

GasFlo Products QSL Series Valves provide quarter turn, positive shut off for critical gas/fluid systems. The Lever handle and multi port collar design allows for visual open/closed indication and simple lever reorientation when required. This springless diaphragm valve offers superior leak integrity for Specialty Gas, Chemical, Instrumentation, Semiconductor, Medical and general purpose applications with pressure ranges from vacuum to 3500 psig.

### FEATURES

- BAR STOCK CONSTRUCTION
- QUARTER TURN LEVER HANDLE
- ADJUSTABLE HANDLE ORIENTATION
- OPEN/CLOSE POSITION INDICATOR RING
- SPRINGLESS DESIGN
- METAL DIAPHRAGM SEALED
- POSITIVE SHUT-OFF
- QUICK ACTING OPEN TO CLOSE
- LOW INTERNAL VOLUME
- HIGH CYCLE LIFE
- LEAK TEST PORT
- ULTRASONICALLY DI CLEANED
- 100% HELIUM LEAK TESTED
- STANDARD BOTTOM MOUNT DESIGN
- AVAILABLE WITH PANEL MOUNT OPTION
- AVAILABLE WITH ELECTROPOLISHED ID SURFACE
- CUSTOM MATERIALS AND CONFIGURATIONS AVAILABLE

### MATERIALS OF CONSTRUCTION

- BODY OPTIONS:  
BRASS, NICKEL PLATED BRASS, 316L STAINLESS STEEL, MONEL R405, OR ALUMINUM SILICON BRONZE
- SEAT OPTIONS:  
PCTFE OR POLYIMIDE
- WETTED DIAPHRAGM:  
316L STAINLESS STEEL
- BONNET NUT:  
303 STAINLESS STEEL
- STEM:  
416 STAINLESS STEEL
- HANDLE:  
CLEAR ANAODIZED ALUMINUM  
CUSTOM COLORS AVAILABLE ON REQUEST
- LABELS:  
VINYL/MYLAR

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### APPLICATIONS

- GAS/FLUID CONTROL PANELS
- MANIFOLD SYSTEMS
- SAMPLING SYSTEMS
- GAS ANALYZERS
- VALVE MANIFOLD BOXES
- GENERAL SHUT-OFF

### END CONNECTION OPTIONS

- 1/4" MALE AND 1/4" FEMALE PIPE THREAD
- 1/4" COMPRESSION
- 1/4" AND 3/8" TUBE SOCKET WELD
- 1/4" PIPE SOCKET WELD
- 1/4 MALE AND 1/4 FEMALE FACE SEAL
- 1/4" AND 3/8" ORBITAL TUBE WELD
- CUSTOM CONNECTIONS

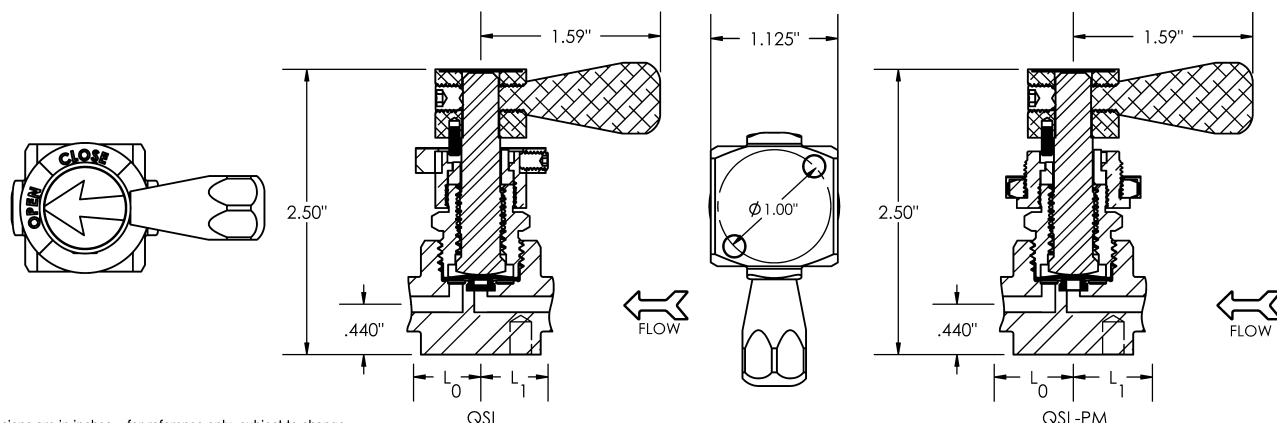


VLV-QSL-2016 REV. A

19 Industrial Road, Fairfield, NJ 07004 Phone: 973-276-9011 Fax: 973-276-9014 [www.gasflo.com](http://www.gasflo.com)

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**DIMENSIONAL INFORMATION**



All dimensions are in inches—for reference only, subject to change.

**SPECIFICATIONS**

PRESSURE RATING: 3500 PSIG

FLOW COEFFICIENT  $C_v = .13$

SEAT ORIFICE SIZE:  $\phi .125"$

STANDARD SEAT MATERIAL: PCTFE

TEMPERATURE LIMITS PCTFE SEAT:  $-65^\circ\text{F}$  TO  $150^\circ\text{F}$

TEMPERATURE LIMITS OPTIONAL POLYIMIDE SEAT:  $-65^\circ\text{F}$  TO  $250^\circ\text{F}$

WETTED DIAPHRAGM: 316L SST

MAX. ALLOWABLE SEAT LEAKAGE:  $2 \times 10^{-8}$  ATM CC/SEC He

MAX. INBOARD LEAKAGE  $2 \times 10^{-8}$  ATM CC/SEC He

STANDARD BOTTOM MOUNT:  $2 \times 10^{-32}$  TAPPED HOLES

OPTIONAL PANEL MOUNT: PANEL HOLE SIZE:  $57/64"$

**ORDERING INFORMATION**

**TYPICAL PART NUMBER**

VLV	QSL	4	4	SS	TS	TS	PM
PRODUCT FAMILY VALVES							OPTIONAL FEATURES CP = CONSTANT PURGE PI = POLYIMIDE SEAT PM = PANEL MOUNT
SERIES QSL							OUTLET CONNECTION C = COMPRESSION ( $L_0 = .91"$ ) F = FEMALE NPT ( $L_0 = 1.01"$ ) FFS = FEMALE FACE SEAL ( $L_0 = 1.48"$ ) M = MALE NPT ( $L_0 = 1.36"$ ) MFS = MALE FACE SEAL ( $L_0 = 1.15"$ ) P = PIPE SOCKET WELD ( $L_0 = 1.01"$ ) SW = TUBE SOCKET WELD ( $L_0 = 1.18"$ ) TS = ORBITAL TUBE WELD ( $L_0 = .88"$ )
INLET PORT SIZE 4 = $1/4"$ 6 = $3/8"$							INLET CONNECTION C = COMPRESSION ( $L_1 = .91"$ ) F = FEMALE NPT ( $L_1 = 1.01"$ ) FFS = FEMALE FACE SEAL ( $L_1 = 1.48"$ ) M = MALE NPT ( $L_1 = 1.36"$ ) MFS = MALE FACE SEAL ( $L_1 = 1.15"$ ) P = PIPE SOCKET WELD ( $L_1 = 1.01"$ ) SW = TUBE SOCKET WELD ( $L_1 = 1.18"$ ) TS = ORBITAL TUBE WELD ( $L_1 = .88"$ )
OUTLET PORT SIZE 4 = $1/4"$ 6 = $3/8"$							
OUTLET PORT SIZE ASB = ALUMINUM SILICON BRONZE BR = BRASS CH = NICKEL PLATED BRASS MO = MONEL® SS = STAINLESS STEEL 316L							

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REPAIR KIT PN: RK-SL-DIA

3 PORT, 4 PORT AND CUSTOM CONFIGURATIONS ARE AVAILABLE ON REQUEST. ALSO AVAILABLE WITH PNEUMATIC OPERATOR, SEE LPSL AND HP SL SERIES.

Minimum order quantities may be required. Some inlet/outlet combinations may not be available.

VALVE, FITTING OR OTHER COMPONENT FUNCTION, PROPER INSTALLATION, MATERIALS COMPATIBILITY, ADEQUATE RATINGS, OPERATION AND MAINTENANCE ARE THE RESPONSIBILITY OF THE SYSTEM DESIGNER AND USER.



PRODUCT FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.



**MADE IN USA**

VLV-QSL-2014 REV A.

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