

TORNADO

LD and LSD



Heavy duty double stage cylinder pressure regulators
with outlet pressure-gauge

TORNADO Series LD and LSD

Heavy duty double stage regulators with pressure-gauge

The TORNADO double stage regulator, first stage piston-loaded and second stage spring-loaded, with pressure 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 outlet pressures.

TORNADO regulators series BD and BSD are 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 LD	Type LSD	Standard	Gas Type	Inlet Pressure	Outlet Pressure	Art-No. LD	Art-No. LSD
LD/E-O	LSD/E-O	DIN	O ₂ Oxygen	200 bar/2900 psi 20000 KPa	10 bar/145 psi 1000 KPa	770.52430	770.52431
LD/B-O	LSD/B-O	BSP				770.52432	770.52433
LD/F-O	LSD/F-O	NFE				770.52436	770.52437
LD/AS-O	LSD/AS-O	AS	H ₂ Hydrogen	200 bar/2900 psi 20000 KPa	10 bar/145 psi 1000 KPa	770.52438	770.52439
LD/E-H	LSD/E-H	DIN				770.52440	770.52441
LD/B-H	LSD/B-H	BSP				770.52442	770.52443
LD/F-H	LSD/F-H	NFE	Ar Argon	200 bar/2900 psi 20000 KPa	10 bar/145 psi 1000 KPa	770.52446	770.52447
LD/AS-H	LSD/AS-H	AS				770.52448	770.52449
LD/E-Ar	LSD/E-Ar	DIN				770.52450	770.52451
LD/B-Ar	LSD/B-Ar	BSP	CO ₂ Carbon Dioxide	200 bar/2900 psi 20000 KPa	10 bar/145 psi 1000 KPa	770.52452	770.52453
LD/F-Ar	LSD/F-Ar	NFE				770.52456	770.52457
LD/AS-Ar	LSD/AS-Ar	AS				770.52458	770.52459
LD/E-C	LSD/E-C	DIN	N ₂ Nitrogen	100 bar/1450 psi 10000 KPa	10 bar/145 psi 1000 KPa	770.52460	770.52461
LD/B-C	LSD/B-C	BSP				770.52462	770.52463
LD/F-C	LSD/F-C	NFE				770.52466	770.52467
LD/AS-C	LSD/AS-C	AS	He Helium	200 bar/2900 psi 20000 KPa	10 bar/145 psi 1000 KPa	770.52468	770.52469
LD/E-N	LSD/E-N	DIN				770.52470	770.52471
LD/B-N	LSD/B-N	BSP				770.52472	770.52473
LD/F-N	LSD/F-N	NFE	He Helium	200 bar/2900 psi 20000 KPa	10 bar/145 psi 1000 KPa	770.52476	770.52477
LD/AS-N	LSD/AS-N	AS				770.52478	770.52479
LD/E-He	LSD/E-He	DIN				770.52480	770.52481
LD/B-He	LSD/B-He	BSP	He Helium	200 bar/2900 psi 20000 KPa	10 bar/145 psi 1000 KPa	770.52482	770.52483
LD/F-He	LSD/F-He	NFE				770.52486	770.52487
LD/AS-He	LSD/AS-He	AS				770.52488	770.52489



Left:
TORNADO Type LD

Right:
TORNADO Type LSD

- Designed according to the most current internationally recognized standards EN ISO, BSP, CGA, NFE and AS
- Manufactured under the quality management of EN ISO 9001
- 100 % tested before despatch
- Compact and economically designed double stage construction
- The forged brass body and housing cap machined from class "A" brass bar stock to obtain maximum strength and serviceability
- First stage piston type regulator and second stage 2" diaphragm regulator provide performance of both stages, are fatigue resistant, and will give long, trouble-free service
- Economically designed and colour coded adjusting handwheel
- Fire-retardant valve material.
- Soft valve seat for longer life span
- Inlet and outlet pressure gauge with dual scale (bar and psig)
- Replaceable sintered inlet filter prevents foreign matter entering regulator, reduces velocity of gas, prevents high pressure oxygen heat spots
- Inlet and outlet pressure gauge with dual scale (bar and psig)
- External pressure relief valve prevents damage to diaphragm and ensures operator safety
- Unique, integrated outlet pressure locking device
- Integrated outlet pressure restriction prevents damage to diaphragm
- Outlet pressure stability permits a steady flow of gases
- Single modular component
- Reduced maintenance and downtime due maintenance-free technology
- Precision engineered for optimum performance and long life
- Weight: 2,13 kg / 4 lbs 11 oz



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