

Technical Pump Quotation

Quote: JB-021197 5/10/2017 Date: General Pump & Machinery Project:

NM090SY02S08B

	U/U/U/N/SC/N/3005/CWWIK									
nominal	minimum	maximum								
	Not Given									
Not Given										
Not Given										
Not Given										
Not Given										

Product: Content Name / Composition Product temperature ٥F Specific gravity approx. Particle size in pH value approx. Solids content (w/w) %TS Not Given approx. Dynamic viscosity approx. **CPS** Not Given

[&]quot;Materials of construction are only recommended based on the information provided. Customer needs to verify materials will be compatible with the process fluid or application."

Application details:		Content	
Flow rate (Q)	approx.	GPM	
Differential pressure		PSI	
Suction pressure	assumed	PSI	
Discharge pressure	approx.	PSI	
Pump operating speed	approx.	RPM	
Sliding velocity	approx.	ft./s	
Frequency	approx.	Hz	
Power required at drive shaft	approx.	HP	
Running torque	approx.	ft./lbs.	
Starting torque	approx.	ft./lbs.	

Assembly specification Installation	: Horizontal
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General operating conditions

Installation area Inside Approx. 20°C / 70 F Ambient Temperature up to 75% Humidity Application type Continuous operation Operating hours per day

Service voltage 3ph, 60hz, 230/460V

NIL System I RAL 7031 NETZSCH gray **Painting** Coating system NCS 355B60G teal (stator only)

Operating and Maintenance Instructions

Standard documentation in accordance with the 98/37/EG Machinery Directive.

Special documentation is available on request and would be charged for.

Download the Operating and Maintenance Instructions and cover document for each of

your specific pumps at www.netzschusa.com/OM

You may use this new conveniently located tool as often as you like.

Paper copies are still available at a cost of \$25.00 per manual.

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Pump: NM090SY02S08B



Picture is for reference only and may not be exact model specified

Characteristics and benefits of the NEMO® SY pump:

Reliable and sophisticated construction

Modular construction system

4 different stator – rotor geometries available (for optimal meeting your request)

Low investment and operating costs

Low Maintenance expenses

High Product life

General characteristics	
name plate on the pump	in English (Stainless steel)
direction of rotation	To the left, counter clockwise(as viewed from drive end)

Pump Pedestal	Cast Iron	
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Pump housing / End connection

Housing material Cast Iron

Housing Connection position Vertically Upwards (as viewed from drive end)

Function of housing connection Suction Connection
Function of end connection Discharge Connection

Suction Connection design Standard

Nom. dia. & pressure for pump housing 6" 125# ANSI Flange

Discharge Connection design standard

Nom. dia. & pressure of discharge flange 6" 125# ANSI Flange

Housing seals FKM

Shaft seal Design Packing with lantern ring and grease connection Shaft seal type Gland packing Teflon / kevlar TYPICAL PACKING GLAND with lantern ring

Rotating parts

Rotating parts materials AISI 420 - Chrome Steel

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NETZSCH Pumps North America, LLC Exton, PA. 19341



Joint type

Joint sealing material

Joint lubrication

SM Pin Joint

Buna/316 Stainless Steel

Mineral Oil

Rotor

Rotor material SAE 1045 VCP - Chrome Plated Steel

Rotor Size Standard
Temperature range 32-84°F

Stator

Stator material NEMOLAST® S61M (Buna)

Drive

Drive not supplied

Baseplate:	Baseplate not supplied

Approximate Weights – (lbs.)	
Bareshaft Pump	682

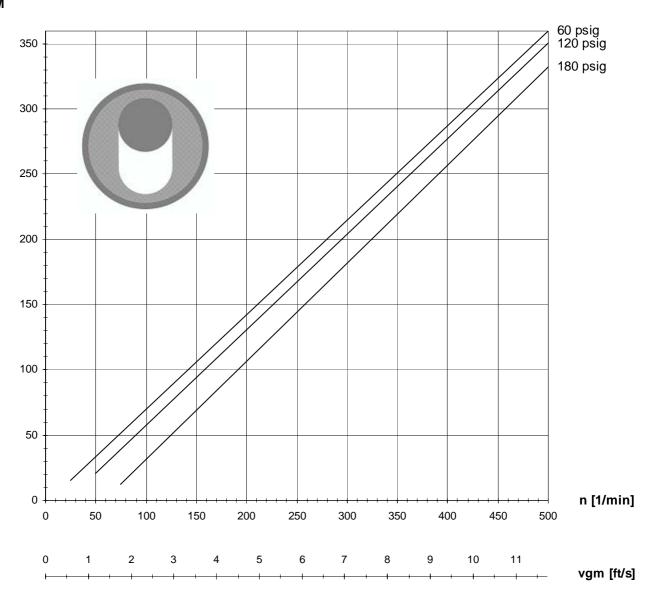
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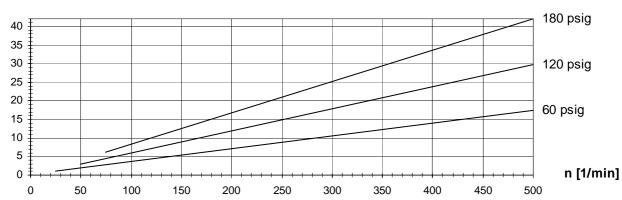
elastomer quality: standard



GPM



HP

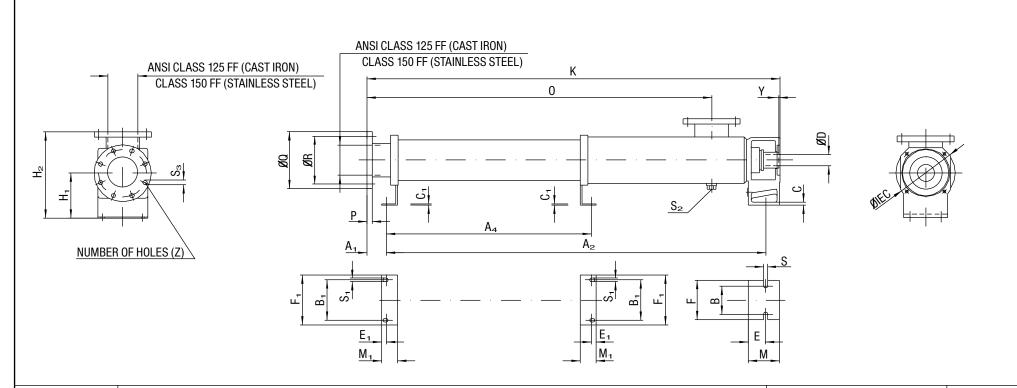


starting torque T(L) = 451,4 lbft

pressure	Т
60 psig	189,44 lbft
120 psig	313,76 lbft
180 psig	446,96 lbft

Valid for water (1 cP) at 20 °C (70 °F). Tolerances are in accordance with VDMA 24284 (+10%/-5%).

Rev.: 03/2007 Technical changes reserved.



TYPE		BASIC DIMENSIONS															PIP	SHAFT END											
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $														ANSI	P	Q	R	S_3	Z	Dmin Dmax	IEC							
NM045BY <u>02S08</u> 01L04	84	1018	_	115	115	10	6	35	20	150	150	132	262	1149	80	55	905	14	11	NPT 3/4"	5	3"	19.1	190.5	152.4	19	4	20 32	200 250
NM053BY <u>02S08</u> 01L04	89	1186	-	115	125	10	6	42	25	150	160	160	310	1320	85	60	1081	14	13.5	NPT 3/4"	5	3"	19.1	190.5	152.4	19	4	24 35	200 250
NM063BY <u>02S08</u> 01L04	119	1396	-	115	145	10	6	50	25	150	180	170	335	1557	90	70	1282	14	13.5	NPT 3/4"	8	4"	23.9	228.6	190.5	19	8	25 45	200 250
NM076BY $\frac{02S08}{01L04}$	129	1630	_	125	195	12	6	60	25	175	230	200	400	1801	100	70	1481	18	13.5	NPT 1"	8	6"	25.4	279.4	241.3	22.2	8	30 55	250 300
NM090BY 02S08 01L04	122	1867	_	125	200	15	8	90	25	175	250	225	435	2077	176	80	1709	18	17.5	NPT 1"	8	<mark>6"</mark>	25.4	279.4	241.3	22.2	8	35 55	250 300
NM105BY <u>02S08</u> 01L04	133	2229	1265	160	220	18	8	95	25	210	270	250	470	2442	173	80	2082	18	17.5	NPT 1"	10	6"	25.4	279.4	241.3	22.2	8	40 65	250 300
NM125BY <u>02S08</u> 01L04	134	2647	1506	200	250	18	8	100	30	250	300	280	535	2876	193	100	2471	18	17.5	NPT 1"	10	8"	28.4	342.9	298.4	22.2	8	55 80	300 350 400

All dimensions are in mm. All dimensions are subject to change without notice.

Flanges are ANSI to inch standards. All flanges are flat faced.

All pumps are Thru-bolt Construction. Thru-bolts not shown for clarity.

For weights, use equivalent weights for SY pumps.



NEMO PUMP (WP)

RANGE NM --- B 02S08 01L04

DRAWING NUMBER

NDB4908994