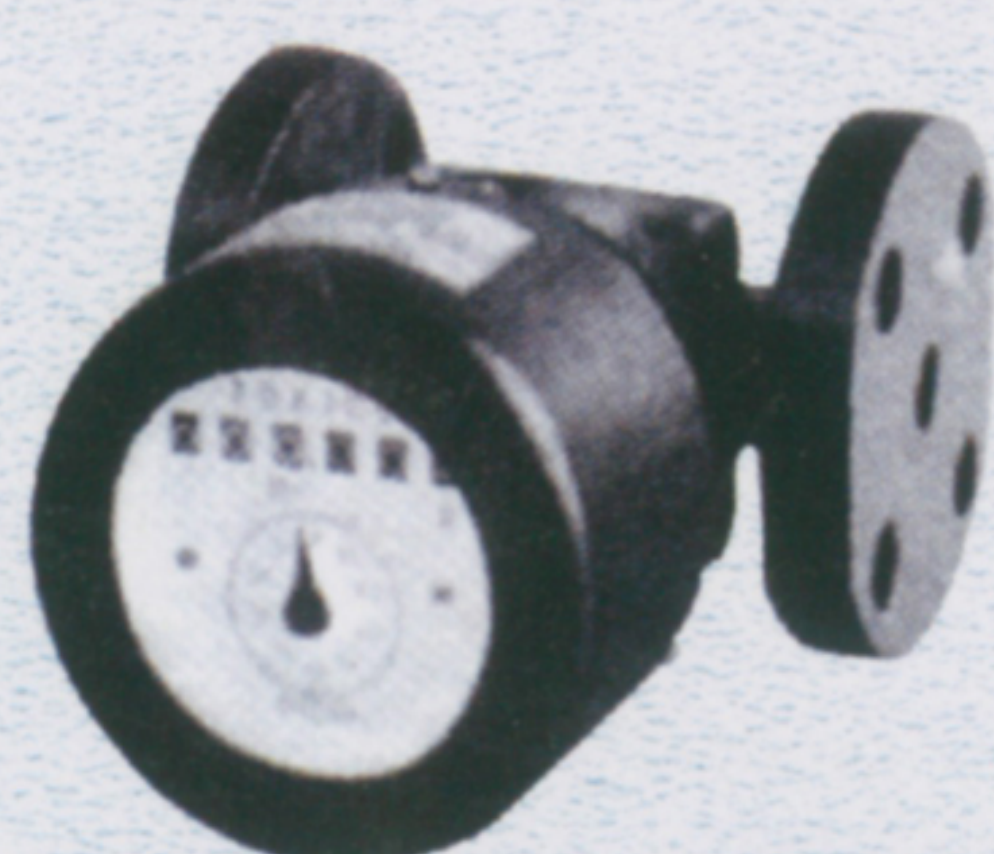




FRO Type(04X)



FGB Type(00X)



FGB Type(04X)

ROOTS AND CCG OIL FLOWMETERS

Tokico oil flowmeters are positive displacement type flow meter which are used in a wide variety of applications including measuring of boiler fuel oil and diesel oil, as well as for transactions for kerosene, light oil and heavy oil. Three types namely FGB type(gear type), FRO type (Roots type) and FRP(roots type) are available to provide optimum performance in accordance with the particular application.

Accuracy	±0.5%	
Flow range	Refer to specification below	
Max. working pressure	10kgf/cm ²	
Hydraulic test pressure	20kgf/cm ²	
Max. working temperature	50°C for kerosene and light oil 100°C for heavy oil(120°C with the FGB-00x and FGB-02X types)	
Flange rating	JIS 10kgf/cm ² FF	
Material	Body	FGB type : Bore 15mm-FC250(Cast iron),Bore 20mm, 25mm-FCD400(Ductile iron)
	Rotor	FGB type: Resin FRO type: Aluminium alloy casting
Counter unit	Integrating pointer and integrating counter(a reset counter is also available)	
Electrical	Transmitter	FGB type: Reed switch (S), FRO type: Microswitch(M)
	Power supply	AC100v, 50/60HZ as standard
Transmitter	Number of pulse	0-5 PPS
Unit	Output signal	ON-OFF contact
	Transmission cable	2-wire cable with cabtype
Flow direction	Right — left	
Paint color	Munsell 1.4 PB3.1/2.1	

Specifications for each type

Model	Bore (mm)	Direct-reading integrating type	Model No		Conditions	Flow range(l/h) (Accuracy: ±0.5%)			
			Direct-reading integrating type with reset counter	Direct-reading integrating type with transmitter		Fluid Viscosity	Kerosene, Light oil	A heavy oil	B, C heavy oil
FGB type	15	FGBB423BAL-00X	FGBB423BAL-04X	FGBB423BAL-02S	Normal operation		1.2-3cP	10cP-	50-300cP
	20	FGBB631BDL-00X	FGBB631BDL-04X	FGBB631BDL-02S			10-200	5-200	-
	25	FGBB835BDL-00X	FGBB835BDL-04X	FGBB835BDL-02S			40-1.250	20-1.250	10-1.250
FRO type	40	FR00438-02X (RO11AB-1-A4)	FR00438-04X (RO11AB-2-A4)	FR00438-02M (RO11AB-1L-A4)	Normal operation	Intermittent Continuous Max	800-6.000	100-7.000	50-7.000
							800-4.500	100-6.000	50-6.000
							7.000	8.000	8.000
	50	FR00541-02X (RO12-1-A4)	FR00541-04X (RO12-2-A4)	FR00541-02M (RO12-1L-A4)	Normal operation	Intermittent Continuous Max	1.500-13.000	250-15.000	100-15.000
							1.500-9.000	250-13.000	100-13.000
							15.000	17.000	17.000
FRP type	80	NA	FRP0845BAA -04X2-X	NA	Normal operation	Intermittent Continuous Max	3.500-35.000	600-40.000	300-40.000
							3.500-25.000	600-35.000	300-35.000
	100	NA	FRP1051BAA -04X2-X	NA	Normal operation	Intermittent Continuous Max	12000-85000	4000-120000	2000-120000
							12000-120000	4000-130000	2000-130000
							130000	140000	140000