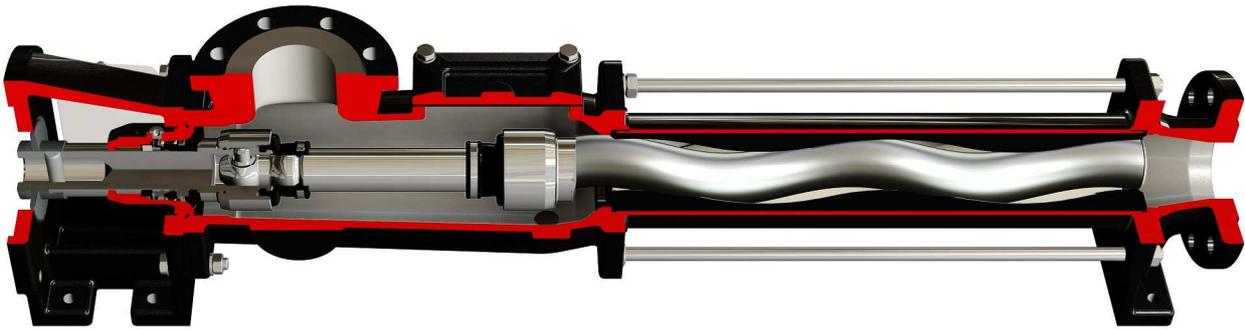


Item 01**PROGRESSIVE CAVITY PUMP mod.: DN 4L1** *DIAMOND SERIES***Flanged Industrial Series**

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 4L1

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 - S275JR / W. 1.0044

FLUID CHARACTERISTICS

Pumped fluid:	MUD
Viscosity:	- cps
Solids concentration:	2-3 %
Solids size:	- mm
Specific gravity:	- kg/dm ³
Abrasiveness:	Not abrasive
PH:	NEUTRO
Working temperature:	AMBIENTE °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:	1.3 KW
Torque:	43 Nm
Solid passage:	18 soft 9 hard mm
Sound power level:	Not exceed 85 dB(A) measured at 1 m distance at the complete machine

	Nom.	Min.	Max.	
Rotation speed:	510			rpm
Frequency:	60			Hz
Flow:	7			m ³ /h

CONSTRUCTION AND PUMP MATERIALS

Installation:	Horizontal
Pump body:	UNI 2278 - PN 16 DN050 Standard execution with drain plug G3/8" and with inspection port Cast Iron G25
Outlet connection:	UNI 2278 - PN 16 DN050 Standard connection Cast Iron G25
Stator:	NBR
Rotor:	Standard execution AISI 420B / W. 1.4028 induction hardened 55-59 HRC
Joint:	Standard execution Rubber sleeve NBR black food grade
Transmission shaft:	Standard execution AISI 420B / W. 1.4028
Drive shaft:	Standard execution Ø24 with plug-in shaft AISI 420B / W. 1.4028
Seal housing:	Standard execution for single mechanical seal - G0K9 Cast iron G25

Seal:	Model 52 Ø35 elastomer bellows, single cylindrical springs/not balanced, bidirectional SIC/SIC/FPM/304
Coupling:	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:	Coaxial gearbox IEC with electric motor IEC	
Group:	Model RCV 281NF P100 F200 Ø24 B5 IEC $i=3,38$ - 428 rpm (4P)	Brand Varmec
Motor:	Delphi 100LA 2,2KW 4P 3Ph IE2 B5 IP55 (STD) 1435 rpm 230V / 400V 50Hz 1722 rpm 260V / 440V 60Hz Temperature class F	Motive

ACCESSORIES

Accessories:	Carbon steel S235JR / W. 1.0037 baseplate
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