



Department of consumer and corporate affairs / Ministère de la consommation et des corporations

STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL

G-64-5

OTTAWA April 19, 1973.

Canadian Meter Company Series GT
Gas Turbine Meters With Flow Guide Diffusers

This approval supplements Circulars G-64-1, G-64-2 and G-64-3.

Apparatus

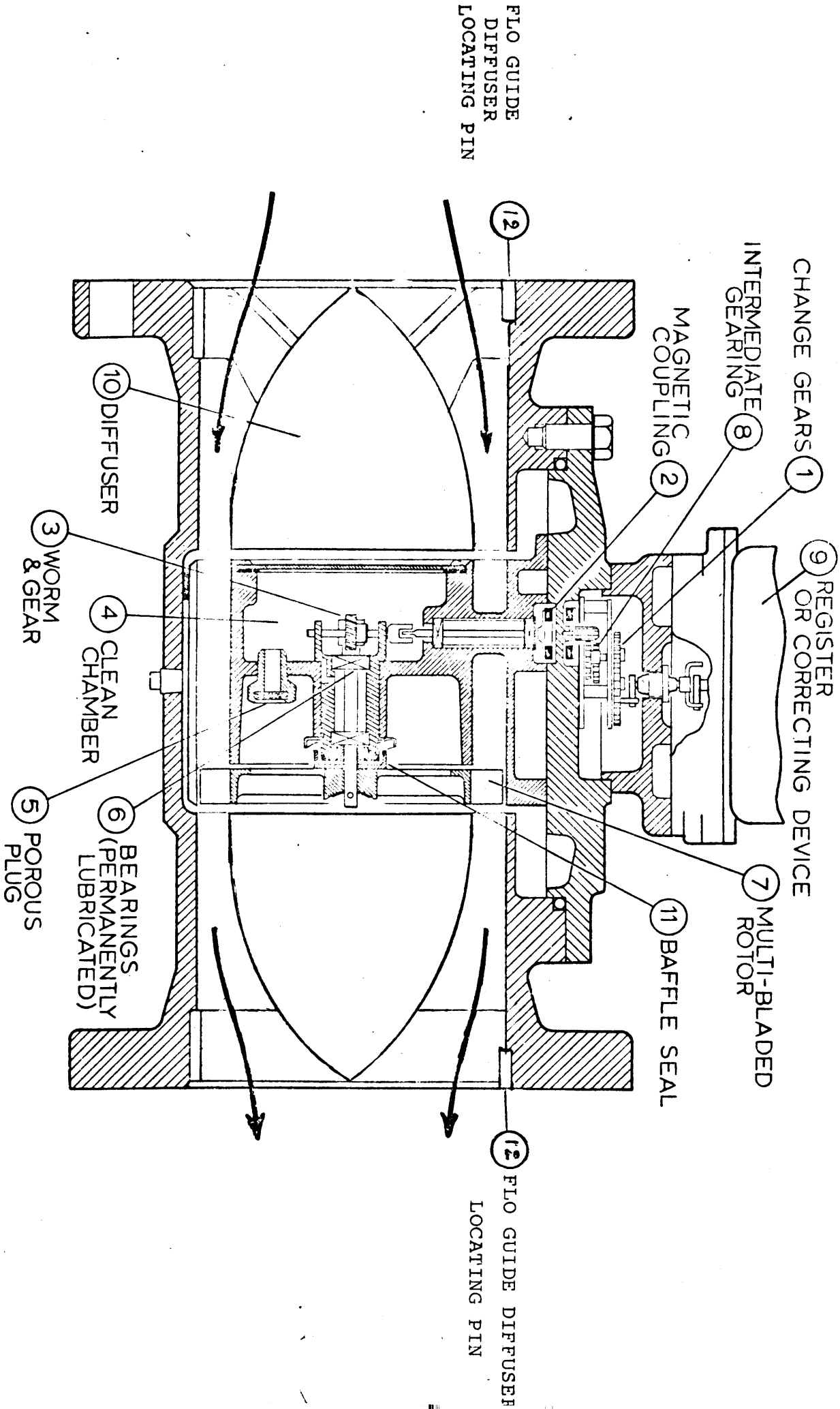
	<u>Models</u>		
	GT-F-4	GT-F-6	GT-F-8
Rated capacity, cu. ft. per hr. at line conditions	16,000	30,000	60,000
Capacity per revolution of meter output shaft, cu. ft.	100	100	1,000
Maximum approved working pressure, psi.	125	125	125
Meter connections, flange	4"	6"	8"

Description

Except for the modification described, the details of the meters as outlined in G-64-3 still apply. Also, interchangeability of modules as approved under G-64-1 is permitted as well for meters having the listed modification.

In order to distinguish meter types fitted with the Flow Guide Diffuser, the type designation has been modified to include the letter F, thus GT-F-4, GT-F-6 and GT-F-8.

The essential difference between these meters and the previously approved meters of the GT series is in the flow diffuser. The Flo Guide Diffuser is a glass filled

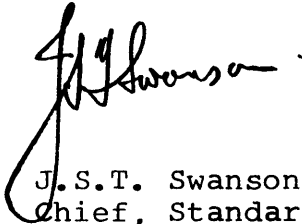


acetal material accurately shaped to facilitate the fluid flow through the turbine. The diffuser is more pointed in the new design. Locating pins with matching slots in the housing fix the diffuser in the desired position. The drawing shows details of the new assembly.

The purpose of the Flo Guide Diffuser is to eliminate the need for straightening vanes and straight upstream piping. This approval permits the use of these meters without upstream restricting requirements, however, as is the case with any fluid measurement, disturbances upstream of the meter should always be kept to a minimum.

Approval granted to:

Canadian Meter Company,
Milton, Ontario and
Edmonton, Alberta



J.S.T. Swanson, P. Eng.,
Chief, Standards Laboratory,
Standards Branch



W.J.S. Fraser
Chief, Electricity & Gas Div.,
Standards Branch

Ref: GL 1147-57/C6-112

