

COMMERCIAL GAUGES

(Generally ASME B 40.1 Grade B ($\pm 3-2-3\%$ of span), accuracy , review section for exceptions)

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Commercial Pressure Gauge Type 1005, ASME B 40.100 Grade B ($\pm 3-2-3\%$ of span)

- Case material is black-painted steel
- These gauges have a heat-resistant push-in polycarbonate window
- Dial faces match other Ashcroft® commercial gauges for easy readability
- Patented PowerFlex™ movement with polyester segment
- True Zero™ indication, a unique safety feature

Ashcroft® Type 1005 gauges are available in 1½" through 3½" dial sizes. The full-view polycarbonate

push-in window allows for better dial visibility. These gauges are commonly used on compressors, filter regulators, water pumps, beverage-dispensing equipment, paint sprayers and a variety of other applications.

Ashcroft Type 1005 gauges have the patented PowerFlex movement with polyester segment for increased resistance to rough usage, for a more durable, longer-lasting gauge.

True Zero indication reduces the potential risk of installing a damaged gauge on your equipment.

FlutterGuard™ can be added to Type 1005 gauges to eliminate pointer flutter and extend gauge life.



GAUGE SPECIFICATIONS

Type no.:	1005		
Accuracy:	ASME B 40.100 Grade B ($\pm 3-2-3\%$ of span)	Connection:	½ NPT lower, ½ NPT back ¼ NPT lower, ¼ NPT back (1½" available in ½ NPT only)
Size:	1½", 2", 2½", 3½"	Ranges:	1½" vac-1000 psi 2"-3½" vac-6000 psi and compound
Case:	Black-painted steel	Operating temperature:	-40°F to 150°F, -40°C to 65°C
Ring:	None		
Window:	Polycarbonate push-in		
Dial:	Black figures on white background		
Pointer:	Black, aluminum		
Bourdon tube:	"C" shaped bronze (2"-3½" vac-600 psi and compound, 1½" vac-1000 psi) Helical bronze (2"-3½" 1000-6000 psi)	Note:	4½" gauges are available as Type 1000 with black friction- fit ring and plastic window. Refer to Bulletin CG-10
Movement:	Patented PowerFlex with polyester segment		
Socket:	Brass		
Restrictor:	0.013" orifice throttle plug in gauges 1000 psi and above		

GAUGE OPTIONS

	Factory variation code in ()
Case:	Case color other than black Vent hole (VH)
Pointer:	Adjustable (AP)
Socket:	Nickel plated brass (NP) Nonstandard length or thread Throttle plugs, 0.007", 0.013", 0.020", 0.063" orifices Teflon taped threads (TC)
Others:	Bulk packaging (ZO) Customized dials Nonstandard ranges and special calibration on application UL 404 and UL 252A listing for compressed gas service for 2" gauges FlutterGuard (SF) Top or side connection: (02D= right side) (02E= left side) (02T= top connection) Receiver ranges: 3/15 psi, 0/10 square root, 0/100% (PR) Clean for oxygen service

TO ORDER THIS TYPE 1005 GAUGE:

Select:	20	W	1005	H	01L	X(AP)	100#
1. Dial Size: 2"							
2. Patented PowerFlex™ Movement							
3. Case Type Number: 1005							
4. Socket Material: Brass							
5. Connection Size/Location: ½ NPT lower							
6. Option: Adjustable Pointer							
7. Range: 100 psi							

- **Underwriters Laboratory listed and Factory Mutual approved**
- **Corrosion-resistant ABS case**
- **Heat-resistant polycarbonate push-in window**
- **Patented PowerFlex™ movement with polyester segment**
- **True Zero™ indication, a unique safety feature**

Ashcroft® fire protection sprinkler gauges are Underwriters Laboratory listed and Factory Mutual approved for fire protection sprinkler service. The case material on Type 1005P, XUL

gauges is ABS. The 0-300 psi pressure Arange is used on “wet” systems where water is available to the sprinkler heads. The 0-80 retard to 250 psi pressure range is used on dry systems where the lines are filled with air pressure until system activation.

The patented PowerFlex™ movement with polyester segment is designed to provide unequalled shock and vibration resistance resulting in superior performance and extended gauge life.

True Zero™ indication, a standard feature on these gauges, reduces the potential risk of installing a damaged gauge on your equipment.



GAUGE SPECIFICATIONS

- Type no.:** 1005P, XUL
Accuracy: ASME B 40.100 Grade B (±3-2-3% of span)
Size: 3½”
Case: ABS (Polycarbonate blend)
Ring: None
Window: Polycarbonate, push-in
Dial: Black figures on white background
Pointer: Black, aluminum
Bourdon tube: “C” shaped bronze
Movement: Patented PowerFlex with polyester segment
Socket: Brass
Restrictor: None

- Operating temperature:** -40°F to 150°F, -40°C to 65°C
Connection: ¼ NPT lower
Ranges: 0-300 psi (water)
 0-80 retard to 250 psi (air)
 0-600 psi
 UL 393 Listed, UL of Canada Listed and FM approved.



JUST RELEASED!!
 Triple scale dial faces – psi / kPa / bar

GAUGE OPTIONS

- Customized dials
- Other UL listed ranges on application
- Dual or triple scale metric dials

NOTES



TO ORDER THIS TYPE 1005P, XUL GAUGE:

Select: _____ **35** _____ **W** _____ **1005** _____ **P** _____ **H** _____ **02L** _____ **XUL** _____ **300#**

1. Dial Size: 3½” _____
2. Patented PowerFlex™ Movement _____
3. Case Type Number: 1005 _____
4. Case Type Material: ABS _____
5. Socket Material: Brass _____
6. Connection Size/Location: ¼ NPT lower _____
7. UL listed, FM approved _____
8. Range: 300 psi _____

Stainless Steel Case Gauge Type 1008A/AL, 63mm and 100mm ASME B 40.100 Grade B (±3-2-3% of span)

- 63mm (2½") and 100mm (4") case sizes
- Soldered brass socket and bronze tube design
- Corrosion-resistant stainless steel case/ring
- Dry, field-fillable or liquid-filled versions
- Patented PowerFlex™ movement
- True Zero™ indication, a unique safety feature
- Two-year warranty on liquid-filled gauges

Ashcroft® Type 1008A gauges are synonymous with durability, flexibility and exceptional quality. The Type 1008A gauge enclosure is sealed

to provide maximum protection in adverse environmental conditions. Both 63mm and 100mm Type 1008A gauges are available dry, field-fillable, glycerin filled or silicone filled. Accessory kits are available for panel mounting, front flange mounting or retrofit mounting back connection gauges. The patented PowerFlex™ movement provides a higher level of shock, vibration and pulsation resistance than conventional movement gauges.

The True Zero™ feature helps to assure a quality process and reduces manufacturing and inspection costs.

FlutterGuard™ is available for dry gauges to eliminate pointer flutter and extend gauge life.



GAUGE SPECIFICATIONS

Type no.:	1008A/AL	Movement:	Patented PowerFlex with polyester segment
Accuracy:	ASME B 40.100 Grade B (±3-2-3% of span)	Socket:	Brass, with O-ring case seal
Size:	63mm (2½"), 100mm (4")	Restrictor:	Brass throttle plug, 0.013" orifice in all ranges (except vacuum and 15# psi ranges)
Case:	304 stainless steel, dry (1008A), or liquid filled (1008AL) with ventable plug	Connection:	¼ NPT lower and back
Fill Fluid:	Glycerin	Ranges:	Vac. thru 15,000 psi and compound. Equivalent metric ranges available
Ring:	304 stainless steel, crimped	Operating Temperature:	Dry gauge: -40°F to 150°F, -40°C to 65°C Glycerine filled: 20°F to 150°F, -7°C to 65°C
Window:	Polycarbonate		
Dial:	Black figures on white background, aluminum		
Pointer:	Black, aluminum		
Bourdon Tube:	"C" shaped bronze (vac.-600 psi and compound) Helical bronze (1000 psi-6000 psi) Helical stainless steel (10,000 psi-15,000 psi)		

GAUGE OPTIONS

Case:	Sealed case, field-fillable (LJ) Silicone filled (GV)
Mounting Hardware:	U-clamp (UC), front flange (FF), retrofit flange (RF)
Socket:	Throttle plugs, 0.007", 0.020", 0.063"
Connections:	JIS, DIN, metric, SAE and other connections on application
Others:	Customized dials Nonstandard ranges FlutterGuard (SF) Special calibration on application Clean for oxygen service – dry gauges only

TO ORDER THIS TYPE 1008A/AL GAUGE:

Select:	63	1008	A	L	02B	XUC	1000#
1. Dial Size: 63mm or 100mm _____							
2. Case Type: 1008 _____							
3. Socket Material: Brass _____							
4. Liquid Filled (Glycerin), leave blank if dry _____							
5. Connection Size: ¼ NPT _____							
6. Connection Location: Lower (L), Back (B) _____							
7. Optional Features: XUC = Panel Mounting Kit _____							
8. Range: 1000 psi _____							

4½" Gauges

Type 1000, ASME B 40.100 Grade B (±3-2-3% of span)

Type 2071A, ASME B 40.100 Grade A (±2-1-2% of span)

- *Type 2071A contractor gauge offers aluminum-back flange case (black), with attractive chrome-plated steel ring*
- *Type 1000 gauge offers black steel case with black ring and acrylic window*
- *Adjustable pointer is standard on contractor gauges*
- *Patented PowerFlex™ movement with polyester segment*
- *True Zero™ indication, a unique safety feature*

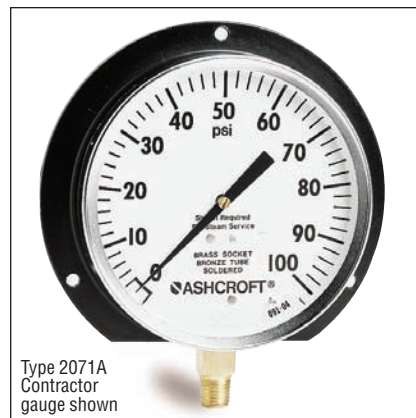
Ashcroft® Type 1000 gauges have a black steel case and ring with a plastic window. These gauges are appropriate for general industrial applications and can be customized to complement your equipment.

Ashcroft contractor gauges (Type 2071A) are lightweight, highly sensitive and accurate. These gauges are designed to meet the needs of HVAC and plumbing contractors, and are tested against strict industry specifications. The aluminum case provides corrosion resistance.

The patented PowerFlex™ movement, in both Types 1000 and 2071A, provides the shock resistance needed for rough treatment.

True Zero™ indication reduces the potential risk of installing a damaged gauge on your equipment.

FlutterGuard™ is available to eliminate pointer flutter and extend gauge life.



Type 2071A Contractor gauge shown

GAUGE SPECIFICATIONS

Size:

Accuracy:

Case:

Ring:

Window:

Dial:

Pointer:

Bourdon tube:

Movement:

Socket:

Connection:

Ranges:

Operating temperature:

Options:

TYPE 1000

4½"

ASME B 40.100, Grade B (±3-2-3% of span)

Black-painted steel

Black-painted steel, friction fit

Plastic

Black figures on white background

Black, aluminum

Bronze, soldered

Patented PowerFlex with polyester segment

Brass

¼ NPT lower

Vacuum through 600 psi and compound

–40°F to 150°F, –40°C to 65°C

Case color other than black

Glass window (XRG)

Chrome ring (13)

FlutterGuard (SF)

Adjustable pointer (AP)

Nickel-plated socket (NP)

Customized dials

Throttle plugs: 0.007", 0.013", 0.020",

0.063" orifices

Special calibration on application

TYPE 2071A

4½"

ASME B 40.100, Grade A (±2-1-2% of span)

Aluminum with back flange, painted black.

Chrome-plated steel, friction fit

Glass

Black figures on white background

Adjustable, black, aluminum

Bronze, soldered (siphon required for steam service)

Patented PowerFlex with polyester segment

Brass

¼ NPT lower

Vacuum through 600 psi and compound

–40°F to 150°F, –40°C to 65°C

Case color other than black

Plastic window (PD)

Nickel-plated socket (NP)

FlutterGuard (SF)

Black steel ring

Customized dials

Throttle plugs: 0.007", 0.013", 0.020", 0.063" orifices

Special calibration on application

TO ORDER THIS TYPE 1000/2071A GAUGE:

Select:

1. Dial Size: 4½" _____ **45** _____ **W** _____ **2071A** _____ **02L** _____ **300#**
2. Patented PowerFlex™ Movement _____
3. Case Type Number: 2071A _____
4. Connection Size/Location: ¼ NPT lower _____
5. Range: 300 psi _____

- **Standard dials offer four refrigerant scales (R12, R22, R502, 134A)**
- **FlutterGuard™ eliminates pointer flutter**
- **Patented PowerFlex™ movement with polyester segment**

Ashcroft® Types 1001T, XOR and 1007P, XOR are designed to meet the unique requirements of the HVAC, automotive and refrigeration industries.

Ashcroft Type 1001T, XOR gauges are designed for refrigerant recovery and recycling units. All gauges for

this service are tested for leaks as small as 2.8×10^{-4} cc per second to ensure superior integrity. Optional connections eliminate potential leaks at threaded joints and also eliminate customer cost for extra fittings.

Ashcroft Type 1007P, XOR gauges are designed for installation on refrigeration manifolds used in testing automotive, industrial and residential air-conditioning units. The ABS case offers rugged durability and corrosion resistance.

FlutterGuard™, a standard feature in these gauges, eliminates pointer flutter and extends gauge life.



1007P, XOR gauge shown

GAUGE SPECIFICATIONS

	TYPE 1001T, XOR	TYPE 1007P, XOR
Size:	2½", 3½"	2½"
Accuracy:	1% at zero, 2% three fourths of scale, 5% last fourth of scale	1% at zero, 2% three fourths of scale, 5% last fourth of scale
Case:	Black steel with studs and U-clamp for panel mounting	Red ABS - high pressure Blue ABS - low pressure
Ring:	None	None
Window:	¼ turn polycarbonate, threaded	Polycarbonate, threaded
Dial:	Refrigerant scales R12, R22, R502, R134A, 410A	Refrigerant scales R12, R22, R502, R134A, 410A
Pointer:	Black, aluminum	Black, aluminum
Bourdon tube:	Bronze	Bronze
Movement:	Patented PowerFlex with polyester segment and FlutterGuard; slotted span screw for minor span adjustments	Patented PowerFlex with polyester segment and FlutterGuard; slotted span screw for minor span adjustments
Socket:	Brass	Brass
Restrictor:	0.013" orifice throttle plug	0.020" orifice throttle plug
Connection:	½ NPT back, ¼ NPT back	½ NPT lower
Ranges:	30 in.Hg vac./0/120 psi retard to 250 psi; 0-500 psi; 30 in.Hg vac./0/350 psi retard to 500 psi; 0-800 psi	30 in.Hg vac./0/120 psi retard to 250 psi; 0-500 psi; 30 in.Hg vac./0/350 psi retard to 500 psi; 0-800 psi
Operating temp.:	-40°F to 150°F, -40°C to 65°C	-40°F to 150°F, -40°C to 65°C
Options:	Nonstandard ranges Alternate refrigerant ranges SAE Flare, solder bib and ferrule connections, Customized dials	Nonstandard ranges Alternate refrigerant ranges Case color Customized dials

TO ORDER THIS TYPE 1001T, XOR / 1007P, XOR GAUGE:

Select: _____ 25 W 1007 P H 01L X(OR) 140#/V

- Dial Size: 2½" _____
- Patented PowerFlex™ Movement _____
- Case Type Number: 1007 _____
- Case material: ABS _____
- Socket Material: Brass _____
- Connection Size/Location: ½ NPT lower _____
- Refrigeration Application _____
- Range: 30" Hg vac./0/120 psi retard to 250 psi _____

- **Compact size – 23mm (.906") diameter**
- **ABS case with acrylic window ultrasonically welded to case**
- **Wrench flats on socket for easy installation**
- **Available in 60-300 psi**
- **Direct Drive technology for excellent shock resistance**

The Ashcroft® MiniGauge® pressure gauge is designed for those applications where space is a limiting factor. Taking into consideration the small size of the MiniGauge

(23mm), the dial face was designed for maximum readability. This product is offered in 1/8 NPT back connection with 15mm (9/16") wrench flats for easy installation.

The versatile Ashcroft MiniGauge surpasses the demands of durability in two important ways: first, by using direct-drive reading, the spiral tube transmits motion directly to the pointer – no gears or movement parts to wear out; and second, the case material is an ABS blend that is both enduring and attractive.

The Ashcroft MiniGauge is perfect for a multitude of applications where a 1 1/2" conventional size gauge is too large.



GAUGE SPECIFICATIONS

Type no.:	23DDG
Accuracy:	±5% of span
Size:	23mm (.906")
Case:	Black ABS blend
Ring:	None
Window:	Polycarbonate, ultrasonically welded to case
Dial:	Black figures on white background, aluminum
Pointer:	Brass, painted black
Bourdon tube:	Beryllium copper, spiral; soft soldered to socket
Movement:	None (direct-drive reading)
Socket:	Brass with 15mm (9/16") wrench flats
Connection:	1/8 NPT back

Ranges:	Range (psi)	Dial Arc	
		180°	235°
	0/60	*	
	0/100	*	
	0/160		*
	0/200		*
	0/300	*	

Repeatability: Better than 1%

Operating

temperature: -40°F to 150°F, -40°C to 65°C

Packaging: Bulk pack; individually sealed 2 mil polybags

Note: Consult factory for high cycle-life applications

GAUGE OPTIONS

Socket:	Throttle plugs; 10/32" threads; PT 1/8 (JIS) and R 1/8 (BSPT) threads
Dial:	Customized
Dampening:	Silicone-dampened coil for vibration applications

TO ORDER THIS TYPE 23DDG GAUGE:

Select:	23	DDG	01B	60#
1. Gauge Size: 23mm (.906" or 29/32") _____				
2. Case Type: Direct Drive Gauge _____				
3. Connection Size/Location: 1/8 NPT back _____				
4. Range: 0/60 psi _____				

Direct Drive Gauge Type 12DDG, 15DDG Accuracy ($\pm 2\%$ at setpoint)

- Sealed stainless steel case provides a weatherproof, dustproof corrosion-resistant gauge
- Spiral tube transmits motion directly to the pointer—no gears or bearings to wear out
- High impact-resistant polycarbonate window
- UL 404 listed for compressed gas (including oxygen) for 1500 psi, 2000 psi, 3000 psi and 4000 psi

Ashcroft® DDG, direct drive gauges are constructed for strenuous use under severe environmental conditions and can withstand excessive levels of shock and vibration—an excellent choice for outdoor applications. Optional features to enhance the performance of these gauges are silicone-damped tubes for excessive vibration applications and silicone-filled tubes for corrosion protection.



GAUGE SPECIFICATIONS

Type no.:	12DDG, 15DDG
Accuracy:	Standard $\pm 2\%$ at setpoint (setpoint is normally 50% of range; other setpoints upon application). UL listed -3.5% of span in middle three-fifths of scale.
Size:	1¼" - 12DDG 1½" - 15DDG
Case:	Stainless steel, sealed
Ring:	None
Window:	High impact-resistant polycarbonate
Dial:	Black figures on white background
Pointer:	Black, integral with bourdon tube
Bourdon tube:	Beryllium copper, spiral; soft soldered to socket
Movement:	None (direct reading)
Socket:	Brass

Available Ranges (psi)	Dial Arc			
	165°	180°	200°	235°
0/60		•		
0/100*				•
0/160				•
0/200				•
0/300				•
0/700			•	
0/1200		•		
0/1500	•			
0/2000	•			
0/3000	•			
0/4000	•			

*12DDG available in 180° arc.

Restrictor: Safety plug-in 1500-4000 psi ranges

Connection: ½ NPT back, standard

Repeatability: Better than 1%

Operating temperature: -40°F to 150°F , -40°C to 65°C

Note: Consult factory for high cycle-life applications

GAUGE OPTIONS

Socket: ¼ NPT; throttle plugs, 0.007", 0.013", 0.020", 0.063" orifice

Others: Customized dials
Metric and dual ranges available
Silicone-damped spiral tube for vibration service
Silicone-filled spiral tube for corrosion protection
UL listed for compressed gas (including oxygen); 1500 psi, 2000 psi, 3000 psi, 4000 psi

TO ORDER THIS TYPE DDG GAUGE:

Select:	15	DDG	01B	100#
1. Dial Size: 1½"	_____	_____	_____	_____
2. Case Type: DDG	_____	_____	_____	_____
3. Connection Size/Location: ½ NPT back = 01B	_____	_____	_____	_____
4. Range: 100 psi	_____	_____	_____	_____

