



McDaniel Controls, Inc.

P. O. BOX 187 • LULING, LOUISIANA 70070 USA
(985) 758-2782 • FAX (985) 758-1688
www.mcdanielcontrols.com

Gauge Model Selection Guide

DIAL SIZE	MODEL	NPT	CASE	INTERNALS	ACCURACY	RANGES	OTHER FEATURES
1½" (40 mm)	S	⅛" * ¼"	304 STAINLESS STEEL Fillable	316 STAINLESS STEEL (2)	1.5% Grade A	Up to 10,000 psi	* Full blow-out protection * Lexan Lens * Compensating diaphragm * Repairable * Weather Tight Case MOUNTING STYLES: Bottom, Center-back (1), U-Clamp, Panel mount
	R7	⅛" * ¼"	304 STAINLESS STEEL Non-Fillable	BRASS (3)	3-2-3% Grade B	Up to 5,000 psi	* Utility Gauge * Polycarbonate Lens * Economical McDaniel Quality * Restrictor screw for pulsation dampening MOUNTING STYLES:
	R8	⅛" * ¼"	BLACK ENAMELED STEEL Non-Fillable				
2" (50 mm)	Q3	⅛" ¼"	304 STAINLESS STEEL Fillable	316 STAINLESS STEEL (2)	1% Grade 1A	Up to 15,000 psi	* Laminated Safety Glass Lens * Weather Tight Case * Repairable * Blow-out disc MOUNTING STYLES: Bottom, Center-back , U-Clamp, Panel mount
	T6	⅛" ¼"	304 STAINLESS STEEL Filled**	BRASS (3)	3-2-3% Grade B	Up to 5,000 psi	* Utility Gauge * Polycarbonate Lens * Economical McDaniel Quality * Restrictor screw for pulsation dampening MOUNTING STYLES: Bottom, Center-back, U-Clamp (except T7), Panel mount
	T7	⅛" ¼"	304 STAINLESS STEEL Non-Fillable				
	T8	⅛" ¼"	BLACK ENAMELED STEEL Non-Fillable				
2½" (63 mm)	K	* ⅛" ¼"	304 STAINLESS STEEL Fillable	316 STAINLESS STEEL (2)	1% Grade 1A	Up to 20,000 psi	* Laminated Safety Glass Lens * Repairable * Weather Tight Case * Restrictor screw for pulsation dampening * Solid Front Blow-out Back Case Available
	J	* ⅛" ¼"	304 STAINLESS STEEL Fillable	BRASS (3)		Up to 6,000 psi	MOUNTING STYLES: Bottom, Lower-back, U-Clamp, Panel mount, Rear Flange,
	K9	* ⅛" ¼"	304 STAINLESS STEEL Fillable	316 STAINLESS STEEL (2)	2-1-2% Grade A	Up to 10,000 psi	* Polycarbonate Lens * Rolled Threads * Restrictor Screw * Welded Case and Stem MOUNTING STYLES: Bottom, Lower-back , U-Clamp, Front Flange, Rear Flange
	J6	* ⅛" ¼"	304 STAINLESS STEEL Filled**	BRASS (3)	3-2-3% Grade B	Up to 15,000 psi	* Utility Gauge * Polycarbonate Lens
	J7	* ⅛" ¼"	304 STAINLESS STEEL Non-Fillable			Inches of Water* & Up to 15,000 psi	* Economical McDaniel Quality * Restrictor screw for pulsation dampening
	J8	* ⅛" ¼"	BLACK ENAMELED STEEL Non-Fillable			MOUNTING STYLES: Bottom, Center-back, U-Clamp, Panel mount	

*SPECIAL
NON-STOCK

**FILLED
GLYCERIN

ACCURACY
ASME
B40.1

RANGE
Includes: Vacuum,
Compound, and
Receiver 3-15

(1) Model "S" 1/4 NPT only in Back connection
(2) 316 SS Tube, Tip and Socket
(3) Brass Socket, Copper Alloy /
Phosphorous Bronze Tube and Tip



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DISTRIBUTED BY:

DIAL SIZE	MODEL	NPT	CASE	INTERNALS	ACCURACY	RANGES	OTHER FEATURES			
4" (100 mm)	A	1/4"	304 STAINLESS STEEL	316 STAINLESS STEEL (2)	.5% [†] Grade 2A	Inches of Water and Up to 35,000 psi	* Laminated Safety Glass Lens * Repairable * Adjustable Pointer * No pointer stop on dial * Pulsation Dampened * Full blow-out Relief * Vacuum Stop * Overrange Stop * Weather Tight Case MOUNTING STYLES: Bottom, Lower-back, U-Clamp, Panel mount with Front Flange, Rear Flange (MODELS: E, G) (also 6" MODELS F, H) Solid Front/Blow-out Back configuration available † .5% accuracy ranges 15 psi to 10,000 psi † 1.5% accuracy ranges 6" wc to 250" wc † 1.0% accuracy ranges above 10,000 psi			
	C	1/2"	Non-Fillable							
	E	1/4"	304 STAINLESS STEEL							
	G	1/2"	Fillable							
	L	1/4"	POLYAMID	BRASS* (3)						
	M	1/2"	Non-Fillable							
	N	1/4"	POLYAMID							
	P	1/2"	Fillable							
	E9	1/4"	304 STAINLESS STEEL	316 STAINLESS STEEL (2)				2-1-2% Grade A	Up to 10,000 psi	* Polycarbonate Lens * Welded Case and Stem * Rolled Threads * Threaded Inlet - Restrictor Screw Ready MOUNTING STYLES: Bottom, Center-back , U-Clamp, Front Flange, Rear Flange
	G9	1/2"	Fillable							
4 1/2" (130 mm)	MPB/SA	1/4"	FIBERGLASS REINFORCED THERMOPLASTIC (PBTP)	316 STAINLESS STEEL (2)		Up to 20,000 psi	* Laminated Safety Glass Lens * Repairable * Adjustable Pointer * Compensating Diaphragm-Elastomer with internal "O" ring seal * Field ready for filling, hermetically sealed, weatherproof. No fill kit required. * Solid Front/Blow-out Back MOUNTING STYLES: Bottom Connected Only			
	MPB/SC	1/2"	Fillable							
6" (160 mm)	B	1/4"	304 STAINLESS STEEL	316 STAINLESS STEEL (2)	.5% [†] Grade 2A	Inches of Water and Up to 60,000 psi	* Laminated Safety Glass Lens * Repairable * Adjustable Pointer * No pointer stop on dial * Pulsation Dampened * Full blow-out Relief * Vacuum Stop * Overrange Stop * Weather Tight Case MOUNTING STYLES: Bottom, Lower-back, U-Clamp, Panel mount with Front Flange, Rear Flange (MODELS: F, H "Bottom Connect Only") Solid Front/Blow-out Back configuration available			
	D	1/2"	Non-Fillable							
	F	1/4"	304 STAINLESS STEEL							
	H	1/2"	Fillable							

NOTE: 10" dial available. Consult factory.

ACCURACY
ASME
B40.1

RANGE
Includes: Vacuum,
Compound, and
Receiver 3-15

(2) 316 SS Tube, Tip and Socket
(3) Brass Socket, Copper Alloy / Phosphorous Bronze Tube and Tip
* 316 SS Optional



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RANGE GUIDE

RANGE CODE	RANGE (psi)	AVAILABILITY BY GAUGE MODEL																												■ = NOT AVAILABLE THIS RANGE			
		A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
3	0 - 3	A	B	C	D							J		J7*	J8*	K		L	M														
5	0 - 5	A	B	C	D							J		J7*	J8*	K		L	M														
6	0 - 6	A	B	C	D													L	M	MPB													
10	0 - 10	A	B	C	D							J		J7*	J8*	K		L	M	MPB													
A	0 - 15	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
B	0 - 30	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
C	0 - 60	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
D	0 - 100	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
E	0 - 160	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
F	0 - 200	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
G	0 - 300	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
H	0 - 400	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
I	0 - 600	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
J	0 - 800	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
K	0 - 1,000	A	B	C	D	E	E9	F	G	G9	H	J	J6¹	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6¹	T7	T8				
L	0 - 1,500	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
M	0 - 2,000	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
N	0 - 3,000	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
4k	0 - 4,000	A²	B²	C²	D²	E²	E9	F²	G²	G9	H²	J	J6	J7	J8	K	K9	L²	M²	MPB²	N²	P²	Q3	R7	R8	S²	T6	T7	T8				
O	0 - 5,000	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
6k	0 - 6,000	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3			S							
P	0 - 10,000	A	B	C	D	E	E9	F	G	G9	H		J6	J7	J8	K	K9	L	M	MPB	N	P	Q3			S							
Q	0 - 15,000	A	B	C	D	E		F	G		H		J6	J7	J8	K		L	M	MPB	N	P	Q3										
R	0 - 20,000	A	B	C	D	E		F	G		H					K		L	M	MPB	N												
30k	0 - 30,000	A	B	C	D	E		F	G		H							L	M		N												
35k	0 - 35,000	A	B	C	D	E		F	G		H							L	M		N												
40k	0 - 40,000										H																						
50k	0 - 50,000										H																						
60k	0 - 60,000										H																						
S	VAC 30"Hg - 0	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
T	REC 3 - 15	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
U	COMP 30"Hg + 15	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
V	COMP 30"Hg + 30	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
W	COMP 30"Hg + 60	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
X	COMP 30"Hg + 100	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
Y	COMP 30"Hg + 160	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
2k	COMP 30"Hg + 200	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				
Z	COMP 30"Hg + 300	A	B	C	D	E	E9	F	G	G9	H	J	J6	J7	J8	K	K9	L	M	MPB	N	P	Q3	R7	R8	S	T6	T7	T8				

(1 - 1K = To avoid duplicate part numbers, use 1K when specifying 0-1000 psi range on models J6 and T6)

(2 - 4K = 4,000 psi range, non-stock, special order for: Models A, B, C, D, E, F, G, H, MPB, S)

To order mercury, Feet of Sea water, or special ranges, describe the desired range, **after the MODEL type.**

How to Order by Code

1. Select the **model** from "Gauge Model Selection Guide".
2. Select the **pressure range** from "Range Guide".
3. Specify **mounting code**, if other than standard bottom connection.
4. Add **special configurations** if needed - either by code or written description.
5. Add **choice of filling**, if appropriate.
(**GF** = Glycerin Filled or **SF** = Silicone Filled)

EXAMPLE:

Model	Range Code	Mounting Code	Special Configuration	Type of Filling
K	D	P	-	GF

Order: A 2½" sealed gauge with a scale of 0 to 100 psi, panel-mounted / front flange, ¼" NPT lower-back connection, filled at factory with glycerin (KDP-GF).

Special Configuration Adder Codes

- B** = psi/bar (dual scale)
K = psi/kPa (dual scale)
M = Monel® Internals
N = Non-standard internals (316 SS tube/tip/socket)
 Models: L, M, N, P
O = O₂ (cleaned for oxygen service).
S = Solid Front / Blow-out Back case
G = Glow dial with safe zone reflective indicators (4" & 6" All SS* and 4.5" dial only).

Mounting Codes

- C** = Center-back Connected (use for models Q3, E9, G9)
L = Lower-back or (Center-back on: J6, J7, J8, R7, R8, S, T6, T7, T8)
P = Panel mount, Front Flange
U = U-clamp, Panel Mount
R = Rear Flange
***** = Non-stock

RANGE CODE	RANGE Inches of Water Column (H ₂ O)	AVAILABILITY BY GAUGE MODEL										■ = NOT AVAILABLE THIS RANGE										
		A	B	C	D	J	J7*	J8*	K	L	M											
1.6"	0 - 1.6"																					
2.5"	0 - 2.5"																					
4"	0 - 4"																					
6"	0 - 6"	A	B	C	D					L	M											
10"	0 - 10"	A	B	C	D	J	J7*	J8*	K	L	M											
16"	0 - 16"	A	B	C	D	J	J7*	J8*	K	L	M											
25"	0 - 25"	A	B	C	D	J	J7*	J8*	K	L	M											
40"	0 - 40"	A	B	C	D	J	J7*	J8*	K	L	M											
60"	0 - 60"	A	B	C	D	J	J7*	J8*	K	L	M											
100"	0 - 100"	A	B	C	D	J	J7*	J8*	K	L	M											
160"	0 - 160"	A	B	C	D	J	J7*	J8*	K	L	M											
200"	0 - 200"	A	B	C	D	J	J7*	J8*	K	L	M											
250"	0 - 250"	A	B	C	D	J	J7*	J8*	K	L	M											
1.6" - 0	VAC 1.6" - 0																					
2.5" - 0	VAC 2.5" - 0																					
4" - 0	VAC 4" - 0																					
6" - 0	VAC 6" - 0	A	B	C	D					L	M											
10" - 0	VAC 10" - 0	A	B	C	D	J	J7*	J8*	K	L	M											
16" - 0	VAC 16" - 0	A	B	C	D	J	J7*	J8*	K	L	M											
25" - 0	VAC 25" - 0	A	B	C	D	J	J7*	J8*	K	L	M											
40" - 0	VAC 40" - 0	A	B	C	D	J	J7*	J8*	K	L	M											
60" - 0	VAC 60" - 0	A	B	C	D	J	J7*	J8*	K	L	M											
100" - 0	VAC 100" - 0	A	B	C	D	J	J7*	J8*	K	L	M											
160" - 0	VAC 160" - 0	A	B	C	D	J	J7*	J8*	K	L	M											
200" - 0	VAC 200" - 0	A	B	C	D	J	J7*	J8*	K	L	M											
250" - 0	VAC 250" - 0	A	B	C	D	J	J7*	J8*	K	L	M											

To order mercury, Compound Inches of Water, or other ranges, describe the desired range, (rather than use a range code) **after the MODEL type**.
This range guide illustrates McDaniel gauge model ranges. Some model ranges are not stocked. Minimum order quantities may apply.

*Models J7 and J8 low pressure ranges: 0-3, 0-5, 0-10 PSI and Inches of H₂O are special order, non-stock.

Note – For Compound Inches of Water Column (H₂O) Ranges and Gauge Model availability: Find the gauge model/type from the **McDaniel Gauge Selection Guide**, and with your desired compound range, add together the vacuum (negative) and pressure (positive) side. If the sum of the two added together equals a range for a model in table above, then the compound range is available. (e.g. – desired range: 50"–0–50" WC, in gauge model "A". Model A is available in 0-100". 50"–0–50" adds up to 100" WC. Your compound range could be 70"–0–30", 30"–0–70", or 60"–0–40", etc.)

Pressure Units Conversion Chart

To convert pressure for one unit to another:

1. Start at column heading with units to convert **from**.
2. Move down the same column to number "1".
3. Move across this **row** to the column with units heading you are converting **to**.
4. Multiply the number in this table cell times the amount you are converting from to get the new value in converted **Units**.

psi	atms	"H ₂ O	mm H ₂ O	cm H ₂ O	oz/in ²	Kg/cm ²	"Hg	mm Hg (Torr)	cm Hg	mbar	bar	Pa (N/m ²)	kPa	MPa
1	0.0681	27.71	703.8	70.38	16	0.0704	2.036	51.715	5.17	68.95	0.0689	6,895	6.895	0.0069
14.7	1	407.2	10,343	1,034.3	235.1	1.033	29.92	760	76	1013	1.013	101,325	101.3	0.1013
0.0361	0.00246	1	25.4	2.54	0.5775	0.00254	0.0735	1.866	0.187	2.488	0.00249	248.8	0.249	0.00025
0.001421	0.000097	0.0394	1	0.1	0.0227	0.0001	0.00289	0.0735	0.00735	0.098	0.000098	9.8	0.0098	0.00001
0.01421	0.000967	0.3937	10	1	0.227	0.001	0.0289	0.735	0.0735	0.98	0.00098	98	0.098	0.0001
0.0625	0.00425	1.732	43.986	4.40	1	0.0044	0.1273	3.232	0.3232	4.31	0.00431	431	0.431	0.00043
14.22	0.968	394.1	100,010	1,001	227.6	1	28.96	735.6	73.56	980.7	0.981	98,067	98.07	0.0981
0.4912	0.03342	13.61	345.7	34.57	7.858	0.0345	1	25.4	2.54	33.86	0.0339	3,386	3.386	0.00339
0.01934	0.001316	0.536	13.61	1.361	0.310	0.00136	0.0394	1	0.1	1.333	0.001333	133.3	0.1333	0.000133
0.1934	0.01316	5.358	136.1	13.61	3.10	0.0136	0.394	10	1	13.33	0.01333	1,333	1.333	0.00133
0.0145	0.000987	0.4012	10.21	1.021	0.2321	0.00102	0.0295	0.75	0.075	1	0.001	100	0.1	0.0001
14.504	0.987	401.9	10,210	1021	232.1	1.02	29.53	750	75	1,000	1	100,000	100	0.1
0.000145	0.00001	0.00402	0.102	0.0102	0.00232	0.00001	0.000295	0.0075	0.00075	0.01	0.00001	1	0.001	0.000001
0.14504	0.00987	4.019	102.07	10.207	2.321	0.0102	0.295	7.5	0.75	10	0.01	1,000	1	0.001
145.04	9.869	4019	102,074	10,207	2321	10.2	295.3	7500	750	10,000	10	1,000,000	1,000	1