



Gauge Model Selection Guide

DIAL SIZE	MODEL	NPT	CASE	INTERNALS	ACCURACY	RANGES	OTHER FEATURES
1 1/2" (40 mm)	S	1/8" * 1/4"	304 STAINLESS STEEL Fillable	316 STAINLESS STEEL (2)	1.5% Grade A	Up to 10,000 psi	* Full blow-out protection * Repairable * Lexan Lens * Weather Tight Case * Compensating diaphragm MOUNTING STYLES: Bottom, Center-back (1), U-Clamp, Panel mount
	R7	1/8" * 1/4"	304 STAINLESS STEEL Non-Fillable	3 BRASS	3-2-3% Grade B	Up to 5,000 psi	* Utility Gauge * Polycarbonate Lens * Economical McDaniel Quality * Restrictor screw for pulsation dampening
	R8	1/8" * 1/4"	BLACK ENAMELED STEEL Non-Fillable				MOUNTING STYLES: Bottom, Center-back, U-Clamp, Panel mount
2" (50 mm)	Q3	1/8" 1/4"	304 STAINLESS STEEL Fillable	316 STAINLESS STEEL (2)	1% Grade 1A	Up to 15,000 psi	* Laminated Safety Glass Lens * Repairable * Weather Tight Case * Blow-out disc MOUNTING STYLES: Bottom, Center-back, U-Clamp, Panel mount
	T6	1/8" 1/4"	304 STAINLESS STEEL Filled**	3 BRASS	3-2-3% Grade B	Up to 5,000 psi	* Utility Gauge * Polycarbonate Lens * Economical McDaniel Quality * Restrictor screw for pulsation dampening
	T7	1/8" 1/4"	304 STAINLESS STEEL Non-Fillable				MOUNTING STYLES: Bottom, Center-back, U-Clamp (except T7), Panel mount
	T8	1/8" 1/4"	BLACK ENAMELED STEEL Non-Fillable				
2 1/2" (63 mm)	K	* 1/8" 1/4"	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	* 1/8" 1/4"	304 STAINLESS STEEL Fillable	3 BRASS		Up to 6,000 psi	MOUNTING STYLES: Bottom, Lower-back, U-Clamp, Panel mount, Rear Flange, Center-Back available by special order.
	U	* 1/8" 1/4"	CAST BRASS Fillable			Up to 10,000 psi	* Laminated Safety Glass Lens * Repairable * One-piece case and stem * Heavy-duty MOUNTING STYLES: Bottom, Center-back, U-Clamp
	K9	* 1/8" 1/4"	304 STAINLESS STEEL Fillable	316 STAINLESS STEEL (2)	2-1-2% Grade A	Up to 10,000 psi	* Polycarbonate Lens * Restrictor Screw * Rolled Threads * Welded Case and Stem MOUNTING STYLES: Bottom, Lower-back, U-Clamp, Front Flange, Rear Flange
	J6	* 1/8" 1/4"	304 STAINLESS STEEL Filled**	3 BRASS	3-2-3% Grade B	Up to 15,000 psi	* Utility Gauge * Polycarbonate Lens
	J7	* 1/8" 1/4"	304 STAINLESS STEEL Non-Fillable			Inches of Water* & Up to 15,000 psi	* Economical McDaniel Quality * Restrictor screw for pulsation dampening
	J8	* 1/8" 1/4"	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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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	<ul style="list-style-type: none"> * 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 <p>MOUNTING STYLES: Bottom, Lower-back, U-Clamp, Panel mount with Front Flange, Rear Flange</p> <p>(MODELS: E, G) (also 6" MODELS F, H) Solid Front/Blow-out Back configuration available</p> <p>† .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</p>			
	C	1/2"	Non-Fillable							
	E	1/4"	304 STAINLESS STEEL							
	G	1/2"	Fillable							
	L	1/4"	POLYAMID "B"	BRASS* (3)						
	M	1/2"	Non-Fillable							
	N	1/4"	POLYAMID "B"							
	P	1/2"	Fillable							
	E9	1/4"	304 STAINLESS STEEL	316 STAINLESS STEEL (2)				2-1-2% Grade A	Up to 10,000 psi	<ul style="list-style-type: none"> * Polycarbonate Lens * Welded Case and Stem * Rolled Threads * Threaded Inlet - Restrictor Screw Ready <p>MOUNTING STYLES: Bottom, Center-back, U-Clamp, Front Flange, Rear Flange</p>
	G9	1/2"	Fillable							
MCXA	1/4"	304 STAINLESS STEEL	316 STAINLESS STEEL (2)	1.5% Grade A	6"-160" WC	<ul style="list-style-type: none"> * Laminated Safety Glass Lens * Repairable * Weather Tight Case * Capsule Sensing Element * 20 times Overrange Protected * Precision Geared Movement * Vacuum and Compound Ranges Available <p>MOUNTING STYLES: Bottom, Lower-back, Panel mount, Rear Flange</p>				
MCXC	1/2"	Non-Fillable								
MC3A	1/4"	ALLOY STEEL	BRASS (3)		4"-160" WC					
MC3C	1/2"	Non-Fillable								
4 1/2" (130 mm)	MPB/SA	1/4"	FIBERGLASS REINFORCED THERMOPLASTIC (PBTP)	316 STAINLESS STEEL (2)		Up to 20,000 psi	<ul style="list-style-type: none"> * 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 <p>MOUNTING STYLES: Bottom Connected Only</p>			
	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 (4)	<ul style="list-style-type: none"> * 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 <p>MOUNTING STYLES: Bottom, Lower-back, U-Clamp, Panel mount with Front Flange, Rear Flange</p> <p>(MODELS: F, H "Bottom Connect Only") Solid Front/Blow-out Back configuration available</p>			
	D	1/2"	Non-Fillable							
	F	1/4"	304 STAINLESS STEEL							
	H	1/2"	Fillable							
	Y	1/4"	POLYAMID "B"	BRASS* (3)						
	Z	1/2"	Non-Fillable							
	MCXB	1/4"	304 STAINLESS STEEL	316 STAINLESS STEEL (2)				1.5% Grade A	2.5"-160" WC	<ul style="list-style-type: none"> * Laminated Safety Glass Lens * Repairable * Weather Tight Case * Capsule Sensing Element * 20 times Overrange Protected * Precision Geared Movement * Vacuum and Compound Ranges Available <p>MOUNTING STYLES: Bottom, Lower-back, Panel mount, Rear Flange</p>
	MCXD	1/2"	Non-Fillable							
	MC3B	1/4"	ALLOY STEEL	BRASS (3)					1.6"-160" WC	
	MC3D	1/2"	Non-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
 (4) Models Y and Z only up to 35,000 psi



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RANGE GUIDE

RANGE CODE	RANGE (psi)	AVAILABILITY BY GAUGE MODEL																															
		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	Y	Z	
3	0 - 3	A	B	C	D							J		J7*	J8*	K		L	M													Y	Z
5	0 - 5	A	B	C	D							J		J7*	J8*	K		L	M													Y	Z
6	0 - 6	A	B	C	D													L	M	MPB												Y	Z
10	0 - 10	A	B	C	D							J		J7*	J8*	K		L	M	MPB												Y	Z
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	U	Y	Z	
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	U	Y	Z	
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	U	Y	Z	
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	U	Y	Z	
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	U	Y	Z	
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	U	Y	Z	
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	U	Y	Z	
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	U	Y	Z	
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	U	Y	Z	
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	U	Y	Z	
K	0 - 1,000	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	U	Y	Z	
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	U	Y	Z	
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	U	Y	Z	
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	U	Y	Z	
4k	0 - 4,000	A ²	B ²	C ²	D ²	E ²	E9	F ²	G ²	G9	H ²	J	J6	J7	J8	K	K9	L ²	M ²	MPB ²	N ²	P ²	Q3	R7	R8	S ²	T6	T7	T8	U	Y ²	Z ²	
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	U	Y	Z	
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					U	Y	Z
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					U	Y	Z
Q	0 - 15,000	A	B	C	D	E		F	G		H		J6	J7	J8	K		L	M	MPB	N	P	Q3								Y	Z	
R	0 - 20,000	A	B	C	D	E		F	G		H					K		L	M	MPB	N										Y	Z	
30k	0 - 30,000	A	B	C	D	E		F	G		H						L	M		N											Y	Z	
35k	0 - 35,000	A	B	C	D	E		F	G		H						L	M		N											Y	Z	
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	U	Y	Z	
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	Y	Z	
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	U	Y	Z	
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	U	Y	Z	
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	U	Y	Z	
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	U	Y	Z	
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	U	Y	Z	
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	U	Y	Z	
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	U	Y	Z	

(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, Y, Z)

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

HOW TO ORDER BY CODE

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

EXAMPLE:

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

Order: A 2 1/2" sealed gauge with a scale of 0 to 100 psi, panel-mounted / front flange, 1/4" 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, Y, Z
- 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, U)
- P = Panel mount, Front Flange
- U = U-clip, 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	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD	Y	Z	
1.6"	0 - 1.6"											MC3B		MC3D								
2.5"	0 - 2.5"											MC3B		MC3D		MCXB		MCXD				
4"	0 - 4"										MC3A	MC3B	MC3C	MC3D		MCXB		MCXD				
6"	0 - 6"	A	B	C	D					L	M	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD			
10"	0 - 10"	A	B	C	D	J	J7*	J8*	K	L	M	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD			
16"	0 - 16"	A	B	C	D	J	J7*	J8*	K	L	M	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD			
25"	0 - 25"	A	B	C	D	J	J7*	J8*	K	L	M	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD			
40"	0 - 40"	A	B	C	D	J	J7*	J8*	K	L	M	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD			
60"	0 - 60"	A	B	C	D	J	J7*	J8*	K	L	M	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD			
100"	0 - 100"	A	B	C	D	J	J7*	J8*	K	L	M	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD			
160"	0 - 160"	A	B	C	D	J	J7*	J8*	K	L	M	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD	Y	Z	
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											MC3B		MC3D								
2.5" - 0	VAC 2.5" - 0											MC3B		MC3D		MCXB		MCXD				
4" - 0	VAC 4" - 0											MC3A	MC3B	MC3C	MC3D		MCXB		MCXD			
6" - 0	VAC 6" - 0	A	B	C	D					L	M	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD			
10" - 0	VAC 10" - 0	A	B	C	D	J	J7*	J8*	K	L	M	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD			
16" - 0	VAC 16" - 0	A	B	C	D	J	J7*	J8*	K	L	M	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD			
25" - 0	VAC 25" - 0	A	B	C	D	J	J7*	J8*	K	L	M	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD			
40" - 0	VAC 40" - 0	A	B	C	D	J	J7*	J8*	K	L	M	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD			
60" - 0	VAC 60" - 0	A	B	C	D	J	J7*	J8*	K	L	M	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD			
100" - 0	VAC 100" - 0	A	B	C	D	J	J7*	J8*	K	L	M	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD			
160" - 0	VAC 160" - 0	A	B	C	D	J	J7*	J8*	K	L	M	MC3A	MC3B	MC3C	MC3D	MCXA	MCXB	MCXC	MCXD	Y	Z	
200" - 0	VAC 200" - 0	A	B	C	D	J	J7*	J8*	K	L	M									Y	Z	
250" - 0	VAC 250" - 0	A	B	C	D	J	J7*	J8*	K	L	M									Y	Z	

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

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	1,021	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

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