

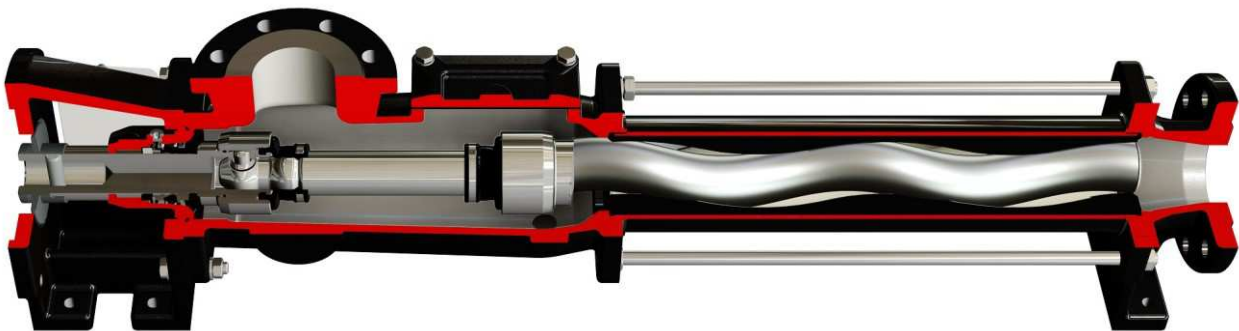
Item 01

PROGRESSIVE CAVITY PUMP mod.: DN 2L1 *DIAMOND SERIES*

Flanged Industrial Series

The Flanged Industrial Series is the basis of the Diamond series. The robust cast casings, also in the stainless steel model, with large inspection ports included, make this an ideal product for the toughest applications. The Diamond DN and JN series are the best solution for a wide range of fluid pumping industries. They are synonymous with sturdiness, reliability, performance and application flexibility. Available with UNI, DIN and ANSI flanged and GAS BSP threaded connections.

DN SERIES



MONOBLOC VERSION

The drive system is coupled directly to the pump by means of a flange. This solution is extremely economical and compact, considerably reduces installation costs and simplifies maintenance. The stress generated by the hydraulic part is supported by the drive system itself.

PROGRESSIVE CAVITY PUMP mod.: DN 2L1

DIAMOND SERIES

Classification:

Series ID - Industrial sector

Wetted casing and rotating parts material:

Casing in G25 - S275JR / W. 1.0044 and rotating parts in AISI 420B / W. 1.4028 - Carbon Steel

FLUID CHARACTERISTICS

Pumped fluid:	MUD
Viscosity:	n.a. cps
Solids concentration:	n.a. %
Solids size:	n.a. mm
Specific gravity:	n.a. kg/dm ³
Abrasiveness:	Not abrasive
PH:	neutral
Working temperature:	ambient °C

OPERATING CONDITIONS

Service:	8 h/gg
Rotation:	Counterclockwise viewed from the motor
Differential pressure:	2 bar(g)
Suction pressure:	Flooded
Design pressure:	6 bar
Max. power absorbed:	1 KW
Starting Torque:	37 Nm
Solid passage:	14 soft 7 hard mm
Sound power level:	Not exceed 85 dB(A) measured at 1 m distance at the complete machine

	Nom.	Min.	Max.	
Rotation speed:		114	596	rpm
Frequency:	60			Hz
Flow:		0.77	4	m ³ /h

CONSTRUCTION AND PUMP MATERIALS

Installation:	Horizontal
Pump body:	UNI 2278/EN 1092 - PN 16 DN040 Standard execution with drain plug G3/8" and with inspection port Cast Iron G25
Outlet connection:	UNI 2278/EN 1092 - PN 16 DN040 Standard connection Cast Iron G25
Stator:	NBR
Rotor:	Execution Standard AISI 420B / W. 1.4028 induction hardened 55-59 HRC
Joint:	Standard execution Rubber sleeve NBR black food grade
Transmission shaft:	Standard execution AISI 316L / W. 1.4404
Drive shaft:	Standard Execution Ø24 AISI 420B / W. 1.4028
Seal housing:	Single-acting mechanical seal - GOK9 Cast iron G25
Seal:	Model 52 Ø35 elastomer bellows, single cylindrical springs/not balanced,

Lantern:	bidirectional SIC/SIC/FPM/316 Standard execution block construction with shaft seal protections Cast iron G25
Painting:	Antirust and anti-oil immersion primer $\geq 20\mu\text{m}$ Two coats finishing bicomponent acrylic based $\geq 80\mu\text{m}$ Black +silver (std) RAL 9005+9006

MOTORIZATION

Type:	Planetary variable speed IEC with electric motor IEC	
Group:	<u>Model</u> MKF20/1N P90 F200 Ø24 B5 i= 2	<u>Brand</u> Siti
Motor:	Delphi 90L 1,5KW 4P 3Ph IE3 B5 IP55 (STD) 1438 rpm 230/400/50V 50Hz 1726 rpm 260/440/60V 60Hz Temperature class F	Motive

ACCESSORIES

Accessories:	Carbon steel S235JR / W. 1.0037 baseplate
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