

# TORNADO

L and LS



Heavy duty single stage cylinder pressure regulators  
with outlet pressure indication

# TORNADO Series L and LS

## Heavy duty single stage regulators with pressure-gauge

The TORNADO single stage, spring-loaded pressure regulator is a time and industry proven design that has evolved from more than 100 years of Messer German engineering experience and technology to ensure the accurate control of industrial gases with minimum outlet pressure fluctuations and comparatively high flowrates.

TORNADO regulators series L and LS is a visibly strong, no nonsense, durable construction that sets the standard for pressure regulators used throughout heavy duty welding, brazing, heating, cutting, gouging applications.

The TORNADO uses the most up-to-date production and testing facilities to ensure a reliable, versatile, affordable, high performance regulator.

Type L	Type LS	Standard	Gas Type	Inlet Pressure	Outlet Pressure	Art-No. L	Art-No. LS
L/E-O	LS/E-O	DIN	O <sub>2</sub> Oxygen	200 bar/2900 psi	10 bar/145 psi	770.51740	770.51741
L/B-O	LS/B-O	BSP				770.51742	770.51743
L/F-O	LS/F-O	NFE				770.51750	770.51751
L/AS-O	LS/AS-O	AS	C <sub>2</sub> H <sub>2</sub> Acetylene	20000 Kpa/2900 psi	1000 KPa/145 psi	770.51752	770.51753
L/E-A	LS/E-A	DIN				770.51756	770.51757
L/B-A	LS/B-A	BSP				770.51758	770.51759
L/F-A	LS/F-A	NFE	C <sub>3</sub> H <sub>8</sub> Propane	2500 Kpa/360 psi	150 KPa/22 psi	770.51766	770.51767
L/AS-A	LS/AS-A	AS				770.51768	770.51769
L/E-P	LS/E-P	DIN				770.51772	770.51773
L/B-P	LS/B-P	BSP	H <sub>2</sub> Hydrogen	25 bar/360 psi	2,5 bar/36 psi	770.51774	770.51775
L/F-P	LS/F-P	NFE				770.51782	770.51783
L/AS-P	LS/AS-P	AS				770.51784	770.51785
L/E-H	LS/E-H	DIN	Ar Argon	20000 Kpa/2900 psi	1000 KPa/145 psi	770.51788	770.51789
L/B-H	LS/B-H	BSP				770.51790	770.51791
L/F-H	LS/F-H	NFE				770.51798	770.51799
L/AS-H	LS/AS-H	AS	CO <sub>2</sub> Carbon Dioxide	200 bar/2900 psi	100 bar/145 psi	770.51800	770.51801
L/E-Ar	LS/E-Ar	DIN				770.51804	770.51805
L/B-Ar	LS/B-Ar	BSP				770.51806	770.51807
L/F-Ar	LS/F-Ar	NFE	N <sub>2</sub> Nitrogen	20000 Kpa/2900 psi	1000 KPa/145 psi	770.51814	770.51815
L/AS-Ar	LS/AS-Ar	AS				770.51816	770.51817
L/E-C	LS/E-C	DIN				770.51820	770.51821
L/B-C	LS/B-C	BSP	He Helium	100 bar/1450 psi	10 bar/145 psi	770.51822	770.51823
L/F-C	LS/F-C	NFE				770.51830	770.51831
L/AS-C	LS/AS-C	AS				770.51832	770.51833
L/E-N	LS/E-N	DIN	N <sub>2</sub> Nitrogen	200 bar/2900 psi	10 bar/145 psi	770.51836	770.51837
L/B-N	LS/B-N	BSP				770.51838	770.51839
L/F-N	LS/F-N	NFE				770.51846	770.51847
L/AS-N	LS/AS-N	AS	He Helium	20000 Kpa/2900 psi	1000 KPa/145 psi	770.51848	770.51849
L/E-He	LS/E-He	DIN				770.51852	770.51853
L/B-He	LS/B-He	BSP				200 bar/2900 psi	10 bar/145 psi
L/F-He	LS/F-He	NFE	He Helium	20000 Kpa/2900 psi	1000 KPa/145 psi	770.51862	770.51863
L/AS-He	LS/AS-He	AS				770.51864	770.51865



Left:  
TORNADO Type L

Right:  
TORNADO Type LS

- Designed in accordance to internationally recognized standards EN ISO, BSP, CGA, NFE and AS. Manufactured under the quality management of EN ISO 9001.
- 100 % Quality Assurance Testing. Heavy duty, durable construction. Forged brass body and housing cap. Ergonomically designed, colour coded pressure adjusting hand knob for comfortable operation.
- Unique Central Sintered filter protects valve seat from foreign particles and contaminants.
- Soft valve seat to ensure leak tightness and increase life span. Inlet and outlet pressure gauge with dual scale. Fire-retardant valve seat material. Outlet pressure relief valve ensures operator safety.
- Internal limit lock to prevent over pressurising of regulator. Unique, integrated, resettable design to limit outlet pressure. Large internal engineering to achieve comparatively high gas flow characteristics and pressure stability.
- Reduced maintenance and downtime due to maintenance-free technology.

**MESSER**   
Cutting Systems

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