

FLOW TECHNOLOGY COMPONENTS

ASEPTIC CENTRIFUGAL SANITARY PUMPS CSD SERIES







Closed coupled hygienic and aseptic centrifugal pumps with open impellers. For optimal product security, the CSD aseptic series incorporates a steam protection

barrier between the pumped product and the external environment. It is composed of two different flushing systems: one with very high temperature water for the mechanical seal and the second is steam on the product pump connections.

Wetted parts in CF-3M 1.4404 / AISI 316L stainless steel, investment cast and electro-chemically polished. Special internal finishes to 0.5 micron Ra are

available on request.

The clamp casing and seal design allows quick disassembly for inspection, cleaning and maintenance.

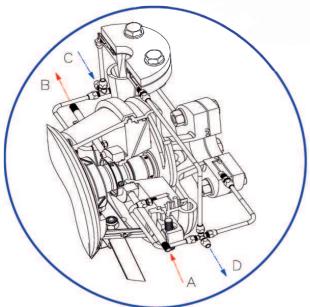
Separate IEC standard motor.

For aggressive products and environments, CSD pumps can on special request, be manufactured in the following materials:

- Superduplex
- · Nickel steel

Note: upon availability with CSF





Flushing pipes connections: 1/8" GAS

Mechanical seal flushing inlet Mechanical seal flushing outlet

Flushing inlet of the casing / cover barrier and inlet - outlet port

Flushing outlet of the casing / cover barrier and inlet - outlet port flanges

Steam protective barrier

The steam piping must be connected to the "C" inlet fitting. The steam creates a sterile protection barrier for the pumped product by circulating inside the circuit positioned between the casing / cover and the inlet and outlet flanges.

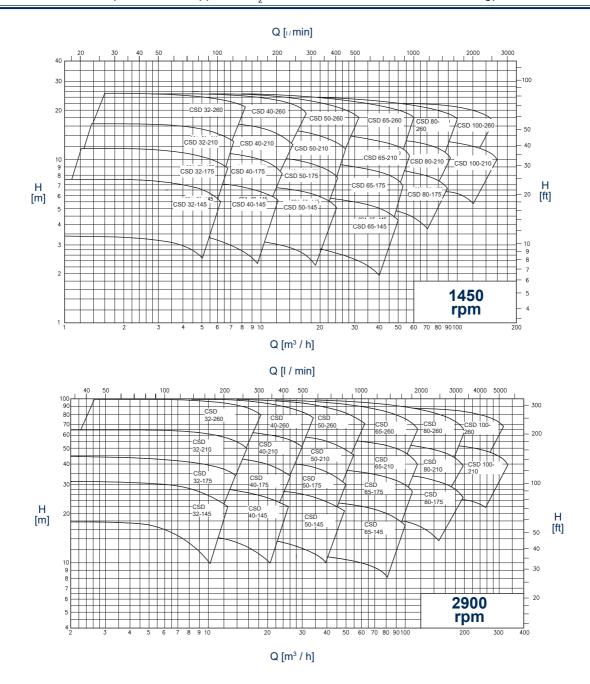
The steam collecting piping will be connected to the "D" steam outlet

The piping conveying the overheated water for cooling of radial seal must be connected at the inlet to the "A" pipe and at the outlet to the "B" pipe

Note: For the good running of the pump it is important that the flushing liquid circulate inside the mechanical seal box before the pump start-up and it must be suspended after the pump stop only. Make closed-loop connection of the D steam outlet fitting to avoid contact with the atmosphere.

GENERAL DIAGRAMS

(Performance applies to H₂O at 20 °C, 1013 mbar, Data not binding)



TECHNICAL DATA

Flow rates up to 300 m³/h
Heads up to 90 mH₂O
Maximum operating pressure 10 bar up to 100°C
Temperature range -20°÷ +100°
High performance, with low NPSH values.

Connections:

UNI EN1092-1 PN16 flanges.

Elastomers (FDA Regulation (EC) No. 1935/2004):

Nitrile (NBR)
Ethylene propylene (EPDM)
Special fluorocarbon seal
Fluorocarbon seal (FPM - FKM)
FEP
FFPM - FFKM
Silicone

Mechanical seals:

Protected, balanced and bi-directional mechanical seals with seats to EN12756, ISO3069 standards. Single internal mechanical seal with external protective barrier "V".

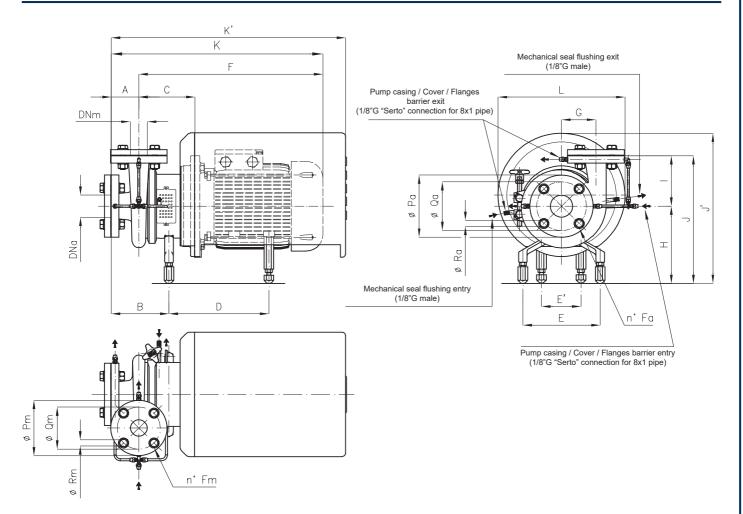
The "V execution" seal system is composed of an internal, protected, balanced and bi-directional mechanical seal with seats according to EN 12756 - ISO 3069 standards in direct contact with the product and of an external radial seal for the high temperature flushing liquid.

Use sterile condensate with flow rate 0.5 ÷ 1 l/min and pressure ≤ 1 Bar.

Technical Data for Sterlisation:

Maximum steam pressure: 3 Bar Maximum steam temperature : 130°C

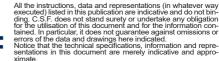
OVERALL DIMENSIONS



Dimensions not binding - DN = UNI EN 1092-1 PN 16 flanges, with standard IEC/EN motors

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Pump type	IEC motor dimensions:	DNa	DNm	Α	В	С	D	E	E'	F	G	Н	K	K'	I	J	J'	L	Ø Pa	Ø Qa	Ø Ra	Ø fa	Ø Rm	Ø Qm	Ø Rm	Ø fm
CSD 32-145	80	40	32	80	167	138	231	225	-	372	85	208	452	566	135	343	372	298	150	110	18	4	140	100	18	4
	90									419 475			499 555	-												
	112					139	301			468		225	548	635		360	430	330								
CSD 32-175	80	40	32	80	167	139	231		-	373	95	213	453	567		348	377	298	150	110	18	4	140	100	18	
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CSD 32-210	80	40	32	88	166	139	231	-	-	373	110	221	461	575		376	385	298	150	110	18	4	140	100	18	
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CSD 32-260	90	50	32	90	184	163		225	230	444		221		601	177	398	385			125	18	4	140	100	18	4
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	112					104			180 185 230	493	140	238	583 660 698			415	443	330								
	132 M-S 132 MB					185	292 290			570 608							460	370								
	160					225	412					247	809			424	510	430								
CSD 40-145	80	50	40	80	168	139	231			373		208	453	567		341	372	298		125	18	4	150	110	18	4
	90							225	-	420 476	90		501 556		133				165							
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	160					208	408			702			782				501	430								





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