





QF-Series

MGOBLET

High Temperature Strain Gauges

GENERAL USE



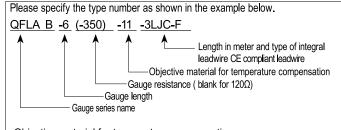
These are CE marked strain gauges (compliant to RoHS2 Directive) for high temperature use. They have joined to our well proven QF-series strain gauges with a new series name "GOBLET". These are foil strain gauges utilizing polyimide resin as the backing material. Measurement in high temperature is easily possible by using our roomtemperature- curing adhesive NP-50 for bonding.

Operating temperature range
-30 ~ + 200°C
Temperature compensation range
+ 10 ~ + 100°C

Applicable adhesives

NP-50 - 30 ~ + 200°C C-1/EB-2 - 30 ~ + 200°C

100°C CN - 30 ~ + 120°C

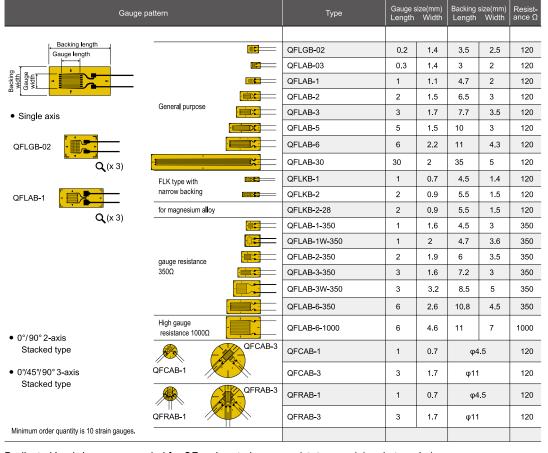


Objective material for temperature compensation (coefficient of linear thermal expansion $\times 10^{-6}$ /°C)

-11: Mild steel -17:Stainless steel -23:Aluminium -28:Magnesium ____

Note: The backing color of QF series gauges are the same for every material for temperature compensation.





Dedicated leadwire recommended for QF series strain gauges (GOBLET) (made to order)

We supply various leadwires dedicated to strain gauges so as to meet our customers' requirements. Please refer to page 32 to 40 for the details of combination of a strain gauge and a leadwire. For CE marked GOBLET series strain gauges, only the leadwires using lead-free solder are available.

Type and designation of leadwires

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Usage	Leadwire name	Operating temperature range of leadwire (°C)	Type number example								
General purpose (without temperature change)	Parallel vinyl leadwire LJC-F	-20~+80	QFLAB-1-11-3LJC-F								
General purpose	3-wire parallel vinyl leadwire LJCT-F	-20~+80	QFLAB-1-11-3LJCT-F								
High temperature	3-wire twisted FEP leadwire 6FA □ LT-F 3-wire twisted FEP single-core leadwire 6FB □ LT-F	-269~+200	QFLAB-1-11 <mark>-6FA3LT-F</mark> QFLAB-1-11- <mark>6FB3LT-F</mark>								

NB:

shows the lead wire length in meter





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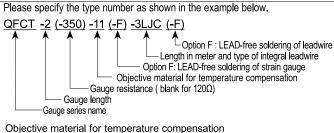
These are foil strain gauges having a polyimide resin backing, which exhibits excellent performance in high temperature up to 200°C. Stress concentration measurement gauges and shear stress measurement gauges are also available in this series. Integral leadwires using lead-free solder are available with option -F.

Operating temperature range -20 ~ + 200°C Temperature compensation range

Applicable adhesives

NP-50 - 20 ~ + 200°C

C-1/EB-2 - 20 ~ + 200°C - 20 ~ + 120°C

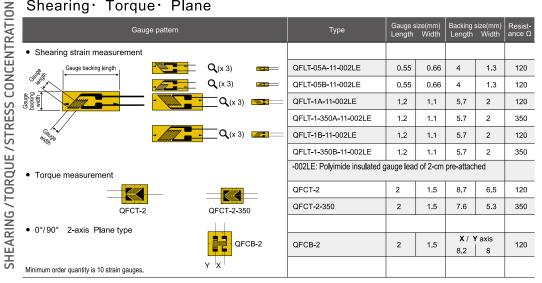


(coefficient of linear thermal expansion ×10-6/°C)

-11: Mild steel -17:Stainless steel -23:Aluminium -28:Magnesium

Note: The backing color of QF series gauges are the same for every material for temperature compensation.

Shearing · Torque · Plane



Stress Concentration Masurement

	Gauge pattern			Туре	Gauge size(mm) Length Width		Backing size(mm) Length Width		Resist- ance Ω	
5-element Single-axis										
Gauge pitch X-axis magnified	Y	Y-axis magnified								
	- ششششش -		Gauge pitch 2mm	QFXV-1-11-002LE	1	1.3	5	12	120	
	 			QFYV-1-11-002LE	1	1.4	5	12	120	
QFXV-1	QFYV-1			-002LE: Polyimide insulated gauge lead of 2-cm pre-attached						
X-axis magnified	Y	Y-axis magnified								
			Gauge pitch	QFBXV-04-11-005LE	0.4	1.3	5.4	7.4	120	
				QFBYV-06-11-005LE	0.6	0.8	5.3	7	120	
QFBXV-04	QFBYV-06			-005LE: Polyimide insulated gauge lead of 5-cm pre-attached						
Single axis										
Single element cut away from the above Stress Concentration gauge			QFBX-04-11-005LE	0.4	1.3	5.4	1	120		
			Single axis	QFBY-06-11-005LE	0.6	0.8	5.3	1	120	
QFBX-04 Q (×3)	QFBY-06 Q(×	:3)		QFLX-1-11-002LE	1	1.3	5	2	120	
Minimum order quantity is 10 strain gauges.			-005LE: Polyimide insulated gauge lead of 5-cm pre-attached -002LE: Polyimide insulated gauge lead of 2-cm pre-attached							

Page 2/2

The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.