



JOHNSON PUMP
AN SPX BRAND



CombiMag / CombiMagBloc

100% leakfree horizontal centrifugal pump according to
ISO 5199 and EN 22858 (ISO 2858 / DIN 24256)

System characteristics

The CombiMag, the leakfree version of the CombiChem, is a part of the CombiSystem, a family of different pump types having a high interchangeability in parts. Therefore it is possible to convert existing CombiChem pumps having a conventional shaft seal to the magnetic coupled version CombiMag. The CombiMagBloc is a close-coupled version of the CombiMag.


The CombiMag/MagBloc, designed to ISO 5199 and EN 22858 (ISO 2858 / DIN 24256), has a high operational reliability, providing long servicing intervals and a long duty life.

Applications

The CombiMag / MagBloc is suitable for handling clean liquids. A slight contamination is permissible, however the impurities must not be abrasive or magnetic.

The CombiMag / CombiMagBloc will be used in the chemical and associated industries for the pumping of corrosive, toxic, inflammable, aggressive, expensive, hazardous, as well as air sensitive fluids.

Pump specifics

- 100% leakfree
- Suitable for a wide range of applications
- Low maintenance costs
- Long life cycle (MTBF - Mean Time Between Failure)
- Interchangeable of Back-Pull-Out units with CombiChem, CombiNorm, CombiPro
- Conversion kit from sealed to leakfree execution possible
- Closed or half-open impeller
- CombiMag bearing bracket bearings oil- or grease lubricated; pump casing with non-sparking emergency bearing
- Optional: pressure and/or temperature sensors
-  ATEX certified applications

Technical data	CombiMag	CombiMagBloc
Max. capacity:	550 m ³ /h	280 m ³ /h
Max delivery head:	160 m	140 m
Max operating pressure:	16 bar (25 bar optional)	
Max liquid temperature:	300°C (350°C optional)	200°C
Max viscosity:	150 mPas	
Slurry:	Maximum 5% weight, size maximum 250 µm	
Solids:	Maximum diameter 0.1 mm, hardness 700 HV	
Max power at 3000 rpm:	75 kW	45 kW
Motor frame size:	IEC 80 - 280S/M	IEC 80 - 112M (B5) IEC 132S/M - 225S/M (B3/B5)
Max torque:	315 Nm	168 Nm

Material

Pump casing	stainless steel, nodular cast iron, cast iron, duplex, Alloy 20, "Hastelloy C [®] ", alloys
Intermediate cover	stainless steel, nodular cast iron, duplex, Alloy 20, "Hastelloy C [®] ", alloys
Impeller	stainless steel, cast iron, bronze, duplex, Alloy 20, "Hastelloy C [®] ", alloys
Impeller shaft	stainless steel, duplex
Containment can	"Hastelloy C4 [®] "
Slide bearings	silicon carbide
Magnets	samarium cobalt
<i>Other materials upon request</i>	

SPX[®]

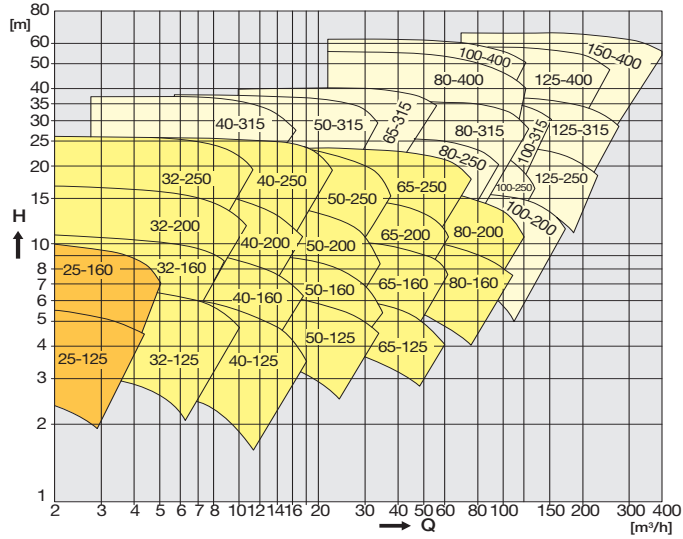
Performance data

only CMB types

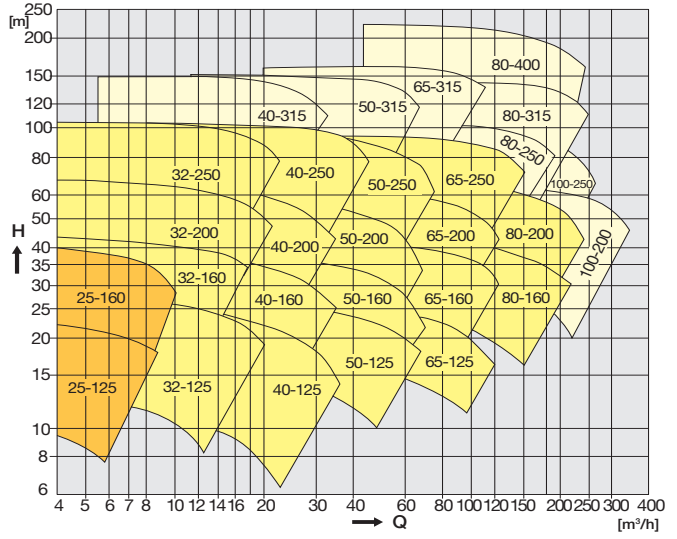
CM and CMB types

only CM types

$n_{nom} = 1500 \text{ rpm}$



$n_{nom} = 3000 \text{ rpm}$



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For more information about our worldwide locations, approvals, certifications, and local representatives, please visit www.johnson-pump.com and www.spxpe.com.

SPX reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Certified drawings are available upon request.