

NEW GENERATION

POSITIVE DISPLACEMENT FLOW METERS



VEDCO INDUSTRIAL SYSTEMS

New Design Technology Leads
To Superior Meter

Overview

Positive Displacement Oval gear, Spur gear, Rotary Vane, BiRotor & Helical geared metering principals are well established and continue to be the strongest force behind accurate flow metering today. Oval & Spur geared meters are relatively inexpensive when compared to the more expensive and more accurate Rotary Vane, BiRotor & Helical geared meters.

Introduction

With the new Vedco Industrial Systems Principal Prometer have identified an opportunity to create a new market layer which sits squarely between the above two distinct categories in terms of price but the Vedco challenges the more expensive technologies in terms of overall performance, accuracy (+/-0.15%), repeatability (+/-0.01%) and low pressure drop (reduced by 1/3rd) are three characteristics which stand out, low noise generation (75db max.) is another bonus benefit to the end user.

Vedco Industrial Systems inside story reveals a robust positive displacement "three lobe geared" flowmeter incorporating innovations & features that bring these extended benefits to market.

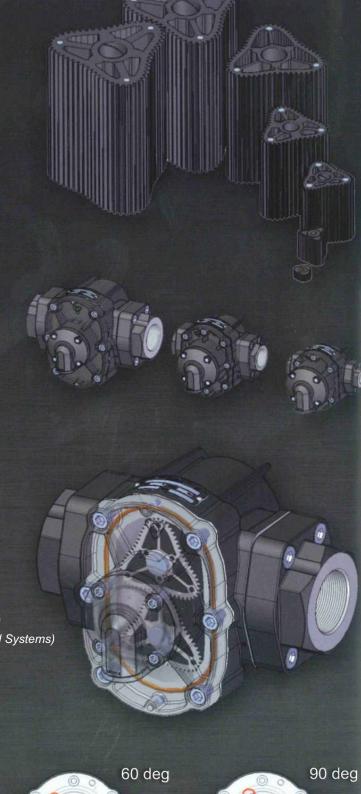
Summary

Prometer innovative Vedco Industrial Systems flowmeters are the very latest new development in the competitive arena of positive displacement flowmeters which till now has remained unchanged for many decades.

The Vedco Industrial Systems totally out performs its competitors when it comes to the accurate metering of most clean liquids including fuels, oils, additives, chemicals, food bases, paints, viscous emulsions, insecticides, alcohols & solvents either pumped or gravity fed.

Checklist

- Very latest innovation for many decades (patents pending)
- Custody transfer accuracy & linearity standard (+/-0.15%)
- Wide turndown (less slippage, 54% more sealing characteristic)
- Smoother & quieter less vibration (balanced Vedco Industrial Systems)
- . High resolution quadrature pulse output
- Dual outputs (reed & hall effect) standard
- . No requirement for flow conditioning
- Bi-directional flow capacity

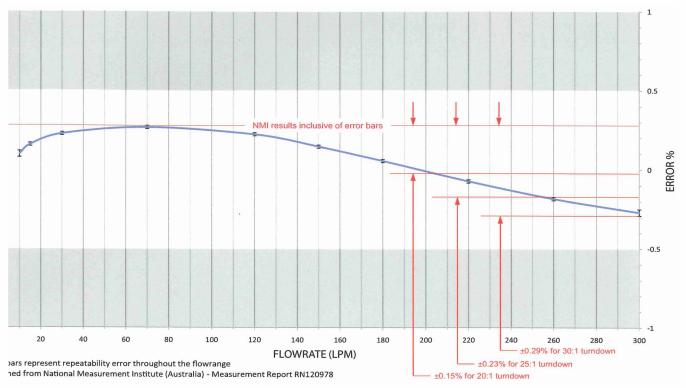




Vedco Industrial Systems Labyrinth Seal Points at chamber walls provide 54% more dynamic sealing than Oval Gears.

Performance & Specifications





Model prefix :	TG004	TG008	TG015	TG025	TG040	TG050			
Capacity group :	small c								
		A STATE OF THE PARTY OF THE PAR	medium capacity						
ches)	4mm (1/8")	8mm (3/8")	15mm (1/2")	25mm (1")	40mm (1.5")	50mm (2")			
PH) litres/min	(0.5~36)	(15 ~ 550)	2 ~ 60	5 ~ 125	10 ~ 250	20 ~ 500			
- (GPH) US gal/min	(0.13~9.5)	(4~145)	0.6 ~ 16	1.3 ~ 33	2.6 ~ 66	5 ~ 132			
p	± 0.5% of	reading	± 0.15% of read	ding (15:1 turndown),	± 0.25% of reading	(25:1 turndown)			
Carlo and the first office and			typically ± 0.01	1% of reading					
ge	Section (Language)	-20°C ~ +80°C (-	4°F ~ +180°F), refer	factory for lower & hi	gher temperatures				
re (threaded meters)			bar (PSI)					
aluminium meters, Ryton cap	15 (220)		10 (150)				
6 stainless meters, Ryton cap	15 (220)	THE PERSON	10 (150)				
316 stainless meters		30 (440)							
high pressure models			refer factory						
ulse meters (see below for option	onal outputs)	LEAD LANDSON							
olution		p	ulses / litre (pulses	/ US gallon) - nomin	al				
Reed switch	4000 (15140)	200 (760)	75 (285)	32.5 (123)	12 (45)	8.1 (30.7)			
Hall effect & Quadrature	8000 (30280)	400 (1510)	150 (570)	65 (246)	523.5 (89)	16.2 (61.3)			
High Resolution Hall option	24000 (90840)	1200 (4540)			MINISTER I				
ut		30Vdc x 200m	A max. (maximum t	thermal shock 10°C (50°F) / minute)	The Real Property lies			
(NPN)		3 w	3 wire open collector, 5~24Vdc max., 20mA max.						
		4~20mA, scaled p	ulse, quadrature pulse	e, flow alarms or two	stage batch control				
AND SECURITY OF SECURITY				Transfer to the same	4 4 4 4 4 4				
		IP66/67 (NEMA4X	(), integral ancillaries	can be supplied I.S.	(intrinsically safe)				
@ maximum flow				120000000000000000000000000000000000000	75 db				
			refer da	ta sheet					
art	The state of the state of	All Control of the Land	refer da	Contract State of Contract Con					
			TOTAL GA						

Model Designation

Vicessities	Mon flow
Viscosities	Max. flow
(cp)	multiplier
up to 1200	1.0
1200~4000	0.6
up to 6000	0.5
up to 10000	0.4
up to 20000	0.3
40000 max.	0.16
60000 max.	0.12
100000 max.	0.08
200000 max.	0.06
400000 max.	0.05
600000 max.	0.04
up to 1000000	0.03

Size

ΤG	004	1/8"	aluminium or stainless steel
TG	800	3/8"	aluminium or stainless steel
TG	015	1/2"	aluminium or stainless steel
TG	025	1"	aluminium or stainless steel
TG	040	11/2"	aluminium or stainless steel
TG	050	2"	aluminium or stainless steel

Body material

	Dody matorial	
S	316L Stainless Steel	
Α	Aluminium	

Tri-gear material

1	PPS (Ryton)	
^	DEEK/EDA Approved Met	

- PEEK (FDA Approved Material)
 Keishi cut PPS (Ryton) for high viscosity liquids
 Keishi cut PEEK for high viscosity liquids
 - Bearing type
 - 1 PPS (Ryton)

O-ring material

1	Viton <i>(standard)</i>
2	EPR - (Ethylene Propylene Rubber)
3	Teflon encapsulated viton
4	Buna-N (Nitrile) 100 °C (212 °F) max.

Temperature limits

1	80°C (180°F)	
2	120℃ (250℉) - <i>see note 1</i>	

Process connections

1	BSP female threaded
2	NPT female threaded
4	ANSI-150 RF flanges
5	ANSI-300 RF flanges
6	PN 16 DIN flanges
9	Customer no minated

Cable entries

1	M 20 x 1.5mm		
2	1/2" NPT		

Model No. Example

TG025	Α	1	1	1	~	1	2	1	F1 (refer factory for model availabil	ity)
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Integral options

High resolution Hall Effect output	HR	High Resolution
Pulsating flow Hall Effect option	PF	Pulsating Flow
Loop powered 4~20mA output option	FI	Analog output
Loop powered high & low flow alarms	FA	Flow Alarms
Loop powered pulse scaling	SP	Scaled Pulse output

(1) Cooling fin is fitted with LCD instruments for operation between $80\sim120^{\circ}\text{C}$ ($180\sim250^{\circ}\text{C}$)



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