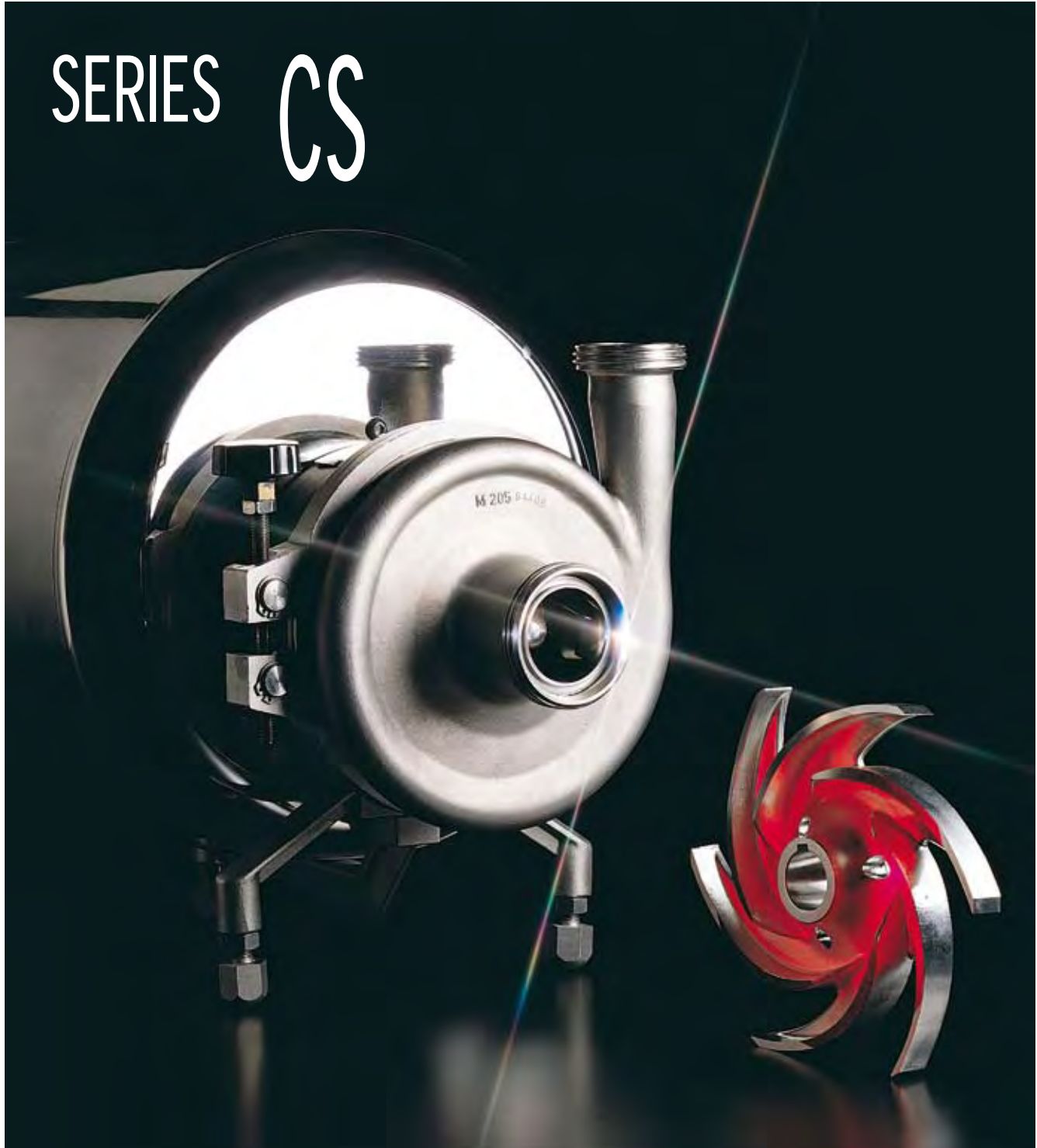


SANITARY CENTRIFUGAL PUMPS

CLOSED COUPLED WITH STANDARD MOTOR

CENTRIFUGAL
PUMPS
Series CS

SERIES CS



CSFR
inox

C.S.F. INOX SPA

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CS-CSX-CSK PUMPS

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CS-CSA-CSK PERFORMANCE CURVES

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CENTRIFUGAL PUMPS

CS - CSX - CSK SERIES

Standard design

Closed coupled hygienic centrifugal pumps with open impellers. CS Series pumps meet the highest requirements of the food, pharmaceutical, chemical and water treatment industries.

The pumps are designed to a modular concept, resulting in a large number of models and a massive performance range. When combined with the extremely robust construction, these highly efficient pumps become ideal for any hygienic process system.

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 (not on sizes 125 to 150).

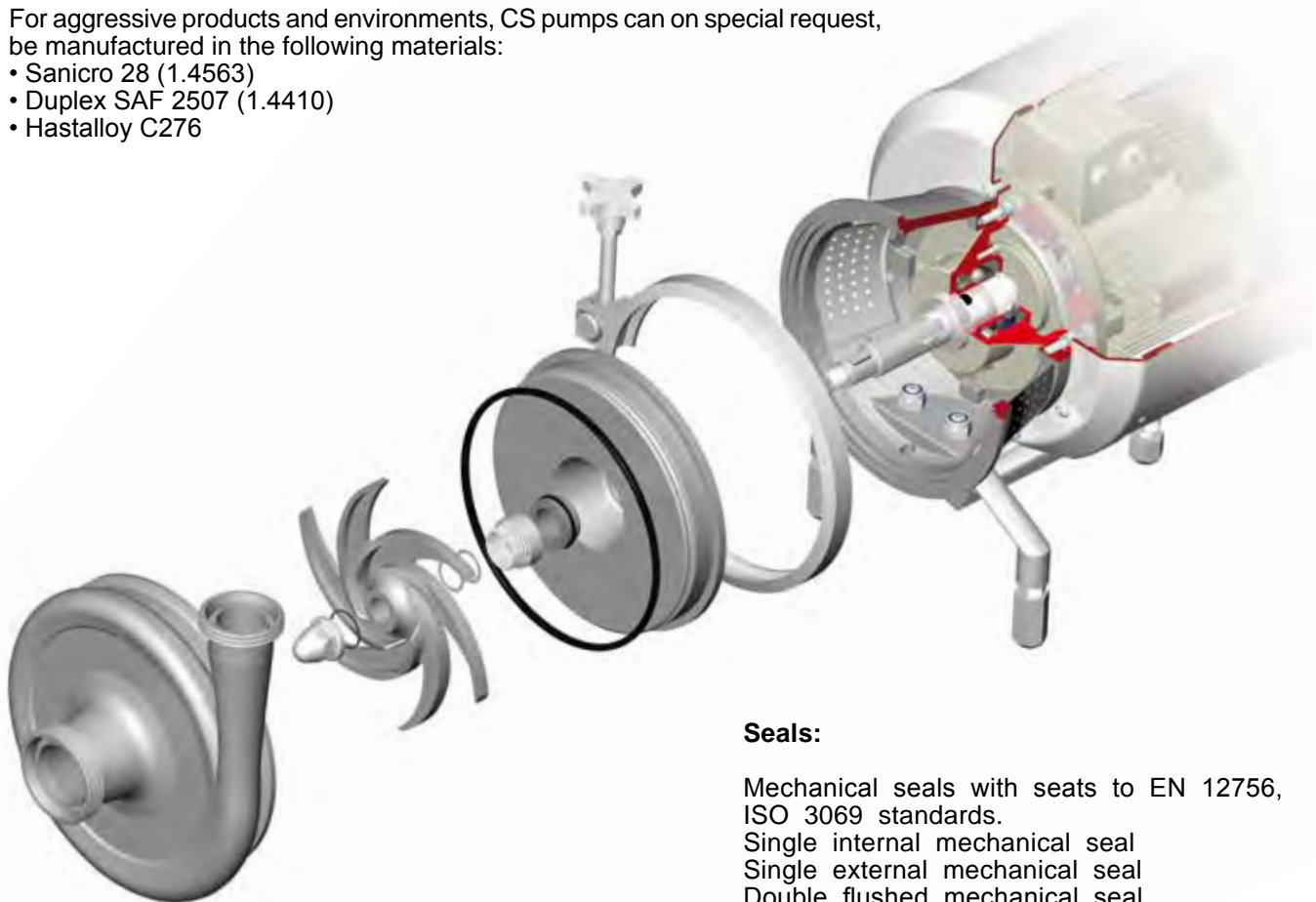
Separate IEC standard motor.

Flow rates up to 500 m³/h, heads up to 100 m (10 bar); high performance, with low NPSH values.

The clamp casing and seal design allows quick disassembly for inspection, cleaning and maintenance. It also enables the delivery port to be rotated to any position for easy installation (not on sizes 125 to 150).

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

- Sanicro 28 (1.4563)
- Duplex SAF 2507 (1.4410)
- Hastalloy C276



Seals:

Mechanical seals with seats to EN 12756, ISO 3069 standards.

- Single internal mechanical seal
- Single external mechanical seal
- Double flushed mechanical seal

Elastomers (certified to FDA):

- EPDM
- Fluorocarbon
- Silicone
- P.T.F.E. (Fep)

Connections:

DIN - SMS - IDF - BS / RJT - DS - CLAMP and EN 1092-1 PN 16 flanges suitable for all international standards.



INDEPENDENT SUPPORT

Sturdy and modular support to be integrated in the various solutions.



SEPARATE MOTOR

For a self-sufficient choice in compliance with the following standards:

- IEC 34 - 1
- VDE 0530T1
- NF C51 - 111
- BS 5000 PART. 99
- NEMA MG1 PART. 1



REAR CASING COVER

Achieved by investment casting, structured and machined according to the various mechanical seals and application requirements.



IMPELLER

Each pump model has its own impeller that is manufactured with perfect shapes, thickness and materials and balanced thanks to the investment casting procedure. This means that they are perfectly efficient and reliable.



CASING

Volute casing with variable circular cross section, minimum thickness 6 mm, with perfect development of the shapes ensured by the investment casting procedure.

APPLICATIONS



The CS series has been designed to be used mainly in foodstuff, pharmaceutical, chemical and water treatment industries. The high quality standard does however mean that these pumps can also be used in all sectors where liquids are to be pumped.

Thus modular constructional concepts have been achieved with solutions suitable for all sectors.

The choice of the type of open impeller with 6 blades but with minimum assembly clearances means that these pumps can be used with perfectly clean and clear liquids but also with denser liquids or those with suspended particles. Ideal performance and low NPSH values mean that they can be used even in plants with particularly tricky problems.

PRODUCTS AND PROCESSES

DAIRY PRODUCTS

Unpasturised milk, whey, cream, skimmed milk, concentrated milk, concentrated whey.

FOODSTUFFS

Animal and vegetable oils and fats, vinegar, sauces, flavourings, egg products.

NON ALCOHOLIC BEVERAGES

Syrups, concentrates, must, fruits juice.

ALCOHOLIC BEVERAGES

Liqueurs, wine, sparkling wine, beer.

PHARMACEUTICAL/COSMETICS

Superpure water, WFI, hydro-alcoholic solutions, infusion solutions, lotions, plant extracts, perfumes.

PAPER/PULP

Glues, starch solutions, resin solutions, kaolin solutions.

BIOTECHNOLOGY

Cellular suspensions, nutrients solutions, enzymes.

SUGARY PRODUCTS

Liquid sugar, treacle, starch solution, glucose.

MEAT APPLICATIONS

Brine, meat broth, blood

BREWING

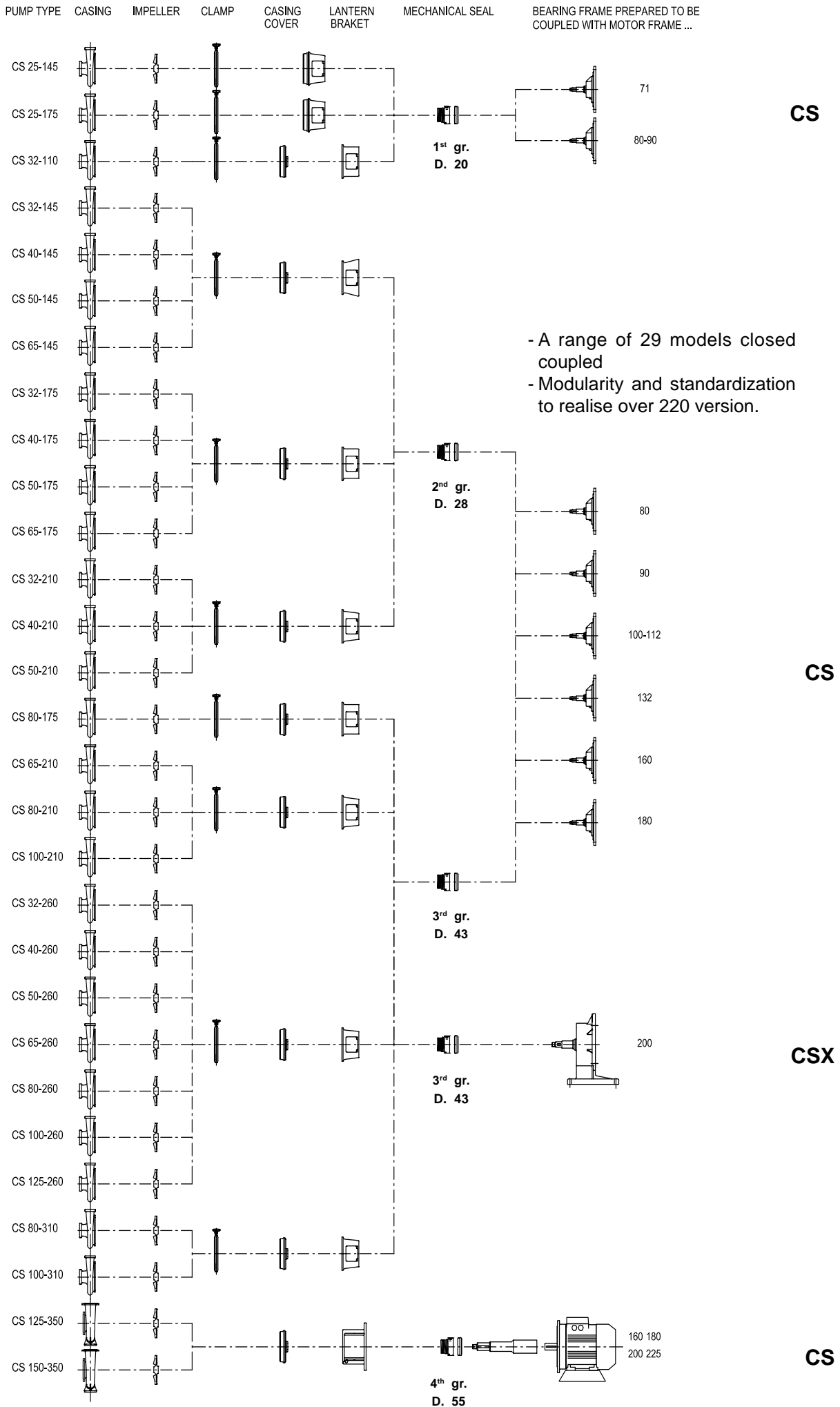
Malt and water mixing, malt must, yeast.

CHEMICALS

Photographic solutions, acid solutions, basic solutions, alkaline solutions, waste water containing crystals, detergents, solvents.

Water conditioning, Evaporation, Distillation, Reverse osmosis, Filtration, Extraction, Carbonation, Heating/pressure increase, Fermentation, Emulsifying, Homogenised re-processing, Mechanical separation, Bottling, Dosing, Degassing, Transfer, Cleaning applications / CIP, In-line mixing.

CS - CSX SERIES



VARIOUS EXECUTIONS



CS

Close coupled centrifugal pump with open impeller, adjustable feet and shroud.



CS

Execution with B3B5 motor without shroud



CSX

CS pump X execution. Close coupled execution with an independent support composed of two grease lubricated bearings.



CSK

Execution with double separate support with oil lubricated bearings.



Pump **CS** 4th group closed coupled

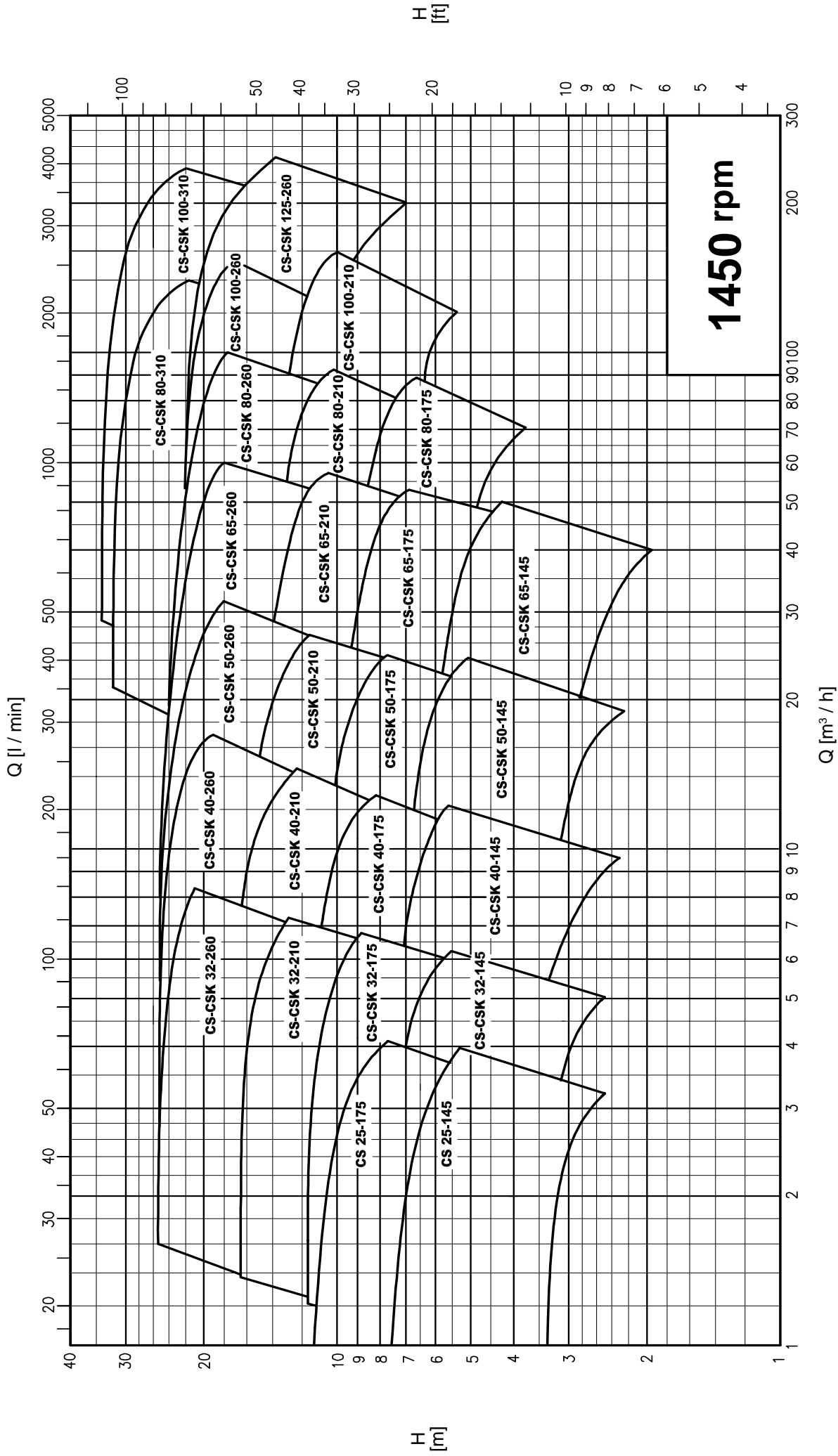


CSD

Aseptic execution with steam barrier.

GENERAL DIAGRAM CS - CSK

1450 rpm



Performance applies to H₂O at 20 °C, 1013 millibar

Rev. 01

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Rev. 00

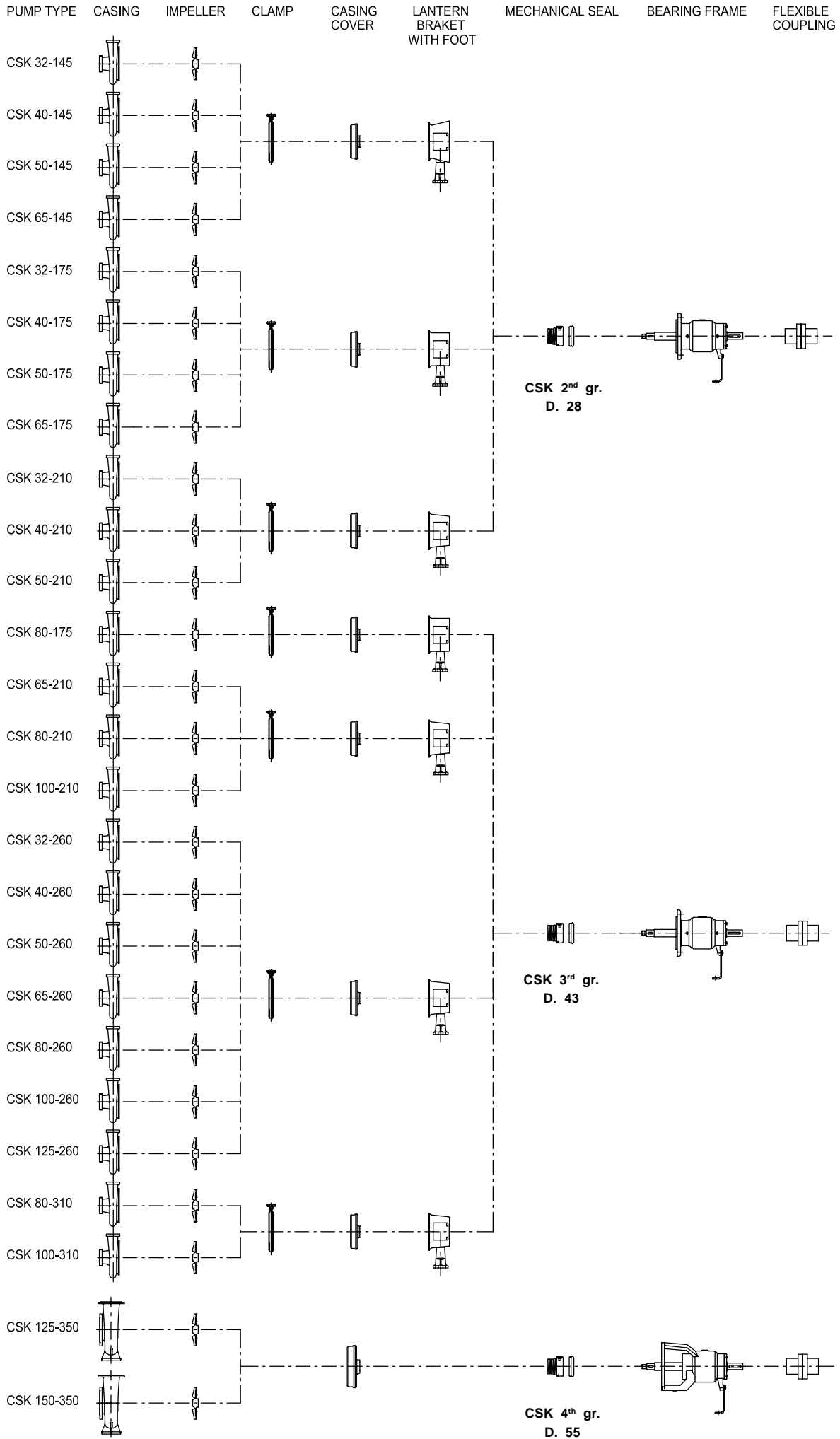
GENERAL DIAGRAM CS - CSK**2900
rpm**

The diagram shows performance curves for various pump models at 2900 rpm. The y-axis represents head (H) in meters [m] and feet [ft], ranging from 4 to 100. The x-axis represents flow rate (Q) in liters per minute [l/min] and cubic meters per hour [m³/h], ranging from 40 to 5000. The curves are labeled with pump models such as CS 25-175, CS 25-145, CS 32-110, CS-CSK 32-260, CS-CSK 40-260, CS-CSK 50-260, CS-CSK 80-260, CS-CSK 100-260, CS-CSK 32-210, CS-CSK 40-210, CS-CSK 50-210, CS-CSK 80-210, CS-CSK 100-210, CS-CSK 25-175, CS-CSK 32-175, CS-CSK 40-175, CS-CSK 50-175, CS-CSK 80-175, CS-CSK 100-175, CS-CSK 32-145, CS-CSK 40-145, CS-CSK 50-145, CS-CSK 80-145, CS-CSK 100-145, CS-CSK 65-175, CS-CSK 65-145, CS-CSK 65-210, CS-CSK 65-260, CS-CSK 80-175, CS-CSK 80-210, CS-CSK 80-260, CS-CSK 100-175, CS-CSK 100-210, CS-CSK 100-260.

Performance applies to H₂O at 20 °C, 1013 millibar

Data not binding

CSK SERIES

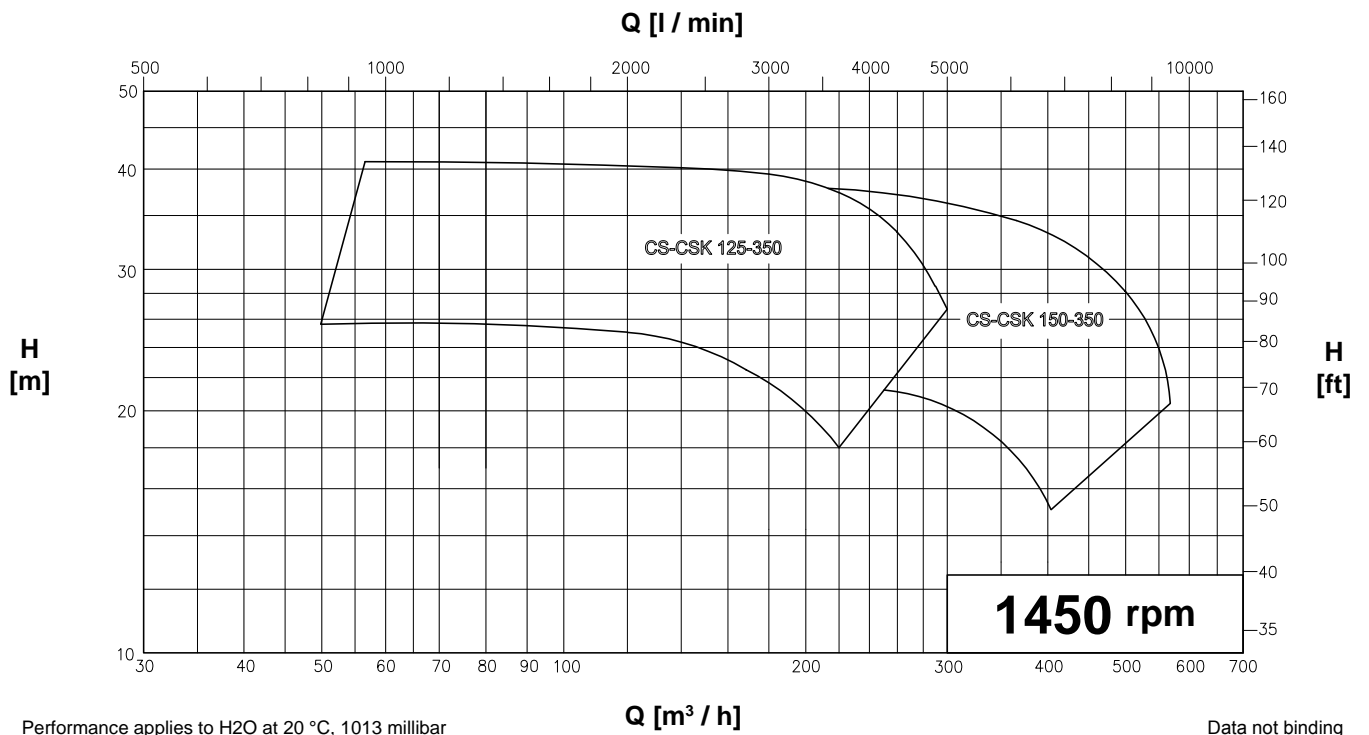
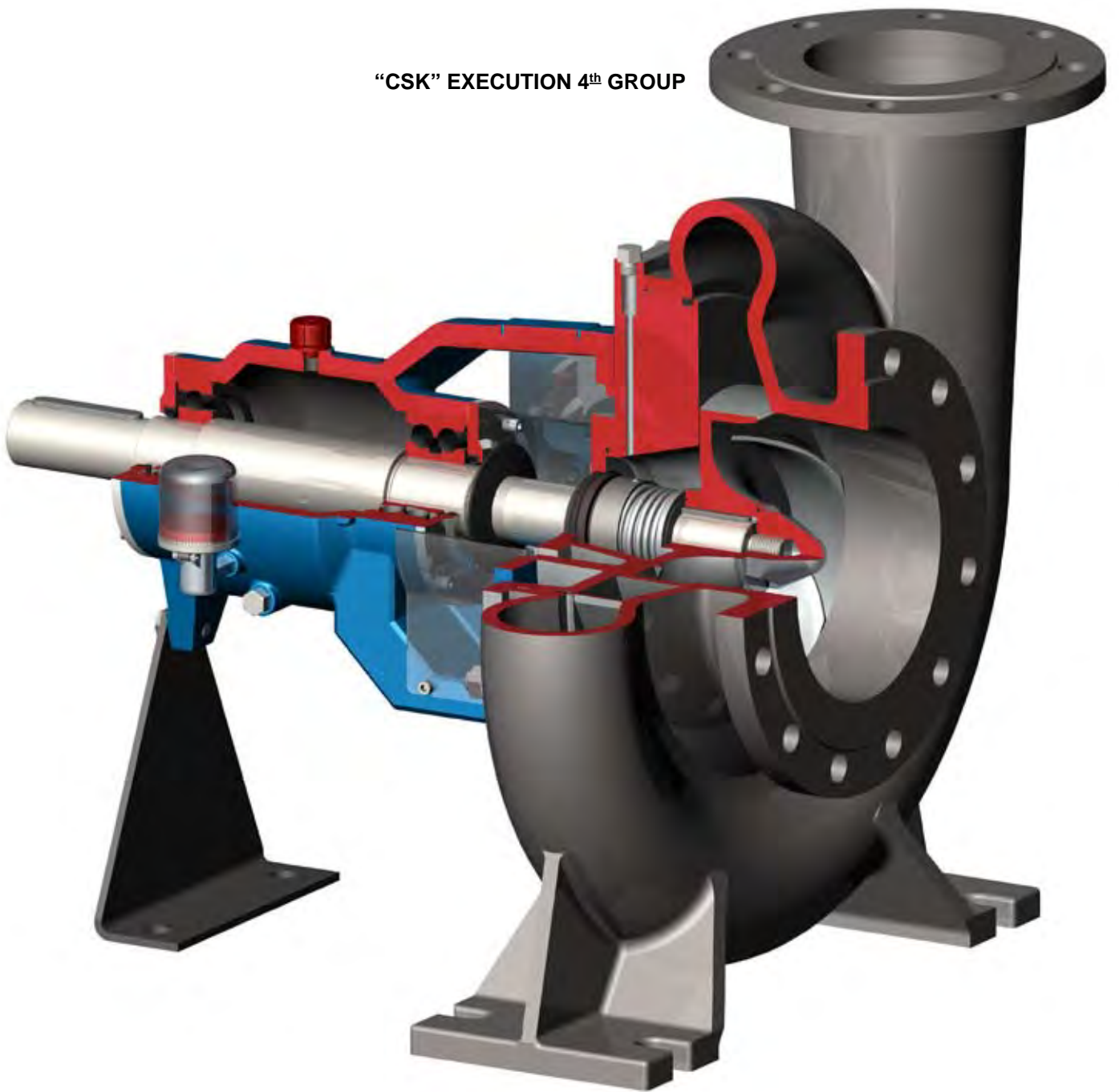


CSK 2nd gr.
D. 28

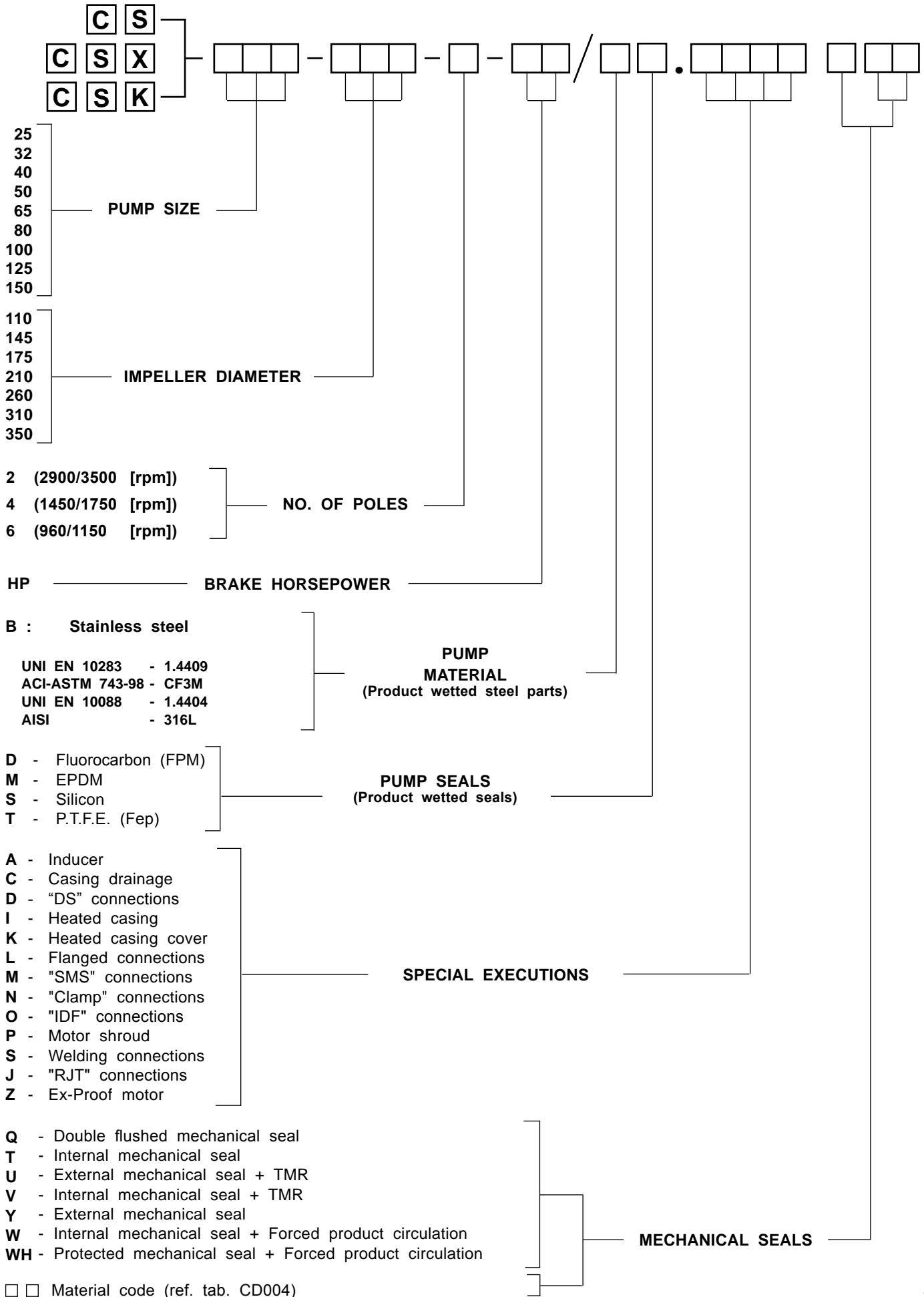
CSK 3rd gr.
D. 43

CSK 4th gr.
D. 55

“CSK” EXECUTION 4th GROUP



PUMP CODES GUIDE

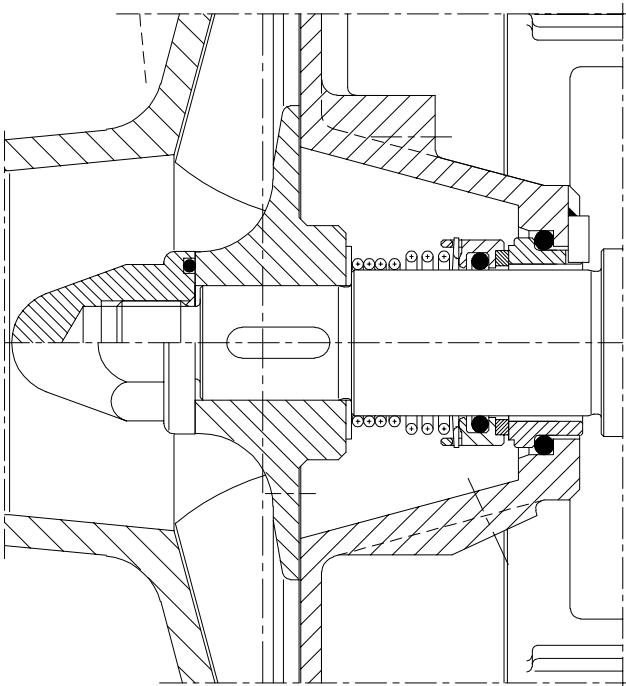


Example: **CS 80-175-2-20/BM.LPT31**

MECHANICAL SEALS

Mechanical seals with standardized seats according to the following standards are fitted on CS pumps:
EN 12756, ISO 3069.

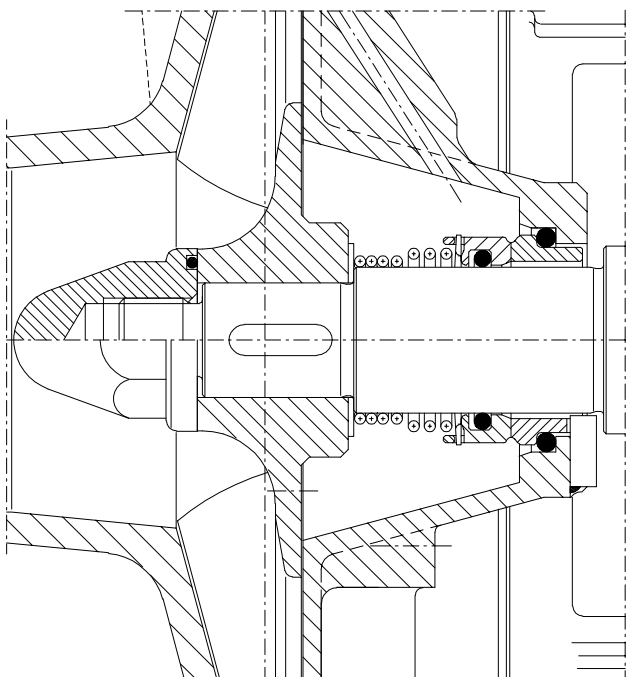
Thanks to the different materials available the customer can choose the most suitable versions among the many available, depending on the product to be pumped, the temperatures and working performance. The various applications meet and resolve the widest variety of installation and operational conditions.



EXECUTIONS **T**

STANDARD MECHANICAL SEAL "T"

The standard version entails the installation of an internal mechanical seal, dipped in the product and fitted behind the impeller in a suitable conic chamber in order to ensure correct lubrication conditions.



EXECUTION **W**

MECHANICAL SEAL WITH "W" CIRCULATION

Internal mechanical seal with forced circulation of the pumped liquid to restrict the working temperature, to eliminate air and steam bubbles, to improve lubrication and avoid residues or deposits on the seal.



MECHANICAL SEALS

MATERIAL CODES

METALS

H - Nickel-plated stainless steel AISI 304

X - Stainless steel AISI 316L

L - Hastelloy (Ni alloy)

CARBONS

V - Normal carbon

Z - Special carbon

RESINS

5 - Normal PTFE

4 - Loaded PTFE

F - O-Ring FEP

METAL OXIDES

2 - Alumina ceramic

METAL CARBONS

3 - Hard metal welded on stainless steel (TUC)

R - Integral anti-corrosion hard metal (TUC)

K - Integral silicate carbon (SIC)

ELASTOMERS

6 - Nitrile (NBR)

7 - Ethylene propylene (EPDM)

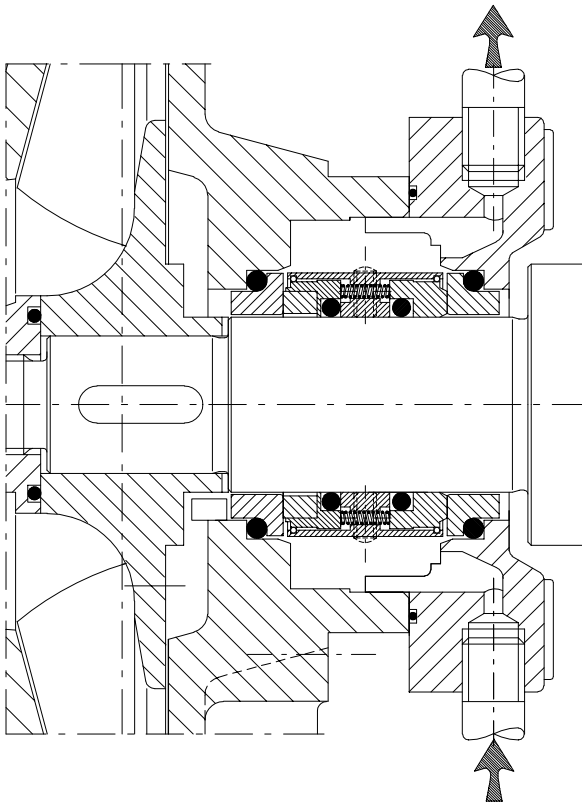
W - FPM for high T

Y - Fluorocarbon (FPM)

B - Silicone

Q - Chemraz

U - Kalrez



EXECUTION Q

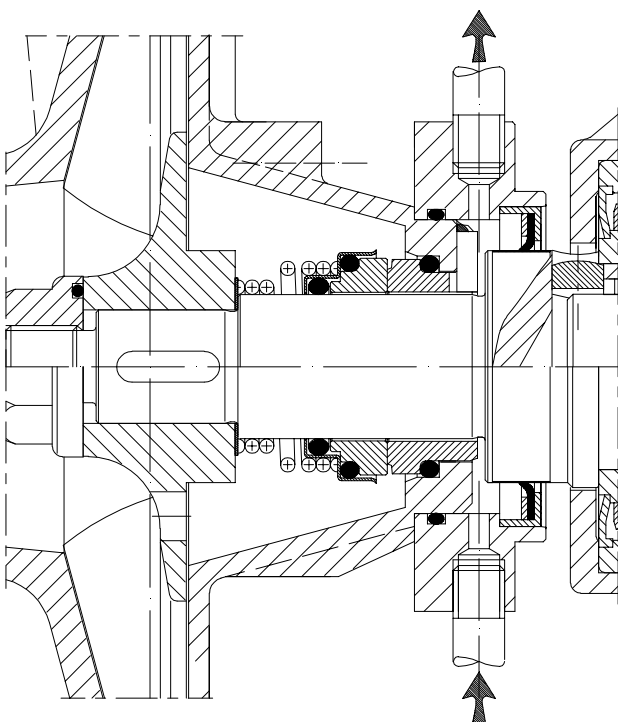
COMPACT DOUBLE MECHANICAL SEAL "Q"

Double mechanical seal with circulation of the cleaning and cooling liquid.

It is used with products that tend to crystallise, to glue, to harden, to be abrasive and corrosive, to reach high temperatures and whenever the internal single seal life is limited.

The function of the fluxing is to clean, lubricate and cool the seal; the circulating liquid must be clean.

If the seal is leaking the fluxing liquid will point out this fault.



EXECUTION V

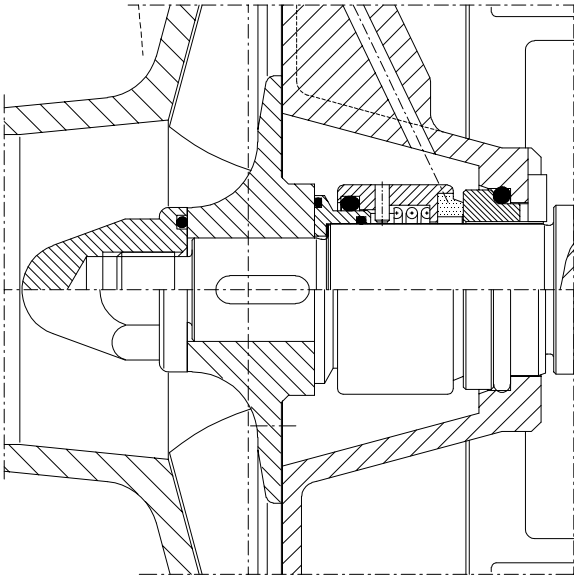
INTERNAL MECHANICAL SEAL ASSEMBLY "V"

The external liquid circulation chamber creates a protective barrier and prevents any damages to the electric motor and contamination of the environment, due to the possible leakage of the internal mechanical seal with aggressive or toxic liquids.

The function of the flushing is to clean the seal surfaces in order to limit the wear.



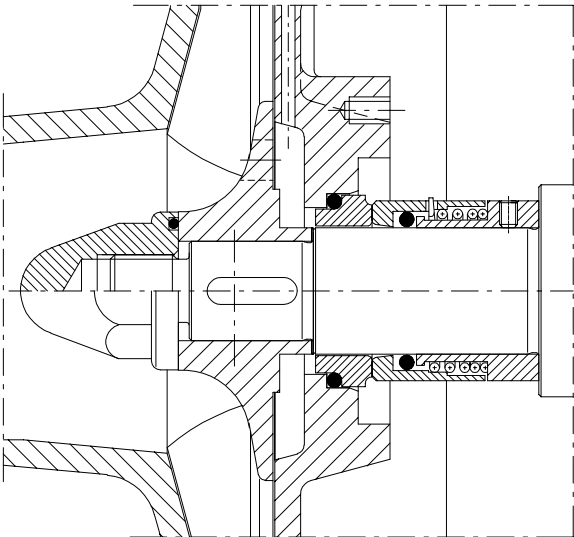
MECHANICAL SEALS



EXECUTION **WH**

INTERNAL MECHANICAL SEAL "WH"

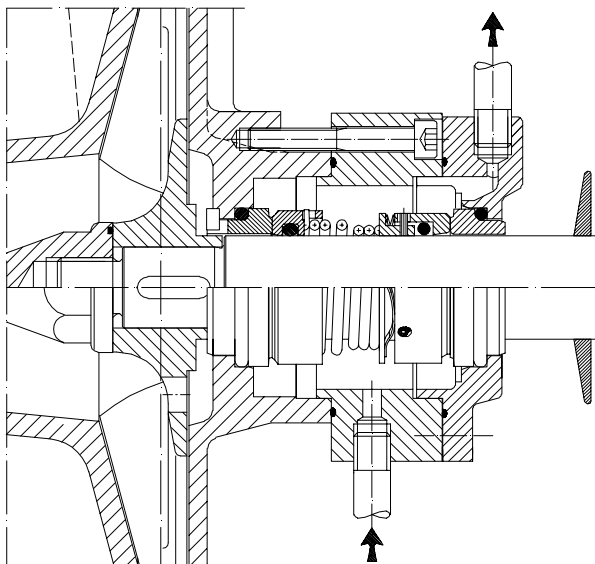
Protected and balanced execution with forced circulation of the liquid pumped. It is suitable for viscous and dirty products, for vacuum applications or those subject to differences in pressure. It is easily cleaned and therefore ideal for sanitary and pharmaceutical applications etc.



EXECUTION **Y**

EXTERNAL MECHANICAL SEAL "Y"

For all cases where the mechanical seal must not touch the pumped product, in order to avoid sanitary problems, corrosion and conditioning of its running.



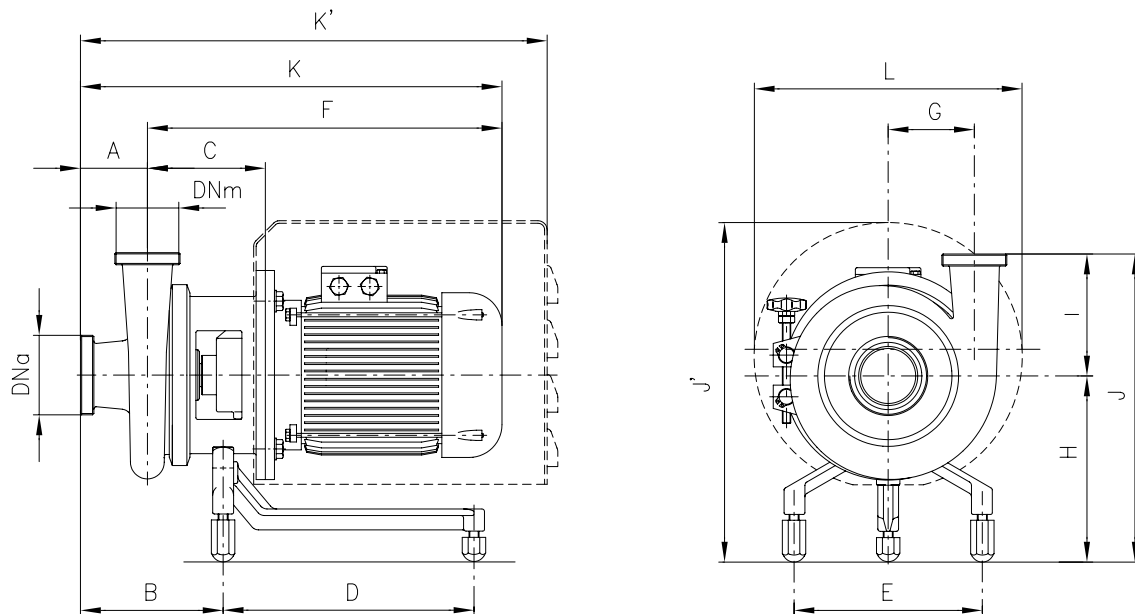
EXECUTION **Q** FOR CSK SERIES

DOUBLE MECHANICAL SEAL "Q"

Double mechanical seal (back-to-back) with liquid circulation. The function of the fluxing is to clean, lubricate and cool the seal; the circulating liquid must be clean. It is used with products that tend to crystallise, to glue, to harden, to be highly abrasive, to reach high temperatures and whenever the seal life is limited.



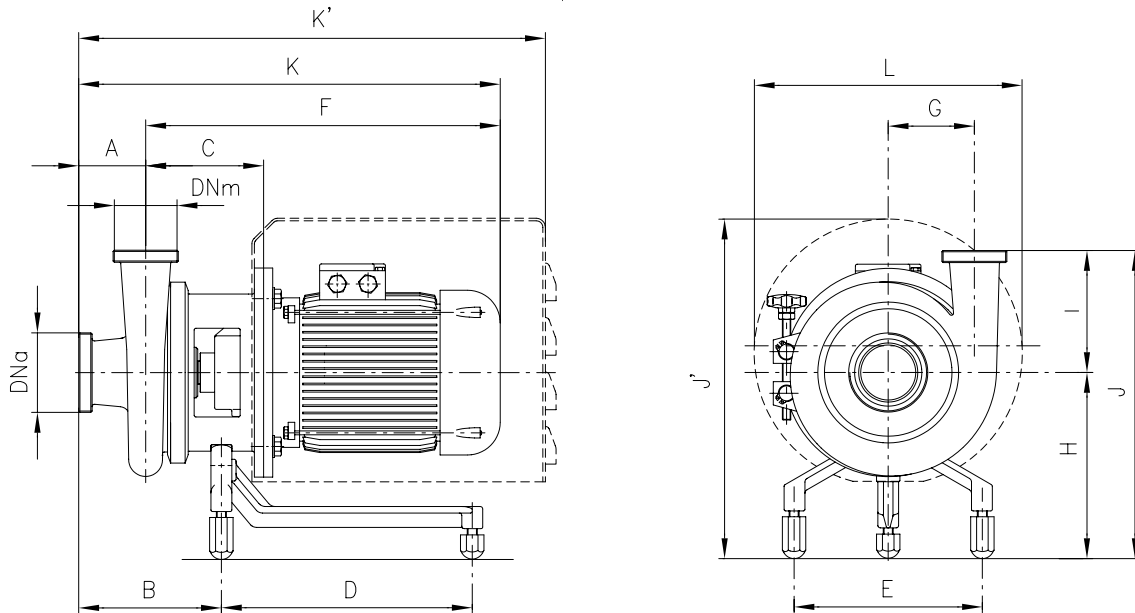
MOTOR POWER FROM 0,37 kW TO 4 kW (SIZE IEC 71-112)



Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors

Pumps	kW	DNa	DNm	A	B	C	D	E	F	G	H	K	K'	I	J	J'	L	Weight kg				
CS 25-145	0,37	32	25	75	144	117	190	178	335	81	158	410	532	145	303	300	239	21,5				
	0,55					123			359			434	541			340	298					
	0,75																					
CS 25-175	0,37	32	25	65	134	117	190	178	335	96	164	400	522	149	313	306	239					
	0,55					123			359			424	531			346	298					
	0,75																					
CS 32-110	0,37	40	32	70	137	117	190	178	335	65	149	405	527	110	259	291	239					
	0,55					123			359			429	536			331	298					
	0,75																					
CS 32-145	0,55 0,75	40	32	80	167	138	231	225	374	85	208	454	566	145	353	372	298					
CS 32-175	0,55	40	32	80	167	139	231	225	375	95	213	455	567	150	363	377	298					
	0,75								419			499										
	1,1																					
CS 32-210	0,75	40	32	80	158	139	231	225	375	110	221	455	567	165	386	385	298	36				
	1,1								419			499										
	1,5																					
	2,2																					
CS 32-260	2,2	50	32	90	184	163	231	225	443	140	221	533	601	172	393	385	298					
	3								480			238	570					670	410	443	330	
	4								492				582									
CS 40-145	0,55	50	40	80	168	139	231	225	375	90	208	455	567	133	341	372	298					
	0,75								377			457										
	1,1								421			501	569					150	363	377	298	
CS 40-175	1,5	50	40	80	169	141	231	225	377	95	213	457	569	150	363	377	298					
	0,75								377			457										
	1,1								421			501	569					165	386	385	298	42,5
	1,5																				40	
CS 40-210	2,2	50	40	80	161	141	231	225	377	115	221	457	569	165	386	385	298	42,5				
	3								421			501	569					165	386	385	298	40
	4																					
CS 40-260	1,5	50	40	100	194	163	231	225	443	145	221	543	611	172	393	385	298	63				
	2,2								443			238	538					638	403	443	330	53
	3								480			238	580					680	410	443	330	
	4								492				592									
CS 50-145	0,75	65	50	80	170	141	231	225	377	95	208	457	569	145	353	372	298					
	1,1								421			501										
	1,5																					

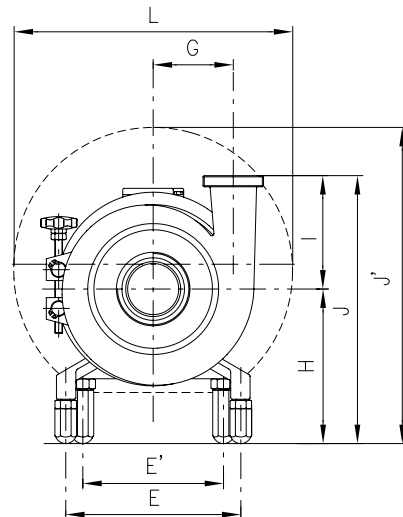
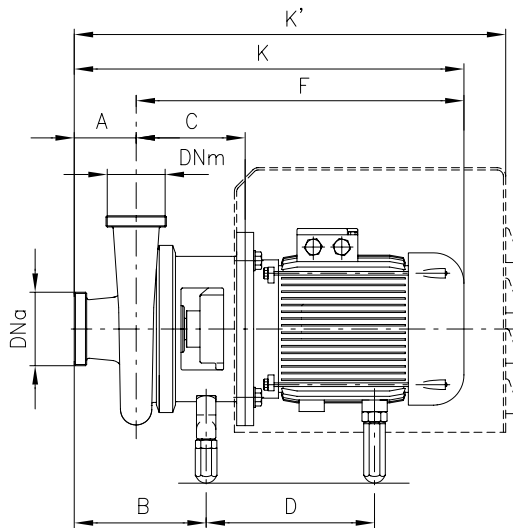
MOTOR POWER FROM 0,55 kW TO 4 kW (SIZE IEC 80-112)



Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors

Pumps	kW	DNa	DNm	A	B	C	D	E	F	G	H	K	K'	I	J	J'	L	Weight kg
CS 50-175	0,55	65	50	80	169	141	231	225	377	100	213	457	569	150	363	377	298	
	0,75								501									
	1,1					142	301		421		230	538	638		380	435		330
	1,5								458									
	2,2								470			550						
3																		
4																		
CS 50-210	1,1	65	50	80	161	141	231	225	421	120	221	501	569	165	386	385	298	
	1,5					142	301		458		238	538	638		402	443	330	
	2,2								470			550						
	3																	
4																		
CS 50-260	2,2	65	50	90	185	165	301	225	481	145	238	571	671	175	413	443	330	68
	3								493			583						75
4																		
CS 65-145	0,55	80	65	79	173	145	231	225	381	112	208	460	572	145	353	372	298	
	0,75								425			504						
CS 65-175	1,1	80	65	80	172	144	231	225	424	120	213	504	572	150	363	377	298	
	1,5					145	301		461			230						541
	2,2								473		553							
	3																	
4																		
CS 65-210	1,1	80	65	90	189	168	231	225	448	135	221	538	605	165	386	385	298	
	1,5					169	301		485			238						575
	2,2								497		587							
	3																	
4																		
CS 65-260	2,2	80	65	100	198	168	301	225	484	155	238	584	684	205	443	443	330	
	3								496			596						
4																		
CS 80-175	2,2	100	80	100	204	174	301	225	490	139	230	590	690	164	394	435	330	
	3								502			602						
	4																	
CS 80-210	2,2	100	80	100	201	171	301	225	487	145	238	587	687	165	403	443	330	66,5
	3								499			599						
	4								487			587						
CS 80-260	3	100	80	100	201	171	301	225	487	165	238	587	687	209	447	443	330	
	4								499			599						

MOTOR POWER FROM 5,5 kW TO 18,5 kW (SIZE IEC 132-160)



Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors

Pumps	kW	DNa	DNm	A	B	C	D	E	E'	F	G	H	K	K'	I	J	J'	L	Weight kg
CS 65-260	5,5	80	65	100	198	190	318	225	198	600	155	238	700	784	205	443	460	370	
	7,5																		
CS 80-175	5,5	100	80	100	204	195	316	225	198	603	139	230	703	787	164	394	452	370	
	7,5																		
CS 80-210	5,5	100	80	100	201	193	318	225	198	603	145	238	703	787	165	403	460	370	
CS 80-260	5,5	100	80	100	201	193	318	225	198	603	165	238	703	787	209	447	460	370	
	7,5																		
CS 80-310	9,2	100	80	100	202	235	495	225	254	767	200	250	867	994	250	500	560	480	
	11																		
CS 100-210	15	125	100	111	219	200	318	225	198	610	161	238	721	805	214	452	460	370	
	7,5																		
CS 100-260	9,2	125	100	115	218	235	318	225	198	605	186	238	720	804	216	454	460	370	
	11																		
CS 100-310	15	125	100	115	221	239	495	225	254	771	214	250	886	1013	259	509	560	480	
	18,5																		
CS 125-260	22	150	125	110	223	203	318	225	198	613	206	238	723	621	216	454	460	370	
	9,2																		
CS 125-260	11	150	125	110	223	244	450	225	254	771	206	247	881	979	216	463	555	478	
	15																		
CS 125-260	18,5	150	125	110	223	244	494	225	279	798	206	247	908	979	216	463	555	478	
	11																		

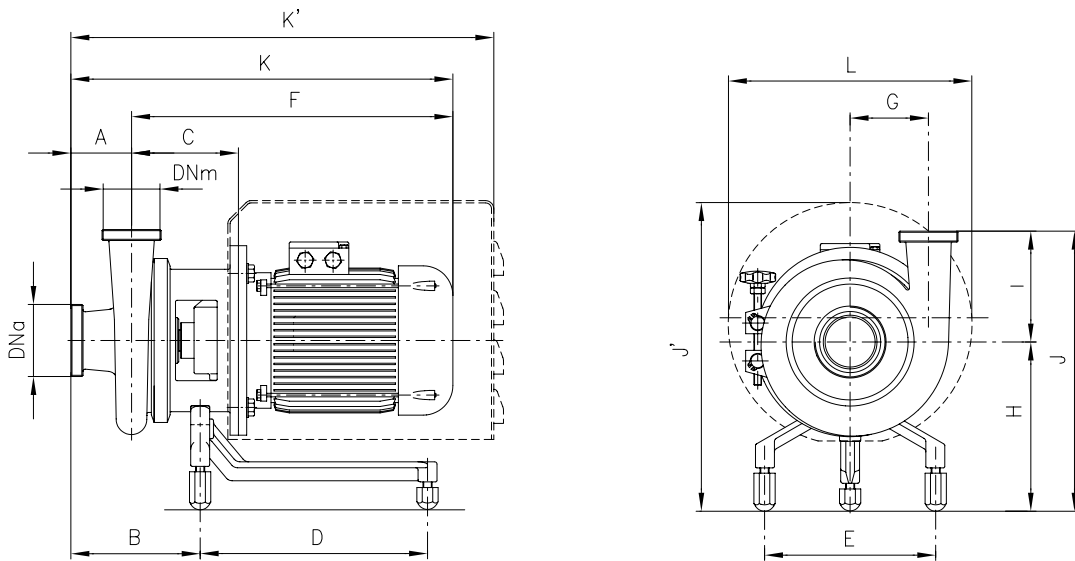


PUMP SERIES "CS" WITH TROLLEY



PUMPS SERIES "CS" WITHOUT SHROUD

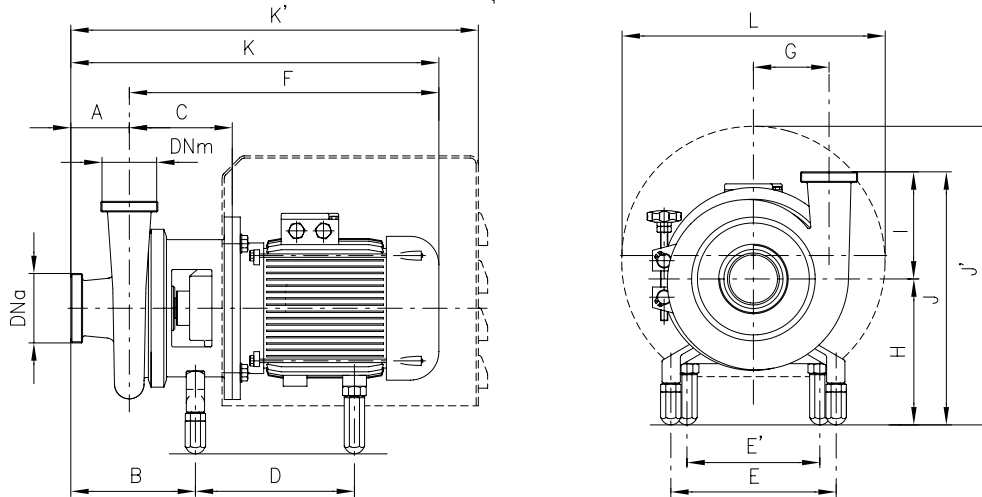
MOTOR POWER FROM 0,55 kW TO 4 kW (SIZE IEC 71-112)



Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors

Pumps	kW	DNa	DNm	A	B	C	D	E	F	G	H	K	K'	I	J	J'	L	Weight kg
CS 25-145	0,55	32	25	75	144	117	190	178	335	81	158	410	532	145	303	300	239	
	0,75					359			434			541						
	1,1					403			478									
	1,5																	
	2,2																	
CS 25-175	0,75	32	25	65	134	123	190	178	359	96	164	424	531	149	313	346	298	
	1,1					403			468			619						
	1,5					454			519			619						
	2,2					466			531			619						
	3					138			301			225	210					
4																		
CS 32-110	0,55	40	32	70	137	117	190	178	335	65	149	405	527	110	259	291	239	
	0,75					123			359			429	536					
	1,1					403			473									
CS 32-145	0,75	40	32	80	167	138	231	225	374	85	208	454	566	145	353	372	298	
	1,1					418			498			635						
	1,5					455			535			635						
	2,2					467			547			635						
	3					139			301			225	225					
4																		
CS 32-175	1,5	40	32	80	167	139	231	225	419	95	213	499	567	150	363	377	298	
	2,2					456			536			636						
	3					468			548			636						
	4					140			301			225	230					
CS 32-210	3	40	32	80	158	140	301	225	456	110	238	536	636	165	403	443	330	
	4					468			548			636						
CS 40-145	1,5	50	40	80	168	139	231	225	418	90	208	498	567	133	341	372	298	
	2,2					455			535			636						
	3					467			547			636						
	4					140			301			225	225					
CS 40-175	2,2	50	40	80	169	141	231	225	421	95	213	501	569	150	363	377	298	
	3					458			538			638						
	4					470			550			638						
						142			301			225	230					
CS 40-210	3	50	40	80	161	142	301	225	458	115	238	538	638	165	403	443	330	
	4					470			550			638						
CS 50-145	1,5	65	50	80	170	141	231	225	421	95	208	501	569	145	353	372	298	
	2,2					458			538			638						
	3					470			550			638						
	4					142			301			225	225					
CS 50-175	3	65	50	80	169	142	301	225	458	100	230	538	638	150	380	435	330	
	4					470			550			638						
CS 65-145	3	80	65	79	173	146	301	225	462	112	225	541	642	145	370	430	330	
	4					474			553			642						

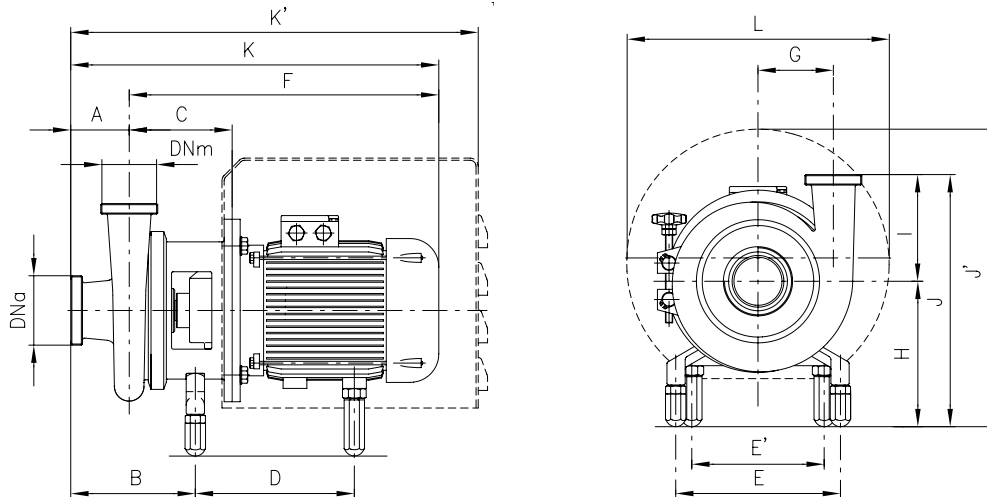
MOTOR POWER FROM 5,5 kW TO 22 kW (SIZE IEC 132-180)



Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors

Pumps	kW	DNa	DNm	A	B	C	D	E	E'	F	G	H	K	K'	I	J	J'	L	Weight kg				
CS 32-210	5,5	40	32	80	158	161	309	225	198	571	110	238	651	735	165	403	460	370	81				
	7,5					206	446		254	733			813	907			546	478					
	9,2																						
	11																						
CS 32-260	5,5	50	32	90	184	185	318	225	198	595	140	238	685	769	172	410	460	370	105				
	7,5					225	450		254	752			247	842			940	419	555	478			
	9,2																						
	11																						
CS 40-175	5,5	50	40	80	169	164	301	225	198	574	95	230	654	738	150	380	452	370	74				
	7,5				161	208	438		254	735			115	238			815	909	165	403	546	478	
	9,2																						
	11																						
CS 40-210	5,5	50	40	80	161	164	309	225	198	574	115	238	654	738	165	403	460	370	82,5				
	7,5					208	446		254	735			815	909			546	478					
	9,2																						
	11																						
CS 40-260	7,5	50	40	100	194	185	318	225	198	595	145	238	695	779	172	410	460	370	101,5				
	9,2					225	450		254	752			247	852			950	419	555	478			
	11																						
	15																						
CS 50-145	5,5	65	50	80	170	164	300	225	198	574	95	225	654	738	145	370	447	370	72,5				
	7,5																						
	9,2																						
	11																						
CS 50-175	5,5	65	50	80	169	164	301	225	198	574	100	230	654	738	150	380	452	370	75				
	7,5					208	438		254	735			815	909			538	478					
	9,2																						
	11																						
CS 50-210	5,5	65	50	80	161	164	309	225	198	574	120	238	654	738	165	403	460	370	85				
	7,5					208	446		254	735			815	909			546	478					
	9,2																						
	11																						
CS 50-260	15	65	50	90	186	228	450	225	254	755	145	247	845	943	175	422	555	478	121,5				
	18,5					228	494		279	782			872										
	22																						
CS 65-145	5,5	80	65	79	173	168	300	225	198	578	112	225	657	741	145	370	447	370	82				
	7,5					212	437		254	739			818	912			533	478					
	9,2																						
	11																						
CS 65-175	5,5	80	65	80	172	167	301	225	198	577	120	230	657	741	150	380	452	370	120				
	7,5					211	438		254	738			818	912			538	478					
	9,2																						
	11																						
CS 65-175	15	80	65	80	173	224	493	225	279	778	120	241	858	929	150	391	538	478	120				
	18,5																						
	22																						

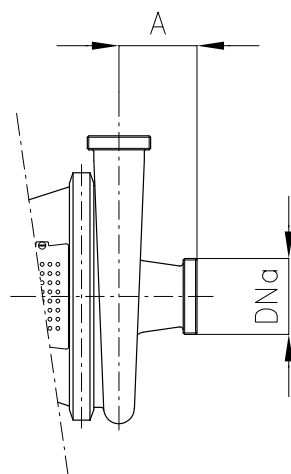
MOTOR POWER FROM 11 kW TO 22 kW (SIZE IEC 160-180)



Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors

Pumps	kW	DNa	DNm	A	B	C	D	E	E'	F	G	H	K	K'	I	J	J'	L	Weight kg
2900 rpm																			
CS 65-210	11	80	65	90	189	231	450	225	254	758	135	247	848	946	165	412	555	478	134
	15						494		785	875			143						
	18,5																		
CS 65-260	15	80	65	100	198	230	450	225	254	757	155	247	857	955	205	452	555	478	
	18,5						494		784	884									
	22																		
CS 80-175	11	100	80	100	205	236	449	225	254	763	139	241	863	961	164	405	549	478	140,5
	15						493		790	890									
	18,5																		
CS 80-210	15	100	80	100	201	233	450	225	254	760	145	247	860	958	164	411	555	478	
	18,5						494		787	887									
	22																		
CS 100-210	22	125	100	111	219	240	494	225	279	794	161	247	905	976	214	461	555	478	

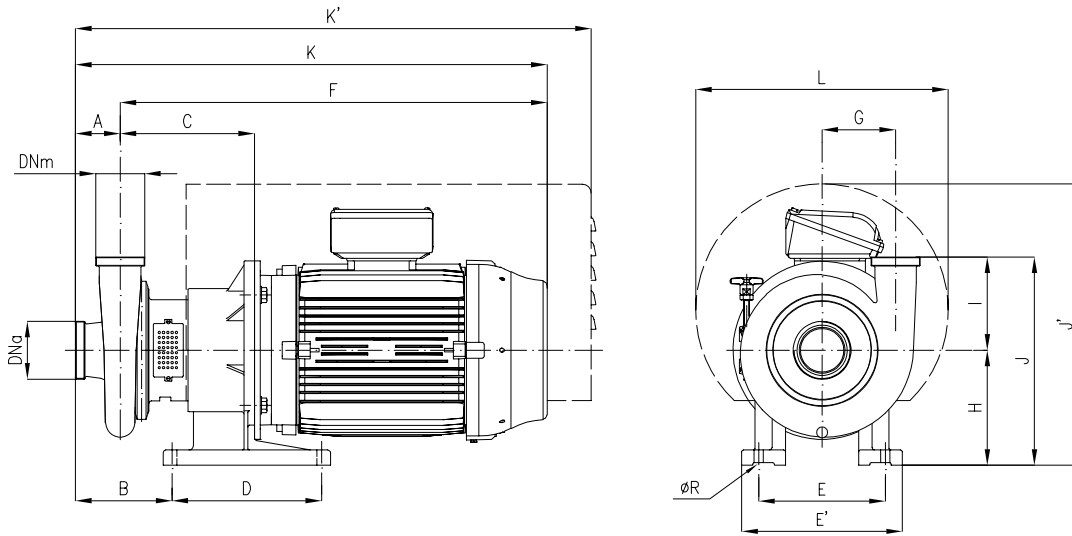
Pumps	DNa	A
CS 32-145	65	80
CS 32-175	65	85
CS 32-210	65	85
CS 32-260	65	98
CS 40-145	65	85
CS 40-175	65	89,5
CS 40-210	80	75,5
CS 40-260	80	106
CS 50-145	80	85
CS 50-175	80	85
CS 50-210	80	85
CS 50-260	80	90
CS 65-145	100	88
CS 65-175	100	105
CS 65-210	100	107
CS 65-260	100	108
CS 80-145	-	-
CS 80-175	125	135
CS 80-210	125	127,5
CS 80-260	125	135
CS 80-310	125	135
CS 100-210	150	100
CS 100-260	150	100
CS 100-310	150	100
CS 125-260	-	-



In particularly critical inlet suction conditions with low available NPSH values, which are encountered for example in high vacuum extraction applications, liquids near to boiling point and limited available head, the special version equipped with inducer on the in-take port can be used.

This device is arranged immediately upstream of the impeller to reduce the NPSH value requested by the pump. It is advisable to always contact CSF INOX engineers for this type of application.

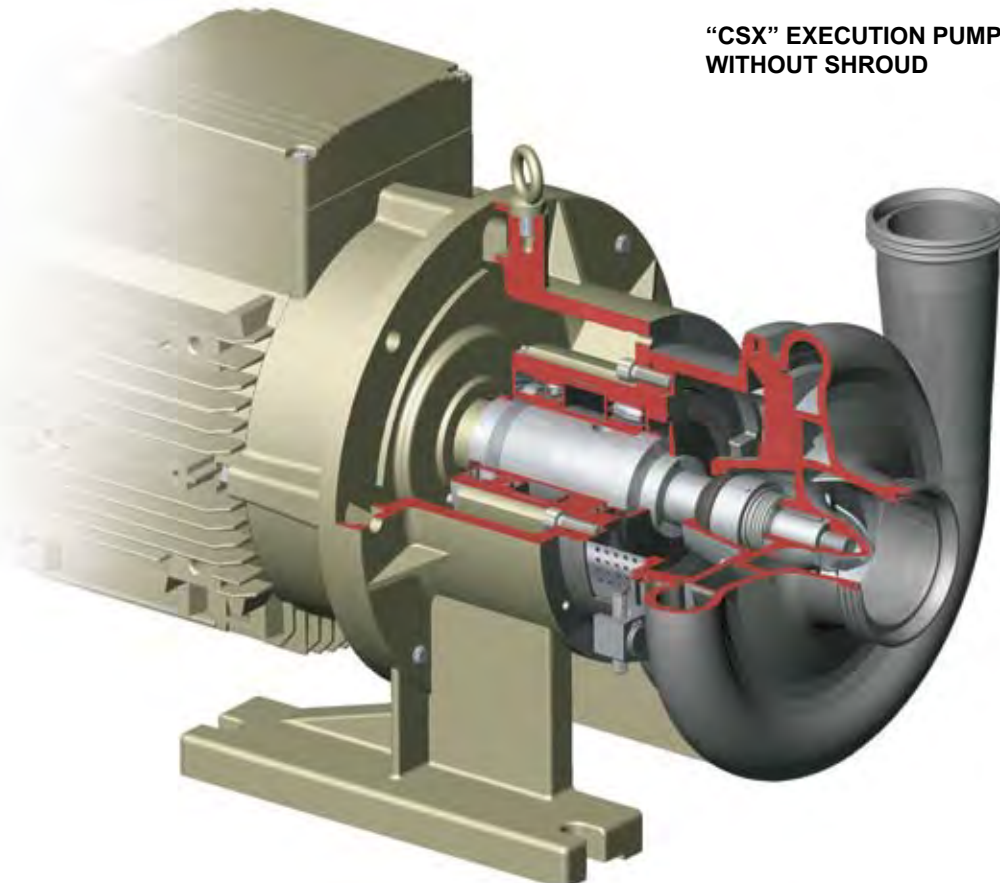
"X" EXECUTION FOR POWER OF 30 KW (SIZE IEC 200)



Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors

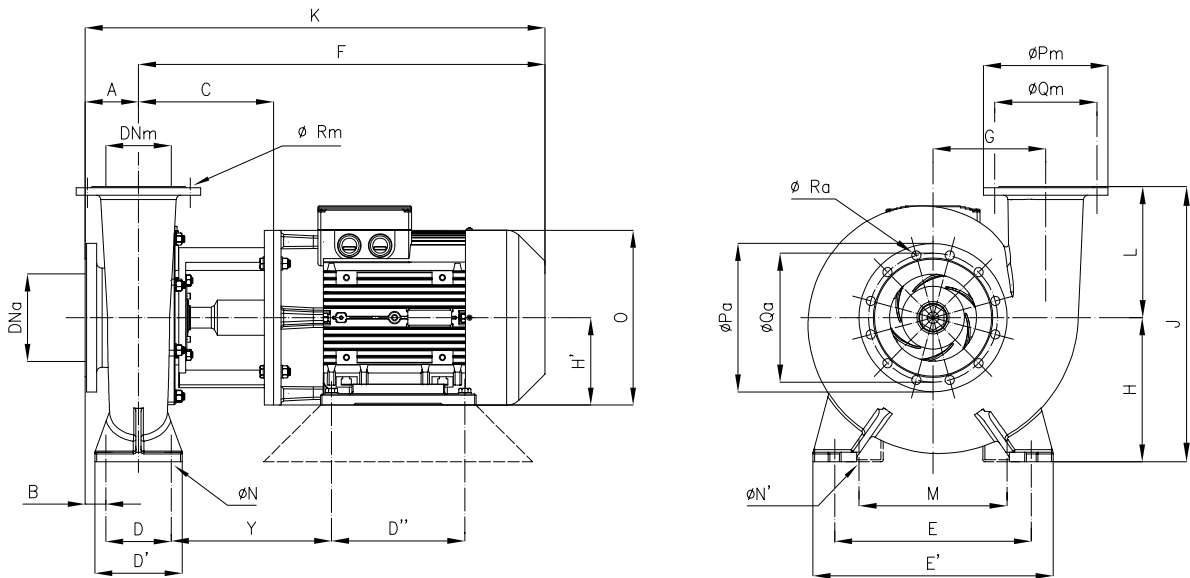
Pumps	rpm	kW	DNa	DNm	A	B	C	D	E	E'	F	G	H	K	K'	ØR	I	J	J'	L	Weight kg
CSX 50-260	2-4 poles	30	65	50	90	201	296	335	284	360	915	145	258	1005	1141	21	175	433	613	530	
CSX 65-260			80	65	100	213	298				917	155		1017	1153		205	463			
CSX 80-175			100	80	100	219	304				923	139		1023	1159		164	422			
CSX 80-210			100	80	100	216	301				920	145		1020	1156		164	422			
CSX 80-260			100	80	100	216	301				920	165		1020	1156		209	467			
CSX 80-310			100	80	100	218	303				964	200		1064	1154		250	508			
CSX 100-210			125	100	111	234	308				927	161		1038	1174		214	472			
CSX 100-260			125	100	115	233	303				922	186		1037	1173		216	474			
CSX 100-310			125	100	115	237	307				968	215		1083	1172		259	517			
CSX 125-260			150	125	110	237	312				931	206		1041	1177		216	474			

"CSX" EXECUTION PUMP WITHOUT SHROUD





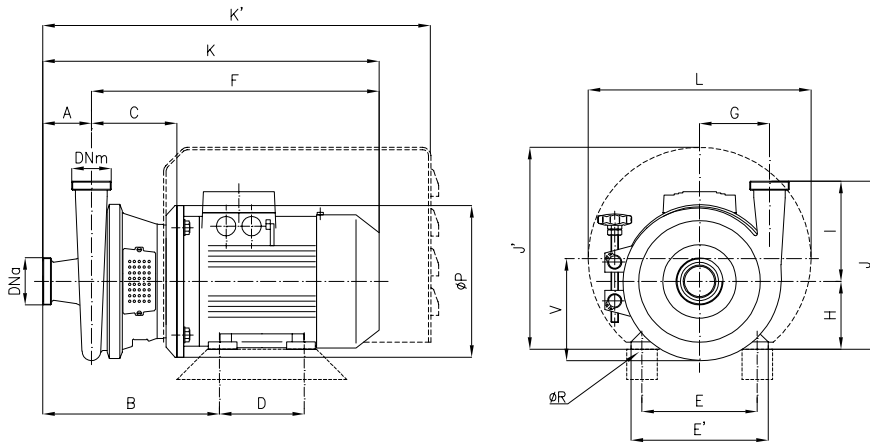
**PUMP SERIES "CS" 4th GROUP
CLOSED COUPLED**



Dimensions not binding - DN = Flanges EN 1092-1 PN 16

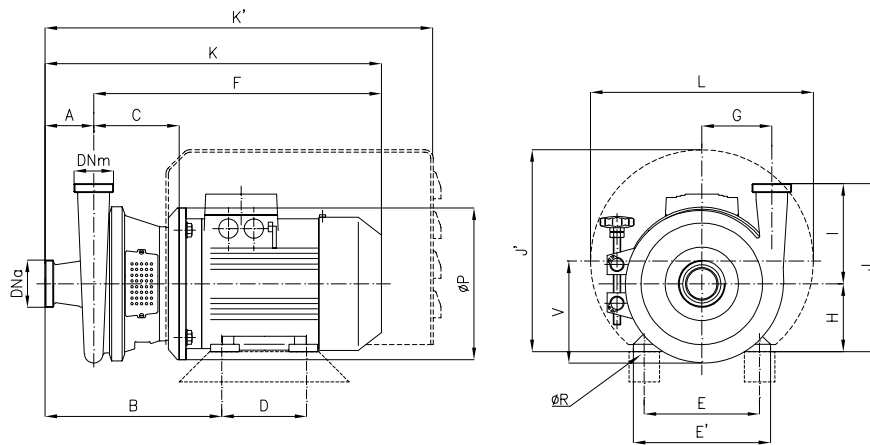
Pumps	kW	DNa	DNm	A	B	C	D	D'	D''	E	E'	F	G	H	H'	K	J	Y	L	M	N	N'	O	Ø Pa	Ø Pm	Ø Qa	Ø Qm	Ø Ra	Ø Rm	no. holes a	no. holes m	Weight kg					
CS 125-350	5,5	150	125	122	47	286	150	200	178	400	500	703	232	280	132	825	580	319	300	216	22	17	350	285	250	240	210	22	18	8	8						
	7,5								210			846								180													968	332	279	19	400
	9,2								254			846								180													968	332	279	19	400
	11								279			846								180													968	332	279	19	400
	15								303			913								200													1035	361	318	19	400
CS 150-350	7,5	200	150	122	47	292	150	200	210	450	550	770	258	330	160	892	630	325	300	254	22	17	350	340	285	295	240	22	22	12	8						
	9,2								254			852								180													974	338	279	19	400
	11								279			852								180													974	338	279	19	400
	15								309			919								200													1041	367	318	19	400
	18,5								309			919								200													1041	367	318	19	400

Pumps	kW	DNa	DNm	A	B	C	D	D'	D''	E	E'	F	G	H	H'	K	J	Y	L	M	N	N'	O	Ø Pa	Ø Pm	Ø Qa	Ø Qm	Ø Ra	Ø Rm	no. holes a	no. holes m	Weight kg					
CS 125-350	9,2	150	125	122	47	286	150	200	178	400	500	703	232	280	132	825	580	319	300	216	22	17	350	285	250	240	210	22	18	8	8						
	11								210			846								180													968	332	279	19	400
	15								254			846								180													968	332	279	19	400
	18,5								241			846								180													968	332	279	19	400
	22								279			846								180													968	332	279	19	400
CS 150-350	18,5	200	150	122	47	292	150	200	241	450	550	852	258	330	180	974	630	338	300	279	22	17	350	340	285	295	240	22	22	12	8						
	22								279			852								180													974	338	279	19	400
	30								309			919								200													1041	367	318	19	400
	37								333			983								225													1105	407	356	19	450
	37								333			983								225													1105	407	356	19	450



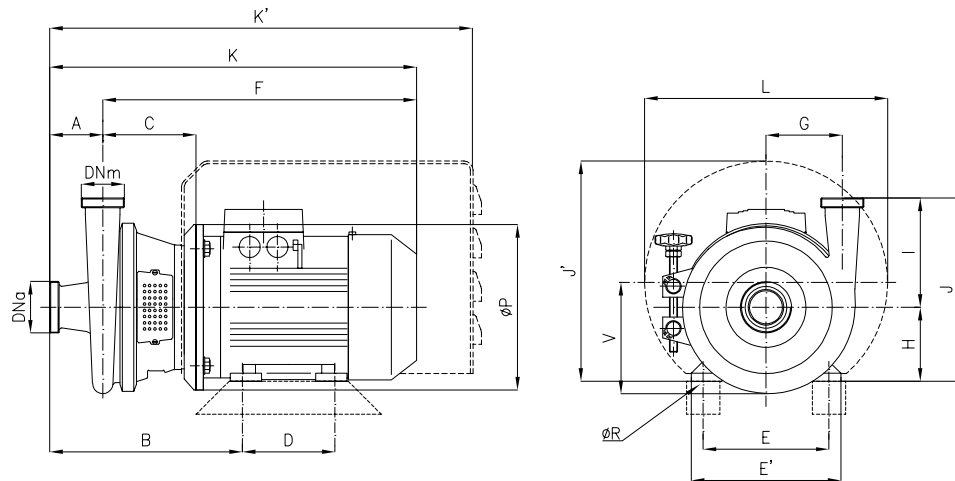
Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors

Pumps	kW	DNa	DNm	A	B	C	D	E	E'	F	G	H	K	K'	ØP	ØR	I	J	J'	L	V	Weight kg				
CS 25-145	0,37	32	25	75	237	117	90	112	132	335	81	71	410	532	160	7	145	216	213	239	91					
	0,55				248	123	100	125	150	359		80	434	541	200	9		225	262	298						
	0,75																									
CS 25-175	0,37	32	25	65	227	117	90	112	132	335	96	71	400	522	160	7	149	220	213	239	105					
	0,55				238	123	100	125	150	359		80	424	531	200	9		229	262	298						
	0,75																									
CS 32-110	0,37	40	32	70	232	117	90	112	132	335	65	71	405	527	160	7	110	181	213	239	78					
	0,55				243	123	100	125	150	359		80	429	536	200	9		190	262	298						
	0,75																									
CS 32-145	0,55	40	32	80	268	138	100	125	150	374	85	80	454	566	220	9	145	225	244	298	95					
	0,75																									
CS 32-175	0,55	40	32	80	269	139	100	125	150	375	95	80	455	567	220	9	150	230	244	298	109					
	0,75				275			140	165	419		90	499		220	9		10	240	254						
	1,1																									
CS 32-210	0,75	40	32	80	269	139	100	125	150	375	110	80	455	567	220	9	165	245	244	298	126					
	1,1				275		125	140	165	419		90	499		220	10		255	254							
	1,5																									
	2,2				283	140	140	160	196	456		100	536	636	250	12		265	305	330						
CS 32-260	1,1	50	32	90	309	163	100	140	165	443	140	90	533	601	200	10	172	262	254	298	153					
	1,5				317	164	140	160	196	480		100	570	670	250	12		272	305	330						
	2,2				324			190	226	492		112	582		250	12		284	317							
	3																									
CS 40-145	0,55	50	40	80	269	139	100	125	150	375	90	80	455	567	220	9	133	213	244	298	103					
	0,75				271			125	150	377		80	457		220	9		230	244							
CS 40-175	0,75	50	40	80	271	141	100	125	150	377	95	80	457	569	220	9	150	230	244	298	113					
	1,1				277		125	140	165	421		90	501		220	10		240	254							
	1,5																									
CS 40-210	0,75	50	40	80	271	141	100	125	150	377	115	80	457	569	220	9	165	245	244	298	131					
	1,1				277		125	140	165	421		90	501		220	10		255	254							
	1,5																									
	2,2				285	142	140	160	196	458		100	538	638	250	12		265	305	330						
CS 40-260	1,5	50	40	100	319	163	125	140	165	443	145	90	543	611	220	10	172	262	254	298	157					
	2,2				327	164	140	160	196	480		100	580	680	250	12		272	305	330						
	3				334			190	226	492		112	592		250	12		284	317							
CS 50-145	0,75	65	50	80	271	141	100	125	150	377	95	80	457	569	220	9	145	225	244	298	118					
	1,1				277		125	140	165	421		90	501		220	10		235	254							
	1,5																									
CS 50-175	0,55	65	50	80	271	141	100	125	150	377	100	80	457	569	220	9	150	230	244	298	124					
	0,75				277		125	140	165	421		90	501		220	10		240	254							
	1,1																									
	1,5				285	142	140	160	196	458		100	538	639	250	12		250	305	330						
CS 50-210	2,2	65	50	80	292			190	226	470	120	112	550		250	12	165	262	317	330	140					
	3				277	141	100	125	140	165		421	90	501	569	220		10	255			254	298			
	4				285	142	140	160	196	458		100	538	638	250	12		265	305			330				
					292			190	226	470		112	550		250	12		277	317							
CS 50-260	2,2	65	50	90	319	165	140	160	196	481	145	100	571	671	250	12	175	275	305	330	165					
	3				324				190	226		493	112	583		250		12	287			317				
	4																									



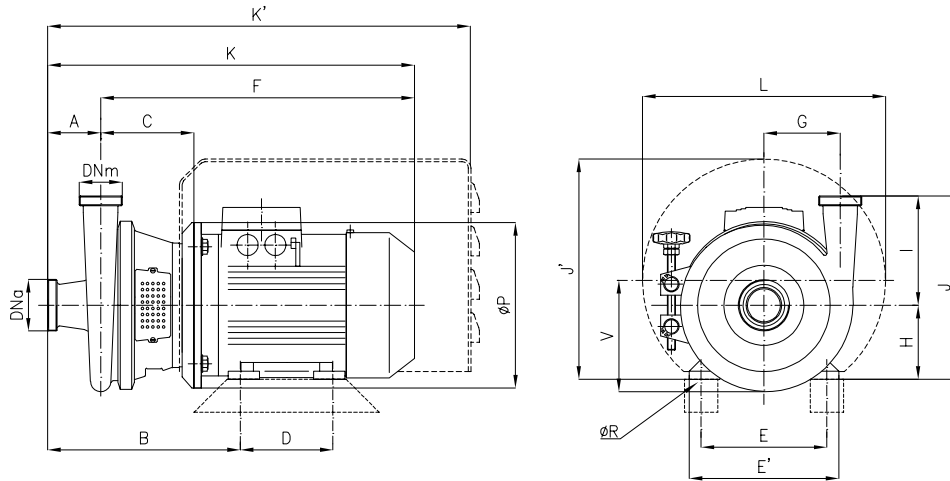
Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors

Pumps	kW	DNa	DNm	A	B	C	D	E	E'	F	G	H	K	K'	ØP	ØR	I	J	J'	L	V	Weight kg
CS 65-145	0,55	80	65	79	274	145	100	125	150	381	112	80	460	572	220	9	145	225	244	298	140	
	0,75						125	140	165	425		90	504	641	250	10		235	254			
	1,1						125	140	165	425		90	504	641	250	10		235	254			
CS 65-175	1,1	80	65	80	280	144	100	140	165	424	120	90	504	572	220	10	150	240	254	298	148	
	1,5						125	140	165	424		90	504	572	220	10		240	254			
	2,2						125	140	165	424		90	504	572	220	10		240	254			
CS 65-210	1,1	80	65	90	314	168	100	140	165	448	135	90	538	605	220	10	165	255	254	298	160	
	1,5						125	140	165	448		90	538	605	220	10		255	254			
	2,2						125	140	165	448		90	538	605	220	10		255	254			
CS 65-260	2,2	80	65	100	331	168	140	160	196	484	155	100	584	684	250	12	205	305	305	330	182	
	3						178	190	226	496		112	596	684	250			12	305			305
	4						178	190	226	496		112	596	684	250			12	305			305
CS 80-175	2,2	100	80	100	335	174	140	160	196	490	139	100	584	690	250	12	164	264	305	330	169	
	3						178	190	226	502		112	596	690	250			12	264			305
	4						178	190	226	502		112	596	690	250			12	264			305
CS 80-210	2,2	100	80	100	334	171	140	160	196	487	145	100	587	687	250	12	165	265	305	330	179	
	3						178	190	226	499		112	599	687	250			12	265			305
	4						178	190	226	499		112	599	687	250			12	265			305
CS 80-260	2,2	100	80	100	334	171	140	160	196	487	165	100	587	687	250	12	209	309	305	330	196	
	3						178	190	226	499		112	599	687	250			12	309			305
	4						178	190	226	499		112	599	687	250			12	309			305
CS 80-310	3	100	80	100	334	171	140	160	196	487	165	100	587	687	250	12	209	309	305	330	196	
	4						178	190	226	499		112	599	687	250			12	309			305
	5,5						178	190	226	499		112	599	687	250			12	309			305
CS 100-210	5,5	125	100	111	399	200	140	216	256	610	161	132	721	805	300	12	214	346	354	370	200	
	7,5						178	216	256	605		132	720	804	300	12		348	354			
	9,2						178	216	256	605		132	720	804	300	12		348	354			
CS 100-260	9,2	125	100	115	399	195	178	216	256	605	186	132	720	804	300	12	216	348	354	370	218	
	11						210	254	300	762		160	877	975	350	15		376	468			
	15						210	254	300	762		160	877	975	350	15		376	468			
CS 100-310	11	125	100	115	462	239	254	254	314	771	214	160	886	1013	350	14	259	419	470	480	245	
	15						279	279	350	831		180	946	1013	350	14		439	490			
	18,5						279	279	350	831		180	946	1013	350	14		439	490			
CS 125-260	9,2	150	125	110	402	203	178	216	276	613	206	132	723	621	300	12	216	348	354	370	242	
	11						210	254	300	771		160	881	979	350	15		376	468			
	15						210	254	300	771		160	881	979	350	15		376	468			
	18,5				475	244	241	279	340	798		180	908	979	350	15	396	488				



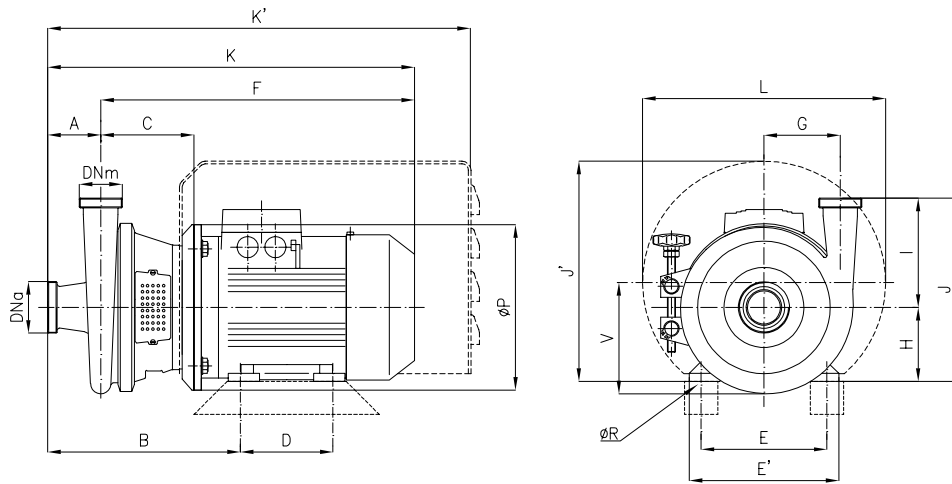
Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors

Pumps	kW	DNa	DNm	A	B	C	D	E	E'	F	G	H	K	K'	ØP	ØR	I	J	J'	L	V	Weight kg	
CS 25-145	0,55	32	25	75	237	123	90	112	132	335	81	71	410	532	160	7	145	216	213	239	91		
	0,75				248		100	125	150	359		80	434	541	9	225		262	298				
	1,1				254		125	140	165	403		90	478		10	235		272					
	1,5																						
2,2																							
CS 25-175	0,75	32	25	65	238	123	100	125	150	359	96	80	424	531	200	9	149	229	262	298	105		
	1,1				244		125	140	165	403		90	468		10	239		272					
	1,5				266			138	140	160		196	439	100	504	516		250	12	249		243	330
	2,2						273		190	226		451	112	516	261			255					
	3																						
4																							
CS 32-110	0,55	40	32	70	232	123	90	112	132	335	65	71	405	527	160	7	110	181	213	239	78		
	0,75				243		100	125	150	359		80	429	536	200	9		190	262	298			
	1,1				249		140	165	403	90		473	10		200	272							
	1,5																						
CS 32-145	0,75	40	32	80	268	138	100	125	150	374	85	80	454	566	220	9	145	225	244	298	95		
	1,1				274		125	140	165	418		90	498		10	235		254					
	1,5				282			139	140	160		196	455	100	535	635		250	12	245		305	330
	2,2						289		190	226		467	112	547	257			317					
	3																						
4																							
CS 32-175	1,5	40	32	80	275	139	100	140	165	419	95	90	499	567	220	10	150	240	254	298	109		
	2,2				282		140	160	196	456		100	536	636	250	12		250	305	330			
	3				290			190	226	468		112	548		262	317							
	4																						
CS 32-210	3	40	32	80	283	140	140	160	196	456	110	100	536	636	250	12	165	265	305	330	126		
	4				290			190	226	468		112	548		277			317					
	5,5				330			161	216	256		571	132	651	735			300	297	354		370	
	7,5									178		160	813	907	350			15	325	468		478	
	9,2																						
11	394	206	210	254	300	733	160	813	907	350	15												
CS 32-260	5,5	50	32	90	364	185	140	216	256	595	140	132	685	769	300	12	172	304	354	370	153		
	7,5				178		210	254	300	752		160	842	940	350	15		332	468	478			
	9,2																						
	11																						
15	423	225	210	254	300	752	160	842	940	350	15												
CS 40-145	1,5	50	40	80	275	139	100	140	165	418	90	90	498	567	220	10	133	223	254	298	103		
	2,2				283		140	160	196	455		100	535	636	250	12		233	305	330			
	3				289			190	226	467		112	547		245	317							
	4																						
CS 40-175	2,2	50	40	80	277	141	125	140	165	421	95	90	501	569	220	10	150	240	254	298	113		
	3				284			142	160	196		458	100	538	638	250		12	250	305		330	
	4				291				190	226		470	112	550		262		317					
	5,5				333			164	216	256		574	132	654	738	300		282	354	370			
	7,5					178	160			815	909	350	15	310	468	478							
	9,2																						
	11				396	208	210	254	300	735	160	815	909	350	15								



Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors

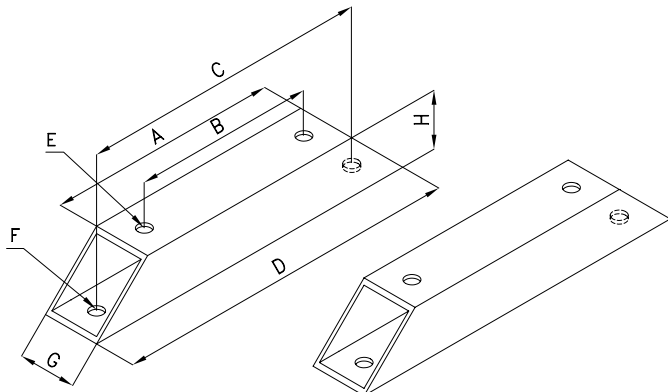
Pumps	kW	DNa	DNm	A	B	C	D	E	E'	F	G	H	K	K'	ØP	ØR	I	J	J'	L	V	Weight kg											
CS 40-210	3	50	40	80	285	142	140	160	196	458	115	100	538	638	250	12	165	265	305	330	131												
	4				292			190	226	470		112	550					277	317														
	5,5				333			164	216	256		574	132					654	738				300	297	354	370							
	7,5				396			208	178	254		300	735					160	815				909	350	15	325	468	478					
	9,2								210																				254	300	735		
	11								254																				300	735			
15	396	208	210	254	300	735	160	815	909	350	15	325	468	478																			
CS 40-260	7,5	50	40	100	374	185	178	216	256	198	145	132	695	779	300	12	172	304	354	370	157												
	9,2				434													226	210				254	300	254	160	852	950	350	15	332	468	478
	11				447													254	279				340	279	180	879	352	488					
	15																												241	279	340	279	180
18,5	447	241	279	340	279	180	879	352	488																								
22	447	241	279	340	279	180	879	352	488																								
CS 50-145	1,5	65	50	80	277	141	100	140	165	421	95	90	501	569	220	10	145	235	254	298	118												
	2,2				125		140	165	421	100		538	638	250	12	245		305	330														
	3				285		142	160	196	458		112	550	638	250	12		257	317	330													
	4				292		140	190	226	470		132	654	738	300	12		277	354	370													
	5,5				333		164	216	256	574		132	654	738	300	12		277	354	370													
7,5	333	164	216	256	574	132	654	738	300	12	277	354	370																				
CS 50-175	3	65	50	80	285	142	140	160	196	458	100	100	538	638	250	12	150	250	305	330	124												
	4				292			190	226	470		112	550					262	217														
	5,5				333			164	216	256		574	132					654	738				300	12	282	354	370						
	7,5				396			208	178	254		300	735					160	815				909	350	15	310	468	478					
	9,2								210																				254	300	735		
	11								254																				300	735			
15	396	208	210	254	300	735	160	815	909	350	15	310	468	478																			
CS 50-210	5,5	65	50	80	333	164	140	216	256	574	120	132	654	738	300	12	165	297	354	370	140												
	7,5				140		216											256	574				132	654	738	300	12	297	354	370			
	9,2				396		208											178	254				300	735	160	815	909	350	15	325	468	478	
	11																	210															254
	15				396		208											210	254				300	735	160	815	909	350	15	325	468	478	
CS 50-260	15	65	50	90	426	228	210	254	300	755	145	160	845	943	350	15	175	335	468	478	165												
	18,5				254		254											300	755				160	845	943	350	15	335	468	478			
	22				439		241											279	340				782	180	872	355	488						
CS 65-145	3	80	65	79	288	146	140	160	196	462	112	100	541	642	250	12	145	245	305	330	140												
	4				295			190	226	474		112	553					257	317														
	5,5				336			168	216	256		578	132					657	741				300	12	277	354	370						
	7,5				399			212	178	254		300	739					160	818				912	350	15	305	468	478					
	9,2								210																				254	300	739		
11	210	254	300	739																													
CS 65-175	5,5	80	65	80	336	167	140	216	256	577	120	132	657	741	300	12	150	282	354	370	148												
	7,5				140		216											256	577				132	657	741	300	12	282	354	370			
	9,2				399		211											178	254				300	738	160	818	912	350	15	310	468	478	
	11																	210															254
	15				399		211											210	254				300	738	160	818	912	350	15	310	468	478	
18,5	425	224	241	279	340	778	180	858	929	330	488																						



Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors

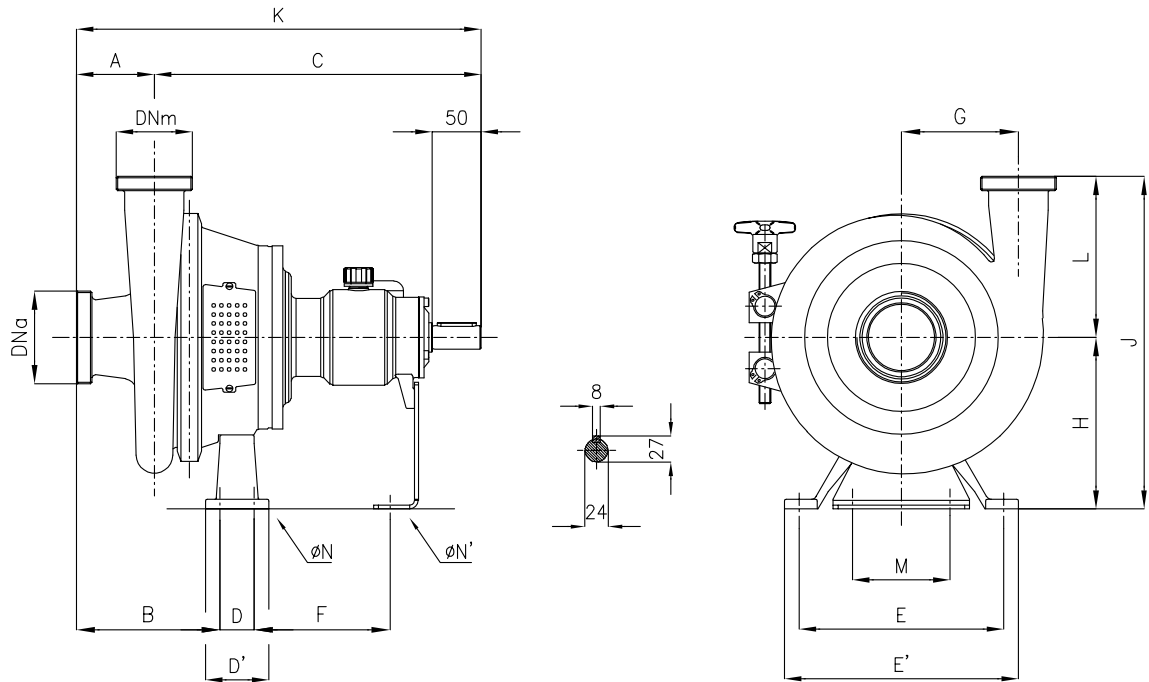
Pumps	kW	DNa	DNm	A	B	C	D	E	E'	F	G	H	K	K'	ØP	ØR	I	J	J'	L	V	Weight kg
CS 65-210	11	80	65	90	429	231	210	254	300	758	135	160	848	946	350	14	165	325	468	478	160	
	15						254	340	785	180		875	345			488						
	18,5						241	279	340	785		180	875			345	488					
	22						442	241	279	340		785	180			875	15	345	488			200
CS 65-260	15	80	65	100	438	230	210	254	300	757	155	160	857	955	350	14	205	365	468	478	182	
	18,5						254	340	784	180		884	385			488						
	22						451	241	279	340		784	180			884	15	385	488			
CS 80-175	11	100	80	100	444	235	210	254	300	763	139	160	863	961	350	14	164	324	468	478	169	
	15						254	340	790	180		890	344			488						
	18,5						241	279	340	790		180	890			15	344	488				
	22						457	241	279	340		790	180			890	15	344	488			
CS 80-210	15	100	80	100	441	233	210	254	300	760	145	160	860	958	350	14	164	324	468	478	179	
	18,5						254	340	787	180		887	344			488						
	22						454	241	279	340		787	180			887	15	344	488			
CS 100-210	22	125	100	110	471	240	241	279	340	794	161	180	905	976	350	15	214	394	488	478	200	

ADDITIONAL MOTOR SHIMS



Frame (IEC - DIN)	A	B	C	D	E	F	G	H
71	110	90	150	190	10	10	40	40
80	130	100	170	210	10	10	40	40
90 S	160	100	200	240	10	10	40	40
90 L		125	200	240	10	10	40	40
100 L	180	140	230	280	12	12	50	50
112 M	180	140	230	280	12	12	50	50
132 M	226	140	266	346	12	12	60	60
132 L	226	178	266	346	12	12	60	60
160 M	310	210	330	400	14	14	50	60
160 L	310	254	330	400	14	14	50	60
180 M/L	328	241/279	387	448	15	15	60	60

Upon request, they are available where the pump projects beyond the motor feet.



Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors

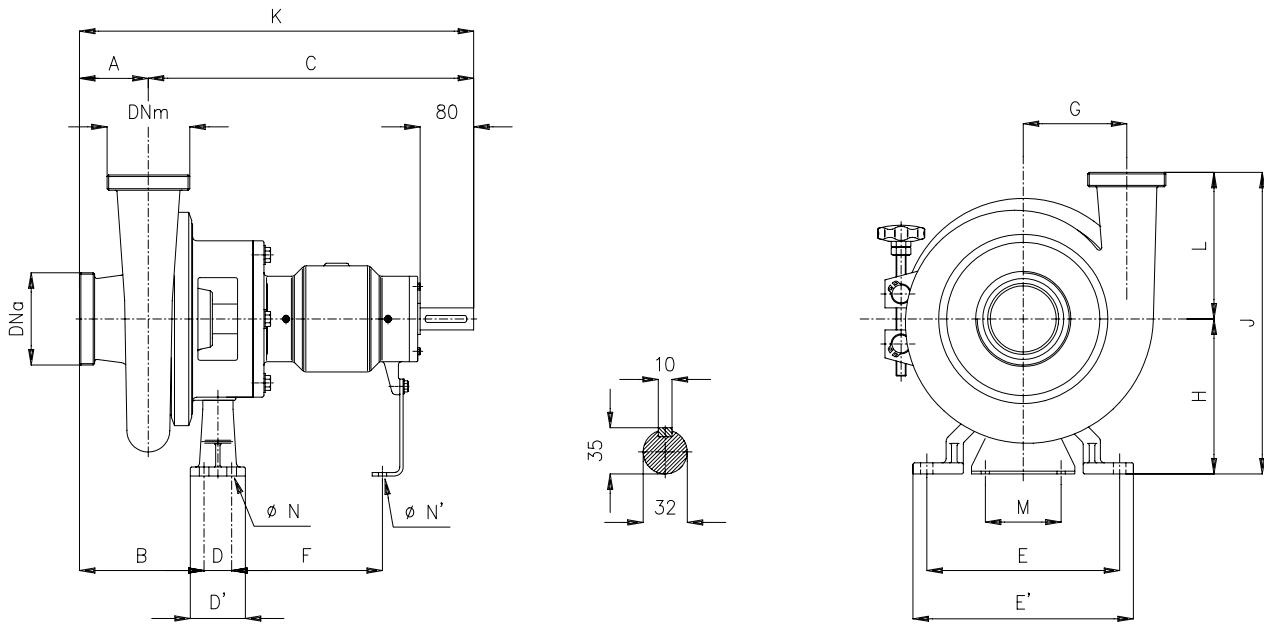
Pumps	DNa	DNm	A	B	C	D	D'	E	E'	F	G	H	K	J	L	M	N	N'	Weight kg
CSK 32-145	40	32	80	135	335	60	85	208	240	128	85	176	415	321	145	100	11	10	
CSK 32-175	40	32	80	136	334	60	85	208	240	127	95	176	414	326	150	100	11	10	
CSK 32-210	40	32	80	136	335	60	85	208	240	127	110	176	415	341	165	100	11	10	
CSK 40-145	50	40	80	136	335	60	85	208	240	128	90	176	415	309	133	100	11	10	
CSK 40-175	50	40	80	138	337	60	85	208	240	126	95	176	417	326	150	100	11	10	
CSK 40-210	50	40	80	138	337	60	85	208	240	126	115	176	417	341	165	100	11	10	
CSK 50-145	65	50	80	138	337	60	85	208	240	127	95	176	417	321	145	100	11	10	
CSK 50-175	65	50	80	139	337	60	85	208	240	126	100	176	417	326	150	100	11	10	
CSK 50-210	65	50	80	138	337	60	85	208	240	126	120	176	417	341	165	100	11	10	
CSK 65-145	80	65	79	141	341	60	85	208	240	128	112	176	420	321	145	100	11	10	
CSK 65-175	80	65	80	142	340	60	85	208	240	127	120	176	420	326	150	100	11	10	



SERIES CSK

3rd GROUP

OVERALL DIMENSIONS



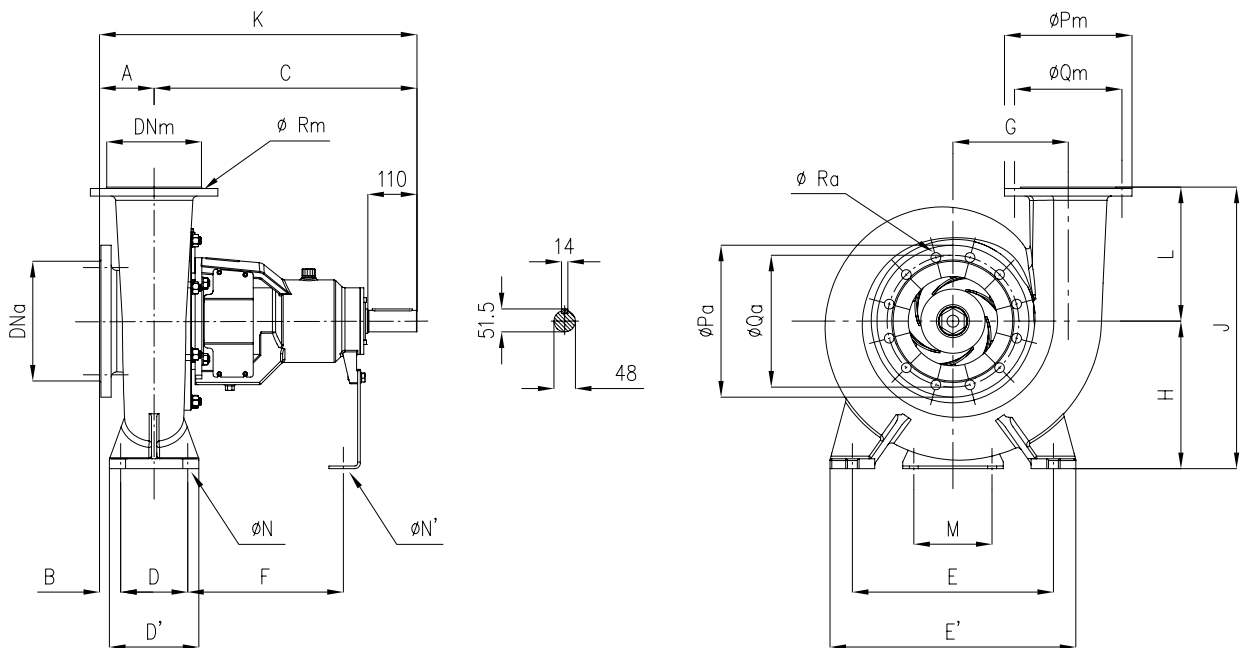
Dimensions not binding - DN = DIN 11851 male threaded connections with standard IEC/EN motors

Pumps	DNa	DNm	A	B	C	D	D'	E	E'	F	G	H	K	J	L	M	N	N'	Weight kg
CSK 65-210	80	65	90	149	474	80	106	300	340	202	135	225	564	390	165	110	14	12	
CSK 65-260	80	65	100	158	473	80	106	300	340	202	155	225	573	430	205	110	14	12	
CSK 80-175	100	80	100	166	479	80	106	300	340	200	139	217	579	381	164	110	14	12	
CSK 80-210	100	80	100	161	476	80	106	300	340	202	145	225	576	389	164	110	14	12	
CSK 80-260	100	80	100	161	476	80	106	300	340	202	165	225	576	424	209	110	14	12	
CSK 80-310	100	80	100	163	478	80	106	300	340	202	200	238	578	488	250	110	14	12	
CSK 100-210	125	100	111	178	483	80	106	300	340	202	161	225	593	439	214	110	14	12	
CSK 100-260	125	100	115	178	478	80	106	300	340	202	186	225	593	441	216	110	14	12	
CSK 100-310	125	100	115	181	482	80	106	300	340	202	215	238	597	497	259	110	14	12	
CSK 125-260	150	125	110	182	487	80	106	300	340	202	206	225	597	441	216	110	14	12	

SERIES CSK

4th GROUP

OVERALL DIMENSIONS



Dimensions not binding - DN = Flanges EN 1092-1 PN 16

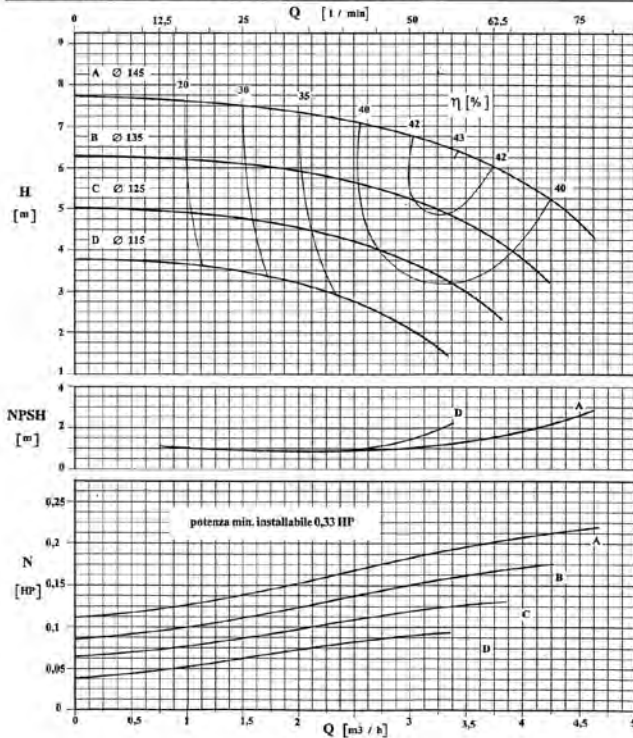
Pumps	DNa	DNm	A	B	C	D	D'	E	E'	F	G	H	K	J	L	M	N	N'	Ø Pm	Ø Pa	Ø Qm	Ø Qa	Ø Ra	Ø Rm	no. holes a	no. holes m	Weight kg
CSK 125-350	150	125	122	47	586	150	200	400	500	346	232	280	708	580	300	110	22	14	250	285	210	240	22	18	8	8	
CSK 150-350	200	150	122	47	580	150	200	450	550	348	258	330	702	630	300	175	22	20	285	340	240	295	22	22	12	8	

CURVE CARATTERISTICHE PERFORMANCE CURVES

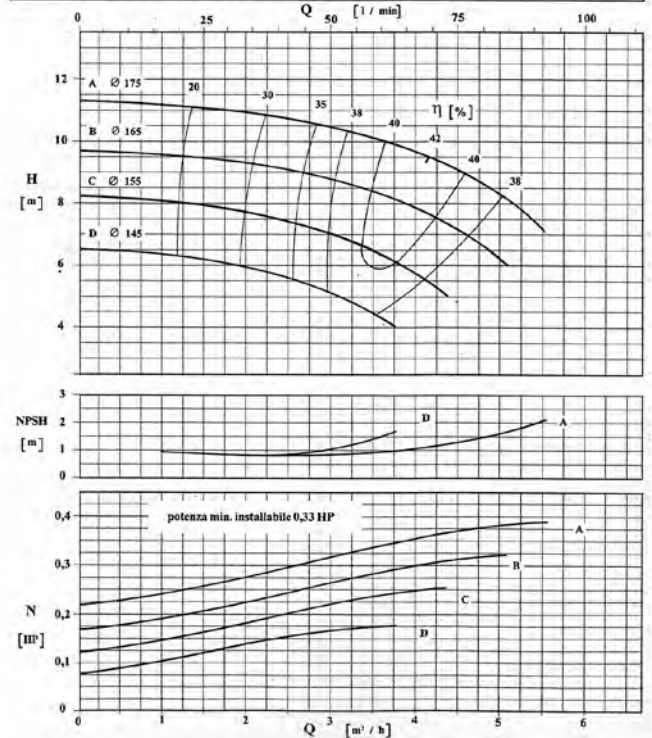
Serie CS-CSA CS-CSA Series

1450 giri/min - 1450 rpm

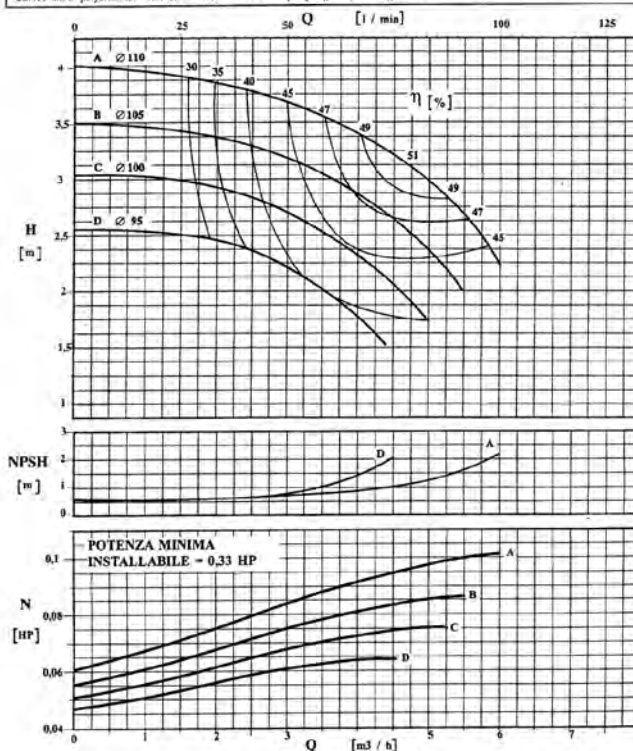
POMPA TIPO Pump type		CS 25 - 145			n	1450	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 32
APERTA	6	3,5 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 25
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm ³)							



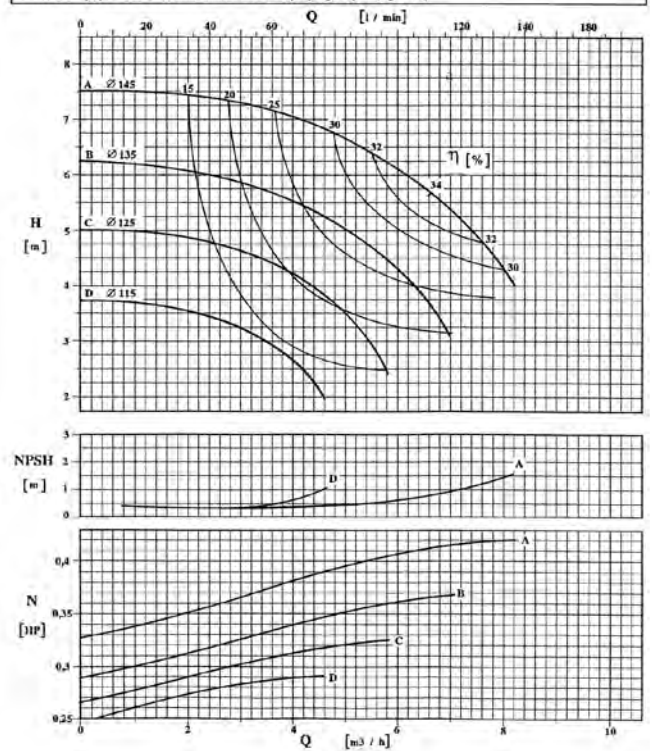
POMPA TIPO Pump type		CS 25 - 175			n	1450	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 32
APERTA	6	3,5 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 25
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm ³)							



POMPA TIPO Pump type		CS 32-110			n	1450	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 40
APERTA	6	4 mm	110 mm	95 mm	DIN 11851	Bocca mand. Discharge port	DN 32
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm ³)							



POMPA TIPO Pump type		CS-CSA 32 - 145			n	1450	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 40
APERTA	6	5 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 32
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm ³)							

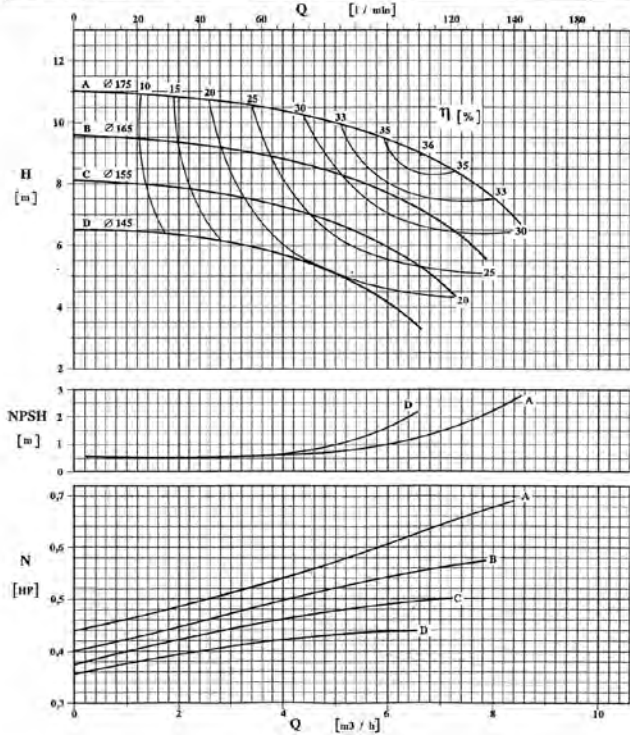


CURVE CARATTERISTICHE PERFORMANCE CURVES

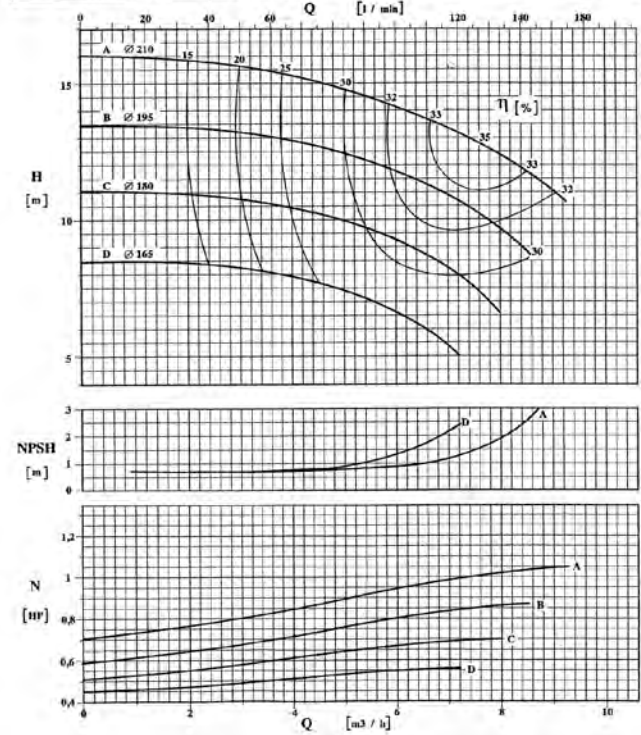
Serie CS-CSA CS-CSA Series

1450 giri/min - 1450 rpm

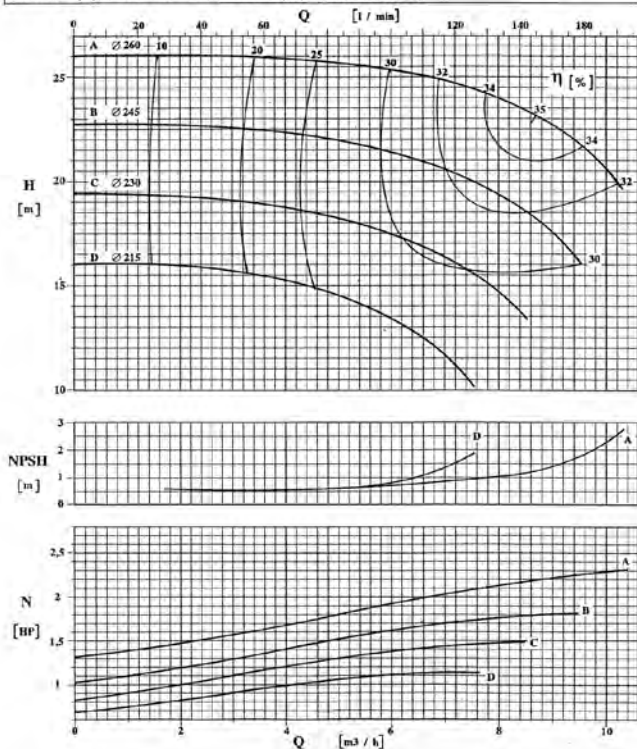
POMPA TIPO Pump type		CS-CSA 32 - 175				n	1450	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 40	
APERTA	6	4 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 32	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm ³)								



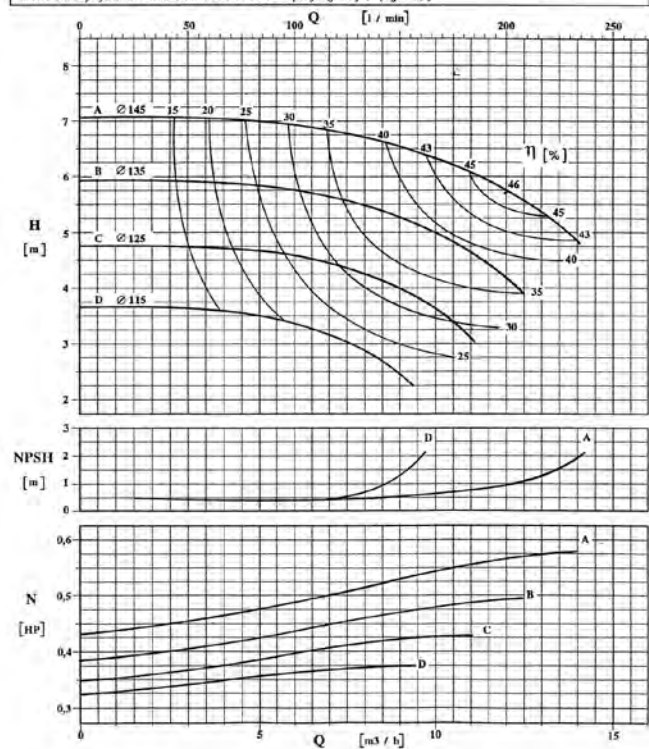
POMPA TIPO Pump type		CS-CSA 32 - 210				n	1450	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 40	
APERTA	6	4 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 32	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm ³)								



POMPA TIPO Pump type		CS-CSA 32 - 260				n	1450	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 50	
APERTA	6	3.5 mm	260 mm	210 mm	DIN 11851	Bocca mand. Discharge port	DN 32	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm ³)								



POMPA TIPO Pump type		CS-CSA 40 - 145				n	1450	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 50	
APERTA	6	6 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 40	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm ³)								

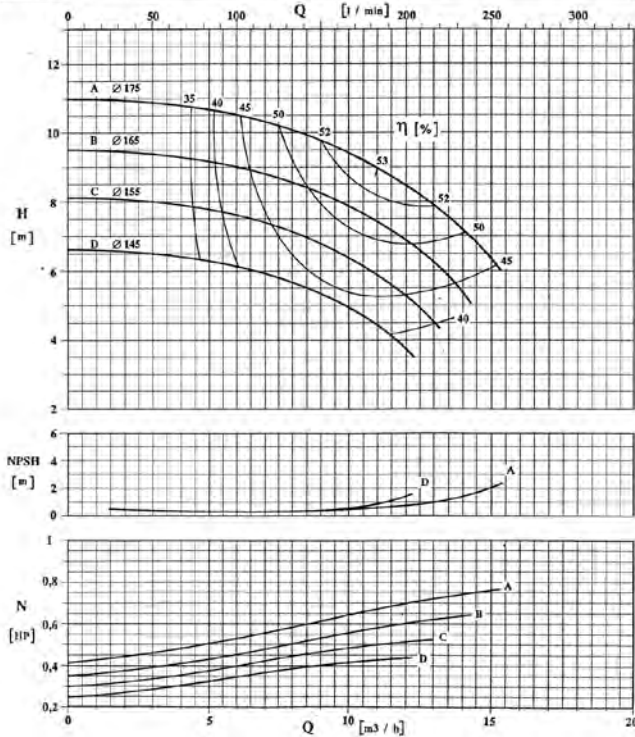


CURVE CARATTERISTICHE PERFORMANCE CURVES

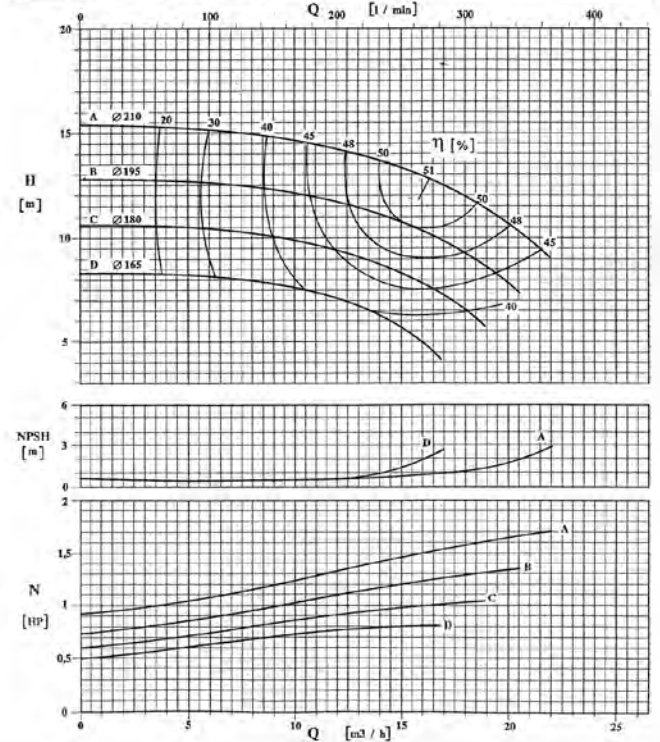
Serie CS-CSA CS-CSA Series

1450 giri/min - 1450 rpm

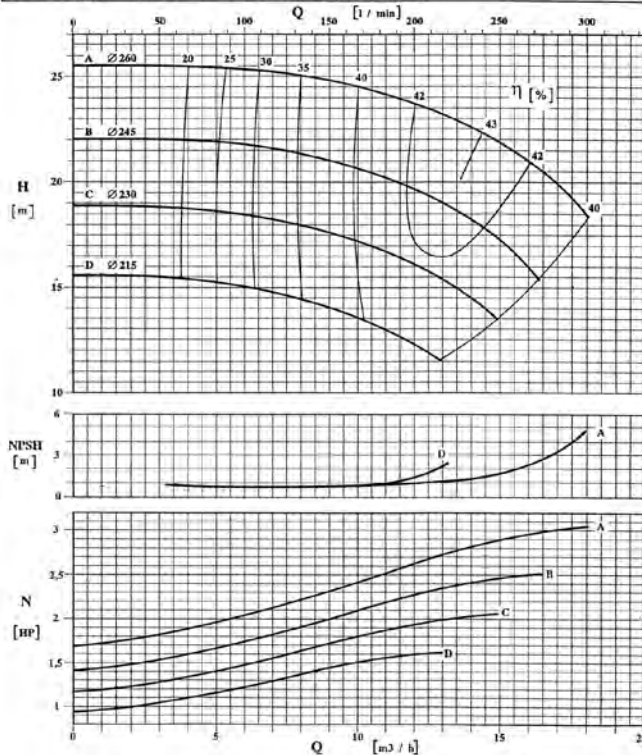
POMPA TIPO Pump type		CS-CSA 40 - 175				n	1450	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 50	
APERTA	6	6,5 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 40	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm ³)								



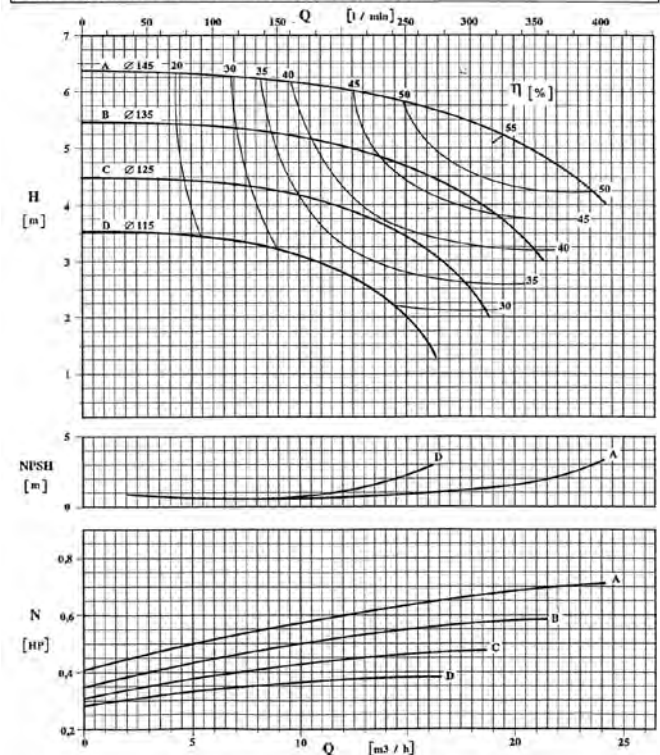
POMPA TIPO Pump type		CS-CSA 40 - 210				n	1450	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 50	
APERTA	6	6 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 40	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm ³)								



POMPA TIPO Pump type		CS-CSA 40 - 260				n	1450	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 50	
APERTA	6	5 mm	260 mm	210 mm	DIN 11851	Bocca mand. Discharge port	DN 40	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm ³)								



POMPA TIPO Pump type		CS-CSA 50 - 145				n	1450	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 65	
APERTA	6	10 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 50	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm ³)								



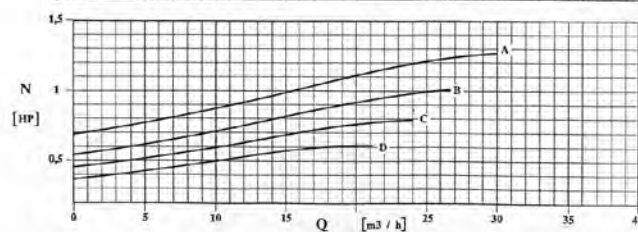
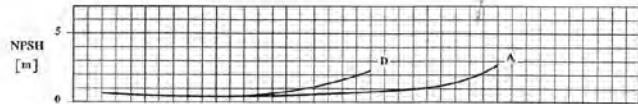
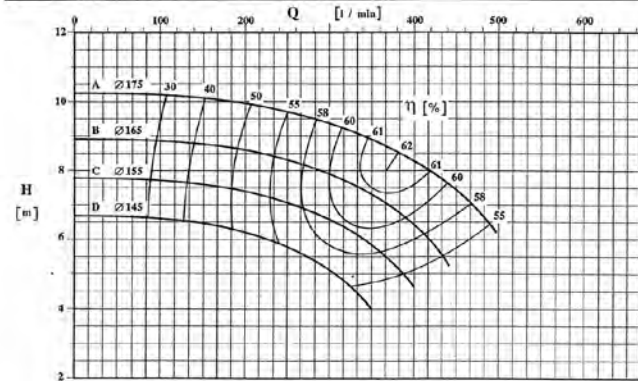
CURVE CARATTERISTICHE PERFORMANCE CURVES

Serie CS-CSA CS-CSA Series

1450 giri/min - 1450 rpm

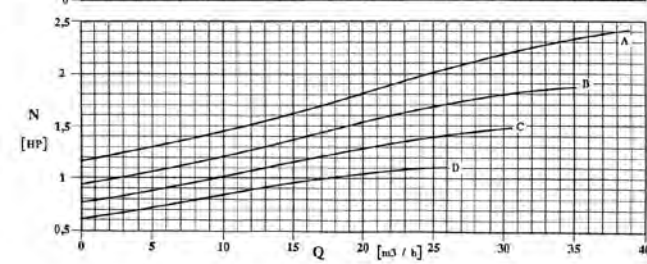
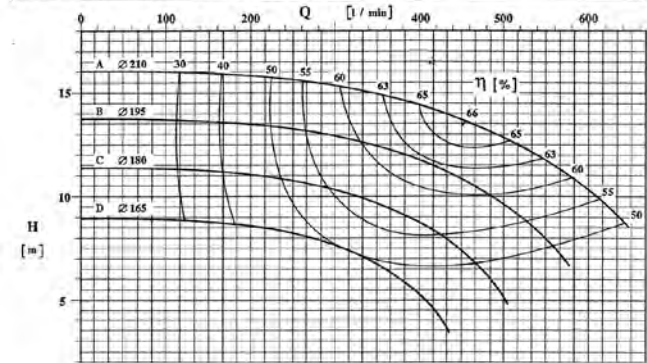
POMPA TIPO Pump type		CS-CSA 50 - 175			n	1450	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 65
APERTA	6	8 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 50

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



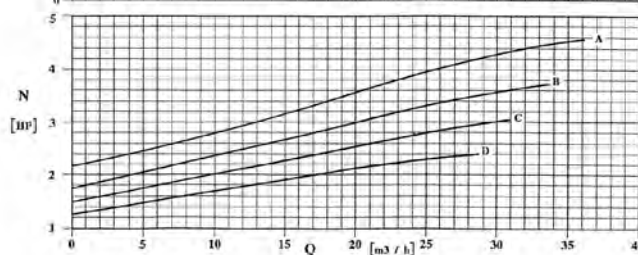
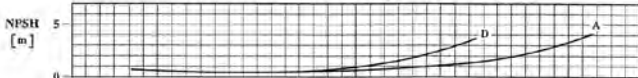
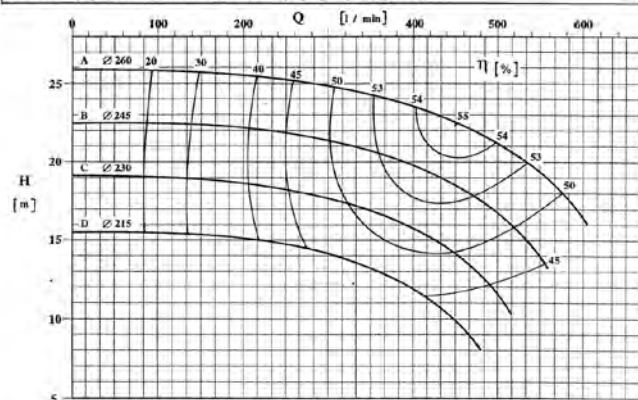
POMPA TIPO Pump type		CS-CSA 50 - 210			n	1450	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 65
APERTA	6	8 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 50

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



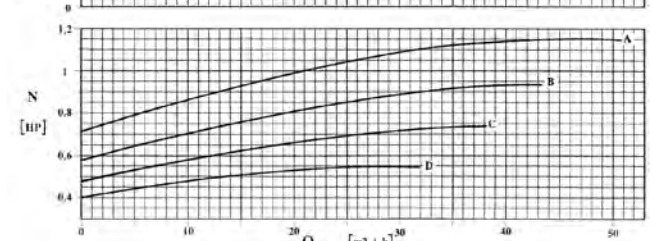
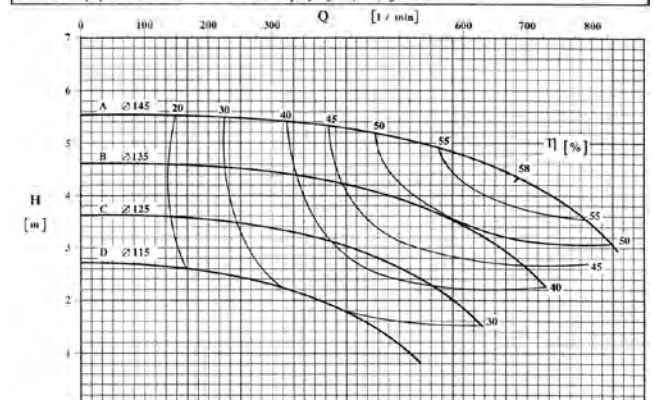
POMPA TIPO Pump type		CS-CSA 50 - 260			n	1450	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 65
APERTA	6	6 mm	260 mm	210 mm	DIN 11851	Bocca mand. Discharge port	DN 50

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



POMPA TIPO Pump type		CS-CSA 65 - 145			n	1450	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 80
APERTA	6	18 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 65

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



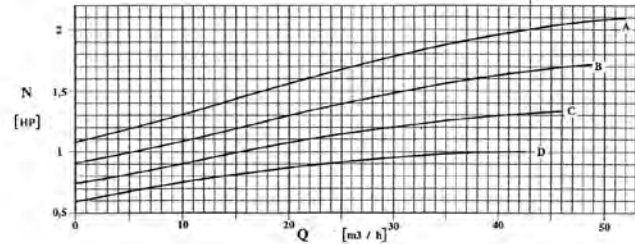
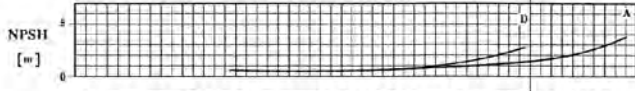
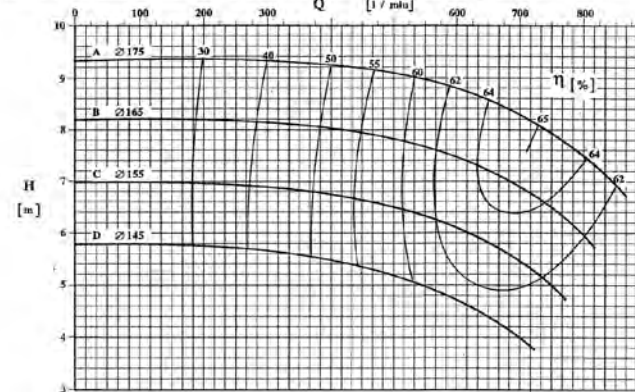
CURVE CARATTERISTICHE PERFORMANCE CURVES

Serie CS-CSA CS-CSA Series

1450 giri/min - 1450 rpm

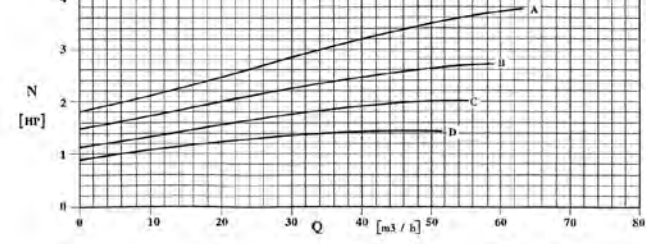
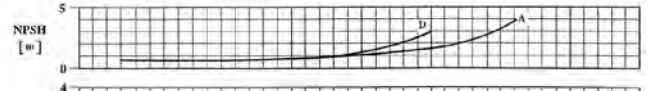
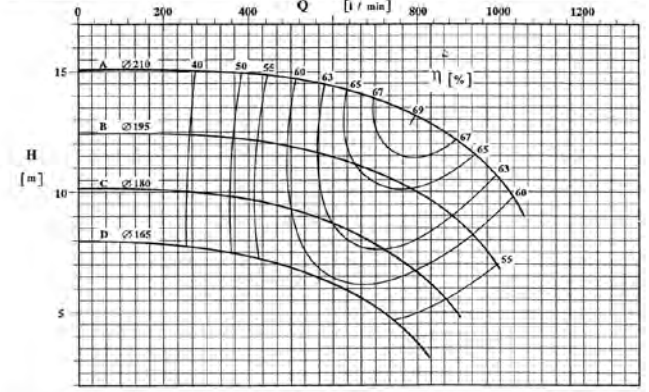
POMPA TIPO Pump type		CS-CSA 65 - 175			n 1450 giri / min r. p. m.	
GIRANTE - Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port DN 80
APERTA	6	16 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port DN 65

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



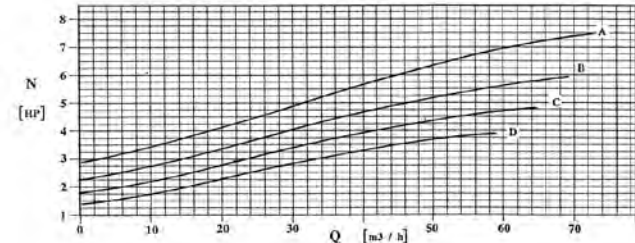
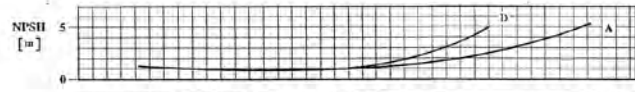
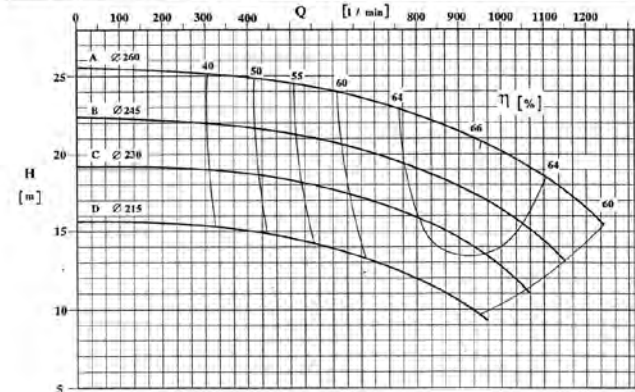
POMPA TIPO Pump type		CS-CSA 65 - 210			n 1450 giri / min r. p. m.	
GIRANTE - Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port DN 80
APERTA	6	12 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port DN 65

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



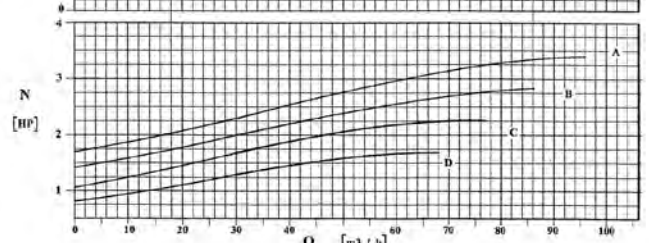
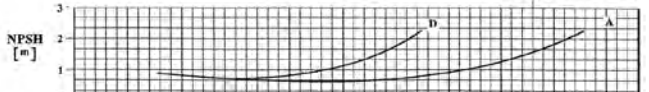
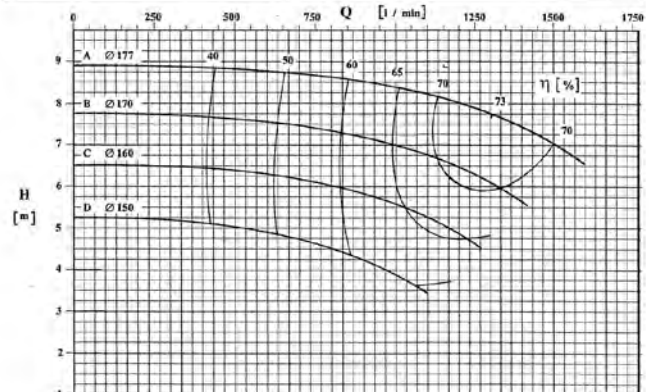
POMPA TIPO Pump type		CS-CSA 65 - 260			n 1450 giri / min r. p. m.	
GIRANTE - Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port DN 80
APERTA	6	10.5 mm	260 mm	210 mm	DIN 11851	Bocca mand. Discharge port DN 65

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



POMPA TIPO Pump type		CS-CSA 80 - 175			n 1450 giri / min r. p. m.	
GIRANTE - Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port DN 100
APERTA	6	22 mm	177 mm	150 mm	DIN 11851	Bocca mand. Discharge port DN 80

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



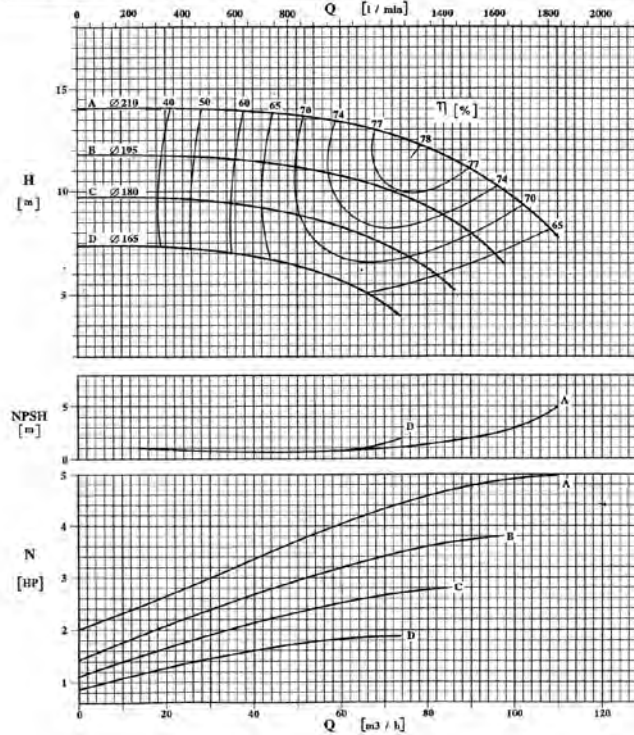
CURVE CARATTERISTICHE PERFORMANCE CURVES

Serie CS-CSA CS-CSA Series

1450 giri/min - 1450 rpm

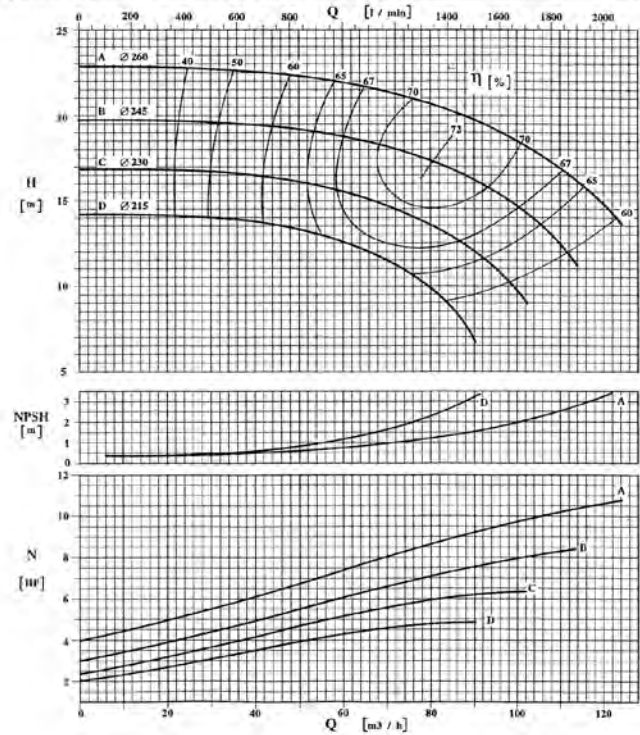
POMPA TIPO Pump type		CS-CSA 80 - 210			n	1450	giri / min r. p. m.
GIRANTE ----- Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 100
APERTA	6	18 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 80

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)



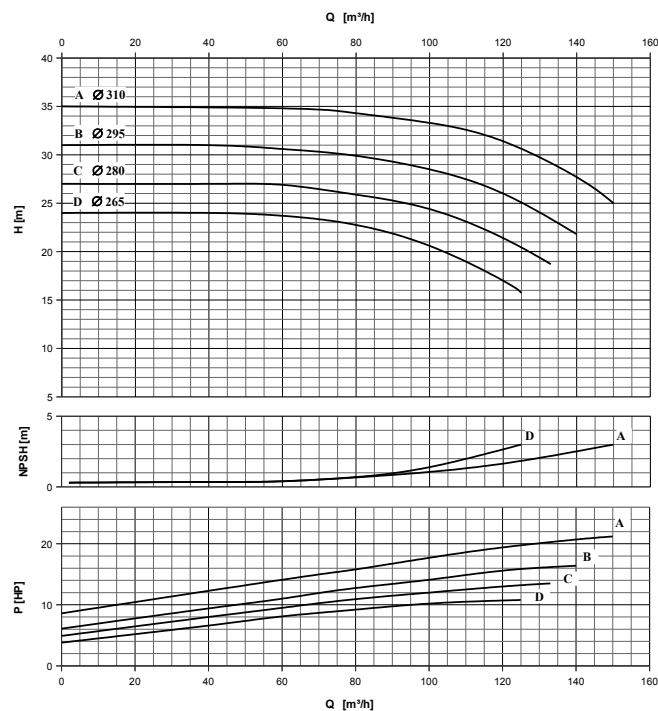
POMPA TIPO Pump type		CS-CSA 80 - 260			n	1450	giri / min r. p. m.
GIRANTE ----- Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 100
APERTA	6	14 mm	260 mm	200 mm	DIN 11851	Bocca mand. Discharge port	DN 80

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)



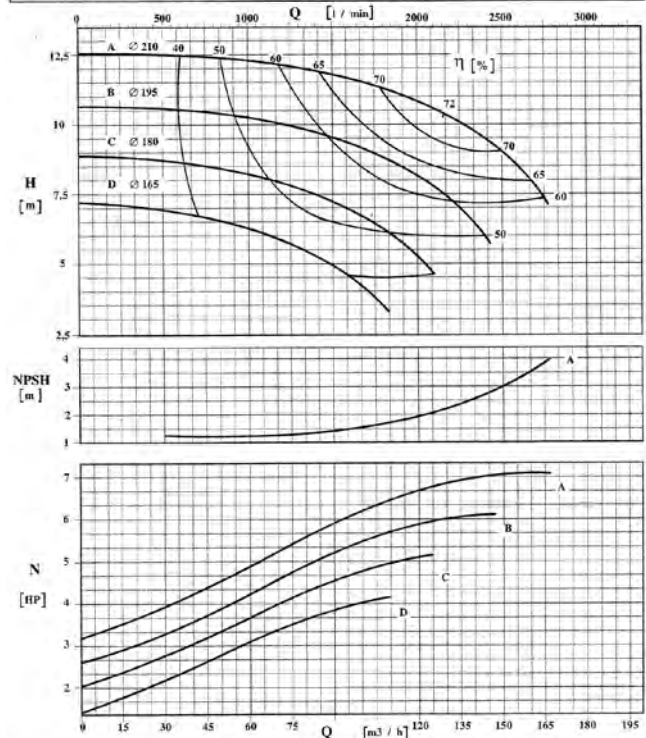
POMPA TIPO Pump type		CS 80 - 310			n	1450	giri/min r.p.m.
GIRANTE ----- Impeller							
TIPO Type	N° di pale n° of blades	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 100
APERTA	6	23 mm	310 mm	265 mm	DIN 11851	Bocca mand. Discharge port	DN 80

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 Kg/dm³
Curves show performance with clear water at 70°F - Specific gravity 1 Kg/dm³



POMPA TIPO Pump type		CS - CSA 100 - 210			n	1450	giri / min r. p. m.
GIRANTE ----- Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 125
APERTA	6	15 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 100

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)

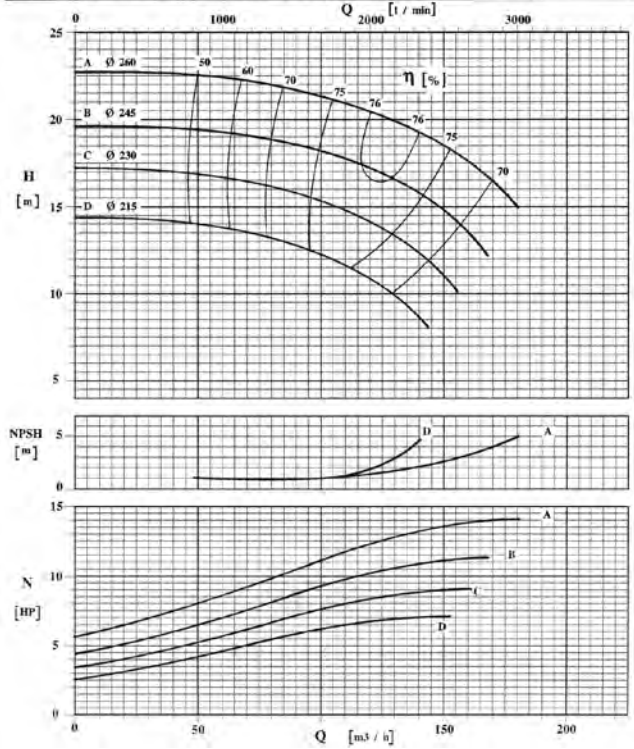


CURVE CARATTERISTICHE PERFORMANCE CURVES

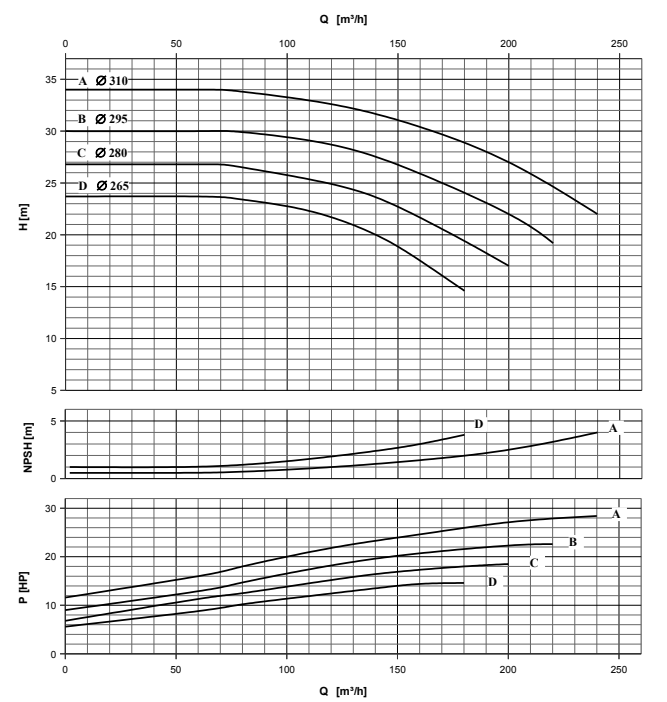
Serie CS-CSA CS-CSA Series

1450 giri/min - 1450 rpm

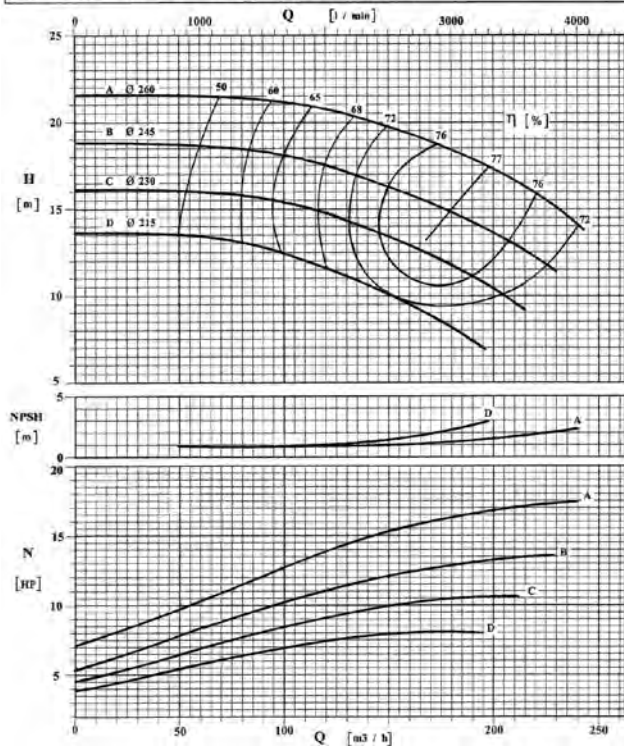
POMPA TIPO Pump type		CS-CSA 100 - 260				n	1450	giri / min r.p.m.
GIRANTE ----- Impeller								
TIPO Type	N° di pale n° of blades	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 125	
APERTA	6	25 mm	260 mm	210 mm	DIN 11851	Bocca mand. Discharge port	DN 100	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)								



POMPA TIPO Pump type		CS 100 - 310				n	1450	giri/min r.p.m.
GIRANTE ----- Impeller								
TIPO Type	N° di pale n° of blades	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 125	
APERTA	6	30 mm	310 mm	265 mm	DIN 11851	Bocca mand. Discharge port	DN 100	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 Kg/dm³ Curves show performance with clear water at 70°F - Specific gravity 1 Kg/dm³								



POMPA TIPO Pump type		CS 125 - 260				n	1470	giri / min r.p.m.
GIRANTE ----- Impeller								
TIPO Type	N° di pale n° of blades	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 150	
APERTA	6	32 mm	260 mm	210 mm	DIN 11851	Bocca mand. Discharge port	DN 125	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)								



CURVE CARATTERISTICHE

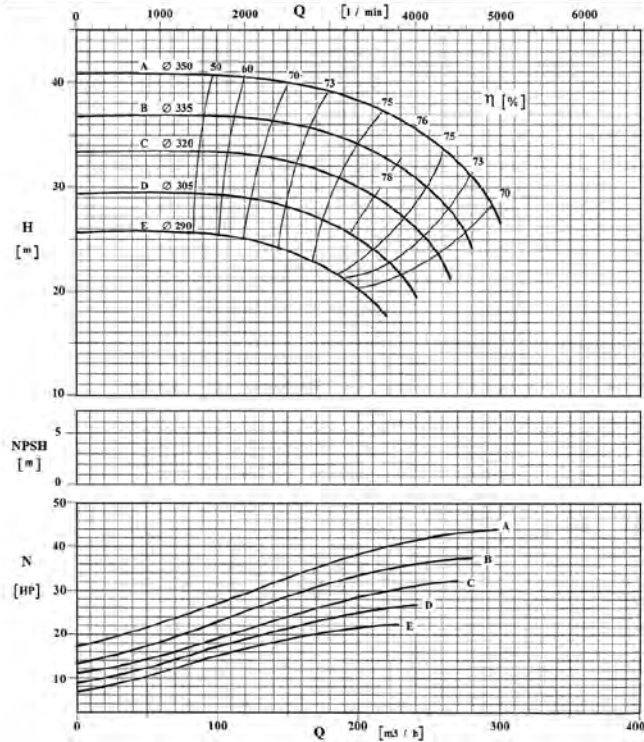
PERFORMANCE CURVES

Serie CS-CSK

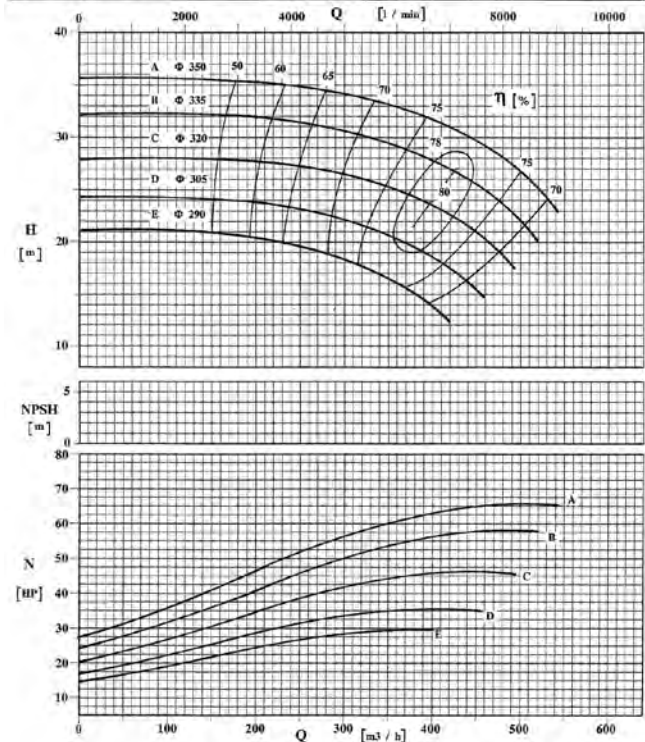
CS-CSK Series

1450 giri/min - 1450 rpm

POMPA TIPO Pump type		CS-CSK 125 - 350			n	1470	giri / min r. p. m.
GIRANTE — Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Flange tipo Flanges type	Bocca aspir. Suction port	DN 150
APERTA	6	18 mm	350 mm	285 mm	UNI PN 16	Bocca mand. Discharge port	DN 125
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)							



POMPA TIPO Pump type		CS-CSK 150 - 350			n	1450	giri / min r. p. m.
GIRANTE — Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Flange tipo Flanges type	Bocca aspir. Suction port	DN 200
APERTA	6	24 mm	350 mm	285 mm	UNI PN 16	Bocca mand. Discharge port	DN 150
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)							



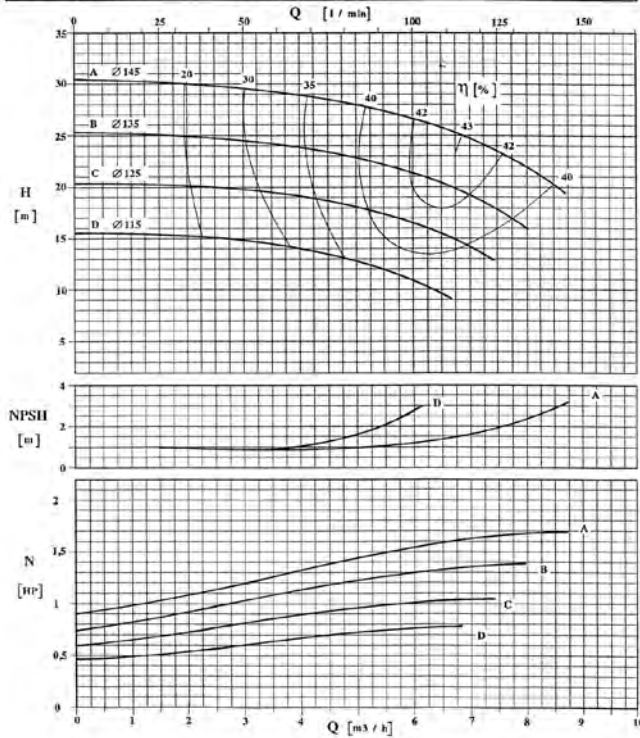
CURVE CARATTERISTICHE PERFORMANCE CURVES

Serie CS-CSA CS-CSA Series

2900 giri/min - 2900 rpm

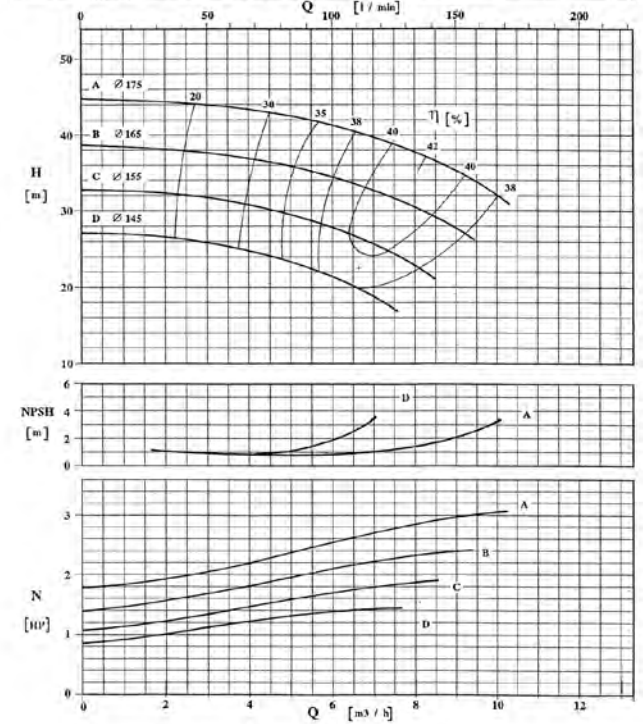
POMPA TIPO Pump type		CS 25 - 145				n	2900	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 32	
APERTA	6	3,5 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 25	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



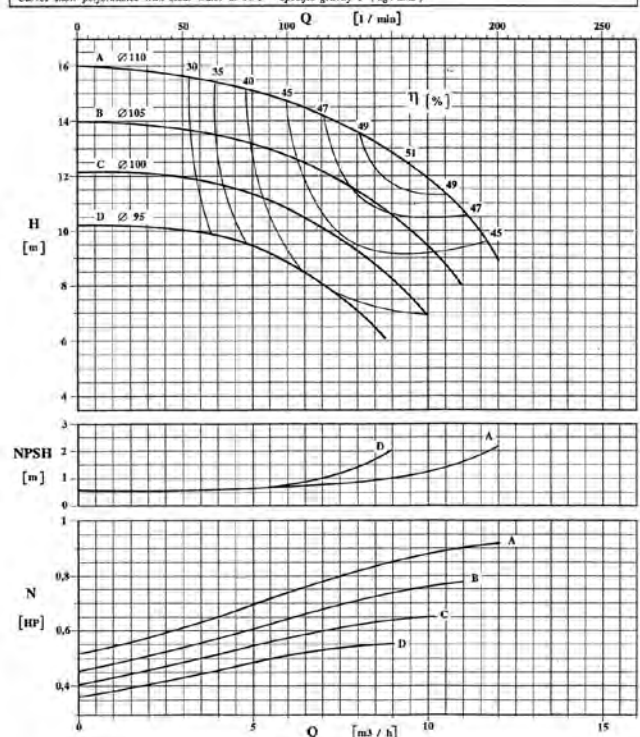
POMPA TIPO Pump type		CS 25 - 175				n	2900	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 32	
APERTA	6	3,5 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 25	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



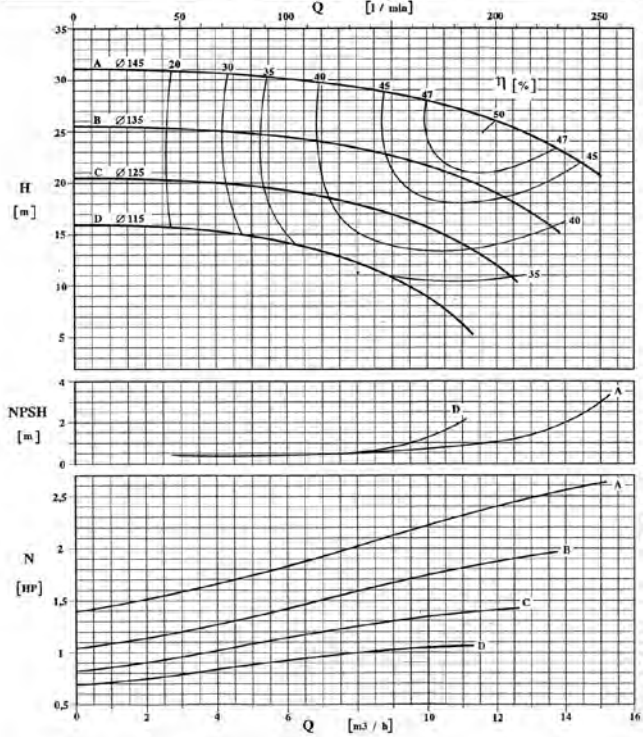
POMPA TIPO Pump type		CS 32-110				n	2900	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 40	
APERTA	6	4 mm	110 mm	95 mm	DIN 11851	Bocca mand. Discharge port	DN 32	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



POMPA TIPO Pump type		CS-CSA 32 - 145				n	2900	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 40	
APERTA	6	5 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 32	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



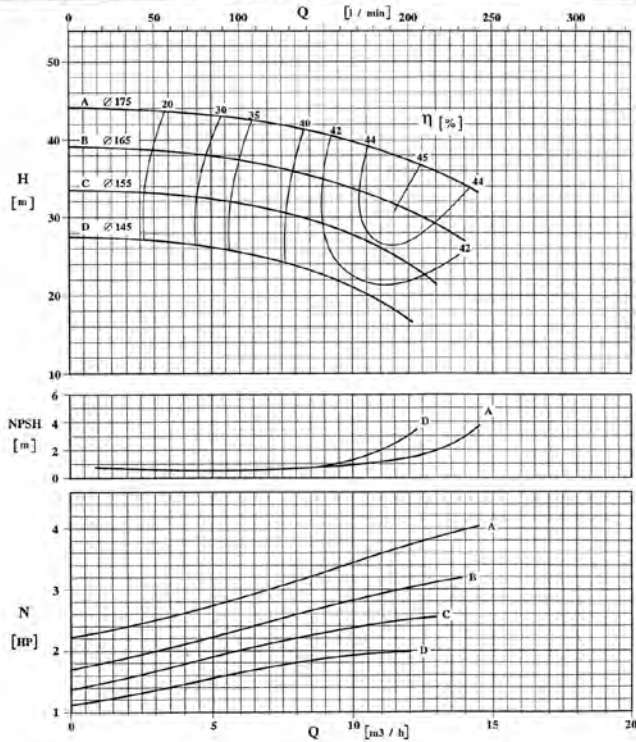
CURVE CARATTERISTICHE PERFORMANCE CURVES

Serie CS-CSA CS-CSA Series

2900 giri/min - 2900 rpm

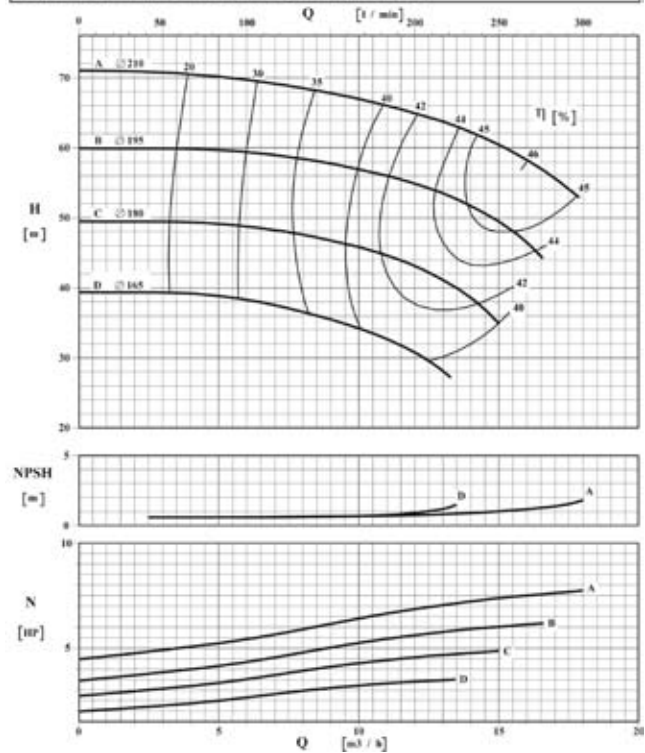
POMPA TIPO Pump type		CS-CSA 32 - 175				n	2900	giri / min r. p. m.
		GIRANTE - Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 40	
APERTA	6	4 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 32	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



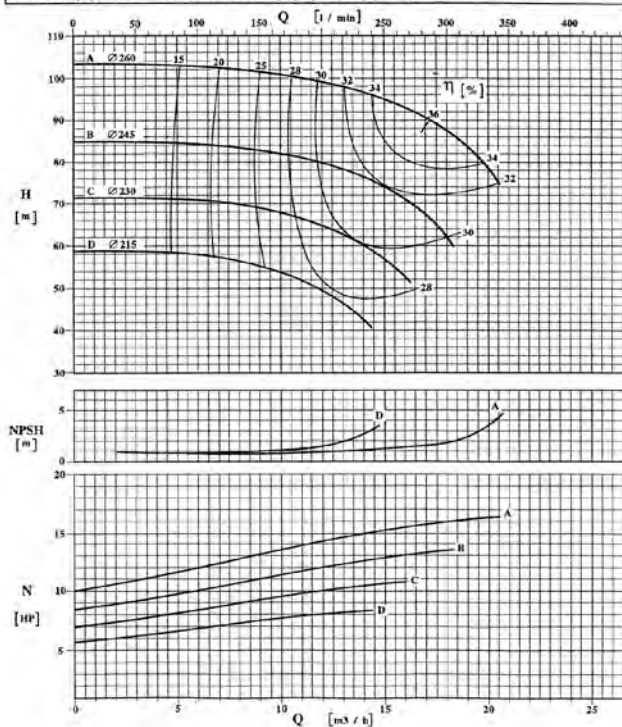
POMPA TIPO Pump type		CS-CSA 32 - 210				n	2900	giri / min r. p. m.
		GIRANTE - Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 40	
APERTA	6	4 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 32	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



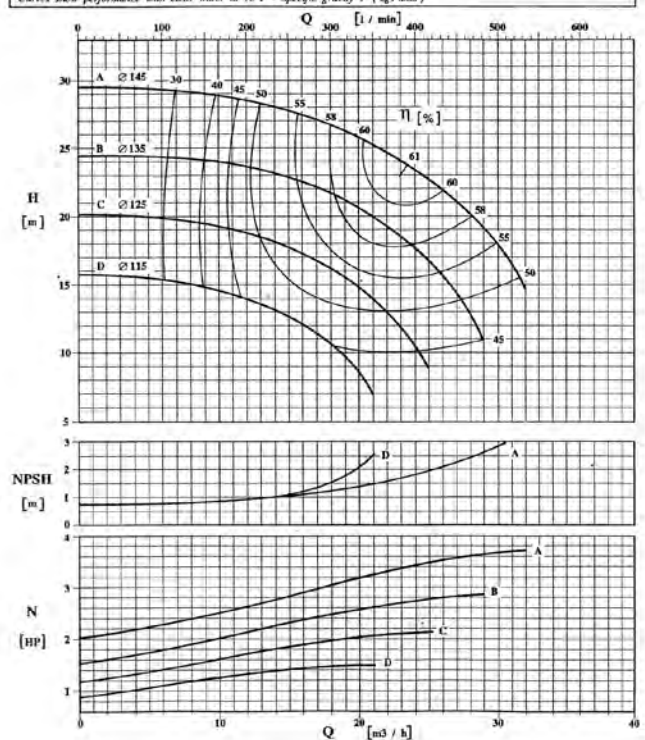
POMPA TIPO Pump type		CS-CSA 32 - 260				n	2950	giri / min r. p. m.
		GIRANTE - Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 50	
APERTA	6	3,5 mm	260 mm	200 mm	DIN 11851	Bocca mand. Discharge port	DN 32	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



POMPA TIPO Pump type		CS-CSA 40 - 145				n	2900	giri / min r. p. m.
		GIRANTE - Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 50	
APERTA	6	11 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 40	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



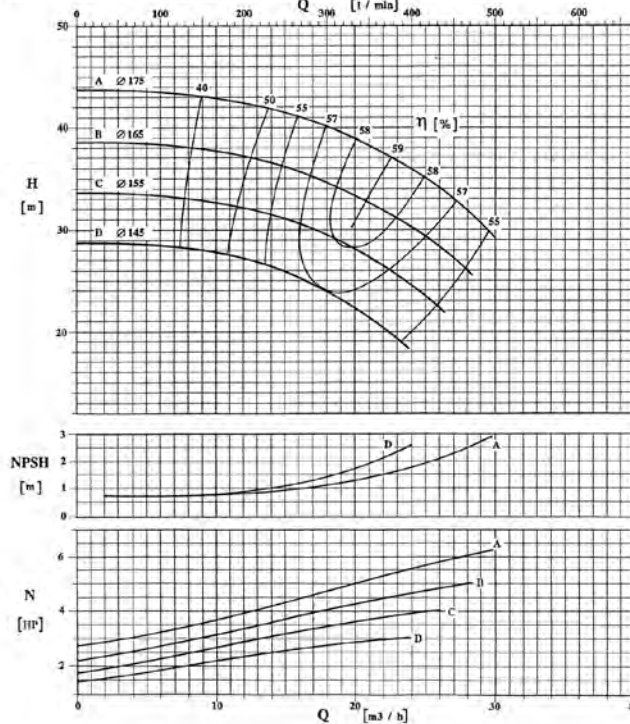
CURVE CARATTERISTICHE PERFORMANCE CURVES

Serie CS-CSA CS-CSA Series

2900 giri/min - 2900 rpm

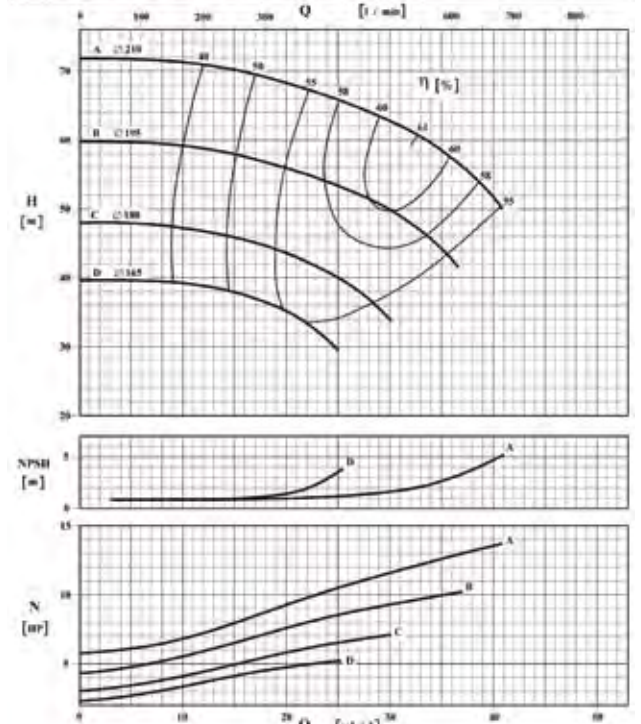
POMPA TIPO Pump type		CS-CSA 40 - 175				n	2900	giri / min r. p. m.
		GIRANTE Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 50	
APERTA	6	11 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 40	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



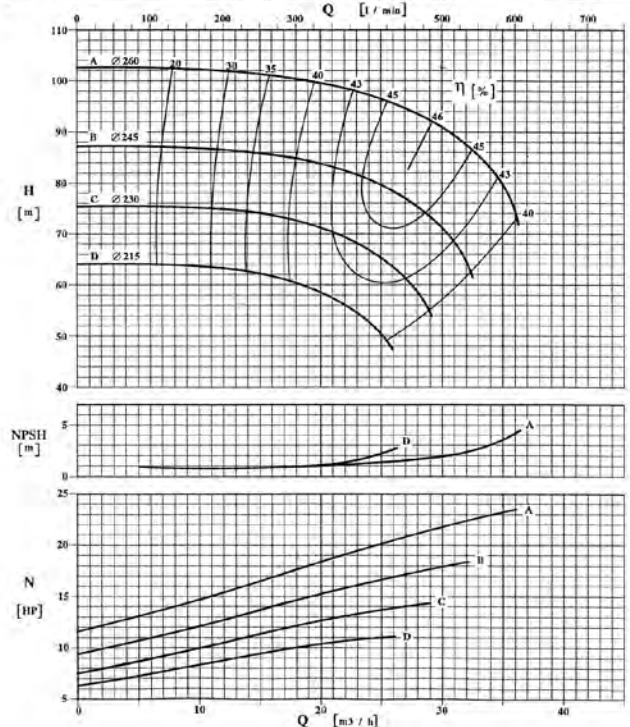
POMPA TIPO Pump type		CS - CSA 40 - 210				n	2950	giri / min r. p. m.
		GIRANTE Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 50	
APERTA	6	6 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 40	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



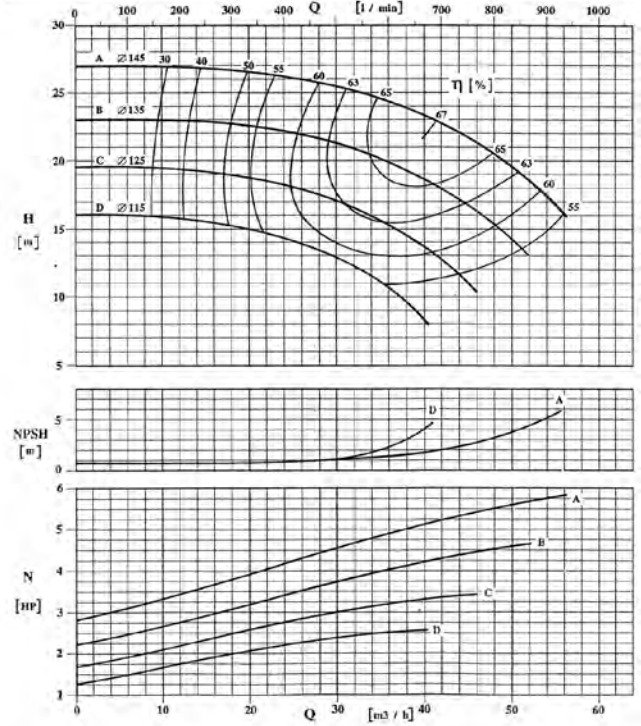
POMPA TIPO Pump type		CS-CSA 40 - 260				n	2950	giri / min r. p. m.
		GIRANTE Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 50	
APERTA	6	5 mm	260 mm	200 mm	DIN 11851	Bocca mand. Discharge port	DN 40	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



POMPA TIPO Pump type		CS-CSA 50 - 145				n	2900	giri / min r. p. m.
		GIRANTE Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 65	
APERTA	6	16 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 50	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)

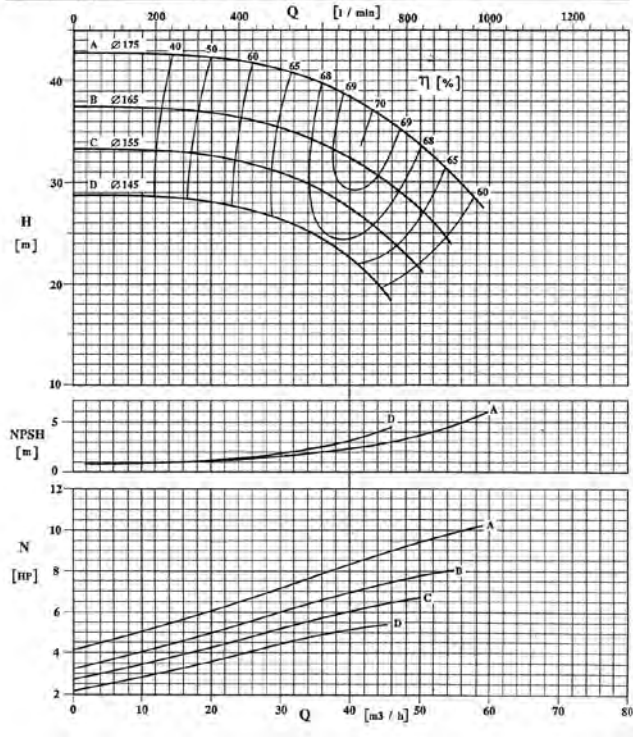


CURVE CARATTERISTICHE PERFORMANCE CURVES

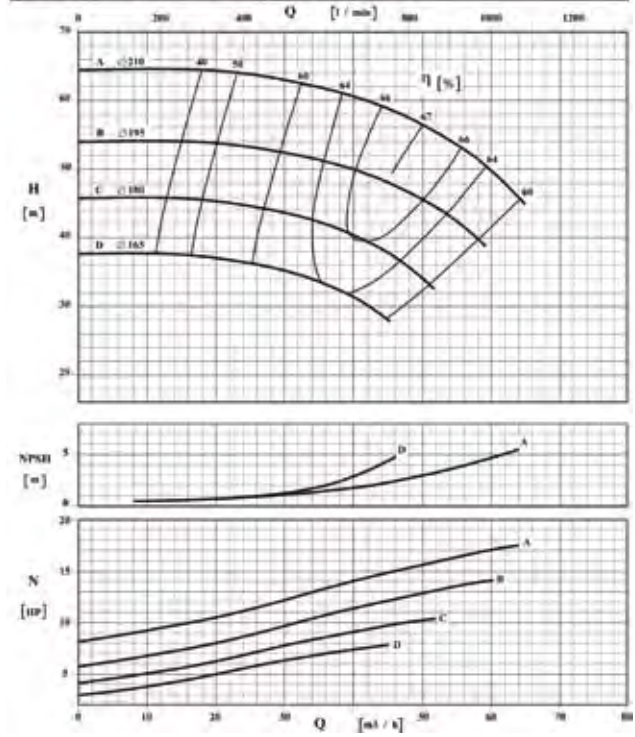
Serie CS-CSA CS-CSA Series

2900 giri/min - 2900 rpm

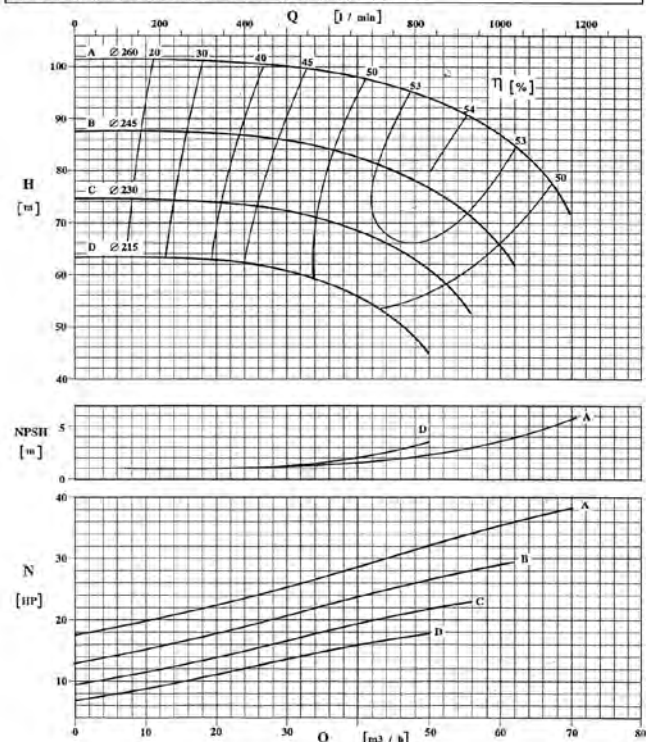
POMPA TIPO Pump type		CS-CSA 50 - 175				n	2900	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	∅ max max. diameter	∅ min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 65	
APERTA	6	13 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 50	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm ³)								



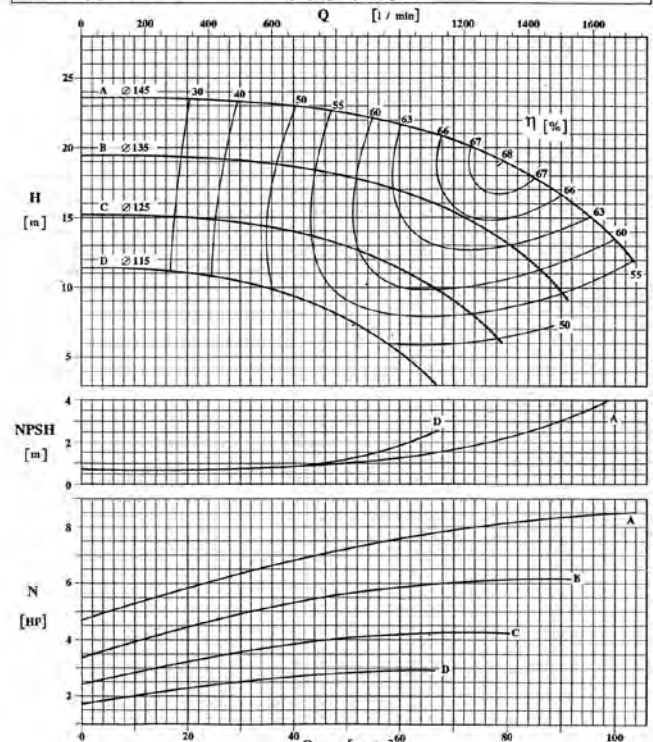
POMPA TIPO Pump type		CS-CSA 50 - 210				n	2900	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	∅ max max. diameter	∅ min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 65	
APERTA	6	8 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 50	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm ³)								



POMPA TIPO Pump type		CS-CSA 50 - 260				n	2950	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	∅ max max. diameter	∅ min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 65	
APERTA	6	6 mm	260 mm	210 mm	DIN 11851	Bocca mand. Discharge port	DN 50	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm ³)								



POMPA TIPO Pump type		CS-CSA 65 - 145				n	2900	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	∅ max max. diameter	∅ min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 80	
APERTA	6	23 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 65	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm ³)								



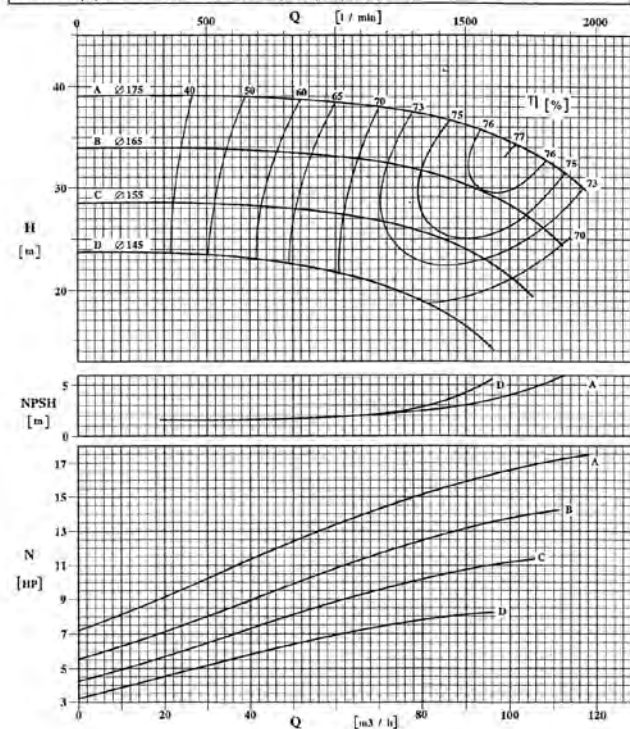
CURVE CARATTERISTICHE PERFORMANCE CURVES

Serie CS-CSA CS-CSA Series

2900 giri/min - 2900 rpm

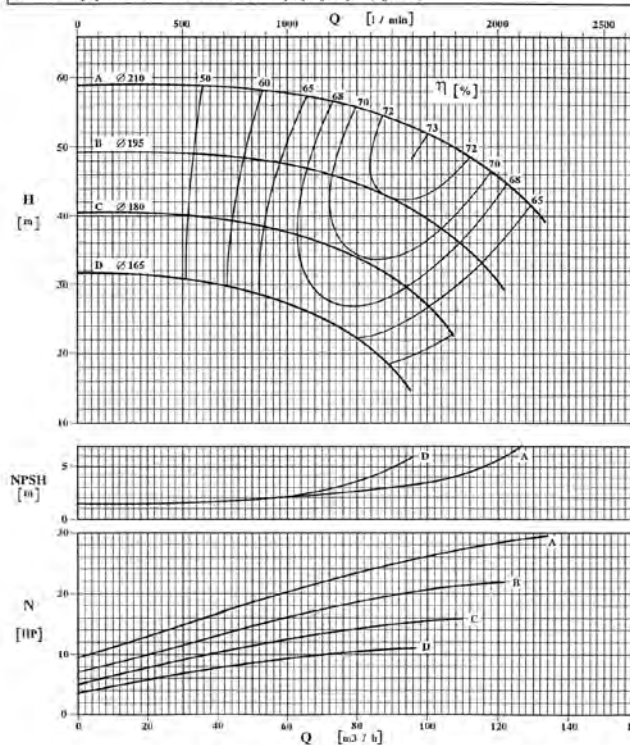
POMPA TIPO Pump type		CS-CSA 65 - 175			n	2900	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 80
APERTA	6	16 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 65

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



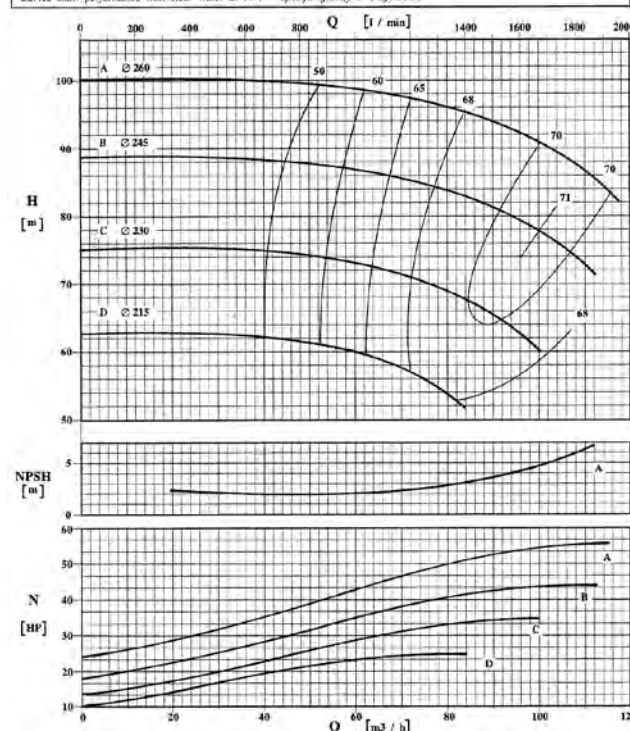
POMPA TIPO Pump type		CS-CSA 65 - 210			n	2900	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 80
APERTA	6	12 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 65

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



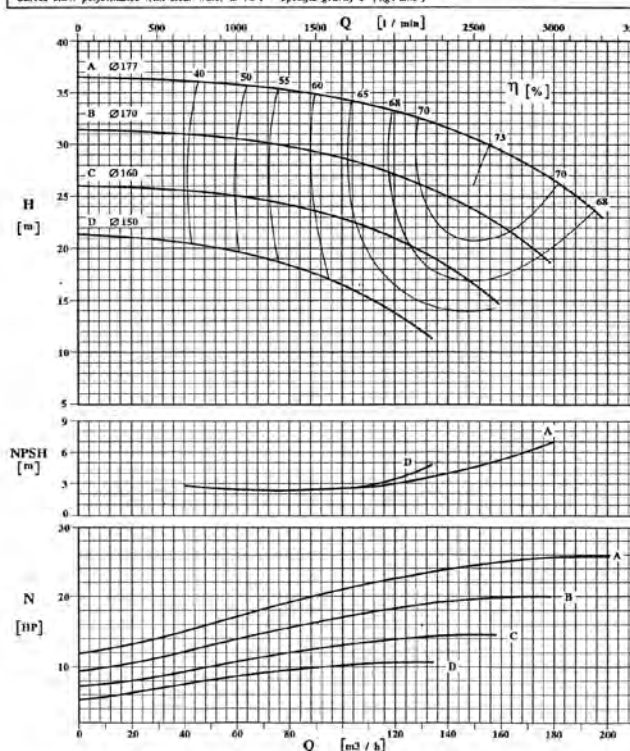
POMPA TIPO Pump type		CS-CSA 65 - 260			n	2900	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 80
APERTA	6	10.5 mm	260 mm	215 mm	DIN 11851	Bocca mand. Discharge port	DN 65

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



POMPA TIPO Pump type		CS-CSA 80 - 175			n	2900	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 100
APERTA	6	22 mm	177 mm	150 mm	DIN 11851	Bocca mand. Discharge port	DN 80

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



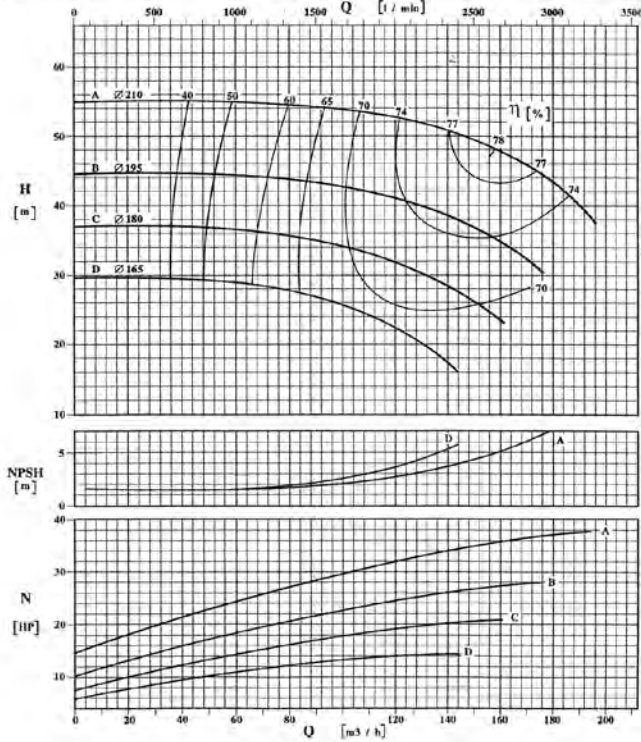
CURVE CARATTERISTICHE PERFORMANCE CURVES

Serie CS-CSA CS-CSA Series

2900 giri/min - 2900 rpm

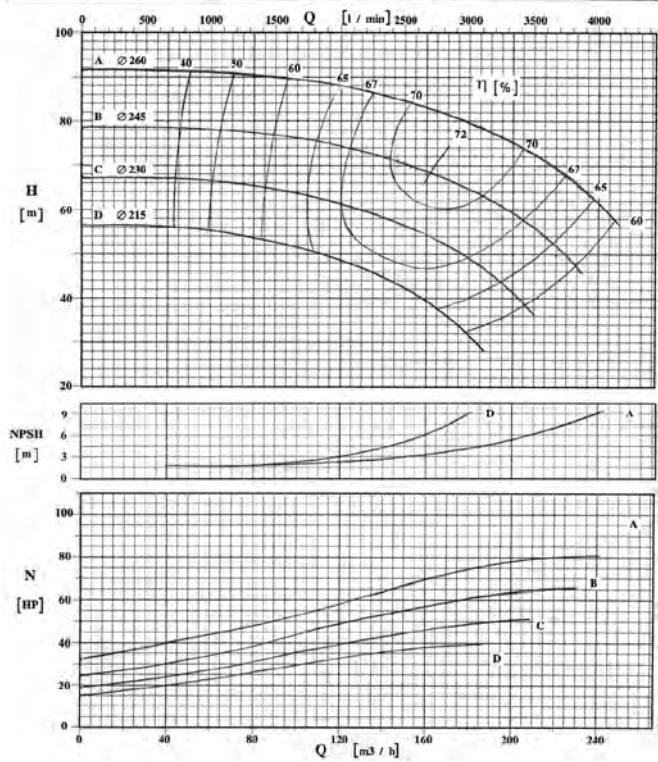
POMPA TIPO Pump type		CS - CSA 80 - 210			n	2900	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 100
APERTA	6	15 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 80

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)



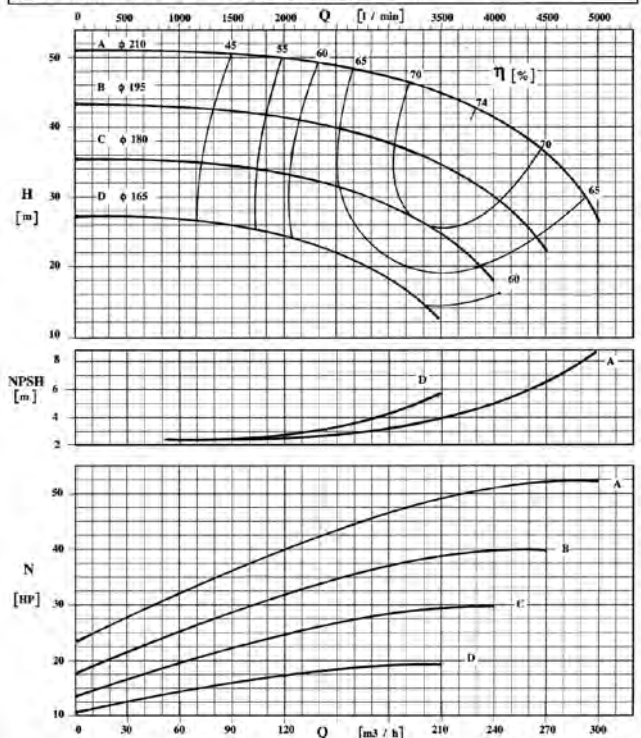
POMPA TIPO Pump type		CS 80 - 260			n	2950	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 100
APERTA	6	14 mm	260 mm	200 mm	DIN 11851	Bocca mand. Discharge port	DN 80

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)



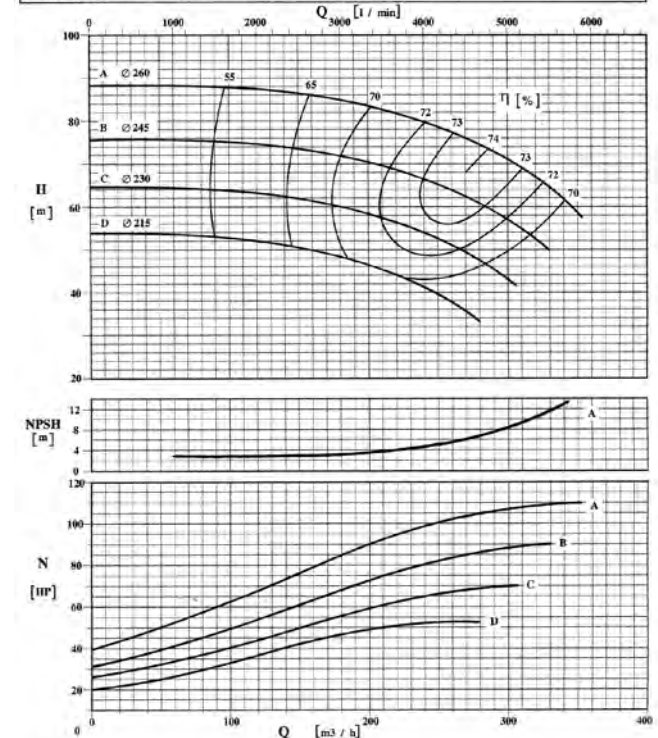
POMPA TIPO Pump type		CS - CSA 100 - 210			n	2950	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 125
APERTA	6	28 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 100

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)



POMPA TIPO Pump type		CS - CSA 100 - 260			n	2950	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 125
APERTA	6	25 mm	260 mm	200 mm	DIN 11851	Bocca mand. Discharge port	DN 100

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)



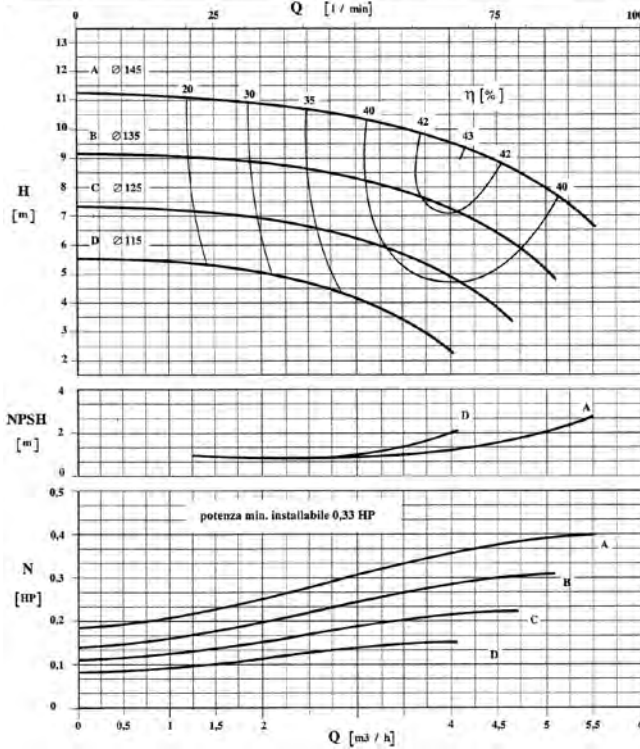
CURVE CARATTERISTICHE PERFORMANCE CURVES

Serie CS-CSA CS-CSA Series

1750 giri/min - 1750 rpm

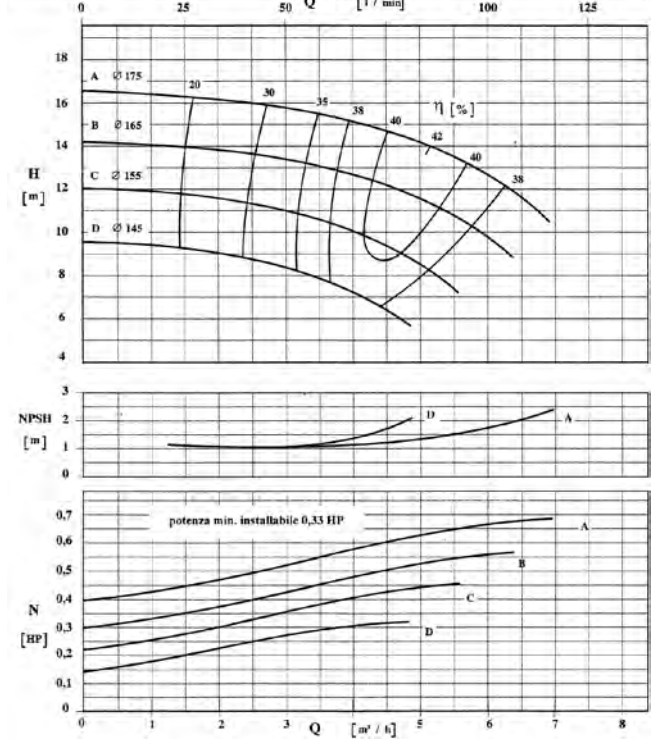
POMPA TIPO Pump type		CS 25 - 145				n	1750	giri / min r. p. m.
GIRANTE Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 32	
APERTA	6	3,5 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 25	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



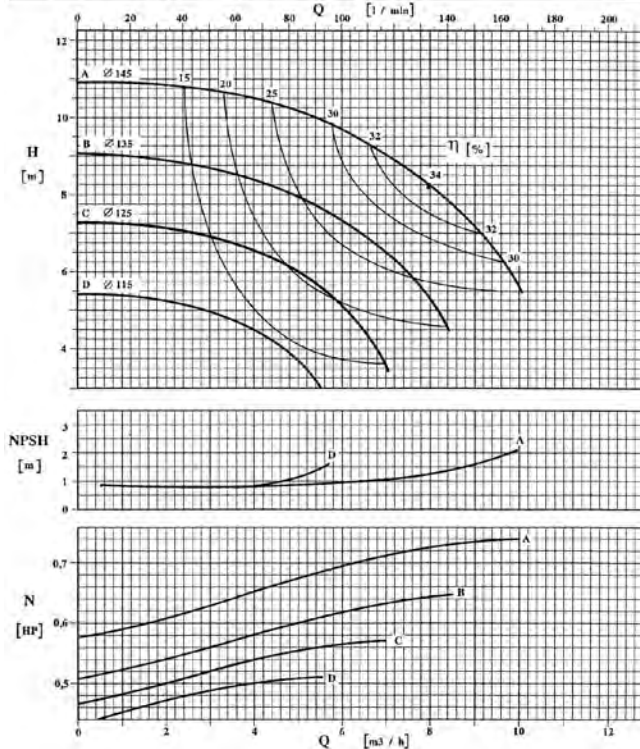
POMPA TIPO Pump type		CS 25 - 175				n	1750	giri / min r. p. m.
GIRANTE Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 32	
APERTA	6	3,5 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 25	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



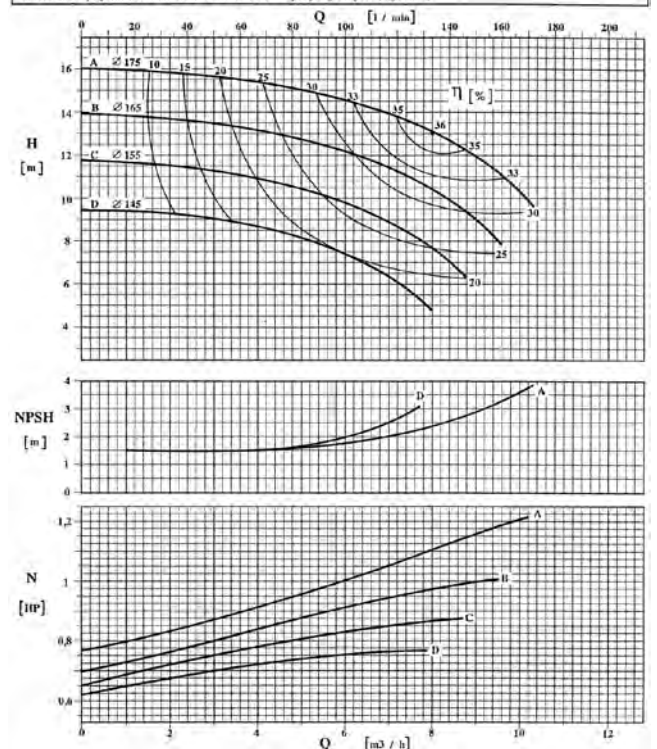
POMPA TIPO Pump type		CS-CSA 32 - 145				n	1750	giri / min r. p. m.
GIRANTE Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 40	
APERTA	6	5 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 32	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



POMPA TIPO Pump type		CS-CSA 32 - 175				n	1750	giri / min r. p. m.
GIRANTE Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 40	
APERTA	6	4 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 32	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)

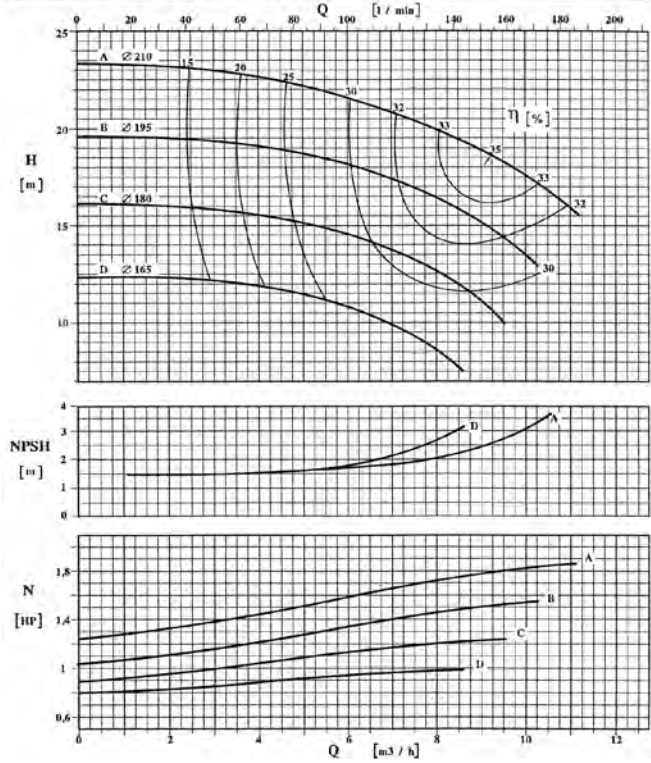


CURVE CARATTERISTICHE PERFORMANCE CURVES

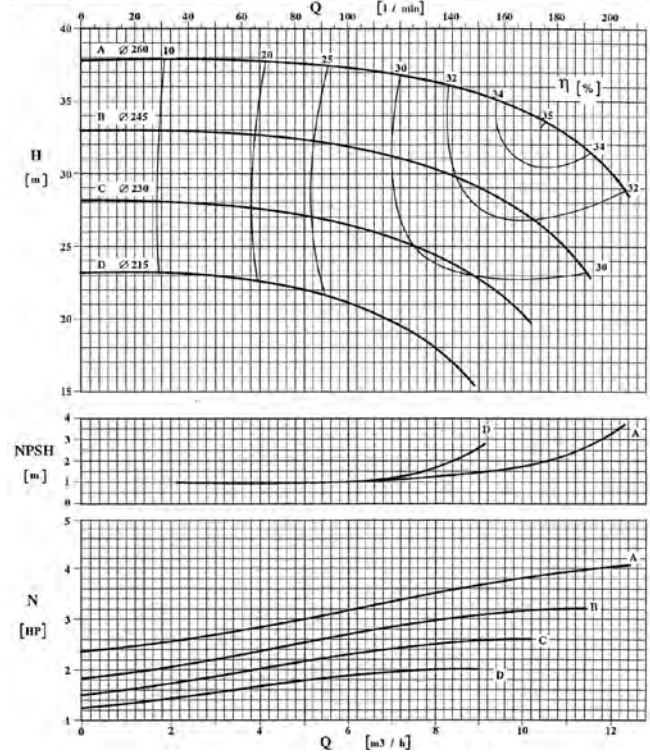
Serie CS-CSA CS-CSA Series

1750 giri/min - 1750 rpm

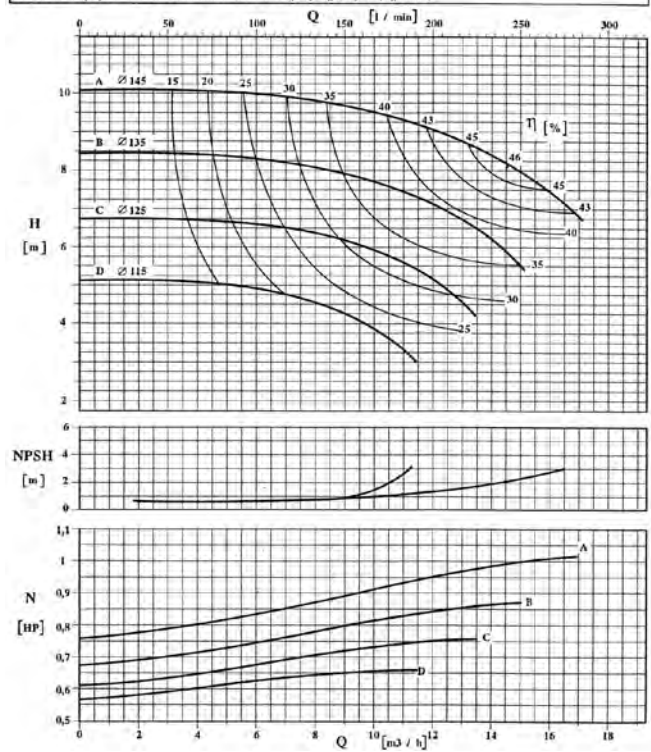
POMPA TIPO Pump type		CS-CSA 32 - 210				n	1750	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 40	
APERTA	6	4 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 32	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)								



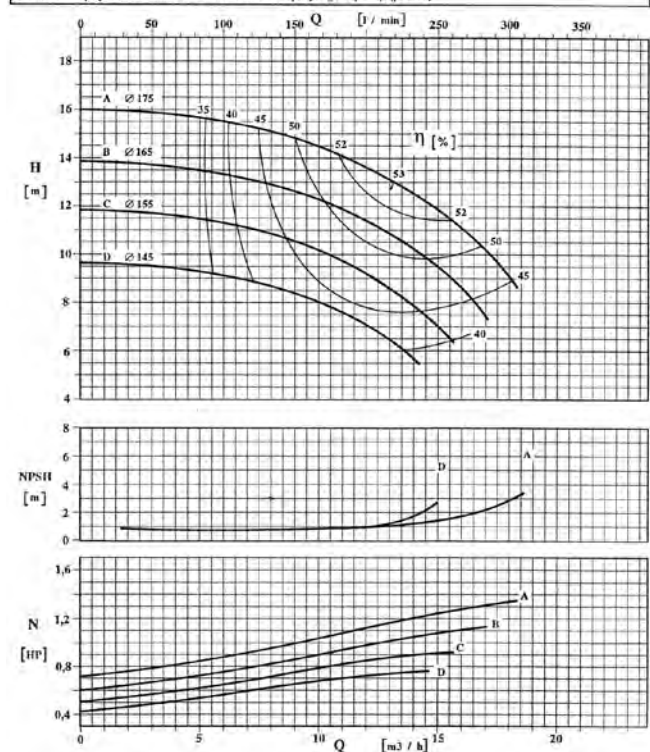
POMPA TIPO Pump type		CS-CSA 32 - 260				n	1750	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 50	
APERTA	6	5 mm	260 mm	210 mm	DIN 11851	Bocca mand. Discharge port	DN 32	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)								



POMPA TIPO Pump type		CS-CSA 40 - 145				n	1750	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 50	
APERTA	6	6 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 40	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)								



POMPA TIPO Pump type		CS-CSA 40 - 175				n	1750	giri / min r. p. m.
GIRANTE - Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 50	
APERTA	6	5,5 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 40	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)								



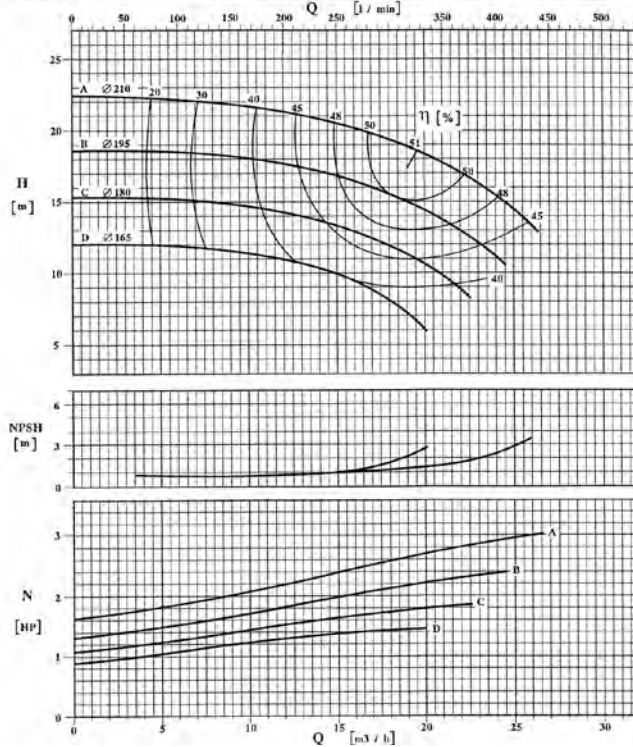
CURVE CARATTERISTICHE PERFORMANCE CURVES

Serie CS-CSA CS-CSA Series

1750 giri/min - 1750 rpm

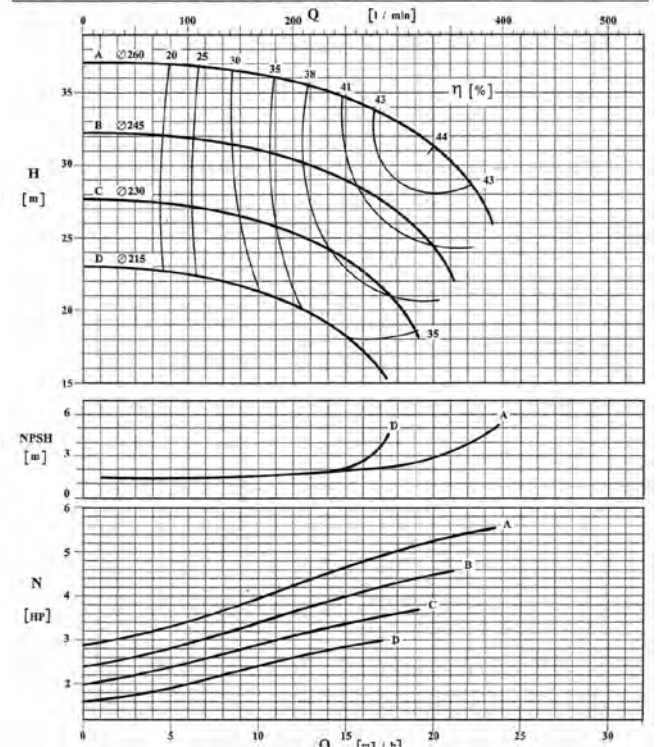
POMPA TIPO Pump type		CS-CSA 40 - 210		n	1750	giri / min r. p. m.
GIRANTE Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sterico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port
APERTA	6	6 mm	210 mm	165 mm	DIN 11851	DN 50
						Bocca mand. Discharge port
						DN 40

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)



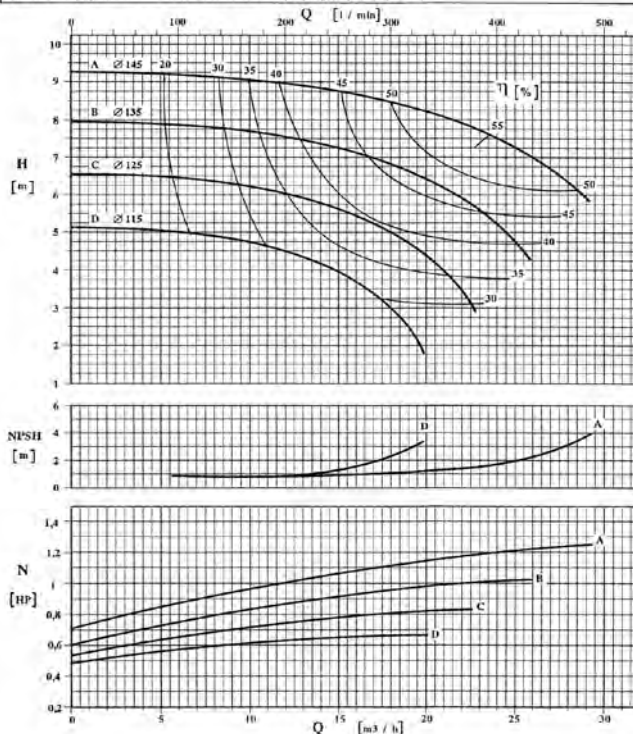
POMPA TIPO Pump type		CS-CSA 40 - 260		n	1750	giri / min r. p. m.
GIRANTE Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sterico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port
APERTA	6	7 mm	260 mm	210 mm	DIN 11851	DN 50
						Bocca mand. Discharge port
						DN 40

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)



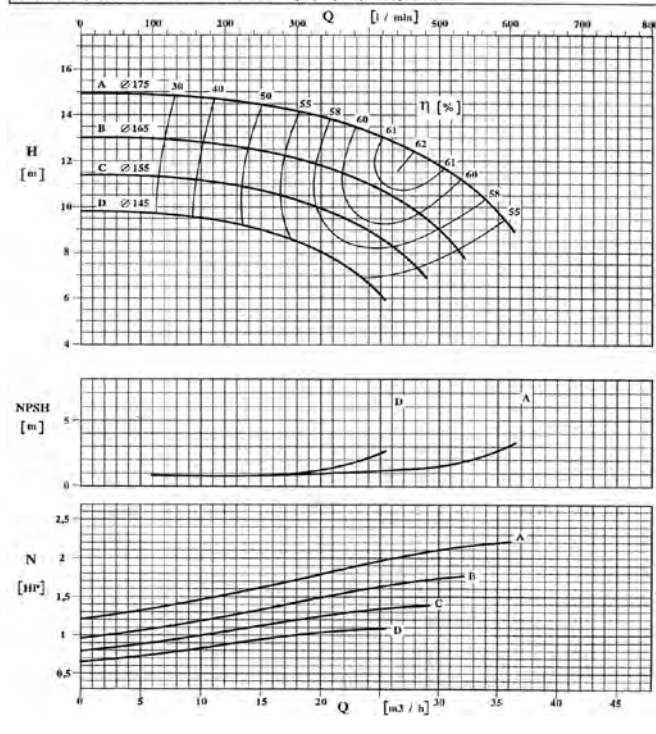
POMPA TIPO Pump type		CS-CSA 50 - 145		n	1750	giri / min r. p. m.
GIRANTE Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sterico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port
APERTA	6	10 mm	145 mm	115 mm	DIN 11851	DN 65
						Bocca mand. Discharge port
						DN 50

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)



POMPA TIPO Pump type		CS-CSA 50 - 175		n	1750	giri / min r. p. m.
GIRANTE Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sterico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port
APERTA	6	8 mm	175 mm	145 mm	DIN 11851	DN 65
						Bocca mand. Discharge port
						DN 50

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)



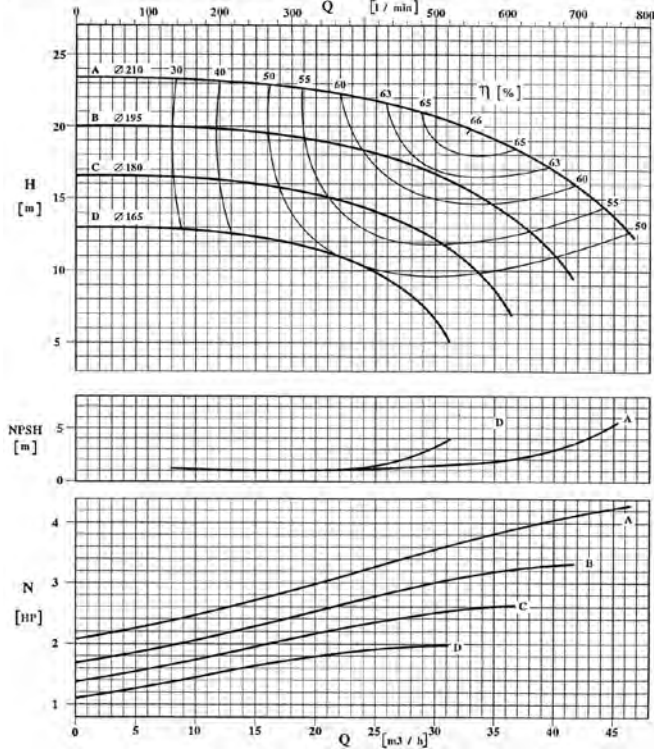
CURVE CARATTERISTICHE PERFORMANCE CURVES

Serie CS-CSA CS-CSA Series

1750 giri/min - 1750 rpm

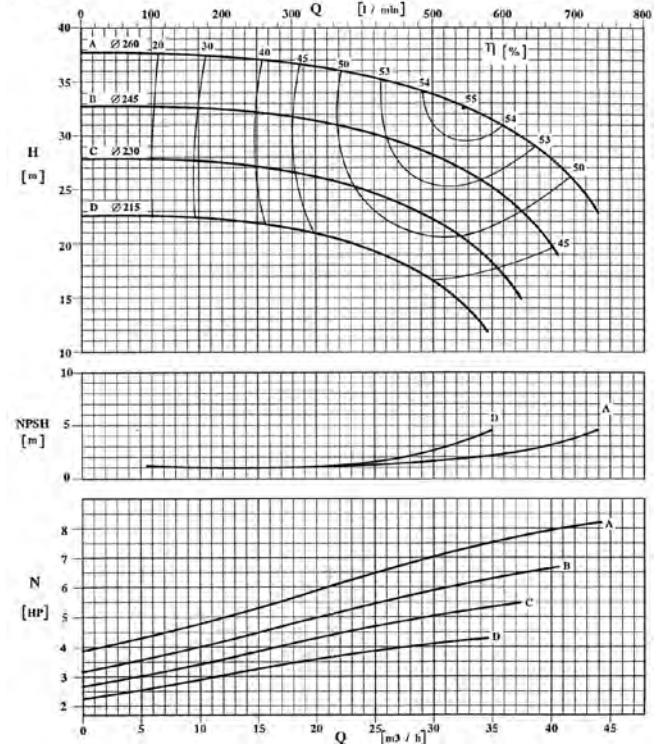
POMPA TIPO Pump type		CS-CSA 50 - 210				n	1750	giri / min r. p. m.
GIRANTE — Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	∅ max max. diameter	∅ min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 65	
APERTA	6	8 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 50	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



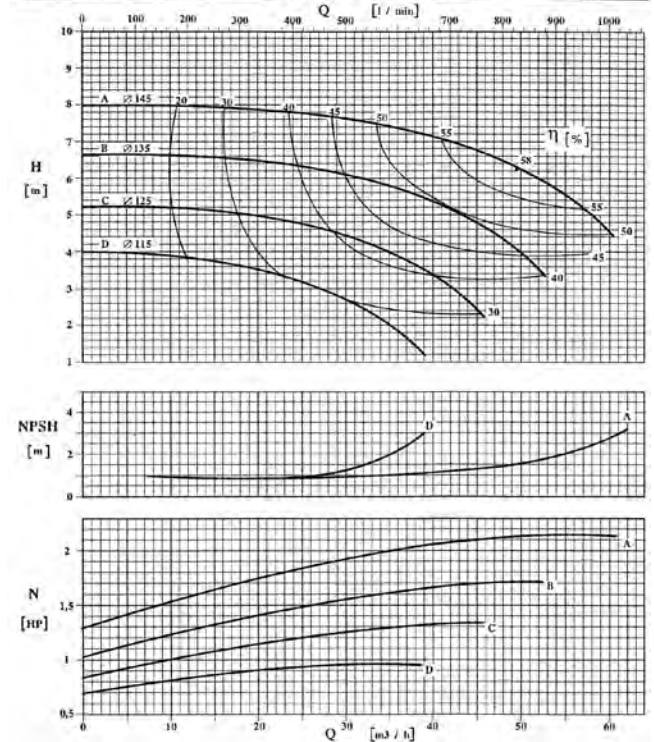
POMPA TIPO Pump type		CS-CSA 50 - 260				n	1750	giri / min r. p. m.
GIRANTE — Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	∅ max max. diameter	∅ min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 65	
APERTA	6	6 mm	260 mm	210 mm	DIN 11851	Bocca mand. Discharge port	DN 50	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



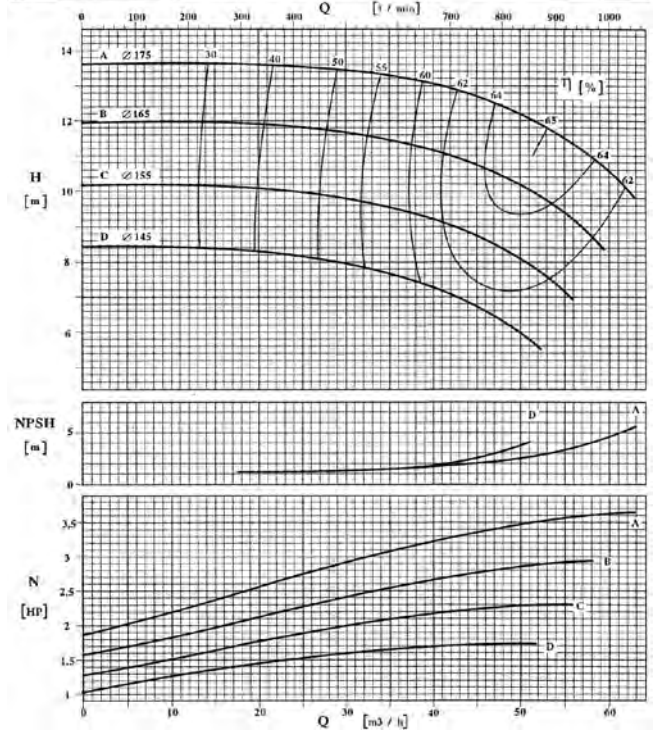
POMPA TIPO Pump type		CS-CSA 65 - 145				n	1750	giri / min r. p. m.
GIRANTE — Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	∅ max max. diameter	∅ min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 80	
APERTA	6	17 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 65	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



POMPA TIPO Pump type		CS-CSA 65 - 175				n	1750	giri / min r. p. m.
GIRANTE — Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	∅ max max. diameter	∅ min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 80	
APERTA	6	16 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 65	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)



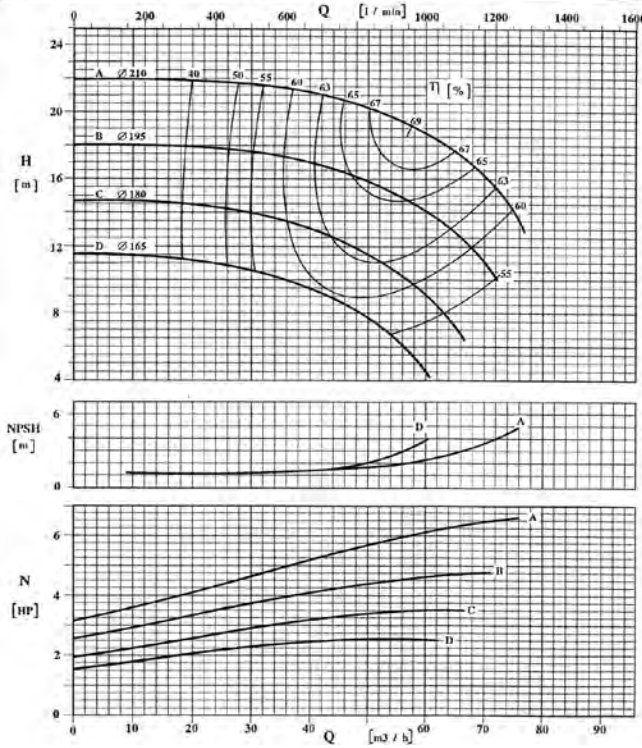
CURVE CARATTERISTICHE PERFORMANCE CURVES

Serie CS-CSA CS-CSA Series

1750 giri/min - 1750 rpm

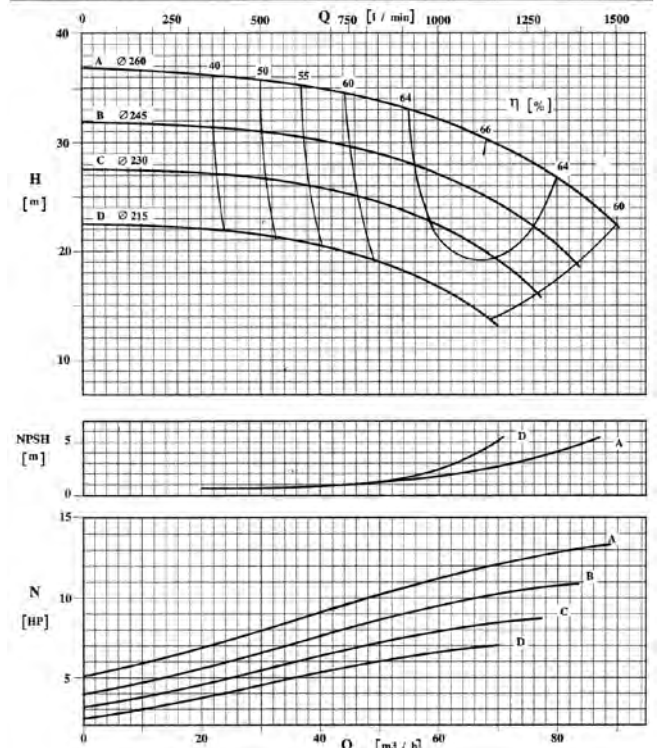
POMPA TIPO Pump type		CS-CSA 65 - 210				n	1750	giri / min r. p. m.
		GIRANTE - Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 80	
APERTA	6	12 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 65	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)



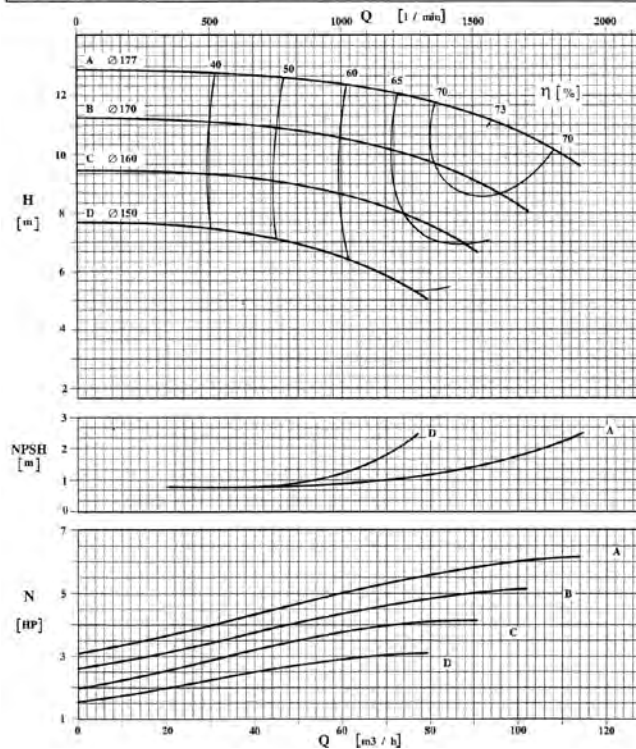
POMPA TIPO Pump type		CS - CSA 65 - 260				n	1750	giri / min r. p. m.
		GIRANTE - Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 80	
APERTA	6	10.5 mm	260 mm	210 mm	DIN 11851	Bocca mand. Discharge port	DN 65	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)



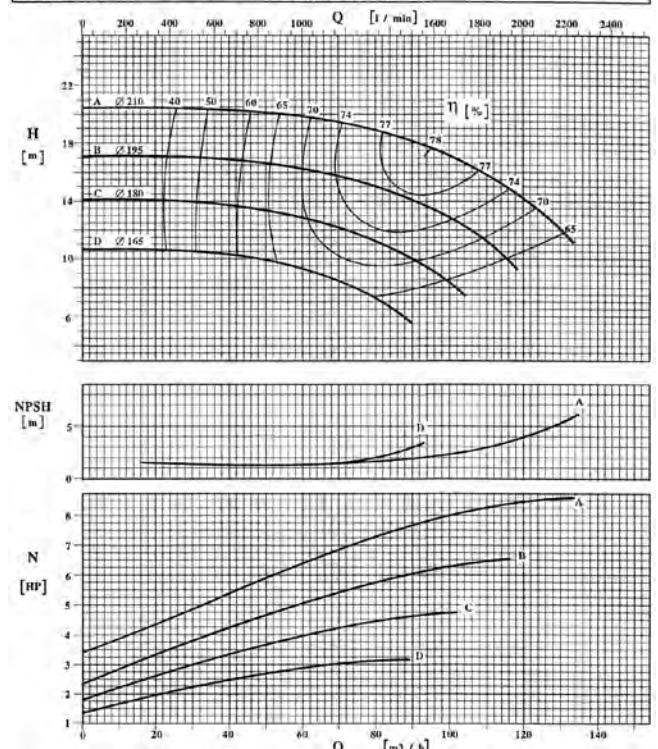
POMPA TIPO Pump type		CS - CSA 80 - 175				n	1750	giri / min r. p. m.
		GIRANTE - Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 100	
APERTA	6	22 mm	177 mm	150 mm	DIN 11851	Bocca mand. Discharge port	DN 80	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)



POMPA TIPO Pump type		CS-CSA 80 - 210				n	1750	giri / min r. p. m.
		GIRANTE - Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 100	
APERTA	6	15 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 80	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)

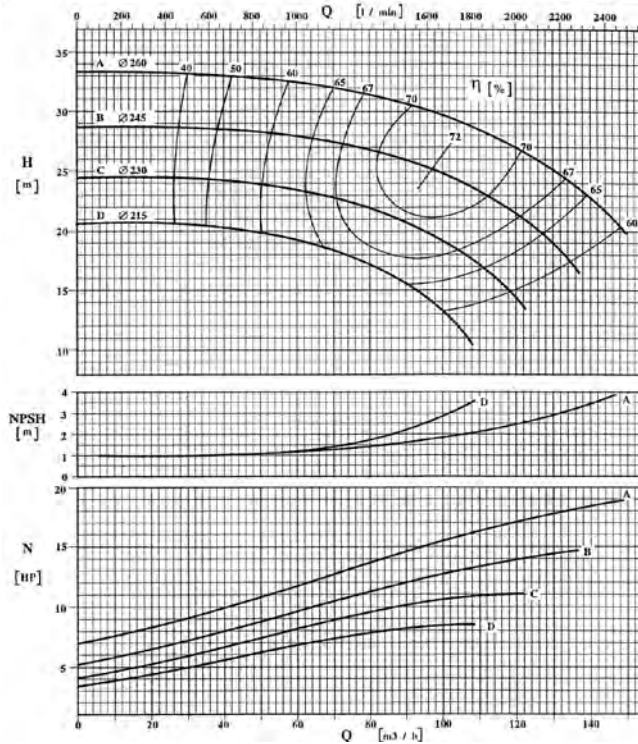


CURVE CARATTERISTICHE PERFORMANCE CURVES

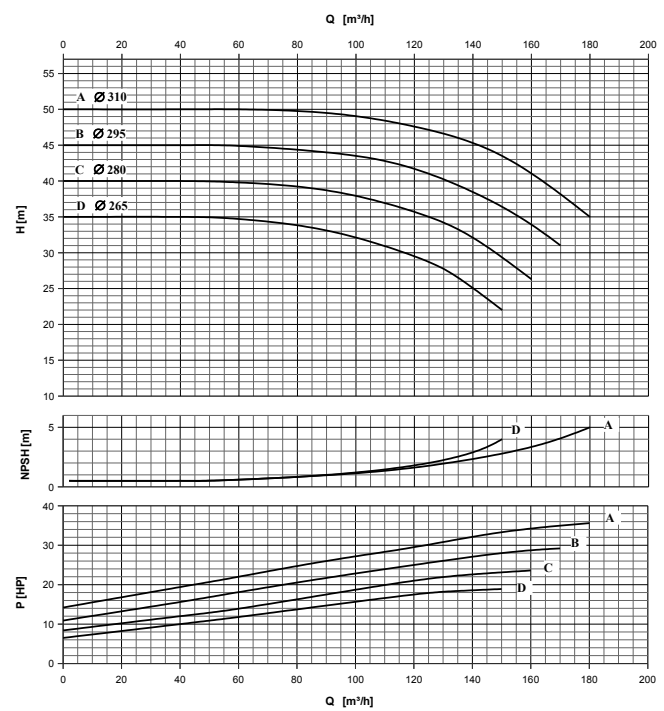
Serie CS-CSA CS-CSA Series

1750 giri/min - 1750 rpm

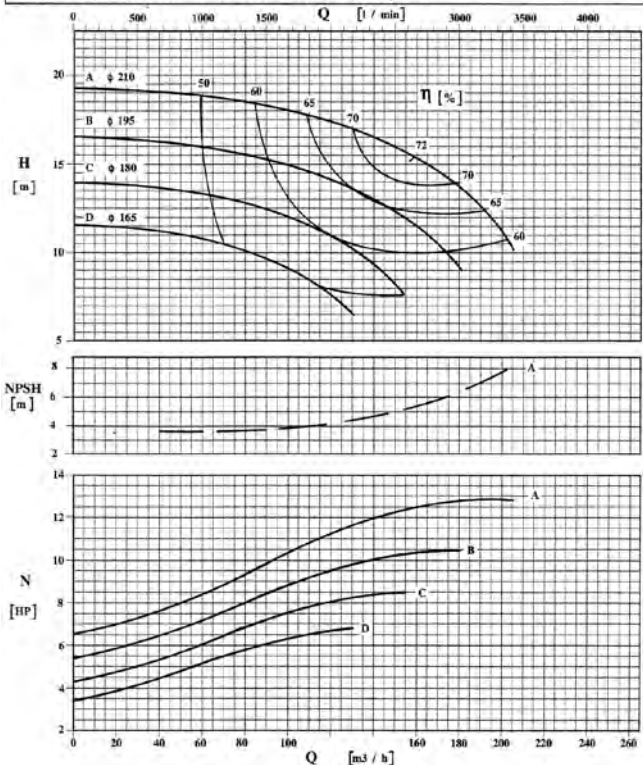
POMPA TIPO Pump type		CS-CSA 80 - 260				n	1750	giri / min r. p. m.
GIRANTE ----- Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 100	
APERTA	6	14 mm	260 mm	200 mm	DIN 11851	Bocca mand. Discharge port	DN 80	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm ³)								



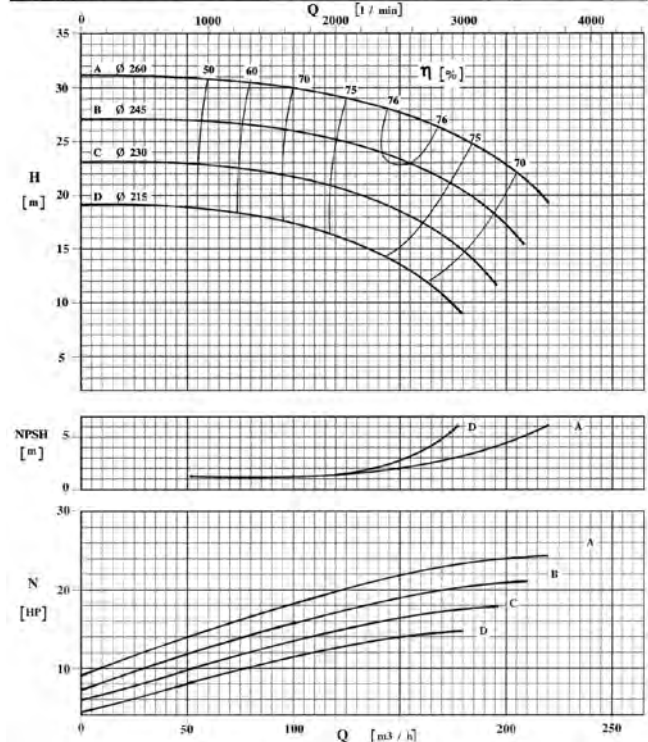
POMPA TIPO Pump type		CS 80 - 310				n	1750	giri/min r.p.m.
GIRANTE ----- Impeller								
TIPO Type	N° di pale n° of blades	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 100	
APERTA	6	23 mm	310 mm	265 mm	DIN 11851	Bocca mand. Discharge port	DN 80	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 Kg/dm ³ Curves show performance with clear water at 20°C - Specific gravity 1 Kg/dm ³								



POMPA TIPO Pump type		CS - CSA 100 - 210				n	1750	giri / min r. p. m.
GIRANTE ----- Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 125	
APERTA	6	28 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 100	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm ³)								



POMPA TIPO Pump type		CS-CSA 100 - 260				n	1750	giri / min r. p. m.
GIRANTE ----- Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 125	
APERTA	6	25 mm	260 mm	210 mm	DIN 11851	Bocca mand. Discharge port	DN 100	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm ³)								

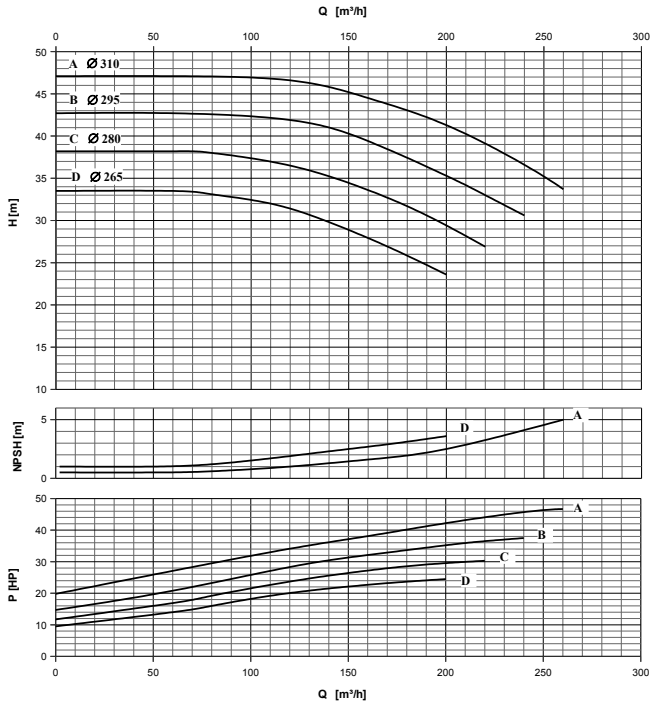


CURVE CARATTERISTICHE PERFORMANCE CURVES

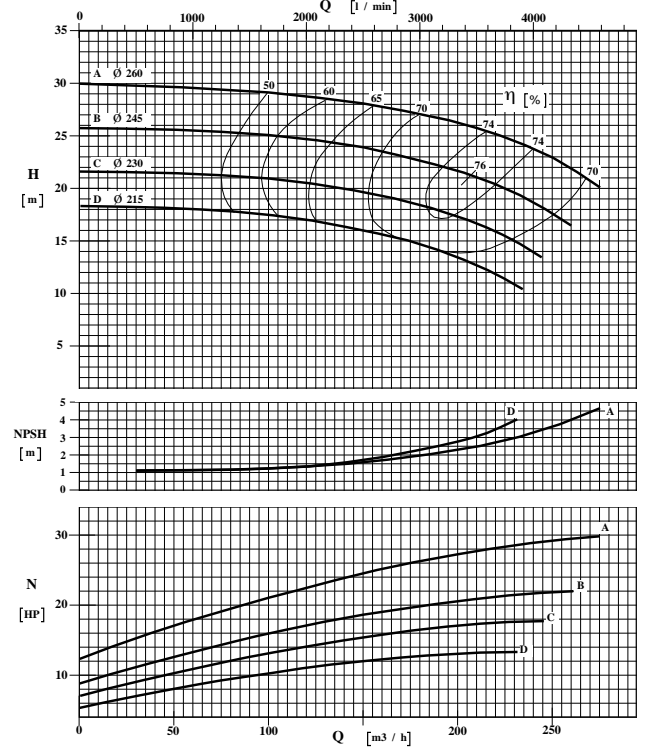
Serie CS-CSA CS-CSA Series

1750 giri/min - 1750 rpm

POMPA TIPO Pump type		CS 100 - 310		n 1750	giri/min r.p.m.
GIRANTE ----- Impeller					
TIPO Type	N° di pale n° of blades	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type
APERTA	6	30 mm	310 mm	265 mm	DIN 11851
					Bocca aspir. Suction port
					DN 125
					Bocca mand. Discharge port
					DN 100
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20 °C - PESO SPECIFICO 1 kg/dm ³ Curves show performance with clear water at 70 °F - Specific gravity 1 kg/dm ³					



POMPA TIPO Pump type		CS 125 - 260		n 1750	giri / min r. p. m.
GIRANTE ----- Impeller					
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type
APERTA	6	32 mm	260 mm	210 mm	DIN 11851
					Bocca aspir. Suction port
					DN 150
					Bocca mand. Discharge port
					DN 125
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20 °C - PESO SPECIFICO 1 (kg / dm ³) Curves show performance with clear water at 70 °F - Specific gravity 1 (kg / dm ³)					



CURVE CARATTERISTICHE

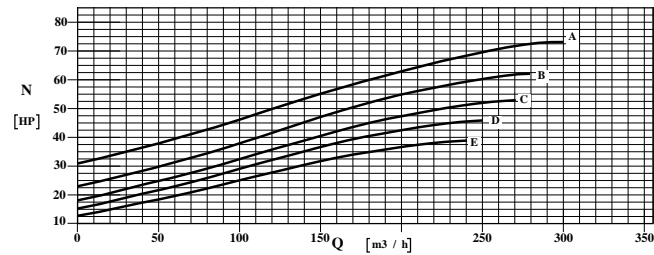
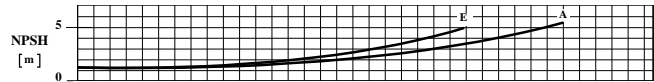
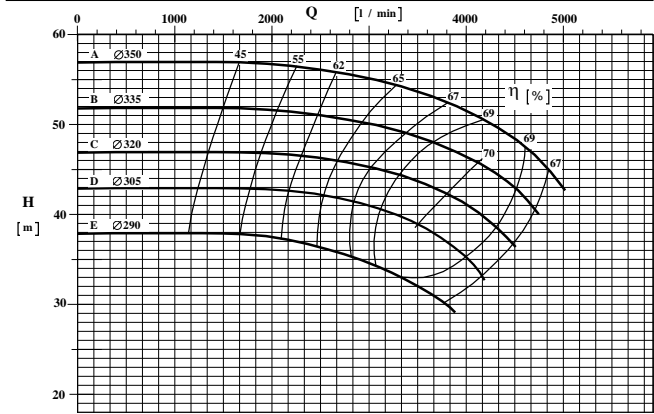
PERFORMANCE CURVES

Serie CS-CSK

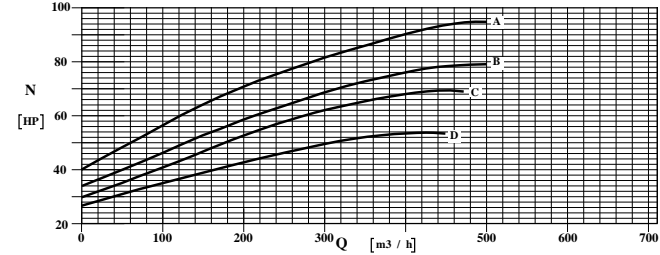
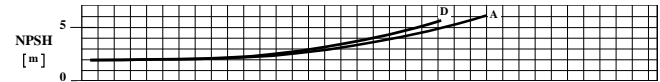
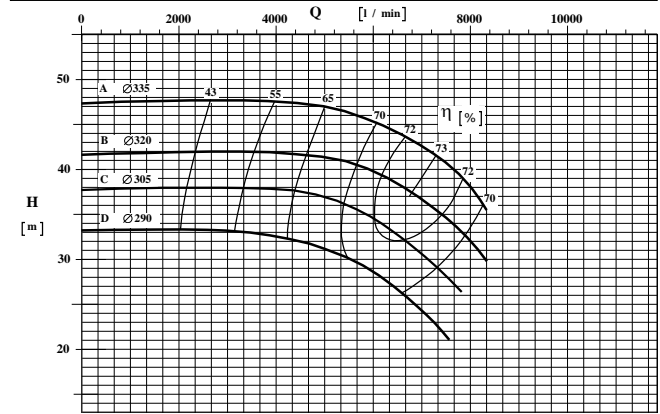
CS-CSK Series

1750 giri/min - 1750 rpm

POMPA TIPO Pump type		CSK 125 - 350			n	1760	giri / min r. p. m.
GIRANTE — Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Flange tipo Flanges type	Bocca aspir. Suction port	DN 150
APERTA	6	18 mm	350 mm	285 mm	UNI PN 16	Bocca mand. Discharge port	DN 125
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm ³)							



POMPA TIPO Pump type		CSK 150- 350			n	1760	giri / min r. p. m.
GIRANTE — Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Flange tipo Flanges type	Bocca aspir. Suction port	DN 200
APERTA	6	24 mm	335 mm	285 mm	UNI PN 16	Bocca mand. Discharge port	DN 150
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm ³)							



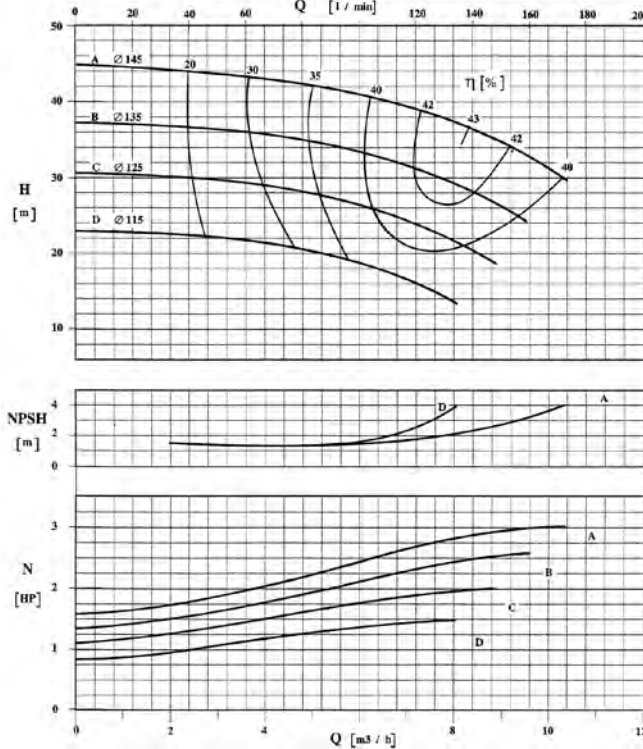
CURVE CARATTERISTICHE PERFORMANCE CURVES

Serie CS-CSA CS-CSA Series

3500 giri/min - 3500 rpm

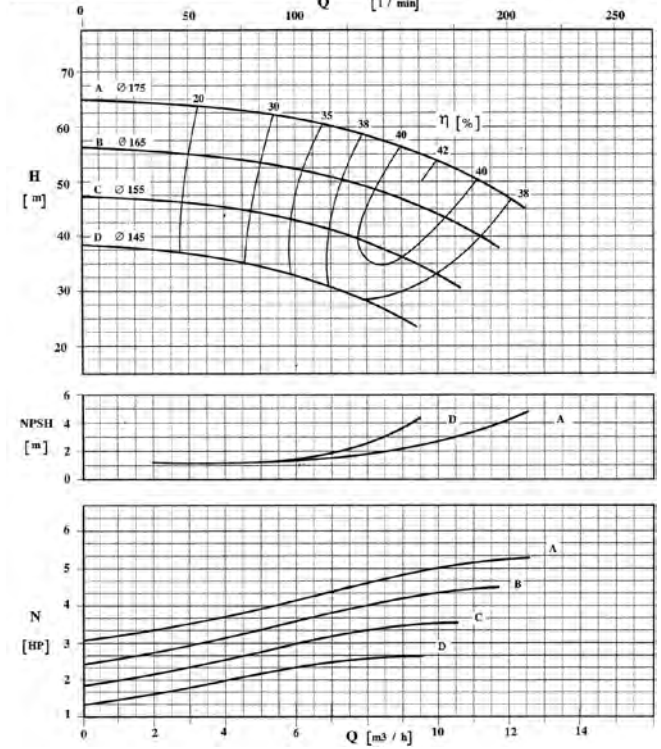
POMPA TIPO Pump type		CS 25 - 145				n	3500	giri / min r. p. m.
GIRANTE — Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 32	
APERTA	6	3,5 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 25	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)



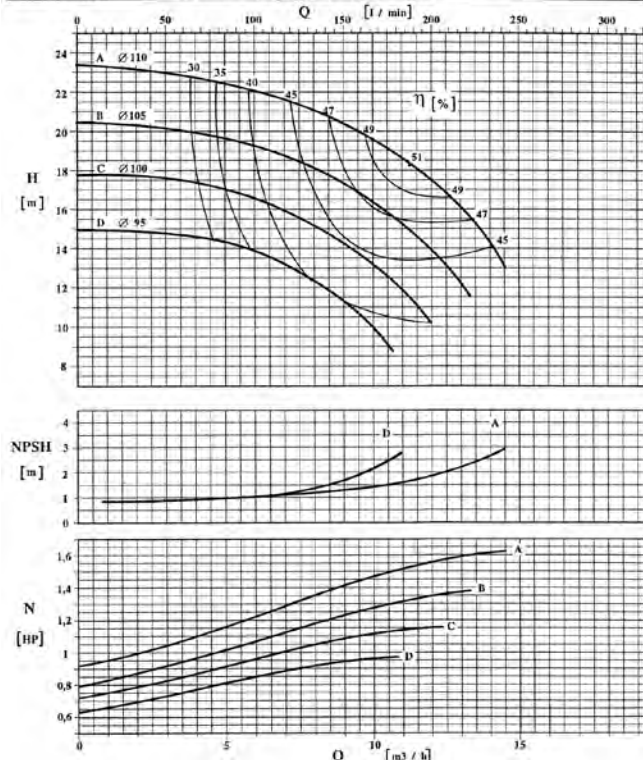
POMPA TIPO Pump type		CS 25 - 175				n	3500	giri / min r. p. m.
GIRANTE — Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 32	
APERTA	6	3,5 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 25	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)



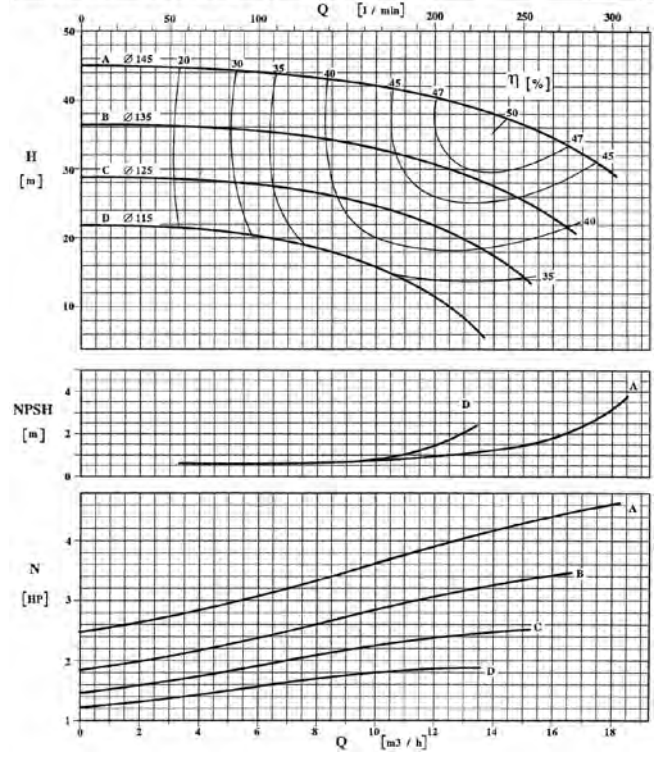
POMPA TIPO Pump type		CS 32-110				n	3500	giri / min r. p. m.
GIRANTE — Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 40	
APERTA	6	4 mm	110 mm	95 mm	DIN 11851	Bocca mand. Discharge port	DN 32	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)



POMPA TIPO Pump type		CS-CSA 32 - 145				n	3500	giri / min r. p. m.
GIRANTE — Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 40	
APERTA	6	5 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 32	

CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³)
Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm³)

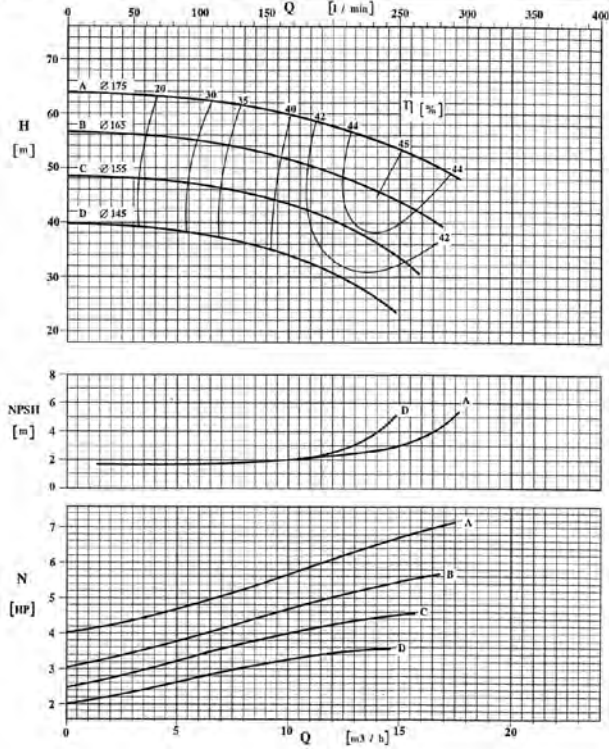


CURVE CARATTERISTICHE PERFORMANCE CURVES

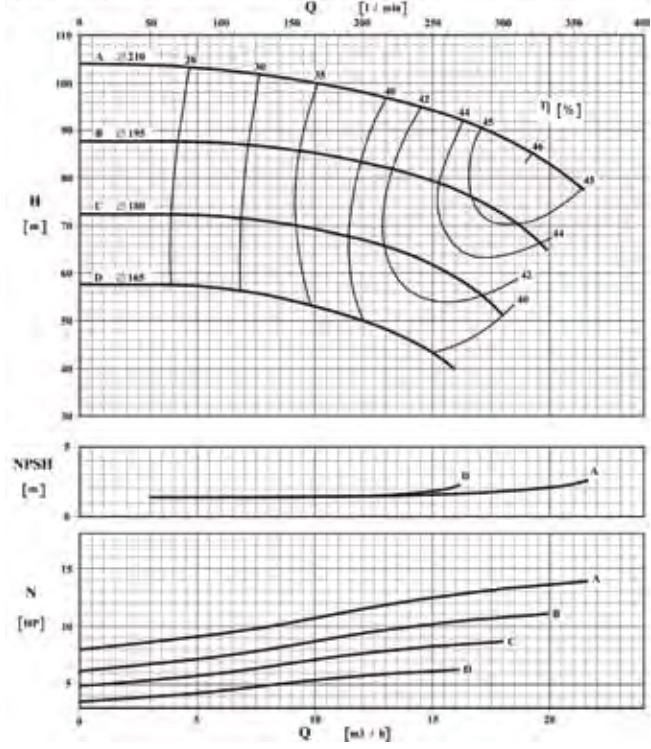
Serie CS-CSA CS-CSA Series

3500 giri/min - 3500 rpm

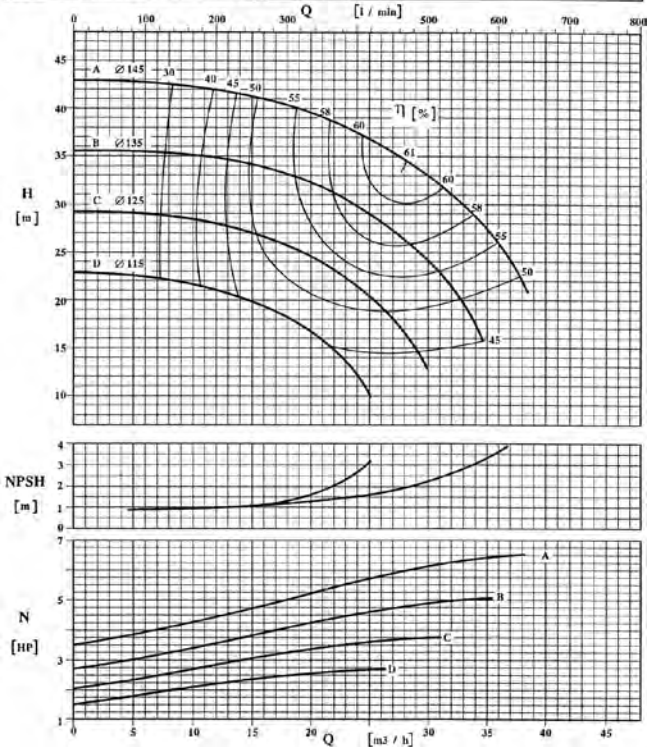
POMPA TIPO Pump type		CS-CSA 32 - 175				n	3500	giri / min r. p. m.
GIRANTE — Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 40	
APERTA	6	4 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 32	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm ³)								



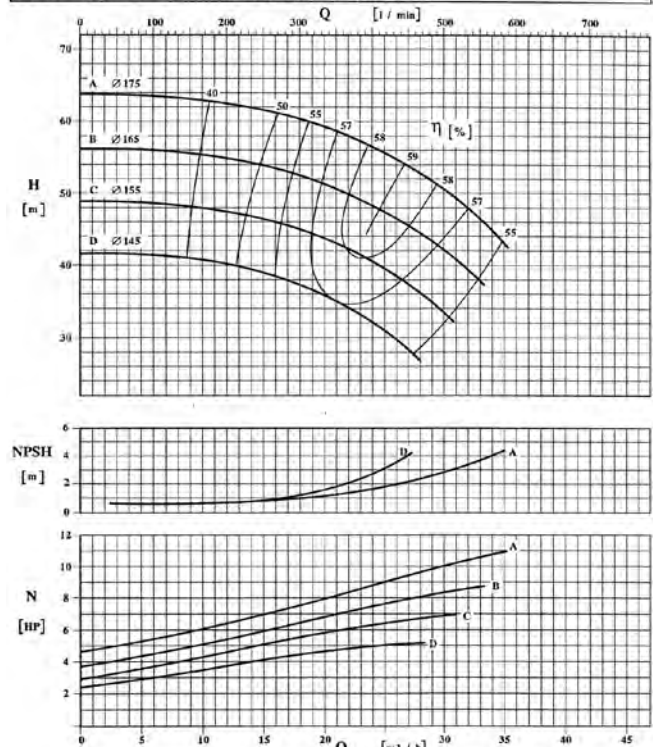
POMPA TIPO Pump type		CS - CSA 32 - 210				n	3500	giri / min r. p. m.
GIRANTE — Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 40	
APERTA	6	4 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 32	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm ³)								



POMPA TIPO Pump type		CS-CSA 40 - 145				n	3500	giri / min r. p. m.
GIRANTE — Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 50	
APERTA	6	6 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 40	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm ³)								



POMPA TIPO Pump type		CS-CSA 40 - 175				n	3500	giri / min r. p. m.
GIRANTE — Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 50	
APERTA	6	5,5 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 40	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm ³)								

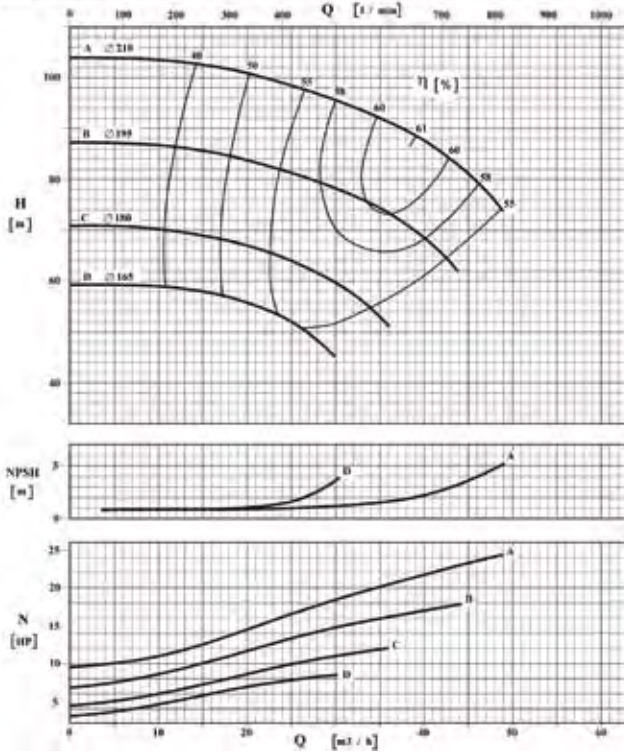


CURVE CARATTERISTICHE PERFORMANCE CURVES

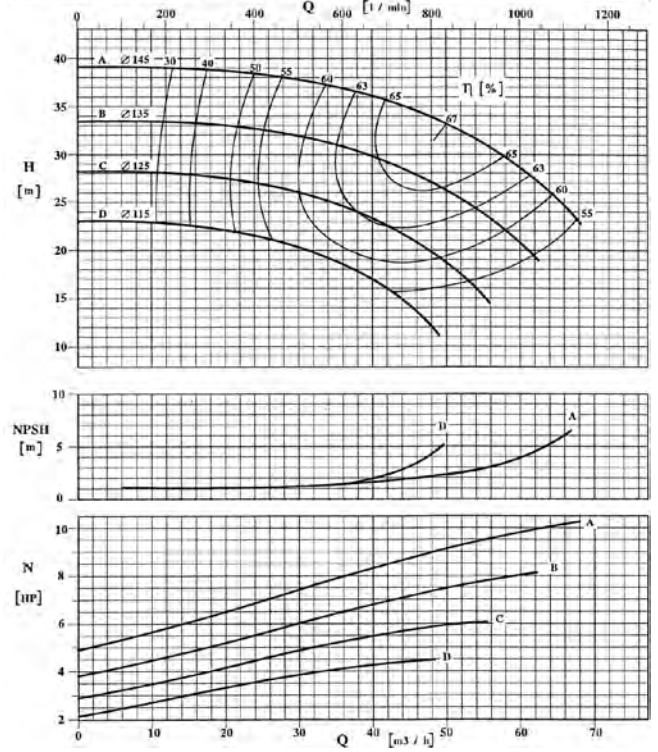
Serie CS-CSA CS-CSA Series

3500 giri/min - 3500 rpm

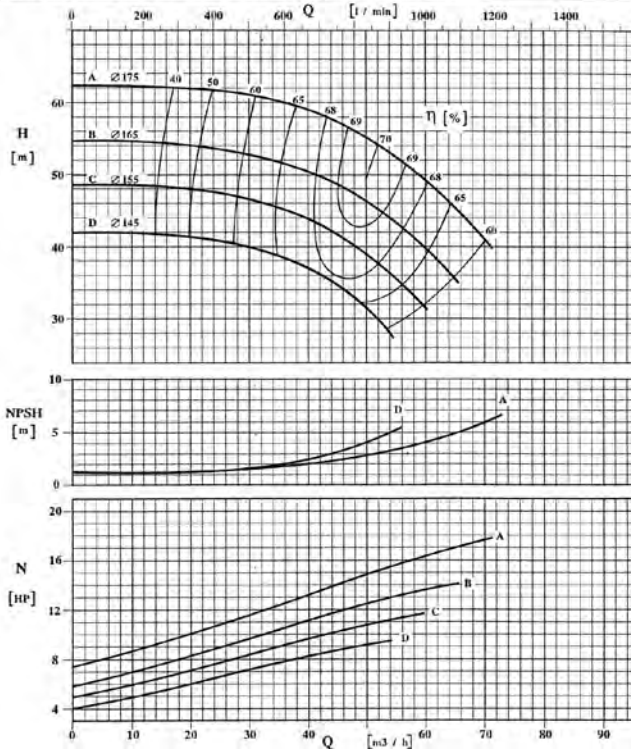
POMPA TIPO Pump type		CS - CSA 40 - 210				n	3500	giri / min r. p. m.
GIRANTE — Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 50	
APERTA	6	6 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 40	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)								



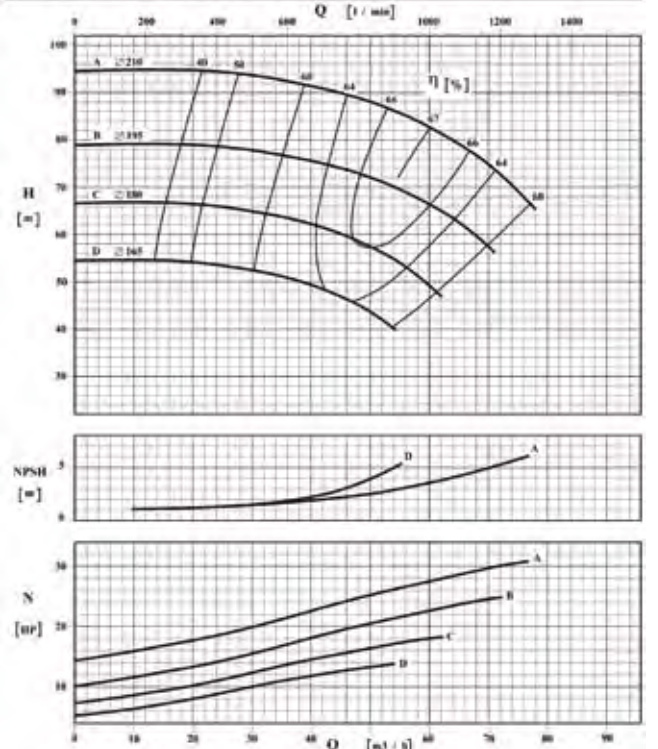
POMPA TIPO Pump type		CS-CSA 50 - 145				n	3500	giri / min r. p. m.
GIRANTE — Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 65	
APERTA	6	10 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 50	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)								



POMPA TIPO Pump type		CS-CSA 50 - 175				n	3500	giri / min r. p. m.
GIRANTE — Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 65	
APERTA	6	8 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 50	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)								



POMPA TIPO Pump type		CS - CSA 50 - 210				n	3500	giri / min r. p. m.
GIRANTE — Impeller								
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 65	
APERTA	6	8 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 50	
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm³)								

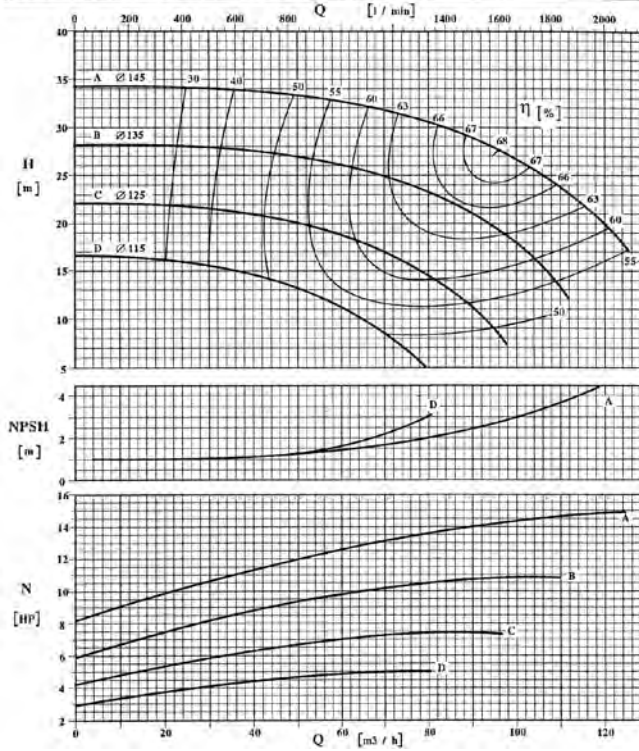


CURVE CARATTERISTICHE PERFORMANCE CURVES

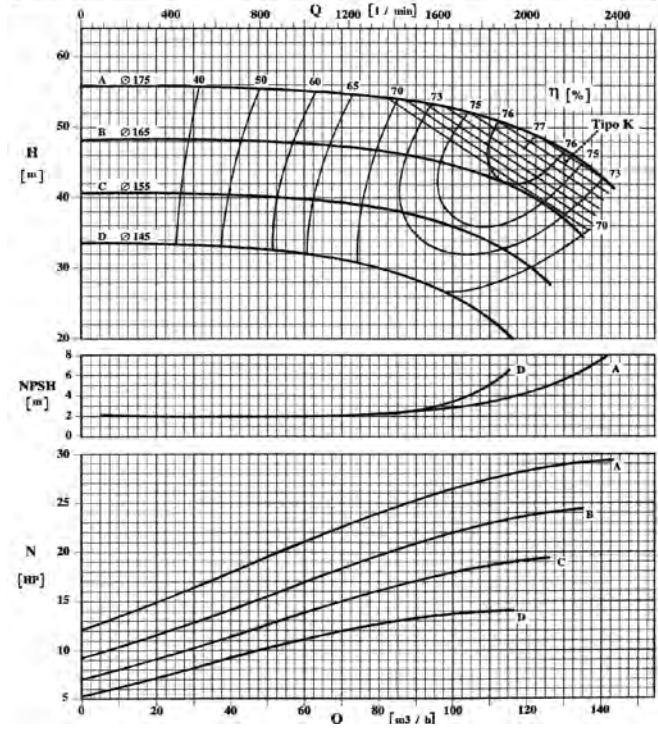
Serie CS-CSA CS-CSA Series

3500 giri/min - 3500 rpm

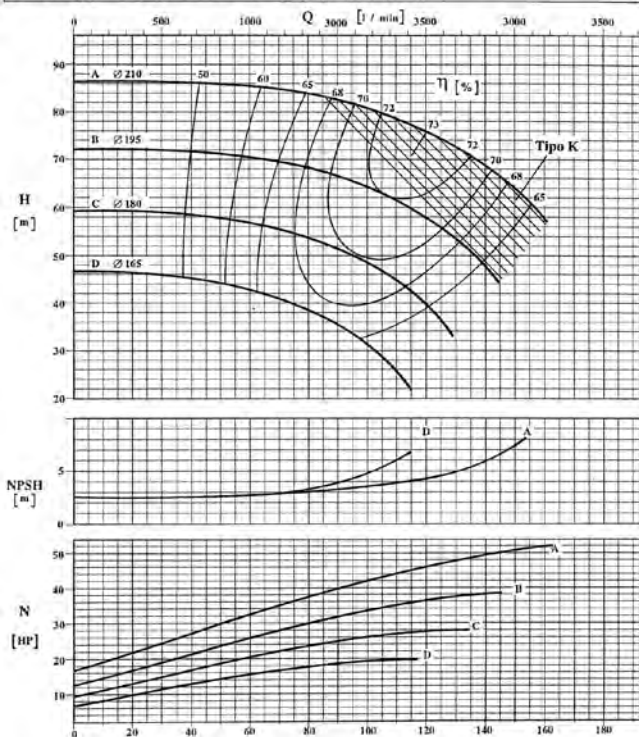
POMPA TIPO Pump type		CS-CSA 65 - 145			n	3500	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	∅ max max. diameter	∅ min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 80
APERTA	6	18 mm	145 mm	115 mm	DIN 11851	Bocca mand. Discharge port	DN 65
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm ³)							



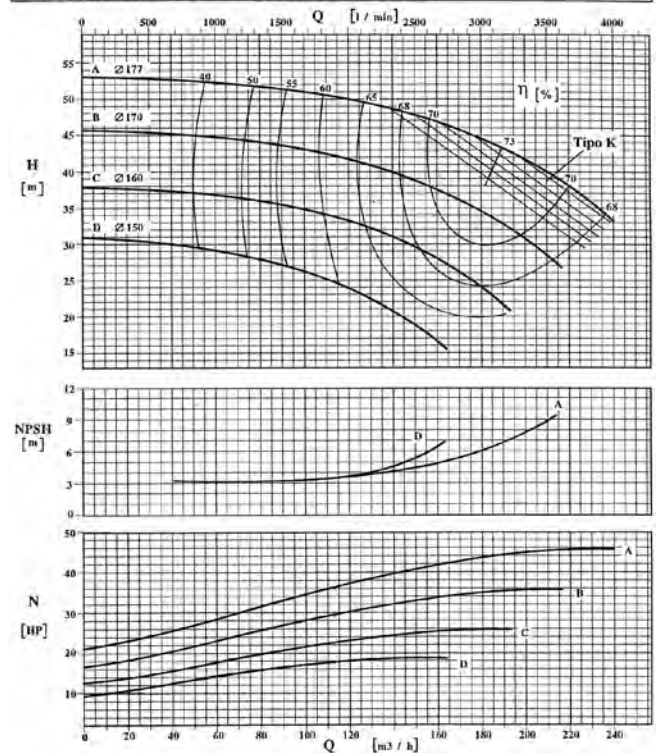
POMPA TIPO Pump type		CS - CSA 65 - 175			n	3500	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	∅ max max. diameter	∅ min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 80
APERTA	6	16 mm	175 mm	145 mm	DIN 11851	Bocca mand. Discharge port	DN 65
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm ³)							



POMPA TIPO Pump type		CS-CSA 65 - 210			n	3500	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	∅ max max. diameter	∅ min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 80
APERTA	6	12 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 65
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm ³)							



POMPA TIPO Pump type		CS-CSA 80 - 175			n	3500	giri / min r. p. m.
GIRANTE - Impeller							
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	∅ max max. diameter	∅ min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 100
APERTA	6	22 mm	177 mm	150 mm	DIN 11851	Bocca mand. Discharge port	DN 80
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 20°C - Specific gravity 1 (kg/dm ³)							



CURVE CARATTERISTICHE PERFORMANCE CURVES

Serie CS-CSA CS-CSA Series

3500 giri/min - 3500 rpm

POMPA TIPO Pump type		CS-CSA 80 - 210			n	3500	giri / min r. p. m.
GIRANTE <i>Impeller</i>							
TIPO Type	N° di pale n° of vanes	Pass. sterzan imp. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port	DN 100
APERTA	6	15 mm	210 mm	165 mm	DIN 11851	Bocca mand. Discharge port	DN 80
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm ³) Curves show performance with clear water at 70°F. Specific gravity 1 (kg/dm ³)							

