

FEATURES

- Solid front safety case with pressure relief back
- Dial sizes 4 ½", 6" and 8 ½"
- ±0,5 % of span (ASME B40.100 Grade 2A)
- Customizable dial printing options

TYPICAL USES

- Refineries
- Chemical and petrochemical plants
- Offshore oil rigs
- Water and wastewater pressure control
- Pulp and water
- Mining and metals
- Equipment skids
- Specialized OEM equipment

SPECIFICATION	IS Control of the con						
Accuracy:	±0,5 % of span (ASME B40.100 Grade 2A)						
Dial Size:	4 ½" (115 mm); 6" (152 mm); 8 ½" (216 mm)						
Range:	Vacuum, Compound to 2000 bar/30,000 psi						
Process Connection Location:	Lower, back						
Process Connection:	¼ NPT Male, ½ NPT Male, G ½ B Male, M20x1,5 Male, 9/16 -18 UNF-2B (high pressure connection)						
Case Style:	Solid front with pressure relief back						
Window:	Glass (STD.), safety glass, acrylic, non-glare glass (OPT.)						
Movement:	Rotary, adjustable						
Movement Materials:	Stainless steel 400, Teflon® coated pinion gear and segment						
Dial:	Aluminum, white background, black scale						
Pointer:	Micrometer, adjustable, aluminum						
Weather Protection:	Dry case: Case not sealed, recommended for weather protected environment only						
Dampening Options:	PLUS! [™] Performance, Throttle screw, dampeners, capillary, diaphragm seals and snubbers						
Mounting:	Stem, surface (STD.), flush or remote (OPT.)						
Approvals:	CRN, CE (PED), EAC						

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Bourdon Tube	Process Connection Materials	Joints
1.4404 / 316L St.st.	1.4404 / 316L St.st.	Welded
1.4404 / 316L St.st.	Steel	Welded
K-Monel® 500	Monel® 400	Welded
C510 Phos. Bronze	Brass	Silver brazed











KEY BENEFITS

- Ideal for panel mounting
- Available 8 1/2" dial size for remote reading

NON-WETTED COMPONENTS

Case	Ring	Back Cover
Aluminum, black epoxy	Steel, hinged, black enamel	Stainless steel 300

MIN./MAX. TEMPERATURE LIMITS										
VERSION	AMBIENT	PROCESS	STORAGE							
Dry	-29 °C to 93 °C	-29 °C to 121 °C	-40 °C to 121 °C							
	(-20 °F to 200 °F)	(-20 °F to 250 °F)	(-40 °F to 250 °F)							
PLUS!™	-40 °C to 66 °C	-40 °C to 93 °C	-40 °C to 66 °C							
	(-40 °F to 150 °F)	(-40°F to 200 °F)	(-40 °F to 150 °F)							

Note: Other than discoloration of the dial and hardening of the gasketing that may occur as ambient or process temperatures exceeds 150°F, non-liquid-filled gauges with standard glass windows, can withstand continuous operating temperatures up to 121 °C (250 °F). Accuracy at temperatures above or below the reference ambient temperature of 20 °C (68 °F) will be affected by approximately 0,3% per 10 K.

Gauges with welded joints will withstand 400 °C (750 °F), 232 °C (450 °F) with silver brazed joints for short times without rupture, although other parts of the gauge will be destroyed and calibration will be lost.

For continuous use and for process or ambient temperatures above 121 °C (250 °F), a diaphragm seal or capillary or siphon is recommended.



ORDER	ING CODE	EXAMPLE:	45	1377	S	S	04	L	1BR	XLL		
Dial Size												
45	4 ½" (115 mm)		45									
60	6" (152 mm)											
85	8 ½" (216 mm)											
Model Code)											
1377	Solid front process gauge			1377								
System (tul	pe and process connection)											
Α	Bronze tube, brass process co Max. pressure 70 bar/1,000 ps											
Р	K-Monel® 500 tube, Monel® 400 process connection, Max. pressure 2000 bar/30,000 psi											
R	1.4404/316L St.st. tube, steel process connection, Max. pressure 1400 bar/20,000 psi											
S	1.4404/316L St.st. tube and pr Max. pressure 1400 bar/20,000				S							
Case Desig	·	- _I										
S	Solid front case, dry					s						
	nnection Sizes											
02	1/4 NPT Male (N/A for ranges over 1400 bar/20,000 psi)											
04	½ NPT Male (N/A for ranges over 1400 bar/20,000 psi) 04											
09	9/16-18 UNF-2B (high pressure fitting, standard for pressures over 1400 bar/20,000 psi)											
15	G ½ B Male (system S only, N/A for ranges over 1000 bar/15,000 psi)											
16	M20x1,5 Male (system S only, N/A for ranges over 1000 bar/15,000 psi)											
Process Co	nnection Location											
L	Lower							L				
В	Back											
Range (cod	ing examples only, see range table o	n page 4 for all standard	l ranges)								
Single Sc	ales											
15#	15 psi											
1BR	1 bar								1BR			
1KG	1 kg/cm ²											
100KP	100 kPa											
Dual Scal	es											
15#/BR	15 psi inner scale / 1 bar outer	scale										
1BR/#	1 bar inner scale / 15 psi outer	scale										
Options (If	choosing an option(s) must include a	ı "X")								X		
Dampenii	ng											
LL	PLUS! ™ Performance									LL		
NZ	PLUS! ™ Performance silicone f	free										
TS	Throttle screw (Standard with	PLUS! ™ Performance)										
Case/Rin	g/Dial											
D3	DuraVis™ Retroreflective Dial (4	1 ½" only)										
		continued a	at pag	је 3								





Mass spectrometer leak test

ORDE	RING CODE	EXAMPLE:	45	1377	S	S	04	L	1BR	XLL
	If choosing an option(s) must inclu	de a "X")								
	vs/Pointers									
PD	Acrylic window									
SG	Safety glass									
NG	Non-glare glass									
EP	Maximum pointer, adjustab	le								
SH	Red set hand, stationary									
Bourdo	n tube system/Movement									
OS	Overload stop									
VS	Underload stop									
TB	Tip Bleed (S tube only, 140									
AB	Gauges calibrated to comp	ensate for absolute press	sure							
PR	Receiver gauge 3-15 psi									
VY	Krytox Lubricated Moveme	nt (Silicone Free)								
Marking	g/Tagging									
DA	Dial marking (Text marking	on the dial)								
NH	Stainless steel tag wired to	case								
Cleanin	g									
6B	Cleaned for oxygen service									
Testing/	/Certificates									
C3	MTR according to EN 1020	4 3.1 (system S and P or	ıly)							
C4	Individual calibration chart	(in accordance with ASM	E B40.	100:2013	. Accura	acy trace	eable to	NIST)		
C7	PED Declaration of conform	, ,								
EAC	EAC Declaration of conform	nity for Eurasian Customs	s Union							
HY	Hydrostatic/pneumatic test (system pressurized to 150	0	ure for	5 minutes	. Overlo	oad stop	STD.)			
MQ	PMI positve material identif	ication certificate								

ML



STA	NDARD PRI	ESSURE RA	NGES		
Ε	psi	bar	kPa	MPa	kg/cm²
Vacuum	30IMV	N1BR	N100KP	N1MP	N1KG
Na.	-	N1/0.6BR	N100/60KP	0.1/0.06MP	N1/0.6KG
	V/15#	_	_	_	-
	-	N1/1.5BR	N100/150KP	N0.1/0.15MP	N1/1.5KG
2	V/30#	_	_	_	-
Compound	_	N1/3BR	N100/300KP	N0.1/0.3MP	N1/3KG
ᇤ	V/60#	_	_	_	-
ర	-	N1/5BR	N100/500KP	N0.1/0.5MP	N1/5KG
	V/100#	_	_	_	-
	-	N1/9BR	N100/900KP	N0.1/0.9MP	N1/9KG
	15#	1BR	100KP	0.1MP	1KG
	20#	_	-	-	-
	-	1.6BR	160KP	0.16MP	1.6KG
	30#	-	-	-	-
	_	2.5BR	250KP	0.25MP	2.5KG
	60#	4BR	400KP	0.4MP	4KG
	-	6BR	600KP	0.6MP	6KG
	100#	-	-	-	-
	120#	_	_	_	_
	_	10BR	1000KP	1MP	10KG
	160#	-	-	-	-
	200#	-	-	-	-
	-	16BR	1600KP	1.6MP	16KG
	300#	-	-	-	-
	-	25BR	2500KP	2.5MP	25KG
a.	400#	-	-	-	-
ess	500#	_	-	_	_
F	600#	40BR	4000KP	4MP	40KG
Positive Pressure	800#	_	-	-	_
Pos	-	60BR	6000KP	6MP	60KG
	1000#	-	-	-	-
	1500#	100BR	10000KP	10MP	100KG
	2000#	160BR	16000KP		160//0
	3000#	IOUDH	TOUUNP	16MP	160KG
	3000#	250BR	25000KP	25MP	250KG
	4000#	230011	230001(1	251011	230114
	5000#	_			
	6000#	400BR	40000KP	40MP	400KG
	8000#	- -	-	- TOIVII	-
	-	600BR	60000KP	60MP	600KG
	10000#	_	-	-	-
	15000#	1000BR	100000KP	100MP	1000KG
	20000#	-	-	-	-
	-	1600BR	-	160MP	1600KG
	30000#	-	-	-	-





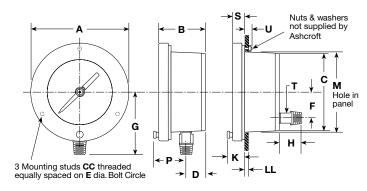
DIMENSIONS IN MM [INCH]

For reference only, consult Ashcroft for specific dimensional drawings

DIAL SIZE INCHES	А	В	С	D	E	F	G	н	K	M	Р	s	т	U	СС	LL	WEIGHT (KG)
4 1/2	152 [6]	73 [2 ½]	121 [4 ¾]	27 [1 ½6]	137 [5 ¾]	41 [1 %]	100 [3 ¹⁵ / ₁₆]	35 [1 ¾]	27 [1 ½6]	124 [4 ¾]	54 [2 ⅓]	16 [%]	16 [%]	19 [¾]	#10-24	313 [½½]	1,13
6	192 [7 % ₁₆]	73 [2 ¾]	121 [4 ¾]	27 [1 ½6]	178 [7]	41 [1 %]	114 [4½]	35 [1 ¾]	27 [1 ½6]	165 [6 ½]	54 [2 ⅓]	16 [%]	16 [⅓]	19 [¾]	1/4-20	313 [½½]	1,13
8 ½	257 [10 1/16]	73 [2 ¾]	121 [4 ¾]	27 [1 ½ ₁₆]	244 [9 %]	41 [1 %]	152 [6]	35 [1 ¾]	27 [1 ½ ₁₆]	229 [9]	54 [2 ⅓]	16 [%]	16 [5/8]	19 [¾]	1/4-20	313 [½½]	2,04

4½" and 6" lower connection

41/2" and 6" back connection



8½" lower connection

8½" back connection

