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Data Sheet

1005P Commercial Pressure Gauge

FEATURES

- Power*Flex*™ movement provides superior resistance to shock, vibration and pulsation
- TrueZero™ reduces reading errors by using a "zero box" instead of convential dial pins
- Panel Mount conversion kit to transform back connect gauge into a panel-mount gauge
- Corrosion resistance ABS case
- Bulk packaging

TYPICAL USES

- Pumps and Compressors
- Filter Regulators and Water Pumps
- Beverage Dispensing Systems
- Instrument and Controls
- Medical equipment
- Automotive applications
- Fluid power equipment



1005P
1½″, 2″, 2½″, 3½″ dial sizes

KEY BENEFITS

- **Customizable for new applications**
- **Conversion kits available**

SPECIFICATIONS

Accuracy:	±3-2-3% of span (ASME B40.100 Grade B)
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, Back
Process Connection Size:	⅛ and ¼ NPT (1½″ not available in ¼ NPT)
Dial:	Black figures on white background, aluminum
Pointer:	Black, aluminum (STD.)
Movement:	Power*Flex*™ with polyester segment
Dampening options:	FlutterGuard™
Approvals:	UL 404, High Pressure 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 throttle plug in gauges 1,000 psi and above

NON-WETTED COMPONENTS

Case	Window
Black ABS	Polycarbonate

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	1005	P	H	02	L	XAP	400#
Dial Size									
15 - 1½″									
20 - 2″	20								
25 - 2½″									
35 - 3½″									
Movement type									
Power*Flex*™		W							
Model									
1005			1005						
Case/Window Material									
P - ABS/Polycarbonate				P					
Process Connection Material									
H - Brass					H				
Process Connection Size									
01 - ⅛ NPT									
02 - ¼ NPT (not avaiable in 1½″)						02			
KJ - ¼ straight BSPT; PT ¼ JIS									
KA - ¼ tapered BSPT; PT ¼ JIS									
KG - ⅛ BSPT; R ⅛									
13 - G ¼ B									
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 on page 2 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)

AP	Adjustable Pointer
EP	Min/max pointer
NP	Nickel plated socket
PR	Receiver gauge dial code; 12# - ALK (0-100 linear) 12# - ALL (0-100%) 12# - APR (0-10 sq root)
RS	RoHS (EN directives 2011/65/EN and 2015/863)
RU	UL252A listed. (only available in 2″ dial; ranges 30-300 psi)
SF	FlutterGuard™ (includes 0.013″ orifice throttle plug)
TC	Telfon® tape on socket
UC	Panel mounting sleeve
UL	UL404 listed. (2″ dial; ranges 1,000-4,000 psi)
VH	Vent hole in case
Z0	Bulk pack
ZP	Customer part number on carton/plain white label
ZQ	Customer part number printed directly on carton
M1	Dial marking “Supply”
M2	Dial Marking “Output”
M3	Dial marking “Instrument”
T4	0.007″ orifice restrictor
T5	0.013″ orifice restrictor (0.013″ orifice throttle plug standard in ranges 1000-6000 psi)
T6	Dial Marking “Transmit
T7	0.020″ orifice restrictor
T9	0.063″ orifice restrictor
7F	FlutterGuard™ logo (can only be used in conjunction with XSF (FlutterGuard option)

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

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TABLE 2 - RANGES

Model				1005P										
				Dial Size	1½″	2″	2″	2″	2½″	2½″	2½″	3½″	3½″	3½″	3½″
				Case	ABS	ABS	ABS	ABS	ABS	ABS	ABS	ABS	ABS	ABS	ABS
				Conn. Size	⅛	⅛	¼	¼	⅛	⅛	¼	⅛	⅛	¼	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#-AMO			•	•		•	•		•	•	•
0/3000	3000#					•	•		•	•		•	•	•
0/4000	4000#	0/250	4000#-AMQ			•	•		•	•		•	•	•
0/5000	5000#					•	•		•	•		•	•	•
0/6000	6000#	0/400	6000#-AUE			•	•		•	•		•	•	•
kPa	CODE	kg/cm²	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			•		•	•		•	•		•	•	•
0/10000	1500#-ATK	0/100	1500#-ANC			•	•		•	•		•		•
0/16000	2000#-BAW	0/150	2000#-BEE			•	•		•	•		•	•	•
0/25000	4000#-BAX	0/250	4000#-ANG			•	•		•	•		•	•	•
		0/350	5000#-BEF			•	•		•	•		•	•	•
0/40000	6000#-ATU	0/500	6000#-BEG			•	•		•	•		•	•	•

FOR DUAL SCALE RANGES CONSULT FACTORY

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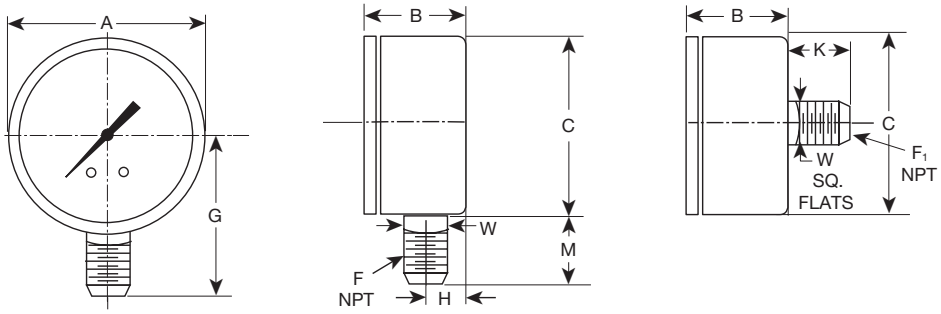
1005P Commercial Pressure Gauge

DIMENSIONS in [ ] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

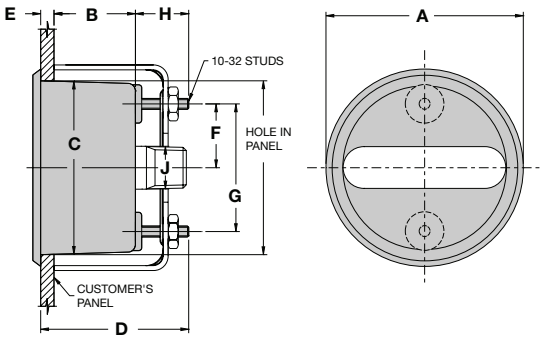
Lower and Back Connections

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	Lower	Back
1½″	1.66 [42]	1.64 [42]	1.07 [27]	1.01 [26]	1.6 [41]	⅛	⅛	1.41 [36]	0.38 [10]	0.62 [17]	0.62 [16]	0.56 [14]	0.44 [11]	1.62 oz 0.068 kg	1.55 oz 0.044 kg
2″	2.11 [54]	2.11 [54]	1.07 [27]	1.05 [27]	2.05 [52]	⅛ or ¼	⅛ or ¼	1.85 [47]	0.38 [10]	0.85 [22]	0.82 [21]	0.56 [14]	0.56 [14]	2.40 oz 0.068	2.75 oz 0.078 kg
2½″	2.74 [70]	2.74 [70]	1.12 [28]	1.14 [29]	2.67 [68]	⅛ or ¼	⅛ or ¼	2.18 [55]	0.38 [10]	0.78 [20]	0.83 [21]	0.56 [14]	0.56 [14]	2.89 oz 0.082 kg	3.17 oz 0.090 kg
3½″	3.70 [94]	3.70 [94]	1.14 [29]	1.28 [32]	3.62 [92]	⅛ or ¼	⅛ or ¼	2.72 [69]	0.43 [11]	0.72 [18]	0.92 [23]	0.56 [14]	0.56 [14]	5.36 oz 0.152 kg	4.37 oz 0.124 kg



ABS Case Panel Mount Sleeve

Inches [mm]	A	B	C	D	E	F	G	H	J	Conn. NPT
1½″	2.05 [52]	1.04 [27]	1.75 [45]	1.85 [47]	0.13 [3]	0.60 [14]	1.19 [30]	0.68 [18]	7⁄16 sq. [11]	⅛
2″	2.52 [64]	1.04 [27]	2.23 [57]	1.89 [48]	0.17 [4]	0.82 [21]	1.63 [41]	0.68 [18]	9⁄16 sq. [14]	⅛ or ¼
2½″	3.17 [81]	1.13 [29]	2.84 [72]	1.98 [50]	0.17 [4]	1.13 [29]	2.26 [57]	0.68 [18]	9⁄16 sq. [14]	⅛ or ¼
3½″	4.08 [104]	1.23 [31]	3.80 [96]	2.11 [54]	0.20 [5]	1.61 [41]	3.22 [82]	0.68 [18]	9⁄16 sq. [14]	⅛ or ¼



Panel Cut Out

Inches [mm]	Min.	Max.
1½″	1.850 [47]	1.968 [50]
2″	2.330 [59]	2.440 [62]
2½″	2.920 [74]	3.075 [78]
3½″	3.898 [99]	4.016 [102]

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