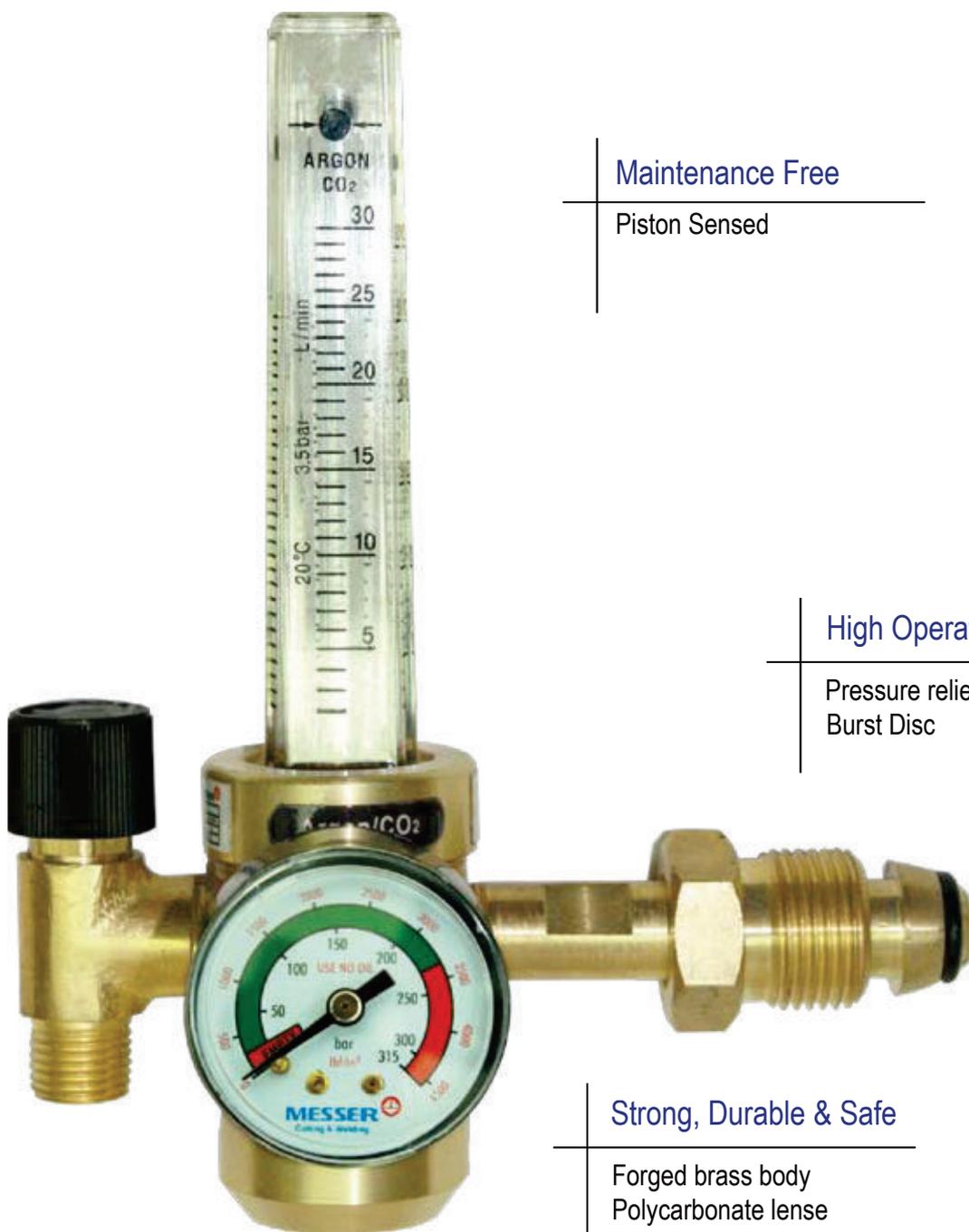


EN  
ISO 9001

# TORNADO

Reliable, Versatile & Compact Internationally Proven



Maintenance Free

Piston Sensed

High Operator Safety

Pressure relief valve  
Burst Disc

Strong, Durable & Safe

Forged brass body  
Polycarbonate lense

Accurate control

Minimum pressure fluctuation

Sintered Inlet Filter

Prevents dust and contaminants  
from entering the regulator

**Heavy Duty**

**Cylinder Flowmeter Regulator**

## TORNADO W

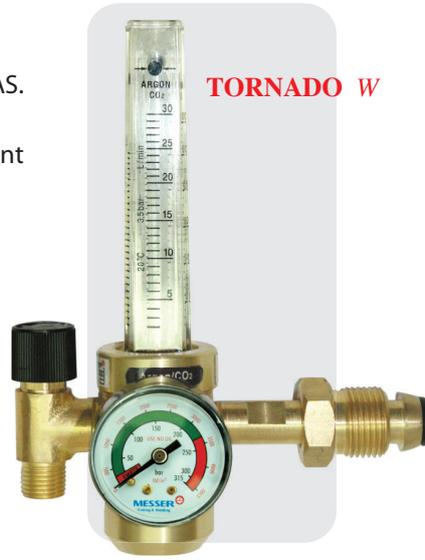
### HEAVY DUTY SINGLE STAGE REGULATOR WITH FLOW-METER

The **TORNADO W** single stage, pressure regulator with flow meter arises from more than 100 years of Messer German engineering experience and technology to ensure the accurate control of gases with a very stable outlet pressure and flow rate.

**TORNADO W** regulator series is compact and designed to meet the demands in gas shielding applications.

Produced using up-to-date production facilities the **TORNADO W** exceeds original performance requirements and provides an economical and reliable tool for the welding industry.

- ✓ Designed in accordance to internationally recognized standards EN ISO, BSP, NFE and AS.
- ✓ Manufactured under the quality management of EN ISO 9001.
- ✓ Heavy duty, durable construction.
- ✓ Forged brass body and housing cap.
- ✓ Heavy duty flow meter with shatter proof polycarbonate lens.
- ✓ Pressure relief valve & Burst Disc on flow meter to ensure maximum safety.



- ✓ Flow-meter with dual scale
- ✓ Outlet pressure relief valve on regulator body ensures operator safety.
- ✓ Unique internal engineering ensures stable pressure to flow meter to ensure accurate and stable gas flow.
- ✓ German engineered for optimum performance and long life.
- ✓ Sintered filter protects valve seat from foreign particles and contaminants.

### ORDERING INFORMATION

Example: **TORNADO W/B-X**

= Series (W) / Standard (British) / Gas (Ar/CO<sub>2</sub>)

Gas Type	Gas Code	Inlet Connection				
		DIN (E)	BSP (B)	CGA (U)	NFE (F)	AS (AS)
Argon	Ar	W21,8x1/14 <sup>cs</sup> -RH(F)	G 5/8 <sup>cs</sup> -RH(M)	0,960 <sup>cs</sup> x1/14 <sup>cs</sup> -RH(M)	W21,7x1/14 <sup>cs</sup> -RH(F)	G 5/8 <sup>cs</sup> -RH(M)
Carbon Dioxide	C	W21,8x1/14 <sup>cs</sup> -RH(F)	0,860 <sup>cs</sup> x1/14 <sup>cs</sup> -RH(F)	0,830 <sup>cs</sup> x1/14 <sup>cs</sup> -RH(F)	W21,7x1/14 <sup>cs</sup> -RH(F)	0,860 <sup>cs</sup> -14 T.P.I.RH(F)
Ar/CO <sub>2</sub>	X	W21,8x1/14 <sup>cs</sup> -RH(F)	G 5/8 <sup>cs</sup> -RH(M)	0,960 <sup>cs</sup> x1/14 <sup>cs</sup> -RH(M)	W21,7x1/14 <sup>cs</sup> -RH(F)	G 5/8 <sup>cs</sup> -RH(M)

Gas Type	Gas Code	Outlet Connection				
		DIN	BSP	CGA	NFE	AS
Argon	Ar	G 1/4-RH(M)	G 3/8-RH(M)	9/16 <sup>cs</sup> NF-RH(M)	G 1/4-RH(M)	5/8 UNF-RH(M)
Carbon Dioxide	C	G 1/4-RH(M)	G 3/8-RH(M)	9/16 <sup>cs</sup> NF-RH(M)	G 1/4-RH(M)	5/8 UNF-RH(M)
Ar/CO <sub>2</sub>	X	G 1/4-RH(M)	G 3/8-RH(M)	9/16 <sup>cs</sup> NF-RH(M)	G 1/4-RH(M)	5/8 UNF-RH(M)

Gas Type	Model	Part No.	Model	Part No.						
Argon	W/E-Ar	770.21047	W/B-Ar	770.53952	W/U-Ar	770.21041	W/F-Ar	770.21038	W/AS-Ar	770.21035
Carbon Dioxide	W/E-C	770.21048	W/B-C	770.53953	W/U-C	770.21042	W/F-C	770.21039	W/AS-C	770.21036
Ar/CO <sub>2</sub>	W/E-X	770.21049	W/B-X	770.53951	W/U-X	770.21043	W/F-X	770.21040	W/AS-X	770.21037

Your authorized Messer distributor:

Part of the Messer World 



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