

Data Sheet

1005S Commercial Pressure Gauge

FEATURES

- PowerFlex™ movement provides superior resistance to shock, vibration and pulsation
- TrueZero™ unique safety indicator
- FlutterGuard™ (option) reduces movement wear and pointer flutter
- High degree of corrosion resistance
- Customizable dial printing
- Bulk packaging available

TYPICAL USES

- Pumps and compressors
- Filter regulators and water pumps
- Beverage dispensing systems
- Instrument and controls
- Medical equipment
- Automotive applications
- OEM equipment



1005S
1½", 2" dial sizes



SPECIFICATIONS

Accuracy:	±3-2-3% of span (ASME B40.100 Grade B)
Dial Sizes:	1½", 2"
Ranges:	Vacuum, compound to 600 psi (1½" available in vacuum to 300 psi only)
Process Connection Location:	Lower, Back
Process Connection Size:	1½": ½ NPT Male 2": ½ 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™

WETTED COMPONENTS

Bourdon Tube	Process Connection
Bronze	Brass

NON-WETTED COMPONENTS

Case	Window
Stainless steel	Polycarbonate

KEY BENEFITS

- Customizable for new applications
- 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	1005	S	H	02	L	XAP	400#
Dial Size										
15 - 1½"										
20 - 2"		20								
Movement type										
PowerFlex™			W							
Model										
1005				1005						
Case/Window Material										
S - Stainless steel/Polycarbonate					S					
Process Connection Material										
H - Brass						H				
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 (not available on 1½" gauge)								L		
B - Center back										
T - Top (not available on 1½" gauge)										
E - Left side (not available on 1½" gauge)										
D - Right side (not available on 1½" gauge)										
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)

AP	Adjustable pointer	M1	Dial marking "Supply"
EP	Min/max pointer	M2	Dial Marking "Output"
NP	Nickel plated socket	M3	Dial marking "Instrument"
PR	Receiver gauge dial code; 12#-ALK (0-100 linear); 12#-ALL (0/100%); 12#APR (0-10sq. root)	T4	0.007" orifice restrictor
RS	RoHS compliant	T5	0.013" orifice restrictor
SF	FlutterGuard™ (includes 0.013" orifice throttle plug)	T6	Dial Marking "Transmit"
TC	Teflon™ tape on socket	T7	0.020" orifice restrictor
VH	Vent hole in case	T9	0.063" orifice restrictor
Z0	Bulk pack	7F	FlutterGuard™ logo (can only be used in conjunction with XSF – FlutterGuard™)
ZP	Customer part number on carton/plain white label	13	Glass window/chrome friction ring
ZQ	Customer part number printed directly on carton	14	Lexan window/chrome friction ring

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TABLE 2 - RANGES

Model					
Dial Size	1½"	2"	2"	2"	2"
Case	SS	SS	SS	SS	SS
Conn. Size	½"	½"	½"	¼"	¼"
Conn. Type	Back	Lower	Back	Lower	Back

psi	CODE	bar	CODE					
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/cm²	CODE					
-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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DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

Dial Size inches [mm]	Lower and Back Connections												Weight oz / kg	
	A	B		C	F	F ₁	G	H	K	M	W		Lower	Back
		Lower	Back		NPT	NPT					Lower	Back	Lower	Back
1½"	1.62 [42]		0.99 [25]	1.6 [41]		1/8			0.67 [17]			0.44 [11]		1.98 oz 0.056 kg
2"	2.09 [53]	1.04 [26]	1.04 [26]	2.05 [52]	1/8 or 1/4	1/8 or 1/4	1.85 [47]	0.34 [9]	0.88 [22]	0.82 [21]	0.56 [14]	0.56 [14]	2.96 oz 0.084 kg	3.46 oz 0.098 kg

