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ALLWEILER AG Schraubenspindelpumpen, Kreiselpumpen, Zahnradpumpen und Anlagen Screw Pumps, Centrifugal Pumps, Gear Pumps and Systems

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Exzenterschneckenpumpen,
Schlauchpumpen, Kreiskolbenpumpen und Mazeratoren
Progressing Cavity Pumps,
Peristaltic Pumps, Rotary Lobe
Pumps and Macerators

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Zenith 9000 Series Gear Pumps for Industrial Metering Applications

High performance in industrial applications:

- High accuracy
- Uniform metered flow
- Engineered solutions
- Active flowmeter concept
- Low cost of ownership
- Proven applications



Over the years Zenith has been distinguished as an innovator in the application of gear pump technology by a variety of industries and end-users.

Zenith Pumps offers a complete line of gear pumps and metering systems to handle all critical applications in the industrial production process.

At the heart of Zenith Pumps is the progressive manufacturing environment, which combines the most advanced technologies and production procedures with experienced engineering and computerized quality control.

Zenith® 9000 Series: Efficient and Versatile

Precise, pulseless, repeatable performance in a wide variety of industrial metering applications.

The Zenith 9000 Series was developed as a true precision metering gear pump for application into a variety of industrial processes. The design utilizes high AGMA standard external spur gears of optimum geometry, enclosed within a close tolerance housing assembly, resulting in a precise volume of fluid dispensed per shaft revolution.

The housing is constructed from a precision ground and lapped 3-plate assembly. The plate assembly is aligned with dowels to allow close control of operating clearances. This construction method in combination with several proprietary internal features is what ensures precise, pulseless and reliable flow under varying process conditions. Coupled with a pre-packaged integrated closed loop speed control and compact motor driver assembly (AC or DC), Zenith is able to provide the most precise and flexible metering gear pump on the market.







Series B-9000

Series C-9000

Series H-9000

Benefits and features:

- ► High accuracy stable repeatable flows are assured under varying conditions of temperature, viscosity and pressure.
- ▶ Uniform metered flow unique design offers virtually pulseless flow, without valves or flexible elements that add complexities, increase cost and hinder performance.
- ▶ Engineered solutions a variety of pump heads and driver combinations have been preconfigured to provide a range of standard installation options, meeting OSHA, UL, EC and DIN standards.
- Active flowmeter concept unparalleled mechanical precision, combined with closed loop accuracy, ensures exact volume per revolution without expensive flow meters.
- ► Low costs of ownership only three moving parts, and hardened abrasion resistant materials provide excellent wear, corrosion and self-lubricating performance.
- ▶ Proven applications years of practical application experience, backed by a technical staff with a variety of technical credentials eliminates the guesswork.



Zenith® 9000 Series Gear Pumps: **Varied Applications and Resistant Materials**

Zenith® B-9000 Series: **General-purpose industrial** duty pump of 400 series through hardened stainless steel

Pump head options

B-9000 Series: General-purpose industrial duty Constructed of through hardened 400 series stainless steel

Capacities (cc/rev): 0.05, 0.3, 0.6, 1.2, 2.4, 4.5, 9.0,

15, 30, 45, 90

Recommended speed: .05 to 30 cc/rev, up to 500 rpm

45 & 90 cc/rev, up to 300 rpm

up to 27,000 cc/min Flow range:

up to 7 gpm

Inlet pressure: 300 psi (20 bar) maximum **Outlet pressure:** 1000 psi (70 bar) maximum Differential pressure:

20 to 1000 psi (viscosity

dependent)

0° F (-18° C) minimum Temperature:

400° F (205° C) maximum (with magnetic coupling seal) 645° F (340° C) maximum (dependent on shaft seal

materials)

Seals:

single mechanical, double lip, packed or magnetic

clockwise (CW) facing drive shaft **Rotation:** metric thread or SAE 61 standard Port connections:

Optional port adapters: M12 X 1/4" NPT 0.05 - 2.4 cc/rev1/2" SAE X 1/2" NPT 4.5 - 9.0 cc/rev 3/4" SAE X 3/4" NPT 15 - 30 cc/rev 1-1/4" SAE X 1-1/4" NPT 45 - 90 cc/rev

Optional band heaters:

150 Watt, 115 VAC 0.05 - 2.4 cc/rev 325 Watt, 115 VAC 4.5 - 9.0 cc/rev 650 Watt, 230 VAC 15 - 30 cc/rev 45 - 90 cc/rev 1500 Watt, 230 VAC

C-9000 Series: Corrosive & poor lubricating fluids Constructed of hardened 316SS and compatible materials

Capacities (cc/rev): Recommended speed:

Flow range:

Temperature:

up to 1000 rpm up to 9,000 cc/min up to 2.4 gpm 300 psi (20 bar) paximum 1000 psi (70 bar) maximum

0.3, 0.6, 1.2, 2.4, 4.5, 9.0

Inlet pressure: **Outlet pressure:** Differential pressure:

20 to 1000 psi (viscosity dependent)

-40° F (- 40° C) minimum Temperature: 350° F (175° C) maximum Seals:

single mechanical, double lip, or magnetic

Rotation: clockwise (CW) facing drive shaft metric thread or SAE 61 standard Port connections:

Optional port adapters: M12 X 1/4" NPT 0.3 - 2.4 cc/rev 1/2" SAE X 1/2" NPT 4.5 - 9.0 cc/rev

Optional band heaters:

0.3 - 2.4 cc/rev 150 Watt, 115 VAC 4.5 - 9.0 cc/rev 325 Watt, 115 VAC

H-9000 Series: High temperature and abrasive fluids Constructed of through hardened high speed tool steels

Capacities (cc/rev): 0.3, 0.6, 1.2, 2.4, 4.5, 9.0, 15, 30, 45, 90

0.3 to 30 cc/rev, up to 500 rpm Recommended speed: 45 & 90 cc/rev, up to 300 rpm

up to 27,000 cc/min Flow range:

up to 7 qpm

Inlet pressure: 1000 psi (70 bar) maximum **Outlet pressure:** 2500 psi (175 bar) maximum Differential pressure: 20 to 2500 psi (viscosity

dependent)

32° F (0.0° C) minimum 950° F (510° C) max. (with packing seal and high temperature fasteners)

Seals:

single mechanical, double lip seal or packed configurations

clockwise (CW) facing drive shaft **Rotation:** metric thread or SAE 61 standard Port connections:

Optional port adapters: M12 X 1/4" NPT 0.3 - 2.4 cc/rev1/2" SAE X 1/2" NPT 4.5 - 9.0 cc/rev

15 - 30 cc/rev 3/4" SAE X 3/4" NPT 1-1/4" SAE X 1-1/4" NPT 45 - 90 cc/rev

Optional band heaters:

150 Watt, 115 VAC 0.3 - 2.4 cc/rev 325 Watt, 115 VAC 4.5 - 9.0 cc/rev 650 Watt, 230 VAC 15 - 30 cc/rev 1500 Watt, 230 VAC 45 - 90 cc/rev

9000 Series

The B-9000, C-9000 and H-9000 Series pump systems are designed for a wide variety of metering applications in the industry. Constructed from 400 series stainless steel or tool steel, they are highly abrasion and corosion resistant.

The B-9000 series pump systems are ideal for a wide variety of chemical metering applications. Constructed from 400 series stainless steel, this family of single stream pumps is ideal for mildly corrosive and/or abrasive fluids at process temperatures up to 700° F. The B-9000 metering pumps are rated to 1000 psi and flows to 27,000 cc/min.

The C-9000 series were designed specifically for corrosive and/or non-lubricating fluids. Years of research, development and testing have resulted in the use of special corrosion resistant materials. The pump systems are rated for flow rates up to 9,000 cc/min, temperatures up to 350° F, and pressures to 1000 psi.

The H-9000 series pump systems offer the same benefits as the B-9000 plus added protection against abrasion. Constructed of tool steel, the H-9000 metering pumps provides extra abrasion resistance and can be used at process temperatures up to 950° F.

Application samples from A to Z

Adhesives Additives Acids & Bases **Abrasives** Asphalt Beverages Biotech **Bottoms Bonding agents** Calcium stearate Candy Catalysts Chemicals Coatings Colorants Cosmetics Cereal Deionized water Dyes Defoamer

Epoxies Fibers Flavorings Fragrances Fuels Foodstuff Foams Gasketina Glycols Hot melts Inks **Inhibitors** Injection Juices Kerosene Lubricants Mineral oil Monomers

Detergents

Emulsions

Oils Oligomers Oxide slurries **Paints** Perfumes **Pharmaceuticals** Pill coatings **Polymers** Plastics **Polyurethanes** Plasticizers **Polyols Pigments** Potting Pitch Quartz slurries Resins **Sealants**

Silicones

Nutrients

Solvents Surfactants Slurries Spraying **Tackifiers** Tar Urethanes Varnish Viscose Vitamins Water solutions Water treatment Waxes Xylene Yeast Zinc oxide many more

Zenith® 9000 Series Metering Systems: Sectional Drawings and Dimensions

Zenith® C-9000 Series: For corrosive & poor lubricating fluids, constructed of hardened 316SS and compatible materials

9000 MD Systems (shown with ZeDrive™ DC Controller)

- 1/4 2 HP SCR DC drive
- 115 VAC, 1 phase (90 VDC motors)
- 230 VAC, 1 phase (180 VDC motors)
- Master or follower modesClosed loop PID control
- 4 engineering unit setpoints
- Joq
- 13 standard inputs
- 5 open collector outputs
- Keypad lockout
- Adjustable current limit
- RS-422 serial communications
- Optional analog I/O (12 bit)



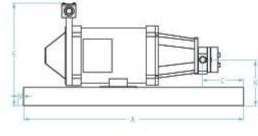
Note: All standard systems include NPT port adapters. See dimensions "L" and "Z" in the chart below for details. If the NPT adapters are removed, refer to individual pump drawings for information on port connections.

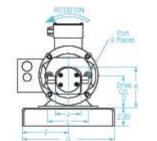
Note: ZVD AC controllers and motors are also available. For more information, please visit www.zenithpumps.com

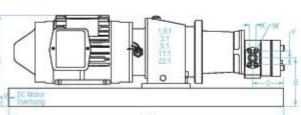


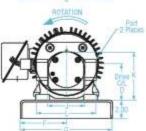
9000MD Direct drive magnetic coupling

9000MD Magnetic coupling with reducer









System configuration	Coupling torque	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	-1-	-J-	"K"	-1	" V"	"W"	"X"	-Y"	"Z"	NEMA IEC
Corniguration	torque	_ ^			U		'	G			J	IV.		· ·	**	_ ^	_ '		ILU
0.05 - 2.4 cc/rev	23 in-lb	24.00	5.01	4.50	5.47	11.20	5.00	10.00	22.00	8.00	2.76	4.38	4.45	N/A	N/A	N/A	N/A	1/4 NPT	56-C
1/2 HP direct drive		609.60	127.25	114.30	138.94	284.48	127.00	254.00	558.80	203.20	70.10	111.25	113.03	N/A	N/A	N/A	N/A	1/4 NPT	71
0.05 - 2.4 cc/rev	23 in-lb	30.00	5.47	4.50	5.94	11.70	5.00	10.00	28.00	8.00	2.76	4.85	4.45	N/A	N/A	N/A	N/A	1/4 NPT	56-C
1/2 HP with reducer		762.00	138.94	114.30	150.88	297.18	127.00	254.00	711.20	203.20	70.10	123.19	113.03	N/A	N/A	N/A	N/A	1/4 NPT	71
0.05 - 2.4 cc/rev	55 in-lb	24.00	5.01	4.50	5.47	11.20	5.00	10.00	22.00	8.00	2.76	4.38	4.45	N/A	N/A	N/A	N/A	1/4 NPT	56-C
1 HP direct drive		609.60	127.25	114.30	138.94	284.48	127.00	254.00	558.80	203.20	70.10	111.25	113.03	N/A	N/A	N/A	N/A	1/4 NPT	80
0.05 - 2.4 cc/rev	55 in-lb	30.00	5.47	4.50	5.94	11.70	5.00	10.00	28.00	8.00	2.76	4.85	4.45	0.09	N/A	N/A	N/A	1/4 NPT	56-C
1 HP with reducer		762.00	138.94	114.30	150.88	297.18	127.00	254.00	711.20	203.20	70.10	123.19	113.03	2.29	N/A	N/A	N/A	1/4 NPT	80
4.5 - 9.0 cc/rev	110 in-lb	24.00	4.84	4.00	5.47	11.20	5.00	10.00	22.00	8.00	3.94	4.81	6.50	N/A	M8 x 12DP	0.69	1.50	1/2 NPT	56-C
1/2 HP direct drive		609.60	122.94	101.60	138.94	284.48	127.00	254.00	558.80	203.20	100.08	122.17	165.10	N/A	M8 x 12DP	17.53	38.10	1/2 NPT	71
4.5 - 9.0 cc/rev	110 in-lb	30.00	5.28	3.44	5.94	11.70	5.00	10.00	28.00	8.00	3.94	5.25	6.50	N/A	M8 x 12DP	0.69	1.50	1/2 NPT	56-C
1/2 HP with reducer		762.00	134.11	87.38	150.88	297.18	127.00	254.00	711.20	203.20	100.08	133.35	165.10	N/A	M8 x 12DP	17.53	38.10	1/2 NPT	71
4.5 - 9.0 cc/rev	110 in-lb	24.00	4.84	4.00	5.47	11.20	5.00	10.00	22.00	8.00	3.94	4.81	6.50	0.06	M8 x 12DP	0.69	1.50	1/2 NPT	56-C
1 HP direct drive		609.60	122.94	101.60	138.94	284.48	127.00	254.00	558.80	203.20	100.08	122.17	165.10	1.52	M8 x 12DP	17.53	38.10	1/2 NPT	80
4.5 - 9.0 cc/rev	110 in-lb	30.00	5.28	3.44	5.94	11.70	5.00	10.00	28.00	8.00	3.94	5.25	6.50	0.17	M8 x 12DP	0.69	1.50	1/2 NPT	56-C
1 HP with reducer		762.00	134.11	87.38	150.88	297.18	127.00	254.00	711.20	203.20	100.08	133.35	165.10	4.32	M8 x 12DP	17.53	38.10	1/2 NPT	80
4.5 - 9.0 cc/rev	110 in-lb	24.00	4.84	4.00	5.47	11.20	5.00	10.00	22.00	8.00	3.94	4.81	6.50	3.36	M8 x 12DP	0.69	1.50	1/2 NPT	140TC
2 HP direct drive		609.60	122.94	101.60	138.94	284.48	127.00	254.00	558.80	203.20	100.08	122.17	165.10	85.34	M8 x 12DP	17.53	38.10	1/2 NPT	9
4.5 - 9.0 cc/rev	110 in-lb	30.00	5.28	3.44	5.94	11.70	5.00	10.00	28.00	8.00	3.94	5.25	6.50	2.77	M8 x 12DP	0.69	1.50	1/2 NPT	140TC
2 HP with reducer		762.00	134.11	87.38	150.88	297.18	127.00	254.00	711.20	203.20	100.08	133.35	165.10	70.36	M8 x 12DP	17.53	38.10	1/2 NPT	9

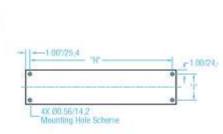
Standard Metering Systems (shown with ZVD AC Controller)

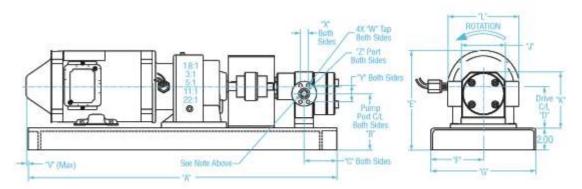
- 1/2 2 HP AC Vector Drive
- 230 VAC, 1 or 3 phase (1/2 2 HP)
- 460 VAC, 3 phase
- Closed loop PID control
- Engineering unit or frequency setpoint
- Jog
- 5 standard inputs
- 6 multifunction inputs
- 1 form C relay multifunction output
- 3 open collector multifunction outputs
- Password protection
- Adjustable current limit
- RS-485 Modbus serial communications
- Analog I/O

Note: All standard systems include NPT port adapters. See dimensions "L" and "Z" in the chart below for details. If the NPT adapters are removed, refer to individual pump drawings for information on port connections.

Note: ZeDrive[™] DC controllers and motors are also available. For more information, please visit www.zenithpumps.com







System/Dim.	Α	В	С	D	Е	F	G	Н	1	J	K	L	٧	W	Х	Υ	Z	NEMA IEC
1/2 hp	28.00	5.28	3.39	3.74	9.00	4.75	9.50	26.00	7.50	2.76	4.65	4.40	0.17	N/A	N/A	N/A	1/4 NPT	56C
.05-2.4 cc/rev*	711.2	134.1	86.1	95.0	228.6	120.7	241.3	660.4	190.5	70.1	118.1	111.8	4.3	N/A	N/A	N/A	1/4 NPT	71
1/2 hp	28.00	5.11	2.98	4.11	9.00	4.75	9.50	26.00	7.50	3.94	5.07	6.44	0.17	M8 x 12DP	0.69	1.50	1/2 NPT	56C
4.5-9 cc/rev*	711.2	129.8	75.7	104.4	228.6	120.7	241.3	660.4	190.5	100.1	128.8	163.6	4.3	M8 x 12DP	17.5	38.1	1/2 NPT	71
1 hp	36.00	5.86	8.22	4.51	10.01	5.00	10.00	34.00	8.00	3.94	5.82	6.44	N/A	M8 x 12DP	0.69	1.50	1/2 NPT	56C
4.5-9 cc/rev*	914.4	148.8	208.8	114.6	254.3	127.0	254.0	863.6	203.2	100.1	147.8	163.6	N/A	M8 x 12DP	17.5	38.1	1/2 NPT	80
2 hp	36.00	5.86	8.22	4.51	10.01	5.00	10.00	34.00	8.00	3.94	5.82	6.44	3.37	M8 x 12DP	0.69	1.50	1/2 NPT	145TC
4.5-9 cc/rev*	914.4	148.8	208.8	114.6	254.3	127.0	254.0	863.6	203.2	100.1	147.8	163.6	85.6	M8 x 12DP	17.5	38.1	1/2 NPT	90
1/2 hp	36.00	5.19	7.63	4.11	9.61	5.00	10.00	34.00	8.00	5.00	5.69	7.50	N/A	M10 x 22DP	0.88	1.88	3/4 NPT	56C
15-30 cc/rev**	914.4	131.8	193.8	104.4	244.1	127.0	254.0	863.6	203.2	127.0	144.5	190.5	N/A	M10 x 22DP	22.4	47.8	3/4 NPT	71
1 hp	36.00	5.60	7.55	4.51	10.01	5.00	10.00	34.00	8.00	5.00	6.10	7.50	N/A	M10 x 22DP	0.88	1.88	3/4 NPT	56C
15-30cc/rev**	914.4	142.2	191.8	114.6	254.3	127.0	254.0	863.6	203.2	127.0	154.9	190.5	N/A	M10 x 22DP	22.4	47.8	3/4 NPT	80
2 hp	36.00	5.60	7.55	4.51	10.01	5.00	10.00	34.00	8.00	5.00	6.10	7.50	N/A	M10 x 22DP	0.88	1.88	3/4 NPT	145TC
15-30 cc/rev**	914.4	142.2	191.8	114.6	254.3	127.0	254.0	863.6	203.2	127.0	154.9	190.5	N/A	M10 x 22DP	22.4	47.8	3/4 NPT	90
1 hp	36.00	6.14	6.12	5.38	10.89	5.00	10.00	34.00	8.00	6.89	7.59	9.37	N/A	M12 x 24DP	1.19	2.31	1-1/4 NPT	56C
45-90 cc/rev**	914.4	156.0	155.4	136.7	276.6	127.0	254.0	863.6	203.2	175.0	192.8	238.0	N/A	M12 x 24DP	30.2	58.7	1-1/4 NPT	80
2 hp	36.00	6.14	6.12	5.38	10.89	5.00	10.00	34.00	8.00	6.89	7.59	9.37	N/A	M12 x 24DP	1.19	2.31	1-1/4 NPT	145TC
45-90 cc/rev**	914.4	156.0	155.4	136.7	276.6	127.0	254.0	863.6	203.2	175.0	192.8	238.0	N/A	M12 x 24DP	30.2	58.7	1-1/4 NPT	9

^{*}Available for B-9000, C-9000 and H-9000, **Available for B-9000 and H-9000

>6

Zenith[®] 9000 Series Gear Pumps: High Performance and Reliability

Zenith® H-9000 Series: High temperature and abrasive fluids, constructed of through hardened high speed tool steels

Technical data

		B-9000	C-9000	H-9000
Typical service	General chemical	+	_	_
	Corrosive/Poor lubricity	_	+	_
	Abrasive/High temperature	_	_	+
Materials	400 series stainless steel	+	_	_
	316 stainless steel	_	+	_
	Tool steel	_	_	+
Outlet pressure	≤ 1000 psi	+	+	+
	1000 ≤ 2500 psi	_	_	+
Inlet pressure	≤ 300 psi	+	+	+
	300 ≤ 1000 psi	_	_	+
Temperature	≤ 350 F	+	+	+
	≤ 645 F	+	_	+
	≤ 950 F	_	–	+
Viscosity	≤ 1 cps	_	+	_
	≥ 1 cps	+	+	+
Flow rate	≤ 9000 cc/min	+	+	+
	≤ 27000 cc/min	+	–	+
Lubricity	Abrasive (Tio2 etc.)	_	–	+
	Poor (solvents etc.)	_	+	_
	Good (polyols etc.)	+	+	+
	Excellent (oils etc.)	+	+	+
рН	Low (< 7)	_	+	-
	Neutral (7)	+	+	+
	High (> 7)	+	+	_

Operating speed

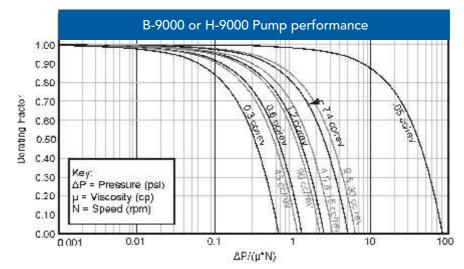
Operating	conditions	Suggested maximum speed (rpm)				
Lubricity	Viscosity	B-9000	C-9000	H-9000		
Excellent	< 1,000 cps	< 500	< 1000	< 500		
Good to excellent	1000 < 10,000 cps	< 300	< 500	< 300		
Poor to excellent Abrasive (consult Zenith)	> 10,000 cps	< 150	< 150	< 150		
	> 1 cps	—	—	< 75		

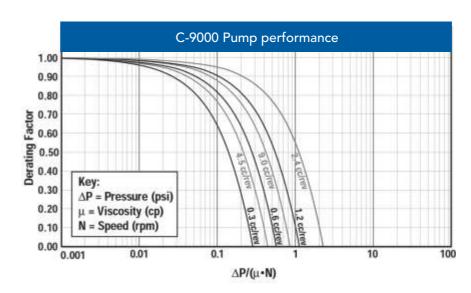
Reducer ratio

	Pump spe	ed range with	1800 rpm mot	or, 20:1 turndo	own	
Speed range (n - N)	90 - 1800*	50 - 1000	30 - 600	18 - 360	8 - 164	4 - 82
Reducer ratio	1:1 (direct)	1.8:1	3:1	5:1	11:1	22:1

^{*} Note: maximum recommended pump speed is 1000 rpm or less.

Pump performance





Maximum pump torque

Capacity (cc/rev)	K ₁ /K ₂	K ₃ /K ₄	Max. torque (in-lbs/NM)
0.05	0.0005/0.85	0.0008/0.096	7.5/.85
0.3	0.003/2.11	0.004/0.24	90/10
0.6	0.006/2.34	0.010/0.26	350/40
1.2	0.012/2.82	0.018/0.32	350/40
2.4	0.023/3.78	0.037/0.43	350/40
4.5	0.044/6.85	0.070/0.77	880/100
9.0	0.087/8.56	0.141/0.97	880/100
15.0	0.146/14.66	0.233/1.66	1100/125
30.0	0.291/18.57	0.468/2.10	1100/125
45.0	0.437/32.78	0.701/3.70	2400/275
90.0	0.873/30.61	1.404/3.46	2400/275

Inlet pressure

cc/rev	W1	W2
0.3	4.29E-06	2.32E-06
0.6	1.93E-06	2.47E-06
1.2	1.21E-06	2.77E-06
2.4	9.34E-07	3.38E-06
4.5	3.00E-07	3.46E-07
9.0	2.24E-07	4.19E-07
15.0	1.11E-07	7.47E-08
30.0	8.61E-08	9.28E-08
45.0	3.38E-08	1.65E-08
90.0	2.49E-08	2.02E-08

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Gear Pumps Information Request

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