

GasFlo Products QLL Series Valves are manufactured with an extended inlet leg and 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
- EXTENDED LONG LEG INLET
- QUARTER TURN LEVER HANDLE
- ADJUSTABLE HANDLE ORIENTATION
- 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
- AVAILABLE WITH PANEL MOUNT OPTIONS
- AVAILABLE WITH ELECTROPOLISHED ID SURFACE
- AVAILABLE IN REVERSE FLOW DESIGNS

MATERIALS OF CONSTRUCTION

- BODY OPTIONS:
BRASS, NICKEL PLATED BRAS, 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

- PURGE ASSEMBLIES
- GAS/FLUID CONTROL PANELS
- MANIFOLD SYSTEMS
- SAMPLING SYSTEMS
- GAS ANALYZERS
- 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



MADE IN USA

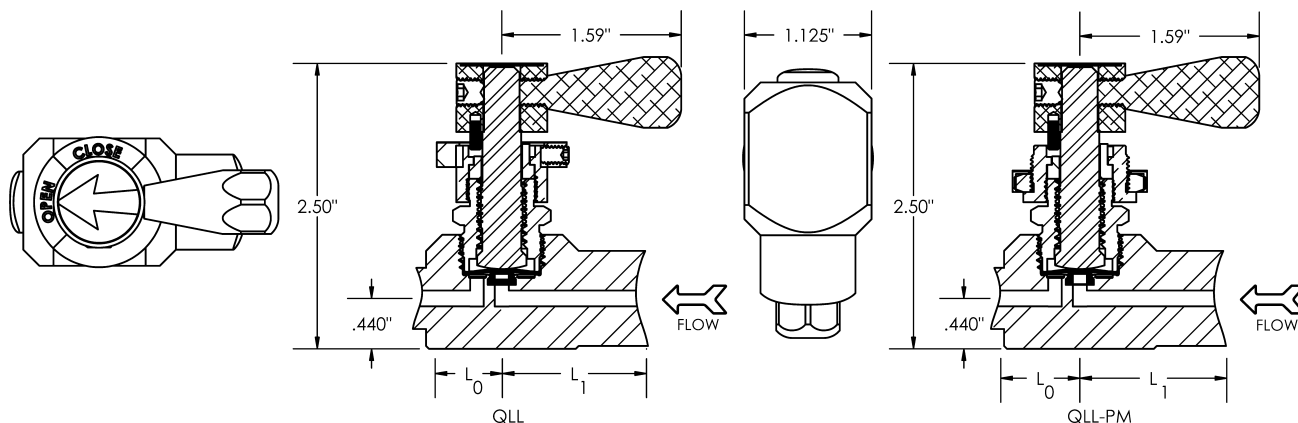
VLV-QSL-2016 REV. B

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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: Ø.125"

STANDARD SEAT MATERIAL: PCTFE

TEMPERATURE LIMITS PCTFE SEAT: -65° F TO 150° F

TEMPERATURE LIMITS OPTIONAL POLYIMIDE SEAT: -65° F TO 250° F

WETTED DIAPHRAGM: 316L SST

MAX. ALLOWABLE SEAT LEAKAGE: 2 x 10⁻⁸ ATM CC/SEC He

MAX. INBOARD LEAKAGE 2 x 10⁻⁸ ATM CC/SEC He

OPTIONAL BOTTOM MOUNT: 2 x 10-32 TAPPED HOLES

ON A 1" BOLT CIRCLE

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

ORDERING INFORMATION

TYPICAL PART NUMBER

VALVE PART NUMBER														
VLV	-	QLL	-	4	-	4	-	SS	-	M	-	C	-	PI
PRODUCT FAMILY											OPTIONAL FEATURES			
VALVES											BM = BOTTOM MOUNT			
											PI = POLYIMIDE SEAT			
											PM = PANEL MOUNT			
SERIES											OUTLET CONNECTION			
QLL											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											INLET CONNECTION			
4 = 1/4"											C = COMPRESSION (L ₁ = 1.70")			
R4 = REVERSE FLOW 1/4"											F = FEMALE NPT (L ₁ = 1.37")			
											FFS = FEMALE FACE SEAL (L ₁ = 2.27")			
											M = MALE NPT (L ₁ = 2.15")			
											MFS = MALE FACE SEAL L ₁ = 1.94")			
											P = PIPE SOCKET WELD (L ₁ = 1.37")			
											SW = TUBE SOCKET WELD (L ₁ = 1.97")			
											TS = ORBITAL TUBE WELD (L ₁ = 1.67")			
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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CUSTOM CONFIGURATIONS ARE AVAILABLE ON REQUEST. ALSO AVAILABLE WITH PNEUMATIC OPERATOR, SEE LPLL AND HP LL 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.



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