



TiALSport MVI 2.5/2.5D Spring Pressure Chart

Pressure (Bar)	Pressure (PSI)	P/N	Description/ Color	O.D. (in)
0.80	12	004803	Blue	1.30
0.40	6	004804	Green	1.00
0.28	4	004805	Yellow	0.66
0.14	2	005409	Red	0.66

Note: Springs of different O.D. can be combined to provide higher levels of boost. The resultant pressure is equal to the sum values of the individual springs.

Note: These ratings equate to preload vs. travel, at the end of the actuator stem. We recommend preloading one full turn (~1mm) to provide an accurate initial baseline, then testing at 0.5mm of initial travel to set the initial opening rate.

Note: Preload does not equal boost pressure, and factors such as lever length and position, as well as internal valve face diameter and placement can have a profound effect on actual boost pressure. We suggest beginning the tuning process with a low baseline pressure setting and using the initial testing to determine any variance between preload setting and actual boost pressure.

Note: Due to the design of the MVI Series, it is strongly recommended that the Field Service Tool (P/N M00029) is used to disassemble and assemble these units to change springs. This tool is available from any TiALSport Distributor, or from our Spare Parts website, and will prevent damage to the diaphragm and/or internal seal and allows for a safe method to release internal spring pressure during that process.