



DIAL AVAILABILITY CHART

([Contact the factory](#) for custom dials or to view specific dial layouts)

Pressure Ranges

psi		psi kPa		psi bar		kg/cm ² psi	
CODE	RANGE	CODE	RANGE	CODE	RANGE	CODE	RANGE
00 (135°)	15	BB	15 100	DB	15 1	AB	1 15
01	30	BA	30 200	DA	30 2	AA	2.1 30
02 (135°)	30						
03	60	BC	60 400	DC	60 4	AC	4.2 60
04	100	BD	100 700	DD	100 7	AD	7 100
05	150	BE	150 1000	DE	150 10	AE	10.5 150
23	160	BL	160 1100	DL	160 11	AL	11 160
06	200	BF	200 1400	DF	200 14	AF	14 200
07	300	BG	300 2000	DG	300 20	AG	21 300
08	400	BH	400 2800	DH	400 28	AH	28 400
20	500	BI	500 3500	DI	500 35	AI	35 500
09	600	BQ	600 4000	DJ	600 40	AJ	42 600
10	800	BY	800 5500	DY	800 55	AY	56 800
11	1000	BK	1000 7000	DK	1000 70	AK	70 1000
12	1500	BM	1500 10,000	DM	1500 100	AM	106 1500
13	2000	BN	2000 14,000	DN	2000 140	AN	140 2000
14	3000	BP	3000 20,000	DP	3000 210	AP	210 3000
22	4000	BJ	4000 28,000	DQ	4000 280	AQ	280 4000
15	5000	BR	5000 35,000	DR	5000 350	AR	350 5000
16	6000	BS	6000 40,000	DS	6000 400	AS	420 6000
21	8000	BW	8000 55,000	DW	8000 550	AW	550 8000
17	10,000	BT	10,000 70,000	DT	10,000 700	AT	700 10,000
18	15,000	BU	15,000 100,000	DU	15,000 1000	AU	1000 15,000

inHg (positive pressure)	
CODE	RANGE
JA	0 / 60
JC	0 / 100

NOTES

1. All gauges above 5,000 psi (or equivalent) are ±1% F.S. descending accuracy.
2. For accuracy limitations, see [Accuracy Specifications](#) sheet.
3. Pressure codes in this bulletin are primarily for Perma-Cal's® internal operations and are subject to change without notice. When ordering, to assure the desired pressure range is secured, write the pressure range and unit of measurement for each line item on the order. If a conflict occurs between a specified pressure code and the designated pressure range / unit of measurement, the latter shall prevail in processing the order.



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Pressure Ranges

kPa		bar		kg/cm ²		MPa	
CODE	RANGE	CODE	RANGE	CODE	RANGE	CODE	RANGE
CA	200	40	2	GA	2		
		41 (135°)	2				
CB	250						
CC	400	42	4	GC	4		
				GB	6		
CD	700	43	7	GD	7		
CE	1000	44	10	GE	10	EE	1
CF	1400	45	14				
CL	1600			GL	16		
CG	2000	46	20	GG	20	EG	2
				GH	25		
CI	2800	56	28				
		47	35	GI	35		
CJ	4000	48	40	GJ	40	EJ	4
				GK	60		
CK	7000	49	70				
CM	10,000	50	100	GM	100	EM	10
CN	14,000	51	140				
				GN	160		
CP	20,000	52	200	GP	200	EP	20
CQ	25,000	58	250	GQ	250	EQ	25
		55	280				
CR	35,000	53	350	GR	350	ER	35
CS	40,000	57	400	GS	400	ES	40
CW	60,000			GW	600		
CT	70,000	54	700	GT	700	ET	70
CU	100,000			GU	1000	EU	100

NOTES

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Pressure Ranges

FSW		MSW FSW		FSW psi	
CODE	RANGE	CODE	RANGE	CODE	RANGE
70	70	87	21 70	SA	70 30
71 (200°)	100				
				SC	140 60
72	150	86	45 150		
83	230	92	70 230	SD	230 100
73	250	88	75 250		
74	300	89	90 300		
75	350	90	100 350	SE	350 150
76	450	91	140 450	SF	450 200
77	600				
78	700			SG	700 300
		93	225 750		
				SH	900 400
79	1000	94	300 1000		
85	1200	96	350 1200	SI	1200 500
				SJ	1400 600
80	1500	95	450 1500		
81	2000				
82	3500	97	1000 3500	SM	3500 1500

ft H ₂ O		ft H ₂ O psi		in H ₂ O psi	
CODE	RANGE	CODE	RANGE	CODE	RANGE
WB	70	HA	70 30	WA	840 30
		HC	140 60		
WC	150				
WD	250	HD	230 100		
		HE	350 150		
WF	460	HF	450 200		
WH	1000	HG	700 300		

NOTES

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DIAL AVAILABILITY CHART

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Compound Ranges

inHg / psi		psi		psi kPa		kPa	
CODE	RANGE	CODE	RANGE	CODE	RANGE	CODE	RANGE
26	30 / 15	P1	-15 / 15				
27	30 / 30	P2	-15 / 30	B1	30inHg / 30 -100 / 200		
						C2	-100 / 300
24	30 / 60	P3	-15 / 60	B2	30inHg / 60 -100 / 400		
29	30 / 100	P4	-15 / 100	B3	30inHg / 100 -100 / 700	C3	-100 / 700
						C4	-100 / 900
28	30 / 150	P5	-15 / 150	B4	30inHg / 150 -100 / 1000	C5	-100 / 1000
35	30 / 160	P6	-15 / 160	B5	30inHg / 160 -100 / 1100		
30	30 / 200	P7	-15 / 200	B6	30inHg / 200 -100 / 1400		
31	30 / 300	P8	-15 / 300	B7	30inHg / 300 -100 / 2000		
32	30 / 400						
33	30 / 500						
34	30 / 600						
bar		bar psi		mmHg / kg/cm ²		cmHg / kg/cm ² inHg / psi	
CODE	RANGE	CODE	RANGE	CODE	RANGE	CODE	RANGE
61	-1 / 2	D1	-1 / 2 30inHg / 30	G1	760 / 2	A1	80 / 2 30 / 30
62	-1 / 3						
66	-1 / 4	D2	-1 / 4 30inHg / 60	G2	760 / 4	A2	80 / 4 30 / 60
				G3	760 / 6		
63	-1 / 7	D3	-1 / 7 30inHg / 100			mmHg	
64	-1 / 10	D4	-1 / 10 30inHg / 150	G4	760 / 10	CODE	RANGE
		D5	-1 / 11 30inHg / 160			J1	-760 / 760
65	-1 / 14	D6	-1 / 14 30inHg / 200				
68	-1 / 20	D7	-1 / 20 30inHg / 300				
67	-1 / 28						

NOTES

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DIAL AVAILABILITY CHART

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Vacuum Ranges

inHg		bar		inHg kPa		kPa	
CODE	RANGE	CODE	RANGE	CODE	RANGE	CODE	RANGE
25	30 / 0	60	-1 / 0	B0	30 -100	C0	-100 / 0
inHg mmHg			mmHg		mmHg inHg		
CODE	RANGE	CODE	CODE	CODE	RANGE		
VA	30 760	VB	760 / 0	VC	760 30		

Receiver Ranges		Refrigerant Ranges	
CODE	RANGE	CODE	RANGE
KA (was 35)	0-100% (with numerals)	RC	30inHg-0-30 R114
KB (was 36)	0-10 sq rt (with numerals)	RG‡	30inHg-0-150 Ammonia
KC (was 39)	3-15 psi (with numerals)	RH	30inHg-0-150 R12
KD (was 37)	0-100 linear (less numerals)	RI	30inHg-0-150 R22
KE (was 38)	0-10 sq rt (less numerals)	RD	30inHg-0-150 R134a
		RL	30inHg-0-200 R134a
		RQ‡	30inHg-0-300 Ammonia
		RR	30inHg-0-300 R12
		RS	30inHg-0-300 R22
		‡ Specify Microbraz® welds	

NOTES

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DIAL AVAILABILITY CHART

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Test Dial Specifications - psi Ranges

CODE	RANGE	FIGURE INTERVAL		DIAL GRADUATIONS			
		MAJOR	MINOR	MAJOR	INTERMEDIATE		MINOR
					Long	Short	
00	0-15 (135°)	5	1	5	1	0.5	0.1
01	0-30	5	1	5	1	0.5	0.1
02	0-30 (135°)	5	1	5	1	-	0.2
03	0-60	5	1	5	1	-	0.2
04	0-100	10	2	10	2	1	0.5
05	0-150	10	2	10	2	1	0.5
23	0-160	10	2	10	2	1	0.5
06	0-200	20	2	10	2	-	1
07	0-300	50	10	50	10	5	1
08	0-400	50	10	50	10	-	2
20	0-500	50	10	50	10	-	2
09	0-600	50	10	50	10	-	2
10	0-800	100	20	100	20	10	5
11	0-1000	100	20	100	20	-	5
12	0-1500	100	20	100	20	-	5
13	0-2000	200	20	100	20	-	10
14	0-3000	500	100	500	100	50	10
22	0-4000	500	100	500	100	-	20
15	0-5000	500	100	500	100	-	20
16	0-6000	500	100	500	100	-	20
21	0-8000	1000	200	1000	200	-	40
17	0-10,000	1000	200	1000	200	100	50
18	0-15,000	1000	200	1000	200	-	50

NOTES

1. Minor dial graduations on some 6" and 8½" gauges may have twice the resolution of the number shown. Graduations on 2½" gauges may not comply with ASME B40.100 or the above chart due to space limitations.
2. For accuracy limitations, see [Accuracy Specifications](#) sheet.



DIAL AVAILABILITY CHART

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Process Dial Specifications - psi Ranges

CODE	RANGE	FIGURE INTERVAL		DIAL GRADUATIONS			
		MAJOR	MINOR	MAJOR	INTERMEDIATE		MINOR
					Long	Short	
00	0-15 (135°)	5	-	5	1	-	0.25
01	0-30	3	-	3	1	-	0.2
02	0-30 (135°)	5	-	5	1	-	0.5
03	0-60	5	-	5	2.5	-	0.5
04	0-100	10	-	10	5	-	1
05	0-150	15	-	15	5	-	1
23	0-160	20	-	20	10	-	2
06	0-200	20	-	20	10	-	2
07	0-300	50	-	50	10	-	2
08	0-400	50	-	50	25	-	5
20	0-500	50	-	50	25	-	5
09	0-600	100	-	100	25	-	5
10	0-800	100	-	100	50	-	10
11	0-1000	100	-	100	50	-	10
12	0-1500	150	-	150	50	-	10
13	0-2000	200	-	200	100	-	20
14	0-3000	500	-	500	100	-	25
22	0-4000	500	-	500	250	-	50
15	0-5000	500	-	500	250	-	50
16	0-6000	1000	-	1000	500	250	50
21	0-8000	1000	-	1000	500	-	100
17	0-10,000	1000	-	1000	500	-	100
18	0-15,000	1500	-	1500	500	-	100

NOTES

For accuracy limitations, see [Accuracy Specifications](#) sheet.



DIAL AVAILABILITY CHART

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Test Dial Specifications - Vacuum and Compound Range

CODE	RANGE	FIGURE INTERVAL		DIAL GRADUATIONS			
		MAJOR	MINOR	MAJOR	INTERMEDIATE		MINOR
					Long	Short	
26	30inHg-0 (132°) 0-15 psi (135°)	5	1	5	1	-	0.5
		5	1	5	1	0.5	0.2
25	30inHg-0 (135°)	5	1	5	1	-	0.25
27	30inHg-0 (66°) 0-30 psi (135°)	10	2	10	2	-	0.5
		5	1	5	1	-	0.2
24	30inHg-0 (66°) 0-60 psi	10	2	10	2	1	0.5
		5	1	5	1	0.5	0.25
29	30inHg-0 (40°) 0-100 psi	10	5	10	5	-	1
		10	2	10	2	1	0.5
28	30inHg-0 (26°) 0-150 psi	10	5	10	5	-	1
		10	2	10	2	-	0.5
35	30inHg-0 (26°) 0-160 psi	10	5	10	5	-	1
		10	2	10	2	1	0.5
30	30inHg-0 (20°) 0-200 psi	30	10	30	10	-	2
		20	2	20	10	2	1
31	30inHg-0 (13°) 0-300 psi	30	10	30	-	10	2
		50	10	50	10	5	1
32	30inHg-0 (10°) 0-400 psi	30	-	30	10	-	5
		50	10	50	10	-	2
33	30inHg-0 (8°) 0-500 psi	30	-	30	10	-	5
		50	10	50	10	-	2
34	30inHg-0 (7°) 0-600 psi	30	-	30	15	-	7.5
		50	10	50	10	-	2

NOTES

1. Minor dial graduations on some 6" and 8½" gauges may have twice the resolution of the number shown. Graduations on 2½" gauges may not comply with ASME B40.100 or the above chart due to space limitations.
2. For accuracy limitations, see [Accuracy Specifications](#) sheet.
3. Unless otherwise specified, the arc for the positive pressure side is 270°. All other arcs are rounded to the nearest integer.



DIAL AVAILABILITY CHART

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Process Dial Specifications - Vacuum and Compound Ranges

CODE	RANGE	FIGURE INTERVAL		DIAL GRADUATIONS			
		MAJOR	MINOR	MAJOR	INTERMEDIATE		MINOR
					Long	Short	
26	30inHg-0 (132°) 0-15 psi (135°)	5 5	- -	5 5	- 1	- -	1 0.5
25	30inHg-0 (135°)	5	-	5	2.5	-	0.5
27	30inHg-0 (66°) 0-30 psi (135°)	10 5	- -	10 5	5 2.5	- -	1 0.5
24	30inHg-0 (66°) 0-60 psi	10 5	- -	10 5	5 2.5	- -	1 0.5
29	30inHg-0 (40°) 0-100 psi	30 10	- -	10 10	- 5	- -	2 1
28	30inHg-0 (26°) 0-150 psi	30 15	- -	10 15	- 5	- -	2 1
35	30inHg-0 (26°) 0-160 psi	30 20	- -	10 20	- 10	- -	2 2
30	30inHg-0 (20°) 0-200 psi	30 20	- -	15 20	- 10	- -	5 2
31	30inHg-0 (13°) 0-300 psi	30 30	- -	30 30	15 10	- -	5 2
32	30inHg-0 (10°) 0-400 psi	30 50	- -	30 50	10 25	- -	7.5 5
33	30inHg-0 (8°) 0-500 psi	30 50	- -	30 50	15 25	- -	7.5 5
34	30inHg-0 (7°) 0-600 psi	30 100	- -	30 50	15 25	- -	7.5 5

NOTES

1. For accuracy limitations, see [Accuracy Specifications](#) sheet.
2. Unless otherwise specified, the arc for the positive pressure side is 270°. All other arcs are rounded to the nearest integer.



DIAL AVAILABILITY CHART

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Test Dial Specifications - bar Ranges

CODE	RANGE	FIGURE INTERVAL		DIAL GRADUATIONS			
		MAJOR	MINOR	MAJOR	INTERMEDIATE		MINOR
					Long	Short	
40	0-2	.5	0.1	0.5	0.05	-	0.01
41	0-2 (135°)	.5	0.1	0.5	0.1	-	0.02
42	0-4	.5	0.1	0.5	0.1	-	0.02
43	0-7	1	0.1	1	0.5	0.1	0.025
44	0-10	1	0.2	1	0.2	-	0.05
45	0-14	2	0.2	1	0.2	-	0.05
46	0-20	2	0.2	1	0.2	-	0.1
56	0-28	4	-	4	1	-	0.2
47	0-35	5	-	5	1	-	0.2
48	0-40	5	1	5	1	-	0.2
49	0-70	5	1	5	1	-	0.25
50	0-100	10	2	10	2	1	0.5
51	0-140	20	2	20	10	2	0.5
52	0-200	20	2	20	10	2	1
55	0-280	40	-	40	10	-	2
53	0-350	50	10	50	10	-	2
57	0-400	50	-	50	10	-	2
54	0-700	100	10	100	50	10	2.5

NOTES

1. Minor dial graduations on some 6" and 8½" gauges may have twice the resolution of the number shown. Graduations on 2½" gauges may not comply with ASME B40.100 or the above chart due to space limitations.
2. For accuracy limitations, see [Accuracy Specifications](#) sheet.



DIAL AVAILABILITY CHART

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Process Dial Specifications - bar Ranges

CODE	RANGE	FIGURE INTERVAL		DIAL GRADUATIONS			
		MAJOR	MINOR	MAJOR	INTERMEDIATE		MINOR
					Long	Short	
40	0-2	.5	-	.5	0.1	-	0.02
41	0-2 (135°)	.5	-	.5	0.25	-	0.05
42	0-4	.5	-	.5	-	0.25	0.05
43	0-7	1	-	1	-	0.25	0.05
44	0-10	1	-	1	-	0.5	0.1
45	0-14	2	-	2	0.5	-	0.1
46	0-20	2	-	2	1	-	0.2
56	0-28	4	-	4	1	-	0.2
47	0-35	5	-	5	1	-	0.25
48	0-40	5	-	5	2.5	-	0.5
49	0-70	10	-	10	2.5	-	0.5
50	0-100	10	-	10	5	-	1
51	0-140	20	-	20	5	-	1
52	0-200	20	-	20	10	-	2
58	0-250	50	-	50	10	-	2
55	0-280	40	-	40	10	-	2
53	0-350	50	-	50	10	-	5
57	0-400	50	-	50	25	-	5
54	0-700	100	-	100	25	-	5

NOTES

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DIAL AVAILABILITY CHART

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Test Dial Specifications - FSW Ranges

CODE	RANGE	FIGURE INTERVAL		DIAL GRADUATIONS			
		MAJOR	MINOR	MAJOR	INTERMEDIATE		MINOR
					Long	Short	
70	0-70	10	1	10	5	1	0.25
71	0-100 (200°)	10	2	10	2	1	0.5
72	0-150	10	2	10	2	-	0.5
73	0-250	25	5	25	5	-	1
74	0-300	50	10	50	10	5	1
75	0-350	50	10	50	10	-	2
76	0-450	50	10	50	10	-	2
77	0-600	50	10	50	10	-	2
78	0-700	100	10	50	10	-	2.5
79	0-1000	100	20	100	20	-	5
80	0-1200	100	20	100	20	10	5
81	0-1500	100	20	100	20	10	5
82	0-2000	200	20	100	20	-	10
85	0-3500	500	100	500	100	-	20

NOTES

Minor dial graduations on some 6" and 8½" gauges may have twice the resolution of the number shown. Graduations on 2½" gauges may not comply with ASME B40.100 or the above chart due to space limitations.



DIAL AVAILABILITY CHART

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Test Dial Specifications - MSW/FSW Ranges

CODE	RANGE	FIGURE INTERVAL		DIAL GRADUATIONS			
		MAJOR	MINOR	MAJOR	INTERMEDIATE		MINOR
					Long	Short	
87	0-21	3	-	3	1	0.5	0.1
	0-70	10	-	10	5	1	0.25
86	0-45	5	-	5	1	-	0.2
	0-150	10	-	10	5	2.5	0.5
88	0-75	10	-	10	5	1	0.25
	0-250	50	-	50	10	5	1
89	0-90	10	-	10	5	1	0.5
	0-300	50	-	50	10	5	1
90	0-100	10	-	10	5	1	0.5
	0-350	50	-	50	10	-	2
91	0-140	10	-	10	5	-	0.5
	0-450	50	-	50	10	-	2
93	0-225	25	-	25	5	-	1
	0-750	100	-	100	50	10	2.5
94	0-300	50	-	50	10	-	2
	0-1000	100	-	100	50	25	5
96	0-350	50	-	50	10	-	2
	0-1200	200	-	100	20	10	5
95	0-450	50	-	50	10	-	2
	0-1500	100	-	100	50	25	5
97	0-1000	100	-	100	20	-	5
	0-3500	500	-	500	100	-	20

NOTES

Minor dial graduations on some 6" and 8½" gauges may have twice the resolution of the number shown. Graduations on 2½" gauges may not comply with ASME B40.100 or the above chart due to space limitations.