

127 Village Lane Easley, SC 29642 Tel: (864) 605-0150 Fax: (864) 605-0830 www.tru-flo.com

INSTALLATION & MAINTENANCE MANUAL

DGO DECLUTCHABLE WORM GEAR OVERRIDE

Introduction

The Triac rotary manual override sandwich mounts between the actuator and the valve/damper. The self-locking declutchable worm gear design provides a secure, easily engaged, long lasting override for the Triac pneumatic actuator.



Installation

- 1 Note the valve position (open or closed) and ensure that the DGO operator and the actuator are in a corresponding position.
- 2 The DGO operator direct mounts to the actuator specified. Place the actuator on the DGO, aligning the coupler and actuator pinion.
- 3 Insert actuator mounting bolts with lockwashers and tighten until snug. Cycle actuator several times, then tighten fully.
- 4 Install the DGO to the valve with proper mounting kit.
- 5 Tighten the nuts and bolts until snug, stroke the actuator several times to properly align coupler, then tighten fully.

BBV - Block & Bleed Valve

The BBV, block and bleed valve, shuts off the air supply and vents the actuator allowing manual operation. (Please see IOM4007 for detailed information)

- Manual operation purges the air from one side of the pistons to the other, preventing corrosive atmosphere from being drawn into the actuator.
- Direct mounts to the NAMUR air porting of the Triac pneumatic actuator eliminating the need for tubing and fittings.
- Can be combined with other Triac NAMUR accessories such as the flow controls, & TVC solenoids

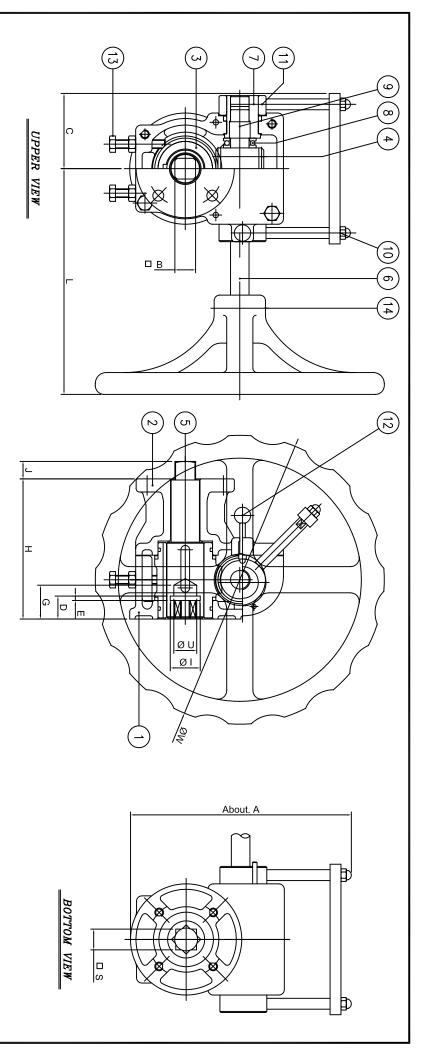
Operation

- Actuator will operate normally with DGO override declutched.
- 2 Manual operation requires that the supply air is shut off and the actuator vented. Pull the knob on the BBV vent valve to accomplish this.
- 3 Momentarily lift the lock pin and rotate the declutch bar clockwise 180 deg (toward the actuator), until the lock pin drops into place. The worm gear is now engaged, rotate handwheel until desired position is reached.
- 4 To return to automatic operation, rotate handwheel to desired valve position (or full failed position for spring return actuator). Momentarily lift the lock pin and rotate the declutch bar ccw 180 deg, until the lock pin engages, locking the declutch bar into place.
 - Push in the knob on the BBV to re-connect the air supply lines.



How to Specify

The manual override shall be an Triac DGO declutchable worm gear override capable of being sandwich mounted between the Triac actuator and the valve. Body shall be casting iron with enamel coating for corrosion resistance. Gearing to be plated steel to ensure reliable and long life. The vent valve shall be an Triac BBV direct NAMUR mounted to the actuator to provide internal air purging of the cylinder bore during manual operation.





DGO-3	DGO-2	DGO-1		MODEL #
45	45	45	LBS	INPUT
5034	3298	1996	In-Lbs	OUTPUT
85	85	85	LBS	INPUT
9114	5989	3732	In-Lbs	OUTPUT

MOUNTING DIMENSIONS

::00:	0.00	1	000
1/2-131/NC	0.55	4 92	DGO-3
3/8-16UNC	0.47	4.02	DGO-2
5-/16-18UNC	0.39	2.76	DGO-1
BOTTOM - TAPPED HOLE	TOP - BOLT HOLE	BOLT CIRCLE	MODEL #

BEARING

PURCHASE PURCHASE SS 41

SM 45C

SM 45C

DU BUSH

SHAFT RETAINER

SHAFT

COVER

WORM WHEEL WORM GEAR COUPLING

ANSI-1045

SM 45C

GCD 450

ANSI-1045 ANSI-1045 ANSI-1045

SM 45C

BODY

A126 CL. B A126 CL. B A536

GC 200

GC 200

ASTM

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REMARK

DESCRIPTION

LEVER

LEVER RETAINER

A 36

SS 41 STS 410

STOPPER BOLT&NUT

A276 - 410

A 36

SS 41 GC 200

HANDLE

A126 CL B

DIMENSIONS

	DGO-3	DGO-2	DGO-1	MODEL#
	3.84	3.33	2.72	С
	10.24	8.82	8.15	7
	18.23	15.24	10.43	W
	6.85	6.20	5.06	Н
	12.03	10.55	7.97	Α
	1.063	0.866	0.748	В
	1.02	0.83	0.63	J
	1.063	0.866	0.748	S
	1.50	1.06	0.83	D
	0.39	0.24	0.16	E
	1.85	1.30	1.08	1
	1.46	0.96	0.83	U
	1.89	1.46	1.22	G



ECN#

DATE

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TRIAC DGO-1, 2, 3 DECLUTCHABLE GEAR OVERRIDE

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