



Precision gauge De Wit model 181RR/160

Bourdon tube precision gauges with accuracy cl. 0,6 De Wit 181R(V) Series

181R series - For exact pressure measurement and pressure testing of for example tanks, pipes, valves etc

181RV series - Glycerine filled execution for applications where it is necessary to protect the internals against vibrations and pulsations. Also recommended to exclude condensation (outdoor installation). Not for use in chlorine or oxygen service!

Standard specifications

Case size	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
Dial	aluminium, white with black markings
Ranges	
Vacuum	-1/0 bar
Compound	-1/+24 bar
Pressure	0-0,6 bar up to 1600 bar
or all other equivalent ranges	
Accuracy	d. 0,6 to EN 837-1
Pressure connection	½" BSP male or ½" NPT male
Connection material	316 SS
Bourdon tube material	
Ranges 0-0,6 bar ... 0-40 bar	316 SS
Ranges 0-60 bar ... 0-1600 bar	CrMo52
Movement	non ferrous, low friction movement
Pointer	knife edge version, aluminium, black finish
Pointer deflection	270 degrees
Window	laminated safety glass
Glycerine filling	80% glycerine, 20% water (add V to model number)
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

Options

Case size 250 mm (dry execution only)
 316 SS wetted parts (for ranges 60 bar upto and including 1600 bar, add R to model number)
 Special scales (dual scales, scales in kg/cm², kPa)
 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

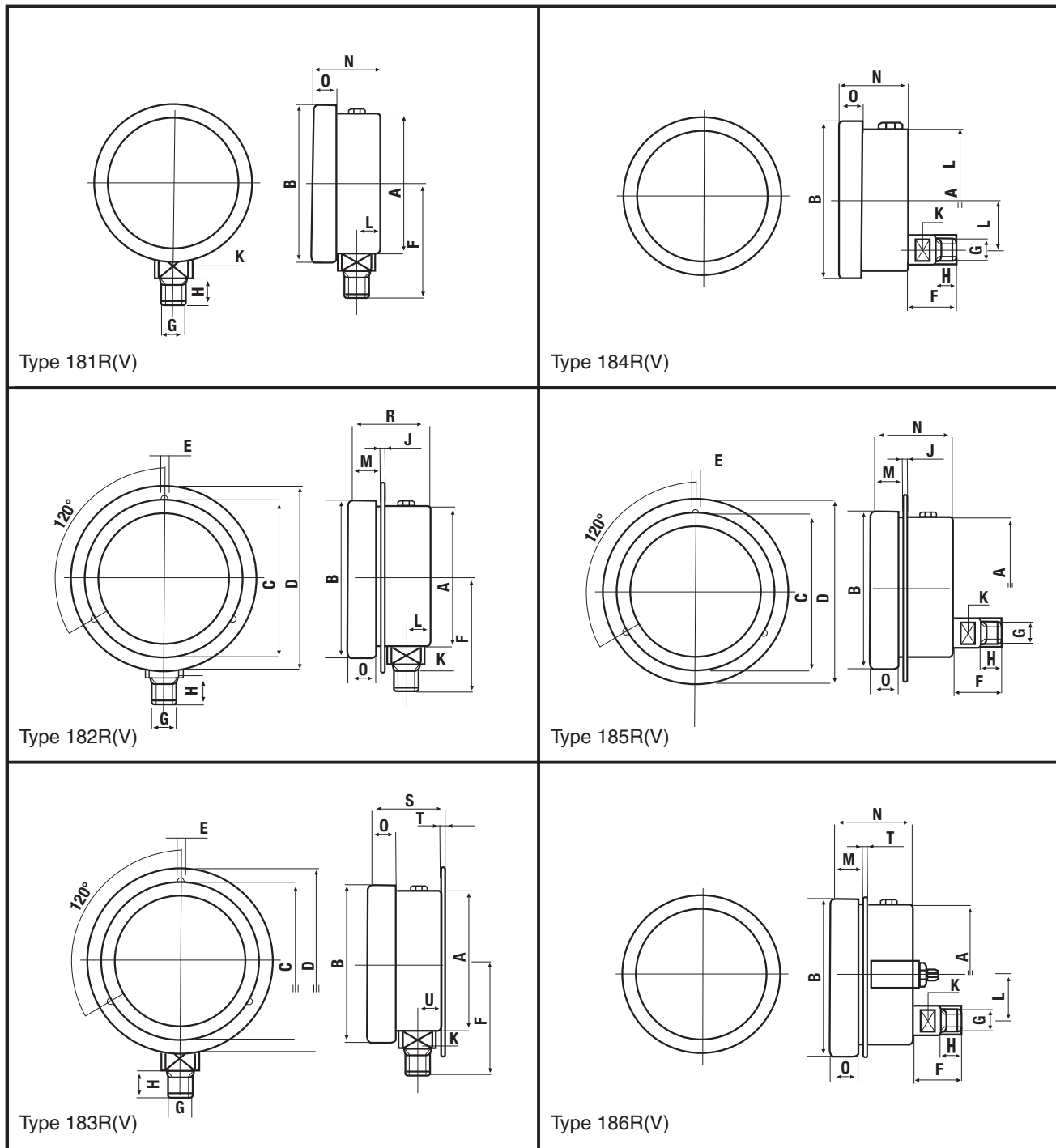
Accessoires

St. steel overrange protector De Wit model 7480SS (max. working pressure 700 bar)
 Precision gauge carrying case

Certificates

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

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



Type	Dia	ØA	ØB	p.c.C	ØD	ØE	F	G	H	J	K	L	M	N	O	R	S	T	U
181R(V),182R(V),183R(V)	Ø 160	159	172	178	196	5,8	118	½" NPT	20	3,5	22	16	20	50	17	55	54	7	22
184R(V),185R(V),186R(V)	Ø 160	159	172	178	196	5,8	41	½" NPT	20	3,5	17	52	20	55	17			1,3	

Ordering Information

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

Special executions: Please clearly specify your requirements