

## Type 1038 Duplex Gauge



### FEATURES

- 4½" dial size
- Bronze Bourdon tube and brass sockets
- Two independent systems and movements
- Non-adjustable red and black pointers

The Ashcroft® Type 1038 duplex gauge is used to display two separate input pressures on the same gauge for comparison purposes.

### TEMPERATURE LIMITS

	Ambient	Process	Storage
Dry	-20/200°F (-29/93°C)	-20/250°F (-29/121°C)	-40/250°F (-40/121°C)

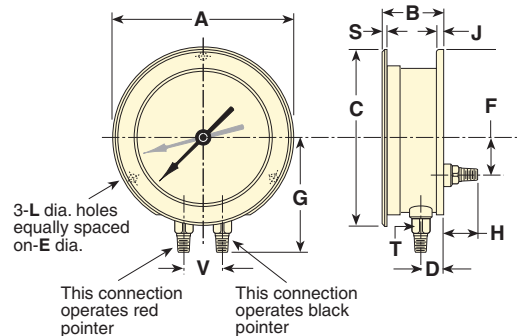
**Note:** Other than discoloration of the dial and hardening of the gasketing that may occur as ambient or process temperatures exceeds 150°F, non-liquid-filled gauges with standard glass windows, can withstand continuous operating temperatures up to 250°F (121°C). Accuracy at temperatures above or below the reference ambient temperature of 68°F (20°C) will be affected by approximately .4% per 25°F. Gauges with silver brazed joints will withstand 450°F (232°C). Ranges less than 100 psi have soft soldered joints and can withstand 250°F (121°C) 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 250°F (121°C), a diaphragm seal or capillary or siphon is recommended.

### PRODUCT SPECIFICATIONS

<b>Model Number:</b>	1038
<b>Accuracy:</b>	2%-1%-2% ASME Grade A
<b>Case Style:</b>	Open Front (dry only)
<b>Case Material:</b>	Aluminum 4½" Black Epoxy Coated
<b>Dial Size:</b>	4½" (45)
<b>Dial Material &amp; Color:</b>	Brushed Aluminum with Black Markings
<b>Ring Type:</b>	Aluminum, Threaded, Black Epoxy Coated
<b>Bourdon Tube Material:</b>	Grade A Phosphor Bronze (A) <sup>(1)</sup>
<b>Socket Material:</b>	Brass <sup>(1)</sup>
<b>Connection Size:</b>	¼ (02) NPT
<b>Connection Location:</b>	Lower (L) or Back (B)
<b>Range Limits:</b>	30-1000 psi
<b>Mounting:</b>	Stem, Surface
<b>Movement:</b>	Bronze
<b>Pointer:</b>	Non-Adjustable Black & Red
<b>Window:</b>	Glass
<b>Warranty:</b>	1 Year

<sup>(1)</sup> Joints: Below 100 psi, soldered. Above 100 psi, silver brazed

### DIMENSIONS



Dial Size Inches	A	B	C	D	E	F	G	H	J	L	V	Wght (lbs)
4½	5¼/16 (148)	2¼ (57)	5/8 (149)	27/32 (22)	5/8 (137)	1¼/16 (27)	325/32 (96)	117/32 (39)	¾ (10)	7/32 (6)	1½ (38)	2.4 1.0 kg

### 45 1038 PRODUCT CODING

Typical Code:

45	1038	A	02	B	100#	
SIZE	TYPE NUMBER	SYSTEM (Tube & Socket)	CASE DESIGN	PROCESS CONN. SIZE	CONNECTION LOCATION	RANGE (psi)-----
(45) 4½	1038	Code Tube Socket (A) Phos Brz Brass	Description Open Front	Code NPT (02) ¼ Male	Code Description (L) Lower (B) Back	30 60 100 160 200 300 400 600 800 1000

## Type 1038 Duplex Gauge

STANDARD RANGES				
psi	Figure Interval		Minor Grad.	
<b>Pressure</b>				
0/30	5		0.5	
0/60	5		1	
0/100	10		1	
0/160	20		2	
0/200	20		2	
0/300	30		5	
0/600	50		10	
0/800	100		10	
0/1000	100		10	
Range	Figure Interval		Minor Grad.	
	Inches Mercury	psi	Inches Mercury	psi
<b>Compound</b>				
30 in.Hg/15 psi	5	3	1	0.5
30 in.Hg/30 psi	10	5	1	0.5
30 in.Hg/60 psi	10	10	1	1
30 in.Hg/100 psi	10	10	1	1
30 in.Hg/150 psi	10	20	2	2
30 in.Hg/300 psi	30	25	5	5

STANDARD METRIC RANGES								
TYPE	RANGE		DIAL GRADUATIONS		RANGE kPa (kilopascal)	DIAL GRADUATIONS		Outer Scale When Dual Range Specified/psi
	kg/cm <sup>2</sup>	Bar	Figure Interval	Minor Graduation		Figure Interval	Minor Graduation	
1038A	<b>Pressure</b>							
	0/2.5	0/2.5	0.5	0.05	0/250	50	5	0/35
	0/4	0/4	0.5	0.05	0/400	50	5	0/55
	0/6	0/6	0.5	0.05	0/400	50	5	0/85
	0/10	0/10	1	0.1	0/1000	100	10	0/140
	0/16	0/16	2	0.2	0/1600	200	20	0/220
	0/25	0/25	5	0.5	0/2500	500	50	0/350
	0/40	0/40	5	0.5	0/4000	500	50	0/550
	0/60	0/60	5	1	0/6000	500	100	0/850
	<b>Compound</b>							
	-1/1.5	-1/0/1.5	0.5	0.05	-100/150	50	5	30"Hg/20
	-1/3	-1/0/3	0.5	0.05	-100/300	50	5	30"Hg/40
	-1/5	-1/0/5	0.5	0.1	-100/500	50	10	30"Hg/70
	-1/9	-1/0/9	1	0.1	-100/900	100	10	30"Hg/125
	-1/15	-1/0/15	1	0.1	-100/1500	200	20	30"Hg/215
	-1/24	-1/0/24	2	0.2	-100/2400	500	20	30"Hg/340