

## Low pressures pressure gauges IMPL series



Ham-Let Industrial Mechanical **Pressure gauges** 



## IMPL series data sheet:

### **General:**

The Industrial, L – Low pressures gauge series are gaseous media positive and negative low pressures measurement devices with long usability and durability for indoor, outdoor and harsh surroundings, industrial, instrumentation and process applications.

The L series pressure gauges is a capsule mechanical device, Case sizes 63, 100, 160mm ( $2\frac{1}{2}$ ", 4", 6") suitable for vacuum to pressure up to 250incH20 (600mbar)

### Features:

- All stainless steel case and wetted parts.
- Bayonet ring.
- Front-sided screw for zero point adjustment with an adjusting range of ±5%.
- Case is filled or dry.
- Case protection: IP 54.
- Measuring ranges
- Vacuum/ Pressure: 0-1incH2O up to 0-250incH2O (0-2.5mbar up to 0-600mbar)
- For case size 63mm (2½") 0-25incH20 (0-25mbar) and up.
- Compound: -0.4-06incH20 up to -150-100incH20 (-1-1.5mbar up to -400-200mbar)
  For case size 63mm (2½") -4-6incH20 (-10-15mbar) and up.

### Materials of construction

Part		Material				
Wetted parts:	Process connection	SS 316L				
	Bourdon tube					
Case		SS 304L				
Window		Laminated safety glass				
Movement		Stainless Steel				
Dial		Aluminum (black figures, white background)				
Pointer		Aluminum (black)				



Ham-Let IMP gauges L Series







### **Technical Data L Series**

Case Size		63mm (2½″)	100mm (4")	160mm (6")
Accuracy		<b>±1.6% of span</b> EN 837-1 Class 1.6 ASME B40.1 Grade B	<b>±1.6% of span</b> EN 837-1 Class 1.6 ASME B40.1 Grade 1A	<b>±1.6% of span</b> EN 837-1 Class 1.6 ASME B40.1 Grade 1A
Case Configurations	Process connection position	<b>I</b> -II	ļ -1	<b>I</b> -II
	Mounting device (Optional)	-    -	-ji -ji	-# -#
Process	½″, 12mm Tube adapter			
Connection	3/8", 10mm Tube adapter			
	1⁄4", 6mm Tube adapter			
	1∕₂″ BSP-P/NPT		+	+
	1⁄4" BSP-P/NPT	+	+	+
	1/8" BSP-P/NPT	+		
	M20x1.5		+	+
	M12x1.5	+	+	+
Case Ventilation Filled Only	By blow -out device		+	
Weight (1)	Unfilled	0.44 (0.20)	1.32 (0.60)	2.20 (1.00) <sup>(2)</sup>
Pound (Kg.)	Filled	0.57 (0.26)	2.09 (0.95)	3.97 (1.80) <sup>(2)</sup>

(1) Approx. without mounting device.
(2) For 160mm (6") ≥ 25mbar - Unfilled 2.09 (0.95), Filled 3.97 (1.80).

Blow-out device -

Blow-out plug –

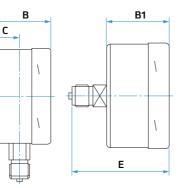








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**Configuration And Mounting Dimensions** 

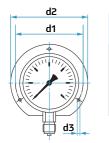
Lower Mount

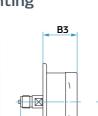
Lower Back Mount

Case S	Size		Α		В		B1		с		D		E
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
63	21/2	54	2.13	38 (1)	1.5(1)	37	1.46	10	0.4	64	2.52	60	2.36
100	4	87	3.43	55	2.17	55	2.17	20 (2)	0.79 (2)	101	3.98	85	3.35
<b>160</b> ≤6 incH <sup>2</sup>	<b>6</b> D (16mbar)	115	4.53	55	2.17	55	2.17	15	0.59	161	6.34	85	3.35
<b>160</b> ≥10 incH <sup>2</sup>	<b>6</b> <sup>2</sup> 0 (25 mbar)	115	4.53	51	2.01	51	2.01	15	0.59	161	6.34	81	3.18

### Back Flange Mounting

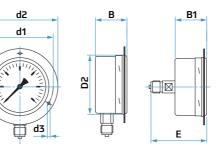
B2





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### Front Flange Mounting

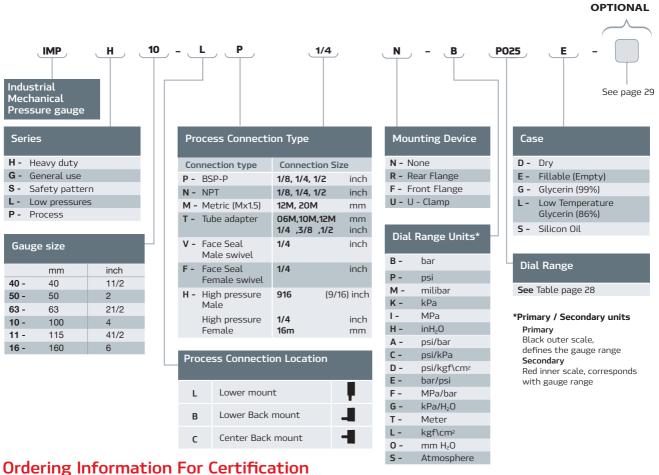


Case 9	Size		B2		B3		D2		d1		d2		d3
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
63	21/2	41 (1)	1.61 (1)	40	1.57	66	2.6	75	2.95	85	3.35	3.6	0.14
100	4	59	2.32	59	2.32	103	4.06	116	4.57	132	5.20	4.8	0.19
<b>160</b> ≤6 incH <sup>2</sup>	<b>6</b> D (16mbar)	58	2.28	58	2.28	163	6.42	178	7.01	196	7.72	5.8	0.23
<b>160</b> ≥10 incH <sup>2</sup>	<b>6</b> 20 (25 mbar)	54	2.13	54	2.13	163	6.42	178	7.01	196	7.72	5.8	0.23

(1) For case size 63 filled: B=47 mm (1.85 inch), B2=50 mm (1.97 inch) (2) For range ≤ 6 incH20 (16mbar): C=15.5 mm (0.61 inch)



### **Ordering Information For Industrial Mechanical Pressure Gauges**



Accuracy, Material and various standards conformance certifications are available for ordering.

	C			Blank			
Industrial Mechanical	Certificate	Class	Category	Туре			
Pressure gauge		00 - General	A - Accuracy (3)	Blank - General			
		21 - 2.1 <sup>(1)</sup> - Pass / fail	M - Material (2)(4)	GC - GOST - Customs declaration			
		<b>22</b> - 2.2 <sup>(1)</sup> - Inspection	S - Standard conformance (5)	Russia			
		<b>31</b> - 3.1 <sup>(1)(2)</sup> -Test Results,	T - Quality Test	GR - GOST - R			
		Item approval		TR - GOST-Type Russia			
		(1) According EN10204 (2) Material	certificate 3.1 is available for	TU - GOST-Type Ukraine			
		63mm & up. (3) Per item (serial No.)	(4) Per item type (5) Per order.	TK - GOST-Type Kazakhstan			

### Warning!

The system designer and user have the sole responsibility for selecting products suitable for their special application requirements, ensuring their safe and trouble-free installation, operation, and maintenance. Application details, material compatibility and product ratings should all be considered for each selected product. Improper selection, installation or use of products can cause property damage or personal injury.

HAM-LET ADVANCED CONTROL TECHNOLOGY



- Standard conformance BP600 - Up to 600 bar (10,000 psi) scale **BP01K-** Up to 1000 bar (15,000 psi) scale

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