

# XTS- B / XTS

Stainless Steel Magnetic Drive Centrifugal Pumps for suspended solids

## XTS-B closed coupled



For fluids with organic solids, chemical precipitations and suspensions

## New mag-driven pump suitable for dirty liquids



## XTS bare shaft

Stainless Steel Magnetic drive Horizontal - Single Stage - Centrifugal pumps

### MAIN ADVANTAGES:

- Zero leakage thanks to magnetic driven execution
- Reduced cost of installation: no double mechanical seals and external flushing system.
- No process contamination with external flushing fluid, when double mechanical seals fail



Comply to :  
2006/42/CE

Design to : ISO 2858  
ISO 15783

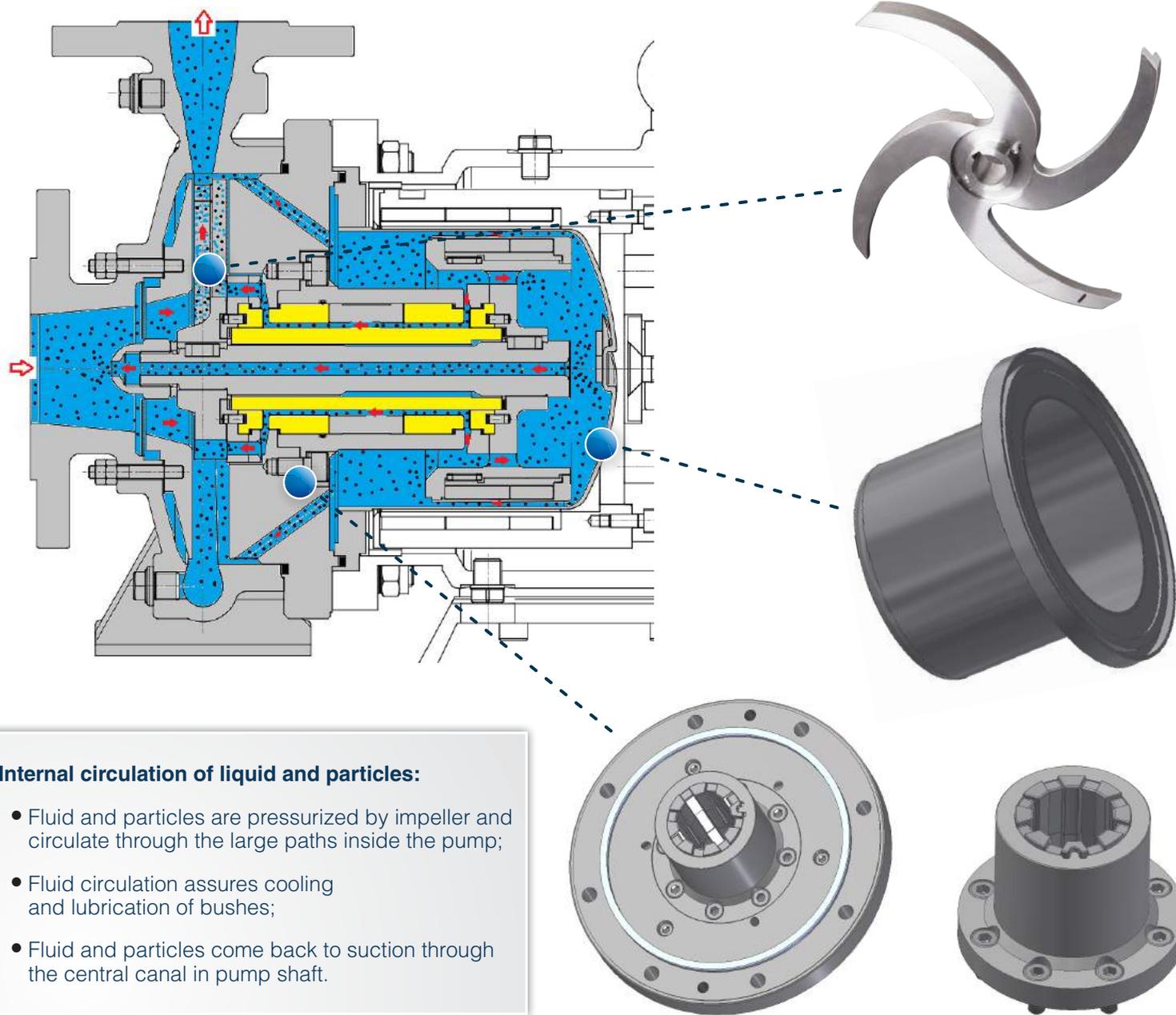
ATEX 100   
Directive 2014/34/EU

Flanged  
UNI 1092-2 (ISO 7005-2 )  
PN16RF type B  
slotted ANSI 150RF



Pumps UK Ltd

# XTS pump concept



### Internal circulation of liquid and particles:

- Fluid and particles are pressurized by impeller and circulate through the large paths inside the pump;
- Fluid circulation assures cooling and lubrication of bushes;
- Fluid and particles come back to suction through the central canal in pump shaft.

### Open impeller:

Extremely low axial thrust, resulting in low mechanical solicitations of bushes. Suitable for solid particles. It centrifuge soft particles agglomerates

### Isolation shell:

Executed in Hastelloy-C to minimize eddy-current, minimum thickness 1mm. On request, Zirconium Oxyde execution, for top abrasion resistance and zero eddie-current

### Bushes:

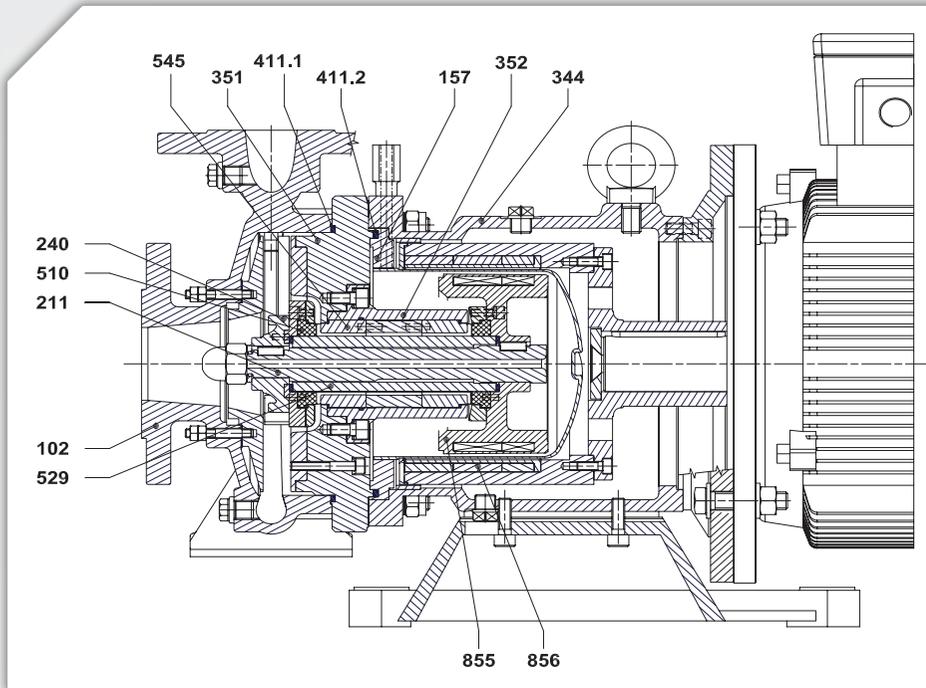
Executed in diamond coated SSIC, with genoerous canals for optimal circulation of liquid and particles. Diamond coating protects bushes in case of short dry run and from abrasion of particles.

### Bushes support:

Two pieces cartridge execution for fast and less expensive maintenance.

# DRAWINGS / PERFORMANCES

XTS-B



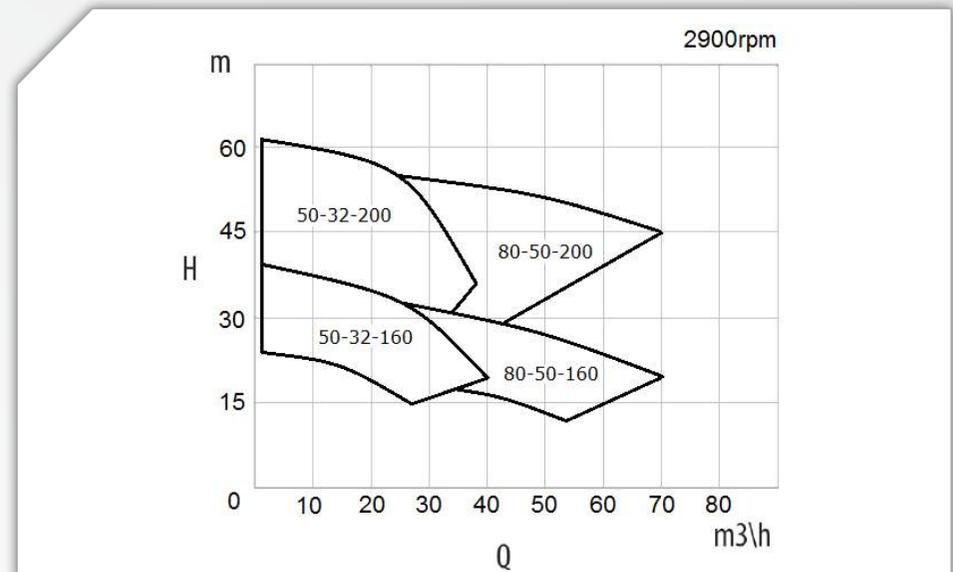
Part list

| DIN   | Component               | Materials                 |
|-------|-------------------------|---------------------------|
| 102   | Volute Casing           | AISI 316 (1.4408-CF8M)    |
| 157   | Isolation Shell         | Hastelloy C + AISI 316L   |
| 211   | Pump Shaft              | AISI 316 (1.4401)         |
| 240   | Impeller                | AISI 316 (1.4401-CF8M)    |
| 344   | Lantern                 | EN-GJS-400-15             |
| 351   | Bushing Support: Flange | AISI 316 (1.4401)         |
| 352   | Bushing Support: Seat   | AISI 316 (1.4401)         |
| 411.x | Joint Ring              | PTFE \ Grafoil            |
| 510   | Thrust Bearing          | Run Safe Sintered SSIC    |
| 529   | Bearing Sleeve          | Run Safe Sintered SSIC    |
| 545   | Bearing Bush            | Run Safe Sintered SSIC    |
| 855   | Inner Magnet            | AISI 316L (1.4404) / SmCo |
| 856   | Outer Magnet            | EN-GJS-400-15/Ryton/NdFeB |

Technical Specifications

|                                 |  |
|---------------------------------|--|
| <b>Performances 2900 rpm</b>    | Q max = 70 m <sup>3</sup> /h -> H max = 61 mcl   |
| <b>Electric Motors</b>          | 0.75 kW (motor size 80) -> 18,5 kW (motor size 160)  |
| <b>Temperature range</b>        | <ul style="list-style-type: none"> <li>• XTS-B -40°C up to +180°C</li> <li>• XTS -40°C up to +300°C</li> </ul>   |
| <b>Allowable Pressure Range</b> | up to 16 bar   |
| <b>Suction / Delivery</b>       | <ul style="list-style-type: none"> <li>• 50-32-160 : DN50/DN32</li> <li>• 50-32-200 : DN50/DN32</li> <li>• 80-50-160 : DN80/DN50</li> <li>• 80-50-200 : DN80/DN50</li> </ul> |
| <b>Flange connections</b>       | UNI 1092-2 / ISO 7005-2 PN 16, type B slotted to ASME /ANSI class 150  |
| <b>Viscosity</b>                | Consult factory  |
| <b>Allowable Solids</b>         | Consult factory  |

Performance fields 50Hz

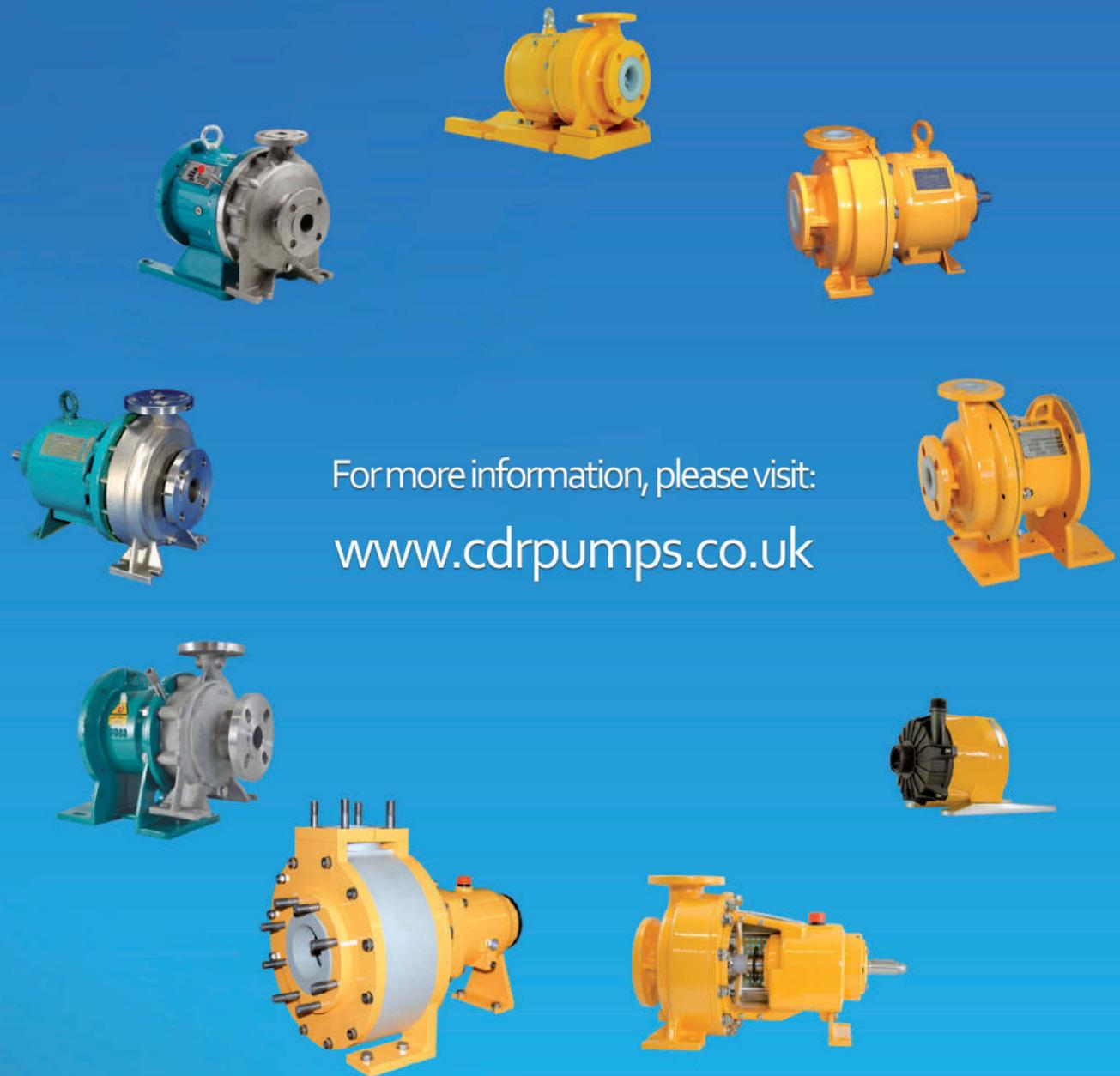




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**Technical Characteristics:**

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