

GENERAL PRODUCT CATALOGUE

SETTING
INNOVATIVE
STANDARD



PRODUCT HISTORY

1979

Our products technical heritage has the roots on 1979 when the first peripheral regenerative turbine magnetic driven pumps was designed by Adriano Mischiatti and until today, we never stopped developing innovative.

ENERGY EFFICIENCY PRODUCT FEATURE

Patented
Magnetic drive
Metallic - Lined Pump
Hybrid Isolation shell
Carbon fiber-PTFE
Carbon fiber-HC276



PRODUCT DEVELOPMENT

M Pumps standard
Magnetic drive
Peripheral
Plastic - Metallic
MT | MTA



PRODUCT DEVELOPMENT

API 685
Magnetic drive
Centrifugal OH2
Metallic
MCA-API



PRODUCT UPDATE

ISO2858 – ISO15783
Magnetic drive
Centrifugal
Metallic
CN MAG-M BF | CC



HIGH PRESSURE MAG DRIVE EVOLUTION

M Pumps standard
Magnetic drive
Peripheral Multistage
Plastic - Metallic
CT MAG-MS



1979

1982

1992

1995

2006

2008

2009

2011



PRODUCT DEVELOPMENT

ISO2858 pump
Magnetic drive
Centrifugal
Metallic
MCA



PRODUCT DEVELOPMENT

API 685
Magnetic drive
Centrifugal BB5
Metallic
MCA-MS



PRODUCT DEVELOPMENT

M Pumps
standard
Magnetic drive
Centrifugal
Lined PFA
C MAG-PL CC



SUPERCRITICAL CO₂ APPLICATION

API 685
Magnetic drive
Centrifugal OH2
Metallic
CHN MAG-M 350-500
500kW- 250 bar

1992

Our experience in one of the most demanding industry, the **Oil&Gas**, started with a **API 685 pump**.

**2012-2023
GREEN HYDROGEN
ELECTROLYZER**

ISO2858 – ISO15783
Magnetic drive
Centrifugal
Metallic HC276
CN MAG-M CC
120 units



**GREEN HYDROGEN
ELECTROLYZER**

M Pumps standard
Magnetic drive
Centrifugal
Plastic - Metallic
CM MAG-M



2023

Since 2003 when MPumps was founded, we further pushed to innovative standard **Multiple ground breaking achievements** and innovations marked a turning point in fluid handling, ensuring leak-free operation, high reliability and outstanding MTMB.

**API 610 AND 685
DELIVERY**

API 610 pump
Magnetic drive
Centrifugal OH2
Metallic
CN MAG-M API
40 units



**CRITICAL
APPLICATION
USA MARKET**

API 685 pump
Magnetic drive
Side Channel
Metallic Multistage
SC MAG-M



**PRODUCT
DEVELOPMENT**

API 685 pump
Magnetic drive
Peripheral High Pressure
Metallic Multistage
T MAG XPM



2012

2014

2018

2021

2022

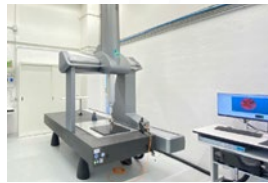
2023

2024



**PRODUCT
DEVELOPMENT**

ISO15783 - ANSI B73.3
Magnetic drive
Centrifugal
Lined PFA
CL MAG-M BF | CC



**PROCESS UPGRADE
QUALITY**

*All Products and Parts
Quality control room
Investing to provide
higher quality standard.*



**PRODUCT
DEVELOPMENT**

M Pumps standard
Mechanical Seal
Peripheral Multistage
Plastic - Metallic
CT SEAL-MS



**PRODUCT
DEVELOPMENT**

API 685 pump
Magnetic drive
Centrifugal Multistage
Metallic
CB MAG-MS

2024

MPumps Manufacturing journey reflects resilience, innovation, and a commitment to excellence. As we look ahead, we remain dedicated to **break boundaries and shaping the future of fluid handling.**

PRODUCT PORTFOLIO

INDUSTRY & PROCESS

CN MAG-M

ISO 5199-15783 | CENTRIFUGAL | SINGLE STAGE



SPECIFICATIONS

Sealing Type	MAG DRIVE
Flow	4000 m ³ /h
Head	220 m
Temp. Min.	-120 °C
Temp. Max.	300 °C
Des. Pressure	25 bar
Materials	Metallic

FEATURES



Executions: Close coupled - Bearing frame

CN SEAL-M

ISO 5199 | CENTRIFUGAL | SINGLE STAGE



SPECIFICATIONS

Sealing Type	MECH. SEAL
Flow	4000 m ³ /h
Head	225 m
Temp. Min.	-28 °C
Temp. Max.	150 °C
Des. Pressure	16 bar
Materials	Metallic

FEATURES



Executions: Bearing frame

CL MAG-M | CL MAG-M ANSI

ISO 5199-15783 / ASME B 73.3 | CENTRIFUGAL
| SINGLE STAGE



SPECIFICATIONS

Sealing Type	MAG DRIVE
Flow	80 m ³ /h
Head	82 m
Temp. Min.	-60 °C
Temp. Max.	180 °C
Des. Pressure	16 bar
Materials	Lined PFA

FEATURES



Executions: Close coupled

CL SEAL-M

ISO 5199 | CENTRIFUGAL | SINGLE STAGE



SPECIFICATIONS

Sealing Type	MECH. SEAL
Flow	80 m ³ /h
Head	82 m
Temp. Min.	-40 °C
Temp. Max.	150 °C
Des. Pressure	16 bar
Materials	Lined PFA

FEATURES



Executions: Bearing frame

CN MAG-M ANSI

ASME B 73.3 | CENTRIFUGAL | SINGLE STAGE



SPECIFICATIONS

Sealing Type	MAG DRIVE
Flow	180 m ³ /h
Head	130 m
Temp. Min.	-120 °C
Temp. Max.	300 °C
Des. Pressure	25 bar
Materials	Metallic

FEATURES



Executions: Close coupled - Bearing frame

CI MAG-M

ISO 2858 | CENTRIFUGAL | SINGLE STAGE



SPECIFICATIONS



Sealing Type	MAG DRIVE
Flow	60 m ³ /h
Head	45 m
Temp. Min.	-40 °C
Temp. Max.	180 °C
Des. Pressure	16 bar
Materials	Metallic



FEATURES







Executions: Close coupled

FEATURES LEGEND

-  High Temperature
-  Low Temperature

-  Low Flow
-  Explosion Proof

-  High Pressure
-  Low NPSH

-  Fluid with Gas
-  Hydrogen

T MAG-M

PERIPHERAL REGENERATIVE | SINGLE STAGE



SPECIFICATIONS	
Sealing Type	MAG DRIVE
Flow	13 m ³ /h
Head	124 m
Temp. Min.	-40 °C
Temp. Max.	180 °C
Des. Pressure	50 bar
Materials	Metallic

FEATURES

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Executions: Close coupled

T MAG-P

PERIPHERAL REGENERATIVE | SINGLE STAGE



SPECIFICATIONS	
Sealing Type	MAG DRIVE
Flow	15 m ³ /h
Head	60 m
Temp. Min.	-30 °C
Temp. Max.	90 °C
Des. Pressure	5 bar
Materials	Plastic PP/PVDF

FEATURES

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Executions: Close coupled

CT MAG-M

CENTRIFUGAL & PERIPHERAL REGENERATIVE | SINGLE STAGE



SPECIFICATIONS	
Sealing Type	MAG DRIVE
Flow	25 m ³ /h
Head	250 m
Temp. Min.	-120 °C
Temp. Max.	300 °C
Des. Pressure	40 bar
Materials	Metallic

FEATURES

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Executions: Close coupled

CT MAG-M/S

CENTRIFUGAL & PERIPHERAL REGENERATIVE | MULTI STAGE



SPECIFICATIONS	
Sealing Type	MAG DRIVE
Flow	25 m ³ /h
Head	550 m
Temp. Min.	-120 °C
Temp. Max.	300 °C
Des. Pressure	50 bar (100 bar)
Materials	Metallic

FEATURES

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Executions: Close coupled

CM MAG-M

SUB ISO 15783 | CENTRIFUGAL | SINGLE STAGE



SPECIFICATIONS	
Sealing Type	MAG DRIVE
Flow	35 m ³ /h
Head	36 m
Temp. Min.	-40 °C
Temp. Max.	180 °C
Des. Pressure	16 bar
Materials	Metallic

FEATURES

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Executions: Close coupled

C MAG-PL

M PUMPS STANDARD | CENTRIFUGAL | SINGLE STAGE



SPECIFICATIONS	
Sealing Type	MAG DRIVE
Flow	140 m ³ /h
Head	58 m
Temp. Min.	-30 °C
Temp. Max.	90 °C
Des. Pressure	16 bar
Materials	Lined PVDF/PP

FEATURES

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Executions: Close coupled

API 685 EXPERTISE

- Proficient in API 685 standards for sealless centrifugal pumps.
- Long service life: at least 20 years with at least 5 years of uninterrupted operation.
- Ensured compliance with industry regulations and customer requirements.

ENGINEERING

CN MAG-M API

API 685 | OH2 CENTRIFUGAL



IMPELLER TYPE



Executions: Bearing frame

SPECIFICATIONS

Sealing Type	MAG DRIVE
Flow	4000 m ³ /h
Head	370 m
Temp. Min.	-120 °C
Temp. Max.	350 °C
Des. Pressure	40 bar
API Material	as per API ¹⁻²

FEATURES



CN SEAL-M API

API 610 | OH2 CENTRIFUGAL



IMPELLER TYPE



Executions: Bearing frame

SPECIFICATIONS

Sealing Type	SEAL API 682
Flow	4000 m ³ /h
Head	370 m
Temp. Min.	-120 °C
Temp. Max.	180 °C (350 °C)
Des. Pressure	40 bar
API Material	as per API ¹⁻²

FEATURES



CPE MAG-M API

API 685 | OH2 CENTRIFUGAL



IMPELLER TYPE



Executions: Close coupled - Bearing frame

SPECIFICATIONS

Sealing Type	MAG DRIVE
Flow	4000 m ³ /h
Head	220 m
Temp. Min.	-40 °C
Temp. Max.	350 °C
Des. Pressure	40 bar
API Material	as per API ¹⁻²

FEATURES



CPE SEAL-M API

API 610 COMPLIANT | OH2 CENTRIFUGAL



IMPELLER TYPE



Executions: Bearing frame

SPECIFICATIONS

Sealing Type	SEAL API 682
Flow	16 m ³ /h
Head	220 m
Temp. Min.	-28 °C
Temp. Max.	180°C (350°C)
Des. Pressure	40 bar
API Material	as per API ¹⁻²

FEATURES



SC MAG-M

OH2 | SIDE CHANNEL | CONN. SUCTION-TOP



IMPELLER TYPE



Executions: Close coupled - Bearing frame

SPECIFICATIONS

Sealing Type	MAG DRIVE
Flow	42 m ³ /h
Head	350 m
Temp. Min.	-120 °C
Temp. Max.	350 °C
Des. Pressure	50 bar (100 bar)
API Material	as per API ¹⁻²

FEATURES



SCE MAG-M

ISO 15783 | SIDE CHANNEL | CONN. TOP-TOP.



IMPELLER TYPE



Executions: Close coupled - Bearing frame

SPECIFICATIONS

Sealing Type	MAG DRIVE
Flow	40 m ³ /h
Head	53 m
Temp. Min.	-30 °C
Temp. Max.	130 °C
Des. Pressure	25 bar
Materials	SS316L / DD / SD / HC ²

FEATURES



FEATURES LEGEND

High Temperature

Low Flow

High Pressure

Fluid with Gas

Low Temperature

Explosion Proof

Low NPSH

Hydrogen

¹ S8 - A8 - D1 - D2 - H1

² available other materials upon request

CNV MAG-M

API 685 | VS4 CENTRIFUGAL



SPECIFICATIONS	
Sealing Type	MAG DRIVE
Flow	600 m ³ /h
Head	220 m
Temp. Min.	-120 °C
Temp. Max.	250 °C
Des. Pressure	40 bar
API Material	as per API ¹⁻²

FEATURES	

CNV SEAL-M

API 610 | VS4 CENTRIFUGAL



SPECIFICATIONS	
Sealing Type	SEAL API 682
Flow	500 m ³ /h
Head	120 m
Temp. Min.	-20 °C
Temp. Max.	300 °C
Des. Pressure	40 bar
API Material	as per API ¹⁻²

FEATURES	

CN MAG-MV

API 685 | OH5 CENTRIFUGAL



SPECIFICATIONS	
Sealing Type	MAG DRIVE
Flow	3000 m ³ /h
Head	120 m
Temp. Min.	-40 °C
Temp. Max.	300 °C
Des. Pressure	40 bar
API Material	as per API ¹⁻²

FEATURES	

CN SEAL-M MV

API 610 | OH3 CENTRIFUGAL



SPECIFICATIONS	
Sealing Type	MAG DRIVE
Flow	4000 m ³ /h
Head	350 m
Temp. Min.	-40 °C
Temp. Max.	400 °C
Des. Pressure	40 bar
API Material	as per API ¹⁻²

FEATURES	

CB MAG-MS

API 685 COMPLIANT | BB5 MULTISTAGE



APPLICATIONS

- Hot Water
- Heat Transfer Liquids
- Acids
- Hydrocarbons
- Liquid Petroleum Gases (LPG)
- Lyes







MODEL	STAGE		SUCTION		DISCHARGE	
	Min.	Max	EN1092	ANSI	EN1092	ANSI
CB MAG-MS 32	3	12	100	4"	50	2"
CB MAG-MS 50	3	12	100	4"	50	2"
CB MAG-MS 80	3	12	150	6"	80	3"
CB MAG-MS 110	3	10	150	6"	80	3"
CB MAG-MS 160	3	10	150	6"	100	4"
CB MAG-MS 210	3	10	200	8"	150	6"
CB MAG-MS 270	3	10	200	8"	150	6"



SPECIFICATIONS	
Sealing Type	MAG DRIVE
Flow	300 m ³ /h
Head	1000 m
Temp. Min.	-40 °C
Temp. Max.	350 °C
Des. Pressure	100 bar
API Material	as per API ¹⁻²



FEATURES	

FEATURES LEGEND

-  High Temperature
-  Low Temperature

-  Low Flow
-  Explosion Proof

-  High Pressure
-  Low NPSH

-  Fluid with Gas
-  Hydrogen

HIGH PRESSURE

CC MAG-M

CENTRIFUGAL | SINGLE STAGE



SPECIFICATIONS	
Sealing Type	MAG DRIVE
Flow	2500 m ³ /h
Head Max.	330 m
Temp. Min.	-40 °C
Temp. Max.	300 °C
Des. Pressure	50 bar (100 bar)
Materials	as per API ¹⁻²

FEATURES

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Executions: Close coupled - Bearing frame

CHN MAG-M

ASME B73.3 | CENTRIFUGAL | SINGLE STAGE



SPECIFICATIONS	
Sealing Type	MAG DRIVE
Flow	2500 m ³ /h
Head Max.	330 m
Temp. Min.	-40 °C
Temp. Max.	300 °C
Des. Pressure	150 bar (400 bar)
Materials	as per API ¹⁻²

FEATURES

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Executions: Close coupled - Bearing frame

POSITIVE DISPLACEMENT

V IN LINE

SLIDING VANE | SINGLE STAGE



SPECIFICATIONS	
Sealing Type	MAG DRIVE
Flow	3000 l/h
Head	14 bar
Temp. Min.	-100 °C
Temp. Max.	200 °C
Des. Pressure	25 bar (150 bar)
Materials	SS316L / DD / SD / HC ²

FEATURES

- 

Executions: Close coupled

V MODULAR

SLIDING VANE | MULTI STAGE



SPECIFICATIONS	
Sealing Type	MAG DRIVE
Flow	2000 l/h
Head	48 bar
Temp. Min.	-100 °C
Temp. Max.	200 °C
Des. Pressure	50 bar (150 bar)
Materials	SS316L / DD / SD / HC ²

FEATURES

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Executions: Close coupled

PRODUCTS FOR DISTRIBUTION

CM MAG-P

LOW DUTY | CENTRIFUGAL | SINGLE STAGE



SPECIFICATIONS	
Sealing Type	MAG DRIVE
Flow	40 m ³ /h
Head	36 m
Temp. Min.	-30 °C
Temp. Max.	90 °C
Des. Pressure	5 bar
Materials	Plastic PP / PVDF

FEATURES

- 

Executions: Close coupled

OEM PRODUCTS - some examples

T ECOMAG-M

HEATING & COOLING TECHNOLOGY



WIND BLADE GEARBOX



INJECTION MOLDING



RADAR GEARBOX

QUALITY

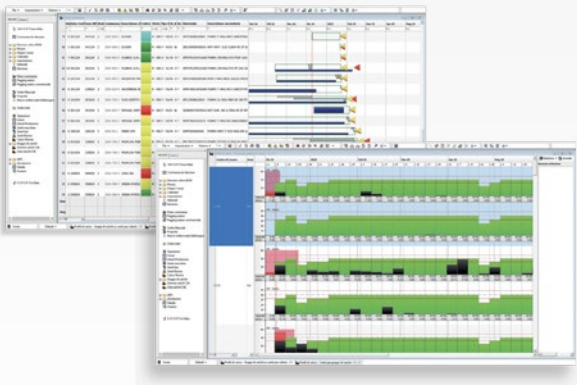
OUR TRADITION



We constantly invest in improving infrastructure and products, to offer **increasingly innovative and reliable solutions to our customers.**



Testing room renovated in 2021 to perform API610 / API685 / ISO 5199 performance tests.



Finite capacity scheduler grants to be in time with our commitments with customers.



GREEN HYDROGEN INDUSTRY

13

YEARS OF EXPERIENCE

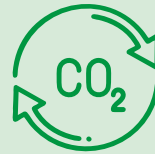
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COUNTRIES OF INSTALLATION

350

INSTALLED PUMPS

Pioneering to provide pumps for green hydrogen industrial processes. Our recent endeavors in green hydrogen applications underscore our forward-thinking approach.



CO² PRODUCTION INDUSTRY

15

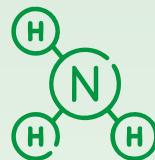
YEARS OF EXPERIENCE

8

COUNTRIES OF INSTALLATION

230

INSTALLED PUMPS



AMMONIA PRODUCTION INDUSTRY

18

YEARS OF EXPERIENCE

19

COUNTRIES OF INSTALLATION

160

INSTALLED PUMPS



METHANOL PRODUCTION INDUSTRY

20

YEARS OF EXPERIENCE

25

COUNTRIES OF INSTALLATION

450

INSTALLED PUMPS

The statistics provided serve informational purposes only. Business dynamics evolve, and data may change overtime on June 2024 update basis.

INDUSTRIES

ADVANTAGES



CHEMICALS

46

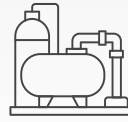
YEARS
OF EXPERIENCE

65

COUNTRIES OF
INSTALLATION

35K

INSTALLED
PUMPS



HYDROCARBON PROCESSING INDUSTRY

20

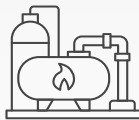
YEARS
OF EXPERIENCE

21

COUNTRIES OF
INSTALLATION

635

INSTALLED
PUMPS



OIL & GAS

35

YEARS
OF EXPERIENCE

20

COUNTRIES OF
INSTALLATION

2.5K

INSTALLED
PUMPS



CLEANERS & DETERGENTS

40

YEARS
OF EXPERIENCE

28

COUNTRIES OF
INSTALLATION

350

INSTALLED
PUMPS



WATER & WASTE WATER

41

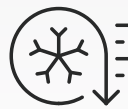
YEARS
OF EXPERIENCE

20

COUNTRIES OF
INSTALLATION

800

INSTALLED
PUMPS



COOLING APPLICATIONS

35

YEARS
OF EXPERIENCE

25

COUNTRIES OF
INSTALLATION

4K

INSTALLED
PUMPS



ENERGY UTILITIES

25

YEARS
OF EXPERIENCE

15

COUNTRIES OF
INSTALLATION

3.5K

INSTALLED
PUMPS



HEATING APPLICATIONS

35

YEARS
OF EXPERIENCE

20

COUNTRIES OF
INSTALLATION

2.5K

INSTALLED
PUMPS



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