

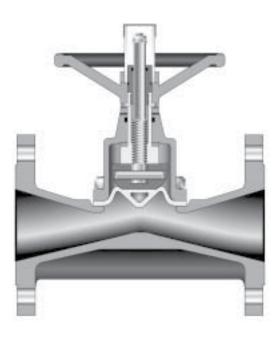
SMOOTH EASY OPERATION - EVEN AFTER YEARS OF INACTIVITY

Unobstructed flow path

Bubble tight shut off; even with abrasives, slurrys, and gasses

Designed to handle abrasives and slurrys

Rubber and teflon lining available for extreme abbrasive or corrosive applications



No packing gland or stuffing box

All mechanical parts are isolated from the process fluid

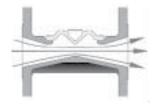
Diaphragm replaceable without removing valve from line

Standard polyester/TGIC interior and exterior coating

Why Do TTV Diaphragm Valves Last Longer?

The TTV valve reduces diaphragm flex by contracting the vertical height of the flow area and by expanding the width. The resultant body shape provides the laminar flow characteristics of a venturi and less turbulence to the flow media. As a result, the diaphragm life is increased which inables it to last longer.

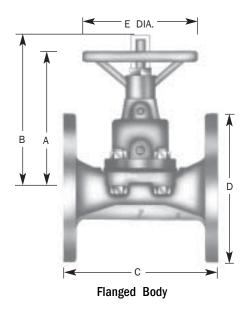




HIGH FLOW CAPACITY Compare CV's							
Valve	TTV #100	Brand "D"					
Size	Diaphragm	Eccentric					
	Valve	Plug Valve					
2-1/2	265	236					
3	41	330					
4	718	560					
6	1690	1180					



SERIES 100 **GENERAL DIMENSIONS**



Standard TTV Face to Face Diaphragm Valve (C-Dimension) is interchageable with most brands of eccentric "Plug Valves" and "Gate Valves."

VALVE	GENERAL DIMENSIONS				PRESSURE RATING	WEIGHT LBS.	
SIZE	A	В	С	D	E	(PSI)	LDS.
2"	7-1/4	9	7	6	5	175	25#
2-1/2"	7-1/4	9	7-1/2	7	5	175	32#
3"	8-3/8	10-1/2	8	7-1/2	9	150	45#
4"	13	15	9	9	12	150	70#
6"	17-7/8	22	10-1/2	11	14	125	145#
8"	17-7/8	22	11-1/2	13-1/2	14	125	165#



Square Nut Operator

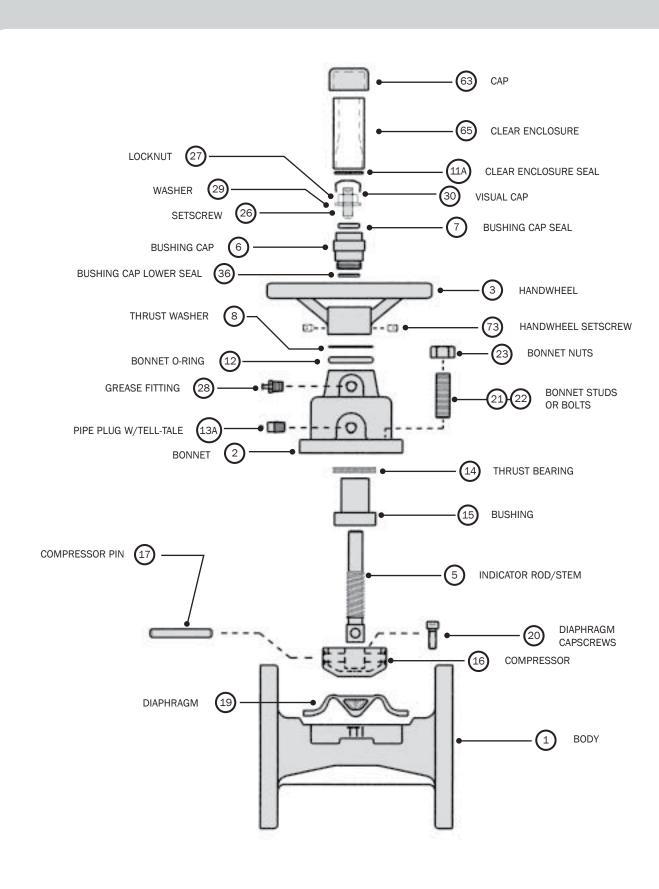


Chain Wheel Operator



Lock-Out Device

SERIES 100 HANDWHEEL VALVE - EXPOLODED VIEW



SERIES 100 **MATERIAL CALLOUT**

PARTS LIST

NO.	DESCRIPTION	STANDARD MATERIAL
01	Body	**
02	Bonnet	Cast Iron, A126 Class B
03	Handwheel	Cast Iron, A126 Class B
05	Indicator Rod/Stem	Steel 12L14, Black Oxide Finish
06	Bushing Cap	Steel 12L14, Zinc Chromate Finish
07	Bushing Cap Seal*	BUNA-A
08	Thrust Washer	Nylon
11A	Enclosure Cap Seal*	BUNA-N
12	Bonnet Seal*	BUNA-N
13A	Pipe Plug w/Tell-Tale	Polyethylene
14	Thrust Bearing	Polished Steel
15	Bushing	Ductile Iron, ASTM A536
16	Compressor	Cast Iron, A126 B
17	Compressor Pin*	Carbon Steel, AISI 1070
19	Diaphragm*	Material as Specified
20	Diaphragm Capscrews	18-8 Stainless Steel
21/22	Bonnet Studs or Bolts	Steel Grade 2, Electro Zinc Plated
23	Bonnet Nuts	Steel Grade 2, Electro Zinc
26	Travel Stop Setscrew	Alloy Steel, Black Oxide Finish
27	Locknut	Steel, Zinc-Plate
28	Grease Fitting	Steel, Electro Zinc Plated
29	Washer	Steel, Zinc Plated
30	Visual Cap	Polyethylene
36	Bushing Cap Lower Seal*	BUNA-N
63	Enclosure Cap	Polyethylene
65	Clear Enclosure	Acrylic
73	Handwheel Setscrew	Alloy Steel, Black Finish

^{*} Recommended Spare Parts

^{**} As Supplied - Ductile Iron A536 GR 65-45-12, Cast Iron A126 Class B, 316 Stainless Steel CF8M, Alloy 20 CF7M, Cast Steel WCB

SERIES 100 PNEUMATIC AND ELECTRIC ACTUATOR

PNEUMATIC ACTUATOR

(Manufactured by TRU-TECH VALVE)		cm ccon
Ordering Information Flow: Minimum(gpm), Normal(gpm), Max Valve Size (In.), Line Pressure(Psi), ΔP Minimum Plant Air Available(Psi) Type of Operation/Actuation:On/Off (Open/Close); Operator/Actuator Type A Air-to-Open/Air-to-Close B Air-to-Open/Spring-to-Close	(Psi)	
Accessories A Pneumatic Positioner: 3-15 psi (Modulating Service) B Electro-Pneumatic Positioner: 4-20 mA (Modulating Service) C Transducer: 4-20 mA (I/P) - (Modulating Service) D Solenoid Valve (On/Off Service) E Filter Regulator or Regulator F Limit Switches: Open; Closed; Both Posit G Proximity Switches: Open; Closed; Both F	tions	"SC" Air to Open, Spring to Close with Dual Limit Switches
ELECTRIC ACTUATOR Ordering Information Valve Size	ottling	
Voltage, Hz, Phase, Cycles _ AC or DC, NEMA Manufacturer Preferred (RCS is Standard Duty Cycle		
Manual overide, limit switches, adjustable peed control throttling capability, eater positioners, and controllers.		

AUMA, RCS, EIM, and Limitork are the most popular, but almost all commercially available actuators can be adapted.





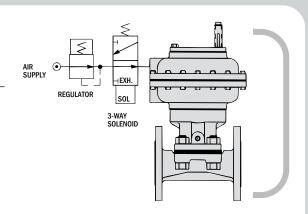


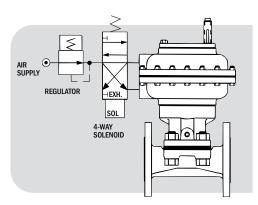
LIMITORK

SO - SPRING TO OPEN

ON - OFF Control

This actuator/acessory package is designe to normally position the valve open. The valve will close when compressed air is admitted into the upper actuator chamber and the actuator spring will open the valve when the air is exhausted.





AA - AIR TO AIR, DOUBLE ACTING

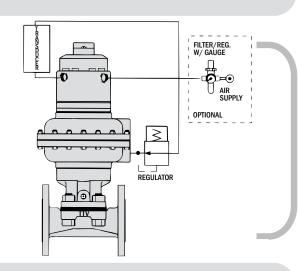
ON - OFF Control

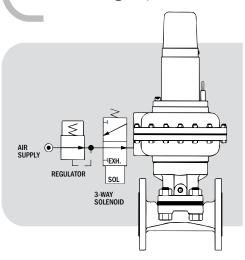
This actuator/acessory package is designed to open the valve when compressed air is admitted into the lower chamber and closes the valve when compressed air is admitted into the upper chamber.

AA - AIR TO AIR, DOUBLE ACTING

AUTOMATIC THROTTLING

This package is provided with a positioner to accurately throttle the valve for pressure, liquid level, flow, temperature, and other control requirements. A transducer is generally supplied to provide valve modulation, proportional to an electric signal (most often 4-20 mA).





SC - SPRING TO CLOSE

ON - OFF Control

OR AUTOMATIC THROTTLING (NOT SHOWN)

This package is designed to normally position the valve closed. The valve will open when compressed air is admitted into the lower actuator chamber and the actuator spring will close the vavle when the air is exhausted.

SIMPLIFY YOUR WORLD.

High Performance Solution Valves



Pneumatic Actuated



Handwheel Operated



Electric Actuated

