



McDANIEL

Process Gauges

When Durability Matters.

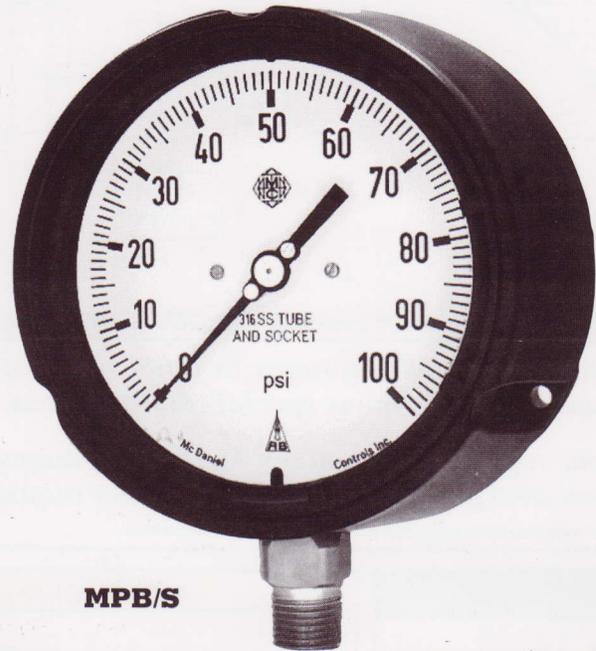
McDaniel designed the model **MPB/S** to meet and exceed the rigorous and harsh requirements of the process, petrochemical, and power industries.

With safety also a major consideration, McDaniel developed the MPB/S with a **solid front and hinged blow-out back**. The case is turret-style. Featuring a 4 mm thick **laminated safety glass lens** which also resists scratching; and will not craze or discolor.

The **elastomer compensating diaphragm** on the inside of the hinged blow-out back equalizes case pressure. It insures a quality seal against fill fluid leakage and corrosive atmospheric intrusions, while maintaining gauge accuracy.

Designed to withstand 300% full-scale pressure without bourdon tube rupture; and 130% full scale pressure without loss of accuracy!

Watertight, fillable, and trusted McDaniel heavy-duty construction make the MPB/S your first and **"lasting"** choice when it comes to process gauges.



MPB/S

SPECIFICATIONS

Accuracy:

0.5% full scale to ASME B40.1 standard (Grade 2A)

Dial:

Aluminum alloy, black figures, white background.

Case:

Molded fiberglass reinforced thermoplastic. PBTP (Fire retardant and impact resistant)
Case with integral rear flange.

Pointer:

Aluminum alloy, painted black. Micrometer adjustable.

Lens:

Laminated safety glass (4 mm / .16" thick).

Lens Ring:

Molded fiberglass reinforced thermoplastic. PBTP

Movement

Precision stainless steel. (mechanical over range stop)

Bourdon Tube:

316 Stainless steel (C Form 600 PSI & Below).
(Spiral 800 PSI & Above).

Liquid Fillable:

Glycerin (GF)

Blow-out Back:

Molded fiberglass reinforced thermoplastic. PBTP
Hinged for safety (will not become a projectile).

Compensating Diaphragm:

Unique **elastomer** with integral "O" ring seal.
(Field ready for filling, hermetically sealed, weatherproof. No fill kit required.)

Stem and Socket:

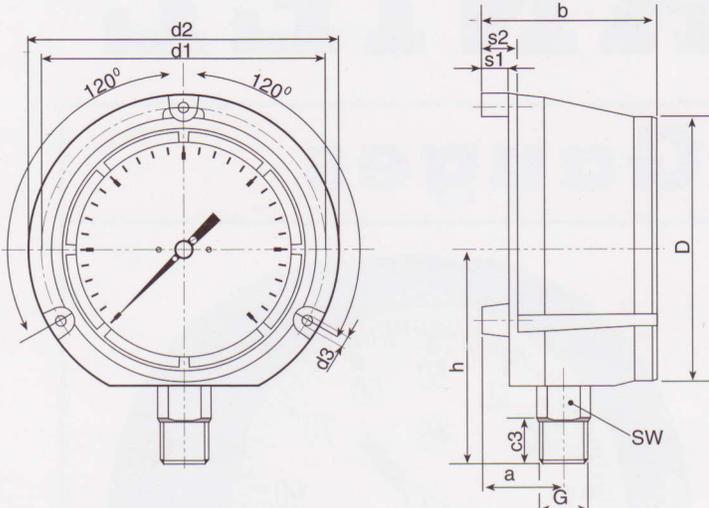
316 Stainless steel (7/8" / 22mm wrench flats)
Bottom connection (1/4", 1/2" NPT or Metric)
High quality **"rolled"** threads
(Helps to prevent galling).

McDaniel Controls, Inc.

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www.mcdanielcontrols.com

DIMENSIONAL DATA



Size	a	b	c3	D	d1
130	mm 37.5	80	19	129	137
4 1/2	in. 1.48	3.15	.75	5.08	5.39

d2	d3	G	h	s1	s2	SW
148	6.1	1/2"	102	12.5	17	22
5.83	.24	NPT	4.02	.49	.67	.87

Weight Dry - 0.85 kilo., 1.88 lbs.

Weight Filled - 1.25 kilo., 2.76 lbs.

* See website for dimensional data and downloadable AutoCAD files: www.mcdanielcontrols.com

McDaniel also makes gauges in other materials; in sizes and ranges to fit a wide variety of applications, and in many special configurations.

Ask your representative about McDaniel gauges with brass or Monel® internals, all brass or all stainless steel gauges, test gauges, or other requirements.

® Monel is a registered trademark of INCO family of companies.

Range code	Range psi	Minor Increments
6	0 - 6	.1
10	0 - 10	.1
A	0 - 15	.25
B	0 - 30	.5
C	0 - 60	1
D	0 - 100	1
E	0 - 160	2
F	0 - 200	2
G	0 - 300	5
H	0 - 400	5
I	0 - 600	10
J	0 - 800	10
K	0 - 1000	10
L	0 - 1500	25
M	0 - 2000	20
N	0 - 3000	50
4k	0 - 4000	50
O	0 - 5000	50
6k	0 - 6000	100
P	0 - 10000	100
Q	0 - 15000	250
R	0 - 20000	200
VACUUM	VACUUM	VACUUM
S	VAC 30"Hg - 0	.5
RECEIVER	RECEIVER	RECEIVER
T	REC 3 - 15"	2
COMPOUND	COMPOUND	COMPOUND
U	30"Hg + 15	1-0-5
V	30"Hg + 30	1-0-5
W	30"Hg + 60	2-0-2
X	30"Hg + 100	5-0-2
Y	30"Hg + 160	5-0-5
Z	30"Hg + 300	10-0-5
2k	30"Hg + 200	10-0-5

** Receiver gauge is dual scale.
(0 - 100% primary, 0 - 10 square root secondary)

HOW TO ORDER

- 1 - Select the model number (MPB/S)
- 2 - Specify connection code ("A" = 1/4" NPT) ("C" = 1/2" NPT)
- 3 - Specify range code from list at left.
- 4 - Specify mounting code (*Not applicable on model MPB/S, bottom mount only available)
- 5 - Specify special configurations or options. (Special scales, dual ranges, O₂ cleaned, etc.)
- 6 - Add choice of filling, if appropriate. (GF = Glycerin Filled) (SF = Silicone Filled)

Model #
(Example: MPB/SAE-GF - "MPB/S" = Model - "A" = (1/4" NPT) - "E" = (0-160psi) - "GF" = (Glycerin Filled)
MPB/SC6 - "MPB/S" = Model - "C" = (1/2" NPT) - "6" = (0-6psi) - (Dry, not Filled)

OPTIONS:

Liquid Filled - Monel® Internals - Plastic Lens - SS Tags
Colored Cases, Yellow • Red • Blue
Glow Dial & Reflective Indicators - Panel Flange Kit

Warranty

McDaniel warrants our pressure gauges to be free of defects in material and workmanship: Replacement of any defective gauge will be made at no cost to the purchaser. Gauge failures determined to be caused by abuse, over-range and incompatibility with environment or process media will not be considered under this warranty.

Repair

We will repair any McDaniel gauge for a cost of \$15.00 on 4" and larger sizes; \$7.50 on 2 1/2" and smaller. Damaged sockets or bourdon tubes cannot be repaired. Prices are F.O.B. Boutte, Louisiana. U.S.A.

DISTRIBUTED BY:

It is recommended that users of pressure gauges become familiar with American National Standard ASME B40.1, entitled Gauges, Pressure and Vacuum - Indicating Dial Type - Elastic Element. This specification is available from:

American Society of Mechanical Engineers

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