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P-1C



31L, 31B Series

- ±0.25% Accuracy
- Polished Mirror Band and Knife-edge Pointer to reduce parallax error
- Temperature Compensated Element to reduce temperature error
- Zero Adjustable Dial

HAWK type 31L and 31B are designed for the industrial applications where a higher degree of accuracy is required and operator errors must be minimized. Improved dial and pointer result in excellent viewing. Polished mirror band and knife-edge pointer with red painted tip let users read scale without parallax error. White dial background with large numbers and graduations results in excellent readability. External adjustable pointer facilitates compensation for calibration adjustment.

Typical Application

- Industrial test laboratories
- Monitoring of the testing device
- Measuring workshop systems
- Control workshop systems
- All equipment require high accuracy performance

Specification

Operating

Steady: 100%*full scale value Pulsation: 90%*full scale value Sudden: 130%*full scale value

The appropriate operating range falls in the middle half of the gauge (25% to 75% of full scale). If you choose the unsuitable range, the fatigue of bourdon tube may be resulted. HAWK supplies a wide selection of range from vacuum to 10,000 PSI including compound range.

Temperature limit

Ambient: -40 to 70°C

Media: max 70°C-Brass Wetted Parts

100°C-SS316 Wetted Parts

Temperature effect

Accuracy of measurement will be affected by the temperature change. This inaccuracy may as high as ±0.3% for 12°C temperature change.

Dial Size

4 1/2"(115mm) or 6"(150mm).

Case&Ring

Aluminum case and ring with black enamel.

Socket

Brass, 316 Stainless Steel, 316L Stainless Steel or Monel K400.

Movement

Stainless steel movement.

Bourdon Tube

Brass, 316L-Stainless Steel or Monel K500.

Window

Tempered safety glass-standard. Polycarbonate or Laminated safety glass-optional.

Pointer

Aluminum.

Accuracy

±0.25% of span (ASME B40.1 Grade 3A)

Scale

PSI, kPa, Mpa, bar, kg/cm2, inHg, cmHg, torr, mmHg (single or dual scale), others on request.

Connection

1/2", 1/4" NPT standard, JIS, DIN, M20*1.5 available.

Mounting

Local or Panel Mounting.

Weatherproof

NEMA 3/3X, IP54 enclosure.

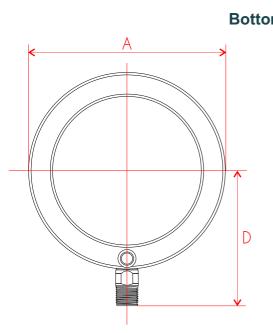


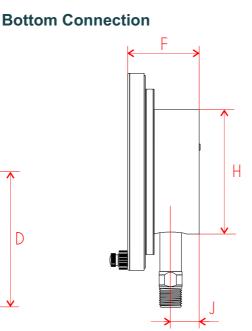


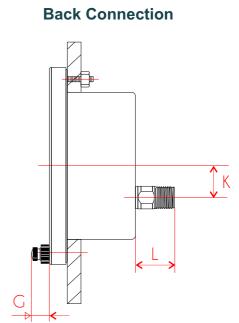
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Dimensions

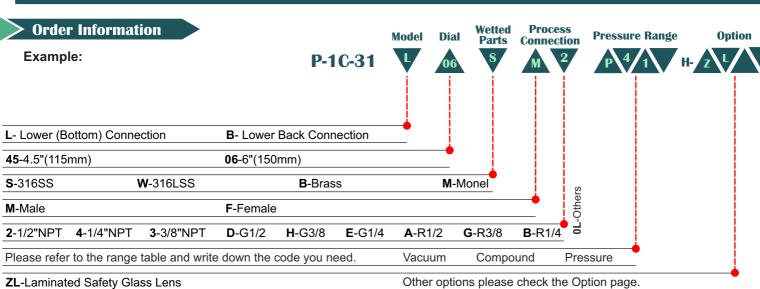






Dimensions in mm.

Type No	Dial Size	Α	В	С	D	F	G	Н	J	K	L	Weight
31L	4.5"	6.18" (157)			4.37" (111)	2.42" (61.5)	0.69" (17.5)	4.77" (121)	0.91" (23)			0.83-0.99 Kg
31B	4.5"	6.18" (157)				2.42" (61.5)	0.69" (17.5)	4.77" (121)		1.20" (30.4)	1.62" (41)	0.83-0.99 Kg
31L	6"	7.56" (192)			5.20" (132)	2.75" (69.8)	0.69" (17.5)	4.77" (121)	1.10" (27.9)			1.35-1.48 Kg
31B	6"	7.56" (192)				2.75" (69.8)	0.69" (17.5)	4.77" (121)		1.20" (30.4)	1.52" (38.5)	1.35-1.48 Kg



Pressure Temperature Leve

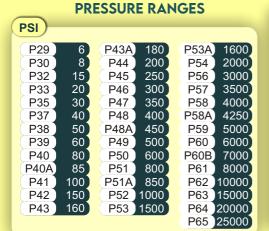


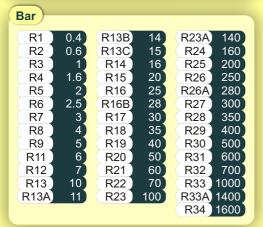
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Pressure Range

- The other scales and ranges not listed are available in request.
- Not all listed ranges and scales are in stock, consult your distributors for the detailed information.

Code Range







VACUUM RANGES inHg Bar) kPa Kg/cm2 PV1 -30/0 RV1 -1/0 KV1 -0.04 GV1 -1/0

PSI)

PCA1

PCA

PCB

PCC)

PCD)

PCF VAC

PCG VAC/2

PCH VAC/

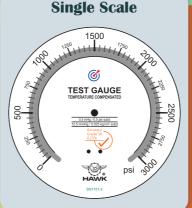
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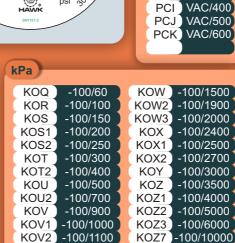
VAC

VAC

VAC

VAC PCE VAC





Valom2							
Kg/cm2							
G1	0.4	G13C	14	G23A	140		
G2	0.6	G13B	15)	G24	160		
G3	1)	G14	16)	G25	200		
G4	1.6	G15	20	G26	250		
G5	2)	G16	25)	G26A	280		
G6	2.5	G16A	28	G27	300		
G7	3)	(G17)	30	G28	350		
G9	4	G18	35	G29	400		
G10	5)	(G19)	40)	G30	500		
G11	6)	G20	50	G31	600		
G12	7)	G21	60)	G32	700		
G13	10	G22	70	G33	1000		
G13A	11)	G23	100	G33A	1400		
				G34	1600		

KOV2 -100/1100

KOV4 -100/1400

COMPOUND RANGES

	(Bar)			
	Dai			
8.5	RCA	-1/0.6	RCP	-1/15
/15	RCB	-1/1	RCR	-1/19
/30	RCC	1-1/1.5	RCS	-1/20
/60	RCD	-1/2	RCT	-1/24
100	RCE	1-1/2.5	RCU	-1/25
150	RCF	-1/3	RCV	-1/27
160	RCG	-1/4	RCW	-1/30
200	RCH	-1/5	RCW1	-1/35
300	RCJ	-1/7	RCX	-1/40
400	RCK	-1/9	RCY	-1/50
500	RCL	-1/10	RCZ	-1/60
600	RCM	-1/11	RC0	-1/100
	RCO	-1/14		

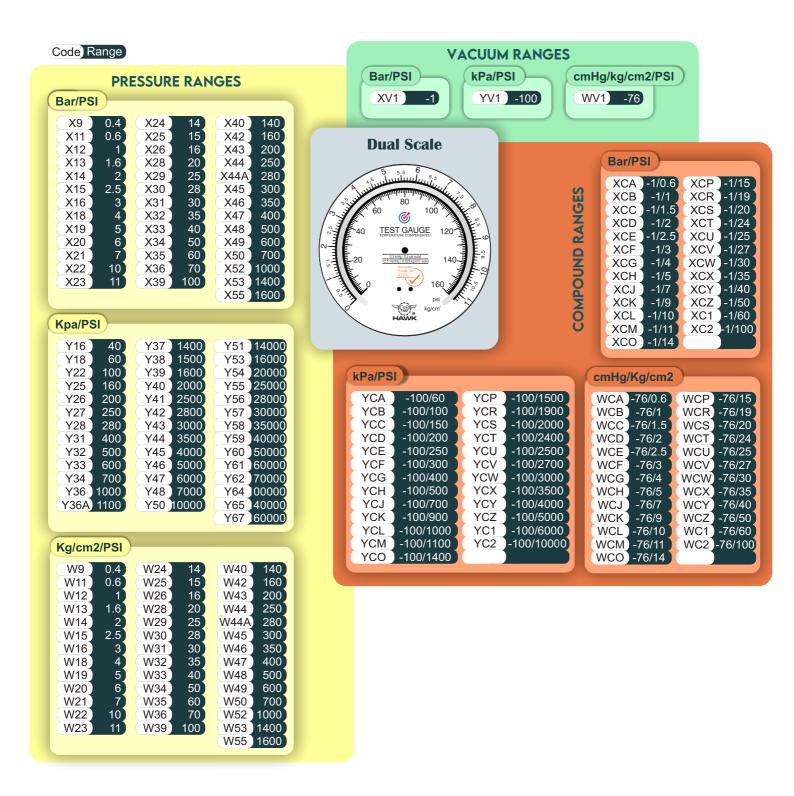
Kg/cm	2		
CCA	1/0.6	CCD	1/15
GCA	1-1/0.6	GCP	-1/15
GCB	-1/1	GCR	-1/19
(GCC)	1-1/1.5	(GCS)	-1/20
(GCD)	-1/2	GCT	-1/24
GCE	-1/2.5	GCU	-1/25
GCF	-1/3	GCV	-1/27
GCG	-1/4	GCW	-1/30
GCH	-1/5	GCW1	-1/35
GCJ	-1/7	GCX	-1/40
GCK	-1/9	GCY	-1/50
GCL	-1/10	GCZ	-1/60
GCM	-1/11	GC0	-1/100
GCO	-1/14		



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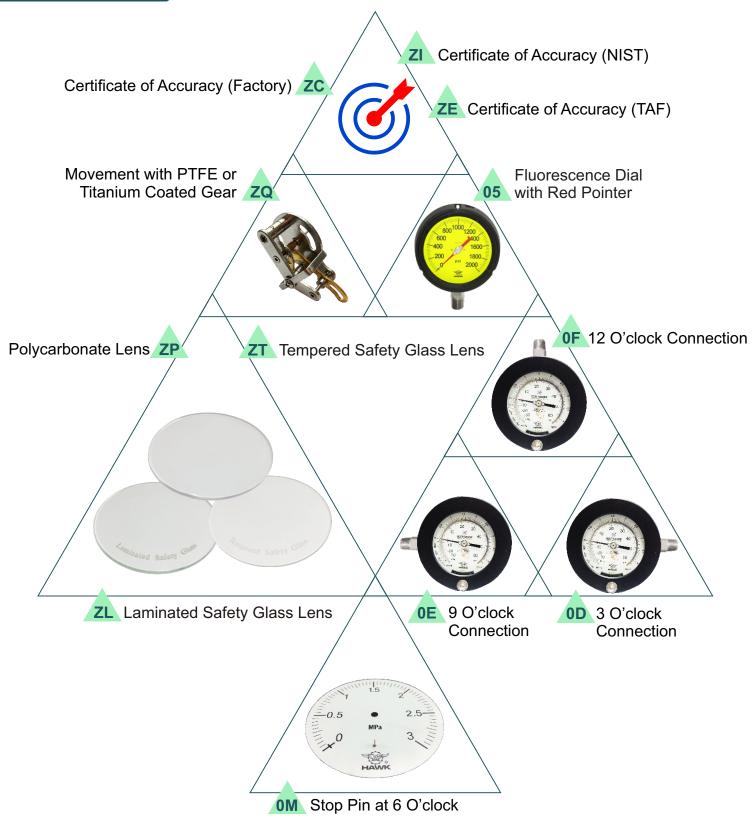
Pressure Temperature Leve



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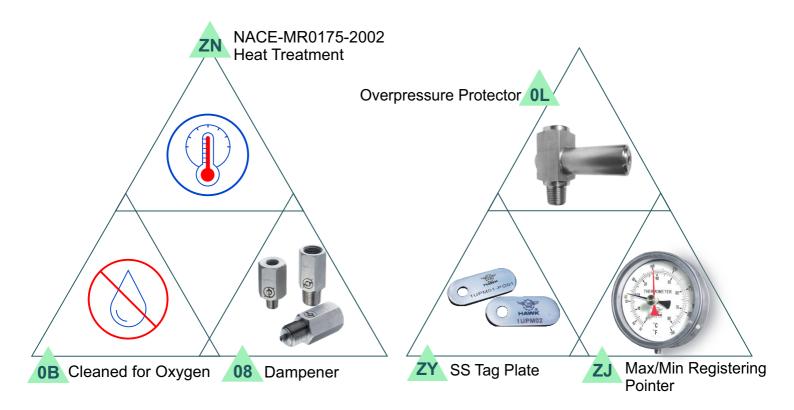
Pressure Temperature Level



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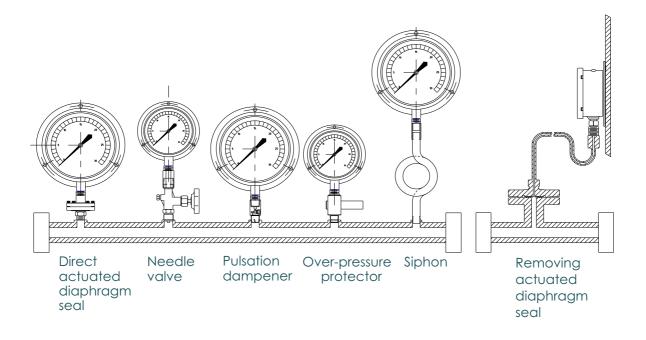
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Option



Accessories

Please refer to HAWK diaphragm seal and accessories data sheets for detailed information.



Pressure Temperature Leve



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Limited Warranty and Liability

HAWK GAUGE CO.,LTD warrants all its mechanical instruments to be free from defects in materials and workmanship. HAWK agrees to repair or replace any pressure gauges if returned to our factory, transportation charges prepaid, and after which examination reveals is to be defective due to faculty workmanship or material. This warrant should not apply to subject to the following terms and conditions.

- **A.** The product has not been subjected to misuse, neglect, abuse, accident, incorrect mounting, improper use or misapplication such as negligence, accident, vandalism, shock or vibration.
- B. The performance of any system of which HAWK's products are a component part.
- **C.** The product has not been exposed to any other service, range or environment of greater severity than that for which the products were designed.
- **D.** The product has not been altered or repaired by anyone except HAWK GAUGE or its authorized service agencies.
- **E.** The serial number or date code has not been removed, defaced or changed.
- F. The actual pressure&temperature occurring exceed the values specified for HAWK Process gauge.

Unless otherwise specified in a manual or warranty card, or agree to in a writing signed by HAWK GAUGE office, HAWK Process gauge products shall be warranted for two years from the date of sale.

This warranty is in lieu of all other warranties expressed or implied, and of all obligations or liabilities on its part for damages including but not limited to consequential damages, following the use of misuse of instruments sold by it. No agent is authorized to assume for it any liability except as set forth above.

> Note

HAWK GAUGE CO.,LTD reserves the right to make product improvements and change its specifications at any time stated throughout this brochure without notification. Please contact the factory on all critical dimensions and specifications for verification.

HAWK GAUGE is not expert in the customer's technical field and therefore doesn't warrant suitability of it's product for the application selected by customer.



Data Sheet No: MKDP1C31A3-E