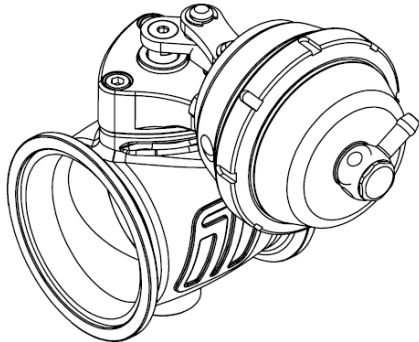


PSG50V Vacuum Pneumatic Straight Gate



The PSG50V Vacuum Straight Gate solution features an all-billet actuator construction designed as a durable, adjustable and performance enhancing control device for externally wastegated turbos. The Turbosmart Pneumatic Straight gate features a wide range of flow control capabilities allowing for stability throughout the powerband allowing for consistent and controllable boost pressure.



- Self-Balancing Zero-Offset Butterfly Valve
- Unparalleled Tuning Window: 5+ Times Base Spring Pressure
- Designed and Validated to 1300 Deg C (2372 Deg F) EGT's
- 360 Degree 60mm V-Band Fitment
- Clock-able Billet Actuator & Bracket
- Collared cap retainment for ease of adjustment

Mechanical Data

Actuator diameter	57mm
Mass	320g
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.	29.92 InHg / 220 psi / 1520 kPa / 15 bar
Safe inverted pressure max.	180 psi / 1250 kPa / 12.5 bar
Actuator life	0.75x10 ⁶ cycles @ 180°C ambient 1.0x10 ⁶ cycles @ 80°C ambient
Spring pressure	6 InHg / -2.9 psi / -20 kPa / -0.2 bar
Port fittings type	Upper: -3AN 3/8" UNF 24TPI (STD)

Thermal Data

Max. ambient/compartament temp.	260°C / 500°F
Max. actuator temp.	310°C / 590°F
Max. body temp	1300 °C / 2372 °F

Included in the Box

- Wastegate unit
- Outlet V-Band
- Outlet V-Band
- Outlet SS304 weld flange
- Outlet SS304 weld flange
- Sticker
- Instruction card

Accessories

TS-0503-3002	WG60 Stainless Outlet Weld Flange
TS-0555-3004	WG60 Outlet V-Band

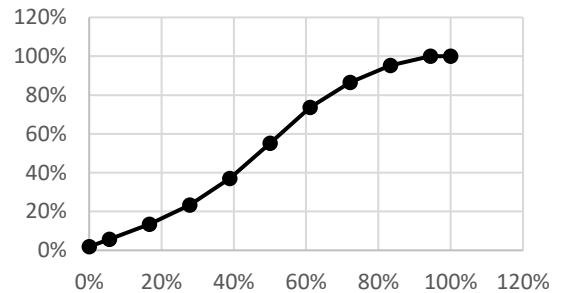
Material Data

Beryllium (Be)	0%
Diaphragm	Proprietary Silicone w/ Nomex
Actuator housing	6262 T6 anodised Al.
Actuator bush	Delrin
Linkage	N60
Control arm	431 and 304 SS
Elastomers	Viton
Springs	17-7PH Stainless Steel
Bracket	6262 T6 anodised Al.

Flow Characteristics

Max. Flow	383.9 CFM/10.87m ³ /min @1psidP
Flow Linearity	-8.8% of full lift (BFSL)

Flow Linearity



Order Data

TS-0565-1212	PSG50V Vacuum Pneumatic Straight Gate 6psi Black
Ts-0565-1762	PSG50 Pneumatic Straight Gate 6psi Black

