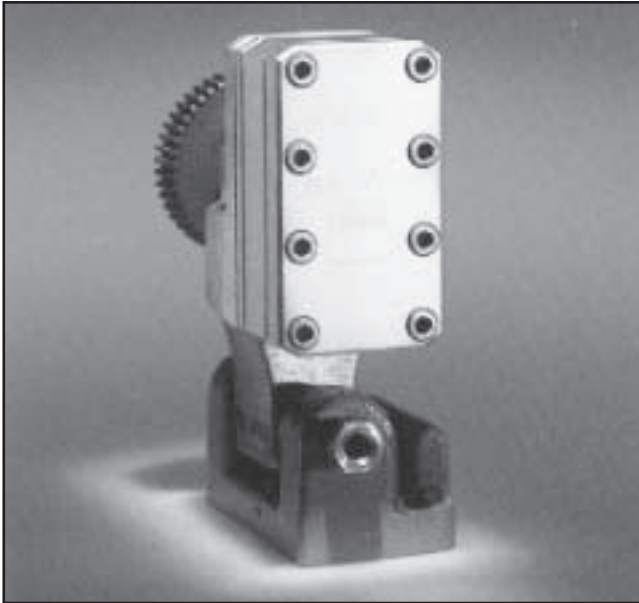


# Zenith® Pumps

# BMB/BMC Series

## Precise Flow Control



Zenith BMB/BMC Series pumps offer the metering benefits of the well known Zenith BPB series except in larger displacement designs. Dependable control of critical process streams or additives is equally important at higher flowrates, and Zenith BMB/BMC Series pumps often pay for themselves in savings in less than one year when they are used to replace less accurate metering methods. The reliable, repeatable, pulseless metered flow from a Zenith pump improves process control and mixing while eliminating costly overdosing.

## Benefits and Features

- **High Accuracy** - stable, repeatable flow control despite process variations in temperature, viscosity, and pressure.
- **High Pressure** - precision manufacturing techniques hold tolerances to + .00005" (1.25 micron), allowing gear clearances to be kept to a minimum and high process pressures to be achieved.
- **Pulseless** - precise, rotary spur gears provide smooth, continuous, pulseless flow.
- **Valveless** - precision metering gears eliminate troublesome check valves used in reciprocating pumps.
- **Active Flowmeter** - unparalleled mechanical precision combined with a closed-loop Zenith ZeDrive™ 2000 controller ensures exact flow control without the addition of expensive flowmeters.
- **Long Life** - only three moving parts - components through hardened to R<sub>c</sub>-54 or higher for wear resistance and strength.
- **Multi-pump Ratio Capability** - outer drive gear allows multiple pumps to be driven at different gear ratios by a single motor.

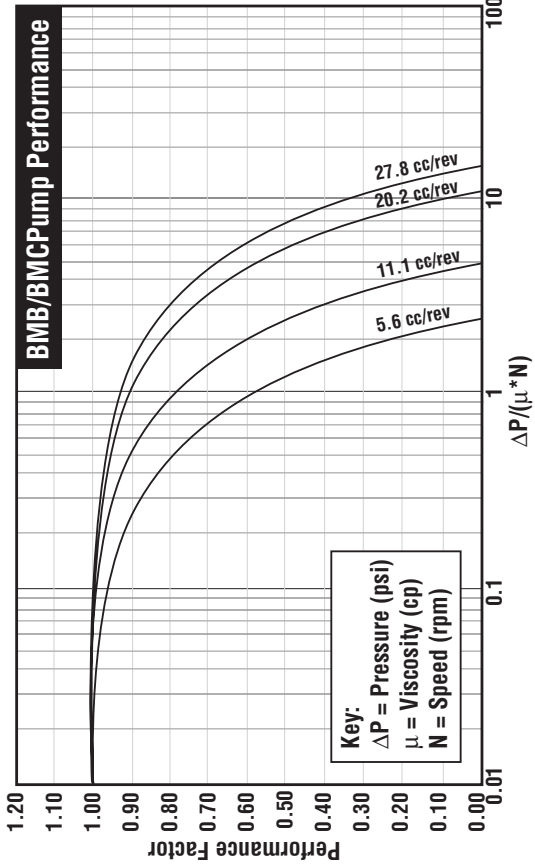
## Applications

Designed to provide stable, precise, repeatable flow control of process fluids despite variations in temperature, viscosity, and pressure. The Zenith BMB/BMC Series pumps are broadly applied to metering services such as colorings, catalysts, resins, flavorings, perfumes, vitamins, oils, binders, adhesives, coatings, inhibitors, paints/varnishes, polymers, lubricants, dyes, defoamers, pharmaceuticals, urethanes, fuels, viscose, and many others for the world's top industrial companies.

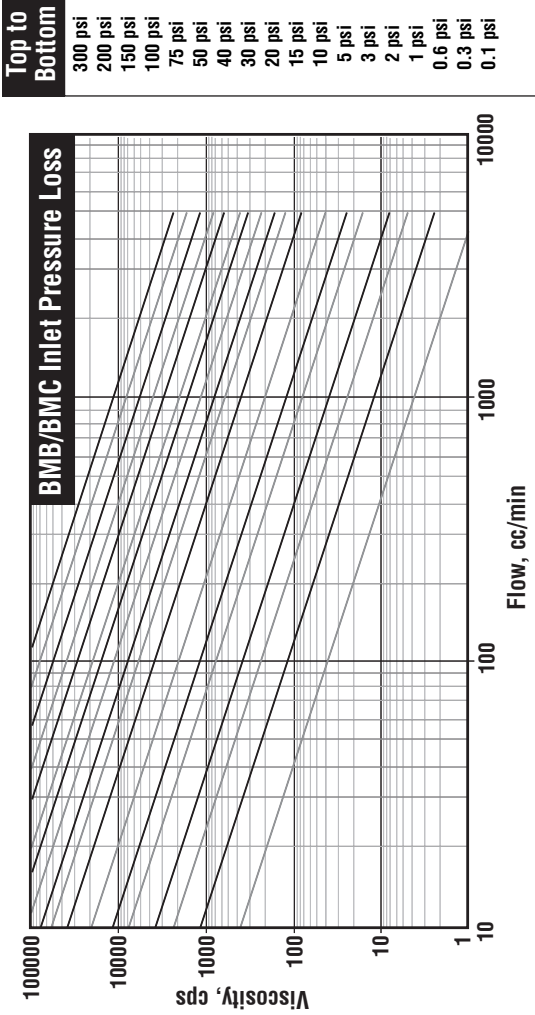
## Specifications

Model	BMB-5399 (2-Gear Design)	BMC-5337 (3-Gear Design)
Available Capacities	5.6 (cc/rev)	11.1, 20.2, 27.8 (cc/rev)
Flow Rate	0.88-16 GPH 56-1008 cc/min	1.79-79.3 GPH 111-5004 cc/min
Temperature Limit	300°F (150°C)	300°F (150°C)
Recommended Speed Range	10-180 rpm	10-180 rpm
Pump Rotation (Facing Outer Drive Gear)	CCW	CCW
Inlet Pressure Range	0-300 psi 2068 kPa	0-300 psi 2068 kPa
Discharge Pressure Limit	1000 psi 6895 kPa	500 psi 3447 kPa
Viscosity Range	1-100000 cp 0.001-100 Pa-s	1-100000 cp 0.001-100 Pa-s
Inlet/Outlet Port Connections	1/4" Female NPT or 1/2" OD tube w/37° Flare 300 Series Stainless Steel Trunnions	1/4" Female NPT or 1/2" OD tube w/37° Flare 300 Series Stainless Steel Trunnions
Mounting	Pivot Mount to non-wetted L-5677 Saddle	Pivot Mount to non-wetted L-5677 Saddle
Materials of Construction	400 Series Stainless Steel	400 Series Stainless Steel
Shaft Seals	Single Lip Seal, 85% PTFE/15% graphite with ss spring	Single Lip Seal, 85% PTFE/15% graphite with ss spring
Outer Drive Gear	48 Teeth other sizes available	48 Teeth other sizes available

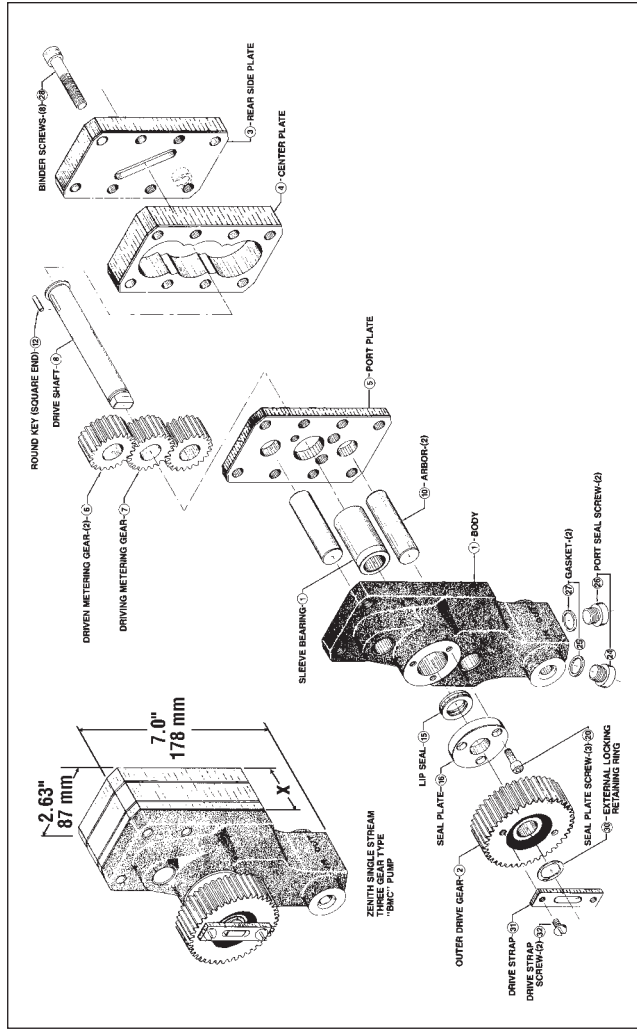




Flowrate = pump capacity (cc/rev) x rpm x performance factor



Top to Bottom
300 psi
200 psi
150 psi
100 psi
75 psi
50 psi
40 psi
30 psi
20 psi
15 psi
10 psi
5 psi
3 psi
2 psi
1 psi
0.6 psi
0.3 psi
0.1 psi



Model	Capacity (cc/rev)	X		Summary	Drawing No.
		in	mm		
BMB-5399	5.6	1.63	41.4	2 Gear Design	30C-14483
BMC-5337	11.1	1.63	41.4	3 Gear Design	30C-14377
	20.2	1.63	41.4		
	27.8	1.8	47.5		

**Important Note:** Contact the factory of your local authorized Zenith representative with details of your application for specific recommendations. Because of the multiplicity of conditions under which Zenith pumps are operated, we cannot make any performance guarantees. Zenith reserves the right to change specifications.

Refer to Zenith Maintenance Bulletin # B C&M 01 or Maintenance Video  
p/n 18-87050-0002-1

ISO 9001 : 2000 Registered  
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