

TORNADO

LAND 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.



TORNADO Type L



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.
- Internal design reduces gas velocity to prevents high pressure oxygen heat spots.
- 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.
- German engineered for optimum performance and long life.

TORNADO Type	Standard	Gas Type	Inlet Pressure	Working Pressure	Article No.
L/E-O	DIN	O ₂ Oxygen	200 bar 2900 psi	10 bar 145 psi	770.51740
LS/E-O					770.51741
L/B-O	BSP				770.51742
LS/B-O					770.51743
L/F-O	NFE				770.51750
LS/F-O					770.51751
L/AS-O	AS		20000 KPa 2900 psi	1000 KPa 145 psi	770.51752
LS/AS-O			770.51753		
L/E-A	DIN	C ₂ H ₂ Acetylene	25 bar 360 psi	1,5 bar 22 psi	770.51756
LS/E-A					770.51757
L/B-A	BSP				770.51758
LS/B-A					770.51759
L/F-A	NFE				770.51766
LS/F-A					770.51767
L/AS-A	AS		2500 KPa 360 psi	150 KPa 22 psi	770.51768
LS/AS-A			770.51769		
L/E-P	DIN	C ₃ H ₈ Propane	25 bar 360 psi	2,5 bar 36 psi	770.51772
LS/E-P					770.51773
L/B-P	BSP				770.51774
LS/B-P					770.51775
L/F-P	NFE				770.51782
LS/F-P					770.51783
L/AS-P	AS		2500 KPa 360 psi	250 KPa 36 psi	770.51784
LS/AS-P			770.51785		
L/E-H	DIN	H Hydrogen	200 bar 2900 psi	10 bar 145 psi	770.51788
LS/E-H					770.51789
L/B-H	BSP				770.51790
LS/B-H					770.51791
L/F-H	NFE				770.51798
LS/F-H					770.51799
L/AS-H	AS		20000 KPa 2900 psi	1000 KPa 145 psi	770.51800
LS/AS-H			770.51801		

TORNADO Type	Standard	Gas Type	Inlet Pressure	Working Pressure	Article No.
L/E-Ar	DIN	Ar Argon	200 bar 2900 psi	10 bar 145 psi	770.51804
LS/E-Ar					770.51805
L/B-Ar	BSP				770.51806
LS/B-Ar					770.51807
L/F-Ar	NFE				770.51814
LS/F-Ar					770.51815
L/AS-Ar	AS		20000 KPa 2900 psi	1000 KPa 145 psi	770.51816
LS/AS-Ar					770.51817
L/E-C	DIN	CO ₂ Carbon Dioxide	100 bar 1450 psi	10 bar 145 psi	770.51820
LS/E-C					770.51821
L/B-C	BSP				770.51822
LS/B-C					770.51823
L/F-C	NFE				770.51830
LS/F-C					770.51831
L/AS-C	AS		10000 KPa 1450 psi	1000 KPa 145 psi	770.51832
LS/AS-C					770.51833
L/E-N	DIN	N Nitrogen	200 bar 2900 psi	10 bar 145 psi	770.51836
LS/E-N					770.51837
L/B-N	BSP				770.51838
LS/B-N					770.51839
L/F-N	NFE				770.51846
LS/F-N					770.51847
L/AS-N	AS		20000 KPa 2900 psi	1000 KPa 145 psi	770.51848
LS/AS-N					770.51849
L/E-He	DIN	He Helium	200 bar 2900 psi	10 bar 145 psi	770.51852
LS/E-He					770.51853
L/B-He	BSP				770.51854
LS/B-He					770.51855
L/F-He	NFE				770.51862
LS/F-He					770.51863
L/AS-He	AS		20000 KPa 2900 psi	1000 KPa 145 psi	770.51864
LS/AS-He					770.51865

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