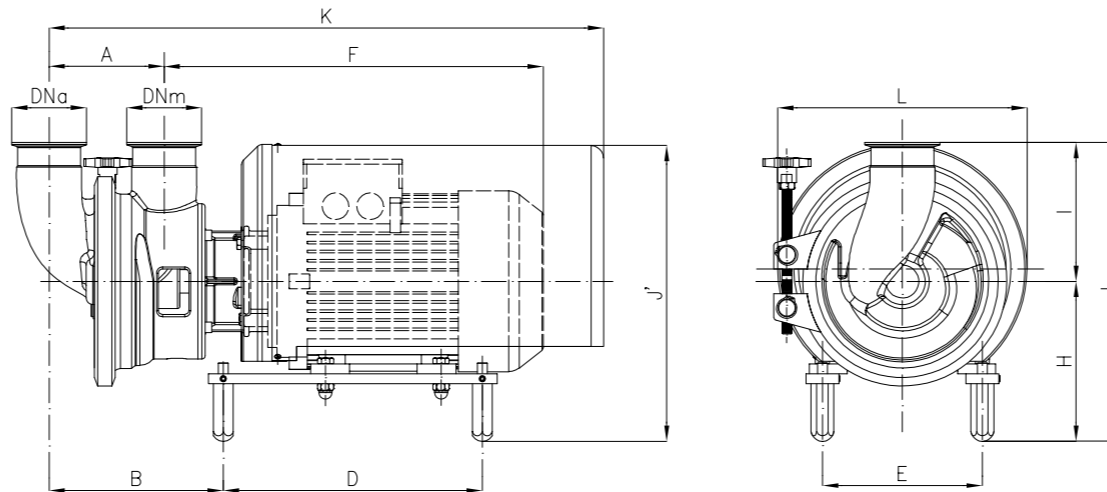


Pump type	IEC motor dimensions:	DNa	DNm	A	B	C	D	E	F	G	H	K	K'	I	J	J'	L			
CSA 50-210	90	2 1/2	2"	80	175	141	254	140	422	120	240	502	569	168	408	412	298			
	100				161	142	314	160	454			534	639					448	543	430
	112				168	142	314	190	475			555	639					473	637	420
	132 S				180	164	389	216	537			661	737					448	543	430
	132 M				173	208	460	254	686			280	766					473	637	420
CSA 50-260	160	2 1/2	2"	90	194	165	314	160	477	145	270	567	672	179	449	475	330			
	180				201	165	314	190	498			588	672					459	543	430
	160				273	228	460	254	706			280	796					459	543	430
	180				188	228	600	279	788			305	878					484	637	420
	132 S				172	145	254	125	379			458	572					383	409	298
CSA 65-145	90	3"	3"	79	178	145	254	140	426	112	245	505	572	138	383	409	298			
	100				164	146	314	160	458			537	642					393	477	370
	112				171	146	314	190	479			558	642					418	543	430
	132 S				183	168	389	216	541			620	685					418	543	430
	132 M				246	212	460	254	690			280	769					443	637	420
CSA 65-175	160	3"	3"	80	178	144	254	140	425	120	255	505	572	138	393	460	330			
	90				164	145	314	160	457			537	642					418	543	430
	100				171	145	314	190	478			558	642					429	298	
	112				183	167	389	216	540			620	685					418	543	430
	132 S				246	211	460	254	689			280	769					443	637	420
CSA 65-210	160	3"	3"	90	174	224	600	279	784	135	265	571	676	158	423	470	330			
	90				212	168	254	140	449			539	605					429	298	
	100				198	169	314	160	481			571	676					438	543	430
	112				205	169	314	190	502			592	676					463	637	420
	160				276	231	460	254	709			280	799					463	637	420
CSA 65-260	180	3"	3"	100	191	600	279	791	305	881	1090	580	685	193	478	507	370			
	100				207	168	314	160	480	601	685	498	637					420		
	112				214	168	314	190	501	601	685	498	637					420		
	132 S				226	190	389	216	563	663	728	498	637					420		
	132 M				285	230	460	254	708	808	983	548	430							
CSA 80-175	160	4"	3"	100	200	600	279	790	305	890	1099	586	691	164	439	480	330			
	100				231	174	315	160	486	586	691	498	637					420		
	112				220	174	315	190	507	607	691	498	637					420		
	132 S				231	195	389	216	568	668	734	497	370							
	160				291	240	600	279	800	280	814	444	543					430		
CSA 80-210	180	4"	3"	100	206	236	600	279	796	145	285	583	688	164	449	507	370			
	100				210	171	314	160	483			604	688					490	330	
	112				217	171	314	190	504			666	731					507	370	
	132 S				229	193	389	216	566			666	731					548	430	
	160				288	233	600	254	711			811	986					469	637	420
CSA 80-260	180	4"	3"	100	203	233	600	279	793	165	300	583	688	209	509	522	370			
	100				210	171	314	160	483			604	688					505	330	
	112				217	171	314	190	504			604	688					505	330	
	132 S				229	193	389	216	566			666	731					522	370	
	132 M				288	233	600	254	711			710	786					563	430	
CSA 100-210	160	5"	4"	111	288	233	460	254	711	161	305	811	986	214	519	527	370			
	180				246	200	389	216	573			683	750					634	420	
	132 M				221	240	600	279	800			911	1120					547	370	
CSA 100-260	160	5"	4"	115	246	195	389	216	612	186	325	727	803	216	541	588	430			
	180				305	460	254	713	828			1004	910					1118	657	420
	132 M				220	235	600	279	795			910	1118					657	420	

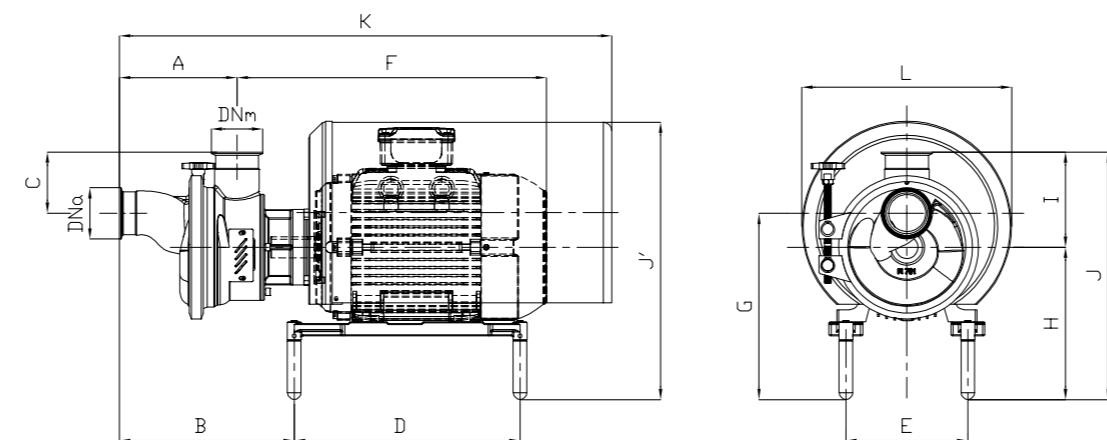
**OVERALL DIMENSIONS ASH series**  
Dimensions not binding - DN = DIN 32676-C clamp connection with standard IEC/EN motors

ASH STANDARD ports



Pump type	kW	DNa	DNm	A	B	D	E	F	H	K	I	J	J'	L
ASH 40	1,1/1,5	1" 1/2	1" 1/2	91,3	204	270	140	408,5	228,5	500	138,6	367	430	302,5
	2,2/3				201	285	150	477	238,5	616		377	466	333
ASH 50	2,2/3	2"	2"	119	241	285	150	477	238,5	644,5	148,6	387	466	333
	4				221	315	180	453,6	250,5			399	478	
ASH 60	5,5	3"	3"	139,5	214	400	216	539	270,5	738,5	168,6	419	492	372
	4				248	315	180	460	250,5	671,5		419	478	333
ASH 65	5,5/7,5/9,2	3"	3"	140	241	400	216	548,5	270,5	765,5	168,6	439	492	372
	11/15				241	400	216	548,5	270,5	766		439	492	372
					267	460	254	696	280,5	1040		449	579	480

ASH HORIZONTAL suction



Pump type	kW	DNa	DNm	A	B	C	D	E	F	G	H	K	I	J	J'	L
ASH 40	1,1/1,5	1" 1/2	1" 1/2	141,9	254,5	68,6	270	140	408,5	298,5	228,5	644	138,6	367	430	302,5
	2,2/3				251,5		285	150	477	308,5	238,5	667		377	466	333
ASH 50	2,2/3	2"	2"	166	276	88,6	285	150	477	298,5	238,5	691,5	148,6	387	466	333
	4				268		315	180	453,6	308,5	250,5			399	478	
ASH 60	5,5	3"	3"	207,6	261	108,6	400	216	539	330,5	270,5	785,5	168,6	419	492	372
	4				316		315	180	460	310,5	250,5	739,5		419	478	333
ASH 65	5,5/7,5/9,2	3"	3"	201	309	108,6	400	216	548,5	330,5	270,5	833,5	168,6	439	492	372
	11/15				302,5		400	216	548,5	330,5	270,5	827		439	492	372
					328		460	254	696	340,5	280,5	1101		449	579	480



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DCATLCSASHGB 25/08/21



**HYGIENIC CENTRIFUGAL PUMPS**  
**CSA series**

Sanitary centrifugal pumps in close-coupled version, with independent support.  
Designed, tested and approved according to EHEDG (European Hygienic Engineering & Design Group) specifications and 3-A Sanitary Standards, for use essentially in the food and pharmaceutical industries where specific health regulations are in force. Consequently, modular construction concepts have been created in suitable executions.

- Main features:  
-Open impeller with excellent performance and low NPSH values  
-Made entirely of CF-3M 1.4404 / AISI 316L grade stainless steel  
- Investment castings with special finishes with Ra up to 0.5 microns.  
-Complete with adjustable stainless steel support feet - Support with grease lubricated bearings.  
-Closure of the body with a clamp allows for quick and easy disassembly for inspection, cleaning and maintenance operations; The delivery port can be rotated to any position. Executions suitable for motors complying with standards: IEC 34-1, VDE 0530T1, NF C51-111, BS5000 PART 99, NEMA NG1 PART.1.

ATEX versions also available on request.



**SANITARY SELF-PRIMING PUMPS**  
**ASH series**

Self-priming sanitary centrifugal pumps in close-coupled version, with independent support.  
Approved according to 3-A Sanitary Standards. Made for different application needs, they are a top product thanks to the design features, materials and technologies used.

- They can handle liquids which release gas or create foam and with the suction pipe only partly filled.  
Main features:  
Made entirely from CF-3M 1.4404/ AISI 316L stainless steel. Investment castings and special finishes with Ra up to 0.8 microns. Electrochemical polishing treatment. Adjustable stainless steel support feet and grease lubricated bearings.  
Casing closed by means of a clamp. Easily to disassemble for inspection, cleaning and maintenance operations. Executions suitable for motors complying with standards: IEC 34-1, VDE 0530T1, NF C51-111, BS5000 PART 99, NEMA NG1 PART.1 .  
ATEX versions also available on request.



**TECHNICAL DATA CSA series**

Flow rates up to 300 m<sup>3</sup>/h  
 Head values up to 100 m  
 Maximum operating pressure 10 up to 100°C  
 Temperature range -20°+ +100°  
 High performance, with low NPSH values.

**Mechanical seals:**

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

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

EPDM  
 FPM - FKM  
 FFPM - FFKM  
 FEP

**Connections:**

CLAMP DIN 32676-C and DIN 11864



**TECHNICAL DATA ASH series**

Flow rates up to 40 m<sup>3</sup>/h  
 Head values up to 35 m (a 50 Hz)  
 Maximum operating pressure 6 bar up to 100°C  
 Temperature range -20°+ +100°

**Mechanical seals:**

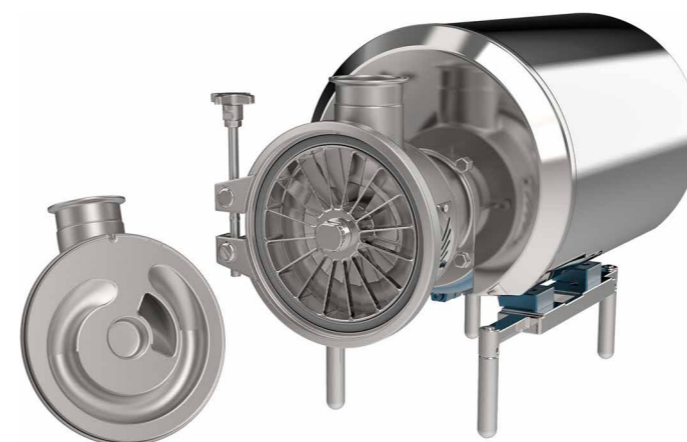
Single internal mechanical seal, protected and balanced, with seats according to EN 12756, ISO 3069.

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

EPDM  
 FPM - FKM  
 FFPM - FFKM  
 FEP

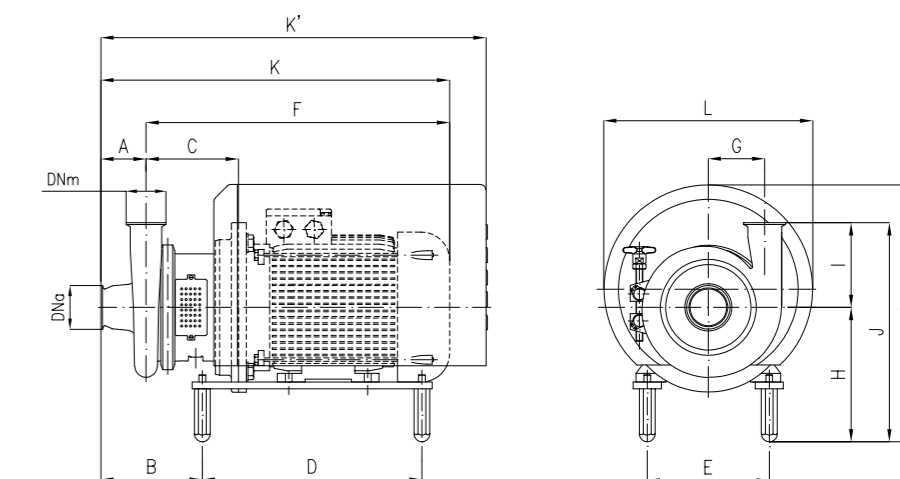
**Connections:**

CLAMP DIN 32676-C and DIN 11864



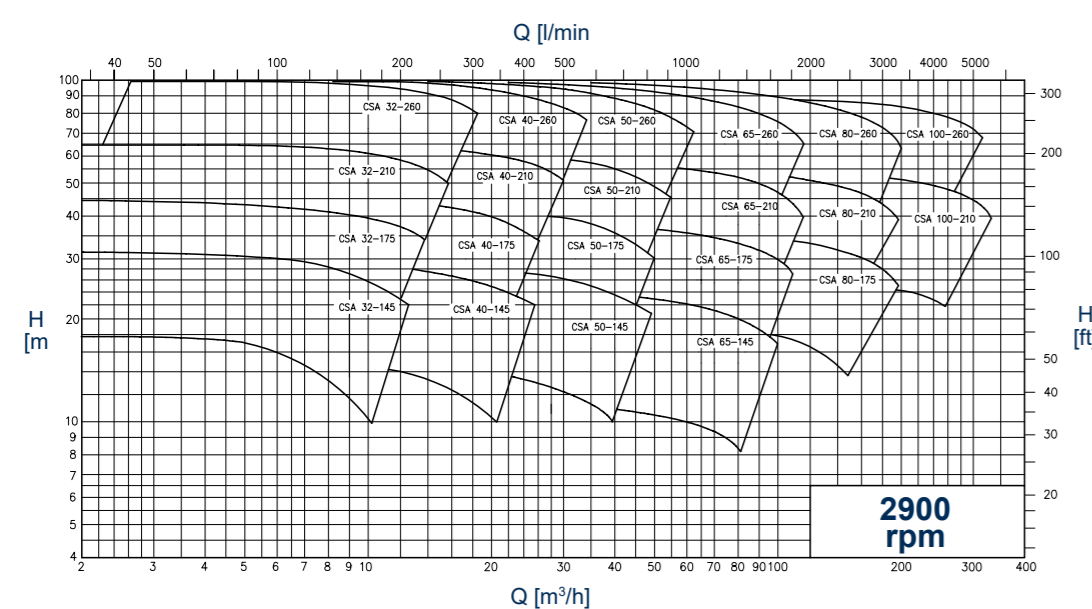
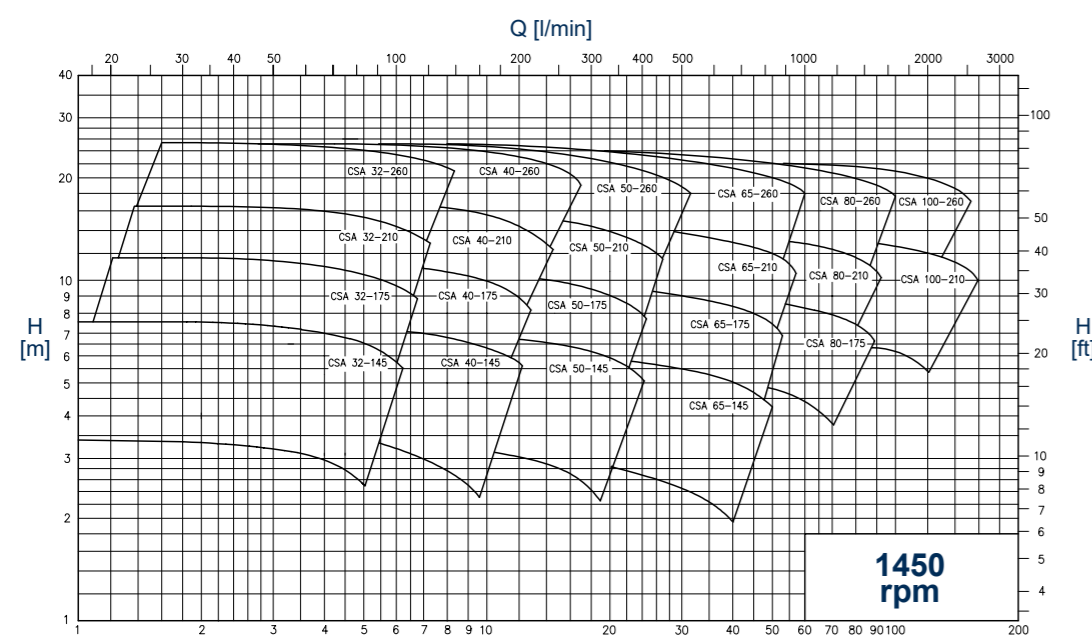
**OVERALL DIMENSIONS CSA series**

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



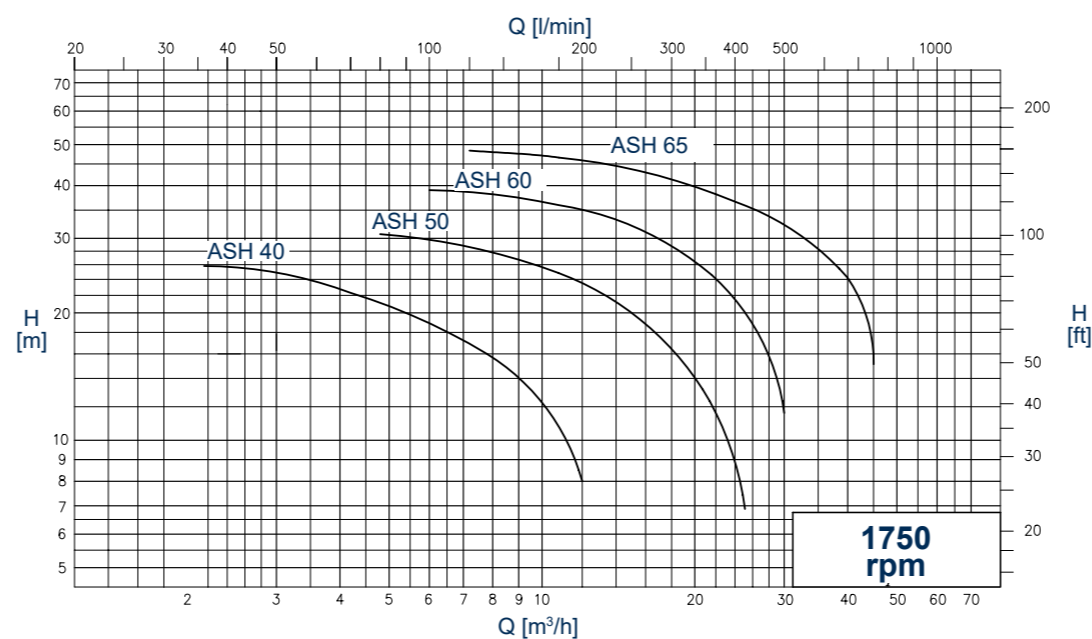
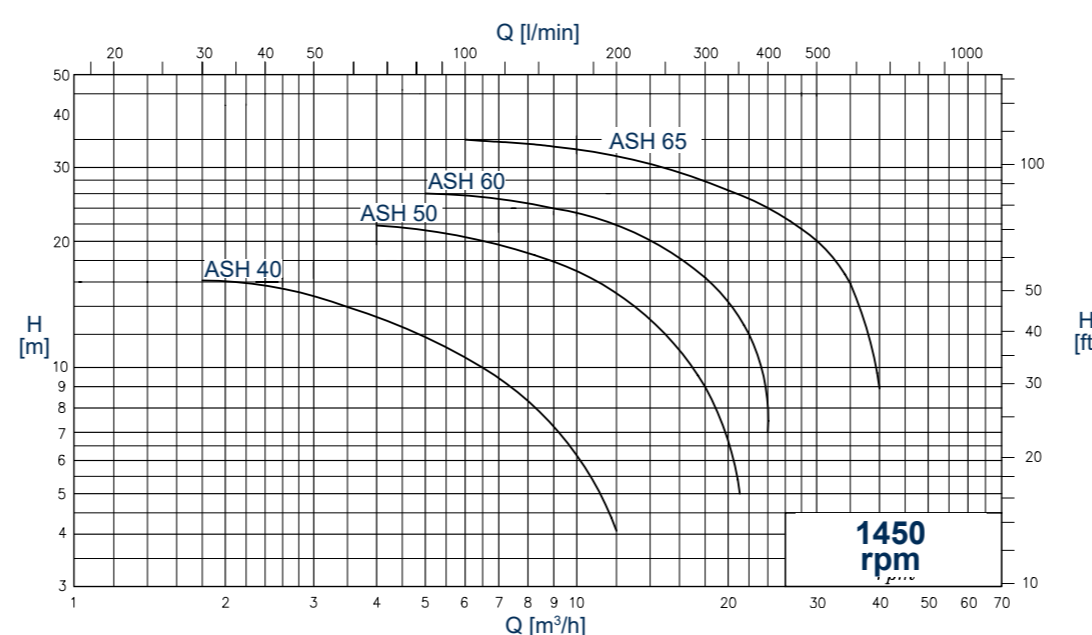
**GENERAL DIAGRAMS CSA series**

(Performance applies to H<sub>2</sub>O at 20 °C, 1013 mbar, Data not binding)



**GENERAL DIAGRAMS ASH series**

(Performance applies to H<sub>2</sub>O at 20 °C, 1013 mbar, Data not binding)



Pump type	IEC motor dimensions:	DNa	DNm	A	B	C	D	E	F	G	H	K	K'	I	J	J'	L
CSA 32-145	80	1"1/2	1"1/2	80	166	138	254	125	372	85	220	452	566	148	368	384	298
	90				172	140	419	230	499		378	394					
	100				158	139	314	160	451		240	531	637		388	445	330
	112				165	190	473	230	553		378	435					
CSA 32-175	80	1"1/2	1"1/2	80	167	139	254	125	373	95	220	453	567	148	368	384	298
	90				173	140	420	230	500		378	394					
	100				159	140	314	160	452		240	532	637		388	445	330
	112				166	190	473	230	553		378	435					
CSA 32-210	80	1"1/2	1"1/2	80	167	139	254	125	373	110	230	453	567	168	398	402	298
	90				173	140	420	240	532		408	445					
	100				159	140	314	160	452		240	532	637		388	445	330
	112				166	190	473	230	553		378	435					
CSA 32-260	132 S	2"	1"1/2	90	177	161	389	216	534	140	260	587	671	168	428	465	330
	132 M				177	161	389	216	534		255	614	680		423	477	370
	160				241	206	460	254	684		280	764	935		448	543	430
	90				207	163	254	140	444		260	534	601		428	424	298
CSA 40-145	100	2"	2"	80	193	164	314	160	476	90	260	587	671	133	428	465	330
	112				200	164	314	190	497		260	587	671		482	370	
	132 S				211	185	389	216	558		280	793	967		448	543	430
	132 M				211	185	389	216	558		280	793	967		448	543	430
CSA 40-175	80	2"	2"	80	167	139	254	125	373	90	220	453	567	133	353	384	298
	90				173	140	420	230	501		363	394					
	100				159	140	314	160	452		240	532	637		373	445	330
	112				166	190	473	230	553		363	435					
CSA 40-210	80	2"	2"	80	168	141	254	125	375	95	220	455	569	150	370	384	298
	90				175	140	422	230	502		380	394					
	100				161	142	314	160	454		240	534	639		390	445	330
	112				168	142	314	190	475		230	555	639		380	435	330
CSA 40-260	132 S	2"	2"	80	180	164	389	216	537	115	255	617	682	160	405	477	370
	132 M				180	164	389	216	537		255	617	682		405	477	370
	160				243	208	460	254	686		280	766	937		430	543	430
	90				168	141	254	125	375		235	455	569		395	399	298
CSA 40-260	100	2"	2"	80	161	140	422	140	422	145	240	534	639	160	400	445	330
	112				168	142	314	190	475		235	555	639		395	440	330
	132 S				217	163	254	140	444		260	597	681		432	440	298
	132 M				217	163	254	140	444		260	597	681		432	440	298
CSA 50-145	80	2"1/2	2"	80	195	225	460	254	785	95	280	803	978	139	452	502	430
	90				169	141	254	125	374		305	885	1094		477	637	420
	100				175	141	254	140	422		220	454	569		359	384	298
	112				161	142	314	160	454		230	502	639		369	394	298
CSA 50-175	80	2"1/2	2"	80	169	141	254	125	374	100	230	454	569	154	384	394	298
	90				169	141	254	140	422		240	534	639		394	445	330
	100				161	142	314	160	454		230	555	639		384	435	330
	112				168	142	314	190	475		230	555	639		384	435	330
CSA 50-175	132 S	2"1/2	2"	80	180	164	389	216	537	100	255	616	682	154	409	477	370
	132 M				180	164	389	216	537		255	616	682		409	477	370
	160				243	208	460	254	686		280	766	937		434	543	430
	90				169	141	254	125	374		230	454	569		384	394	298