

# GEN•V the brand new wastegate range

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Our new wastegates are a direct fit upgrade to all 4th-generation Turbosmart wastegates and feature our unique collar-locking system, variable actuator cap and base, strap-type V-band clamps, liquid-cooling, 1/8" NPT ports, and are provided with a range of springs.

**MOTORSPORT** - The Motorsport external wastegate is a cost effective, high performing wastegate designed specifically for endurance racing and where there is no significant airflow through the engine compartment available and high thermal thresholds are required for extended periods of time.

**COMPRESSED GAS** - The Compressed Gas external wastegate is a cost effective, high performing wastegate designed for control strategies that actively bias the top chamber with high pressure for large boost bandwidth operation, such as CO2 drag racing, or compressed air WRC applications. The Compressed Gas range features a specialized diaphragm to maximize longevity from high pressure CO2 or compressed air systems.

**GEN-IV HIGH PRESSURE** - The highest pressure external wastegate of its kind in the world. The HP Series retains the compactness and lightness synonymous with Turbosmart wastegates with the added bonus of being to produce and control extremely high boost pressures.

38mm | 40mm | 45mm | 50mm | 60mm

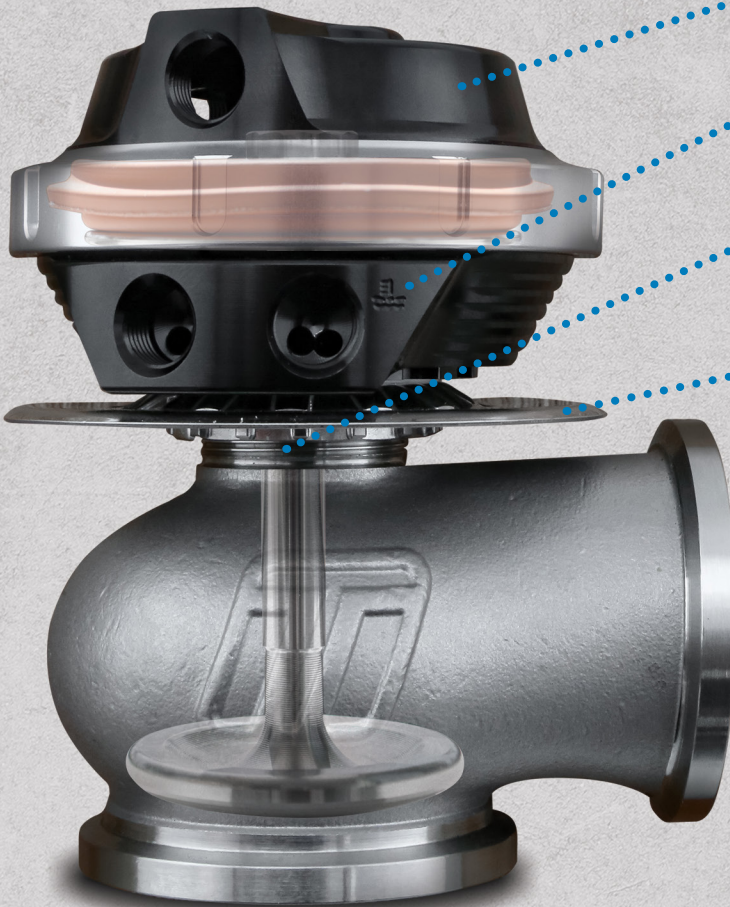
All gates have been tested at over 1200°C/2000°F performing over a million cycles



Actuator

Center

Body



**Innovative Actuators Design** - Actuators can be interchangeable across the range. Smaller actuators can be fitted to larger body wastegates.

**Water Cooling** - Liquid cooling ports have been added to increase thermal performance, offering improved temperature control in extreme applications where no air flow is present.

**360° Actuator Positioning** - is available because the actuator is not directly bolted to the body, it can be clocked in any position to suit your setup. Simply lift security tabs, loosen the locking ring with the supplied spanner wrench, clock to desired position and tighten.

**Protective Head Shielding** - Liquid cooling ports have been added to increase thermal performance, offering improved temperature control in extreme applications where no air flow is present.

**GEN-V RANGE SPRING CHARTS\***  
For all standard and motorsport versions only

Wastegate Size	Spring Pressure			
	3 PSI	5 PSI	7 PSI	14 PSI
WG38/40	Black	Grey	Pink	Red
WG45/50	Orange	Yellow	Green	Sky Blue
WG60	Raw	Purple	White	Brown

Boost Pressure	Inner	Inner	Middle	Outer
	3 PSI	5 PSI	7 PSI	14 PSI
3 PSI	•			
5 PSI		•		
7 PSI			•	
10 PSI	•			
12 PSI		•	•	
14 PSI				•
17 PSI	•			•
19 PSI		•		•
21 PSI			•	•
24 PSI	•		•	•
26 PSI		•	•	•

\* Spring charts does NOT apply to previous generation wastegate range.



HP Wastegate 38, 40, 45mm



Gen-V Motorsport 40 & 45mm

Entire Wastegate Range	Sizes (MM)	Gen-V Standard	Gen-V Motorsport	Gen-V Compressed Gas	Gen-IV High Pressure	Sensor Cap	Water Cooling	Interchangeable Actuators	Includes Extra Springs	360° Actuator Position	3 - 26 PSI	10-40 PSI	Nomex Diaphragm	1/8" NPT Ports
Ultra-Gate38	38	•				•	•	•	•	•			•	•
Comp-Gate40	40	•	•	•		•	•	•	•	•			•	•
Hyper-Gate45	45	•		•		•	•	•	•	•			•	•
Pro-Gate50	50	•		•		•	•	•	•	•			•	•
Power-Gate60	60	•		•		•	•	•	•	•			•	•
Ultra-Gate38HP	38				•							•	•	•
Comp-Gate40HP	40				•							•	•	•
Hyper-Gate45HP	45				•							•	•	•
Pro-Gate50HP	50				•							•	•	•

Gen-V Wastegate Range	Valve Diameter	CFM	Mass	Safe Working Pressure	Inverted Pressure	Actuator/Valve Ratio	Max. Ambient Temp.	Max. Actuator Temp.
Ultra-Gate38	38mm	116	860g	220 psi	180 psi	2.17:1	260°C/500°F	310°C/590°F
Comp-Gate40	40mm	165.4	752g	220 psi	180 psi	2.01:1	260°C/500°F	310°C/590°F
Hyper-Gate45	45mm	193.6	1006g	220 psi	180 psi	2.07:1	260°C/500°F	310°C/590°F
Pro-Gate50	50mm	241.6	1022g	220 psi	180 psi	1.6:1	260°C/500°F	310°C/590°F
Power-Gate60	60mm	360.9	1584g	220 psi	180 psi	1.6:1	260°C/500°F	310°C/590°F



**Sensor Caps** are available on all Gen-V gates. The wastegate position sensor caps allow user to monitor exact valve positions for diagnostics and tuning purposes.