

# TORNADO

LFG and LSFG



Heavy duty single stage cylinder pressure regulators  
with outlet flow gauge

# TORNADO Series LFG and LSFG

## Heavy duty single stage regulators with flow-gauge

The TORNADO single stage, spring-loaded regulator with flow gauge 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 stable flow rates.

TORNADO regulators series LFG and LSFG is a visibly strong, no nonsense, durable construction that sets the standard for pressure regulators used throughout heavy duty welding, brazing, soldering, and gas shielding applications. The TORNADO uses the most up-to-date production and testing facilities to ensure a reliable, versatile, affordable, high performance regulator.

Type	Standard	Gas Type	Inlet Pressure	Flow Rate 1	Flow Rate 2	Art-No. 1	Art-No. 2
LFG/E-Ar	DIN	Ar Argon	200 bar/2900 psi	16 l/min / 34 scfh	32 l/min / 68 scfh	770.51951	770.51952
LSFG/E-Ar				16 l/min / 34 scfh	32 l/min / 68 scfh	770.51953	770.51954
LFG/B-Ar	BSP			16 l/min / 34 scfh	32 l/min / 68 scfh	770.51955	770.51956
LSFG/B-Ar				16 l/min / 34 scfh	32 l/min / 68 scfh	770.51957	770.51958
LFG/F-Ar	NFE			16 l/min / 34 scfh	32 l/min / 68 scfh	770.51959	770.51960
LSFG/F-Ar				16 l/min / 34 scfh	32 l/min / 68 scfh	770.51961	770.51962
LFG/AS-Ar	AS	20000 KPa/2900 psi	16 l/min / 34 scfh	32 l/min / 68 scfh	770.51963	770.51964	
LSFG/AS-Ar		16 l/min / 34 scfh	32 l/min / 68 scfh	770.51965	770.51966		
LFG/E-C	DIN	CO <sub>2</sub> Carbon Dioxide	100 bar/1450 psi	16 l/min / 34 scfh	32 l/min / 68 scfh	770.51967	770.51968
LSFG/E-C				16 l/min / 34 scfh	32 l/min / 68 scfh	770.51969	770.51970
LFG/B-C	BSP			16 l/min / 34 scfh	32 l/min / 68 scfh	770.51971	770.51972
LSFG/B-C				16 l/min / 34 scfh	32 l/min / 68 scfh	770.51973	770.51974
LFG/F-C	NFE			16 l/min / 34 scfh	32 l/min / 68 scfh	770.51975	770.51976
LSFG/F-C				16 l/min / 34 scfh	32 l/min / 68 scfh	770.51977	770.51978
LFG/AS-C	AS	10000 KPa/1450 psi	16 l/min / 34 scfh	32 l/min / 68 scfh	770.51979	770.51980	
LSFG/AS-C		16 l/min / 34 scfh	32 l/min / 68 scfh	770.51981	770.51982		
LFG/E-N	DIN	N <sub>2</sub> Nitrogen	200 bar/2900 psi	16 l/min / 34 scfh	32 l/min / 68 scfh	770.51983	770.51984
LSFG/E-N				16 l/min / 34 scfh	32 l/min / 68 scfh	770.51985	770.51986
LFG/B-N	BSP			16 l/min / 34 scfh	32 l/min / 68 scfh	770.51987	770.51988
LSFG/B-N				16 l/min / 34 scfh	32 l/min / 68 scfh	770.51989	770.51990
LFG/F-N	NFE			16 l/min / 34 scfh	32 l/min / 68 scfh	770.51991	770.51992
LSFG/F-N				16 l/min / 34 scfh	32 l/min / 68 scfh	770.51993	770.51994
LFG/AS-N	AS	20000 KPa/2900 psi	16 l/min / 34 scfh	32 l/min / 68 scfh	770.51995	770.51996	
LSFG/AS-N		16 l/min / 34 scfh	32 l/min / 68 scfh	770.51997	770.51998		
LFG/E-H	DIN	H <sub>2</sub> Hydrogen	200 bar/2900 psi	16 l/min / 34 scfh	32 l/min / 68 scfh	770.51999	770.52000
LSFG/E-H				16 l/min / 34 scfh	32 l/min / 68 scfh	770.52001	770.52002
LFG/B-H	BSP			16 l/min / 34 scfh	32 l/min / 68 scfh	770.52003	770.52004
LSFG/B-H				16 l/min / 34 scfh	32 l/min / 68 scfh	770.52005	770.52006
LFG/F-H	NFE			16 l/min / 34 scfh	32 l/min / 68 scfh	770.52007	770.52008
LSFG/F-H				16 l/min / 34 scfh	32 l/min / 68 scfh	770.52009	770.52010
LFG/AS-H	AS	20000 KPa/2900 psi	16 l/min / 34 scfh	32 l/min / 68 scfh	770.52011	770.52012	
LSFG/AS-H		16 l/min / 34 scfh	32 l/min / 68 scfh	770.52013	770.52014		



Left:  
TORNADO Series LFG

Right:  
TORNADO Series LSFG

- 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 precise operation
- Unique Central Sintered filter protects valve seat from foreign particles and contaminants
- Internal design reduces gas velocity to prevent fluctuation of valve seat

- Soft valve seat to ensure leak tightness and increase life span
- Inlet pressure gauge and outlet flow gauge with dual scale
- Fire-retardant valve seat material
- Outlet pressure relief valve ensures operator safety
- Internal limit lock to ensure stable and constant gas flow rate
- Internal throttle ensures accurate and stable gas flow
- 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

**MESSER**   
Cutting Systems

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