



GasFlo Products STA Series Valves are a high pressure, medium flow design. This spring type, diaphragm, forged body, angle pattern valve can be easily field maintained with an economical re-build kit. The STA Series provides an extended service life, positive shut off and smooth operation for pressure ranges from vacuum to 3500 psig.

## FEATURES

- FORGED BODY CONSTRUCTION
- SPRING TYPE DESIGN
- METAL DIAPHRAGM SEALED
- POSITIVE SHUT-OFF
- LASER MARKED WITH UNIQUE SERIAL NUMBER
- ULTRASONICALLY DI CLEANED
- 100% HELIUM LEAK TESTED
- AVAILABLE WITH OPTIONAL FLOW RESTRICTOR ORIFICE OUTLET PORT
- AVAILABLE WITH OPTIONAL INLET FILTER STICK
- AVAILABLE WITH ELECTROPOLISHED ID SURFACE ON REQUEST
- CUSTOM MATERIALS AND CONFIGURATIONS AVAILABLE ON REQUEST

## MATERIALS OF CONSTRUCTION

- BODY OPTIONS:  
316L STAINLESS STEEL
- SEAT OPTIONS:  
PCTFE OR POLYIMIDE
- WETTED DIAPHRAGM:  
ELGILOY®
- SPRING ASSEMBLY:  
316L STAINLESS STEEL
- LOWER STEM:  
316L STAINLESS STEEL
- BONNET NUT:  
303 STAINLESS STEEL
- UPPER STEM:  
416 STAINLESS STEEL
- HANDLE:  
POWDER COATED ALUMINUM
- LABEL:  
VINYL / MYLAR

ELGILOY® REGISTERED TRADEMARK OF ELGILOY SPECIALTY METALS.

## APPLICATIONS

- MANIFOLD SYSTEMS
- MASTER SHUT-OFF
- SAMPLE CYLINDERS
- CYLINDER VALVES
- TUBE TRAILERS

## END CONNECTION OPTIONS

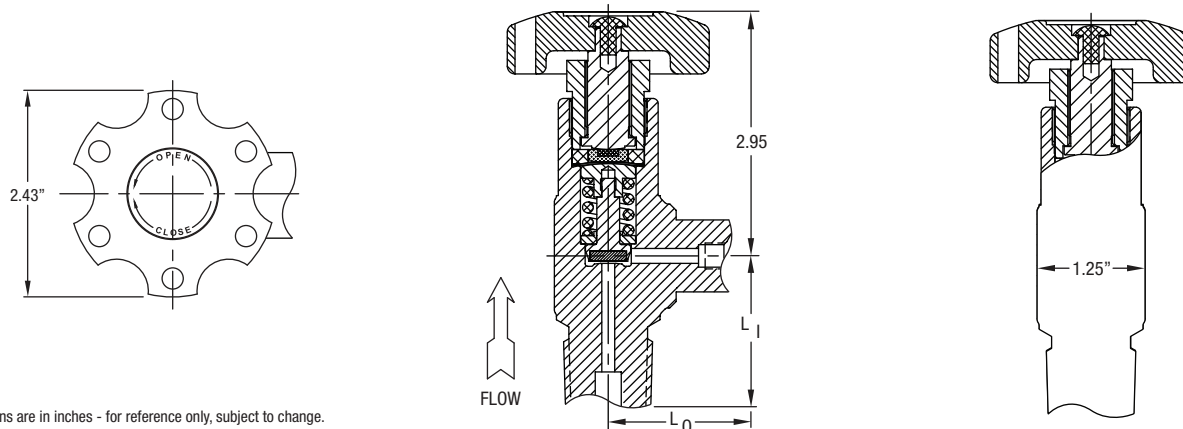
### INLET OPTIONS:

- 1/2" NPT MALE
- 3/4" NGT MALE
- 25E MALE
- CUSTOM CONNECTIONS

### OUTLET OPTIONS:

- 1/4 MALE AND 1/2 MALE FACE SEAL
- 1/2" NPT MALE AND 1/2" NPT FEMALE
- CGA CONNECTIONS
- CUSTOM CONNECTIONS

## DIMENSIONAL INFORMATION



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

## SPECIFICATIONS

**PRESSURE RATING:** 3500 PSIG

**FLOW COEFFICIENT**  $C_v = .30$

**SEAT ORIFICE SIZE:**  $\varnothing .156"$

**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:** ELGILOY®

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

**MAX. INBOARD LEAKAGE:** 2 x 10-8 ATM CC/SEC He

## ORDERING INFORMATION

### TYPICAL PART NUMBER

<b>VLV</b>	-	<b>STA</b>	-	<b>12</b>	<b>8</b>	<b>SS</b>	-	<b>M</b>	<b>MFS</b>	-	<b>PI</b>
<b>PRODUCT FAMILY</b> VALVES		<b>SERIES</b> STA		<b>INLET PORT SIZE</b> 8 = 1/2" NPT 12 = 3/4" NGT AS PER CGA V-1 25E = TAPER THREAD AS PER ISO 11363-A		<b>OUTLET PORT SIZE</b> 4 = 1/4 8 = 1/2 CGA = SPECIFY YOUR 3-DIGIT CGA CONNECTION NUMBER		<b>MATERIAL</b> SS = STAINLESS STEEL 316L		<b>OPTIONAL FEATURES</b> PI = POLYIMIDE SEAT F = 30 MICRON FILTER STICK R = FRO PORT	
						<b>OUTLET CONNECTION</b> F = FEMALE ( $L_0 = 1.59"$ ) M = MALE ( $L_0 = 1.63"$ ) MFS = MALE FACE SEAL 1/4 ( $L_0 = 1.21"$ ) MFS = MALE FACE SEAL 1/2 ( $L_0 = 1.52"$ ) * CONTACT FACTORY FOR CGA OUTLET CENTER LINE DIMENSIONS.					
						<b>INLET CONNECTION</b> M = MALE 1/2" NPT ( $L_1 = 1.88"$ ) MALE 3/4" NGT ( $L_1 = 1.95"$ ) MALE 25E ( $L_1 = 1.98"$ )					

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REPAIR KIT PN'S: RK-ST8SS-K, RK-ST8SS-PI

**CUSTOM CONFIGURATIONS ARE AVAILABLE ON REQUEST.**

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-STA-2014

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