

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				20000 KPa 2900 psi	1000 KPa 145 psi	770.51742		
LS/B-O							770.51743		
L/F-O	NFE						770.51750		
LS/F-O							770.51751		
L/AS-O	AS		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	2500 KPa 360 psi						150 KPa 22 psi	770.51758
LS/B-A									770.51759
L/F-A	NFE				770.51766				
LS/F-A					770.51767				
L/AS-A	AS			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		2500 KPa 360 psi				250 KPa 36 psi		770.51774
LS/B-P									770.51775
L/F-P	NFE	770.51782							
LS/F-P		770.51783							
L/AS-P	AS	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			20000 KPa 2900 psi				1000 KPa 145 psi	770.51790
LS/B-H									770.51791
L/F-H	NFE		770.51798						
LS/F-H			770.51799						
L/AS-H	AS		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				20000 KPa 2900 psi	1000 KPa 145 psi	770.51806		
LS/B-Ar							770.51807		
L/F-Ar	NFE						770.51814		
LS/F-Ar							770.51815		
L/AS-Ar	AS		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	10000 KPa 1450 psi						1000 KPa 145 psi	770.51822
LS/B-C									770.51823
L/F-C	NFE				770.51830				
LS/F-C					770.51831				
L/AS-C	AS			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		20000 KPa 2900 psi				1000 KPa 145 psi		770.51838
LS/B-N									770.51839
L/F-N	NFE	770.51846							
LS/F-N		770.51847							
L/AS-N	AS	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			20000 KPa 2900 psi				1000 KPa 145 psi	770.51854
LS/B-He									770.51855
L/F-He	NFE		770.51862						
LS/F-He			770.51863						
L/AS-He	AS		770.51864						
LS/AS-He			770.51865						

Available from:
DIGITALWELD

www.digitalweld.co.nz

Unit D 17 Hobill Ave, Wiri, Manukau, NEW ZEALAND

PO Box 202001 Southgate, Takaniini 2246

Ph: +64 9 263 7099

Fax: +64 9 263 5062

Email: sales@digitalweld.co.nz



Edition 01/07

Subject to change without notice COM

© Messer Cutting & Welding GmbH

® registered trademark of

Messer Cutting & Welding GmbH

Messer Cutting & Welding GmbH

Oxyfuel Technology/Gas Supply Systems

Lärchenstraße 139a, D-65933 Frankfurt am Main

Phone +49 (0)69 38016-0

Fax +49 (0)69 38016-111