



GasFlo Products HPSL Series Valves are air operated to allow for remote automated cycling. This high pressure springless diaphragm design is available in normally closed or normally open configurations. Valve remains in a static state unless proper actuation pressure is continuously applied. HPSL Series Valves provide superior leak integrity for critical gas/fluid systems with pressure ranges from vacuum to 3500 psig.

FEATURES

- BAR STOCK CONSTRUCTION
- AIR OPERATED ACTUATION
- NORMALLY CLOSED OR NORMALLY OPEN
- COMPACT SIZE
- SPRINGLESS DESIGN
- METAL DIAPHRAGM SEALED
- POSITIVE SHUT-OFF
- LOW INTERNAL VOLUME
- HIGH CYCLE LIFE
- LEAK TEST PORT
- ULTRASONICALLY DI CLEANED
- 100% HELIUM LEAK TESTED
- STANDARD BOTTOM MOUNT DESIGN
- AVAILABLE WITH ELECTROPOLISHED ID SURFACE ON REQUEST
- CUSTOM MATERIALS AND CONFIGURATIONS AVAILABLE ON REQUEST

MATERIALS OF CONSTRUCTION

- BODY OPTIONS:
BRASS, NICKEL PLATED BRASS,
316L STAINLESS STEEL, MONEL® R405,
OR NICKEL 200
- SEAT:
PCTFE
- WETTED DIAPHRAGM:
ELGILOY®
- ACTUATOR HOUSING:
NICKEL PLATED ALUMINUM
- STEM:
316 STAINLESS STEEL

MONEL® - TM - SPECIAL METALS CORPORATION

APPLICATIONS

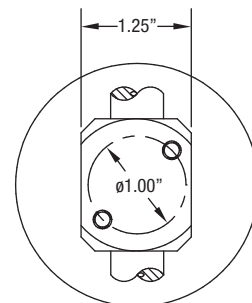
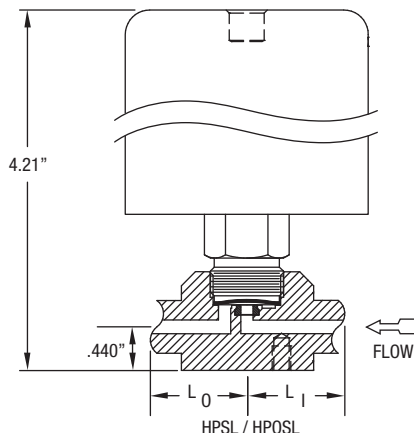
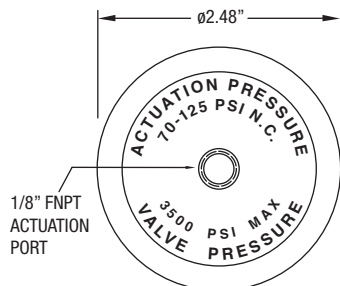
- GAS/FLUID CONTROL PANELS
- VALVE MANIFOLD BOXES
- MANIFOLD SYSTEMS
- GAS ANALYZERS
- GENERAL SHUT-OFF

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



DIMENSIONAL INFORMATION



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

SPECIFICATIONS

PRESSURE RATING: 3500 PSIG
ACTUATION PRESSURE: 70 - 125 PSIG
FLOW COEFFICIENT $C_v = .14$
SEAT ORIFICE SIZE: $\phi .125"$

STANDARD SEAT MATERIAL: PCTFE
TEMPERATURE LIMITS: -65° F TO 150° F
MAX. ALLOWABLE SEAT LEAKAGE: 2 x 10-8 ATM CC/SEC He
MAX. INBOARD LEAKAGE: 2 x 10-8 ATM CC/SEC He

WETTED DIAPHRAGM: ELGILOY®
STANDARD BOTTOM MOUNT: 2 x #10-32 TAPPED HOLES
ON A 1" BOLT CIRCLE
ACTUATION PORT: 1/8" FEMALE NPT

ORDERING INFORMATION

TYPICAL PART NUMBER

VLV	-	HPSL	-	4	4	SS	-	TS	TS
PRODUCT FAMILY VALVES									
SERIES HPSL (NORMALLY CLOSED) HPOS� (NORMALLY OPEN)									
INLET PORT SIZE 4 = 1/4" 6 = 3/8"									
OUTLET PORT SIZE 4 = 1/4" 6 = 3/8"									
MATERIAL ASB = ALUMINUM SILICON BRONZE BR = BRASS CH = NICKEL PLATED BRASS MO = MONEL® SS = STAINLESS STEEL 316L									
								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") SW = TUBE SOCKET WELD (L ₀ = 1.18") TS = ORBITAL TUBE WELD (L ₀ = .88")	
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MONEL® - TM - SPECIAL METALS CORPORATION									
REPAIR KIT PN: RK-SL-DIA									

3 PORT, 4 PORT AND CUSTOM CONFIGURATIONS ARE AVAILABLE ON REQUEST. ALSO AVAILABLE MANUALLY OPERATED, SEE SL AND QSL 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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