.2 | 40.7 | 17.6 | 26.6 | 25 |
| GHVSF 08-02 | 8 | 13.6 | 17.8 | 26.6 | 37.5 | 11 | 64.1 | 22.2 | 18.2 | 14 | R1/4 | 4.2 | 40.7 | 17.6 | 30.8 | 25 |
| GHVSF 08-03 | 8 | 13.6 | 17.8 | 26.6 | 38.5 | 12 | 65.1 | 22.2 | 18.2 | 17 | R3/8 | 4.2 | 40.7 | 17.6 | 38.3 | 25 |
| GHVSF 10-02 | 10 | 16.3 | 19.4 | 30.5 | 40.5 | 11 | 71 | 20.1 | 24 | 17 | R1/4 | 4.2 | 40.9 | 21.2 | 42.5 | 20 |
| GHVSF 10-03 | 10 | 16.3 | 19.4 | 30.5 | 42.5 | 12 | 73 | 20.1 | 24 | 17 | R3/8 | 4.2 | 40.9 | 21.2 | 47.6 | 20 |
| GHVSF 10-04 | 10 | 16.3 | 19.4 | 30.5 | 45.5 | 15 | 76 | 20.1 | 24 | 21 | R1/2 | 4.2 | 40.9 | 21.2 | 64.8 | 20 |
| GHVSF 12-02 | 12 | 19.7 | 22.4 | 33.4 | 42.5 | 11 | 75.9 | 20.1 | 24 | 19 | R1/4 | 4.2 | 40.9 | 21.2 | 52.1 | 20 |
| GHVSF 12-03 | 12 | 19.7 | 22.4 | 33.4 | 44.5 | 12 | 77.9 | 20.1 | 24 | 19 | R3/8 | 4.2 | 40.9 | 21.2 | 57.3 | 20 |
| GHVSF 12-04 | 12 | 19.7 | 22.4 | 33.4 | 47.5 | 15 | 80.9 | 20.1 | 24 | 21 | R1/2 | 4.2 | 40.9 | 21.2 | 71.3 | 20 |

# Metric Size
## R(PT) Thread Type



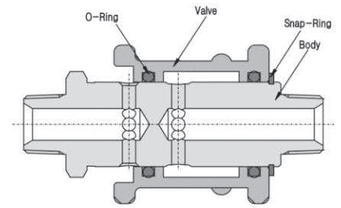


# HAND SLIDE VALVES

### Application
- Used for turning air pressure on and off for pneumatic devices.

### Feature
- Made of brass or aluminum for a long life-span.

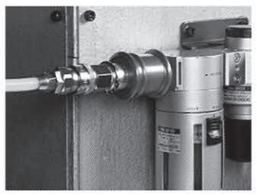
### Structural Diagram




### Specification

| | | |
|---|---|---|
| Fluid | Air(No other gases or liquids) | |
| Working Pressure Range | 0~150PSI | 0~9Kgf/㎠(0~900kPa) |
| Negative Pressure | -29.50 in Hg | -750mmHg(10Torr) |
| Temperature Range | 32~140° F | 0~60°C |
| Applicable Tube Material | Polyurethane and Nylon | |

### Case In Use



### Product Code System

HSV M - 01
① ② ③

① Type

② Connection size

| Code | M | H | | | P |
|---|---|---|---|---|---|
| | | H20 | H30 | H40 | |
| Dia | ③참조 | Ø9 | Ø11 | Ø15 | Ace Coupler의 접속용 Plug |

③ Thread Size(T)

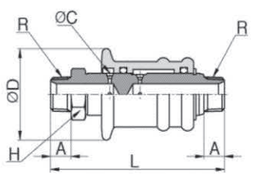
| Code | M5 | M6 | 01 | 02 | 03 | 04 | 06 |
|---|---|---|---|---|---|---|---|
| Size | M5×0.8 | M6×1.0 | R1/8 | R1/4 | R3/8 | R1/2 | R3/4 |

**⚠ CAUTION**
- Be sure to read the "Common Precautions" and "Using Precautions of Fitting series"(P12) before using.
- If valve is not open enough, it causes a shortage of air or fluid.

**⚠ WARNING**
- Use after confirming the direction of air flow. When use in the wrong air flow direction, it may cause damage.
- When repairing or checking the machine, be sure to turn the electricity or air off, and secure to check that residual pressure is at zero.

# HSV(M)

Nipple Slide Type


**MODEL[ØD-T]** Tube(Metric)–Thread(R)

| MODEL | ØD | L | A | R | ØC | H | Orifice (mm) | W.G(g) | Qty/Inbox |
|---|---|---|---|---|---|---|---|---|---|
| HSV M-M5 | 20 | 45 | 4.5 | M5 | 1.4 | 9 | 2.4 | 22.9 | 50 |
| HSV M-01 | 24 | 53.6 | 7.5 | R1/8 | 1.4 | 14 | 4.5 | 45.4 | 25 |
| HSV M-02 | 35 | 71.9 | 8.5 | R1/4 | 3.3 | 17 | 8 | 112.3 | 12 |
| HSV M-03 | 45 | 83 | 11 | R3/8 | 3.8 | 26 | 9 | 180 | 6 |
| HSV M-04 | 45 | 85 | 12 | R1/2 | 3.8 | 26 | 13 | 259.6 | 6 |
| HSV M-06 | 50 | 103 | 14 | R3/4 | 6.9 | 32 | 19 | 400.4 | 3 |

# Metric Size
# G(PF) Thread Type



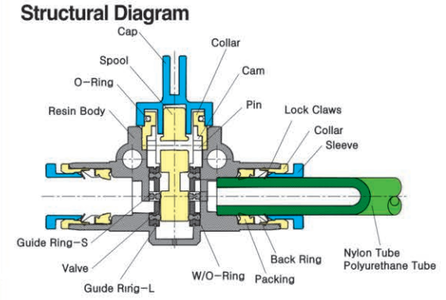


# HAND VALVES

### Application
- Used for turning air pressure on and off for pneumatic devices.

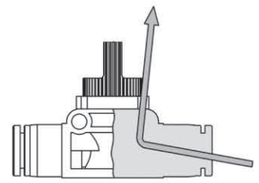
### Feature
- When off, the three-way direction control valve discharges the residual pressure and blocks air flow-in.

### Structural Diagram




### Specification

| | | |
|---|---|---|
| Fluid | Air(No other gases or liquids) | |
| Working Pressure Range | 0~284PSI | 0~20Kgf/㎠(0~1960kPa) |
| Negative Pressure | -29.5 in Hg | -750mmHg(10Torr) |
| Temperature Range | 32~176° F | 0~80° C |
| Applicable Tube Material | Polyurethane and Nylon | |



### ▶3 Way Direction, 2 Way Direction
- The three-way direction control valve, when the air is stopped, discharges residual pressure to the outlet, which assures safety in repairing or adjusting connected devices.
- The two-way direction control valve does not discharge residual pressure, and is suitable for a reservoir tank or other device that does not require a discharging residual pressure.
- The two-way direction control valve is also suitable for the system where a vacuum pipe is used.

### Product Code System

GHVFS 06 - G01
① ② ③

① Type

② Tube Dia(ØD)

| Code | 04 | 06 | 08 | 10 | 12 |
|---|---|---|---|---|---|
| Dia | Ø4 | Ø6 | Ø8 | Ø10 | Ø12 |

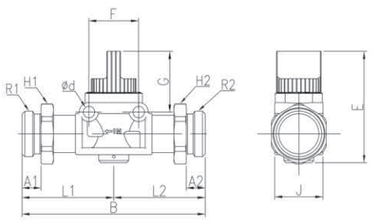
③ Thread Size(T)

| | Taper Pipe Thread | | | |
|---|---|---|---|---|
| Code | G01 | G02 | G03 | G04 |
| Size | R1/8 | R1/4 | R3/8 | R1/2 |

**⚠ CAUTION**
- Be sure to read the "Common Precautions" and "Using Precautions of Fitting Series"(P12) before using.
- When operating handle, turn at a right angle(90°), otherwise it may cause a shortage of fluid.

## GHVSS-G

Nipple

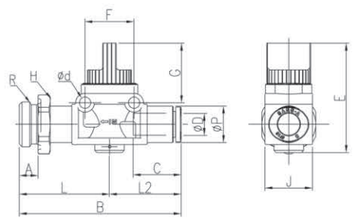




MODEL[ØD-T] Tube(Metric)–Thread(G )

| MODEL | A1 | A2 | L1 | L2 | B | E | J | F | H1 | H2 | R1 | R2 | Ød | G | W.G(g) | Qty/Inbox |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GHVSS G01-G01 | 5.3 | 5.3 | 31.3 | 31.3 | 62.6 | 40.7 | 17.56 | 18.2 | 13 | 13 | G1/8 | G1/8 | 4.2 | 22.2 | 29.8 | 25 |
| GHVSS G02-G01 | 6 | 5.3 | 32.5 | 31.3 | 63.8 | 40.7 | 17.6 | 18.2 | 16 | 13 | G1/4 | G1/8 | 4.2 | 22.2 | 34.1 | 25 |
| GHVSS G02-G02 | 6 | 6 | 32.5 | 32.5 | 65 | 40.7 | 17.6 | 18.2 | 16 | 16 | G1/4 | G1/4 | 4.2 | 22.2 | 38.4 | 25 |
| GHVSS G03-G02 | 7 | 6 | 37.5 | 39 | 76.5 | 40.9 | 21.2 | 24 | 20 | 16 | G3/8 | G1/4 | 4.2 | 20.1 | 60 | 20 |
| GHVSS G03-G03 | 7 | 7 | 37.5 | 37.5 | 75 | 40.9 | 21.2 | 24 | 20 | 20 | G3/8 | G3/8 | 4.2 | 20.1 | 60.7 | 20 |
| GHVSS G04-G03 | 8.5 | 7 | 39 | 37.5 | 76.5 | 40.9 | 21.2 | 24 | 24 | 20 | G1/2 | G3/8 | 4.2 | 20.1 | 74.1 | 20 |
| GHVSS G04-G04 | 8.5 | 8.5 | 39 | 39 | 78 | 40.9 | 21.2 | 24 | 24 | 24 | G1/2 | G1/2 | 4.2 | 20.1 | 87.5 | 20 |

## GHVSF-G

Straight G Thread-Fitting

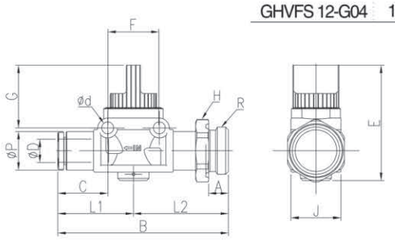




MODEL[ØD-T] Tube(Metric)–Thread(G )

| MODEL | ØD | ØP | C | L1 | L2 | A | B | G | F | H | R | Ød | E | J | W.G(g) | Qty/Inbox |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GHVSF 04-01 | 4 | 9 | 14.5 | 27.8 | 21.6 | 5.3 | 49.4 | 22.2 | 18.2 | 10 | G1/8 | 4.2 | 40.7 | 17.6 | 20.2 | 25 |
| GHVSF 04-02 | 4 | 9 | 14.5 | 28.5 | 21.6 | 6 | 50.1 | 22.2 | 18.2 | 14 | G1/4 | 4.2 | 40.7 | 17.6 | 24.5 | 25 |
| GHVSF 04-03 | 4 | 9 | 14.5 | 30 | 21.6 | 7 | 51.6 | 22.2 | 18.2 | 17 | G3/8 | 4.2 | 40.7 | 17.6 | 31.5 | 25 |
| GHVSF 06-01 | 6 | 11.2 | 15.5 | 30.3 | 24.5 | 5.3 | 54.8 | 22.2 | 18.2 | 11 | G1/8 | 4.2 | 40.7 | 17.6 | 21.8 | 25 |
| GHVSF 06-02 | 6 | 11.2 | 15.5 | 31 | 24.5 | 6 | 55.5 | 22.2 | 18.2 | 14 | G1/4 | 4.2 | 40.7 | 17.6 | 26.2 | 25 |
| GHVSF 06-03 | 6 | 11.2 | 15.5 | 32.5 | 24.5 | 7 | 57 | 22.2 | 18.2 | 17 | G3/8 | 4.2 | 40.7 | 17.6 | 32.9 | 25 |
| GHVSF 08-01 | 8 | 13.6 | 17.8 | 31.3 | 26.6 | 5.3 | 57.9 | 22.2 | 18.2 | 13 | G1/8 | 4.2 | 40.7 | 17.6 | 23.7 | 25 |
| GHVSF 08-02 | 8 | 13.6 | 17.8 | 32.5 | 26.6 | 6 | 59.1 | 22.2 | 18.2 | 14 | G1/4 | 4.2 | 40.7 | 17.6 | 28 | 25 |
| GHVSF 08-03 | 8 | 13.6 | 17.8 | 33.5 | 26.6 | 7 | 60.1 | 22.2 | 18.2 | 17 | G3/8 | 4.2 | 40.7 | 17.6 | 33.9 | 25 |
| GHVSF 10-02 | 10 | 16.3 | 19.4 | 39 | 30.5 | 6 | 69.5 | 20.1 | 24 | 17 | G1/4 | 4.2 | 40.9 | 21.2 | 42.8 | 20 |
| GHVSF 10-03 | 10 | 16.3 | 19.4 | 37.5 | 30.5 | 7 | 68 | 20.1 | 24 | 17 | G3/8 | 4.2 | 40.9 | 21.2 | 43.6 | 20 |
| GHVSF 10-04 | 10 | 16.3 | 19.4 | 39 | 30.5 | 8.5 | 69.5 | 20.1 | 24 | 21 | G1/2 | 4.2 | 40.9 | 21.2 | 57 | 20 |
| GHVSF 12-02 | 12 | 19.7 | 22.4 | 41 | 33.4 | 6 | 74.4 | 20.1 | 24 | 19 | G1/4 | 4.2 | 40.9 | 21.2 | 54.4 | 20 |
| GHVSF 12-03 | 12 | 19.7 | 22.4 | 39.5 | 33.4 | 7 | 72.9 | 20.1 | 24 | 19 | G3/8 | 4.2 | 40.9 | 21.2 | 51 | 20 |
| GHVSF 12-04 | 12 | 19.7 | 22.4 | 41 | 33.4 | 8.5 | 74.4 | 20.1 | 24 | 21 | G1/2 | 4.2 | 40.9 | 21.2 | 66 | 20 |

## GHVFS-G

Straight Fitting-G Thread


MODEL[ØD-T] Tube(Metric)–Thread(G )

| MODEL | ØD | ØP | C | L1 | L2 | A | B | G | F | H | R | Ød | E | J | W.G(g) | Qty/Inbox |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GHVFS 04-G01 | 4 | 9 | 14.5 | 21.6 | 27.8 | 5.3 | 49.4 | 22.2 | 18.2 | 10 | G1/8 | 4.2 | 40.7 | 17.6 | 20.2 | 25 |
| GHVFS 04-G02 | 4 | 9 | 14.5 | 21.6 | 28.5 | 6 | 50.1 | 22.2 | 18.2 | 14 | G1/4 | 4.2 | 40.7 | 17.6 | 24.5 | 25 |
| GHVFS 04-G03 | 4 | 9 | 14.5 | 21.6 | 30 | 7 | 51.6 | 22.2 | 18.2 | 17 | G3/8 | 4.2 | 40.7 | 17.6 | 31.5 | 25 |
| GHVFS 06-G01 | 6 | 11.2 | 15.5 | 24.5 | 30.3 | 5.3 | 54.8 | 22.2 | 18.2 | 11 | G1/8 | 4.2 | 40.7 | 17.6 | 21.8 | 25 |
| GHVFS 06-G02 | 6 | 11.2 | 15.5 | 24.5 | 31 | 6 | 55.5 | 22.2 | 18.2 | 14 | G1/4 | 4.2 | 40.7 | 17.6 | 26.2 | 25 |
| GHVFS 06-G03 | 6 | 11.2 | 15.5 | 24.5 | 32.5 | 7 | 57 | 22.2 | 18.2 | 17 | G3/8 | 4.2 | 40.7 | 17.6 | 32.9 | 25 |
| GHVFS 08-G01 | 8 | 13.6 | 17.8 | 26.6 | 31.3 | 5.3 | 57.9 | 22.2 | 18.2 | 13 | G1/8 | 4.2 | 40.7 | 17.6 | 23.7 | 25 |
| GHVFS 08-G02 | 8 | 13.6 | 17.8 | 26.6 | 32.5 | 6 | 59.1 | 22.2 | 18.2 | 14 | G1/4 | 4.2 | 40.7 | 17.6 | 28 | 25 |
| GHVFS 08-G03 | 8 | 13.6 | 17.8 | 26.6 | 33.5 | 7 | 60.1 | 22.2 | 18.2 | 17 | G3/8 | 4.2 | 40.7 | 17.6 | 33.9 | 25 |
| GHVFS 10-G02 | 10 | 16.3 | 19.4 | 30.5 | 39 | 6 | 69.5 | 20.1 | 24 | 17 | G1/4 | 4.2 | 40.9 | 21.2 | 42.8 | 20 |
| GHVFS 10-G03 | 10 | 16.3 | 19.4 | 30.5 | 37.5 | 7 | 68 | 20.1 | 24 | 17 | G3/8 | 4.2 | 40.9 | 21.2 | 43.6 | 20 |
| GHVFS 10-G04 | 10 | 16.3 | 19.4 | 30.5 | 39 | 8.5 | 69.5 | 20.1 | 24 | 21 | G1/2 | 4.2 | 40.9 | 21.2 | 57 | 20 |
| GHVFS 12-G02 | 12 | 19.7 | 22.4 | 33.4 | 41 | 6 | 74.4 | 20.1 | 24 | 19 | G1/4 | 4.2 | 40.9 | 21.2 | 54.4 | 20 |
| GHVFS 12-G03 | 12 | 19.7 | 22.4 | 33.4 | 39.5 | 7 | 72.9 | 20.1 | 24 | 19 | G3/8 | 4.2 | 40.9 | 21.2 | 51 | 20 |
| GHVFS 12-G04 | 12 | 19.7 | 22.4 | 33.4 | 41 | 8.5 | 74.4 | 20.1 | 24 | 21 | G1/2 | 4.2 | 40.9 | 21.2 | 66 | 20 |