



Test gauge De Wit model 4501RS/250

Bourdon tube test gauges with accuracy cl. 0,25 De Wit 4501RS Series

For applications where high accuracy is required: calibration or adjustment of pressure gauges, transducers and transmitters, process control

Standard specifications

Case size	250 mm, 160 mm
Case material	stainless steel AISI 304
Execution	dry (airvent on top = blow-out device and filler plug)
Bezel	bayonet lock, polished stainless steel AISI 304
Environmental rating	
Dry execution	IP54
Liquid filled execution	IP65 (160 mm only)
Dial	aluminium, white with black markings and anti-parallax mirror scale
Ranges	
Vacuum	-1/0 bar
Compound	-1/+24 bar
Pressure	0-0,6 up to 1600 bar
or all other equivalent ranges	
Accuracy	cl. 0,25 to EN 837-1
Pressure connection	½" BSP male or ½" NPT male
Connection material	316 SS
Bourdon tube material	
Ranges 0,6 ... 40 bar	316 SS, C-shaped
Range 60 bar	CrMo52, C-shaped
Ranges 100 ... 1600 bar	CrMo52, spiral wound
Movement	non ferrous, low friction movement
Pointer	knife edge version, aluminium, black finish
Pointer deflection	330 degrees
Window	laminated safety glass
Identification	unique serial number on dial
Overload (EN 837-1)	
Steady	full scale value
Fluctuating	0,9 x full scale value
Short time	1,3 x full scale value

Temperature limitations

Ambient temperature	
Dry versions	-40 / +60 °C
Liquid filled versions	-20 / +60 °C
Medium temperature	+100 °C
Reference temperature	Calibration reference temperature +20 °C
Temperature effect	deviation max. +/- 0,4 %/10K of full scale value
Calibration medium	upto 2,5 bar: air (G), above 2,5 bar: oil (F)

Options

Liquid filled execution (add V to model number, only available for 160 mm without anti-parallax mirror dial)
Special scales (dual scales, scales in kg/cm², kPa)
316 SS case (160 mm dia only)
Customised dial (company logo, special inscriptions)
Other pressure connections, for example ¼" NPT male or high pressure connections
Upper/side connection (radial at 3 o'clock, 9 o'clock or 12 o'clock)
Restrictor screw
Window material makrolon

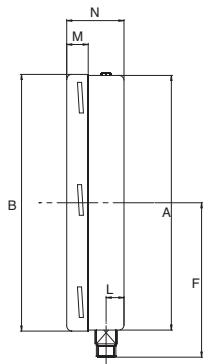
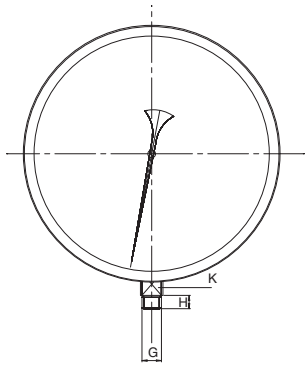
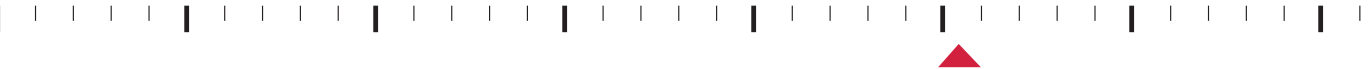
Certificates

2.1 Declaration of Compliance (EN10204:2004)
2.2 Test Report (EN10204:2004)
De Wit factory calibration certificate (traceable to (inter)national standards)

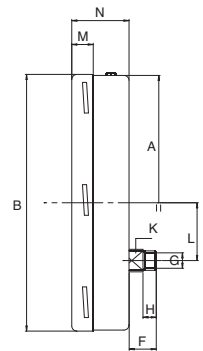
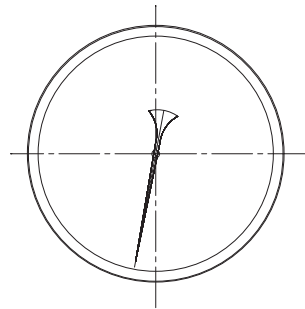
The requirement of a certificate has to be specified at time of order

If the gauge meets the accuracy requirements on only gas or liquid this will be marked on the dial.

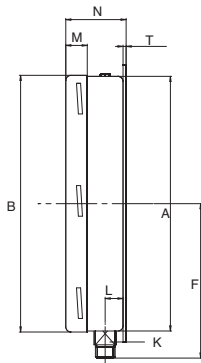
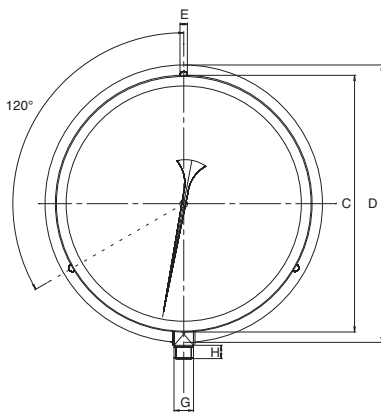
Tested on air	G / TESTED ON AIR
Tested on oil	F / TESTED ON OIL



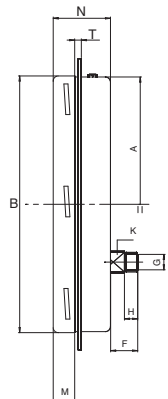
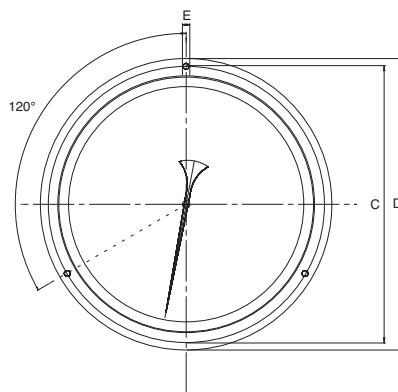
4501RS/250



4504RS/250



4503RS/250



4505RS/250

Type	Dia	ØA	ØB	p.c.C	ØD	ØE	F	G	H	J	K	L	M	N	O	R	S	T	U
4501RS, 4503RS	250	249	251	270	285	5,8	165	½" NPT	20	-	22	16	21	57	21	-	-	3	-
4504RS, 4505RS	250	249	251	270	285	5,8	41	½" NPT	20	3,5	17	52	21	57	21	-	-	3	-

Dimensional data size 160 mm on general data sheet st. steel pressure gauges De Wit 91(V) series

Ordering Information

Model - Size - Range - Measuring Unit - Connection thread type and size - Options

Special executions: Please clearly specify your requirements