

Sigla di identificazione
Identification mark

Girante chiusa e aperta
Closed and open impeller

1	2	3	4	5	6	7	8	9
HDM	50 20	A	4	A75	C	181	3	/A

1 Esecuzione pompa

HDM-HGM	Pompa monoblocco con flange forate secondo EN 1092-1
HDA-HGA	Pompa monoblocco con attacchi DIN 11851
HDS-HGS	Pompa monoblocco con attacchi fuori standard

1 Pump arrangement

HDM-HGM	Close coupled pump with flange EN 1092-1
HDA-HGA	Close coupled pump with DIN 11851 connection
HDS-HGS	Close coupled pump with not standard connection

2 Grandezza pompa

50-20	
50	Diametro bocca di mandata (mm)
20	Diametro Nominale Girante (cm)

2 Pump size

50-20	
50	Discharge port diameter (mm)
20	Nominal impeller diameter (cm)

3 Riduzione girante

A	Diametro massimo
B	1° riduzione
C	2° riduzione
AR	Riduzione intermedia (tra A e B)

3 Impeller trim

A	Maximum diameter
B	1° trim
C	2° trim
AR	Intermediate trim (between A and B)

4 Polarità motore

2	Motore elettrico a 2 poli
4	Motore elettrico a 4 poli
6	Motore elettrico a 6 poli
8	Motore elettrico a 8 poli

4 Motor polarity

2	2 poles electric motor
4	4 poles electric motor
6	6 poles electric motor
8	8 poles electric motor

5 Potenza motore elettrico

A	0,25-0,75 kW
B	1,1-9,2 kW
C	11-90 kW
D	110-400 kW

5 Electric motor power

A	0.25-0.75 kW
B	1.1-9.2 kW
C	11-90 kW
D	110-400 kW

A	kW	0,25	0,37	0,55	0,75
	Cod	A25	A37	A55	A75

B	kW	1,1	1,5	2,2	3,0	4,0	5,5	7,5	9,2
	Cod	B11	B15	B22	B30	B40	B55	B75	B92

C	kW	11	15	18,5	22	30	37	45	55	75	90
	Cod	C11	C15	C18	C22	C30	C37	C45	C55	C75	C90

D	kW	110	132	160	200	225	250	280	315	355	400
	Cod	D11	D13	D16	D20	D22	D25	D28	D31	D35	D40

6 Sistema di tenuta

Esecuzione M	Tenuta meccanica singola
Esecuzione B	Tenuta a baderna senza flussaggio
Esecuzione S	Tenuta a baderna con flussaggio (solo in ingresso)
Esecuzione H	Camera di riscaldamento o raffreddamento
Esecuzione C	Tenuta meccanica doppia contrapposta
Esecuzione L	Tenuta meccanica doppia in tandem
Esecuzione A	Tenuta meccanica singola con bussola di fondo

6 Sealing system

M Execution	Single mechanical seal
B Execution	Gland packing without flushing
S Execution	Gland packing with flushing (inlet only)
H Execution	Heating or cooling chamber
C Execution	Double back to back mechanical seal
L Execution	Double tandem mechanical seal
A Execution	Single mechanical seal with throttle bushing

7 Codice tenuta meccanica primaria

Nota
Per esecuzioni B e S = 000

7 Primary mechanical seal Code

Nota
For B and S executions = 000

8 Codice componenti principali della pompa

Per maggiori dettagli vedere la tabella T-2177 Codifica materiali

8 Identification code for pump's parts

For more details see table T-2177 Materials code

9 Indice di revisione idraulica

9 Hydraulic release index

Dati tecnici
Technical features
Girante chiusa e aperta
Closed and open impeller

		Grandezze Size											
Descrizione Description	Unità di misura Unity of measurement	25-16 ^(e)	25-19 ^(e)	32-16	40-16	50-16	32-20 ^(e)	40-20 ^(e)	50-20	65-16	80-16	65-20	80-20
Gruppo pompa Pump group		HD1					HD2				HD3		
Corpo Casing													
Pressione di Design Design pressure	mm	6	6	6	6	6	8	8	8	6	6	8	8
Foro drenaggio Casing drain	A richiesta On request												
Girante Impeller													
Numero di pale Blade number	mm	5	5	5	5	6	5	5	5	6	6	6	6
Luce di uscita girante Impeller width	mm	6	6	6	8,5	13,5	6	7	11	19	27	16	21
Momento di inerzia J ^(a) Moment of inertia J ^(a)	kgm ²	0,01	0,01	0,01	0,01	0,01	0,02	0,02	0,02	0,01	0,01	0,02	0,02
Cassa stoppa Seal chumber													
Diametro tenuta meccanica Mechanical seal diameter	mm	24					33				33		
Camera di raffreddamento Cooling jacket													
Pressione massima Maximum pressure	bar	3					3				3		
Pressione di prova Maximum hydrostatic pressure	bar	4,5					4,5				4,5		
Connessioni Connections holes		G.3/8					G.3/8				G.3/8		
Potenza max Max Power													
Potenza max 2.900 rpm Max Power 2.900 rpm	kW	11					18,5				22		
Potenza max 1.450 rpm Max Power 1.450 rpm	kW	7,5					7,5				11		
Potenza max 960 rpm Max Power 960 rpm	kW	5					5				7,5		

(a) Dividi per 1.000 per ottenere il momento di inerzia J in kgm²
Divide by 1.000 to obtain the moment of inertia J in kgm²

(c) Fare riferimento alla serie RS
Refer to the RS model

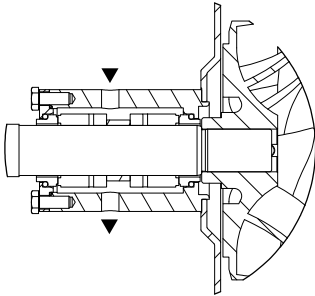
(b) Disponibile solo per serie HD
Available only for HD model

Per condizioni di lavoro diverse, consultate il nostro servizio tecnico commerciale.
Please contact SR pumps representative for specific working condition.

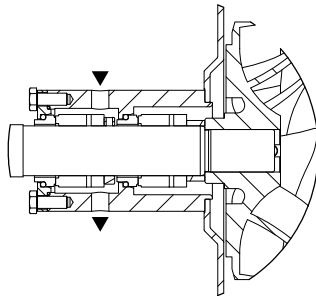
Dati tecnici Technical features

Girante chiusa e aperta
Closed and open impeller

Esecuzione C
C execution



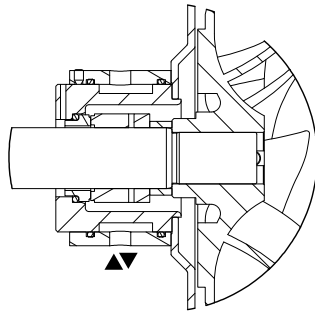
Esecuzione L
L execution



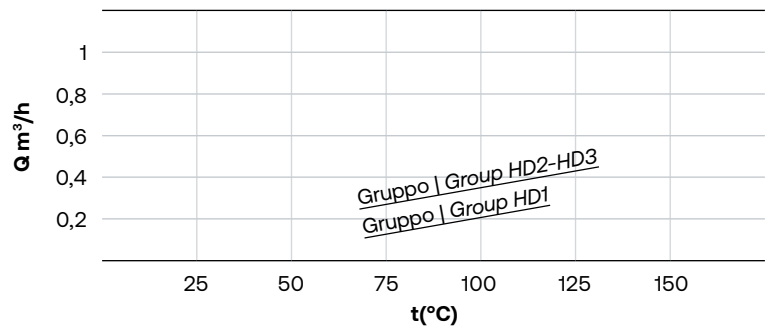
Flussaggio tenuta meccanica doppia esecuzione C - L
Double mechanical seal flushing C - L exec.

Gruppo Group	Dia. ten. mecc. Mech. seal dia. (mm)	Portata flusso Flushing capacity (l/min)		P di flusso Flushing pressure (bar)	
		2900 rpm	1450 rpm	C	L
HD1	33	0,8	0,4	0,5 > p mandata 0,5 > discharge p	0,1 < P < 0,2
HD2-HD3	33	1,4	0,7		

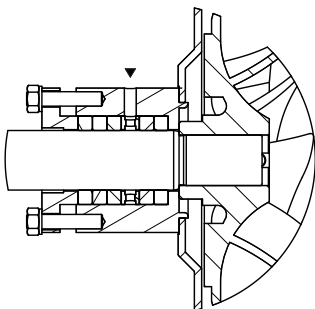
Esecuzione H
H execution



Flussaggio camera di raffreddamento esecuzione H
Cooling chamber flushing H execution



Esecuzione S
S execution



Flussaggio tenuta meccanica doppia esecuzione S
Double mechanical seal flushing S exec.

Gruppo Group	Dia. ten. mecc. Mech. seal dia. (mm)	Portata flusso Flushing capacity (l/min)		P di flusso Flushing pressure (bar)	
		2900 rpm	1450 rpm	S	
HD1	33	0,8	0,4	0,5 > p mandata 0,5 > discharge p	
HD2-HD3	33	1,4	0,7		

Dati tecnici
Technical features
Girante chiusa e aperta
Closed and open impeller
**Limiti di pressione
e di temperatura**
**Pressure
and Temperature Limits**

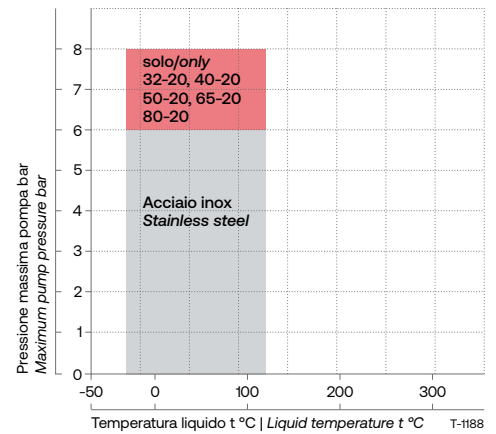
In caso di forti rischi di corrosione i limiti possono anche essere inferiori a quelli indicati.

When the medium is very aggressive, limits can be even lower than the indicated values.

Per condizioni di lavoro diverse, consultate il nostro Servizio tecnico commerciale.

Please contact SR pumps representative for specific working condition.

Materiali di costruzione | Construction Materials



Descrizione	Description	Codice materiale pompa Pumps material code
		3
Corpo	Casing	CF8M (AISI 316)
Coperchio del corpo	Casing cover	CF8M (AISI 316)
Girante	Impeller	CF8M (AISI 316)
Albero	Shaft	AISI 316L
Piede sostegno	Support foot	S 235 JR
Lanterna	Lantern bracket	GJL200/GJL250/ S 235 JR
Coperchio tenuta singola	Single mechanical seal cover	AISI 316L
Coperchio tenuta doppia	Double mechanical seal cover	AISI 316L
Ogiva girante	Impeller hub	AISI 316L
Piastra usura	Wear plate	AISI 316L

Dispositivi di tenuta e raffreddamento (o riscaldamento)
Sealing and cooling (or heating) device

Girante chiusa e aperta
Closed and open impeller

Tenuta singola (con e senza flussaggio)
Single seal (with or without flushing)



Tenuta contrapposta
Back to back mechanical seal



Tenuta baderna (con e senza flussaggio)
Packing gland (with or without flushing)



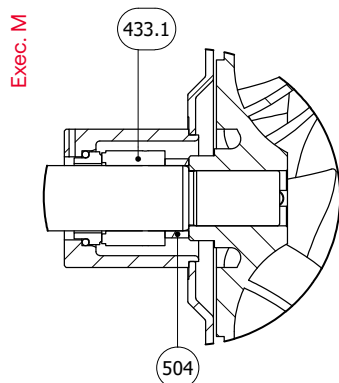
Tenuta in tandem
Tandem mechanical seal



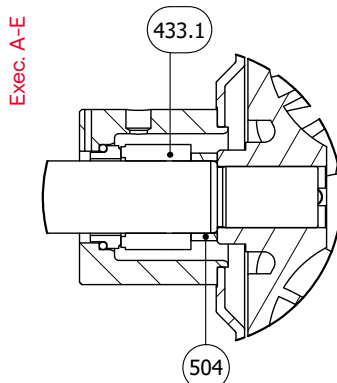
Dispositivi di tenuta e raffreddamento (o riscaldamento)
Sealing and cooling (or heating) device

Girante chiusa e aperta
Closed and open impeller

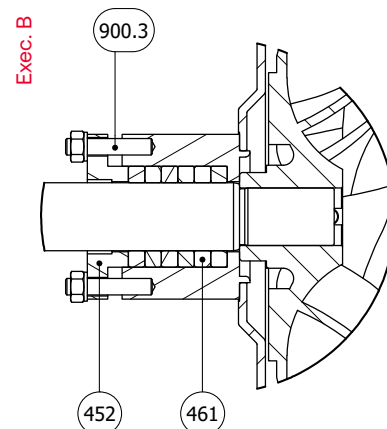
Tenuta meccanica singola
Single mechanical seal



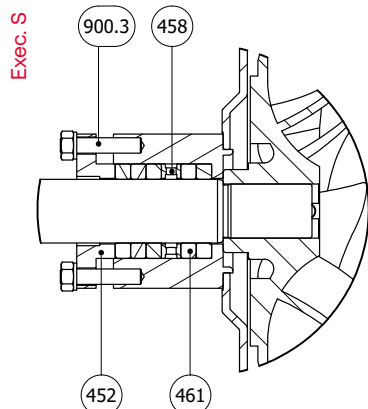
Singola flussata (con/senza bussola di fondo)
Single with flushing (with/without throttle-bush)



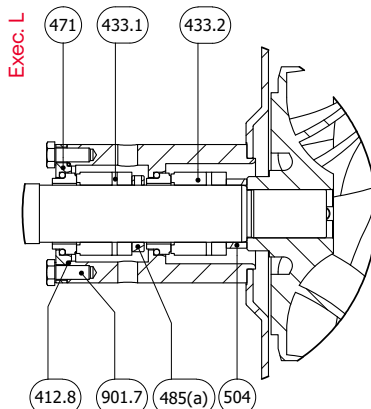
Tenuta a baderna
Packing gland



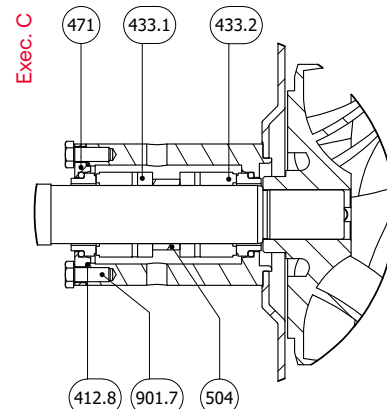
Tenuta a baderna flussata
Packing gland with flushing



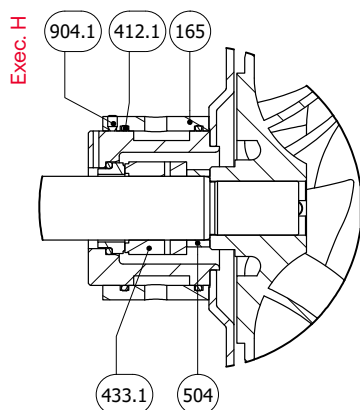
Tenuta meccanica doppia in tandem
Double tandem mechanical seal



Tenuta meccanica doppia contrapposta
Double back to back mechanical seal



Camera riscaldamento/raffreddamento
Cooling/heating jacket

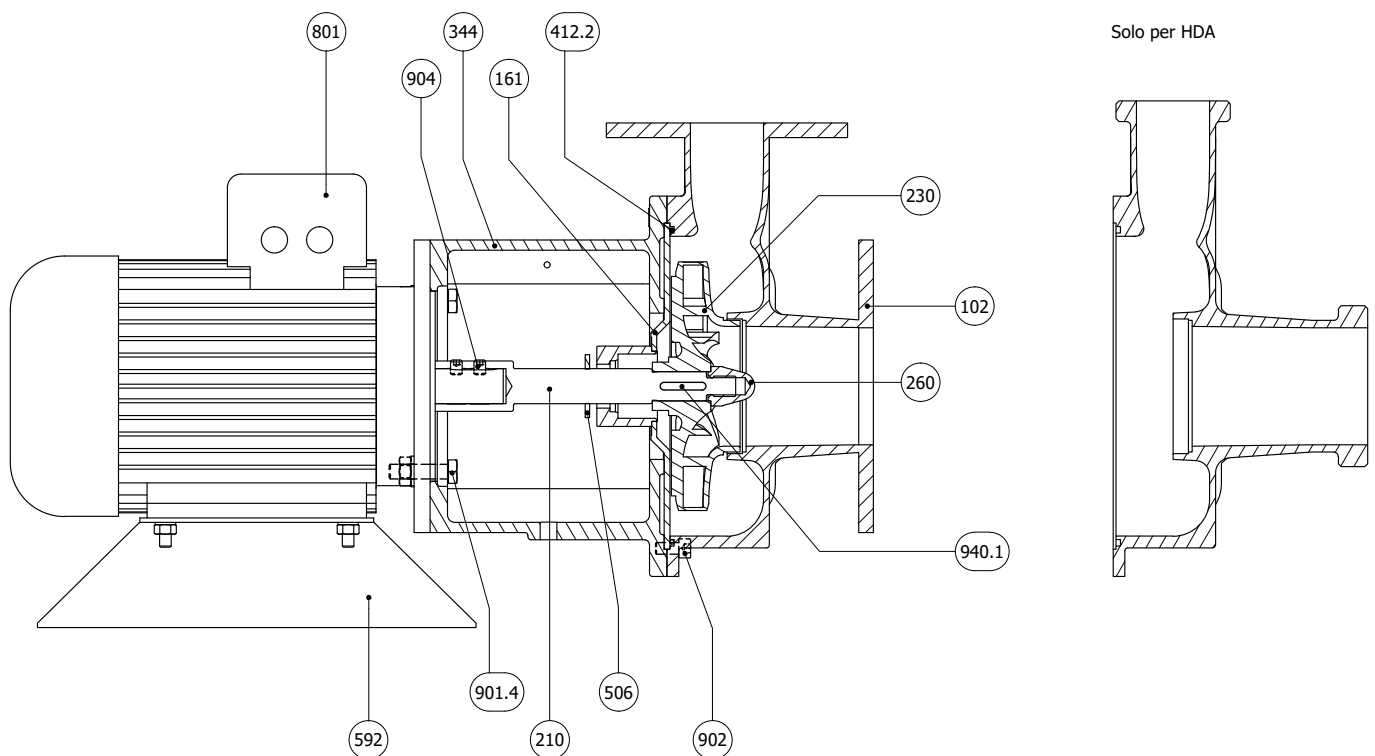


N.	Descrizione	Description
165	Coperchio camera di raffreddamento	Cooling chamber cover
452	Premitreccia	Packing gland
458	Anello idraulico	Lantern ring
461	Baderna	Packing ring
471	Coperchio tenuta meccanica	Seal chamber cover
485(a)	Anello arresto tenuta meccanica	Abutment ring
504	Distanziale	Spacer
412.1	O-ring	O-ring
412.8	O-ring	O-ring
433.1	Tenuta meccanica L.C.	Mechanical seal D.S.
433.2	Tenuta meccanica L.O.C.	Mechanical seal N.D.S.
900.3	Prigioniero con dado	Stud with nut
901.7	Vite T.E.	Hex head screw
904.1	Grano	Locking screw

Sezione con nomenclatura monoblocco
Close coupled sectional view and nomenclature

Girante chiusa
Closed impeller

Grandezze | Size: 25-16, 25-19, 32-16, 32-20, 40-16, 40-20, 50-16, 50-20



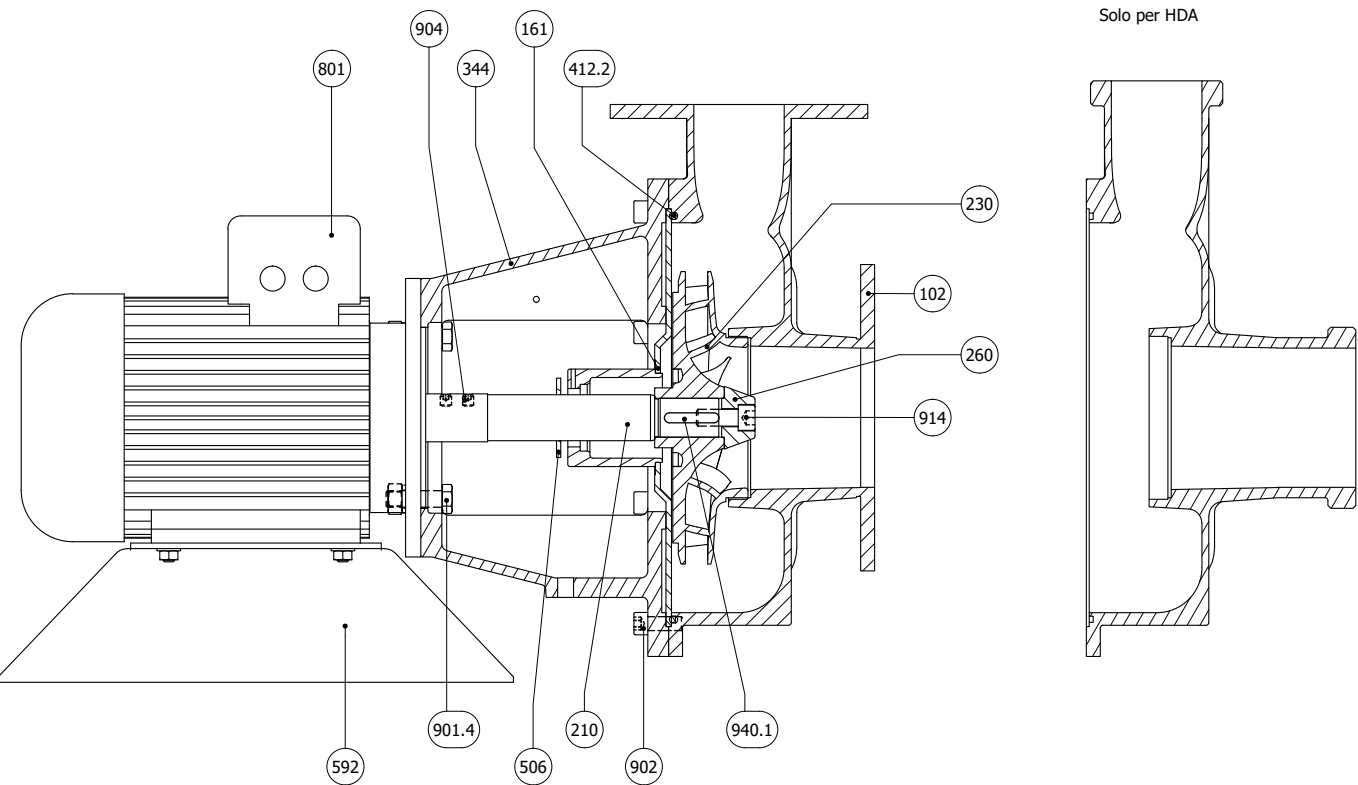
N.	Descrizione	Description
102	Corpo	Casing
161	Coperchio del corpo	Casing cover
210	Albero	Shaft
230	Girante	Impeller
260	Ogiva girante	Impeller hub
344	Lanterna motore	Lantern bracket
412.2	O.Ring	O.Ring

N.	Descrizione	Description
506	Anello paraspruzzi	Deflector
592	Piede motore	Electric motor foot
801	Motore elettrico	Electric motor
901.4	Vite T.E. con dado	Hex head screw with nut
902	Vite T.C.E.I.	Screw
904	Grano	Locking screw
940.1	Linguetta girante	Impeller key

Sezione con nomenclatura monoblocco
Close coupled sectional view and nomenclature

Girante chiusa
Closed impeller

Grandezze | Size: 65-16, 65-20, 80-16, 80-20

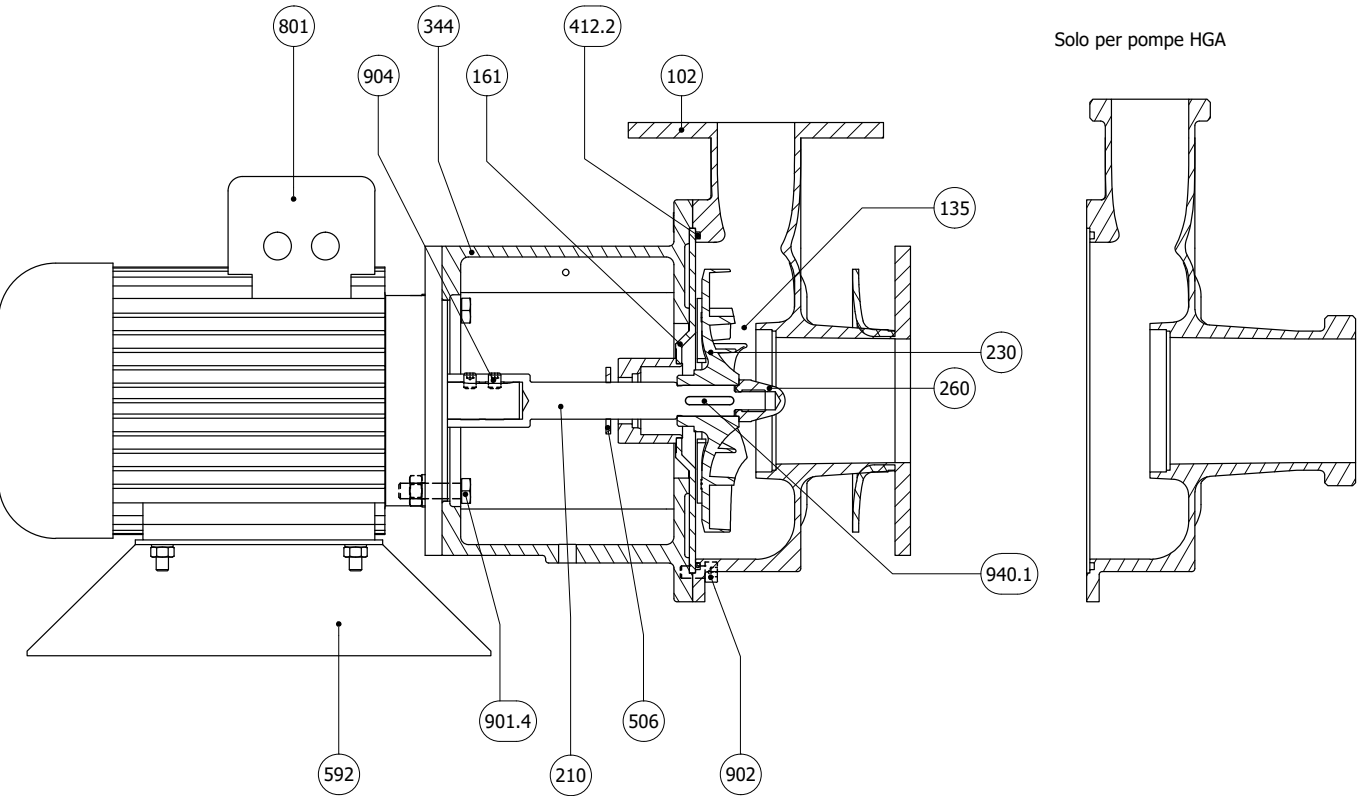


Solo per HDA

N.	Descrizione	Description
102	Corpo	Casing
161	Coperchio del corpo	Casing cover
210	Albero	Shaft
230	Girante	Impeller
260	Ogiva girante	Impeller hub
344	Lanterna motore	Lantern bracket
412.2	O.Ring	O.Ring
506	Anello paraspruzzi	Deflector

N.	Descrizione	Description
592	Piede motore	Electric motor foot
801	Motore elettrico	Electric motor
901.4	Vite T.E. con dado	Hex head screw with nut
902	Vite T.C.E.I.	Screw
904	Grano	Locking screw
914	Vite Ogivale	Screw
940.1	Linguetta girante	Impeller key

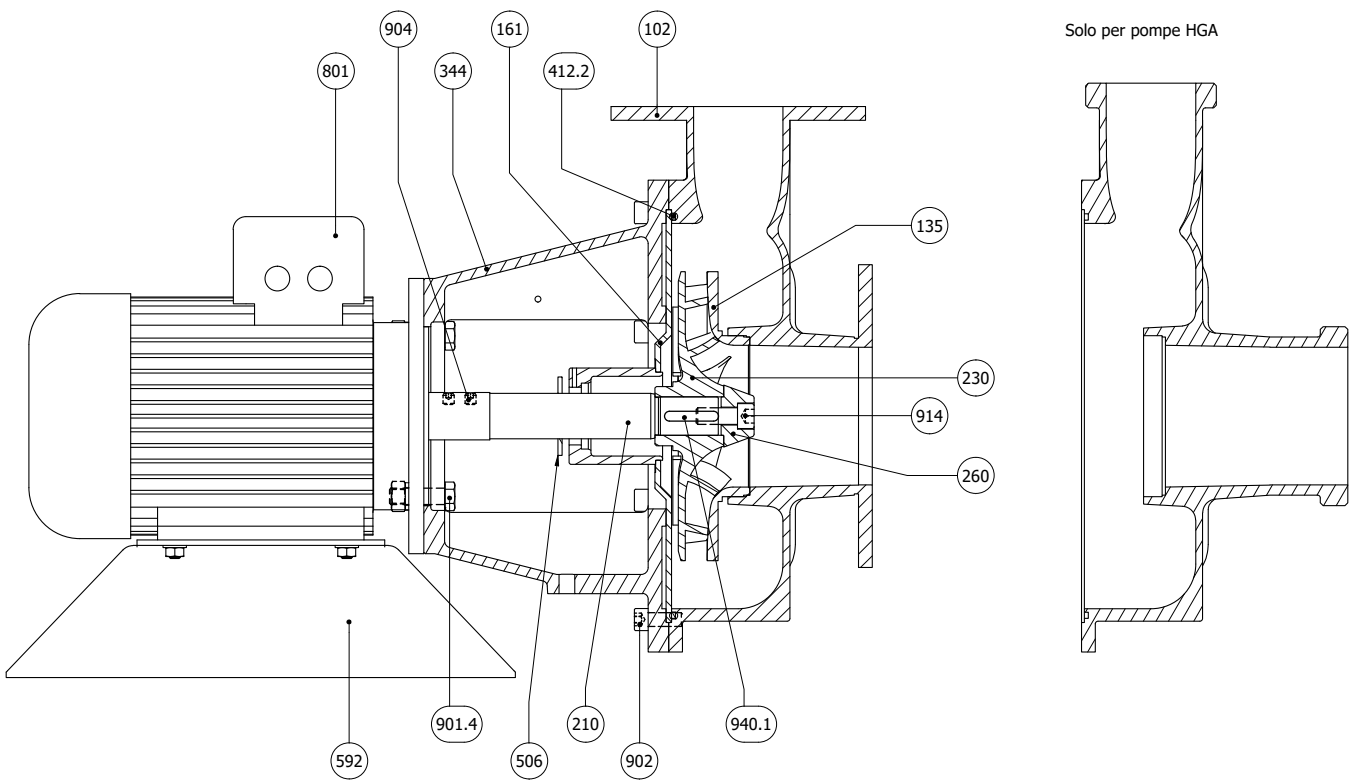
Grandezze | Size: 32-16, 32-20, 40-16, 40-20, 50-16, 50-20



N.	Descrizione	Description
102	Corpo	Casing
135	Piastra d'usura	Wear plate
161	Coperchio del corpo	Casing cover
210	Albero	Shaft
230	Girante	Impeller
260	Ogiva girante	Impeller hub
344	Lanterna motore	Lantern bracket
412.2	O.Ring	O.Ring

N.	Descrizione	Description
506	Anello paraspruzzi	Deflector
592	Piede motore	Electric motor foot
801	Motore elettrico	Electric motor
901.4	Vite T.E. con dado	Hex head screw with nut
902	Vite T.C.E.I.	Screw
904	Grano	Locking screw
940.1	Linguetta girante	Impeller key

Grandezze | Size: 65-16, 65-20, 80-16, 80-20



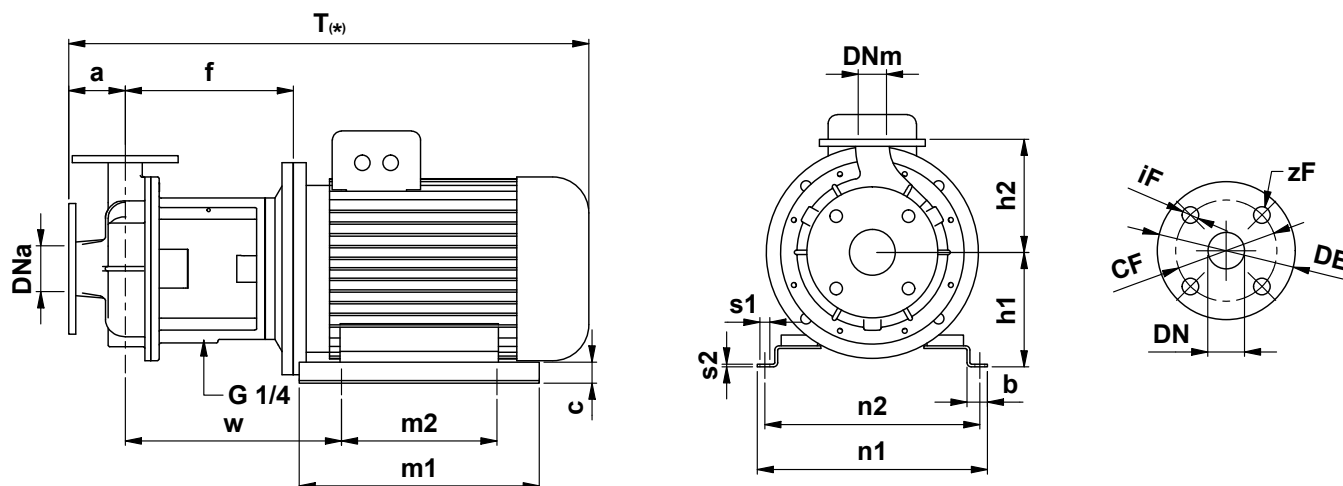
N.	Descrizione	Description
102	Corpo	Casing
135	Piastra d'usura	Wear plate
161	Coperchio del corpo	Casing cover
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940.1	Linguetta girante	Impeller key

Ingombrbi monoblocco
Close coupled pump overall dimensions



Girante chiusa e aperta
Closed and open impeller



Dimensioni Flange Dimensions Flange EN1092-1

DNa-DNm	25	32	40	50	65	80	100	125
CF	85	100	110	125	145	160	180	210
CE	115	140	150	165	185	200	220	250
iF	14	18	18	18	18	18	18	18
zF	4	4	4	4	4	8	8	8

Accoppiamento potenza – polarità/grandezza motore Power – polarity/motor size coupling

Poli	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW
2	71	80	80	90S	90L	100L	112M	132S	132S	132M	160M	160M	160L	180M
	0,55	0,75	1,1	1,5	2,2	3	4	5,5	7,5	9,2	11	15	18,5	22
4	80	80	90S	90L	100L	100L	112M	132S	132M	132M	160M	160L	180M	180L
	0,55	0,75	1,1	1,5	2,2	3	4	5,5	7,5	9,2	11	15	18,5	22
6	80	90S	90L	100L	112M	132S	132M	132M	160M	160L	180L	-	-	-
	0,55	0,75	1,1	1,5	2,2	3	4	5,5	7,5	11	15	-	-	-

Pompa tipo Pump size	Grandezza motore Motor size	Dimensioni Dimensions (mm)																Peso Weight (kg) ^(*)
		Dna	Dnm	a	f	h1	h2	b	c	m1	m2	n1	n2	s1	s2	w	T _(*)	
25-16 25-19	80	40	25	61	187	155	157	23	75	300	220	203	183	10	3	177	490	29
	90	40	25	61	187	165	157	23	75	300	220	218	198	10	3	196	535	33
	100	40	25	61	207	155	157	25	55	280	200	240	218	12	3	240	593	47
	112	40	25	61	207	167	157	25	55	280	200	270	248	12	3	247	597	54
32-16	80	50	32	80	194	155	160	23	75	300	220	203	183	10	3	184	516	30
	90	50	32	80	194	165	160	23	75	300	220	218	198	10	3	203	561	34
	100	50	32	80	214	155	160	25	55	280	200	240	218	12	3	247	619	48
	112	50	32	80	214	167	160	25	55	280	200	270	248	12	3	254	623	55
	132	50	32	80	234	162	160	29	30	340	220	326	304	14	4	302	732	78

Quote e pesi possono variare senza preavviso
Dimensions and weights can change without prior notice

(*) Lunghezza e peso possono variare in funzione della marca del motore
(*) Length and weight may vary, it depends by the motor brand

Ingombri monoblocco
Close coupled pump overall dimensions



Girante chiusa e aperta
Closed and open impeller

Pompa tipo Pump size	Grandezza motore Motor size	Dimensioni Dimensions (mm)																Peso Weight (kg) ^(*)
		Dna	Dnm	a	f	h1	h2	b	c	m1	m2	n1	n2	s1	s2	w	T _(°)	
32-20	80	50	32	80	194	155	177	23	3	300	220	203	183	10	0	184	516	30
	90	50	32	80	194	165	177	23	3	300	220	218	198	10	0	202,5	561	34
	100	50	32	80	214	155	177	25	3	280	200	240	218	12	0	247	619	48
	112	50	32	80	214	167	177	25	3	280	200	270	248	12	0	254	623	55
	132	50	32	80	234	162	177	29	4	340	220	326	304	14	0	302	732	78
40-16	80	65	40	80	198	155	160	23	75	300	220	203	183	10	3	188	520	31
	90	65	40	80	198	165	160	23	75	300	220	218	198	10	3	207	565	35
	100	65	40	80	218	155	160	25	55	280	200	240	218	12	3	251	623	49
	112	65	40	80	218	167	160	25	55	280	200	270	248	12	3	258	627	56
	132	65	40	80	238	162	160	29	30	340	220	326	304	14	4	287	736	79
40-20	90	65	40	100	196	165	180	23	3	300	220	218	198	10	0	204,5	583	31
	100	65	40	100	216	155	180	25	3	280	200	240	218	12	0	249	641	35
	112	65	40	100	216	167	180	25	3	280	200	270	248	12	0	256	645	49
	132	65	40	100	236	162	180	29	4	340	220	326	304	14	0	304	754	56
50-16	80	80	50	100	203	155	180	23	75	300	220	203	183	10	3	193	545	33
	90	80	50	100	203	165	180	23	75	300	220	218	198	10	3	212	590	37
	100	80	50	100	223	155	180	25	55	280	200	240	218	12	3	256	648	50
	112	80	50	100	223	167	180	25	55	280	200	270	248	12	3	263	652	57
	132	80	50	100	243	162	180	29	30	340	220	326	304	14	4	311	761	81
50-20	80	80	50	100	221	155	200	23	75	300	220	203	183	10	3	211	563	39
	90	80	50	100	221	165	200	23	75	300	220	218	198	10	3	230	608	43
	100	80	50	100	241	155	200	25	55	280	200	240	218	12	3	274	666	57
	112	80	50	100	241	167	200	25	55	280	200	270	248	12	3	281	670	64
	132	80	50	100	261	162	200	29	30	340	220	326	304	14	4	329	779	88
	160	80	50	100	291	210	200	45	50	500	350	404	364	15	5	351	932	180
65-16	80	100	65	100	230	155	200	23	75	300	220	203	183	10	3	220	572	40
	90	100	65	100	230	165	200	23	75	300	220	218	198	10	3	238	617	44
	100	100	65	100	250	155	200	25	55	280	200	240	218	12	3	282	675	58
	112	100	65	100	250	167	200	25	55	280	200	270	248	12	3	290	679	65
	132	100	65	100	270	162	200	29	30	340	220	326	304	14	4	338	788	89
	160	100	65	100	300	210	200	45	50	500	350	404	364	15	5	360	941	181
65-20	90	100	65	97	229	190	225	31	100	370	220	234	207	12	4	237	613	50
	100	100	65	97	249	200	225	31	100	370	220	254	227	12	4	272	671	64
	112	100	65	97	249	212	225	31	100	370	220	284	257	12	4	279	675	71
	132	100	65	97	269	212	225	31	80	400	300	325	298	12	4	297	784	94
	160	100	65	97	299	210	225	45	50	500	350	404	364	15	5	359	937	187
80-16	90	125	80	125	236	190	225	31	100	370	220	234	207	12	4	245	648	51
	100	125	80	125	256	200	225	31	100	370	220	254	227	12	4	279	706	65
	112	125	80	125	256	212	225	31	100	370	220	284	257	12	4	286	710	72
	132	125	80	125	276	212	225	31	80	400	300	325	298	12	4	304	819	95
	160	125	80	125	306	210	225	45	50	500	350	404	364	15	5	366	972	188
80-20	90	125	80	125	236	190	250	31	100	370	220	234	207	12	4	245	648	52
	100	125	80	125	256	200	250	31	100	370	220	254	227	12	4	279	706	66
	112	125	80	125	256	212	250	31	100	370	220	284	257	12	4	286	710	73
	132	125	80	125	276	212	250	31	80	400	300	325	298	12	4	304	819	97
	160	125	80	125	306	210	250	45	50	500	350	404	364	15	5	366	972	189

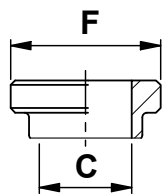
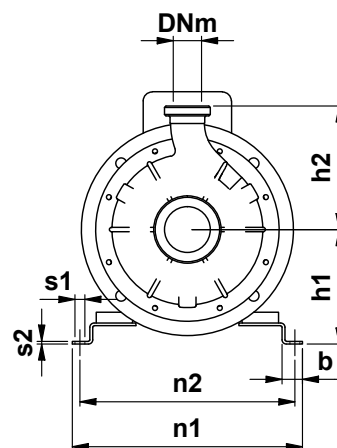
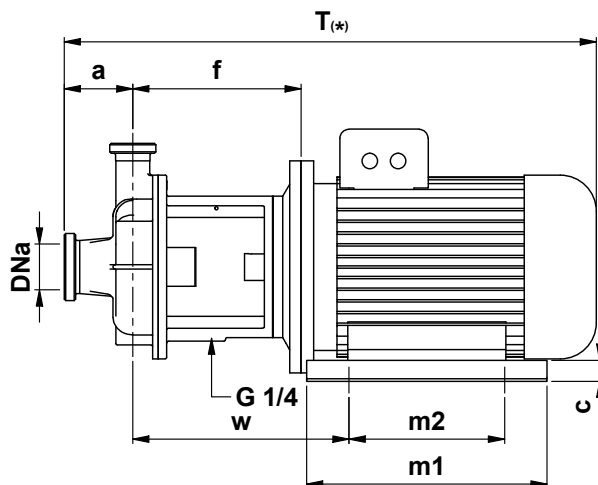
Quote e pesi possono variare senza preavviso
Dimensions and weights can change without prior notice

(*) Lunghezza e peso possono variare in funzione della marca del motore
(*) Length and weight may vary, it depends by the motor brand

Ingombri monoblocco
Close coupled pump overall dimensions



Girante chiusa e aperta
Closed and open impeller



DIN 11851

DNa-DNm	C	F
25	25	52x1/6
32	31	58x1/6
40	37	65x1/6
50	49	78x1/6
65	66	95x1/6
80	81	110x1/4
100	98	130x1/4

Accoppiamento potenza – polarità/grandezza motore
Power – polarity/motor size coupling

Poli	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW	G/kW
2	71	80	80	90S	90L	100L	112M	132S	132S	132M	160M	160M	160L	180M
	0,55	0,75	1,1	1,5	2,2	3	4	5,5	7,5	9,2	11	15	18,5	22
4	80	80	90S	90L	100L	100L	112M	132S	132M	132M	160M	160L	180M	180L
	0,55	0,75	1,1	1,5	2,2	3	4	5,5	7,5	9,2	11	15	18,5	22
6	80	90S	90L	100L	112M	132S	132M	132M	160M	160L	180L	-	-	-
	0,55	0,75	1,1	1,5	2,2	3	4	5,5	7,5	11	15	-	-	-

Pompa tipo Pump size	Grandezza motore Motor size	Dimensioni Dimensions (mm)																Peso Weight (kg) ^(*)
		Dna	Dnm	a	f	h1	h2	b	c	m1	m2	n1	n2	s1	s2	w	T _(*)	
25-16	80	40	25	76	187	155	171	23	75	300	220	203	183	10	3	177	505	20
	90	40	25	76	187	165	171	23	75	300	220	216	198	10	3	196	550	37
	100	40	25	76	207	155	171	25	55	280	200	240	218	12	3	240	608	51
	112	40	25	76	207	167	171	25	55	280	200	270	248	12	3	247	612	58
32-16	80	50	32	95	194	155	176	23	75	300	220	203	183	10	3	184	531	21
	90	50	32	95	194	165	176	23	75	300	220	218	198	10	3	203	576	37
	100	50	32	95	214	155	176	25	55	280	200	240	218	12	3	247	634	51
	112	50	32	95	214	167	176	25	55	280	200	270	248	12	3	254	638	58
	132	50	32	95	234	162	176	29	30	340	220	326	304	14	4	302	747	82

Quote e pesi possono variare senza preavviso
Dimensions and weights can change without prior notice

(*) Lunghezza e peso possono variare in funzione della marca del motore
(*) Length and weight may vary, it depends by the motor brand

Ingombri monoblocco
Close coupled pump overall dimensions

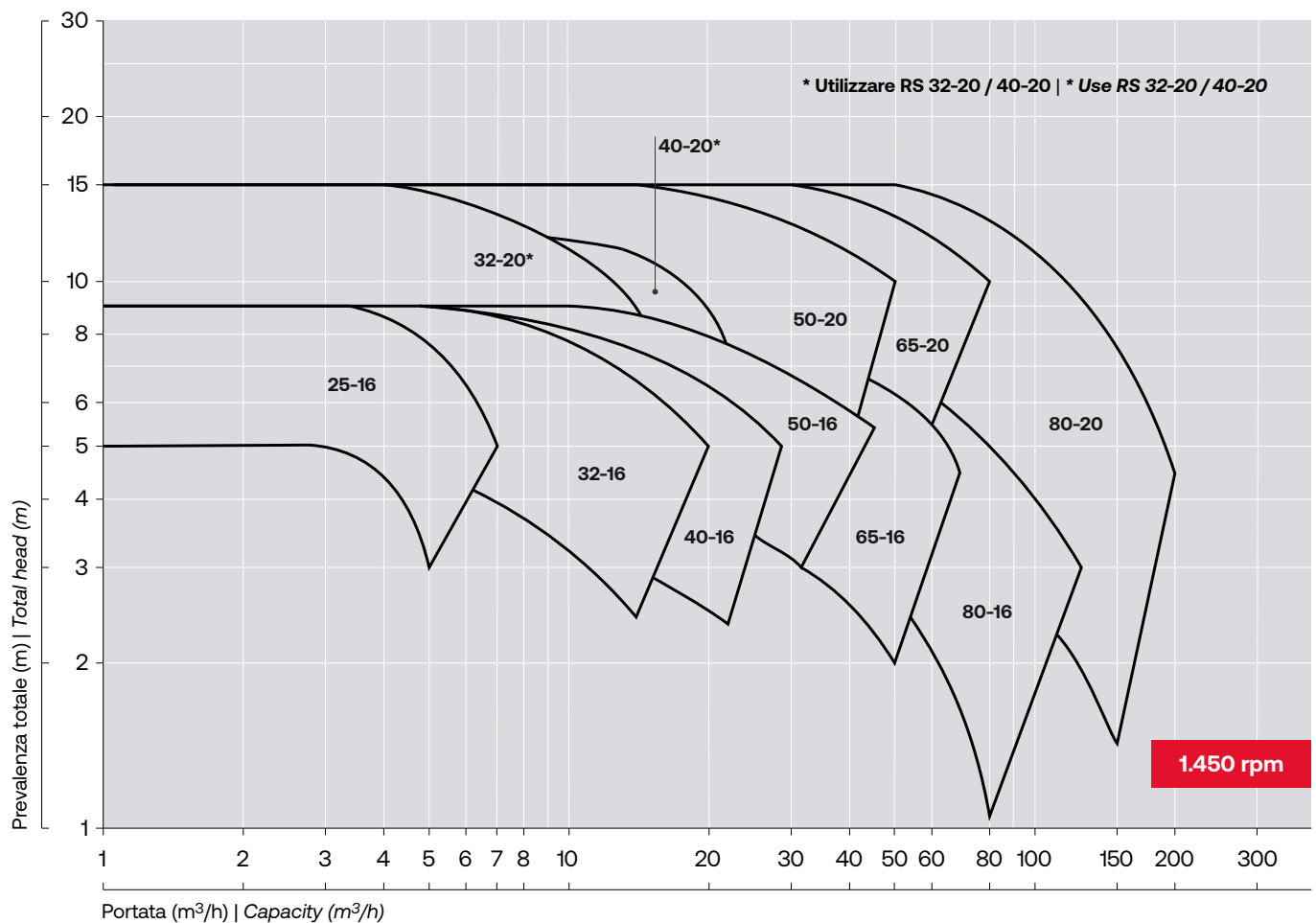
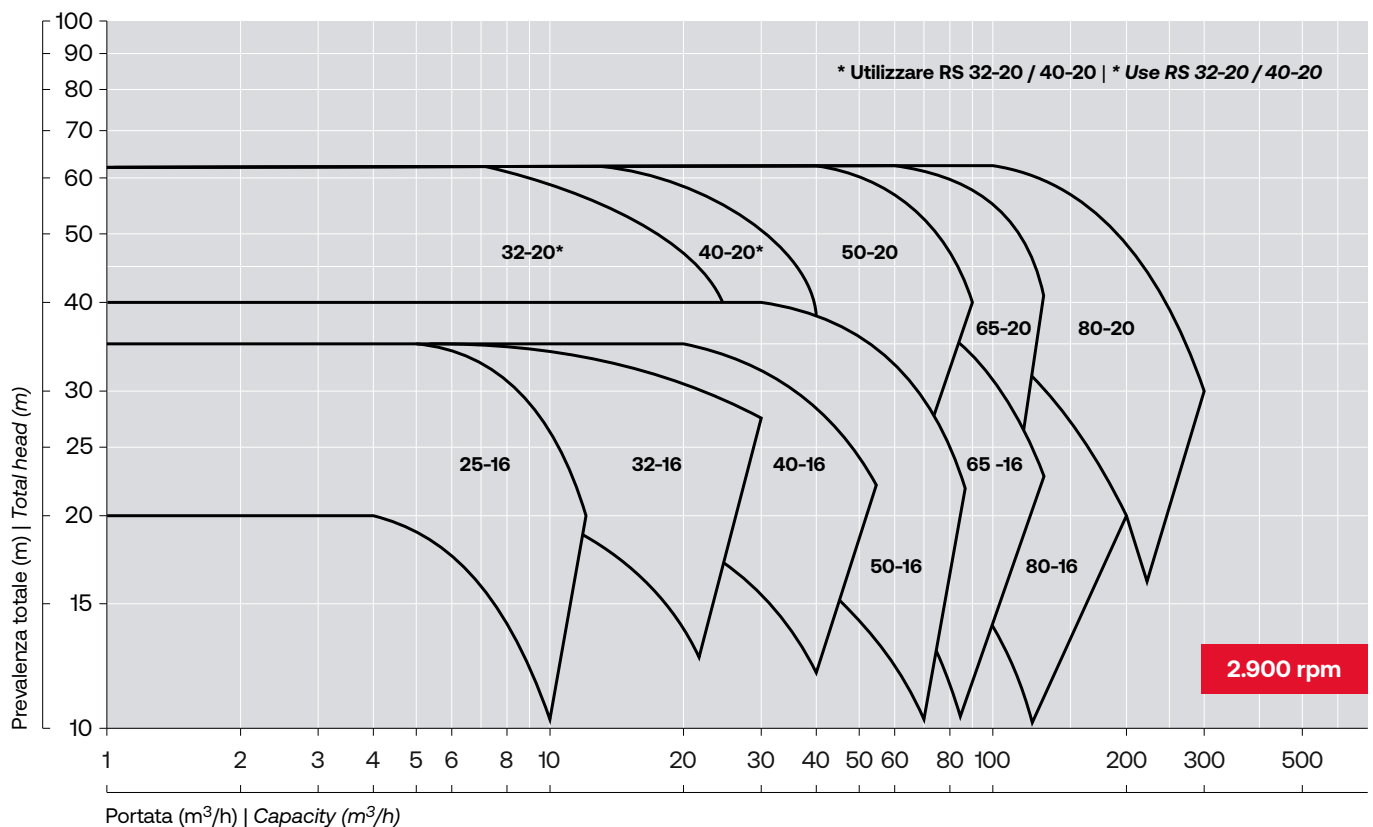


Girante chiusa e aperta
Close and open impeller

Pompa tipo Pump size	Grandezza motore Motor size	Dimensioni Dimensions (mm)																Peso Weight (kg) ^(*)
		Dna	Dnm	a	f	h1	h2	b	c	m1	m2	n1	n2	s1	s2	w	T _(°)	
32-20	80	50	32	95	194	155	192,5	23	3	300	220	203	183	10	0	184	531	21
	90	50	32	95	194	165	192,5	23	3	300	220	218	198	10	0	202,5	576	37
	100	50	32	95	214	155	192,5	25	3	280	200	240	218	12	0	247	634	51
	112	50	32	95	214	167	192,5	25	3	280	200	270	248	12	0	254	638	58
	132	50	32	95	234	162	192,5	29	4	340	220	326	304	14	0	302	747	82
40-16	80	65	40	97	198	155	175	23	75	300	220	203	183	10	3	188	537	22
	90	65	40	97	198	165	175	23	75	300	220	218	198	10	3	207	582	38
	100	65	40	97	218	155	175	25	55	280	200	240	218	12	3	251	640	52
	112	65	40	97	218	167	175	25	55	280	200	270	248	12	3	258	644	59
	132	65	40	97	238	162	175	29	30	340	220	326	304	14	4	306	753	82
40-20	90	65	40	117	196	165	195	23	3	300	220	218	198	10	0	204,5	600	38
	100	65	40	117	216	155	195	25	3	280	200	240	218	12	0	249	658	52
	112	65	40	117	216	167	195	25	3	280	200	270	248	12	0	256	662	59
	132	65	40	117	236	162	195	29	4	340	220	326	304	14	0	304	771	82
50-16	80	80	50	133	203	155	195	23	75	300	220	203	183	10	3	193	578	24
	90	80	50	133	203	165	195	23	75	300	220	218	198	10	3	212	623	40
	100	80	50	133	223	155	195	25	55	280	200	240	218	12	3	256	681	54
	112	80	50	133	223	167	195	25	55	280	200	270	248	12	3	263	685	61
	132	80	50	133	243	162	195	29	30	340	220	326	304	14	4	311	794	84
50-20	80	80	50	133	221	155	215	23	75	300	220	203	183	10	3	211	596	27
	90	80	50	133	221	165	215	23	75	300	220	218	198	10	3	230	641	43
	100	80	50	133	241	155	215	25	55	280	200	240	218	12	3	274	699	57
	112	80	50	133	241	167	215	25	55	280	200	270	248	12	3	281	703	64
	132	80	50	133	261	162	215	29	30	340	220	326	304	14	4	329	812	88
	160	80	50	133	291	210	215	45	50	500	350	404	364	15	5	351	965	180
65-16	80	100	65	143	230	155	217	23	75	300	220	203	183	10	3	220	615	28
	90	100	65	143	230	165	217	23	75	300	220	218	198	10	3	238	660	45
	100	100	65	143	250	155	217	25	55	280	200	240	218	12	3	283	718	58
	112	100	65	143	250	167	217	25	55	280	200	270	248	12	3	290	722	65
	132	100	65	143	270	162	217	29	30	340	220	326	304	14	4	338	831	89
	160	100	65	143	300	210	217	45	50	500	350	404	364	15	5	360	984	181
65-20	90	100	65	143	229	190	242	31	100	370	220	234	207	12	4	237	659	48
	100	100	65	143	249	200	242	31	100	370	220	254	227	12	4	272	717	62
	112	100	65	143	249	212	242	31	100	370	220	284	257	12	4	279	721	69
	132	100	65	143	269	212	242	31	80	400	300	325	298	12	4	297	830	92
	160	100	65	143	299	210	242	45	50	500	350	404	364	15	5	359	983	185
80-16	90	125	80	170	236	190	253	31	100	370	220	234	207	12	4	245	693	49
	100	125	80	170	256	200	253	31	100	370	220	254	227	12	4	279	751	63
	112	125	80	170	256	212	253	31	100	370	220	284	257	12	4	286	755	70
	132	125	80	170	276	212	253	31	80	400	300	325	298	12	4	304	864	94
	160	125	80	170	306	210	253	45	50	500	350	404	364	15	5	366	1017	186
80-20	90	125	80	170	236	190	283	31	100	370	220	234	207	12	4	245	693	51
	100	125	80	170	256	200	283	31	100	370	220	254	227	12	4	279	751	65
	112	125	80	170	256	212	283	31	100	370	220	284	257	12	4	286	755	72
	132	125	80	170	276	212	283	31	80	400	300	325	298	12	4	304	864	95
	160	125	80	170	306	210	283	45	50	500	350	404	364	15	5	366	1017	188

Quote e pesi possono variare senza preavviso
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(*) Length and weight may vary, it depends by the motor brand



Curve prestazionali redatte secondo classe di accettabilità ISO 9906 - Classe 2B.

I valori di NPSH mostrati si riferiscono ad una caduta di prevalenza totale pari al 3%.

Per portate inferiori a $Q=0,3 \times Q_{opt.}$ non è possibile fornire valori attendibili di NPSH.

I valori di prevalenza, potenza, NPSH e rendimento si riferiscono a liquidi con densità relativa pari a 1,0 ed una viscosità cinematica massima di $20 \text{ mm}^2/\text{s}$.

In caso di densità relativa (ρ_r) diversa da 1,0 sarà necessario moltiplicare il valore della potenza per " ρ_r " e dividere di conseguenza il rendimento per " ρ_r ".

Se la viscosità supera i $20 \text{ mm}^2/\text{s}$, dovranno essere valutati gli effetti della viscosità sui parametri prestazionali della pompa e considerare i relativi dati con acqua fredda.

Le curve prestazionali si riferiscono a pompe ad asse orizzontale in esecuzione Asse Nudo e tenuta meccanica singola; per configurazioni diverse (cuscinetti maggiorati, tenute meccaniche doppie, pompe ad asse verticale, ecc..) il rendimento della pompa potrebbe differire da quello indicato a catalogo.

Performance curves according to ISO 9906 - Grade 2B acceptability class.

The given NPSH values correspond to a total head drop of 3%. For flow rates below $Q = 0.3 \times Q_{opt.}$, no reliable NPSH values can be provided.

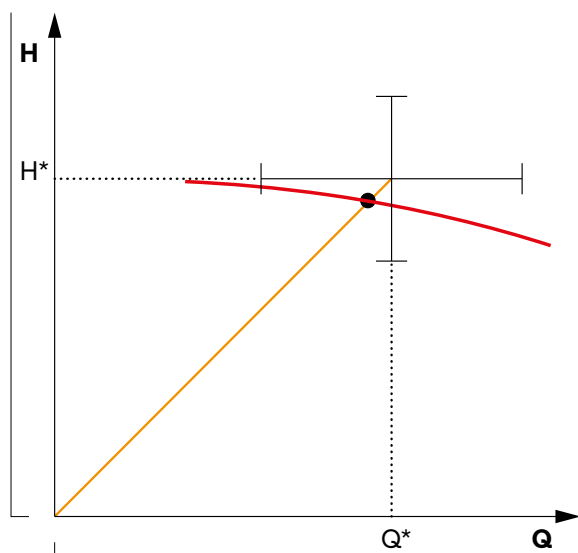
Head, power, NPSH and efficiency values refer to liquids with a relative density of 1.0 and a maximum kinematic viscosity of $20 \text{ mm}^2/\text{s}$.

In case of a different relative density (ρ_r) than 1.0, it will be necessary to multiply the power value by " ρ_r " and, accordingly, divide the efficiency by " ρ_r ".

If the viscosity exceeds $20 \text{ mm}^2/\text{s}$, the effects of viscosity on the pump's performance parameters must be evaluated, considering the related data with cold water.

The performance curves refer to horizontal pumps with bare shaft execution and single mechanical seal.

For different configurations (oversized bearings, double mechanical seals, vertical-axis pumps, etc.), the pump's efficiency may differ from the one indicated in the catalogue.



ISO 9906
Classe 2B
Grade 2B

ΔQ

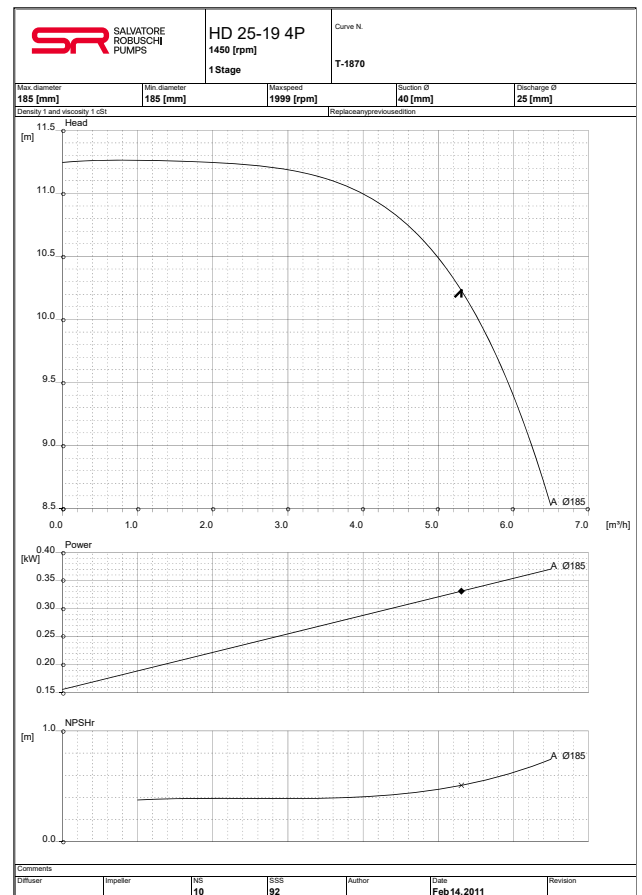
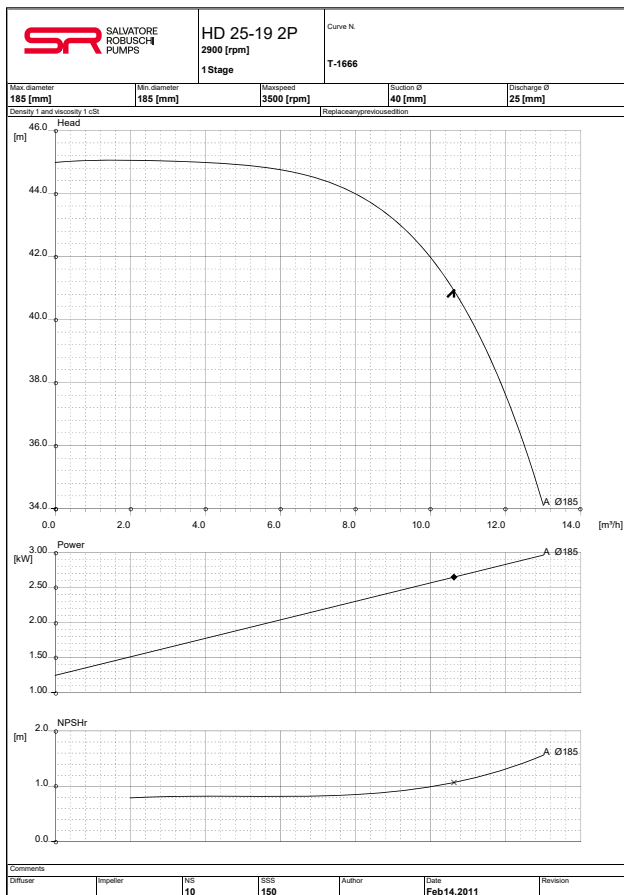
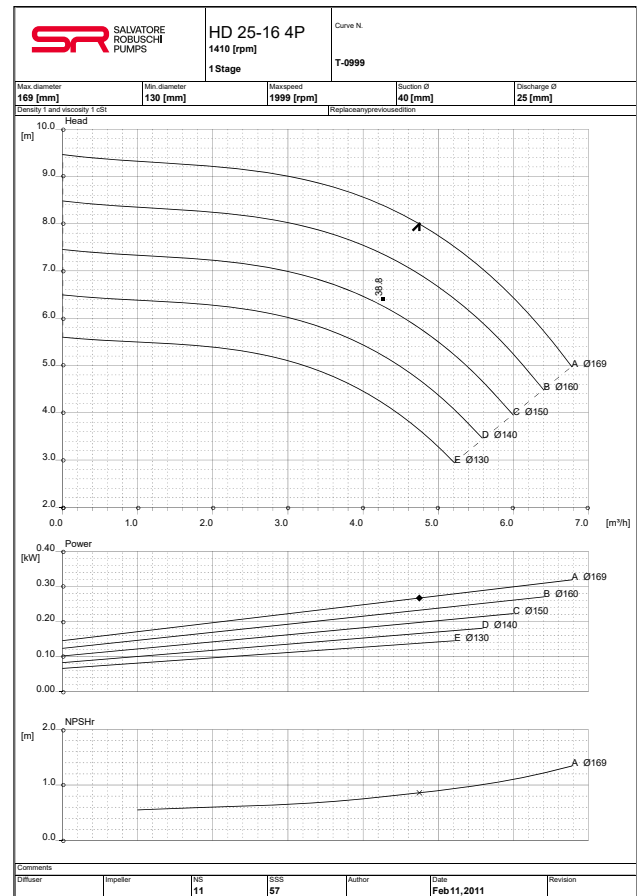
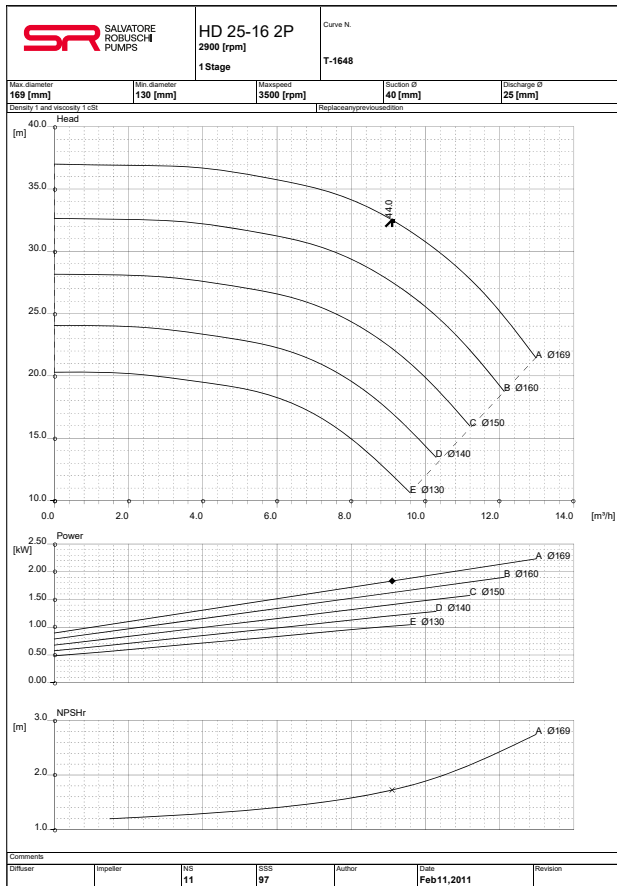
$\pm 8\%$

ΔH

$\pm 5\%$

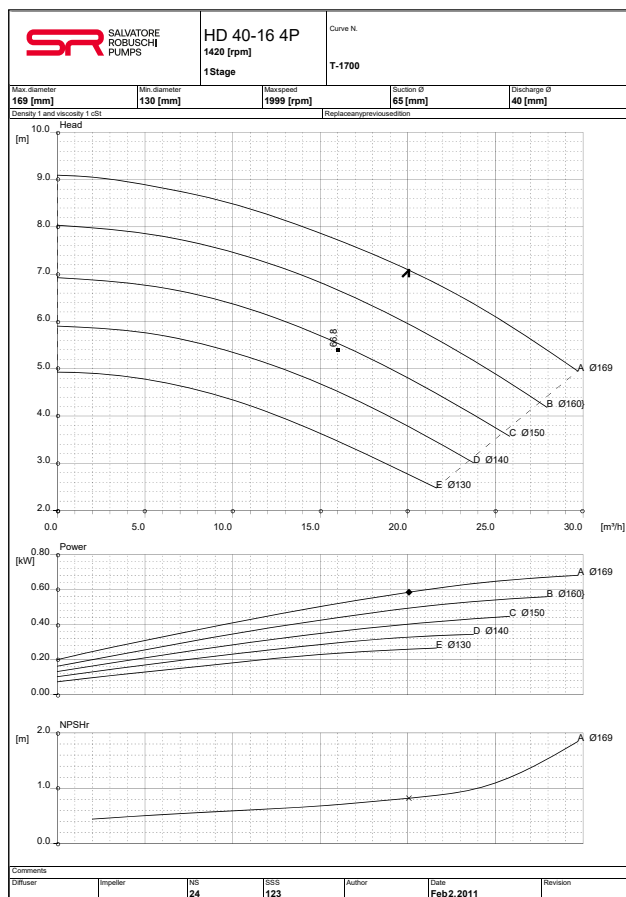
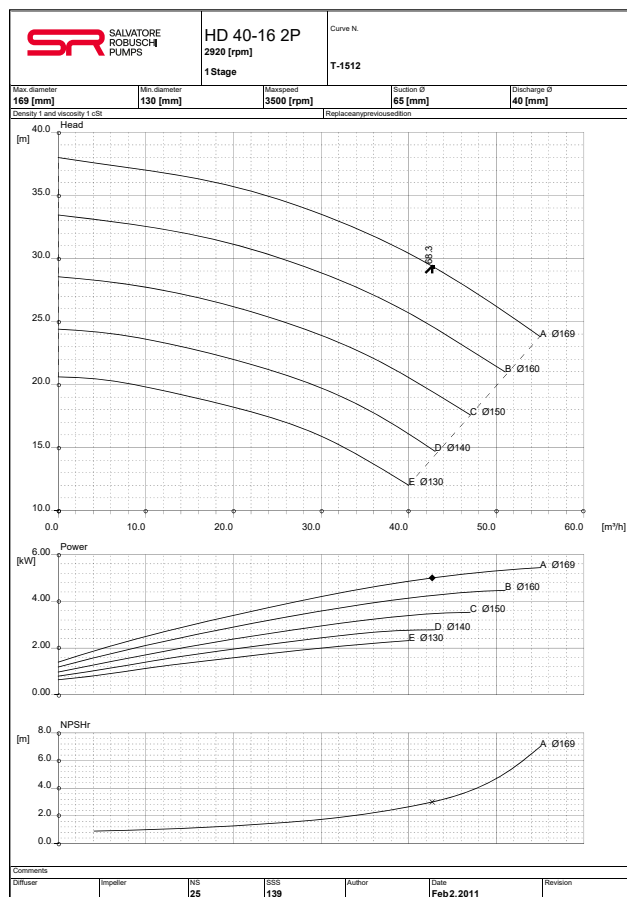
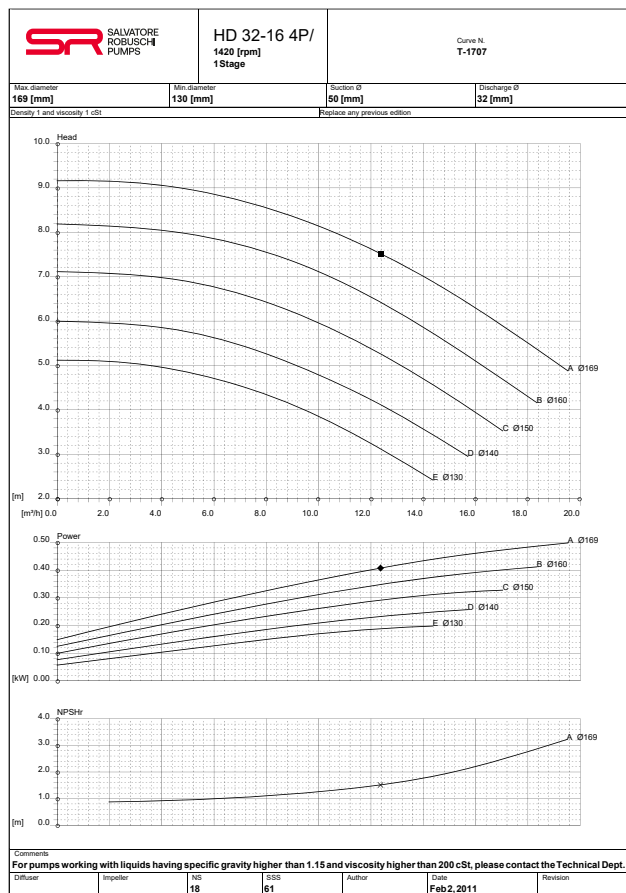
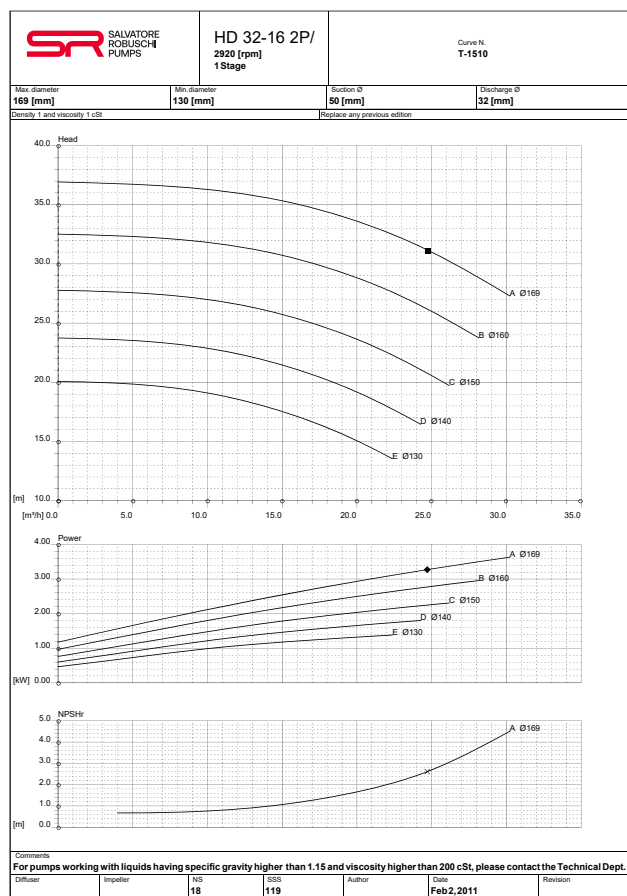
Curve prestazionali Performance curves

Girante chiusa
Closed impeller



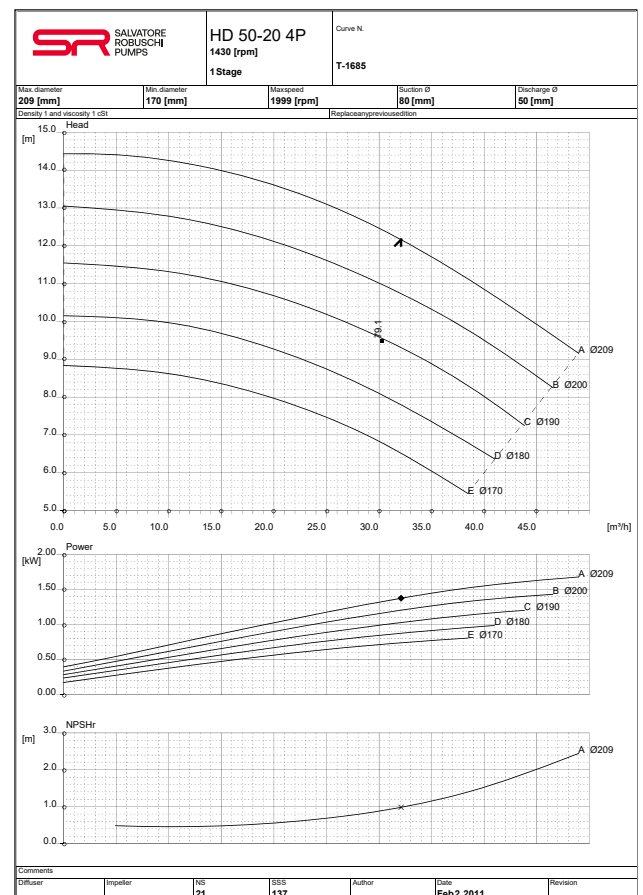
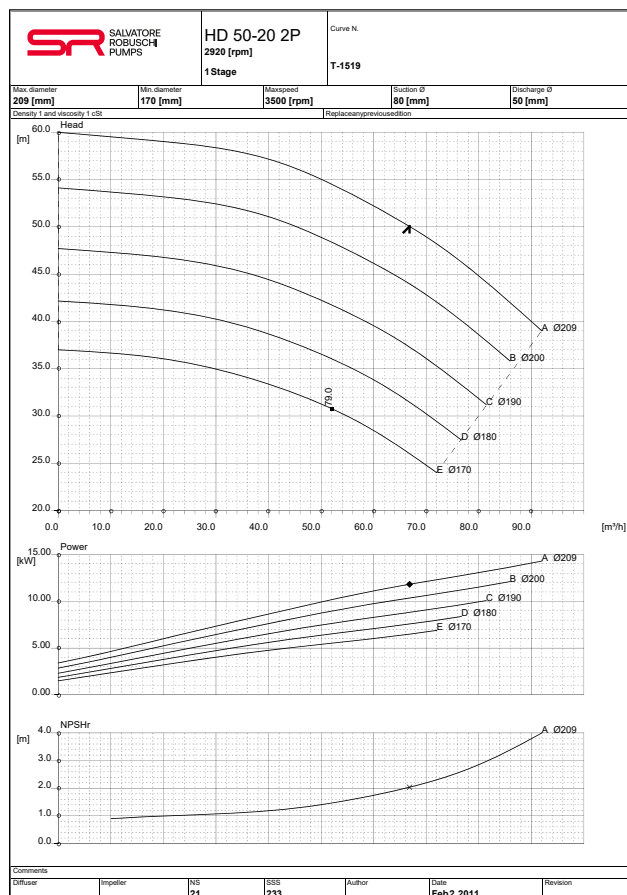
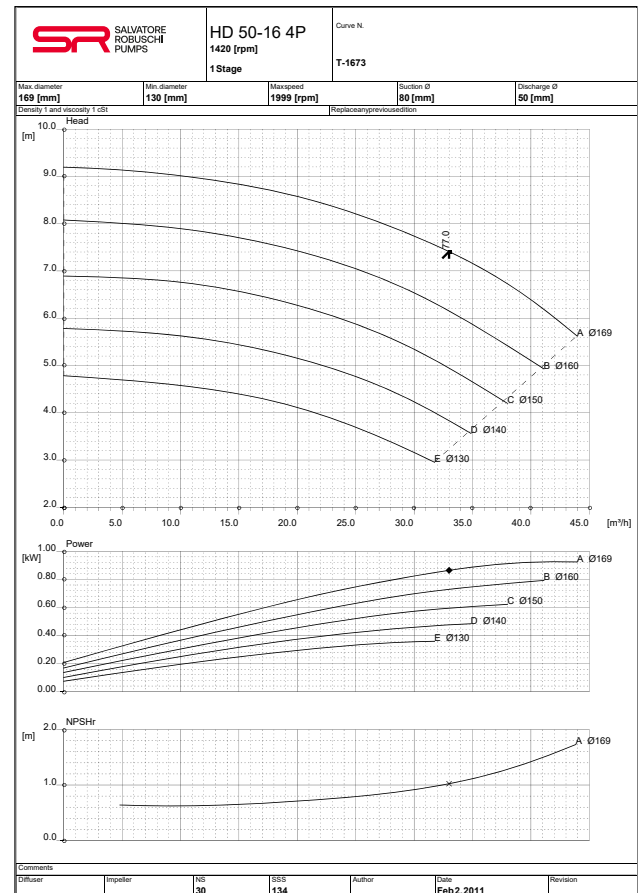
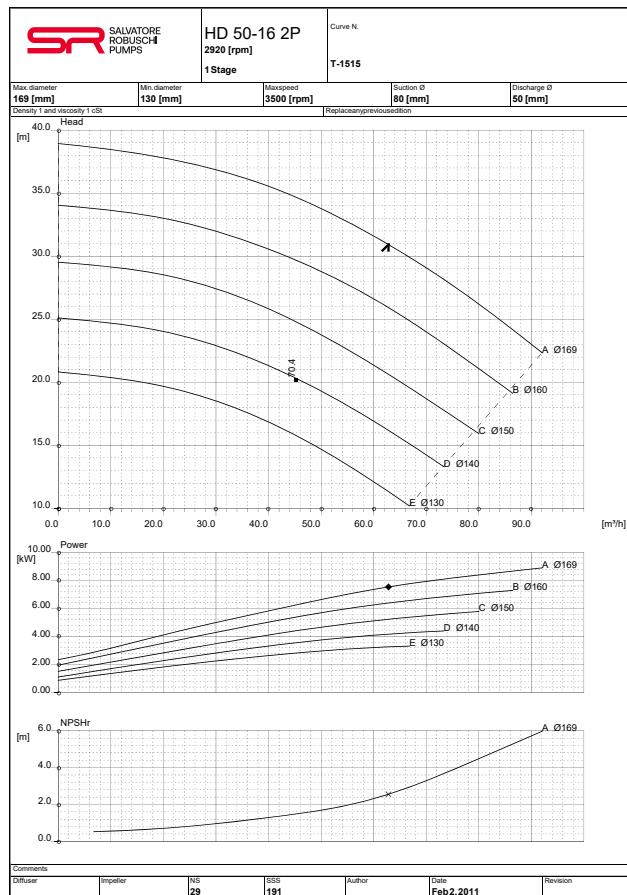
Curve prestazionali Performance curves

Girante chiusa
Closed impeller



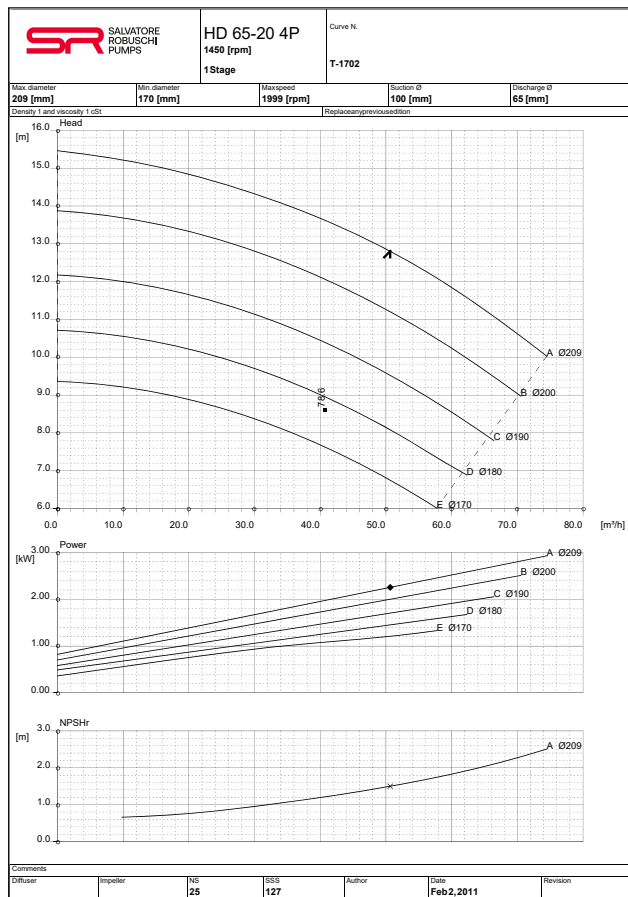
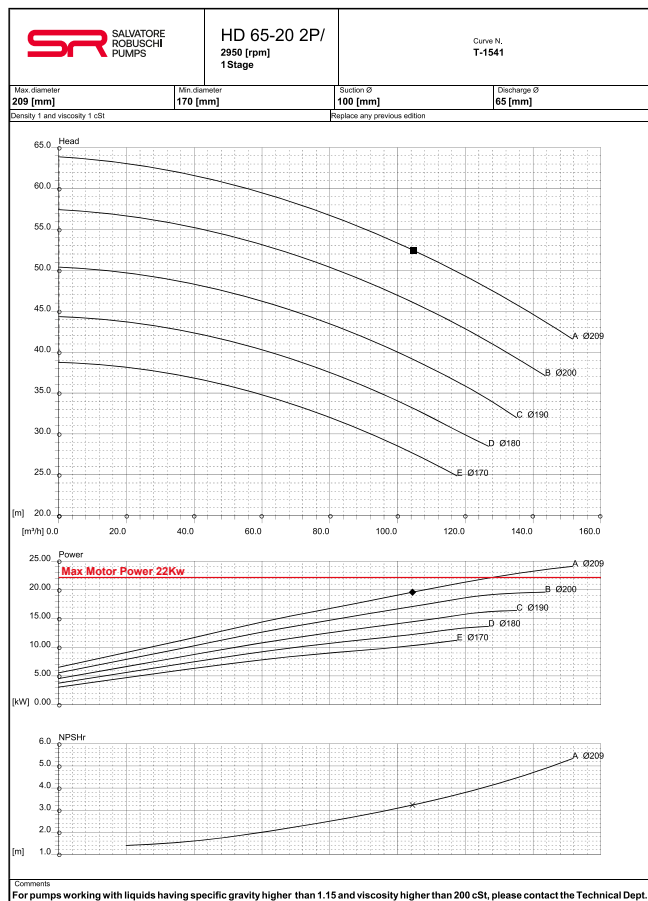
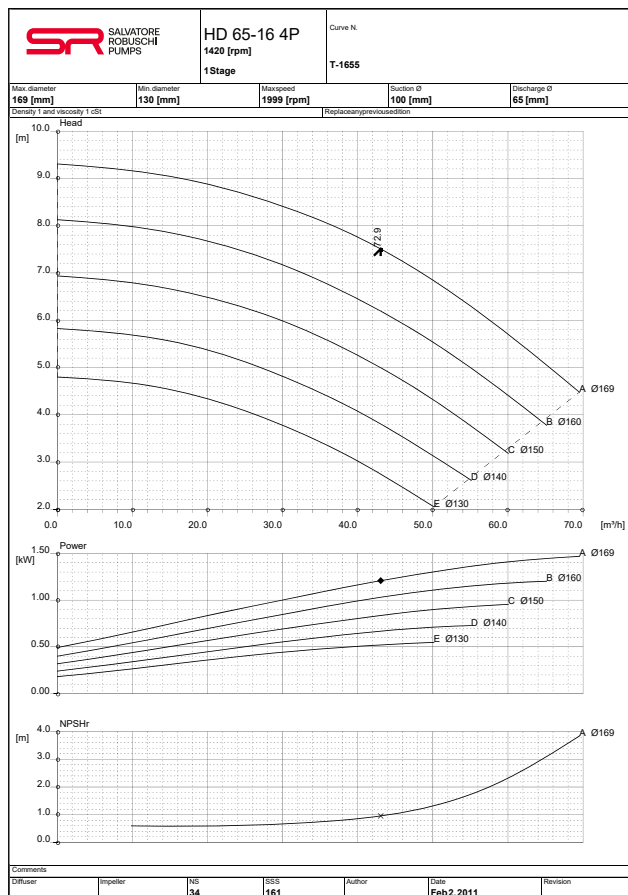
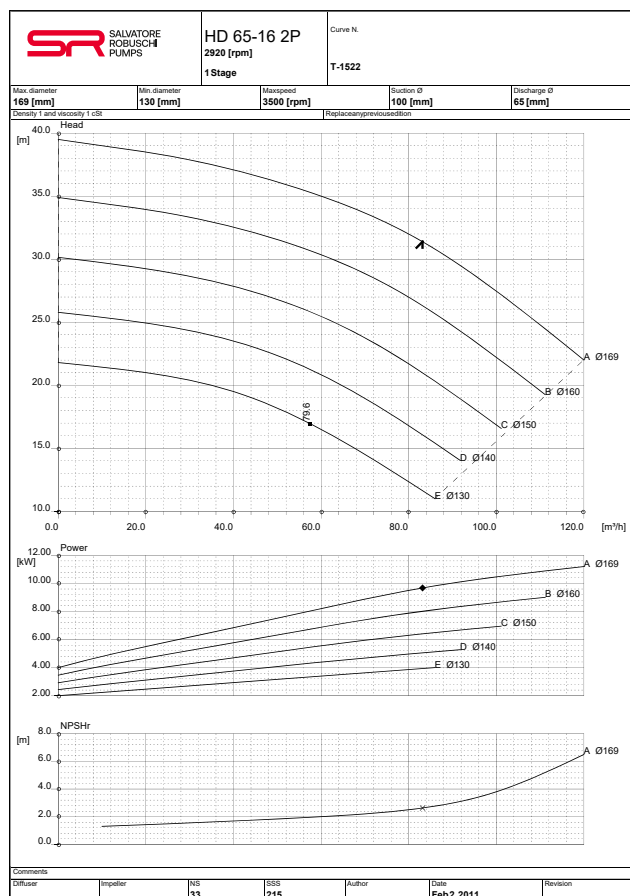
Curve prestazionali Performance curves

Girante chiusa
Closed impeller



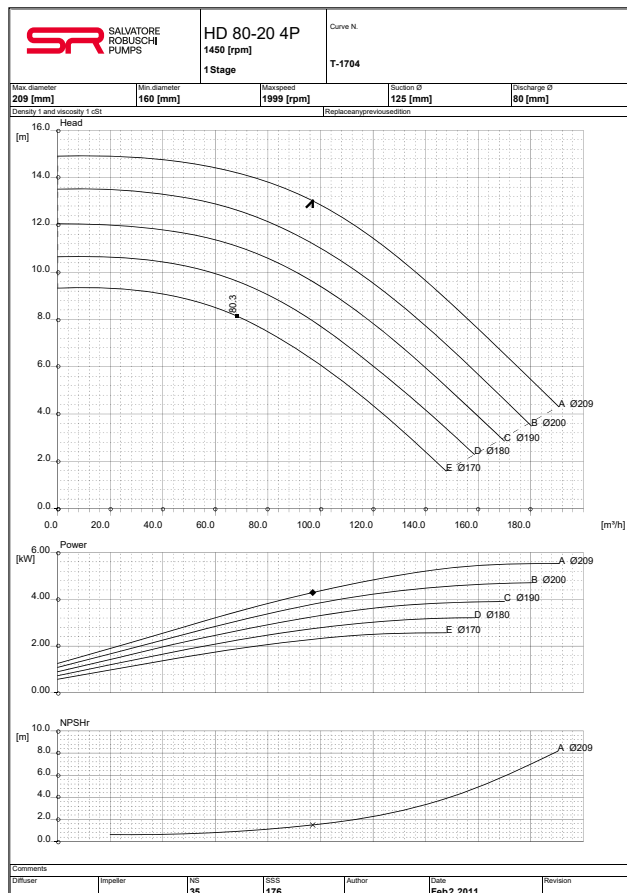
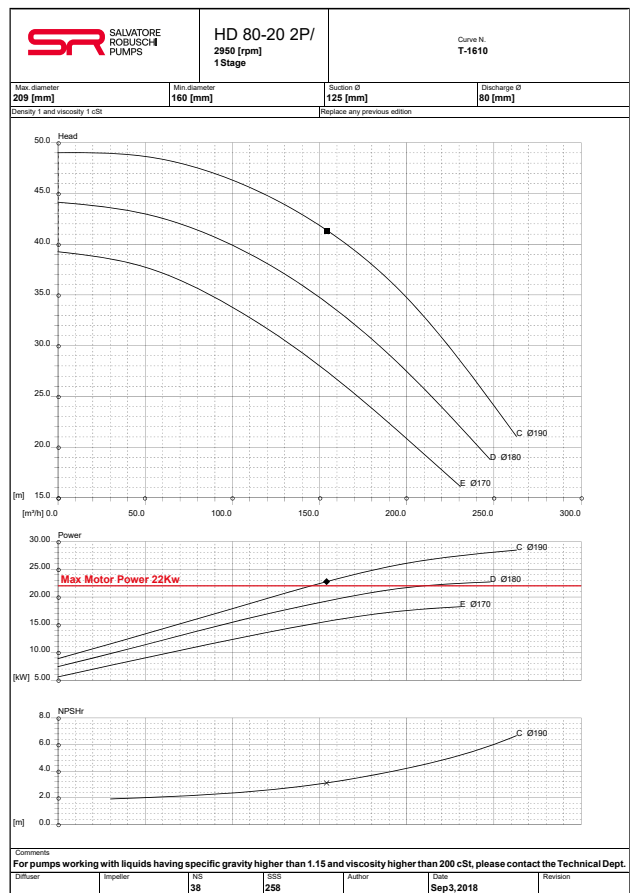
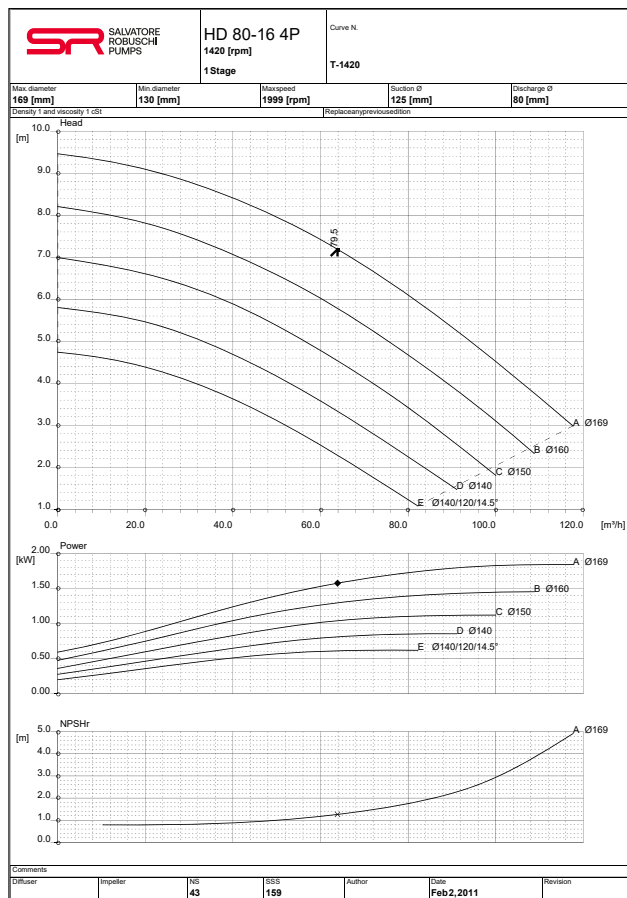
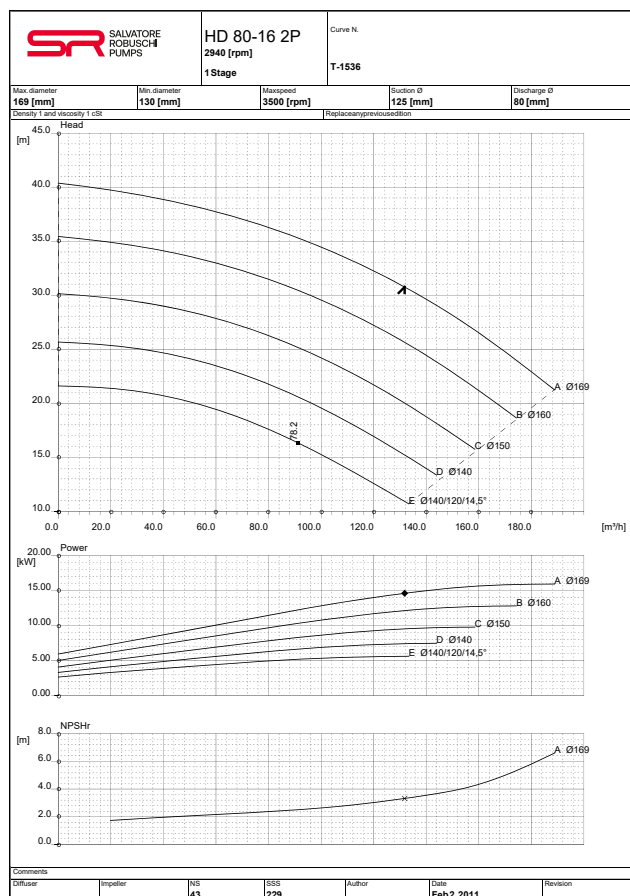
Curve prestazionali Performance curves

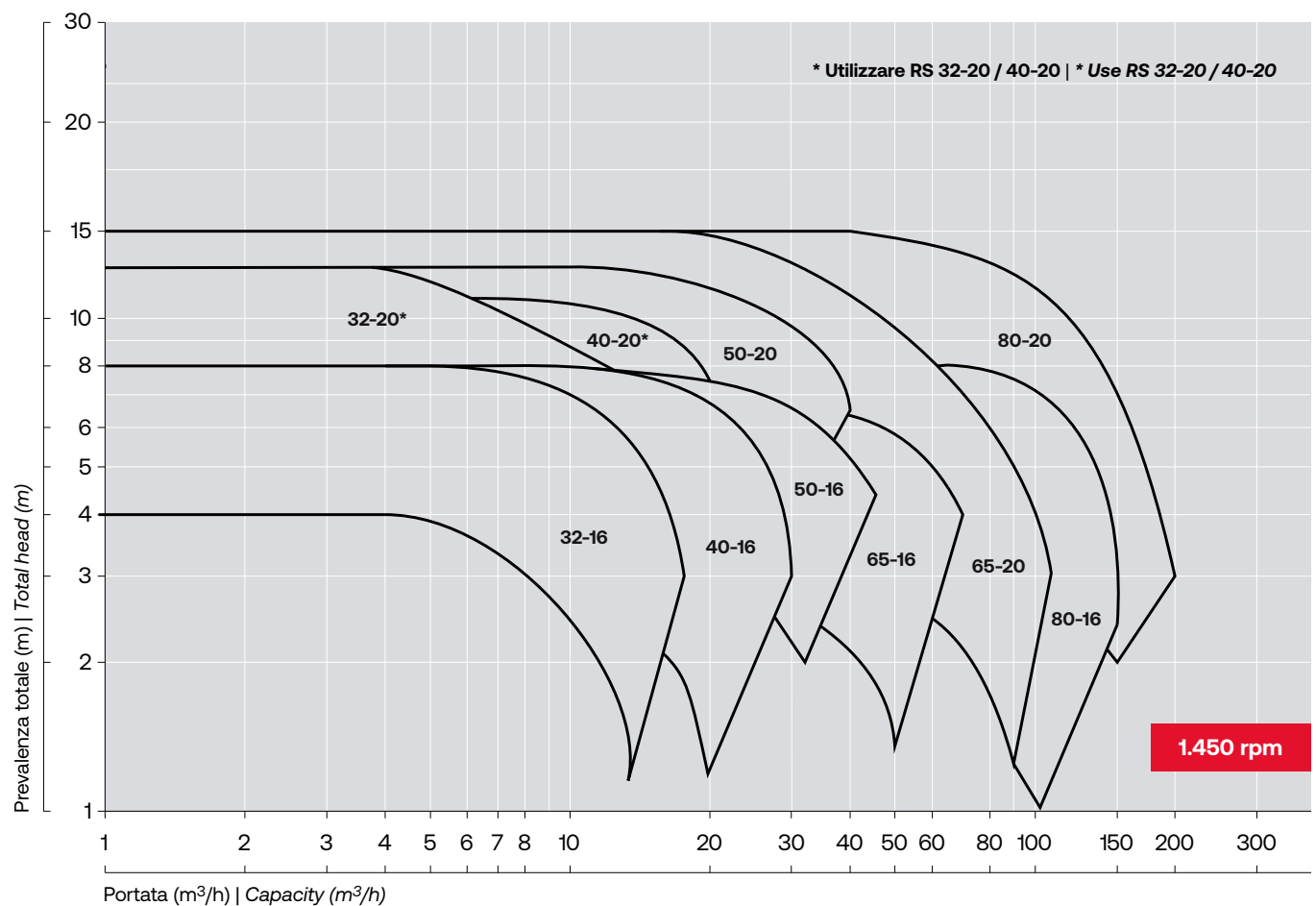
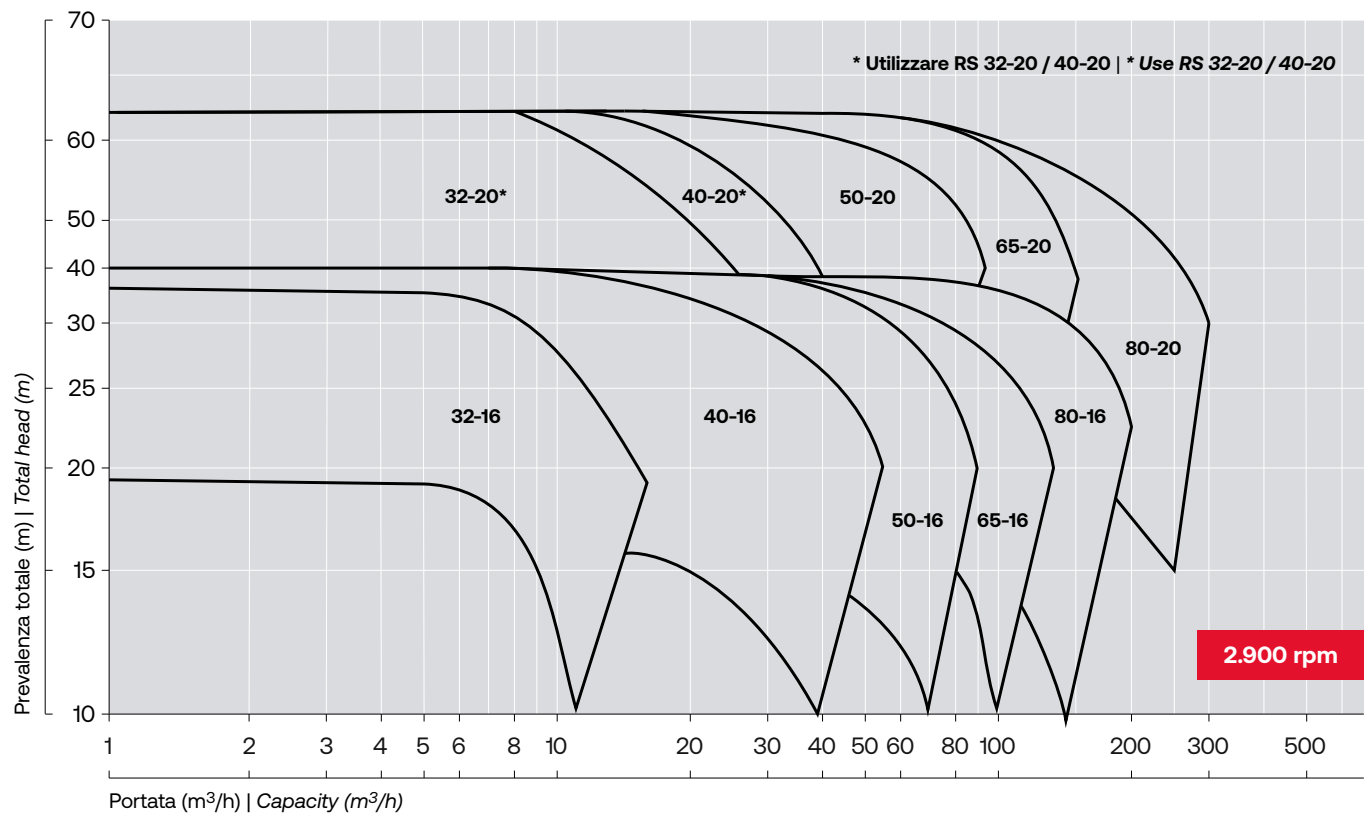
Girante chiusa
Closed impeller



Curve prestazionali Performance curves

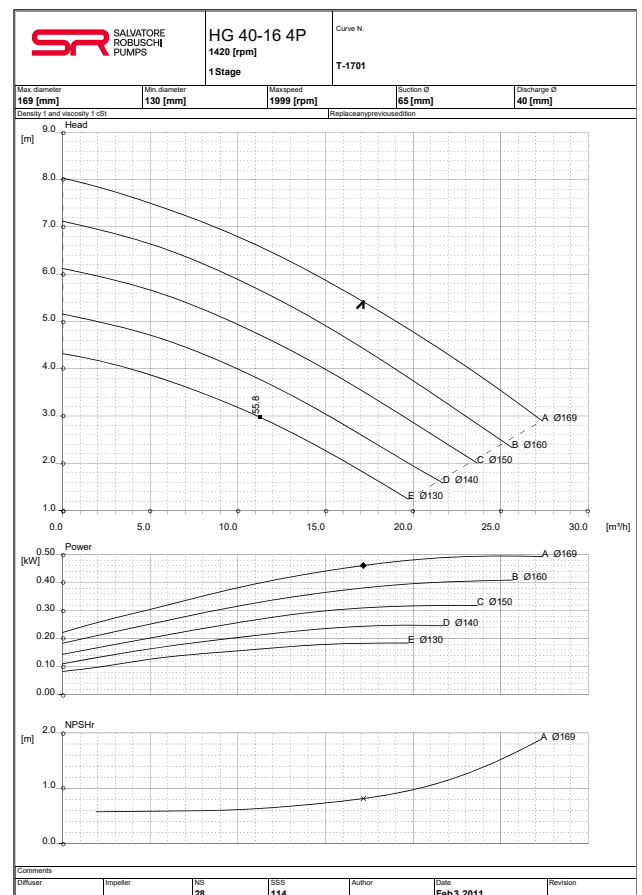
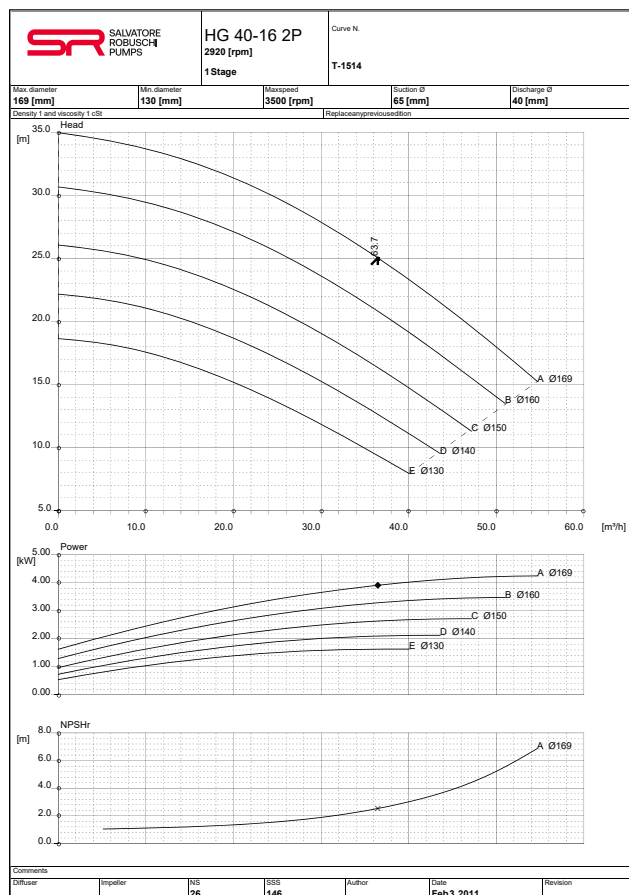
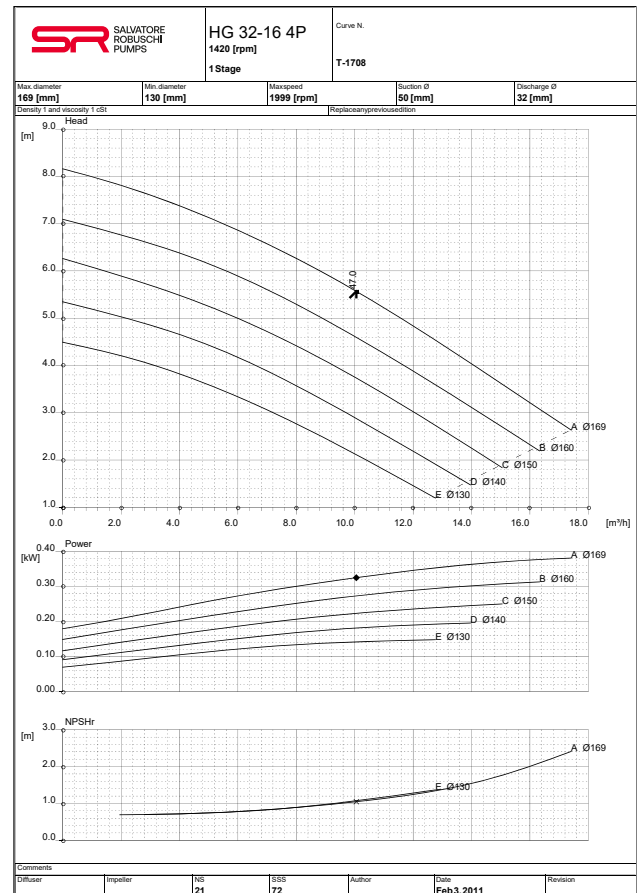
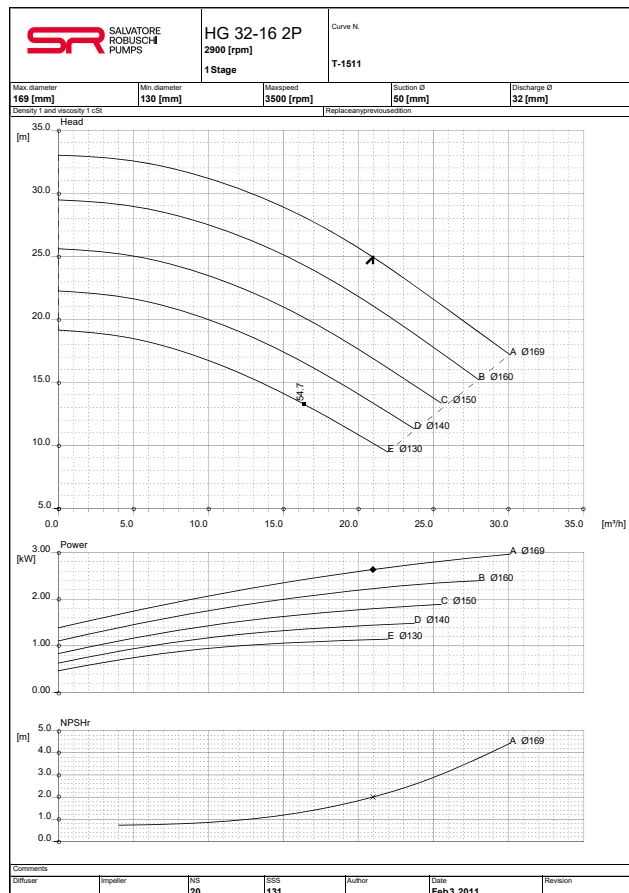
Girante chiusa
Closed impeller





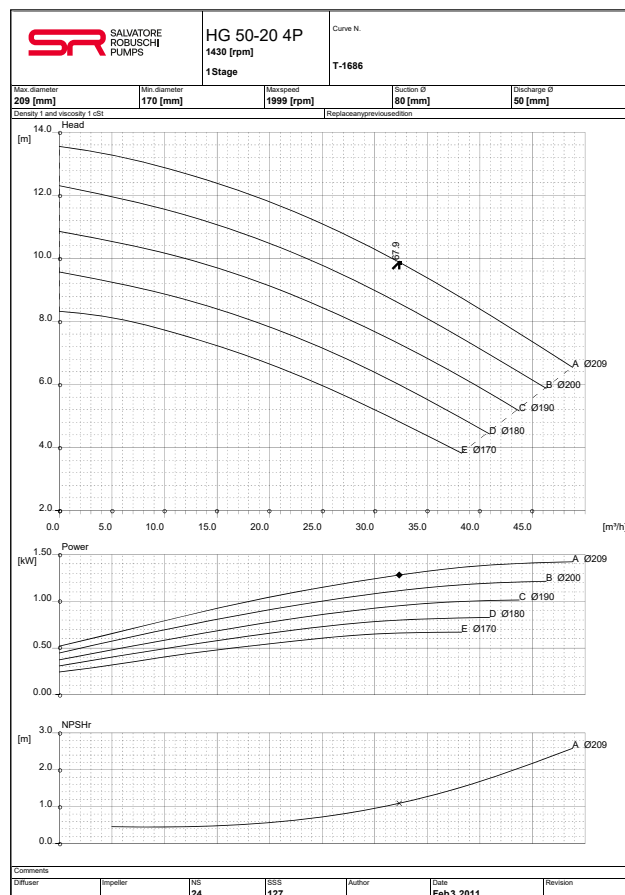
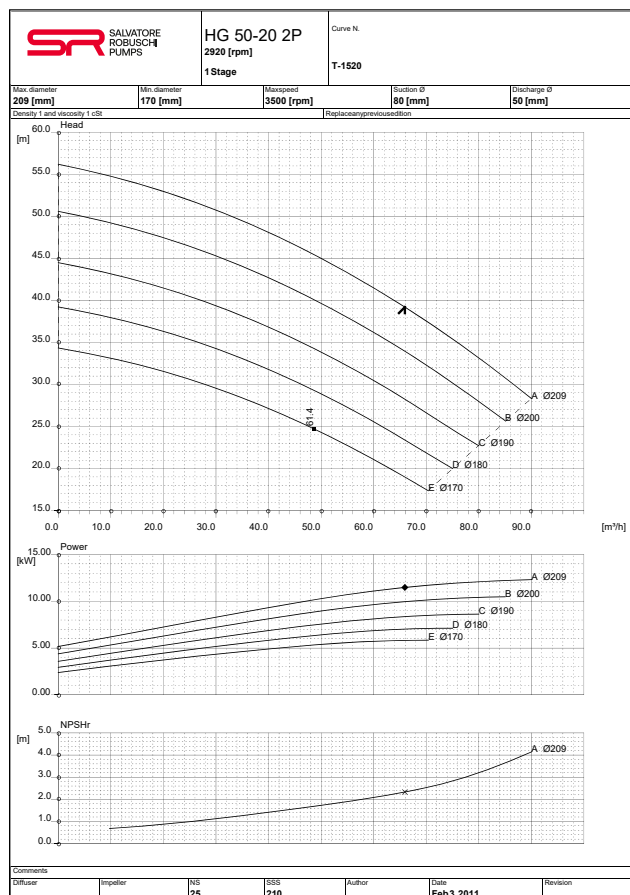
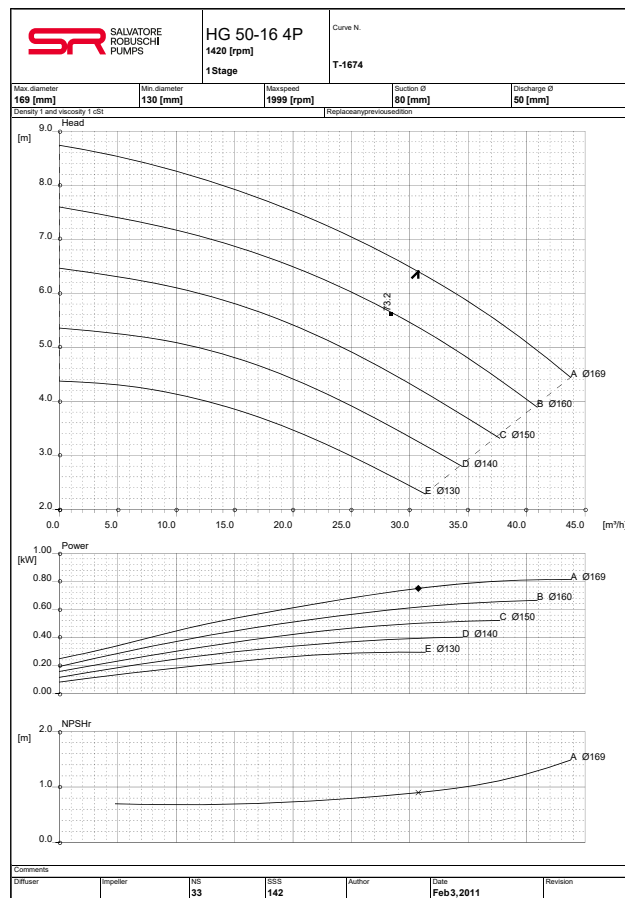
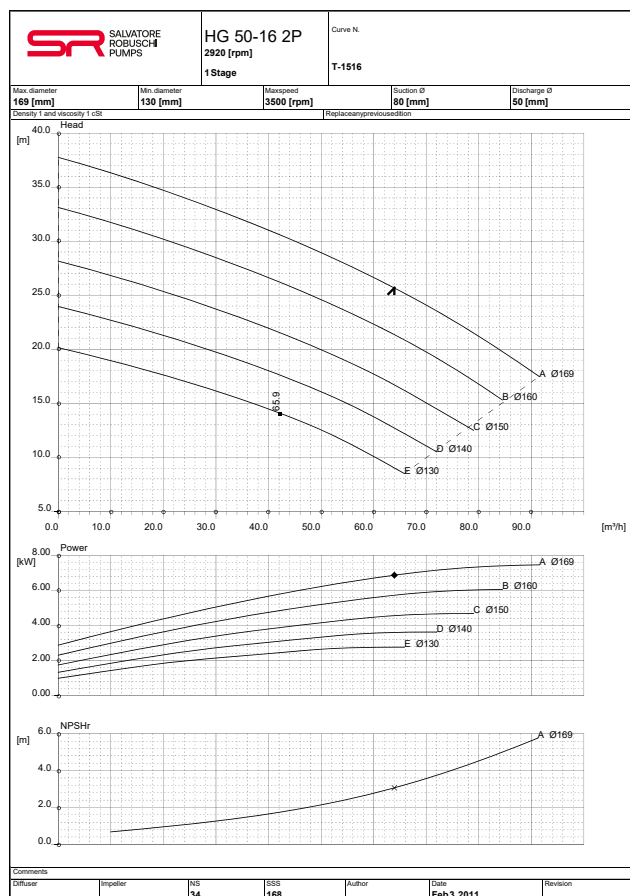
Curve prestazionali Performance curves

Girante aperta
Open impeller



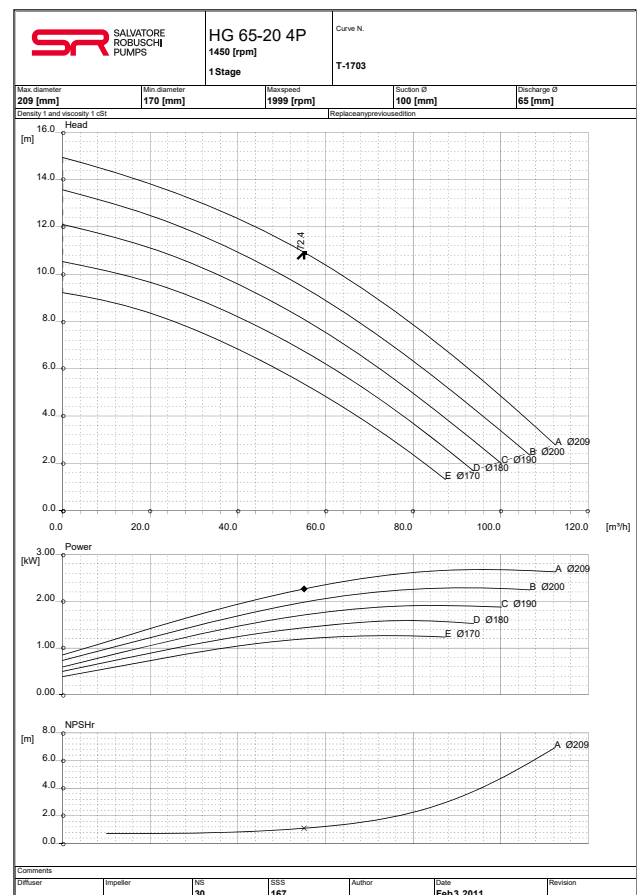
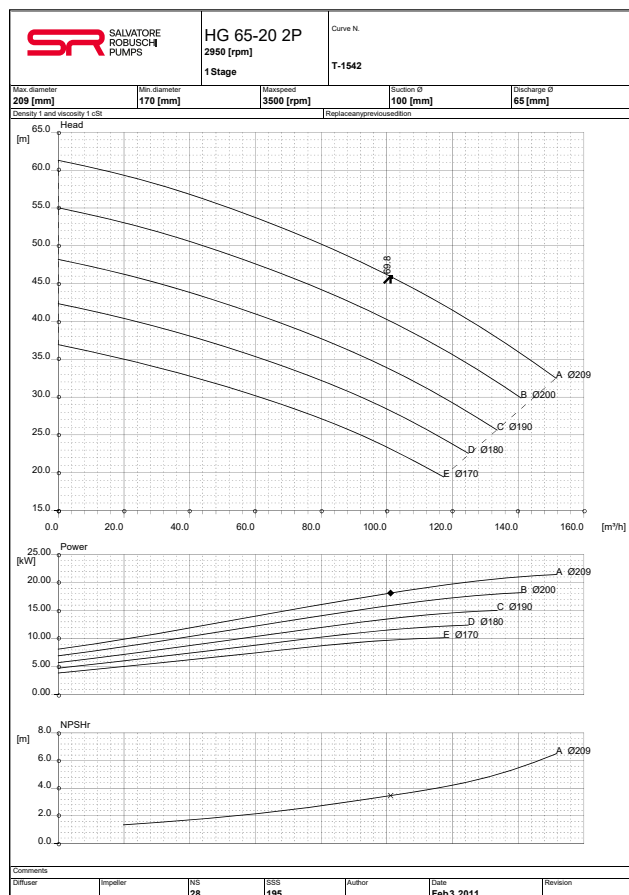
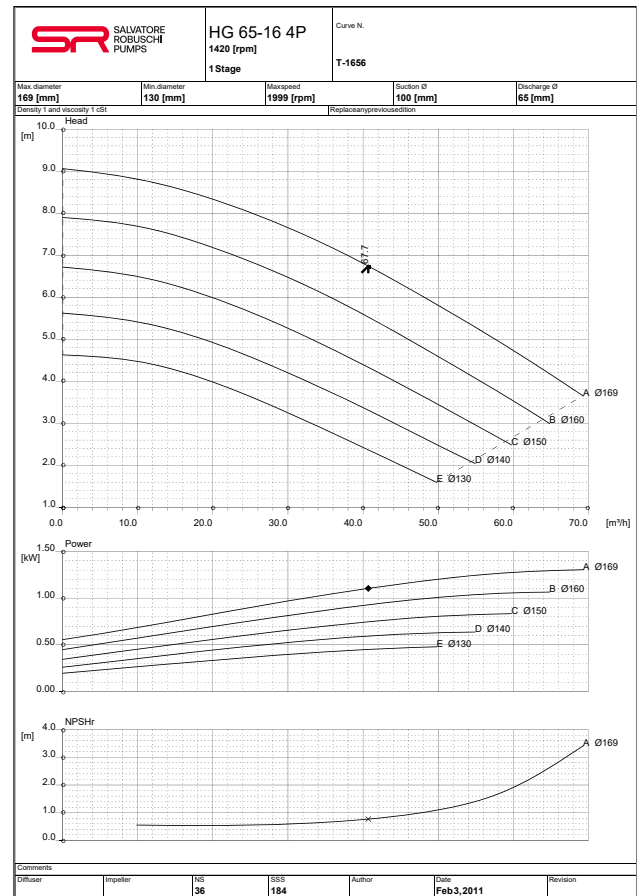
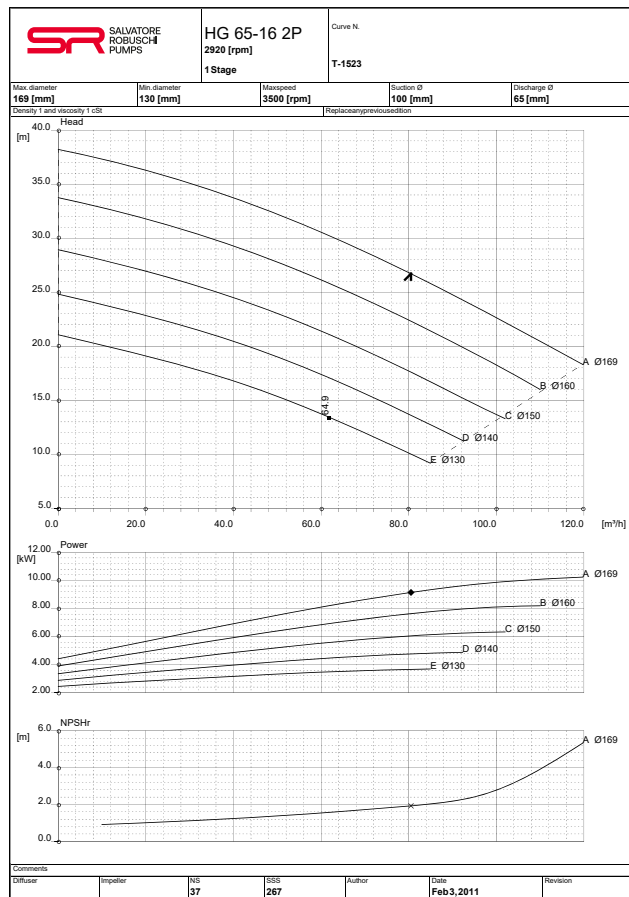
Curve prestazionali Performance curves

Girante aperta
Open impeller



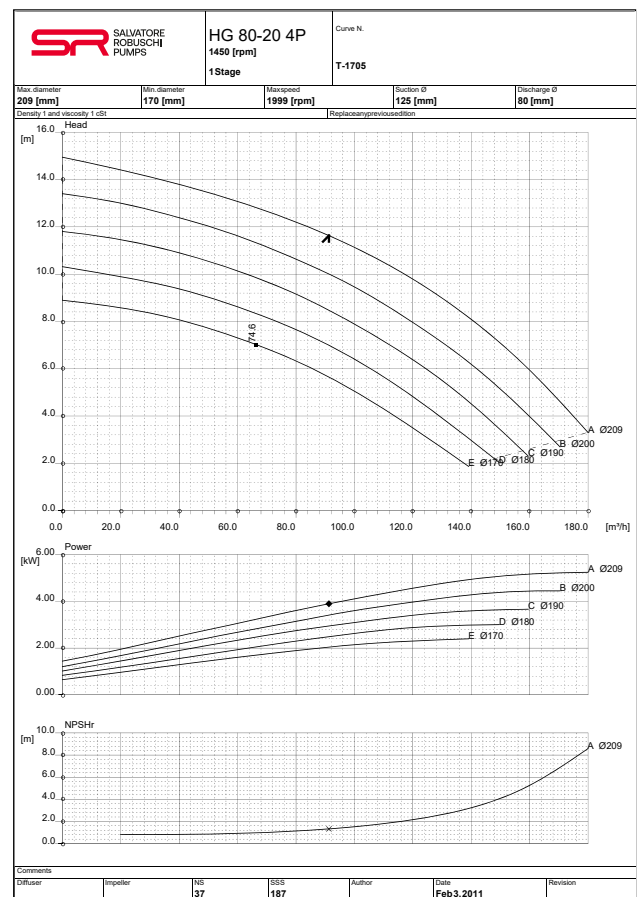
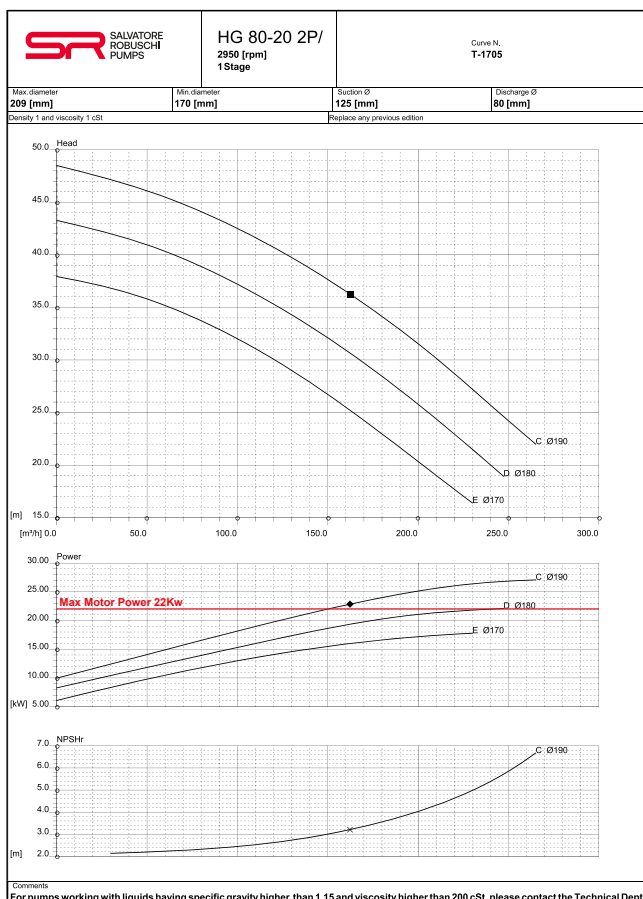
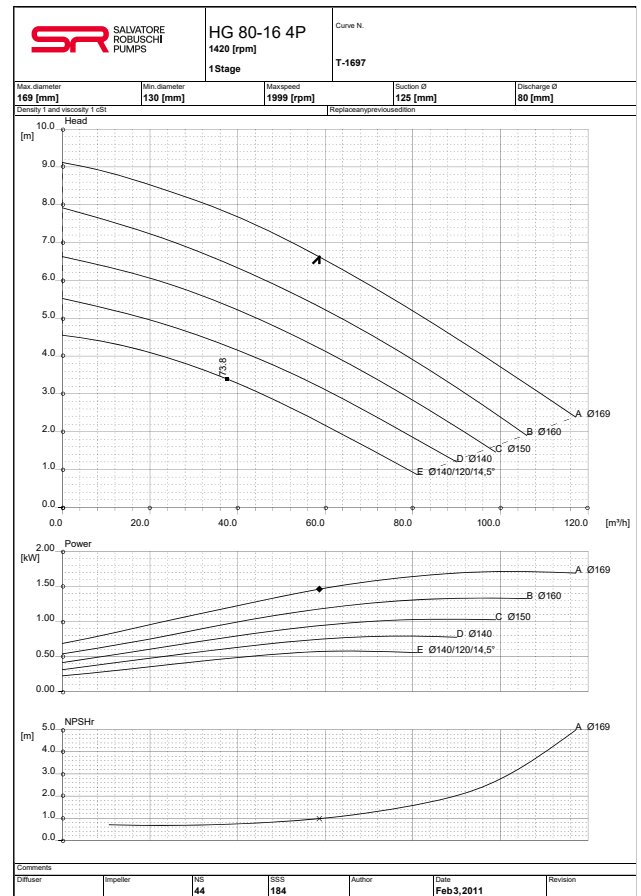
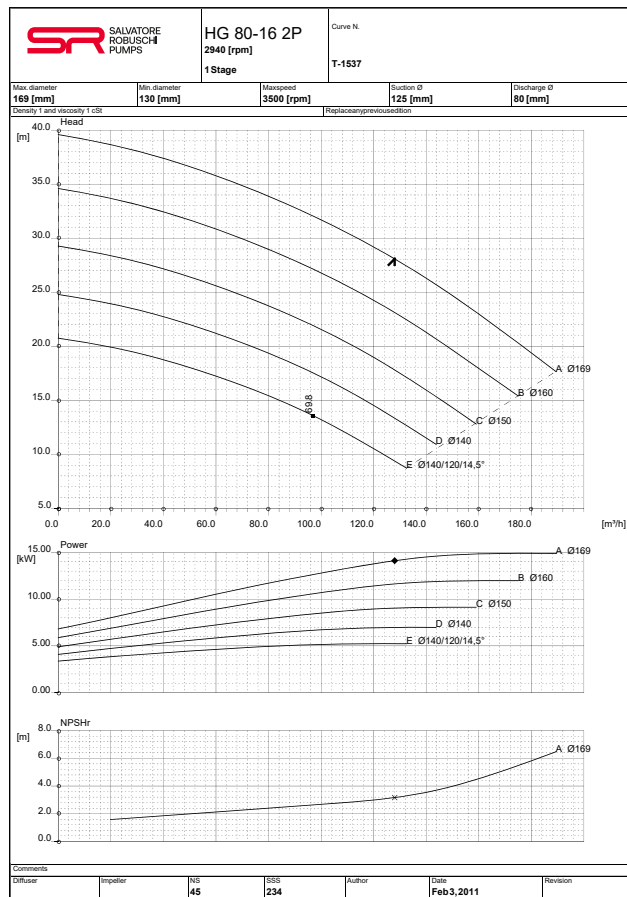
Curve prestazionali Performance curves

Girante aperta
Open impeller



Curve prestazionali Performance curves

Girante aperta
Open impeller



HD HG

Parti di ricambio e set di ricambi per i primi due anni di utilizzo
Spare parts and spare parts set for the first two years of use

N° parte Part No.	Descrizione Description	Numero di pompe Number of pumps							
		1	2	3	4	5	da 6 a 7 from 6 to 7	da 8 a 9 from 8 to 9	Da 10 e oltre 10 and above
210	Albero Shaft	1	1	1	1	2	2	2	20%
230	Girante Impeller	1	1	1	1	2	2	2	20%
135	Piastra di usura Wear plate	1	1	2	2	2	2	2	20%
506	Anello paraspruzzi Deflector	1	1	1	1	2	2	2	20%
400.1	Guarnizioni idrauliche Hydraulic gaskets (Set)	2	4	4	5	6	8	8	80%
400.4									
400.5									
400.6									
400.7									
412.3									
Per pompe con tenute meccaniche For pumps with mechanical seals									
433.1	Tenuta mecca- nica completa (Set) Complete Mecha- nical Seal (Set)	1	2	2	2	3	3	4	40%
433.2									
Per pompe con baderne For pumps with packings glands									
461	Baderne (Set) Packing glands (Set)	2	4	4	6	6	6	8	100%

HD HG

Ricambi e set ricambi start up
Start up spare parts and spare parts set

N° parte Part No.	Descrizione Description	Numero di pompe Number of pumps							
		1	2	3	4	5	dal 6 al 7 from 6 to 7	dal 8 al 9 from 8 to 9	10 e superiori 10 and above
400.1	Guarnizioni idrauliche (Set) Hydraulic gaskets (Set)	2	4	4	5	6	8	8	80%
400.4									
400.5									
400.6									
400.7									
412.3									
Per pompe con tenute meccaniche For pumps with mechanical seals									
433.1	Complete Mechanical Seal (Set)	1	2	2	2	3	3	4	40%
433.2	Complete Mechanical Seal (Set)								
Per pompe con baderne For pumps with packings glands									
461	Baderne (Set) Packing glands (Set)	2	4	4	6	6	6	8	100%

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