

Data Sheet

1005 Commercial Pressure Gauge

FEATURES

- PowerFlex™ movement provides superior resistance to shock, vibration and pulsation
- TrueZero™ reduces reading errors by using “zero-box” instead of conventional pins
- FlutterGuard™ (option) reduces movement wear and pointer flutter
- Customized dial printing
- Heat resistant push-in polycarbonate window

TYPICAL USES

- Pumps and compressors
- Filter regulators
- Fluid power equipments
- Medical equipment
- Pool and spa filters
- Hydraulics and pneumatics
- OEM equipment
- Beverage dispensing equipment
- Industrial machinery



1005
1½", 2", 2½", 3½" dial size

SPECIFICATIONS

Accuracy:	±3-2-3% of span (ASME B40.100 Grade B)
Dial Sizes:	1½", 2", 2½", 3½"
Ranges:	1½" Vacuum to 1,000 psi 2", 2½", 3½" Vacuum, compound to 6,000 psi
Process Connection Location:	Lower, center back
Process Connection Size:	⅛ and ¼ NPT Male
Dial:	Black figures on white background, aluminum
Pointer:	Black, aluminum, adjustable, min/max assembly
Movement:	PowerFlex™ with polyester segment
Dampening options:	FlutterGuard™
Approvals:	UL 404, High pressure compressed gas (2", 1,000-4,000 psi) UL 252A, Compressed gas regulator accessories (2", 30-300 psi)

WETTED COMPONENTS

Bourdon Tube	Process Connection	Restrictor
Bronze	Brass	0.013" orifice restrictor in gauges 1,000 psi and above

NON-WETTED COMPONENTS

Case	Window
Black painted steel	Polycarbonate

KEY BENEFITS

- Customizable for new applications
- Easy readability
- Long lasting

MIN/MAX TEMPERATURE LIMITS

Version	Ambient	Process	Storage
Dry	-40°F to 150°F (-40°C to 65°C)	-40°F to 150°F (-40°C to 65°C)	-40°F to 150°F (-40°C to 65°C)

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ORDERING CODE	Example:	20	W	1005H	02	L	XAP	400#
Dial Size								
15 - 1½"								
20 - 2"		20						
25 - 2½"								
35 - 3½"								
Movement type								
W - PowerFlex™			W					
Model								
1005H - black painted steel/brass process connection material				1005H				
Process Connection Size								
01 - ¼ NPT Male								
02 - ¼ NPT Male (not available on 1½" gauge)					02			
KJ - ¼ straight BSPT; PT ¼ JIS (not available on 1½" gauge)								
KA - ¼ tapered BSPT; PT ¼ JIS (not available on 1½" gauge)								
KG - ½ BSPT; R ½								
13 - G ¼ B (not available on 1½" gauge)								
77 - G ½ no spigot								
Process Connection Location								
L - Lower						L		
B - Center back								
T - Top								
E - Left side								
D - Right side								
Options (See Table 1 below for additional options (If choosing an option(s) must include an "X")								
AP - Adjustable pointer							X	AP
Ranges (coding example see range table on page 3 for all standard ranges)								
Single Scale								
400# - 400 psi								400#

TABLE 1 - OPTIONS (minimums may apply)

13	Glass window/chrome friction ring	RU	UL252A listed. (only available in ranges, 30-300 psi)
14	Lexan® window/chrome friction ring	SF	FlutterGuard™ (includes 0.013" orifice restrictor)
7F	FlutterGuard™ logo on dial (can only be used in conjunction with XSF FlutterGuard option)	T4	0.007" orifice restrictor
AP	Adjustable Pointer	T5	0.013" orifice orifice restrictor (0.013" orifice restrictor standard in ranges 1,000-6,000 psi)
EP	Min./Max. pointer	T6	Dial Marking "Transmit"
M1	Dial marking "Supply"	T7	0.020" orifice restrictor
M2	Dial Marking "Output"	T9	0.063" orifice restrictor
M3	Dial marking "Instrument"	TC	Teflon® tape on socket
NP	Nickel plated socket	UL	UL404 listed. (only available in ranges 1,000-4,000 psi)
PR	Receiver gauge dial code; 12#-ALK (0-100 linear); 12#-ALL (0/100%); 12#-APR (0-10sq. root)	VH	Vent hole in case
RG	Glass window/black friction ring	YZ	Chrome plated case
RL	Lexan® window/black friction ring	Z0	Bulk pack
RS	RoHS compliant	ZP	Customer part number on carton/plain white label
		ZQ	Customer part number printed directly on carton

Black protective boot (Lower connect only - must be ordered separately - not part of product code)

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TABLE 2

MODEL		1005						
Dial Size	1½"	2"	2"	2½"	2½"	3½"	3½"	3½"
Case	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel
Conn. Size	⅛	⅛	¼	⅛	¼	⅛	⅛	¼
Conn. Type	Lower/Back	Lower/Back	Lower/Back	Lower/Back	Lower/Back	Lower	Back	Lower/Back

psi	CODE	bar	CODE	AVAILABILITY					
30IMV/0	VAC	-1/0	VAC-ABE	•	•	•	•	•	•
30IMV/15	15#&VAC	-1/0/1.5	15/V-AAA	•	•	•	•	•	•
30IMV/30	30#&VAC			•	•	•	•	•	•
30IMV/60	60#&VAC	-1/0/3	60/V-AAU	•	•	•	•	•	•
30IMV/100	100#&VAC	-1/0/5	100/V-AAW	•	•	•	•	•	•
30IMV/160	160#&VAC		160/V-AYY	•	•	•	•	•	•
30IMV/300	300#&VAC		300/V-ABB	•	•	•	•	•	•
0/15	15#	0/1	15#-AAA	•	•	•	•	•	•
		0/1.6	20#-AAB	•	•	•	•	•	•
0/30	30#	0/2.5	30#-AAD	•	•	•	•	•	•
0/60	60#	0/4	60#-AAF	•	•	•	•	•	•
0/100	100#	0/6	100#-AAG	•	•	•	•	•	•
		0/7	100#-AAH	•	•	•	•	•	•
0/160	160#	0/10	160#-AAI	•	•	•	•	•	•
0/200	200#	0/16	200#-AAL	•	•	•	•	•	•
0/300	300#			•	•	•	•	•	•
0/400	400#	0/25	300#-AAN	•	•	•	•	•	•
0/600	600#	0/40	600#-AAP	•	•	•	•	•	•
0/1000	1000#	0/60	1000#-AMK	•	•	•	•	•	•
0/1500	1500#	0/100	1500#-AMM	•	•	•	•	•	•
0/2000	2000#	0/160	2000#-AMO	•	•	•	•	•	•
0/3000	3000#			•	•	•	•	•	•
0/4000	4000#	0/250	4000#-AMQ	•	•	•	•	•	•
0/5000	5000#			•	•	•	•	•	•
0/6000	6000#	0/400	6000#-AUE	•	•	•	•	•	•

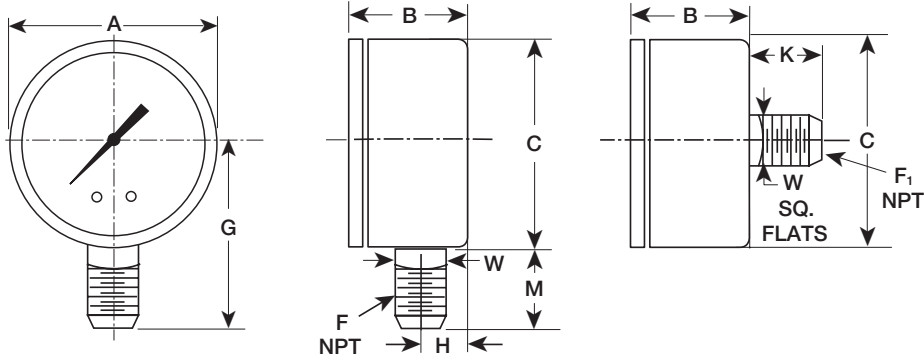
KPA	CODE	KG/CM	CODE	AVAILABILITY					
-100/0	VAC-AGF	76cmHG/0	VAC-ADP	•	•	•	•	•	•
		76cmHG/0/1	15/V-ADB	•	•	•	•	•	•
-100/0/150	30/V-AFT	76cmHG/0/2	30/V-ADD	•	•	•	•	•	•
-100/0/300	60/V-AFV	76cmHG/0/3	60/V-BEI	•	•	•	•	•	•
		76cmHG/0/4	60/V-ALQ	•	•	•	•	•	•
-100/0/500	100/V-AFX	76cmHG/0/6	100/V-BEJ	•	•	•	•	•	•
-100/0/900	160/V-AFZ	76cmHG/0/6	160/V-ADI	•	•	•	•	•	•
		76cmHG/0/20	300/V-BEL	•	•	•	•	•	•
0/100	15#-AFB	0/1	15#-ACK	•	•	•	•	•	•
0/160	20#-AFC			•	•	•	•	•	•
0/200	30#-AFD	0/2	30#-ACM	•	•	•	•	•	•
0/250	30#-AFE	0/3	45#-ACO	•	•	•	•	•	•
0/400	60#-AFG	0/4	60#-ACP	•	•	•	•	•	•
0/600	100#-AFH	0/6	100#-ACQ	•	•	•	•	•	•
0/800	120#-BAT			•	•	•	•	•	•
0/1000	160#-AFJ	0/10	160#-ACS	•	•	•	•	•	•
0/1600	200#-AFM	0/15	200#-BEA	•	•	•	•	•	•
		0/20	300#-BEB	•	•	•	•	•	•
0/2500	400#-AFO	0/25	400#-ACX	•	•	•	•	•	•
0/4000	600#-AFQ	0/35	600#-BEC	•	•	•	•	•	•
		0/40	600#-ACZ	•	•	•	•	•	•
		0/50	600#-BED	•	•	•	•	•	•
0/6000	1000#-BAU	0/70	1000#-ANB	•	•	•	•	•	•
0/8000	1000#-BAV			•	•	•	•	•	•
0/10,000	1500#-ATK	0/100	1500#-ANC	•	•	•	•	•	•
0/16,000	2000#-BAW	0/150	2000#-BEE	•	•	•	•	•	•
0/25,000	4000#-BAX	0/250	4000#-ANG	•	•	•	•	•	•
		0/350	5000#-BEF	•	•	•	•	•	•
0/40,000	6000#-ATU	0/500	6000#-BEG	•	•	•	•	•	•

For dual scale ranges consult factory

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DIMENSIONS [] are mm



Dial Size inches (mm)	A	B		C	F NPT	F ₁ NPT	G	H	K	M	W		Weight oz / kg	
		Lower	Back								Lower	Back	Lower	Back
1¼"	1.62 [42]	0.86 [22]	0.99 [25]	1.6 [41]	⅛	⅛	1.46 [37]	0.28 [7]	0.67 [17]	0.66 [17]	0.56 [14]	0.44 [11]	2.05 oz 0.058 kg	1.98 oz 0.056 kg
2"	2.09 [53]	1.04 [26]	1.04 [26]	2.05 [52]	⅛ or ¼	⅛ or ¼	1.85 [47]	0.34 [9]	0.88 [22]	0.82 [21]	0.56 [14]	0.56 [14]	3.10 oz 0.088 kg	3.67 oz 0.104 kg
2½"	2.73 [69]	1.10 [28]	1.07 [27]	2.68 [68]	⅛ or ¼	⅛ or ¼	2.18 [55]	0.36 [9]	0.88 [22]	0.84 [21]	0.56 [14]	0.56 [14]	4.52 oz 0.128 kg	4.09 oz 0.116 kg
3½"	3.67 [93]	1.21 [31]	1.21 [31]	3.61 [92]	⅛ or ¼	⅛ or ¼	2.72 [69]	0.43 [11]	0.88 [22]	0.92 [23]	0.56 [14]	0.56 [14]	6.56 oz 0.186 kg	5.57 oz 0.158 kg