Gen V WG38 Ultragate38







The Gen-V WG38 Ultragate38 High Pressure external wastegate is a cost effective, high performing 38mm external wastegate designed for bolt on solutions where the 2-bolt flange is utilised. The Gen-V provides extensive user configurability, world leading extended thermal performance, fatigue resistance and best in class flow performance for optimum control and longevity.

- Liquid cooling provision
- User adjustable actuator position
- Springs up to 50psi
- Modular actuator design
- Suitable for 2 bolt flange applications (71 mm spacing)

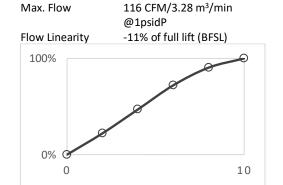
Mechanical Data

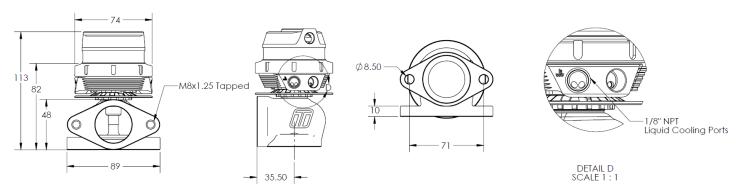
Valve diameter	38mm
Mass	860g
Linearity	-1.13% of full lift (BFSL)
Set pressure accuracy	+/- 0.5 psi of base pressure
Safe working pressure max.	220 psi / 1520 kPa / 15 bar
Safe inverted pressure max.	180 psi / 1250 kPa / 12.5 bar
Actuator life	750k cycles @ 180ºC ambient 1000k cycles @ 80ºC ambient
Actuator/Valve ratio	2.17:1
Max. spring base pressure	26 psi / 180 kPa / 1.8 bar
Min. spring base pressure	3 psi / 21 kPa / 0.2 bar
Port fittings type	Air: 2x 1/8" NPT top chamber Air: 2x 1/8" NPT lower chamber Liquid Cooling: 2x 1/8" NPT

	Liquid Cooling: 2x 1/8" NPT
Thermal Data	
Max. thermal stress (non-cooled)*	>30min @ 1250ºC EGT continuous
Max. thermal stress (h2O cooled)* Max. ambient/compartment temp. Max. actuator temp.	>24hr @ 1250°C EGT continuous 260°C / 500°F 310°C / 590°F

Material Data

Beryllium (Be)	0%
Main Body	High temp 347 SS
Diaphragm	Proprietary Silicone w/ nomex
Actuator housing	6061 T6 anodised Al.
Valve Guide	Nitronic 60
Valve	EV8 w/ proprietary plating
V-Band	Heat treated 431 SS w/ 18-8
	nut
Weld Flanges	304 Stainless Steel
Springs	17-7PH Stainless Steel
Flow Data	





^{*}Continual source of minimum 1250°C exhaust gas, with no cool down periods for at least 30minutes and no external air cooling on actuator, this is a destructive test that an ICE engine cannot support. Contact tech support for further information.

Included in the Box

Wastegate unit (pre-assembled with spring as per order)

SS316 Valve seat

WG38 SS manifold gaskets

Mounting Bolts and Nuts

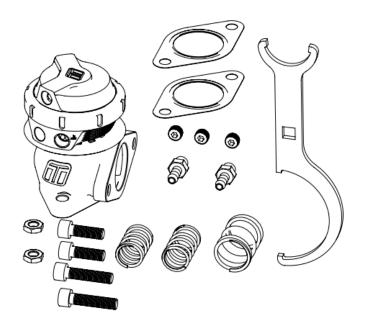
Collar tool (master/slave)

17-7PH3,10, 25 psi spring kit (2x spring installed)

4x 1/8" NPT plugs (1x installed) / 2x 1/8" NPT nipples

Sticker

Instruction card



Spring Data

	Location	Middle	Outer	Outer
re	Pressure	10psi	25psi	40psi
Pressure	10psi	•		
	25psi		•	
Boost	35psi	•	•	
Вс	40psi			•
	50psi	•		•

Order Data

15-0551-1312	Black
Accessories	
TS-0551-3001	WG38 Valve Seat
TS-0551-3002	WG38 Valve & Guide Set
TS-0501-3002	WG38 Manifold Gaskets
TS-0501-2001	WG38 Weld Flanges - Stainless Steel
TS-0552-2002	WG38 Weld Flanges - Mild Steel
TS-0550-3001	74mm Spring Kit
TS-0550-3022	74mm Sensor Cap Upgrade Black
TS-0550-3023	74mm Sensor Cap Upgrade Blue
TS-0550-3004	74mm Diaphragm Replacement Kit
TS-0550-3013	74mm Actuator Collar Tool
	Refer to catalogue for further accessories
Install Req.	
Inlet Pine*	38 1mm / 1 5" OD – *Flange required

Inlet Pipe*	38.1mm / 1.5" OD – *Flange required
Outlet Pipe*	38.1mm / 1.5" OD – *Flange required
Port Tube Min. ID	6mm / 0.236"