Regulators - Relief / Backpressure

D543510148XEN2

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Controllable Inlet Pressure
10.000 psig / 690 bar

Design Proof Pressure
150% maximum rated

Leakage
Internal & external: Bubble-tight

Operating Temperature
-15°F to 140°F / -26°C to 60°C

Flow Capacity
C_V = 0.08

MEDIA CONTACT MATERIALS

Body
316L Stainless Steel

Bonnet
300 Series Stainless Steel

Seat
PCTFE, Polyimide (Vespel® SP21), PEEK, 17-4 hardened Stainless Steel

Remaining Parts
300 Series Stainless Steel

Inlet & Outlet Port Type
NPTF and Medium Pressure

Inlet and Outlet Port Size
1/4", 3/8"

Weight
6 lbs / 2.7 kg

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TESCOM 54-3500 two-stage hydraulic back pressure regulator reduces the controlled inlet pressure in 2 steps. The integrated second stage is self loading and adjusts itself to 50% of the inlet pressure, regardless if the unit is spring, air or dome loaded. This reduction of differential pressure per stage significantly reduces the destructive force of erosion and cavitation. A wide range of soft goods and valve trim materials, including ceramic option, allow for media specific regulator selection.

Applications

- High Pressure Hydraulic test benches
- Injection Valve Manufacturing & Testing
- Supercritical media applications
- Chemical injection

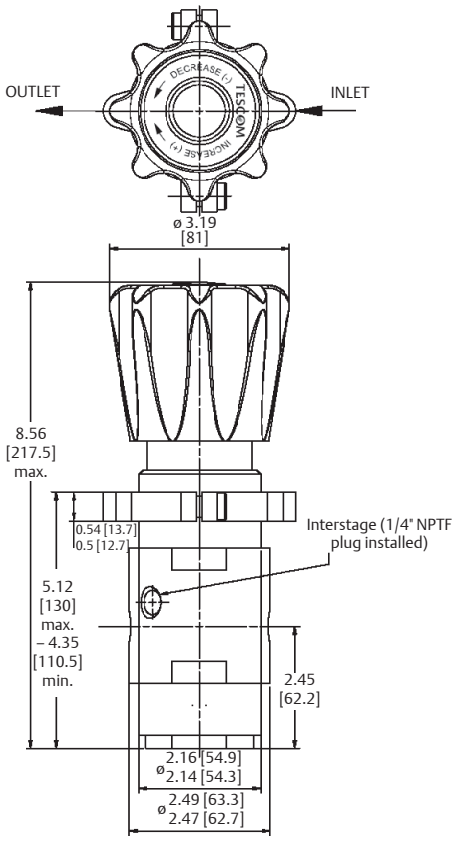
Features and Benefits

- Longer lifetime than single stage solutions by reduced erosion and cavitation
- Lower cost of ownership
- Proven Tescom valve trim modules with many options available

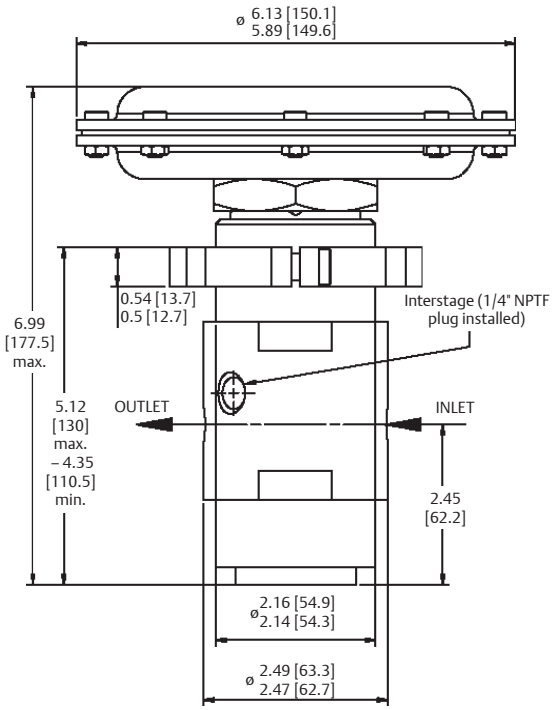
54-3500 SERIES

54-3500 Series Regulator Drawing

54-3500 Spring Loaded



54-3500 Air Loaded



All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets

Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.

Example for selecting a part number :

A = Air Loaded
D = Dome Loaded
S = Spring Loaded

54-35 6 1 T 2 4 A 1 5 0

BASIC SERIES	MATERIAL	INLET PRESSURE	SOFT GOODS MATERIAL		INLET OUTLET PORT TYPE	INLET OUTLET PORT SIZE	FLOW CAPACITY	SEAT MATERIAL	GAUGE PORT OPTIONS	MOD
			O-RING	BACK-UP RING						
54-35	**6 –** Stainless Steel	**1 –** 200 - 10000 psig 14 - 690 bar **2 –** 50 - 6000 psig 3.4 - 414 bar	**B -** Nitrile, Buna-N **T -** FKM (Viton®-A) **U -** Urethane **V -** FFKM, Perfluoroelastomer (Kalrez®) **Z -** EP	PTFE PTFE PTFE PTFE PTFE	**2 –** NPTF **6 –** Medium Pressure	**4 –** 1/4" **6 –** 3/8"	**1 –** Cv = 0.08	**0 – P**CTFE **5 –** 17-4 Stainless Steel **7 –** Polyimide (Vespel® SP1) **8 –** PEEK	**0 –** NONE	**001 –** Ceramic Stem