

Two Stage Regulators

Designed to withstand the rigours of hard daily use, the Wescol "TS" series of two-stage regulators are manufactured to Wescol's high standard of workmanship.

Precision engineered, using all brass stampings, the regulators incorporate many features which improve reliability and extend service life. Along with many inbuilt safety devices, these features afford maximum protection in the event of individual or operational abuse.

Pressure and flow control are highly sensitive and the regulators are built to the highest standards to ensure excellent performance under all operating conditions.

All "TS" series regulators comply with British (BS 5741 & 7650) and International (ISO 2503) standards.

PISTON OPERATED FIRST STAGE.

To eliminate the problems associated with traditional first stage diaphragms, Wescol have used a solid brass piston in the "TS" series. This piston not only provides greatly increased reliability and durability but also minimises the safety hazards associated with first stage diaphragm failure.

BONNET VENTS.

Vent holes are provided in both first and second stage regulator bonnets, along with a bursting disc in the second stage diaphragm. These features ensure even if all other safety devices fail, that the gas is efficiently vented, thereby reducing the risk of injury to personnel and damage to equipment.

BRASS CONSTRUCTION FOR ALL KEY COMPONENTS

The regulator body and bonnet are manufactured from quality brass stampings, these and other key components all comply with BS 2872. This ensures a high degree of strength and corrosion resistance.



SAFETY GAUGES. (BS6752 - ISO5171)

All "TS" series regulators are fitted with safety gauges incorporating rear blow out discs which ensure that in situations where a gauge fails due to over pressurisation, the gas is safely vented through the back of the gauge.

SAFETY RELIEF VALVE.

"TS" series regulators designed for gases with high cylinder pressure are fitted with reliable, self-resealing pressure relief valves to ensure protection of the low pressure chamber and outlet pressure gauge. This relief valve is so positioned that in normal circumstances excess pressure would be safely vented vertically upwards, away from the operator.

INLET FILTER

The sintered bronze inlet filter reduces the possibility of combustion due to the ingress of foreign matter at high velocity.

WIDE RANGE OF OPTIONS

The Wescol "TS" Regulator Series is designed to meet all conditions and a number of options are available.

1 CONTENTS INDICATOR

The "TS" series regulators are supplied with 2 gauges (contents and outlet pressure) but for applications where more arduous conditions exist, and rugged performance allied to precise control is vital, a contents indicator version is available.

2 VARIETY OF GASES & FITTINGS

In keeping with Wescol's policy of flexibility and customer service, the 'TS' series is suitable for a wide range of non-corrosive gases and can be supplied with inlet and outlet fittings to comply with most International Standards.

3 SIDE ENTRY

Side entry versions of all 'TS' series are available. Specify SE after terminology.

4 PRESET PRESSURE

Preset versions are available across the range, provided the pressure required is stated. Specify PRESET (pressure in Bar or PSI) after terminology.

5 LABORATORY VERSIONS

Specifically designed for laboratory applications, a low outlet pressure model (0-10 PSI) is available for use with most gauges.

SPECIFICATIONS

SIDE ENTRY

Available for all gases and pressures. Specify SE after terminology.

OTHER GASES

For commonly used gases specify by the following abbreviations: Air - Air, Nitrous Oxide - N2O, Helium - He, Hydrogen - H, Methane - CH4, Nitrogen - N.

PRESET

Specify PRESET (pressure in Bar or PSI) after terminology.

FREE FLOW

Shielding gas regulators for Argon and CO2 fitted with restricted outlet act as metering regulators indicating flows. If a flowmeter is to be used, a free flow regulator with standard outlet is required. Specify FF after terminology.

SAFETY

For safety operating procedures refer to Wescol 'Operator Instruction Data Booklet'.

Gas	Type	Part No.	Terminology	Max. Outlet Pressure		Max. Flow	
				Bar	PSI	M ³ /h	Ft ³ /h
Oxygen	2 gauge	0103-001	TS 0-2.0 2G	2.0	30.0	36.0	1270
		0103-002	TS 0-3.5 2G	3.5	50.0	60.0	2118
		0103-003	TS 0-10.0 2G	10.0	145.0	66.0	2329
Acetylene	2 gauge	0103-010	TS A-0.6 2G	0.625	9.0	12.0	430
		0103-011	TS A-1.5 2G	1.5	22.5	17.0	620
Air	2 gauge	0103-020	TS Air-2.0 2G	2.0	30.0	36.0	1270
		0103-021	TS Air-3.5 2G	3.5	50.0	60.0	2118
		0103-022	TS Air-10.0 2G	10.0	145.0	66.0	2329
Argon	2 gauge	0103-030	TS Arg-2.0 2G	2.0	30.0	0.8	30
		0103-031	TS Arg-3.5 2G	3.5	50.0	1.4	50
		0103-032	TS Arg-10.0 FF 2G	10.0	145.0	56.0	1969
CO2	2 gauge	0103-040	TS CO2-2.0 2G	2.0	30.0	0.8	30
		0103-041	TS CO2-3.5 2G	3.5	50.0	1.4	50
		0103-042	TS CO2-10.0 FF 2G	10.0	145.0	53.0	1885
Nitrogen	2 gauge	0103-050	TS N-2.0 2G	2.0	30.0	37.0	1296
		0103-051	TS N-3.5 2G	3.5	50.0	61.0	2160
		0103-052	TS N-10.0 2G	10.0	145.0	67.0	2372
Helium	2 gauge	0103-060	TS He-2.0 2G	2.0	30.0	97.0	3418
		0103-061	TS He-3.5 2G	3.5	50.0	161.0	5697
		0103-062	TS He-10.0 2G	10.0	145.0	177.0	6267
Hydrogen	2 gauge	0103-070	TS H-2.0 2G	2.0	30.0	136.0	4816
		0103-071	TS H-3.5 2G	3.5	50.0	227.0	8027
		0103-072	TS H-10.0 2G	10.0	145.0	254.0	9000
Oxygen	Contents Indicator	0103-075	TS O-10.0 CI	10.0	145.0	66.0	2329
Acetylene	Contents Indicator	0103-076	TS A-1.5 CI	1.5	22.5	17.0	620
Oxygen	Laboratory 2 gauge	0103-080	TS Lab-O 2G	-	10.0	18.0	635
Air	Laboratory 2 gauge	0103-081	TS Lab-Air 2G	-	10.0	18.0	635
Argon	Laboratory 2 gauge	0103-082	TS Lab-Arg 2G	-	10.0	15.0	540
CO2	Laboratory 2 gauge	0103-083	TS Lab-Arg CO2 2G	-	10.0	14.0	529
Nitrogen	Laboratory 2 gauge	0103-084	TS Lab-Arg N 2G	-	10.0	19.0	659
Helium	Laboratory 2 gauge	0103-085	TS Lab-Arg He 2G	-	10.0	48.0	1709
Hydrogen	Laboratory 2 gauge	0103-086	TS Lab-H 2G	-	10.0	68.0	2408