

VIWG Internal Wastegate



The Vacuum internal wastegate actuator solution features an all-billet construction designed as a durable, adjustable and performance enhancing control device for vacuum internally wastegated turbine housings. The Turbosmart actuator features a larger mechanical advantage than the OEM components allowing for stability throughout the powerband allowing for consistent and controllable boost pressure.

- Twin Port allows for a positive pressure balancing
- Multi PCD base pattern for wide range of turbocharger support
- Straight, bent, clevis, through-nut type control arm support
- Collared cap retainment for ease of adjustment

Mechanical Data

Actuator diameter	57mm	76mm
Mass	Xg	Xg
Actuator stroke	13mm	
Linearity	-1.78% of full lift (BFSL)	
Hysteresis	6.4% of base pressure	
Set pressure accuracy	+/- 0.5 psi of base pressure	
Safe working pressure max.	447 InHg / 220 psi / 1520 kPa / 15 bar	
Safe inverted pressure max.	366 InHg / 180 psi / 1250 kPa / 12.5 bar	
Actuator life	750k cycles @ 180°C ambient 1000k cycles @ 80°C ambient	
Actuator/Valve ratio	Turbo dependant	
Spring base pressure	6 InHg / 2.9 psi / 20 kPa / 0.2 bar	
Port fittings type	Upper: -3AN 3/8" UNF 24TPI (STD) Lower: 2x 1/16" NPT	

Material Data

Beryllium (Be)	0%
Diaphragm	Proprietary Silicone w/ Nomex
Actuator housing	6262-T6 anodised Al.
Control arm bush	Delrin / Brass
Control arm	304 SS
Elastomers	Viton
Springs	17-7PH Stainless Steel
Bracket	Nickel Plated Steel

Thermal Data

Max. ambient/compartament temp.	+260°C / 500°F
Max. actuator temp.	310°C / 590°F

