

# MV Test gauges DN 150

Ranges : from -1...0 to 0...1000 bar

All stainless steel test gauge : MVX - MVE

Accuracy Class 0.6 (MVX) 0.25 (MVE)

Anti-parallax mirror

Conform to EN 837 standard, Pressure Directive PED 97/23/CE and ATEX Directive 94/9/CE for CE II 2 GDC - I M2 : glass window model only

MV test gauges are precision gauges used to calibrate (with pressure comparators)\* or to check other industrial pressure gauges mounted on industrial equipment.

A periodic verification against a deadweight tester is recommended in order to verify their initial accuracy.



## Technical Data (20°C)

<b>Ranges</b>	From -1...0 to 0...1000 bar (see standard graduations overleaf)
<b>Working pressure (-1 ... 1000 bar)</b>	Steady: 75% of full scale value Fluctuating: 60% of full scale value Short time: 100% of full scale value
<b>Thermal drift</b>	±0.4% for a variation of ±10°C (50°F) in relation to the reference temperature 20°C (68°F)
<b>Accuracy class</b>	Class 0.6 (MVX) Class 0.25 (MVE)
<b>Degree of protection</b>	IP 65 according to NF EN 60529
<b>Sensing element</b>	P ≤ 2.5 bar and P ≥ 1000 bar: 1.4404 (316L) stainless steel, solid drawn tube. 2.5 < P < 1000 bar: 1.4571 (316Ti) st. steel, rolled welded tube. Tube shape: < 60 bar: in C ≥ 60 bar: helicoi
<b>Connection</b>	1.4571 (316Ti) or 1.4404 (316L) st. steel, 22 mm square
<b>Thread</b>	G 1/2 or 1/2 NPT
<b>Case</b>	1.4301 (304) stainless steel
<b>Bezelring</b>	1.4301 (304) polished stainless steel. Bayonet lock type
<b>Window</b>	Glass, 3 mm thick
<b>Window gasket</b>	Elastomer. Ensures tightness between window and case
<b>Movement</b>	Stainless steel
<b>Dial</b>	Aluminium alloy, without zero stop. Fine graduations on 300° and black figures on white background (see subdivisions over leaf). Anti-parallax mirror to prevent reading errors.

<b>Pointer</b>	Aluminium alloy, balanced, black-painted, knife-edged end.
<b>Blow-out disc</b>	Elastomer. Positioned at the top of the pressure gauge. Ensures pressure balance with atmosphere. Blows out when pressure inside the case exceeds 0.6 bar (10 psi)

## Options

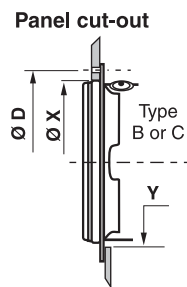
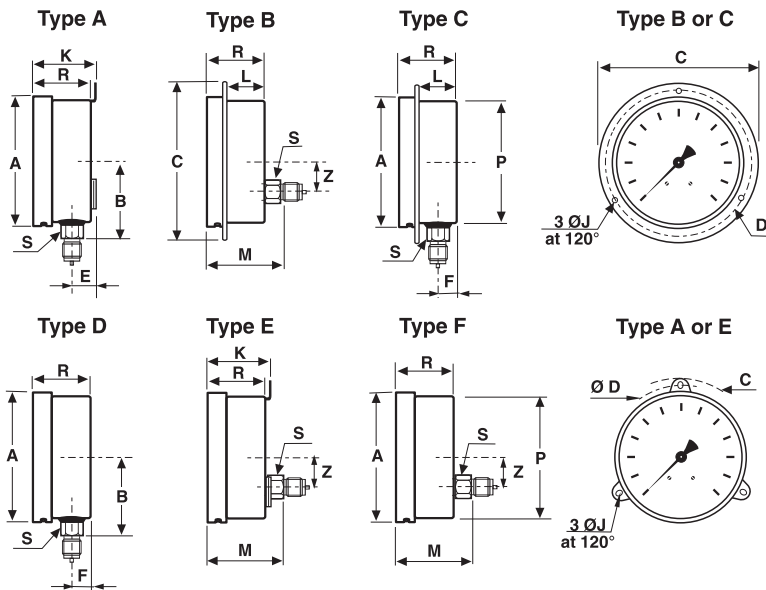
Double or special graduations other than bar  
Toughened **Code 0756** or laminated glass **Code 0751** or Polymethacrylate window **Code 0752**  
Other threads smaller than or equal to G 1/2  
Carrying case (only mounting type A-C-D) **Code 9908**  
Oxygen application **Code 0765**  
Laboratory cleanliness **Code 0835**  
Calibration with certificate **Code Q1060**

**BOURDON  
HAENNI**

made to measure



# Dimensions (mm)



Dimensions in mm	
Ø nominal	150
A	150.2
B	85
C	180
D	168
E	25.5
F	23
J	5.5
K	56.5
L	39.3
M	68.5
P	142
R	54.5
S	22
X	151
Y	145
Z	31.5
Weight type D (kg)	0.88

# Ordering Details - MV

		Mxx7xx0Bxx			
<b>Model</b>	1' digit	M			
Pressure gauges					
<b>Type</b>	2' ... 3 digit	VX			
MVX (0.6%)					
MVE (0.25%)		VE			
<b>Dial diameter</b>	4' digit	7			
Ø 150 mm					
<b>Type of mounting*</b>	5' digit	A			
Bottom connection, 3 back lugs					
Back connection, front flange		B			
Bottom connection, front flange		C			
Bottom connection		D			
Back connection, 3 back lugs		E			
Back connection		F			
* Option: stainless steel case and bezel ring 1.4404 (316L) replace A with 1, B with 2, C with 3, D with 4, E with 5 and F with 6					
<b>Pressure connection</b>	6' digit	3			
G 1/2					
1/2 NPT		6			
<b>Type of liquid filling</b>	7' digit	0			
Without filling					
<b>Measurement unit</b>	8' digit	B			
bar					
kPa		D			
<b>Pressure range</b>	9' ... 10' digit	XX			
See codes in table					

code	bar	subdivisions (bar)
59	-1 + 0	0.005
72	-1 + 0.6	0.01
74	-1 + 1.5	0.02
76	-1 + 3	0.02
77	-1 + 5	0.05
79	-1 + 9	0.05
81	-1 + 15	0.01
82	-1 + 24	0.2
12	0 + 0.6	0.005
15	0 + 1	0.005
16	0 + 1.6	0.01
18	0 + 2.5	0.02
19	0 + 4	0.02
20	0 + 6	0.05
22	0 + 10	0.05
24	0 + 16	0.1
26	0 + 25	0.2
27	0 + 40	0.2
29	0 + 60	0.5
31	0 + 100	0.5
33	0 + 160	1
35	0 + 250	2
38	0 + 400	2
39	0 + 600	5
41	0 + 1000**	5

\*\* MVE with accuracy ± 0.25% and hysteresis 0.4%

Uncoded options :

PNEUMATIC RECEIVER 0.2 - 1 bar - 3-15 psi	subdivisions
0 - 10 lin.	0.1
0 - 10 √	*
0 - 100 lin.	1
0 - 100 √	*

\* Non linear internal scale.

UK/12-2005 This data sheet may only be reproduced in full.