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Data Sheet

1005 Commercial Pressure Gauge

FEATURES

- Power***Flex***™ 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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1005 Commercial Pressure Gauge

ORDERING CODE Example:	20	W	1005H	02	L	XAP	400#
Dial Size							
15 - 1½″							
20 - 2″	20						
25 - 2½″							
35 - 3½″							
Movement type							
W - Power*Flex*™		W					
Model							
1005H - black painted steel/brass process connection material			1005H				
Process Connection Size							
01 - ⅛ 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 - ⅛ BSPT; R ⅛							
13 - G ¼ B (not available on 1½″ gauge)							
77 - G ⅛ 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")						X__	
AP - Adjustable pointer						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
14	Lexan® window/chrome friction ring
7F	FlutterGuard™ logo on dial (can only be used in conjunction with XSF FlutterGuard option)
AP	Adjustable Pointer
EP	Min./Max. pointer
M1	Dial marking "Supply"
M2	Dial Marking "Output"
M3	Dial marking "Instrument"
NP	Nickel plated socket
PR	Receiver gauge dial code; 12#-ALK (0-100 linear); 12#-ALL (0/100%); 12#-APR (0-10sq. root)
RG	Glass window/black friction ring
RL	Lexan® window/black friction ring
RS	RoHS compliant
RU	UL252A listed. (only available in ranges, 30-300 psi)
SF	FlutterGuard™ (includes 0.013″ orifice restrictor)
T4	0.007″ orifice restrictor
T5	0.013″ orifice orifice restrictor (0.013″ orifice restrictor standard in ranges 1,000-6,000 psi)
T6	Dial Marking "Transmit"
T7	0.020″ orifice restrictor
T9	0.063″ orifice restrictor
TC	Telfon® tape on socket
UL	UL404 listed. (only available in ranges 1,000-4,000 psi)
VH	Vent hole in case
YZ	Chrome plated case
ZO	Bulk pack
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-AAY		•	•	•	•			•
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#-AM0			•		•			•
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#-AF0	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

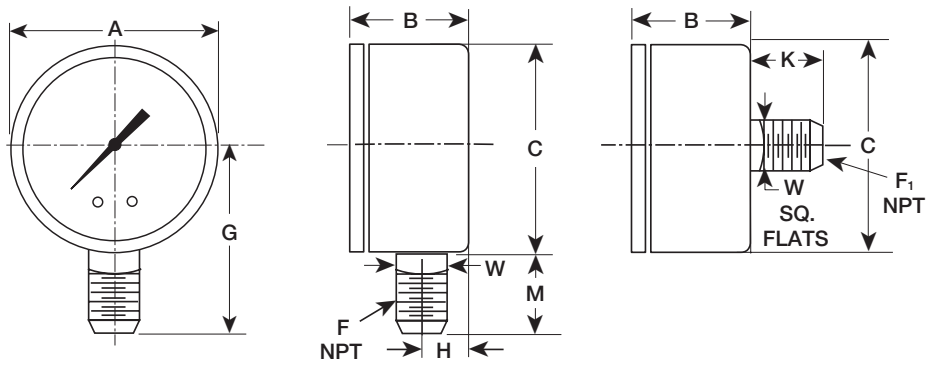
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DIMENSIONS [ ] are mm



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

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