



# Centrifugal Sanitary Pumps



## CR series

### Standard design

Centrifugal pumps incorporating a special auger type screw shaped impeller, which is ideal for the gentle handling of very delicate fluids and large soft solids in suspension.

Wetted parts in investment cast CF-3M 1.4404 / AISI 316L stainless steel, electro-chemically polished to ensure the perfect surface finish.

Separate IEC standard motor.

Stainless steel shroud and adjustable feet on request.

Flow rates range from 0 to 150 m<sup>3</sup> /h, heads up to 20 m (2 bar).

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.



CR pump



CR pump with shroud

### Applications

Delicate handling without clogging.

The CR Series has been designed for very gentle handling of sensitive media at extremely low flow velocities.

The screw shape impeller combines the properties of a centrifugal pump with the delicate characteristics of a positive displacement pump. The ability to handle high solids products in an extremely gentle way makes CR Series pumps ideal for food processing:

Fruit and vegetable handling, soups and sauces, cereals, fish transportation, food pastes, oil, wine recirculation.

### Seals:

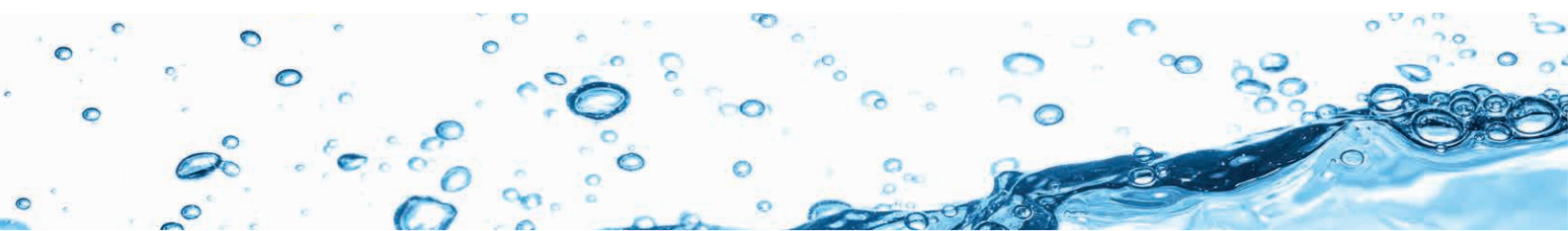
- Mechanical seals seats to EN 12756, ISO 3069 standards.
- Single internal mechanical seal
- Single external mechanical seal
- Double flushed mechanical seal

### Elastomers (FDA):

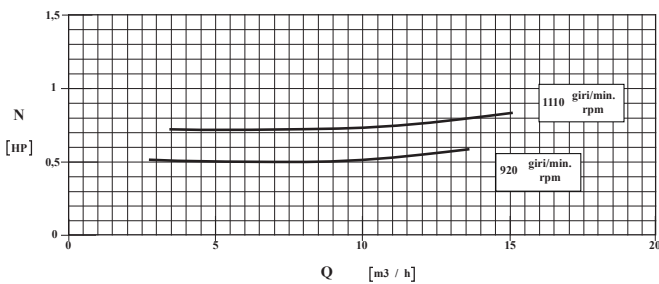
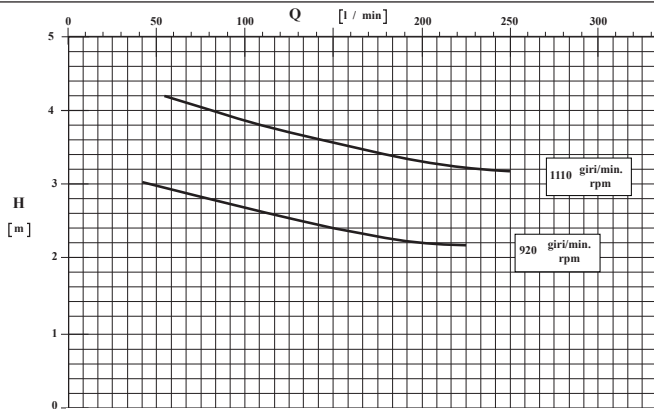
- EPDM
- Fluorocarbon (Viton)
- Silicone
- P.T.F.E. (FEP)

### Connections:

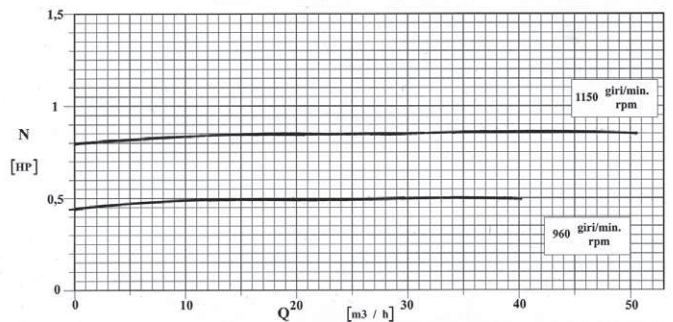
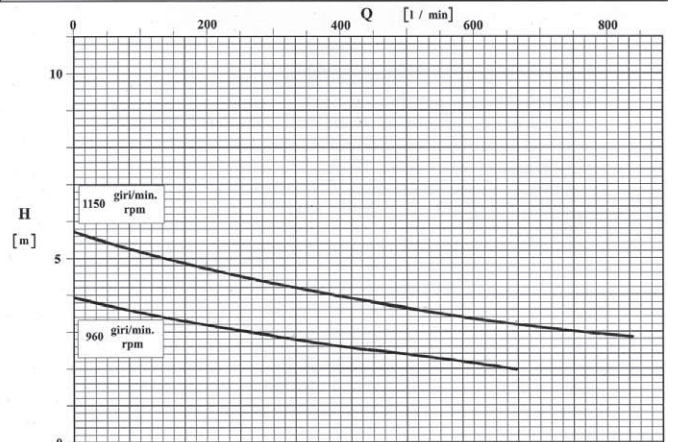
- DIN - SMS - IDF - BS / RJT - DS - CLAMP and EN 1092-1 PN16 flanges to suit most international standards.



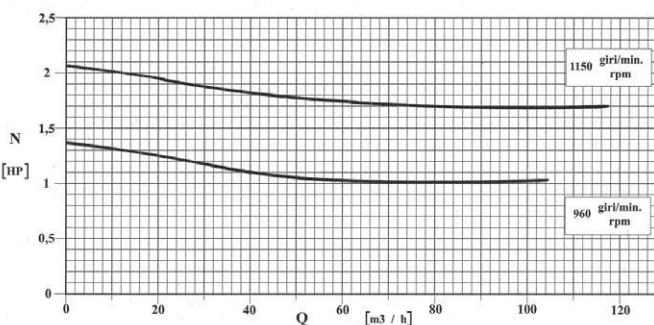
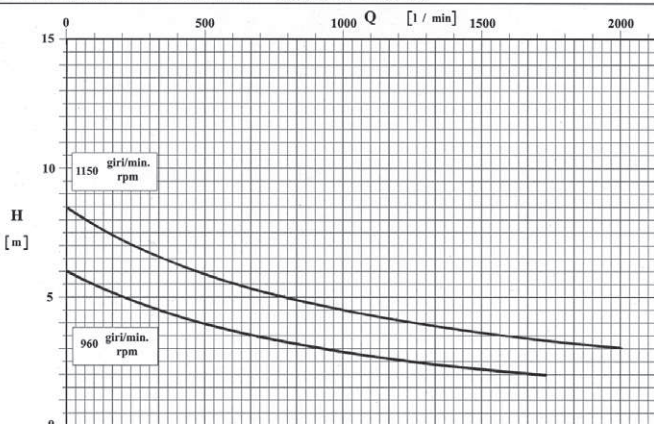
POMPA TIPO Pump type		<b>CR 65</b>			n <b>920/1110</b> giri / min r. p. m.	
GIRANTE — Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port DN <b>65</b>
APERTA	1 Elica	33 mm	156 mm	— mm	DIN 11851	Bocca mand. Discharge port DN <b>65</b>
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm <sup>3</sup> ) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm <sup>3</sup> )						



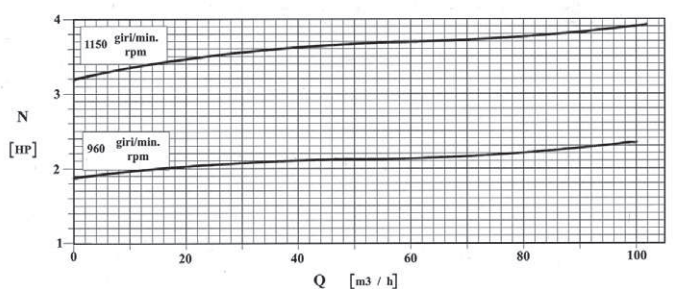
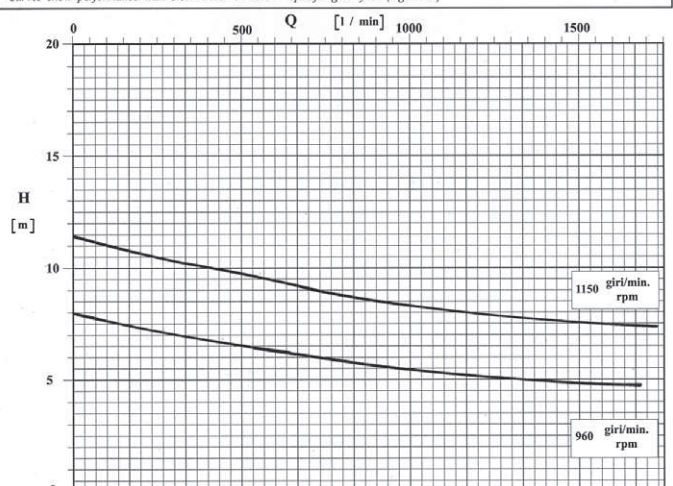
POMPA TIPO Pump type		<b>CR 80</b>			n <b>960/1150</b> giri / min r. p. m.	
GIRANTE — Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port DN <b>80</b>
APERTA	1 Elica	45 mm	178 mm	— mm	DIN 11851	Bocca mand. Discharge port DN <b>80</b>
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm <sup>3</sup> ) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm <sup>3</sup> )						



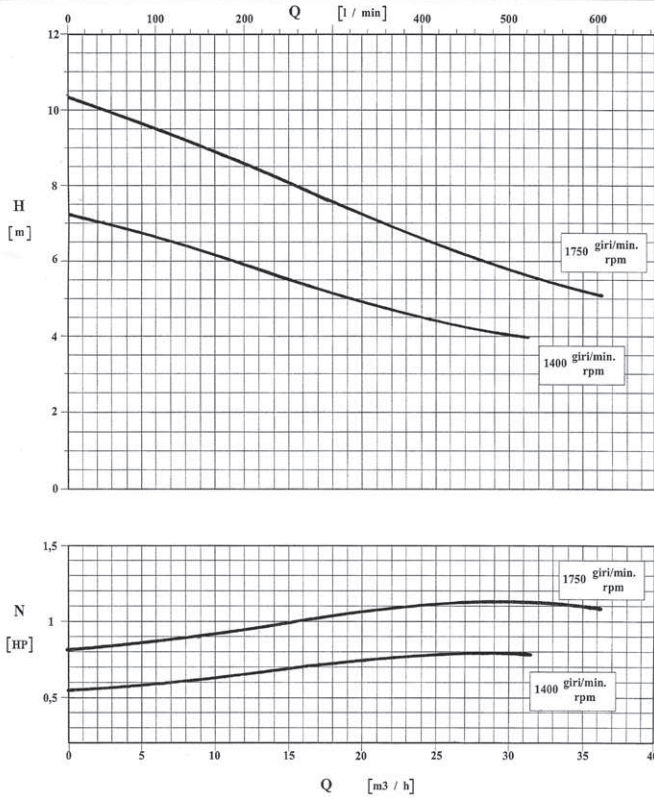
POMPA TIPO Pump type		<b>CR 100</b>			n <b>960/1150</b> giri / min r. p. m.	
GIRANTE — Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port DN <b>100</b>
APERTA	1 Elica	58 mm	210 mm	— mm	DIN 11851	Bocca mand. Discharge port DN <b>100</b>
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm <sup>3</sup> ) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm <sup>3</sup> )						



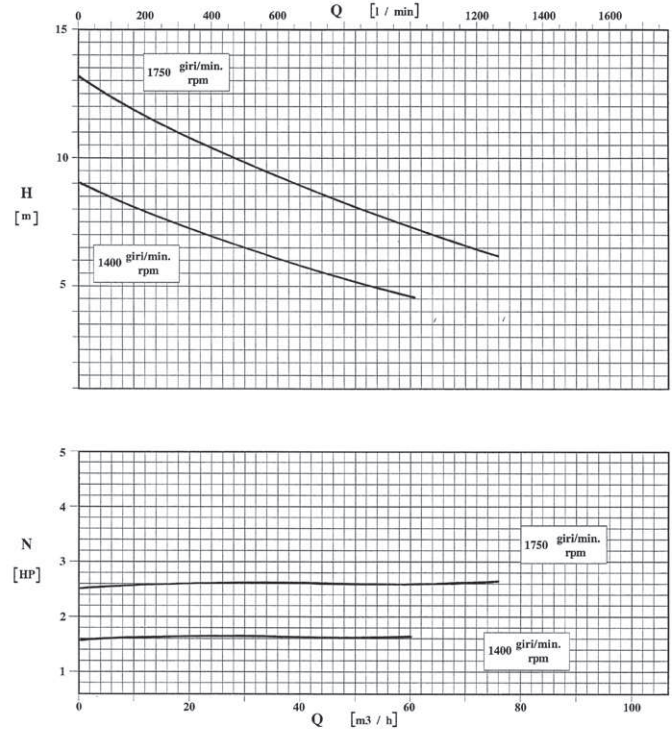
POMPA TIPO Pump type		<b>CR 125</b>			n <b>960/1150</b> giri / min r. p. m.	
GIRANTE — Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port DN <b>125</b>
APERTA	1 Elica	63 mm	260 mm	— mm	DIN 11851	Bocca mand. Discharge port DN <b>125</b>
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm <sup>3</sup> ) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm <sup>3</sup> )						



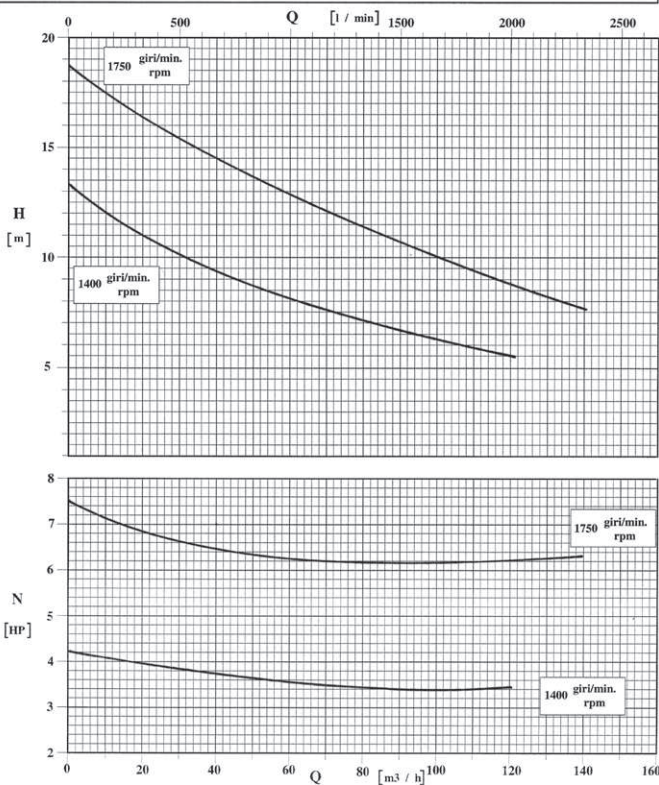
<b>POMPA TIPO</b> Pump type		<b>CR 65</b>			<b>n 1400/1750</b> giri / min r. p. m.	
GIRANTE — Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port DN 65
APERTA	1 Elica	33 mm	156 mm	— mm	DIN 11851	Bocca mand. Discharge port DN 65
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm <sup>3</sup> ) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm <sup>3</sup> )						



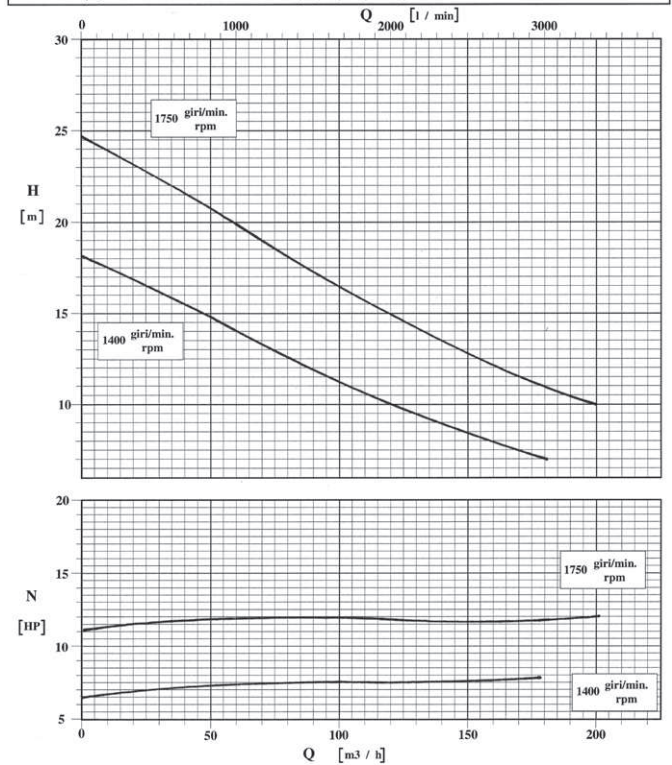
<b>POMPA TIPO</b> Pump type		<b>CR 80</b>			<b>n 1450/1750</b> giri / min r. p. m.	
GIRANTE — Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port DN 80
APERTA	1 Elica	45 mm	178 mm	— mm	DIN 11851	Bocca mand. Discharge port DN 80
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm <sup>3</sup> ) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm <sup>3</sup> )						



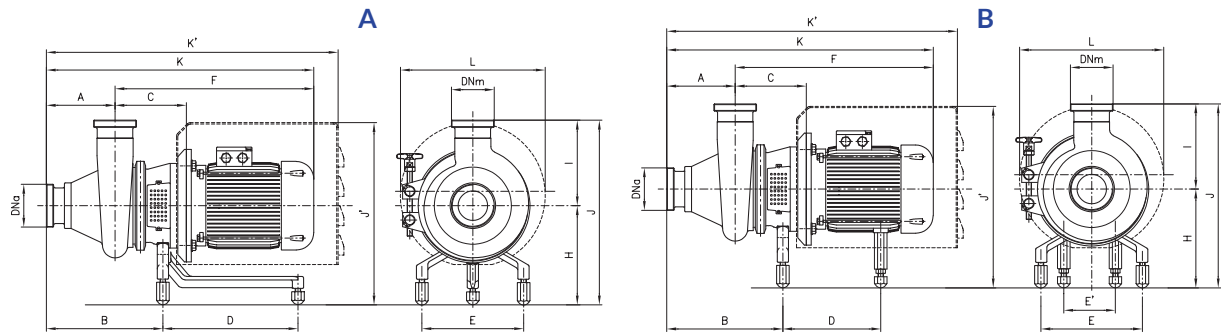
<b>POMPA TIPO</b> Pump type		<b>CR 100</b>			<b>n 1450/1750</b> giri / min r. p. m.	
GIRANTE — Impeller						
TIPO Type	N° di pale n° of vanes	Pass. sferico max. sphere	Ø max max. diameter	Ø min min. diameter	Bocche tipo Ports type	Bocca aspir. Suction port DN 100
APERTA	1 Elica	58 mm	210 mm	— mm	DIN 11851	Bocca mand. Discharge port DN 100
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm <sup>3</sup> ) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm <sup>3</sup> )						



<b>POMPA TIPO</b> Pump type		<b>CR 125</b>			<b>n 1450/1750</b> 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	1 Elica	63 mm	260 mm	— mm	DIN 11851	Bocca mand. Discharge port DN 125
CARATTERISTICHE DI FUNZIONAMENTO CON ACQUA PULITA A 20°C - PESO SPECIFICO 1 (kg/dm <sup>3</sup> ) Curves show performance with clear water at 70°F - Specific gravity 1 (kg/dm <sup>3</sup> )						



# OVERALL DIMENSIONS



A = motors from 0,55 kW to 4 kW

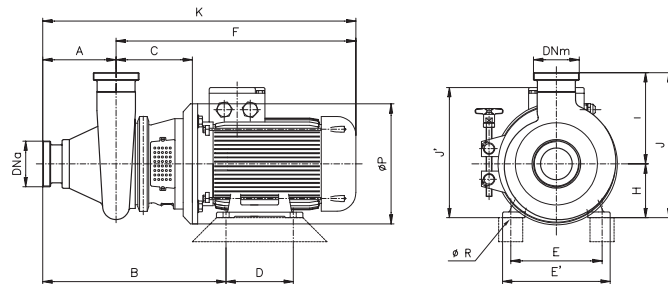
Dimensions not binding - DN = DIN 11851 male threaded connections, with standard IEC/EN motors

Pumps	1450 rpm	kW	DNa	DNm	A	B	C	D	E	E'	F	H	K	K'	I	J	J'	L
CR 65		0,55	65	65	151	257	158	230	225	-	-	392	208	543	657	190	398	374
	0,75	437										588						
	1,1	452										632						
	1,5	452										632						
CR 80	1,1	80	80	181	297	168	300	225	-	-	508	230	690	767	245	475	435	330
	1,5										508		690					
	2,2										508		690					
	3										508		690					
CR 100	2,2	100	100	205	337	202	300	225	-	-	536	238	741	824	296	534	443	330
	3										536		741					
	4																	

B = motors from 5,5 kW to 15 kW

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

Pumps	1450 rpm	kW	DNa	DNm	A	B	C	D	E	E'	F	H	K	K'	I	J	J'	L										
CR 100		5,5	100	100	205	205	325	204	283	225	-	-	-	-	-	-	-	-	-									
	7,5	326					249	408	180											576	238	784	848	294	526	460	370	
	11	326					249	408	230											727	247	932	1105	294	532	510	370	
	15	326					249	408	230											727	247	932	1105	294	532	510	370	
CR 125	5,5	125	125	232	370	230	292	225	-	-	-	-	-	-	-	-	-	-										
	7,5						270												412	180	604	238	836	900	346	584	501	430
	11						270												412	230	748	247	980	1035	346	593	510	430
	15						270												412	230	748	247	980	1035	346	593	510	430



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

Pumps	1450 rpm	kW	DNa	DNm	A	B	C	D	E	E'	F	H	K	I	J	J'	ØP	ØR
CR 65		0,55	65	65	151	151	360	158	100	125	150	392	80	543	190	270	200	200
	0,75	362					140			165	437	90	588	280		218		
	1,1	362					140			165	437	90	588	280		218		
	1,5	362					140			165	437	90	588	280		218		
CR 80	1,1	80	80	181	181	168	140	125	140	165	452	90	632	245	335	218	250	12
	1,5							160	196	481	100	663	345		235			
	2,2							160	196	481	100	663	345		235			
	3							160	196	481	100	663	345		235			
CR 100	2,2	100	100	205	205	202	140	190	240	515	112	720	294	406	331	300	12	
	3						178	216	256	576	132	781		426	299			
	4						178	216	256	576	132	781		426	299			
	5,5						178	216	256	576	132	781		426	299			
CR 125	5,5	125	125	232	232	230	140	216	256	604	132	836	346	478	404	350	15	
	7,5						178	254	300	748	160	980		506	432			
	11						178	254	300	748	160	980		506	432			
	15						178	254	300	748	160	980		506	432			