



**HIBAR**  
SYSTEMS LIMITED

*The Liquid Dispensing Specialists*

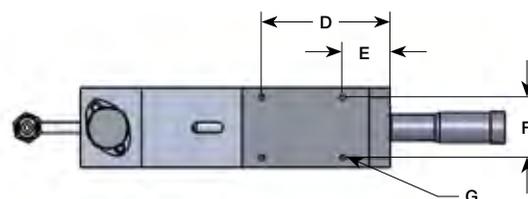
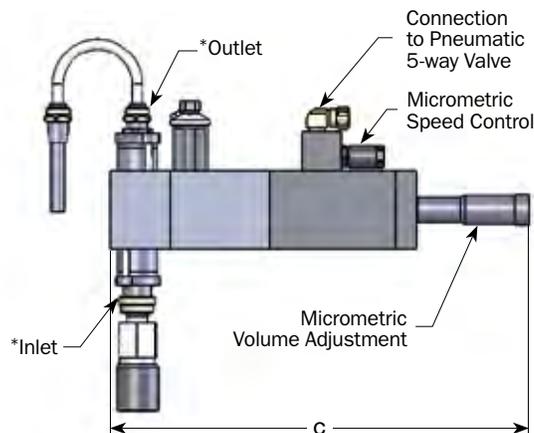
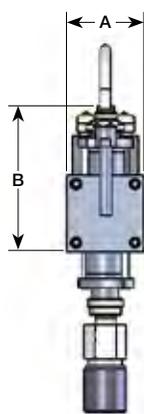


The **HIBAR B SERIES CHECK VALVE** style Dispensing Pumps have proven reliability having serviced the cosmetic, food, pharmaceutical and technical industries for over 30 years. These pumps are ideally suited for low to medium viscosity applications (<2000 cps) that require dispensing of .020 ml to 20 ml per shot.

## **B SERIES PRECISION CHECK VALVE DISPENSING PUMPS FEATURES**

- Pneumatic Piston Pump provides extremely high dispensing accuracies, typically  $\pm 1/2\%$  or better. (Some models are capable of dispensing quantities as small as 1  $\mu\text{l}$  with excellent accuracy).
- Precise dispense volume adjustment and speed control via the built-in micrometers and precision needle valves.
- Integrated check valves handle fluids with viscosities up to 20,000 cps. containing no solids.
- Easy to disassemble, clean and maintain.
- Modular design makes it easy to integrate with automated filling equipment.
- 316L Stainless Steel construction standard.
- A number of different pump construction materials are available to insure product compatibility.
- Robust design provides reliable and extended life. A service life of 20 million cycles without maintenance for some applications is not unusual. Pumps have provided continuous service for over 25 years with only routine maintenance required.
- Wide range of fill nozzles and accessories are available to suit specific applications.
- Servo motor driven models are also available. Consult Hibar for details.

### PRECISION CV DISPENSING PUMPS SPECIFICATIONS AND APPLICATIONS



\* Tube style inlet and outlet shown.  
Other styles available.  
Consult Hibar for different product connection requirements.

Model	Plunger Diameter		Stroke inch (mm)	Maximum Dispensing Volume (cc)	Cycle Speed (cpm)	Air Consumption scfm (l/min)	External Dimensions inch (mm)						Weight lbs (kg)	
	inch	mm					A	B	C	D	E	F		G
1BC-1S	0.079	(2.0)	1/4 (6.4)	0.020	0-300 <sup>A</sup>	0.22 (6.2) <sup>B</sup>	1.68 (43)	3.45 (88)	7.77	2.52 (64)	0.89 (23)	1.25 (32)	8-32	5.0 (2.3)
1BC-2S	1/8	(3.2)		0.050					8.01 (203)					
1BC-3S	3/16	(4.8)		0.110					8.01 (203)					
1BC-3M	3/16	(4.8)	1/2 (12.7)	0.230	0-300 <sup>A</sup>	0.44 (12.5) <sup>B</sup>	1.68 (43)	3.45 (88)	8.01	2.52 (64)	0.89 (23)	1.25 (32)	8-32	5.0 (2.3)
1BC-4M	1/4	(6.4)		0.400					8.01 (203)					
1BC-5M	5/16	(7.9)		0.620					8.01 (203)					
1BC-7M	7/16	(11.1)		1.220					8.01 (203)					
1BC-10M	5/8	(15.9)		2.510					8.01 (203)					
2BC-8R	1/2	(12.7)	1 (25.4)	3.220	0-150 <sup>A</sup>	0.83 (23.5) <sup>B</sup>	1.94 (49)	3.71 (94)	10.53	3.2 (81)	1.2 (30)	1.5 (38)	8-32	7.9 (3.6)
2BC-10R	5/8	(15.9)		5.030					10.53 (267)					
2BC-12	3/4	(19.1)		7.240					10.53 (267)					
2BC-14	7/8	(22.2)		9.850					10.53 (267)					
2BC-17	1-1/16	(27.0)		14.520					10.53 (267)					
2BC-20	1-1/4	(31.8)		20.110					10.53 (267)					

<sup>A</sup> Maximum cycle rate is application dependant    <sup>B</sup> Calculated at full stroke at 100cpm, 75 PSI (5 Bar)

#### APPLICATIONS

General	Cosmetics	Food	Pharmaceutical
<ul style="list-style-type: none"> <li>Acids</li> <li>Alkalines</li> <li>Reagents</li> <li>Inks</li> <li>Paints</li> <li>Glues/Adhesives</li> <li>Battery Electrolyte</li> <li>Lighter Fluids</li> <li>Oils</li> <li>Solvents</li> </ul>	<ul style="list-style-type: none"> <li>Perfume</li> <li>Creams</li> <li>Lotions</li> <li>Shampoos</li> <li>Oils</li> <li>Mouthwash</li> <li>Nail Lacquer</li> <li>Moisturizer</li> <li>Skin Cleanser</li> <li>Make-up Remover</li> </ul>	<ul style="list-style-type: none"> <li>Ketchup</li> <li>Vinegar</li> <li>Honey</li> <li>Butter</li> <li>Coffee</li> <li>Cream</li> <li>Jelly</li> <li>Sauces</li> <li>Juices</li> <li>Puddings</li> </ul>	<ul style="list-style-type: none"> <li>Medicine</li> <li>Culture Media</li> <li>Biologicals</li> <li>Antibiotics</li> <li>Cough Syrup</li> </ul>



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## **B SERIES** **PRECISION** **ROTARY VALVE** **DISPENSING PUMPS**



0 ~ 20 ml  
Dispense  
Volume

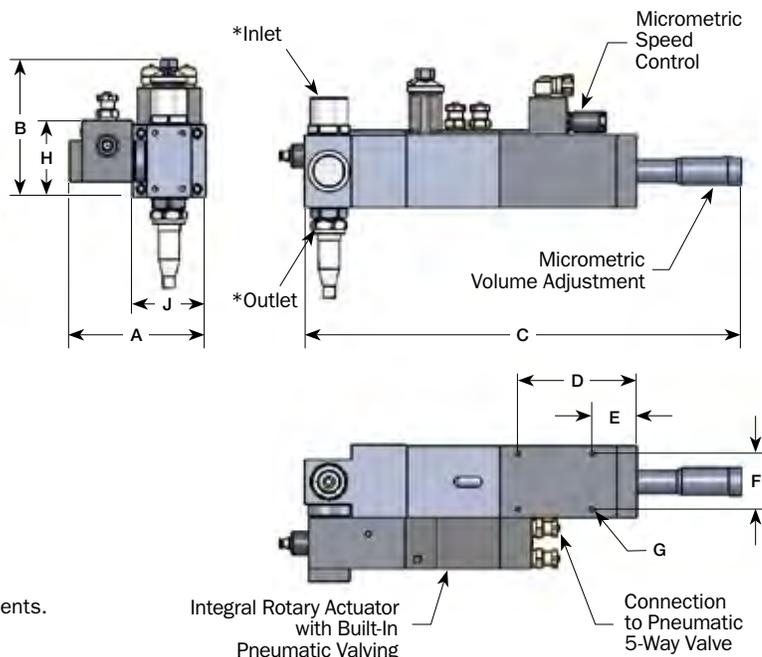
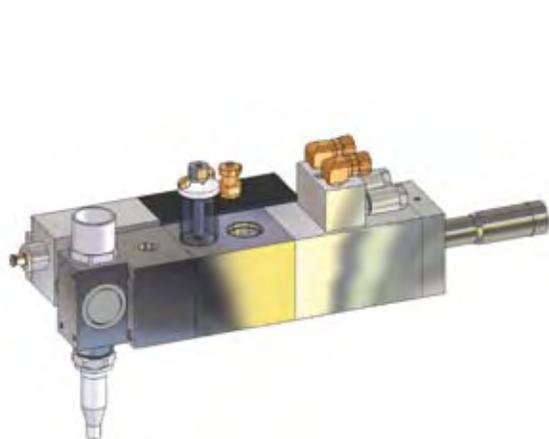
The **HIBAR B SERIES ROTARY VALVE** style Precision Dispensing Pumps have been servicing the cosmetic, food, pharmaceutical and technical industries for over 30 years. These pumps are ideally suited for medium to high viscosity applications (>5000 cps) that require dispensing of .050 to 20 ml per shot.

### **B SERIES PRECISION ROTARY VALVE DISPENSING PUMPS FEATURES**

- A number of different pump construction materials are available to insure product compatibility.
- Pneumatic Piston Pump provides extremely high dispensing accuracies, typically  $\pm 1/2\%$  or better.
- Precise dispense volume and speed control via adjustment of the built-in micrometers and precision needle valves.
- Wear resistant ceramic rotary valve handles high viscosity fluids with particulates up to 100,000 cps.
- Higher viscosities achievable with pressurized infeed. Consult Hibar for details.
- Flexible design that can adapt to changing dispensing needs for new applications.
- Easy to disassemble, clean and maintain.
- Wide range of fill nozzles and accessories are available to suit specific applications.
- Servo motor driven models are also available. Consult Hibar for details.

[www.hibar.com](http://www.hibar.com)

### PRECISION RV DISPENSING PUMPS SPECIFICATIONS AND APPLICATIONS



\* Hose style inlet and nozzle outlet shown.  
Other styles available.  
Consult Hibar for different product connection requirements.

Model	Plunger Diameter		Stroke inch (mm)	Maximum Dispensing Volume (cc)	Cycle Speed (cpm)	Air Consumption scfm (l/min)	External Dimensions inch (mm)								Weight lbs (kg)
	inch	mm					A	B	C	D	E	F	G	H	
1BR-3M	3/16	(4.8)	1/2 (12.7)	0.230	0-150 <sup>A</sup>	0.5 (14.1) <sup>B</sup>	3.39 (86)	3.45 (88)	8.9 (226)	2.52 (64)	0.89 (23)	1.25 (32)	8-32 (49)	1.70 (43)	7.0 (3.2)
1BR-4M	1/4	(6.4)		0.400											
1BR-5M	5/16	(7.9)		0.630											
1BR-7M	7/16	(11.1)		1.230											
1BR-10M	5/8	(15.9)		2.510											
2BR-8R	1/2	(12.7)	1 (25.4)	3.22	0-120 <sup>A</sup>	1.3 (36.8) <sup>B</sup>	3.66 (93)	3.71 (94)	11.78 (299)	3.2 (81)	1.2 (30)	1.5 (38)	8-32 (52)	1.96 (50)	9.0 (4.1)
2BR-10R	5/8	(15.9)		5.03											
2BR-12	3/4	(19.1)		7.24											
2BR-14	7/8	(22.2)		9.85											
2BR-17	1-1/8	(27.0)		14.52											
2BR-20	1-1/4	(31.8)		20.11											

<sup>A</sup> Maximum cycle rate is application dependant    <sup>B</sup> Calculated at full stroke at 100 cpm, 75 PSI (5Bar)

#### APPLICATIONS

General	Cosmetics	Food	Pharmaceutical
<ul style="list-style-type: none"> <li>• Toothpaste</li> <li>• Caulking</li> <li>• Glues/Adhesives</li> <li>• Grease/Oils</li> <li>• Zinc Gel</li> </ul>	<ul style="list-style-type: none"> <li>• Abrasive Kitchen/Bathroom Cleaner</li> <li>• Paints/Inks</li> <li>• Tooth Whitener</li> <li>• Fluxes</li> </ul>	<ul style="list-style-type: none"> <li>• Mascara</li> <li>• Exfoliant</li> <li>• Lipstick</li> <li>• Creams</li> <li>• Lotions</li> </ul>	<ul style="list-style-type: none"> <li>• Shampoos</li> <li>• Antiperspirant</li> <li>• Lip Gloss</li> <li>• Nail Lacquer</li> <li>• Foundation</li> </ul>
		<ul style="list-style-type: none"> <li>• Salad Dressing</li> <li>• Popcorn Oil</li> <li>• Ketchup/Mustard</li> <li>• Marmalade</li> <li>• Sauces</li> </ul>	<ul style="list-style-type: none"> <li>• Juices</li> <li>• Honey</li> <li>• Butter</li> <li>• Margarine</li> <li>• Relish</li> </ul>
			<ul style="list-style-type: none"> <li>• Medicine</li> <li>• Cough Syrup</li> <li>• Antibiotic</li> <li>• Blood Serum</li> <li>• Biological</li> </ul>



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## 4H SERIES PRECISION CHECK VALVE DISPENSING PUMPS



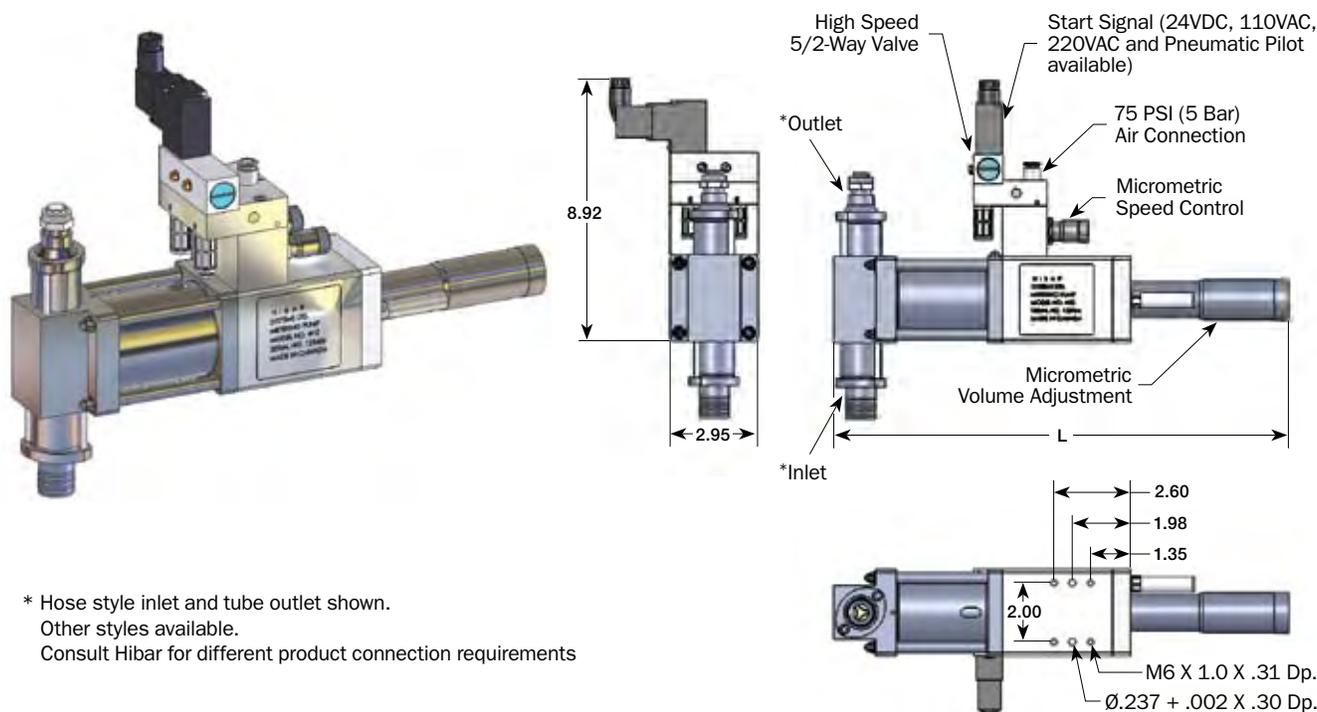
The **NEW HIBAR 4H SERIES CHECK VALVE STYLE DISPENSING PUMPS** are ideally suited for low to medium viscosity applications in food, cosmetic, technical and pharmaceutical industries. Dispensing accuracies of  $\pm 1/2\%$  or better can be easily maintained without readjustment or recalibration.

### 4H SERIES PRECISION CHECK VALVE PUMP FEATURES

- High quality Stainless Steel construction.
- Integrated check valves handle fluids with viscosities up to 20,000 cps. and containing no solids.
- Easy to disassemble, clean and maintain.
- Dispensing accuracies of up to  $\pm 1/2\%$  or better.
- Precise dispense volume and speed control via adjustment of the built-in micrometers.
- Modular design makes it easy to integrate with automated filling equipment.
- Completely self-contained pneumatics provide easy integration with virtually any automated filling equipment.
- Compact footprint for easy mounting.
- Long service life lasting for millions of cycles.
- Wide range of fill nozzles & accessories are available to suit specific applications.
- Servo motor driven models are also available. Consult Hibar for details.

[www.hibar.com](http://www.hibar.com)

### PRECISION CV DISPENSING PUMPS SPECIFICATIONS AND APPLICATIONS



\* Hose style inlet and tube outlet shown.  
Other styles available.  
Consult Hibar for different product connection requirements

Model	Plunger Diameter		Stroke		Maximum Dispensing Volume (cc)	Cycle Speed (cpm)	Air Consumption scfm (l/min)	L		Weight lbs (kg)
	inch	(mm)	inch	(mm)				inch	(mm)	
4H1-C-10	7/8	(22.23)	1.00	(25.4)	9.9	0-180 <sup>A</sup>	1.82 (51.5) <sup>B</sup>	12.47	(317.0)	13.75 (6.2)
4H1-C-30	1-5/8	(41.28)			34.0			11.47	(91.0)	
4H1-C-60	2-1/8	(53.98)			58.0			17.44	(443.0)	
4H2-C-20	7/8	(22.23)	2.00	(50.8)	20.0	0-150 <sup>A</sup>	3.02 (85.5) <sup>B</sup>	15.44	(392.0)	15.25 (6.9)
4H2-C-65	1-5/8	(41.28)			68.0			19.44	(494.0)	
4H2-C-110	2-1/8	(53.98)			116.0			22.44	(570.0)	
4H3-C-30	7/8	(22.23)	3.00	(76.2)	30.0	0-120 <sup>A</sup>	3.63 (102.8) <sup>B</sup>	19.44	(494.0)	16.75 (7.6)
4H3-C-100	1-5/8	(41.28)			102.0			21.24	(539.5)	
4H3-C-170	2-1/8	(53.98)			174.0			19.0	(8.6)	
4H4.5-C-150	1-5/8	(41.28)	4.50	(114.3)	153.0	0-90 <sup>A</sup>	4.08 (115.5) <sup>B</sup>			
4H4.5-C-260	2-1/8	(53.98)			261.0					

<sup>A</sup> Maximum cycle rate is application dependant    <sup>B</sup> Calculated at full stroke at 100cpm, 75 PSI (5 Bar)

#### APPLICATIONS

Pharmaceutical	Cosmetics		Food	General	
<ul style="list-style-type: none"> <li>Medicine</li> <li>Culture Media</li> <li>Biologicals</li> <li>Antibiotics</li> <li>Cough Syrup</li> </ul>	<ul style="list-style-type: none"> <li>Perfume</li> <li>Creams</li> <li>Lotions</li> <li>Shampoos</li> <li>Oils</li> </ul>	<ul style="list-style-type: none"> <li>Mouthwash</li> <li>Nail Lacquer</li> <li>Moisturizer</li> <li>Skin Cleanser</li> <li>Make-up Remover</li> </ul>	<ul style="list-style-type: none"> <li>Ketchup</li> <li>Vinegar</li> <li>Honey</li> <li>Butter</li> <li>Coffee</li> </ul>	<ul style="list-style-type: none"> <li>Cream</li> <li>Jelly</li> <li>Sauces</li> <li>Juices</li> <li>Puddings</li> </ul>	<ul style="list-style-type: none"> <li>Acids</li> <li>Alkalines</li> <li>Reagents</li> <li>Inks</li> <li>Paints</li> <li>Glues/Adhesives</li> <li>Battery Electrolyte</li> <li>Lighter Fluids</li> <li>Oils</li> <li>Solvents</li> </ul>



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## 4H SERIES PRECISION ROTARY VALVE DISPENSING PUMPS

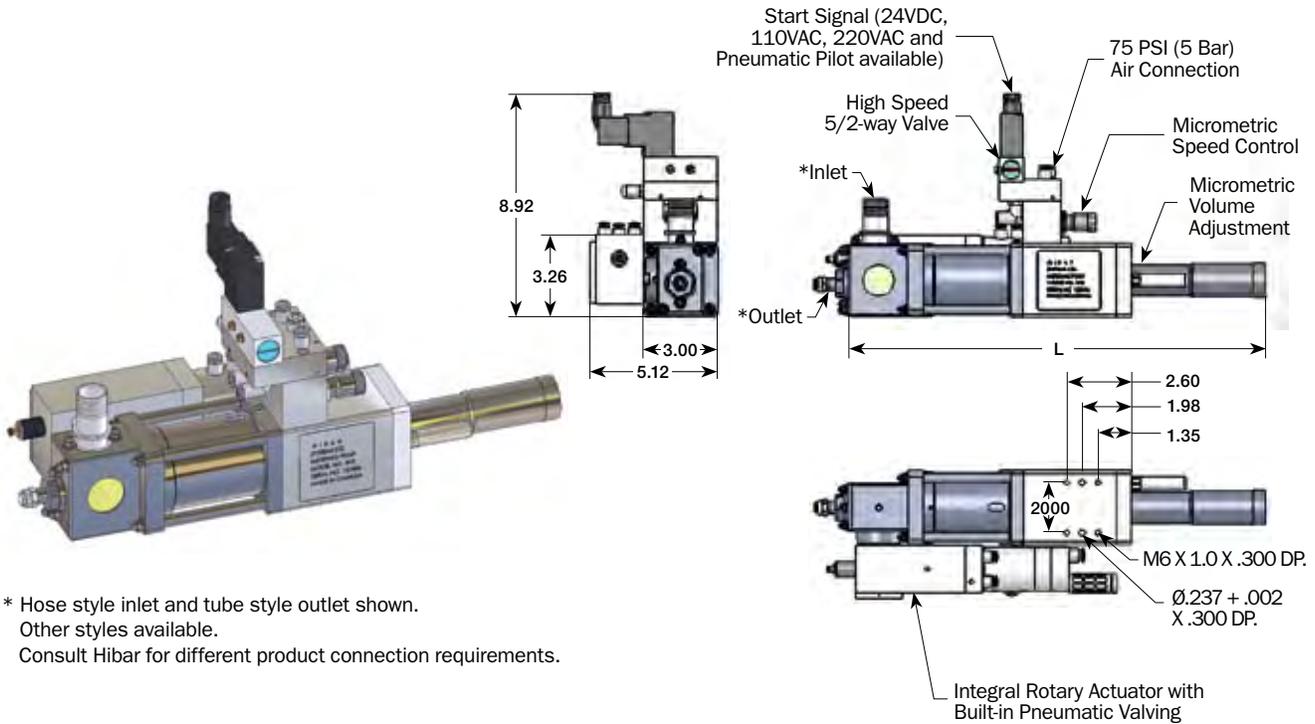


The **NEW HIBAR 4H SERIES ROTARY VALVE STYLE DISPENSING PUMPS** are ideally suited for higher viscosity applications in food, cosmetic, technical and pharmaceutical industries. Liquids with up to 100,000 cps viscosities and including particulates are easily handled with our durable ceramic rotary valve design. Dispensing accuracies of  $\pm 1/2\%$  or better with positive cut-off and no drip can be easily maintained without readjustment or recalibration.

### 4H SERIES PRECISION ROTARY VALVE PUMP FEATURES

- High quality Stainless Steel construction.
- Wear resistant ceramic rotary valve handles high viscosity fluids with particulates up to 100,000 cps. Higher viscosities achievable with pressurized infeed.
- Easy to disassemble, clean and maintain.
- Compact footprint for easy mounting.
- Long service life for millions of cycles.
- Dispensing accuracies of up to  $\pm 1/2\%$  or better.
- Completely self-contained pneumatics provide easy integration with virtually any automated filling equipment.
- Precise dispense volume and speed control via adjustment of the built-in micrometers.
- Wide range of fill nozzles and accessories are available to suit specific applications.
- Servo motor driven models are also available. Consult Hibar for details.

### PRECISION RV DISPENSING PUMPS SPECIFICATIONS AND APPLICATIONS



\* Hose style inlet and tube style outlet shown.  
Other styles available.  
Consult Hibar for different product connection requirements.

Model	Plunger Diameter		Stroke	Maximum Dispensing Volume (cc)	Cycle Speed (cpm)	Air Consumption scfm (l/min)	L		Weight lbs (kg)
	inch	(mm)					inch	(mm)	
4H1-R-10	7/8	(22.23)	1.00	9.9	0-140 <sup>A</sup>	1.41 (39.9) <sup>B</sup>	13.76	(350)	17.5 (7.9)
4H1-R-30	1-5/8	(41.28)		34			12.76	(324)	
4H1-R-60	2-1/8	(53.98)		58			18.73	(476)	
4H2-R-20	7/8	(22.23)	2.00	20	0-110 <sup>A</sup>	2.22 (62.9) <sup>B</sup>	16.73	(425)	19.0 (8.6)
4H2-R-65	1-5/8	(41.28)		68			23.73	(603)	
4H2-R-110	2-1/8	(53.98)		116			20.73	(527)	
4H3-R-30	7/8	(22.23)	3.00	30	0-90 <sup>A</sup>	2.72 (77) <sup>B</sup>	23.73	(603)	20.5 (9.3)
4H3-R-100	1-5/8	(41.28)		102			24.53	(623)	
4H3-R-170	2-1/8	(53.98)		174			22.75	(10.3)	
4H4.5-R-150	1-5/8	(41.28)	4.50	153	0-60 <sup>A</sup>	2.72 (77) <sup>B</sup>	24.53	(623)	22.75 (10.3)
4H4.5-R-260	2-1/8	(53.98)		261					

<sup>A</sup> Maximum cycle rate is application dependant    <sup>B</sup> Calculated at full stroke at 100cpm, 75 PSI (5 bar)

#### APPLICATIONS

Cosmetics		Food		Pharmaceutical		General	
• Mascara	• Shampoos	• Salad Dressing	• Juices	• Medicine	• Toothpaste	• Abrasive Kitchen/ Bathroom Cleaner	
• Exfoliant	• Antiperspirant	• Popcorn Oil	• Honey	• Cough Syrup	• Caulking		
• Lipstick	• Lip Gloss	• Ketchup/Mustard	• Butter	• Antibiotic	• Glues/Adhesives	• Paints/Inks	
• Creams	• Nail Lacquer	• Marmalade	• Margarine	• Blood Serum	• Grease/Oils	• Tooth Whitener	
• Lotions	• Foundation	• Sauces	• Relish	• Biological	• Zinc Gel	• Fluxes	



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## 5H SERIES PRECISION CHECK VALVE DISPENSING PUMPS



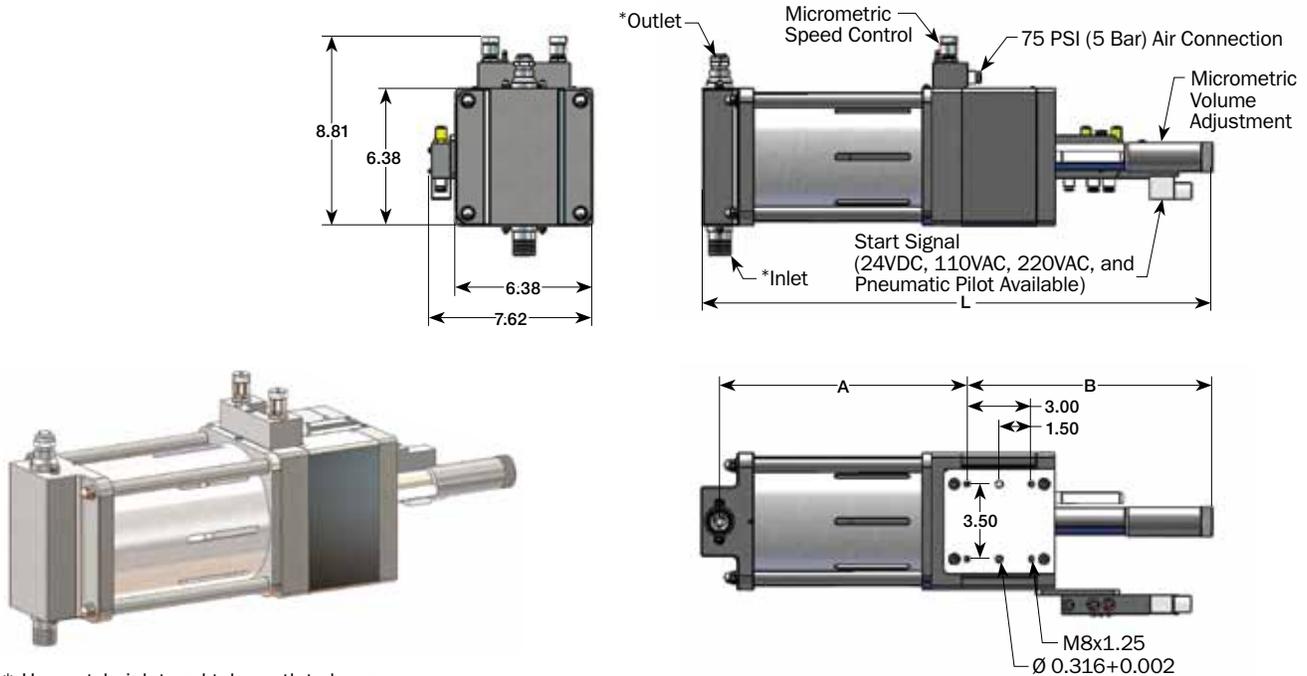
Maximum 2.0 L  
Dispense Volume

The **HIBAR 5H SERIES CHECK VALVE STYLE DISPENSING PUMPS** are ideally suited for low to medium viscosity applications in technical, food, cosmetic and pharmaceutical industries. Dispensing accuracies of  $\pm 1/2\%$  or better can be easily maintained.

### 5H SERIES PRECISION CHECK VALVE DISPENSING PUMPS FEATURES

- High quality Stainless Steel construction.
- Integrated check valves handle fluids with viscosities up to 15,000 cps. and containing no solids.
- Easy to disassemble, clean and maintain.
- Compact footprint for easy mounting.
- Dispensing accuracies of up to  $\pm 1/2\%$  or better.
- Precise dispense volume and speed control via adjustment of the built-in micrometers.
- Easy integration with virtually any automated filling equipment.
- Low maintenance and long service life.
- Wide range of fill nozzles and accessories are available to suit specific applications.

### PRECISION CV DISPENSING PUMPS SPECIFICATIONS AND APPLICATIONS



\* Hose style inlet and tube outlet shown.  
Other styles available.  
Consult Hibar for different product connection requirements.

Model	Plunger Diameter		Stroke		Maximum Dispensing Volume (cc)	Cycle Speed (cpm)	Air Consumption scfm (l/min)	External Dimensions inch (mm)			Weight	
	inch	(mm)	inch	(mm)				A	B	L	lbs	(kg)
5H3-C-100	1-5/8	(41.28)	3.00	(76.2)	102	0-30 <sup>C</sup>	11.5 (325) <sup>A</sup>	11.54 (293.1)	11.42 (290.1)	23.77 (603.7)	60	(27.21)
5H3-C-250	2-3/4	(69.85)			292							
5H3-C-500	3-3/4	(95.25)			543							
5H3-C-1000	5-1/8	(130.18)			1014							
5H6-C-2000	5-1/8	(130.18)	6.00	(152.4)	2028	0-12 <sup>C</sup>	9.5 (269) <sup>B</sup>	13.04 (331.2)	12.95 (328.9)	26.79 (680.4)	64	(29.03)

<sup>A</sup> Calculated at full stroke at 30 cpm, 75 psi

<sup>B</sup> Calculated at full stroke at 12 cpm, 75 psi

<sup>C</sup> Maximum cycle rate is application dependant

#### APPLICATIONS

Pharmaceutical	Cosmetics		Food	General	
<ul style="list-style-type: none"> <li>• Medicine</li> <li>• Culture Media</li> <li>• Biologicals</li> <li>• Antibiotics</li> <li>• Cough Syrup</li> </ul>	<ul style="list-style-type: none"> <li>• Perfume</li> <li>• Creams</li> <li>• Lotions</li> <li>• Shampoos</li> <li>• Oils</li> </ul>	<ul style="list-style-type: none"> <li>• Mouthwash</li> <li>• Nail Lacquer</li> <li>• Moisturizer</li> <li>• Skin Cleanser</li> <li>• Make-up Remover</li> </ul>	<ul style="list-style-type: none"> <li>• Ketchup</li> <li>• Vinegar</li> <li>• Honey</li> <li>• Butter</li> <li>• Coffee</li> </ul>	<ul style="list-style-type: none"> <li>• Cream</li> <li>• Jelly</li> <li>• Sauces</li> <li>• Juices</li> <li>• Puddings</li> </ul>	<ul style="list-style-type: none"> <li>• Acids</li> <li>• Alkalines</li> <li>• Reagents</li> <li>• Inks</li> <li>• Paints</li> <li>• Glues/Adhesives</li> <li>• Battery Electrolyte</li> <li>• Lighter Fluids</li> <li>• Oils</li> <li>• Solvents</li> </ul>



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## 5H SERIES PRECISION ROTARY VALVE DISPENSING PUMPS



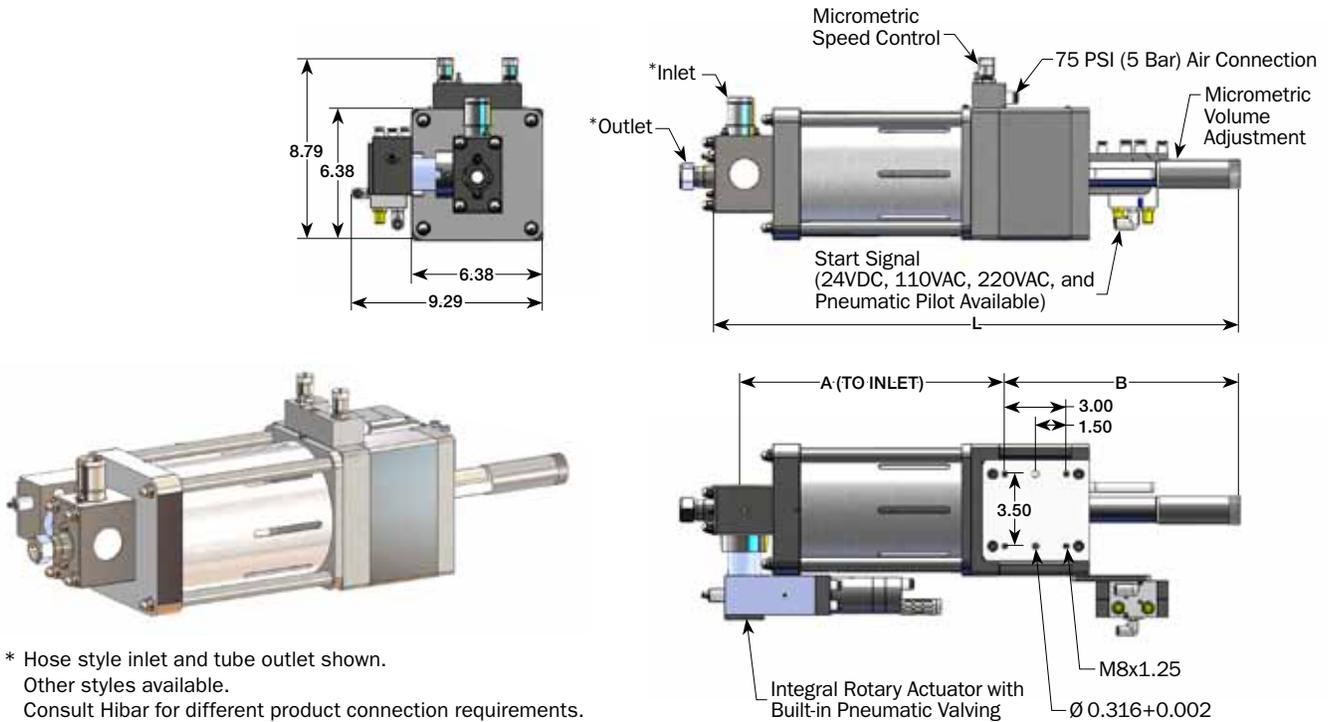
Maximum 2.0 L  
Dispense Volume

The **HIBAR 5H SERIES ROTARY VALVE STYLE DISPENSING PUMPS** are ideally suited for higher viscosity applications in technical, food, cosmetic and pharmaceutical industries. Liquids with viscosity up to 100,000 cps and including particulates are easily handled with our durable ceramic rotary valve design.

### 5H SERIES PRECISION ROTARY VALVE DISPENSING PUMPS FEATURES

- High quality Stainless Steel construction.
- Wear resistant ceramic rotary valve handles high viscosity fluids with particulates up to 100,000 cps. Higher viscosities achievable with pressurized infeed - Consult Hibar.
- Easy to disassemble, clean and maintain.
- Compact footprint for easy mounting.
- Dispensing accuracies of up to  $\pm 1/2\%$  or better.
- Precise dispense volume and speed control via adjustment of the built-in micrometers.
- Easy integration with virtually any automated filling equipment.
- Low maintenance and long service life.
- Wide range of fill nozzles and accessories are available to suit specific applications.

### PRECISION RV DISPENSING PUMPS SPECIFICATIONS AND APPLICATIONS



\* Hose style inlet and tube outlet shown.  
Other styles available.  
Consult Hibar for different product connection requirements.

Model	Plunger Diameter		Stroke	Maximum Dispensing Volume (cc)	Cycle Speed (cpm)	Air Consumption scfm (l/min)	External Dimensions inch (mm)			Weight lbs (kg)
	inch	(mm)					A	B	L	
5H3-R-100	1-5/8	(41.28)	3.00 (76.2)	102	0-30 <sup>C</sup>	11.5 (325) <sup>A</sup>	12.85 (326.4)	11.42 (290.1)	25.55 (648.9)	70 (31.7)
5H3-R-250	2-3/4	(69.85)		292						
5H3-R-500	3-3/4	(95.25)		543						
5H3-R-1000	5-1/8	(130.18)		1014						
5H6-R-2000	5-1/8	(130.18)	6.00 (152.4)	2028	0-12 <sup>C</sup>	9.5 (269) <sup>B</sup>	14.35 (364.5)	12.95 (328.9)	28.57 (725.7)	73 (33.1)

<sup>A</sup> Calculated at full stroke at 30 cpm, 75 psi

<sup>B</sup> Calculated at full stroke at 12 cpm, 75 psi

<sup>C</sup> Maximum cycle rate is application dependant

#### APPLICATIONS

Cosmetics		Food		Pharmaceutical	General	
• Mascara	• Shampoos	• Salad Dressing	• Juices	• Medicine	• Toothpaste	• Abrasive Kitchen/ Bathroom Cleaner
• Exfoliant	• Antiperspirant	• Popcorn Oil	• Honey	• Cough Syrup	• Caulking	• Paints/Inks
• Lipstick	• Lip Gloss	• Ketchup/Mustard	• Butter	• Antibiotic	• Glues/Adhesives	• Tooth Whitener
• Creams	• Nail Lacquer	• Marmalade	• Margarine	• Blood Serum	• Grease/Oils	• Fluxes
• Lotions	• Foundation	• Sauces	• Relish	• Biological	• Zinc Gel	



**HIBAR**  
SYSTEMS LIMITED

*The Liquid Dispensing Specialists*

**P SERIES** SEALLESS CERAMIC  
**SERVO MOTOR  
CONTROLLED  
PRECISION METERING PUMPS**



0 ~ 20 ml  
Dispense  
Volume

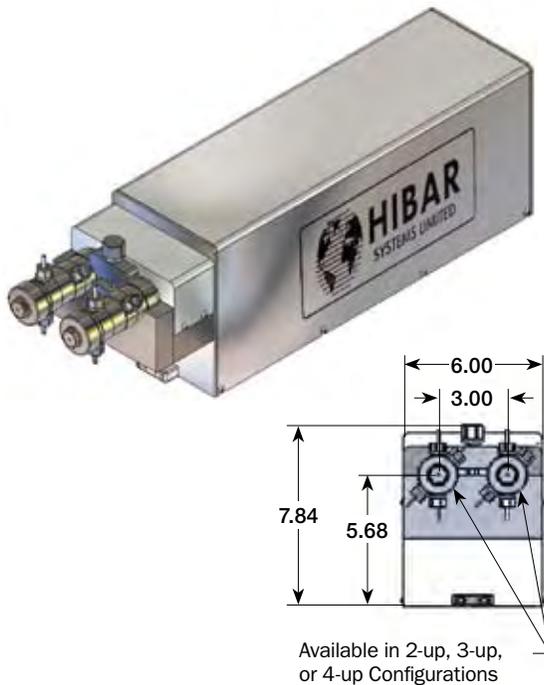
The **NEW HIBAR P SERIES SEALLESS PRECISION METERING PUMPS** are specifically designed to meet the demanding requirements of the Pharmaceutical Industry. The pumps feature close fitting sealless ceramic pistons and cylinders engineered for Pharmaceutical liquid dispensing applications.

Our unique rotary piston design with precision fit cylinder requires no dynamic seals, making the pump easy to clean and maintain. State-of-the-art servo motor drives provide full programmability of dispense volume, dispense speed profiles and automatic cleaning cycles.

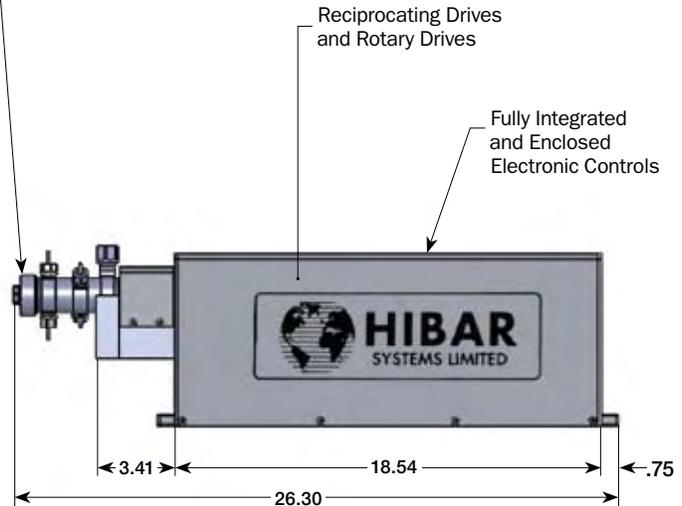
### **P SERIES PRECISION METERING PUMPS FEATURES**

- Positive Displacement Piston Pump better than  $\pm 0.5\%$  volumetric accuracy.
- No dynamic seals – Low maintenance.
- Dispense volumes from 0 to 20 ml.
- Standard 316L Stainless Steel construction.
- Modular design makes it easy to integrate with automated filling equipment.
- Wear resistant ceramic rotary piston valve handles low and high viscosity fluids with up to 100,000 cps.
- No tools required for easy disassembly, cleaning and maintenance.
- Programmable clean-in-place cycle.
- 2 Axis servo motor drives with built-in motor motion controls.
- Built-in I/O ports for easy integration with existing automated filling systems.
- Simple operation via menu driven controls.
- Pneumatic models are also available. Consult Hibar for details.
- Models are also available in various multiple configurations and drive options. Consult Hibar for details.

**PRECISION METERING PUMPS SPECIFICATIONS AND APPLICATIONS**



- Quick Disconnect Pump Heads with Seamless Ceramic Plunger/Sleeve Set
- A Range of Inlet and Outlet Connections available



Model	Plunger Diameter		Stroke		Maximum Dispensing Volume (cc)	Cycle Speed (cpm)	Weight lbs (kg)
	inch	mm	inch	(mm)			
1SRP-3	3/16	(4.8)	3/4	(19.05)	0.339	0-120 <sup>A</sup>	50 (22.7)
1SRP-7	7/16	(11.1)			1.847		
1SRP-10	5/8	(15.9)			3.770		
1SRP-12	3/4	(19.1)	1	(25.40)	7.240		
1SRP-20	1-1/4	(31.8)			20.110		

<sup>A</sup> Maximum cycle rate is application dependant



**Custom Configured 40 Pump System**

**APPLICATIONS**

Pharmaceutical	Cosmetics		Food	General
<ul style="list-style-type: none"> <li>• Medicine</li> <li>• Culture Media</li> <li>• Biologicals</li> <li>• Antibiotics</li> <li>• Cough Syrup</li> </ul>	<ul style="list-style-type: none"> <li>• Perfume</li> <li>• Creams</li> <li>• Lotions</li> <li>• Shampoos</li> <li>• Oils</li> </ul>	<ul style="list-style-type: none"> <li>• Mouthwash</li> <li>• Nail Lacquer</li> <li>• Moisturizer</li> <li>• Skin Cleanser</li> <li>• Make-up Remover</li> </ul>	<ul style="list-style-type: none"> <li>• Ketchup</li> <li>• Vinegar</li> <li>• Honey</li> <li>• Butter</li> <li>• Coffee</li> </ul>	<ul style="list-style-type: none"> <li>• Cream</li> <li>• Jelly</li> <li>• Sauces</li> <li>• Juices</li> <li>• Puddings</li> </ul>
				<ul style="list-style-type: none"> <li>• Acids</li> <li>• Alkalines</li> <li>• Reagents</li> <li>• Inks</li> <li>• Paints</li> </ul>
				<ul style="list-style-type: none"> <li>• Glues/ Adhesives</li> <li>• Battery Electrolyte</li> <li>• Lighter Fluids</li> <li>• Oils</li> <li>• Solvents</li> </ul>



**HIBAR**  
SYSTEMS LIMITED

*The Liquid Dispensing Specialists*

**RP SERIES** SEALLESS CERAMIC

**PNEUMATIC**

**PRECISION METERING PUMPS**



0 ~ 20 ml  
Dispense  
Volume

The **NEW HIBAR 'RP' SERIES SEALLESS PRECISION METERING PUMPS** are specifically designed to meet the stringent requirements of the Pharmaceutical Industry. The pumps feature close fitting sealless ceramic pistons and cylinders engineered for Pharmaceutical liquid dispensing applications.

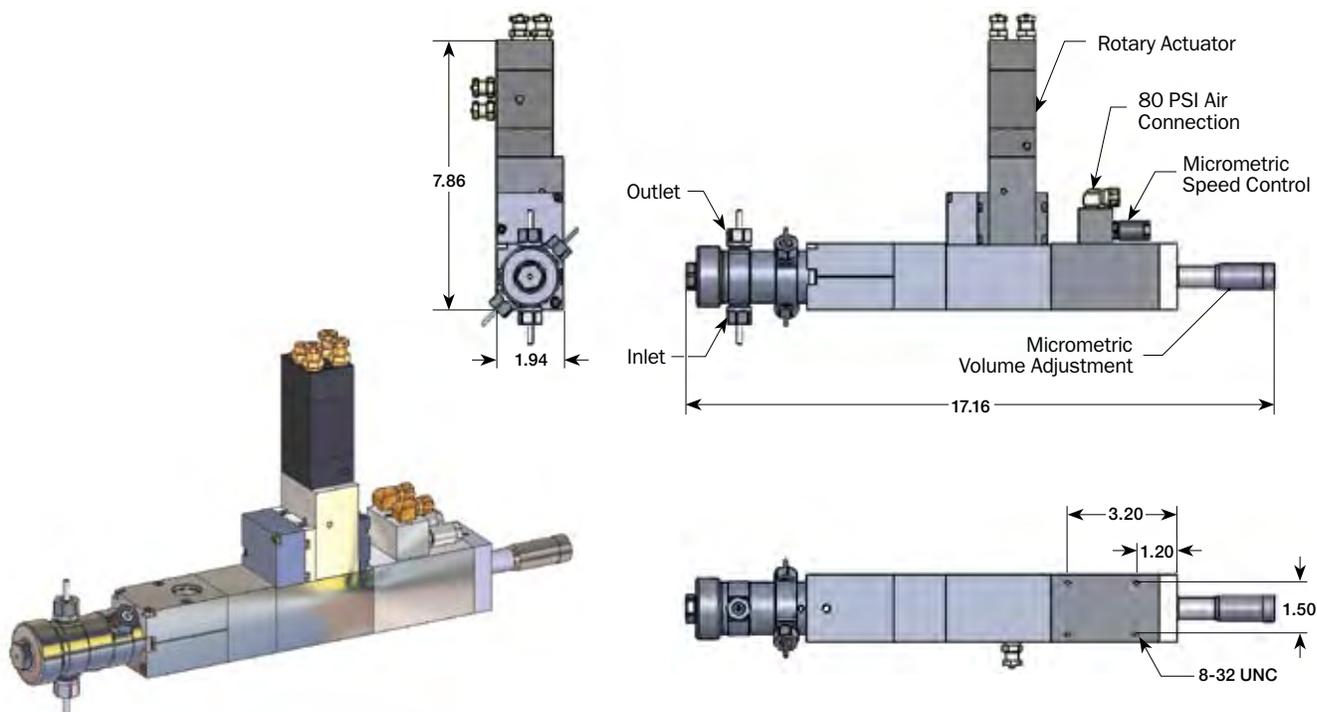
Our unique Rotary Piston design with precision fit cylinder requires no dynamic seals, making the pump easy to clean and maintain. The proven Pneumatic Drive provides modularity, flexibility at an affordable price.

### **RP SERIES PRECISION METERING PUMPS FEATURES**

- Dispense volumes from 0 to 20 ml.
- No dynamic seals – Low maintenance.
- Positive Displacement Piston Pump delivers better than  $\pm 0.5\%$  volumetric accuracy.
- Standard 316L Stainless Steel construction.
- Modular design makes it easy to integrate with automated filling equipment.
- Wear resistant ceramic rotary piston valve handles low and high viscosity fluids with up to 100,000 cps.
- Compact footprint for easy mounting.
- No tools required for easy disassembly, cleaning and maintenance.
- Precise dispense volume and speed control via adjustment of the built-in micrometers and precision needle valves.
- Wide range of fill nozzles and accessories are available to suit specific applications.
- Servo motor driven models are also available. Consult Hibar for details.

[www.hibar.com](http://www.hibar.com)

**PNEUMATIC PRECISION METERING PUMPS SPECIFICATIONS AND APPLICATIONS**



Model	Plunger Diameter		Stroke	Maximum Dispensing Volume (cc)	Cycle Speed (cpm)	Air Consumption scfm (l/min)	Weight lbs (kg)
	inch	mm					
1BRP-3	3/16	(4.8)	3/4 (19.05)	0.339	0-120 <sup>A</sup>	1.3 (36.8) <sup>B</sup>	12.3 (5.6)
1BRP-7	7/16	(11.1)		1.847			
1BRP-10	5/8	(15.9)		3.770			
1BRP-12	3/4	(19.1)	1 (25.4)	7.24	1-100	2.6 (73.6)	
1BRP-20	1-1/4	(31.8)		20.11			

<sup>A</sup> Maximum cycle rate is application dependant    <sup>B</sup> Calculated at full stroke at 100cpm, 80psi

**APPLICATIONS**

Pharmaceutical	Cosmetics	Food	General
<ul style="list-style-type: none"> <li>• Medicine</li> <li>• Culture Media</li> <li>• Biologicals</li> <li>• Antibiotics</li> <li>• Cough Syrup</li> </ul>	<ul style="list-style-type: none"> <li>• Perfume</li> <li>• Creams</li> <li>• Lotions</li> <li>• Shampoos</li> <li>• Oils</li> <li>• Mouthwash</li> <li>• Nail Lacquer</li> <li>• Moisturizer</li> <li>• Skin Cleanser</li> <li>• Make-up Remover</li> </ul>	<ul style="list-style-type: none"> <li>• Ketchup</li> <li>• Vinegar</li> <li>• Honey</li> <li>• Butter</li> <li>• Coffee</li> <li>• Cream</li> <li>• Jelly</li> <li>• Sauces</li> <li>• Juices</li> <li>• Puddings</li> </ul>	<ul style="list-style-type: none"> <li>• Acids</li> <li>• Alkalines</li> <li>• Reagents</li> <li>• Inks</li> <li>• Paints</li> <li>• Glues/Adhesives</li> <li>• Battery Electrolyte</li> <li>• Lighter Fluids</li> <li>• Oils</li> <li>• Solvents</li> </ul>



**HIBAR**  
SYSTEMS LIMITED

*The Liquid Dispensing Specialists*

## IN-LINE CONTINUOUS MOTION FILLING SYSTEMS



**HIBAR'S IN-LINE CONTINUOUS MOTION FILLING SYSTEMS** are designed with performance and versatility in mind. The compact "Walking Beam" design, together with our innovative dual screw bottle feeding is capable of filling bottles at rates up to 300 bottles/min. With one simple adjustment, the integrated "Universal" dual screw system is able to handle a wide range of bottle sizes with no change parts required.

### IN-LINE CONTINUOUS MOTION FILLING SYSTEMS FEATURES

- Innovative design dual-feed screw handling system for a wide range of bottle/container shapes and sizes.
- High speed bottle filling speeds of up to 300 bottles/min within a compact envelope.
- Hibar mobile dispensing module for easy cleaning, service and product change over.
- Integral, synchronized, vertical nozzle movement for "bottom-up" filling of high-viscosity products.
- Provision for integration of Hibar positive shut-off fill tubes for drip-free filling of "stringy" liquids.
- Special system configurations are available to suit various environmental requirements; ie. explosion-proof, hot fill, nitrogen blanket.
- Integrated operator touch-screen with colour graphics interface and state of the art PLC controls for easy system operation.
- Self contained, stand-alone design makes intergration with bottle feeding, capping and labeling systems simple. Contact Hibar for details.

[www.hibar.com](http://www.hibar.com)

IN-LINE CONTINUOUS MOTION FILLING SYSTEMS SPECIFICATIONS AND APPLICATIONS



Provision for Servo Motor Controlled Bottom/Up Fill Motion for high viscosity products or foamy products.



Heated Filling Systems are available, utilizing sealed heated chambers or electronic cartridge heaters.



Mobile Dispensing Module for easy cleaning and product change over.



Filling in a Nitrogen Atmosphere with Integrated Capper

APPLICATIONS

Cosmetics		Food		Pharmaceutical	General	
• Mascara	• Shampoos	• Salad Dressing	• Juices	• Medicine	• Toothpaste	• Abrasive Kitchen/ Bathroom Cleaner
• Exfoliant	• Antiperspirant	• Popcorn Oil	• Honey	• Cough Syrup	• Caulking	• Paints/Inks
• Lipstick	• Lip Gloss	• Ketchup/Mustard	• Butter	• Antibiotic	• Glues/Adhesives	• Tooth Whitener
• Creams	• Nail Lacquer	• Marmalade	• Margarine	• Blood Serum	• Grease/Oils	• Fluxes
• Lotions	• Foundation	• Sauces	• Relish	• Biological	• Zinc Gel	



**HIBAR**  
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## IN-LINE INTERMITTENT MOTION FILLING SYSTEMS



**HIBAR'S IN-LINE INTERMITTENT MOTION FILLING SYSTEMS** are designed to provide both economy and flexibility for customers with a diverse product range. An indexing system is used to transport containers in groups through the fill area. Quick change parts are available to accommodate product change-overs in minutes.

### IN-LINE INTERMITTENT MOTION FILLING SYSTEMS FEATURES

- Available with cross push, star wheel on pneumatic gating for indexing of containers.
- Modular Hibar Mobile Dispensing System for easy cleaning and service.
- Integral vertical nozzle movement for smooth bottom-up filling when required.
- Integrated colour graphical touchscreen operator interface and state of the art PLC to controls provide intuitive, operator-friendly system control.
- Provision to integrate Hibar positive shut-off fill tubes for drip-free filling.
- Special system configurations are available to suit a range of filling environments including purge atmospheres, explosion proof constructions or heated filling requirements.
- Programmable servo motor driven models are also available. Consult Hibar for details.

**IN-LINE INTERMITTENT MOTION FILLING SYSTEMS SPECIFICATIONS AND APPLICATIONS**



High Viscosity  
Make-up Filler  
with Star Wheel  
Indexing System

Heated Filler with Cross Push  
Container Indexing System



Shampoo Filling with  
a Pneumatic Gate  
Indexing System



Pharmaceutical  
Filling System

**APPLICATIONS**

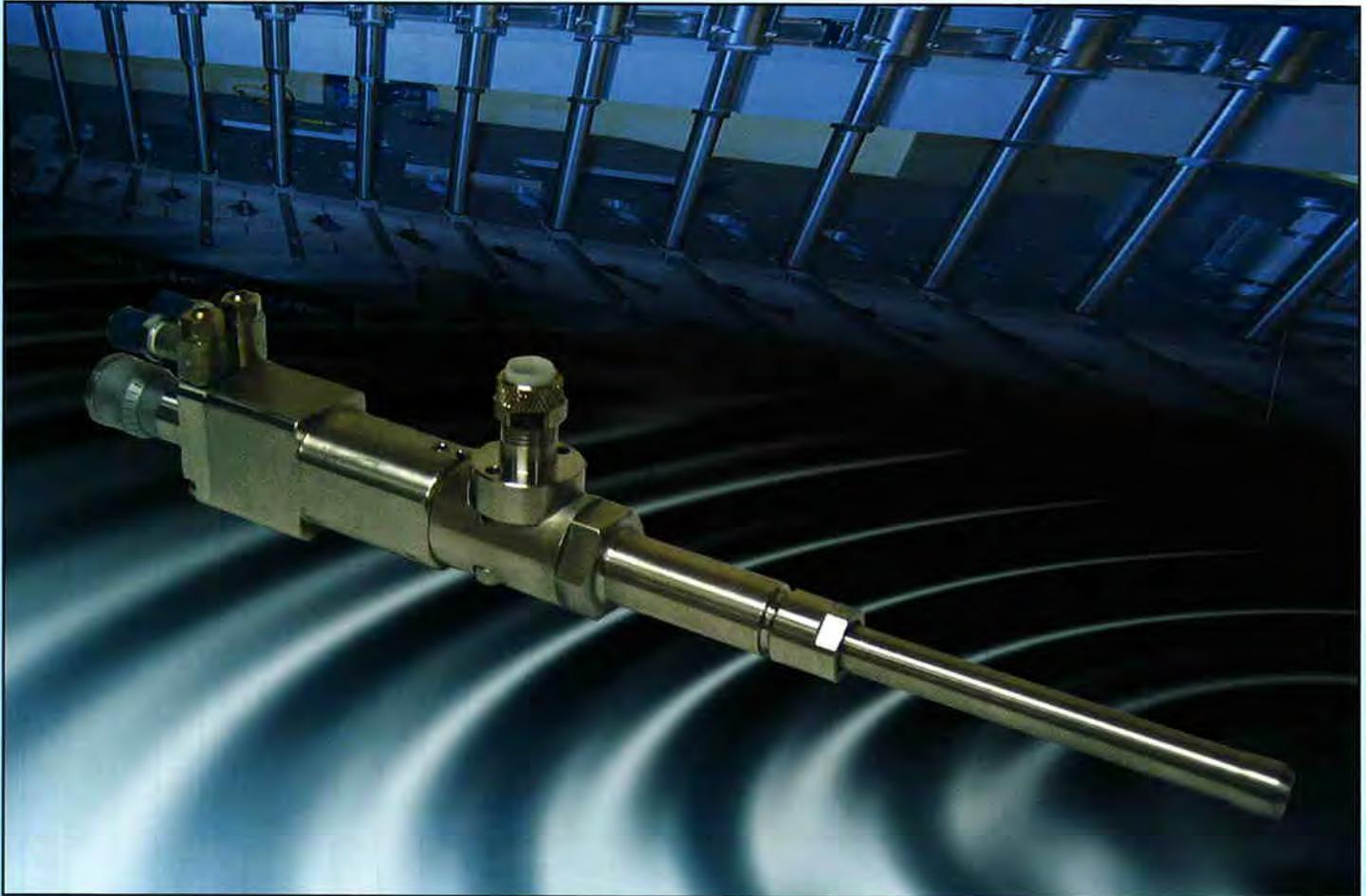
Cosmetics		Food		Pharmaceutical	General	
• Mascara	• Shampoos	• Salad Dressing	• Juices	• Medicine	• Toothpaste	• Abrasive Kitchen/ Bathroom Cleaner
• Exfoliant	• Antiperspirant	• Popcorn Oil	• Honey	• Cough Syrup	• Caulking	• Paints/Inks
• Lipstick	• Lip Gloss	• Ketchup/Mustard	• Butter	• Antibiotic	• Glues/Adhesives	• Tooth Whitener
• Creams	• Nail Lacquer	• Marmalade	• Margarine	• Blood Serum	• Grease	• Fluxes
• Lotions	• Foundation	• Sauces	• Relish	• Biological	• Oils	



**HIBAR**  
SYSTEMS LIMITED

**FT-1 SERIES**  
**POSITIVE SHUT-OFF**  
**FILL TUBE**

The **NEW** Hibar FT-1 Series Positive Shut Off Fill Tubes are ideally suited for drip free dispensing of "stringy" products or slurries found in food, cosmetic and pharmaceutical industries. With a wide range of available styles and lengths, the FT-1 fill tube can be customized to suit virtually any application.



### **FT-1 Series Fill Tube Features:**

- \* *Positive shut off, drip free dispensing.*
- \* *316L Stainless Steel construction.*
- \* *Wide range of styles & lengths for virtually any application.*
- \* *Easy to disassemble, clean and maintain.*
- \* *Compact design for easy mounting (1" pitch).*
- \* *Pneumatic drive with precise stroke adjustment and pneumatic flow control.*
- \* *Various inlet fitting styles and sizes available.*
- \* *Sanitary one-piece formed fill tube.*
- \* *Metal to metal shut off.*
- \* *Designed for long service life.*

*Hibar can help match a fill tube to your application*

HEAD OFFICE:  
35 POLLARD STREET  
RICHMOND HILL, ONTARIO  
CANADA L4B1A8

TEL: 905-731-2400  
FAX: 905-731-6035

*"The Liquid Dispensing Specialists"*

WEB: [www.hibar.com](http://www.hibar.com)  
EMAIL: [sales@hibar.com](mailto:sales@hibar.com)



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**CELEBRATING**

**50**

**YEARS OF EXPERIENCE**

**EXPERIENCE INNOVATIVE  
THINKERS AND PRODUCTS**



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