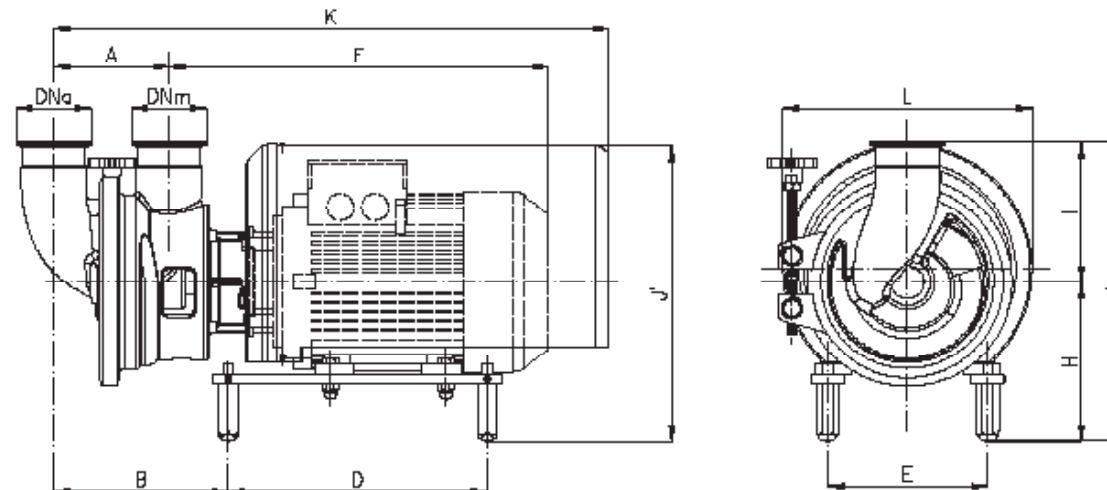


Pump type	IEC motor dimensions:	DNa	DNm	A	B	C	D	E	F	G	H	K	K'	I	J	J'	L
CSA 50-210	90	2 1/2"	2"	80	175	141	254	140	422	120	240	502	569	168	408	445	330
	100				161	142	314	160	454			534	639				
	112				168			190	475			555					
	132 S				180	164	389	216	537			617	682				
	132 M				180	164	389	216	581			661	737				
CSA 50-260	100	2 1/2"	2"	90	243	208	460	254	686	145	270	567	672	179	449	475	330
	112				173	223	600	279	783			661	737				
	160				194	165	314	160	477			588	672				
	180				201	165	314	190	498			588	672				
	180				273	228	600	279	788			863	1072				
CSA 65-145	80	3"	3"	79	172	145	254	125	379	112	245	458	572	138	383	409	298
	90				178	145	254	140	426			505	572				
	100				164	146	314	160	458			537	642				
	112				171	146	314	190	479			558					
	132 S				183	168	389	216	541			620	685				
CSA 65-175	160	3"	3"	80	246	212	460	254	690	120	280	769	940	138	418	543	430
	90				178	144	254	140	425			505	572				
	100				164	145	314	160	457			537	642				
	112				171	145	314	190	478			558					
	132 S				183	167	389	216	540			620	685				
CSA 65-210	160	3"	3"	90	246	211	460	254	689	135	305	769	940	158	423	470	330
	90				178	144	254	140	425			505	572				
	100				164	145	314	160	457			537	642				
	112				171	145	314	190	478			558					
	132 M				183	167	389	216	540			620	685				
CSA 65-260	160	3"	3"	100	246	211	460	254	689	155	305	769	940	193	478	507	370
	90				178	144	254	140	425			505	572				
	100				164	145	314	160	457			537	642				
	112				171	145	314	190	478			558					
	132 S				183	167	389	216	540			620	685				
CSA 80-175	160	4"	3"	100	246	211	460	254	689	139	275	586	691	164	439	480	330
	90				178	144	254	140	425			505	572				
	100				164	145	314	160	457			537	642				
	112				171	145	314	190	478			558					
	132 S				183	167	389	216	540			620	685				
CSA 80-210	160	4"	3"	100	246	211	460	254	689	145	285	586	691	164	449	507	370
	90				178	144	254	140	425			505	572				
	100				164	145	314	160	457			537	642				
	112				171	145	314	190	478			558					
	132 S				183	167	389	216	540			620	685				
CSA 80-260	160	4"	3"	100	246	211	460	254	689	165	300	586	691	209	509	522	370
	90				178	144	254	140	425			505	572				
	100				164	145	314	160	457			537	642				
	112				171	145	314	190	478			558					
	132 S				183	167	389	216	540			620	685				
CSA 100-210	132 S	5"	4"	111	246	200	389	216	573	161	305	683	750	214	519	634	420
	180				221	240	600	279	800			911	1120				
	132 M				246	195	389	216	612			727	803				
CSA 100-260	160	5"	4"	115	305	235	460	254	713	186	325	828	1004	216	541	588	430
	180				220	235	460	279	795			910	1118				

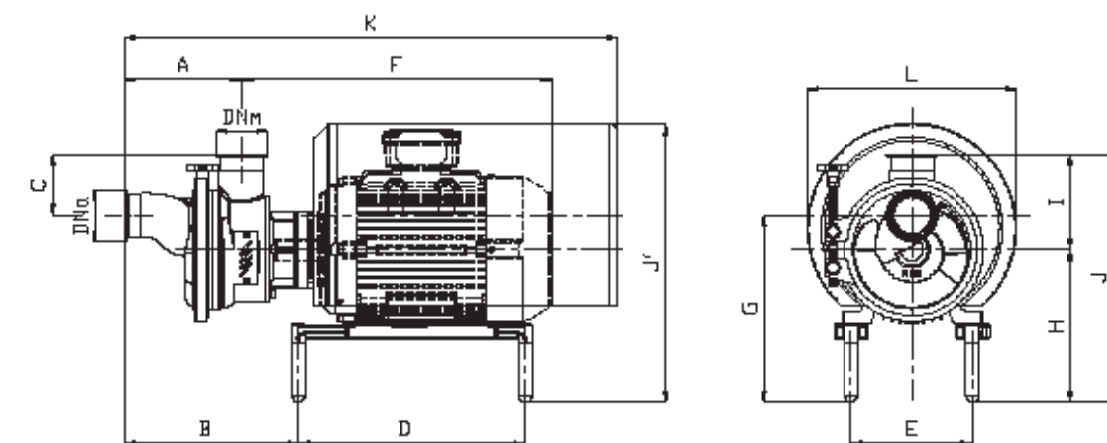
OVERALL DIMENSIONS ASH series
Dimensions not binding - DN = DIN 32676-C clamp connection with standard IEC/EN motors

ASH STANDARD ports



Pump type	kW	DNa	DNm	A	B	D	E	F	H	K	I	J	J'	L
ASH 40	1,1/1,5	1" 1/2"	1" 1/2"	91,3	204	270	140	408,5	228,5	500	138,6	367	430	302,5
	2,2/3				201	285	150	477	238,5	616		377	466	333
ASH 50	2,2/3	2"	2"	119	241	285	150	477	238,5	644,5	148,6	387	466	333
	4				221	315	180	453,6	250,5			399	478	
ASH 60	5,5	3"	3"	139,5	214	400	216	539	270,5	738,5	168,6	419	492	372
	4				248	315	180	460	250,5	671,5		419	478	333
ASH 65	5,5/7,5/9,2	3"	3"	140	241	400	216	548,5	270,5	765,5	168,6	439	492	372
	11/15				267	460	254	696	280,5	1040		449	579	480

ASH HORIZONTAL suction



Pump type	kW	DNa	DNm	A	B	C	D	E	F	G	H	K	I	J	J'	L
ASH 40	1,1/1,5	1" 1/2"	1" 1/2"	141,9	254,5	68,6	270	140	408,5	298,5	228,5	644	138,6	367	430	302,5
	2,2/3				251,5		285	150	477	308,5	238,5	667		377	466	333
ASH 50	2,2/3	2"	2"	166	276	88,6	285	150	477	298,5	238,5	691,5	148,6	387	466	333
	4				268		315	180	453,6	308,5	250,5	399		478		
ASH 60	5,5	3"	3"	207,6	261	108,6	400	216	539	330,5	270,5	785,5	168,6	419	492	372
	4				316		315	180	460	310,5	250,5	739,5		419	478	333
ASH 65	5,5/7,5/9,2	3"	3"	201	309	108,6	400	216	548,5	330,5	270,5	833,5	168,6	439	492	372
	11/15				302,5		400	216	548,5	330,5	270,5	827		439	492	372



HYGIENIC CENTRIFUGAL PUMPS
CSA series

Sanitary centrifugal pumps in close-coupled version, with independent support.

Designed, tested and approved according to EHEDG (European Hygienic Engineering & Design Group) specifications and 3-A Sanitary Standards, for use essentially in the food and pharmaceutical industries where specific health regulations are in force.

Consequently, modular construction concepts have been created in suitable executions.

Main features:

-Open impeller with excellent performance and low NPSH values

-Made entirely of CF-3M 1.4404 / AISI 316L grade stainless steel

- Investment castings with special finishes with Ra up to 0.5 microns.

-Complete with adjustable stainless steel support feet - Support with grease lubricated bearings.

-Closure of the body with a clamp allows for quick and easy disassembly for inspection, cleaning and maintenance operations; The delivery port can be rotated to any position.

Executions suitable for motors complying with standards: IEC 34-1, VDE 0530T1, NF C51-111, BS5000 PART 99, NEMA NG1 PART.1.

ATEX versions also available on request.



SANITARY SELF-PRIMING PUMPS
ASH series

Self-priming sanitary centrifugal pumps in close-coupled version, with independent support.

Approved according to 3-A Sanitary Standards.

Made for different application needs, they are a top product thanks to the design features, materials and technologies used.

They can handle liquids which release gas or create foam and with the suction pipe only partly filled.

Main features:

Made entirely from CF-3M 1.4404/ AISI 316L stainless steel. Investment castings and special finishes with Ra up to 0.8 microns. Electrochemical polishing treatment.

Adjustable stainless steel support feet and grease lubricated bearings.

Casing closed by means of a clamp. Easily to disassemble for inspection, cleaning and maintenance operations.

Executions suitable for motors complying with standards: IEC 34-1, VDE 0530T1, NF C51-111, BS5000 PART 99, NEMA NG1 PART.1 .

ATEX versions also available on request.



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TECHNICAL DATA CSA series

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

Mechanical seals:

With seats to EN 12756, ISO 3069 standards.
 Single internal mechanical seal
 Single external mechanical seal
 External flushed mechanical seal + TMR

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

EPDM
 FPM - FKM
 FFPM - FFKM
 FEP

Connections:

CLAMP DIN 32676-C and DIN 11864



TECHNICAL DATA ASH series

Flow rates up to 40 m³/h
 Head values up to 35 m (a 50 Hz)
 Maximum operating pressure 6 bar up to 100°C
 Temperature range -20°+ +100°

Mechanical seals:

Single internal mechanical seal, protected and balanced, with seats according to EN 12756, ISO 3069.

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

EPDM
 FPM - FKM
 FFPM - FFKM
 FEP

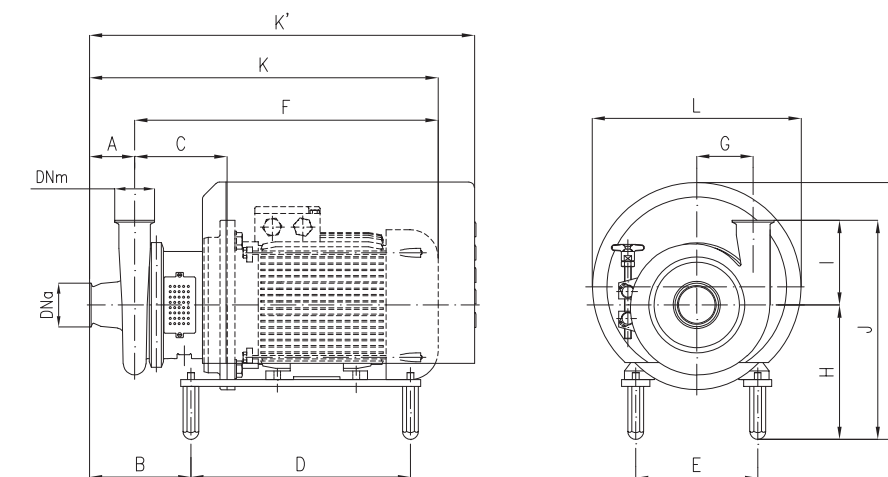
Connections:

CLAMP DIN 32676-C and DIN 11864

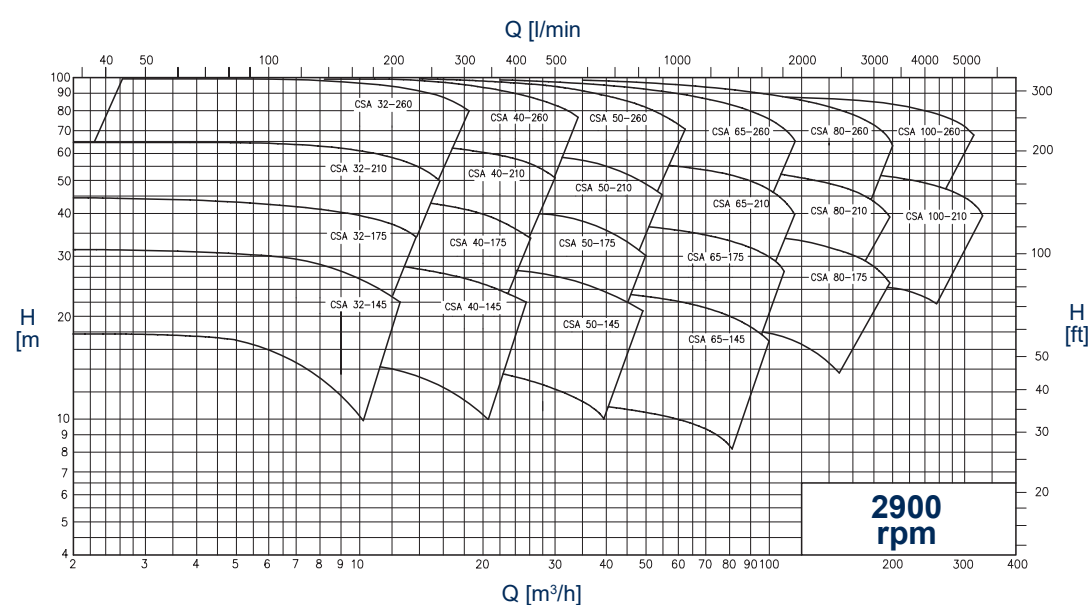
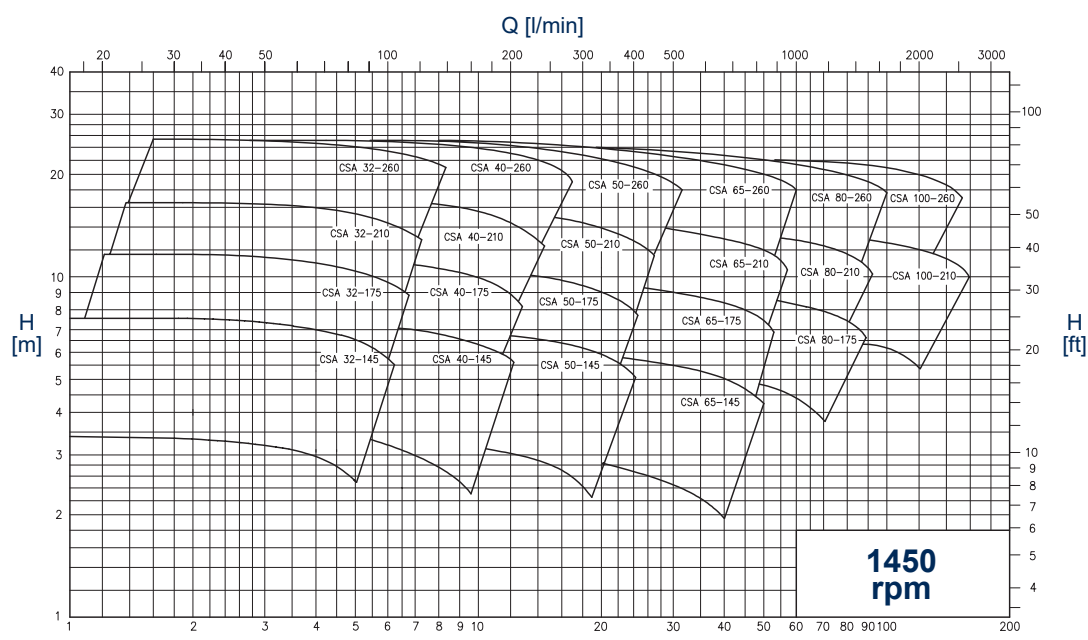


OVERALL DIMENSIONS CSA series

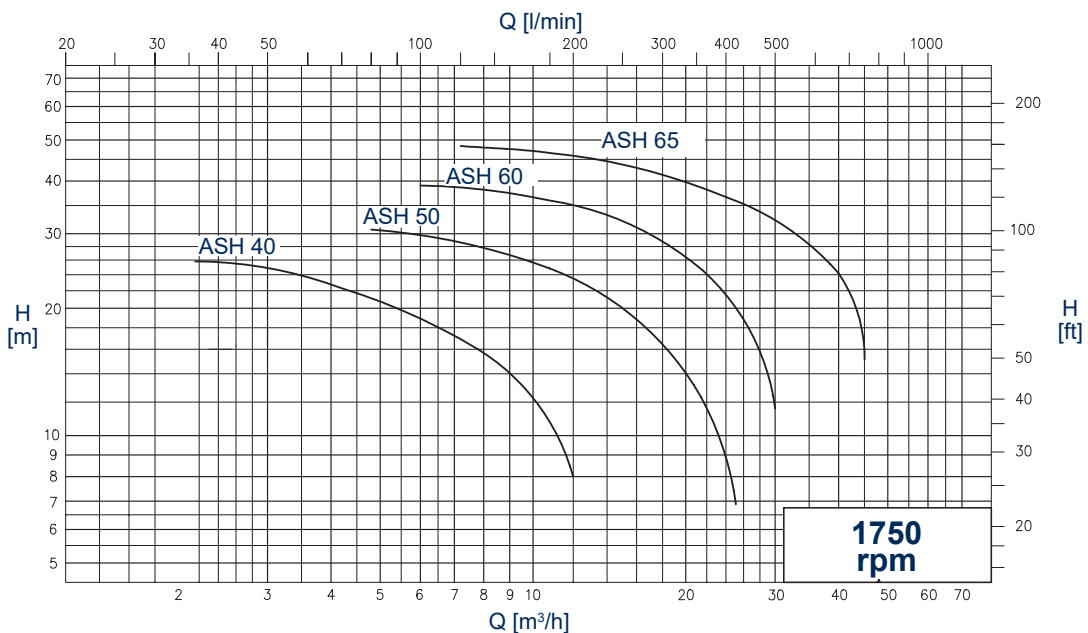
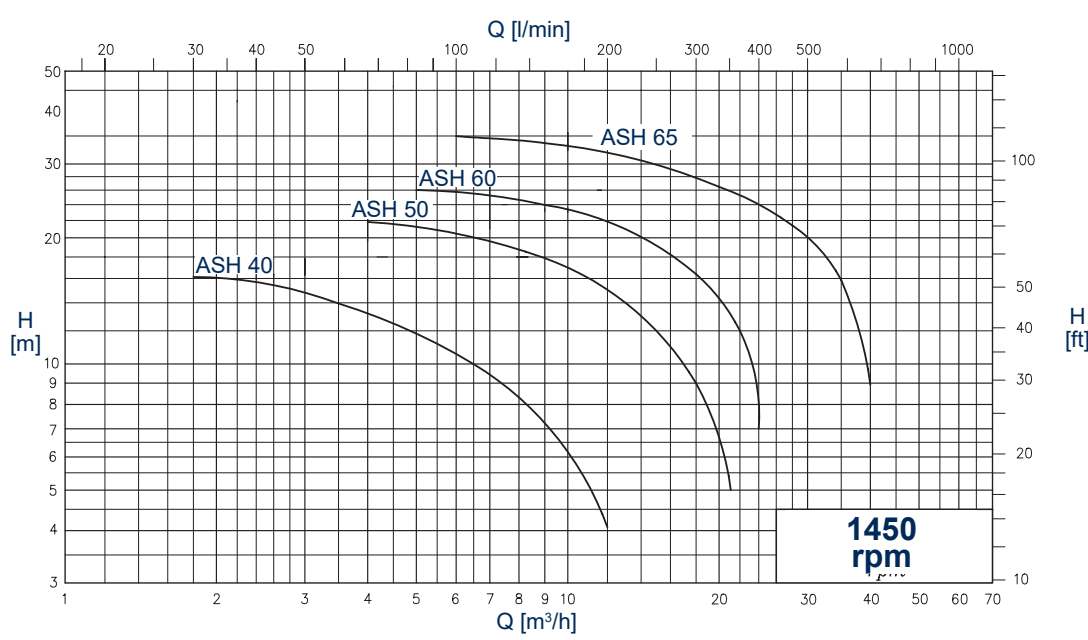
Dimensions not binding - DN = "Clamp" DIN 32676-C connections, with standard IEC/EN motors



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



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



Pump type	IEC motor dimensions:	DNa	DNm	A	B	C	D	E	F	G	H	K	K'	I	J	J'	L
CSA 32-145	80	1 1/2	1 1/2	80	166	138	254	125	372	85	220	452	566	148	368	384	298
	90				140	419	230	499	378		394						
	100				158	160	451	240	531		388	445					
	112				165	139	314	230	553		378	435					
CSA 32-175	80	1 1/2	1 1/2	80	167	139	254	125	373	95	220	453	567	148	368	384	298
	90				173	140	420	230	500		378	394					
	100				159	160	452	240	532		388	445					
	112				166	140	314	230	553		378	435					
CSA 32-210	80	1 1/2	1 1/2	80	167	139	254	125	373	110	230	453	567	168	398	402	298
	90				173	139	140	420	240		532	408			445		
	100				159	160	452	230	553		398	435					
	112				166	140	314	230	553		378	435					
CSA 32-260	132 S	2"	1 1/2	90	177	161	389	216	534	140	255	614	680	168	423	477	370
	132 M				178	161	389	216	578		658	735					
	160				241	206	460	254	684		280	764			935		
	90				207	163	254	140	444		534	601					
CSA 40-145	80	2"	2"	80	166	140	314	160	476	90	260	566	671	133	428	465	330
	90				193	164	314	160	476		566	671					
	100				200	185	389	216	558		648	714					
	112				211	185	389	216	602		693	769					
CSA 40-175	80	2"	2"	80	160	141	254	125	375	95	220	455	569	150	370	384	298
	90				175	139	254	140	422		230	502					
	100				161	142	314	160	454		240	534					
	112				168	142	314	190	475		230	555					
CSA 40-210	132 S	2"	2"	80	180	164	389	216	537	115	255	617	682	160	405	477	370
	132 M				181	164	389	216	581		661	737					
	160				243	208	460	254	686		280	766			937		
	90				217	163	254	140	444		544	611					
CSA 40-260	80	2"	2"	80	161	142	314	160	454	145	260	576	681	172	432	465	330
	90				203	164	314	160	476		576	681					
	100				210	164	314	190	497		597	681					
	112				203	164	314	190	497		576	681					
CSA 50-145	132 S	2 1/2	2"	80	221	185	389	216	558	95	280	658	724	139	440	543	370
	132 M				221	185	389	216	602		702	779					
	160				280	225	460	254	703		280	803			978		
	90				195	141	254	140	422		305	885			1094		
CSA 50-175	80	2 1/2	2"	80	169	141	254	125	374	100	220	454	569	154	359	384	298
	90				175	141	254	140	422		230	502					
	100				161	142	314	160	454		240	534					
	112				168	142	314	190	475		230	555					