

Type 1038 Duplex Gauge



FEATURES

- Available in 3 1/2" and 4 1/2" dial sizes
- 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)

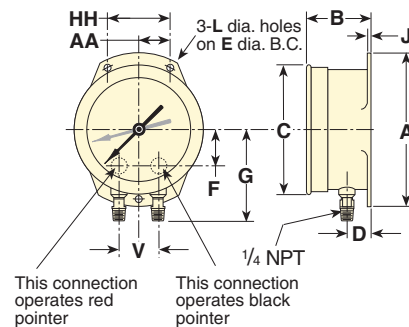
Note: Other than discoloration of the dial and hardening of the gasketing that may occur as ambient or process temperatures exceeds 150°F, non-liquid-filled gauges with standard glass windows, can withstand continuous operating temperatures up to 250°F (121°C). Accuracy at temperatures above or below 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

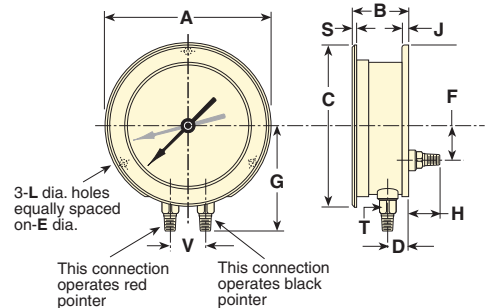
Model Number:	1038
Accuracy:	2%-1%-2% ASME Grade A
Case Style:	Open Front (dry only)
Case Material:	Cast Iron 3 1/2", Aluminum 4 1/2" Black Epoxy Coated
Dial Size:	3 1/2" (35), 4 1/2" (45)
Dial Material & Color:	Brushed Aluminum with Black Markings
Ring Type:	Aluminum, Threaded, Black Epoxy Coated
Bourdon Tube Material:	Grade A Phosphor Bronze (A) ⁽¹⁾
Socket Material:	Brass ⁽¹⁾
Connection Size:	1/4 (02) NPT
Connection Location:	Lower (L) (3 1/2" only) or Back (B)
Range Limits:	30-1000 psi
Mounting:	Stem, Surface
Movement:	Bronze
Pointer:	Non-Adjustable Black & Red
Window:	Glass
Warranty:	1 Year

⁽¹⁾ Joints: Below 100 psi, soldered. Above 100 psi, silver brazed

DIMENSIONS



Type 1038 - 3 1/2" Gauge



Type 1038 - 4 1/2" Gauge

Dial Size Inches	A	B	C	D	E	F	G	H	I	J	L	V	AA	HH	Wgt (lbs)
3 1/2	4 3/4 (121)	1 15/16 (49)	3 15/16 (100)	2 3/32 (18)	4 1/4 (108)	—	2 25/32 (71)	—	—	1/8 (3)	9/32 (7)	1 3/16 (30)	1 (25)	2 (51)	1.5 .7 kg
4 1/2	5 13/16 (148)	2 1/4 (57)	5 7/8 (149)	2 7/32 (22)	5 3/8 (137)	1 1/16 (27)	3 25/32 (96)	1 17/32 (39)	1 9/32 (15)	3/8 (10)	7/32 (6)	1 1/2 (38)	—	—	2.4 1.0 kg

35/45 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)
(35)	3½	1038	Code	Tube	Socket	Description Open Front	Code	NPT	Code	Description	30
(45)	4½		(A)	Phos Brz	Brass		(02)	¼ Male	(L)	Lower	60
									(B)	Back	100
											160
											200
											300
											400
											600
											800
										1000	

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STANDARD METRIC RANGES								
TYPE	RANGE		DIAL GRADUATIONS		RANGE	DIAL GRADUATIONS		Outer Scale When Dual Range Specified/psi
	kg/cm ²	Bar	Figure Interval	Minor Graduation	kPa (kilopascal)	Figure Interval	Minor Graduation	
1038A	Pressure							
	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
	Compound							
	-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

STANDARD RANGES				
psi	Figure Interval		Minor Grad.	
Pressure				
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
Compound				
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