

Elettropompe centrifughe sommerse per pozzi da 4'**Centrifuge submersible pump for well of 4'****CONSTRUZIONE**

- Sono elettropompe centrifughe sommerse per pozzi da 4", con giranti radiali o semiassiali, collegate al motore tramite supporto d'aspirazione e giunto meccanico, secondo norme NEMA. Il corpo pompa è serrato mediante tubo di acciaio inox.
- Valvola di non ritorno inserita nel corpo di mandata
 - Supporto di aspirazione e corpo di mandata in ghisa Grigia, esecuzione speciale in acciaio inox
 - Boccola di guida albero in lexan caricato
 - Anelli di usura guida albero e guida giranti particolarmente studiati per la lubrificazione e resistenza alle infiltrazioni di sabbia
 - Albero ampiamente dimensionato in acciaio inox
 - Protezione cavo di alimentazione e griglia di aspirazione in acciaio inox
 - Anelli paracolpi per la protezione delle parti idrauliche in fase di avviamento in acciaio inox

IMPIEGHI

- Adatta per impianti idrici di approvvigionamento e pressurizzazione da pozzi profondi in impieghi:
- Sistema di rifornimenti idrici per usi civili ed industriali
 - Irrigazione a pioggia ed a scorrimento
 - Impianti automatici antincendio UNI 9490 e 10779
 - Impianti di sopraelevazione
 - Applicazione industriale varia

LIQUIDI POMPATI

Chiari non aggressivi, non esplosivi e privi di sostanze solide e fibrose.

DATI DI FUNZIONAMENTO**Pompa**

- Portate fino 21 m³/h
- Prevalenze fino a 413 m
- Diametro massimo di ingombro 98 mm
- Massima profondità di immersione 150 m
- Massima quantità di sabbia 25 g/m³
- Temperatura liquido pompato max +30 °C
- Installazione verticale orizzontale e obliquo
- Attacco filettato G 1 1/4 serie R, G 2 serie S
- Senso di rotazione antiorario visto dalla mandata

Motore

- Di tipo asincrono a due poli raffreddato ad olio
- Flangia attacco NEMA da 4"
- Tensione monofase 220 / 240 V, prevedere condensatore sempre inserito
- Tensione Trifase 380 / 415 V
- Frequenza 50 Hz
- Massima deviazione della tensione nominale +6% -10%
- Avviamenti orari Max 30 equamente distribuiti
- Potenza da 0.5 fino a 7.5 kW
- Cavo in dotazione lunghezza da 1.5 m fino a 4 m
- Grado di protezione motore IP 68
- Isolamento classe B
- Protezione motori con relè termico secondo le norme VDE, classe di scatto (trip) 10 o 10 A / tempo di scatto <10s a 5 x A
- Per altre caratteristiche dei motori vedere la sezione relativa in questo stesso catalogo

CONSTRUCTION

- These are centrifuge submersible pumps for well of 4", with radial or semi-axial impeller, connected to the motor by intake support and mechanical coupling in accordance with norms NEMA. Pump body is tightened by tube in stainless steel.
- Check valve put in the delivery body
 - Intake support and delivery body in gray iron, special run in stainless steel
 - Ferrule bearing that guides the shaft in lexan affected
 - Wear-rings guide shaft and guide impeller particularly studied for lubrication and resistance to the infiltration of sand
 - Shaft amply measured in stainless steel
 - Protection of line cord strong and suction screen in stainless steel
 - Buffer rings for protection of the hydraulic parts in starting stage in stainless steel

USES

- Suitable for waterworks of procurement and pressurization by deep well in uses of:
- System of hydric supplying for civil and industrial uses
 - Irrigation at rain and at slip
 - Automatic fire fighting plants UNI 9490 and 10779
 - Superelevation plants
 - Various industrial appliances

PUMPED LIQUIDS

Clear, not aggressive and not explosive, without solid or fibrous substances

PERFORMANCE DATA**Pump**

- Deliveries up to 21 m³/h
- Heads up to 413 m
- Maximum bore crammed 98 mm
- Maximum depth of immersion 150 m
- Maximum quantity of sand 25 gr/m³
- Maximum temperature of pumped liquid +30°C
- Vertical, horizontal and oblique installation
- Threaded connection G 1 1/4 series R, G 2 series S
- Anticlockwise rotation seen from delivery

Motor

- Asynchronous type with two poles, cooled with oil
- Connection flange NEMA of 4"
- Single-phase tension 220 / 240 V, to expect the condenser always integrated
- Three-phase tension 380 / 415 V
- Frequency 50 Hz
- Maximum deviation of the nominal tension +6% - 10%;
- Maximum hours starting 30 justly distributed
- Power by 0,5 up to 7,5 kW
- Cable in equipment length by 1,5m up to 4m
- Protection's level of motor IP 68
- Class of segregation B
- Protection motors with thermal relay in accordance to norms VDE, class of trip 10 or 10 A / time of trip <10 s to 5 x A
- For other characteristic of motors, take a look to the relative section in this same catalogue

R404 R406 R407 S410 S415

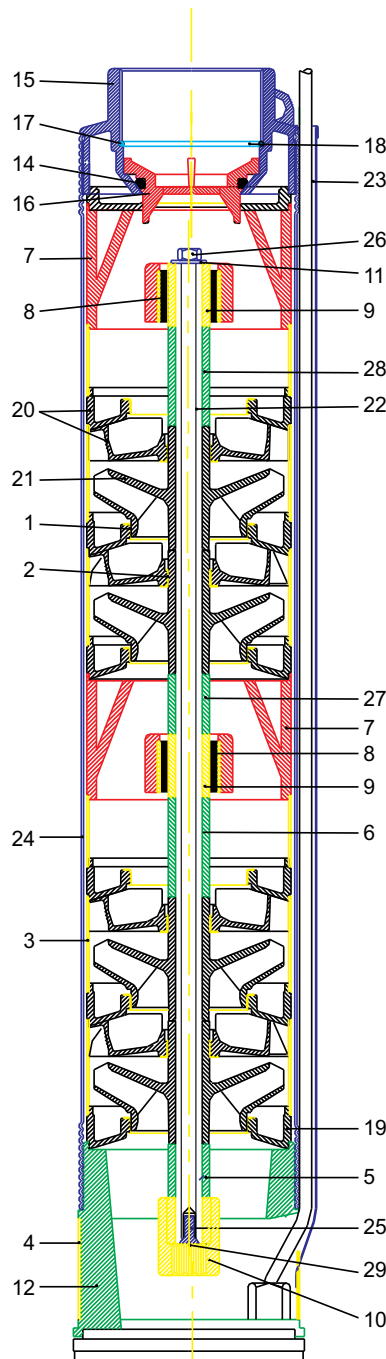
Z. Rif. Z. Ref.	Descrizione Description	Materiale Material
1	Anello di rasamento bocchetta Routh shave ring	X5 Cr Ni 1810
2	Anello di rasamento mozzo Hub shavering	
3	Anello distanziale Spacer ring	
4	Filtro di aspirazione Suction screen	
5	Boccola distanziale Distance ferrule	Policarbonato polycarbonate
6	Boccola distanziale Distance ferrule	
7	Supporto Braket	
8	Cuscinetto a boccola Ferrule bearing	Gomma nitrilica Nitrile rubber
9	Boccola guida Bushing guide	Policarbonato Polycarbonate
10	Giunto Coupling	X20 Cr 13
11	Rondella bloccaggio giranti Impeller lock washer	X5 Cr Ni Mo 1712
12*	Supporto aspirazione Aspiration break	GG 20 Cast iron
13	Rondella reggispira Trust bearing washer	X20 Cr 13
14	Anello OR O-ring	Gomma acrilonica Acrylonitic rubber
15*	Corpo di mandata Delivery body	GG 20 Cast iron
16	Valvola Valve	X20 Cr 13
17	Anello seeger Seeger ring	X10 Cr Ni 1809
18	Rondella valvola Valve washer	Policarbonato Polycarbonate
19	Disco diffusore Diffuser disc	
20	Diffusore completo Complete diffuser	
21	Girante Impeller	
22	Albero Shaft	X10 Cr S 17
23	Ripara cavo Cable protection	X5 Cr Ni 1810
24	Camicia External housing	
25	Bullone Bolt	
26	Bullone Bolt	Policarbonato Polycarbonate
27	Boccola distanziale Distance ferrule	
28	Boccola distanziale Distance ferrule	X20 Cr 13
29	Rondella giunto Washer coupling	

***Esecuzione speciale**

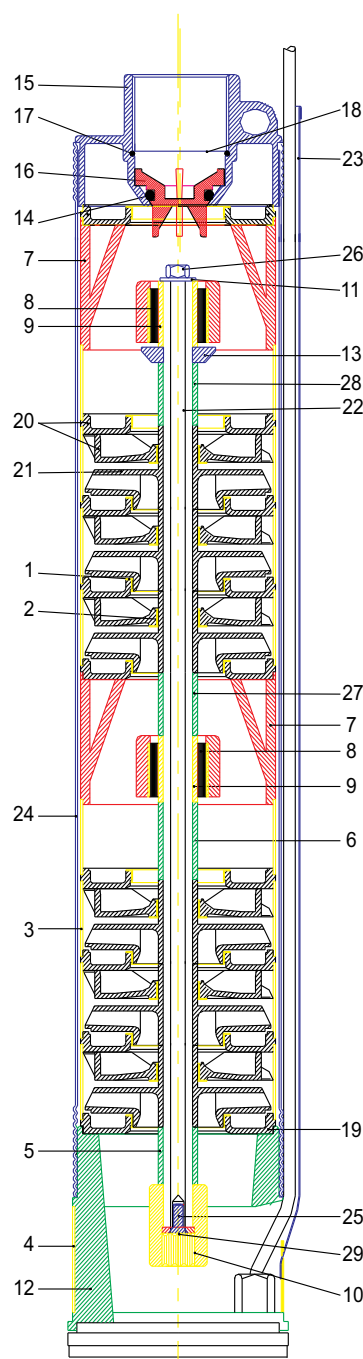
Supporto di aspirazione e corpo di mandata in acciaio inox

***Special execution**

Aspiration braket and delivery body in stainless steel



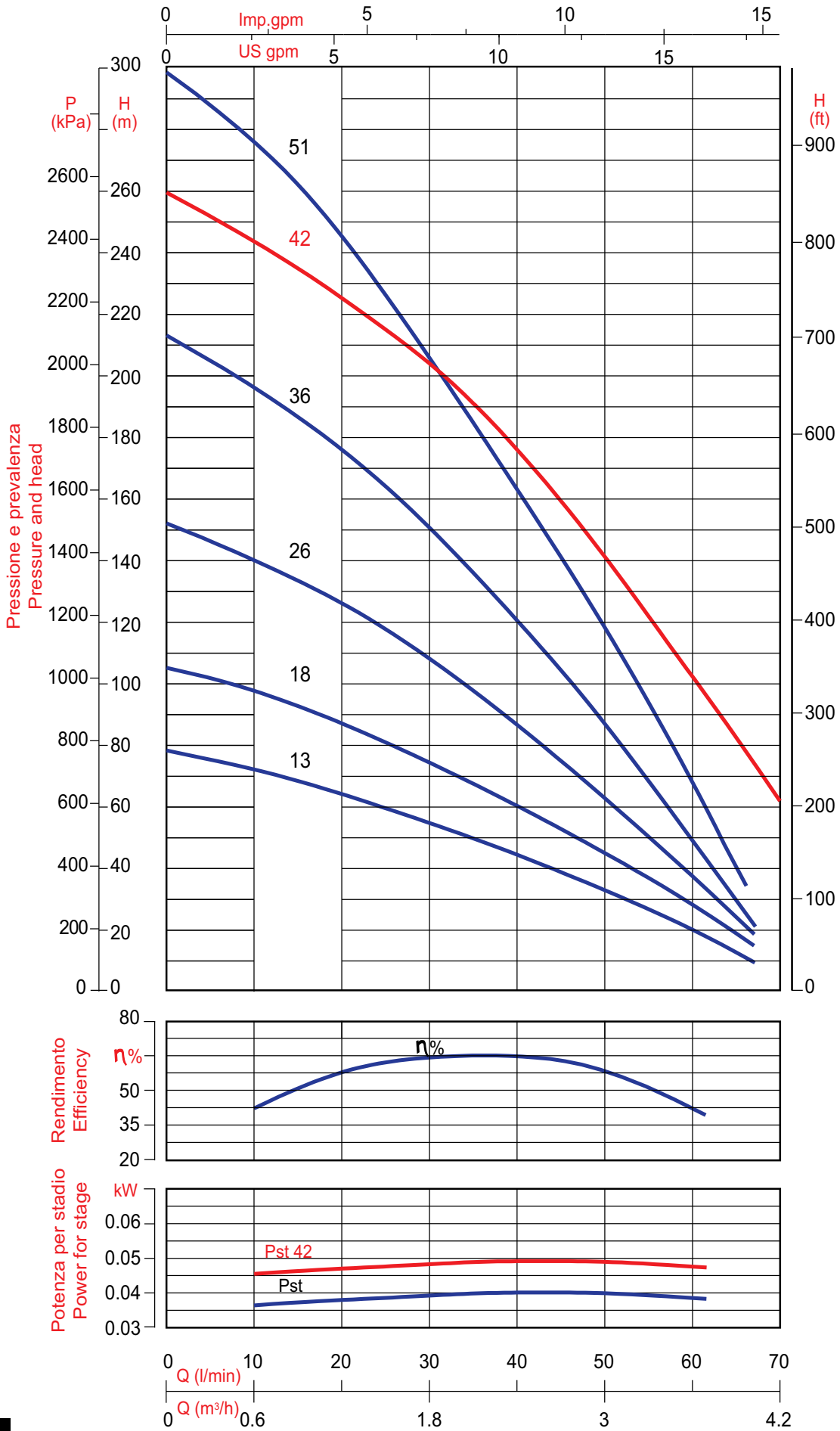
"S410-S415"



"R404-R406-R407"

Curve caratteristiche 2 poli/50Hz

Performance curves 2 poles/50Hz



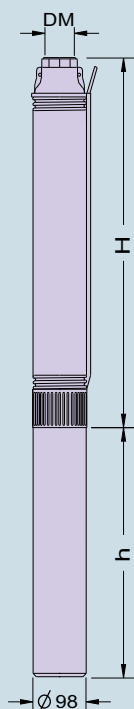
404



2 poli/50Hz

2 poles/50Hz

TIPO - TYPE		DATI FUNZIONAMENTO MOTORE MOTOR OPERATING DATA						DATI IDRAULICI - HYDRAULIC DATA						
MONOFASE SINGLE - PHASE 230 V 50 Hz	TRIFASE THREE - PHASE 400 V 50 Hz	POTENZA POWER		CORRENTE CURRENT		CONDENSATORE CAPACITOR		PORTATA CAPACITY						
		HP	KW	A 1x230 V	A 3x400 V	µF	Vc	Q(l/min) 0	10	20	30	40	50	60
R404-13 07M	R404-13 07T	0.75	0.5	5	1.6	20	450	88	71	64	54	43	32	20
R404-18 10M	R404-18 10T	1	0.75	6.5	2.2	30	450	104	98	87	76	60	43	28
R404-26 15M	R404-26 15T	1.5	1.1	9.4	3.2	40	450	150	140	125	108	88	62	35
R404-36 20M	R404-36 20T	2	1.5	11.2	4.1	50	450	216	198	176	150	120	86	50
R404-42 30M	R404-42 30T	3	2.2	15.1	5.8	70	450	260	244	225	203	175	140	102
R404-51 30M	R404-51 30T	3	2.2	15.1	5.8	70	450	300	277	245	206	164	120	70



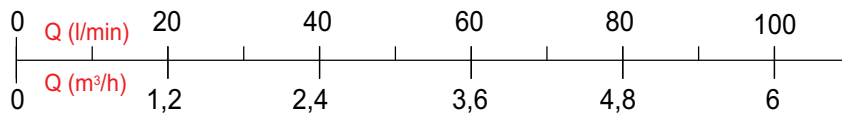
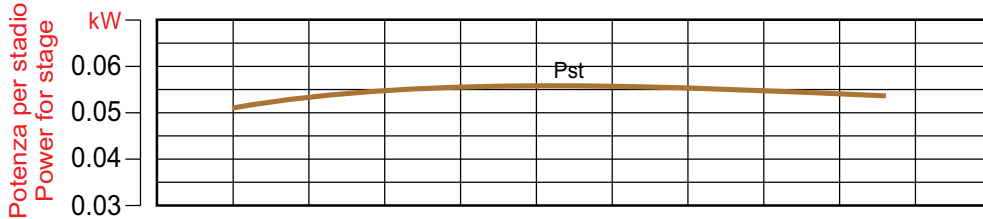
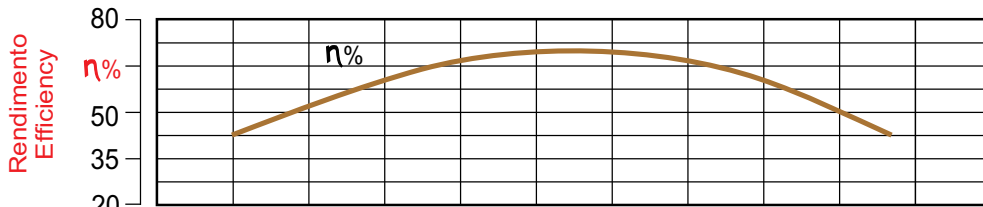
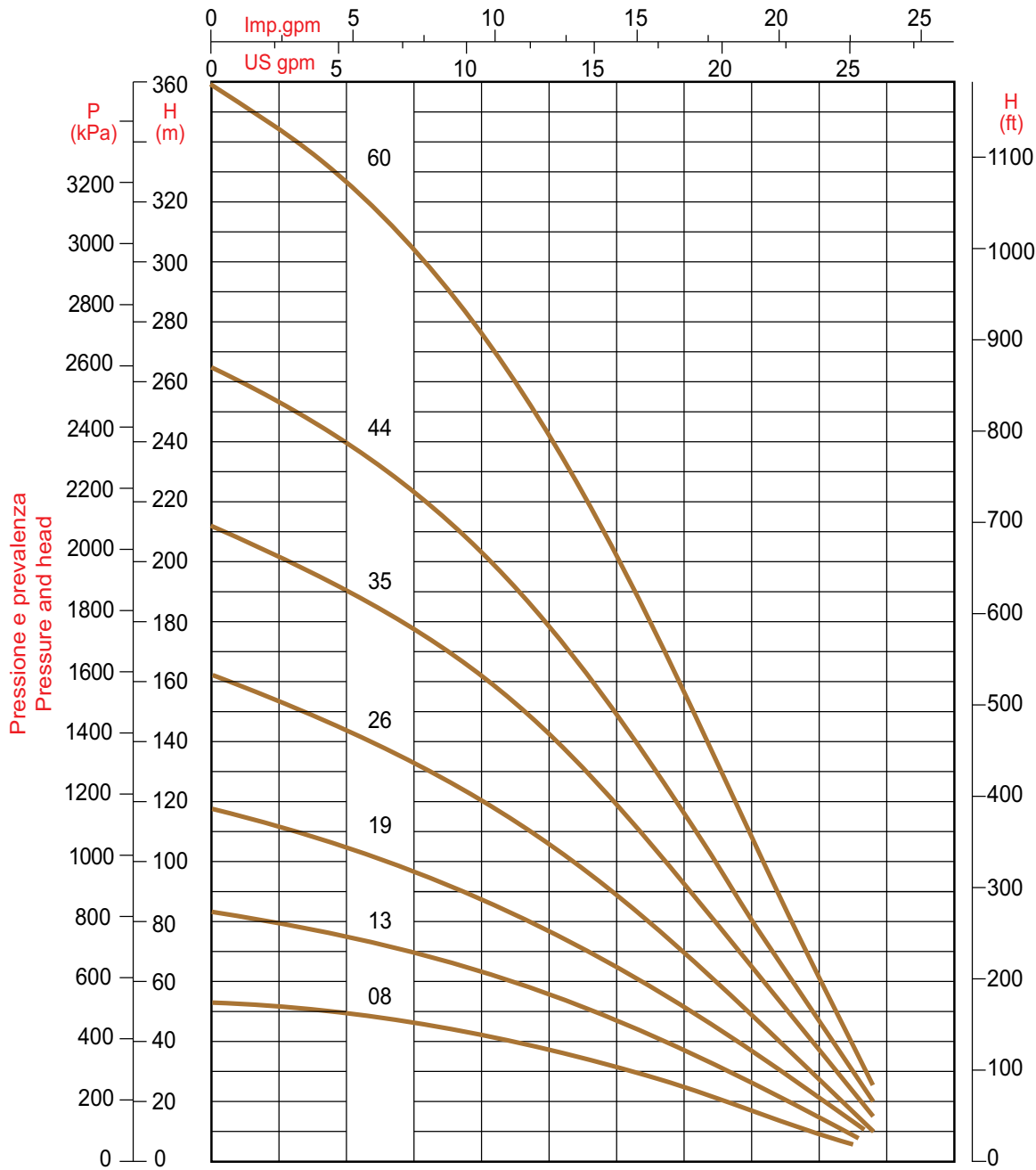
Dimensioni e pesi

Dimensions and weights

TIPO - TYPE		N. STADI STAGES	POMPA PUMP		MOTORE MOTOR 1X230 V		MOTORE MOTOR 3X400 V		DM
MONOFASE SINGLE - PHASE 230 V 50 Hz	TRIFASE THREE - PHASE 400 V 50 Hz		H	kg	h	kg	h	kg	
R404-13 07M	R404-13 07T	13	681	6	375	8.7	345	7.5	G1 1/4
R404-18 10M	R404-18 10T	18	846	7.6	390	9.9	375	9.6	
R404-26 15M	R404-26 15T	26	1190	10.6	440	11.9	395	9.9	
R404-36 20M	R404-36 20T	36	1523	12.8	485	13.7	440	11.5	
R404-42 30M	R404-42 30T	42	1720	14	500	15	485	14.2	
R404-51 30M	R404-51 30T	51	2010	15.7	500	15	485	14.2	

Curve caratteristiche 2 poli/50Hz

Performance Curves 2 poles/50Hz



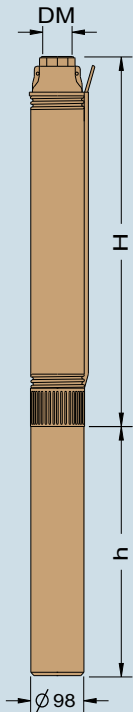
R4006



2 poli/50Hz

2 poles/50Hz

TIPO - TYPE		DATI FUNZIONAMENTO MOTORE MOTOR OPERATING DATA						DATI IDRAULICI - HYDRAULIC DATA						
MONOFASE SINGLE - PHASE 230 V 50 Hz	TRIFASE THREE - PHASE 400 V 50 Hz	POTENZA POWER		CORRENTE CURRENT		CONDENSATORE CAPACITOR		PORTATA CAPACITY						
		HP	kW	A 1x230 V	A 3x400 V	μF	Vc	Q(l/min) 0	30	40	50	60	70	90
								Q(m³/h) 0	1.8	2.4	3	3.6	4.2	5.4
								H=prevalenza totale in m.c.a. H=total head w.c.m.						
R406-08 07M	R406-08 07T	0.75	0.5	5	1.6	20	450	53	46	42	37	32	25	9
R406-13 10M	R406-13 10T	1	0.75	6.5	2.2	30	450	83	70	63	56	48	37	15
R406-19 15M	R406-19 15T	1.5	1.1	9.4	3.2	40	450	117	99	88	78	65	52	24
R406-26 20M	R406-26 20T	2	1.5	11.2	4.1	50	450	162	134	121	107	91	71	28
R406-35 30M	R406-35 30T	3	2.2	15.1	5.8	70	450	212	179	163	144	122	94	38
	R406-44 40T	4	3		7.2			265	224	204	179	150	116	48
	R406-60 50T	5.5	4		9.5			359	305	278	244	205	158	60



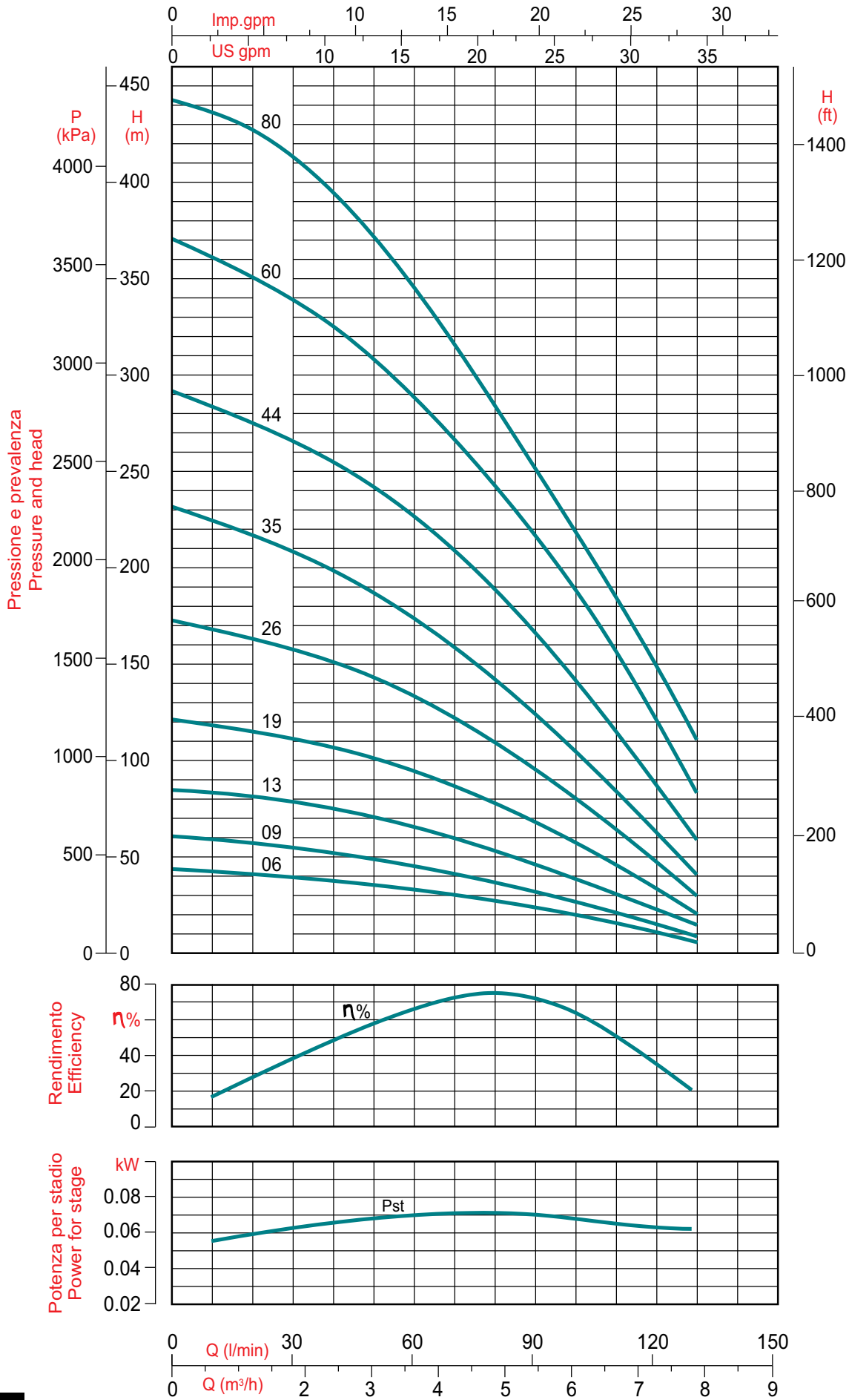
Dimensioni e pesi

Dimensions and weights

TIPO - TYPE		N. STADI STAGES	POMPA PUMP		MOTORE MOTOR 1x230 V		MOTORE MOTOR 3x400 V		DM
MONOFASE SINGLE - PHASE 230 V 50 Hz	TRIFASE THREE - PHASE 400 V 50 Hz		H	kg	h	kg	h	kg	
R406- 08 07M	R406-08 07T	8	518	5.4	375	8.7	345	7.5	G1 1/4
R406-13 10M	R406-13 10T	13	680	6.6	390	9.9	375	9.6	
R406-19 15M	R406-19 15T	19	879	7.6	440	11.9	395	10.9	
R406-26 20M	R406-26 20T	26	1195	10.6	485	13.7	440	11.5	
R406-35 30M	R406-35 30T	35	1489	12	500	15	485	14.2	
	R406-44 40T	44	1879	14.5			560	18.8	
	R406-60 50T	60	2477	18.5			630	21	

Curve caratteristiche 2 poli/50Hz

Performance curves 2 poles/50Hz



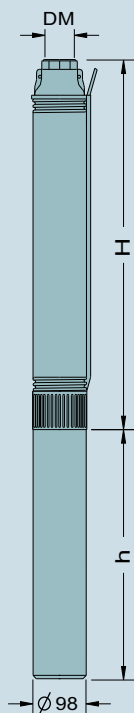
R407



2 poli/50Hz

2 poles/50Hz

TIPO - TYPE		DATI FUNZIONAMENTO MOTORE MOTOR OPERATING DATA						DATI IDRAULICI - HYDRAULIC DATA						
MONOFASE SINGLE - PHASE 230 V 50 Hz	TRIFASE THREE - PHASE 400 V 50 Hz	POTENZA POWER		CORRENTE CURRENT		CONDENSATORE CAPACITOR		PORTATA - CAPACITY						
		HP	kW	A 1x230 V	A 3x400 V	μF	Vc	Q(l/min) 0	30	50	70	90	110	130
								Q(m³/h) 0	1.8	3	4.2	5.4	6.6	7.8
								H=prevalenza totale in m.c.a. H=total head w.c.m.						
R407-06 07M	R407-06 07T	0.75	0.5	5	1.6	20	450	44	41	37	32	25	21	6
R407-09 10M	R407-09 10T	1	0.75	6.5	2.2	30	450	61	57	50	42	33	22	9
R407-13 15M	R407-13 15T	1.5	1.1	9.4	3.2	40	450	85	82	71	61	48	31	15
R407-19 20M	R407-19 20T	2	1.5	11.2	4.1	50	450	121	112	102	86	67	47	20
R407-26 30M	R407-26 30T	3	2.2	15.1	5.8	70	450	173	159	145	123	96	66	30
	R407-35 40T	4	3		7.2			232	211	188	159	126	85	41
	R407-44 50T	5.5	4		9.5			292	268	244	211	168	116	59
	R407-60 75T	7.5	5.5		13.4			371	343	311	269	220	164	88
	R407-80 100T	10	7.5		17			443	413	371	314	246	174	99



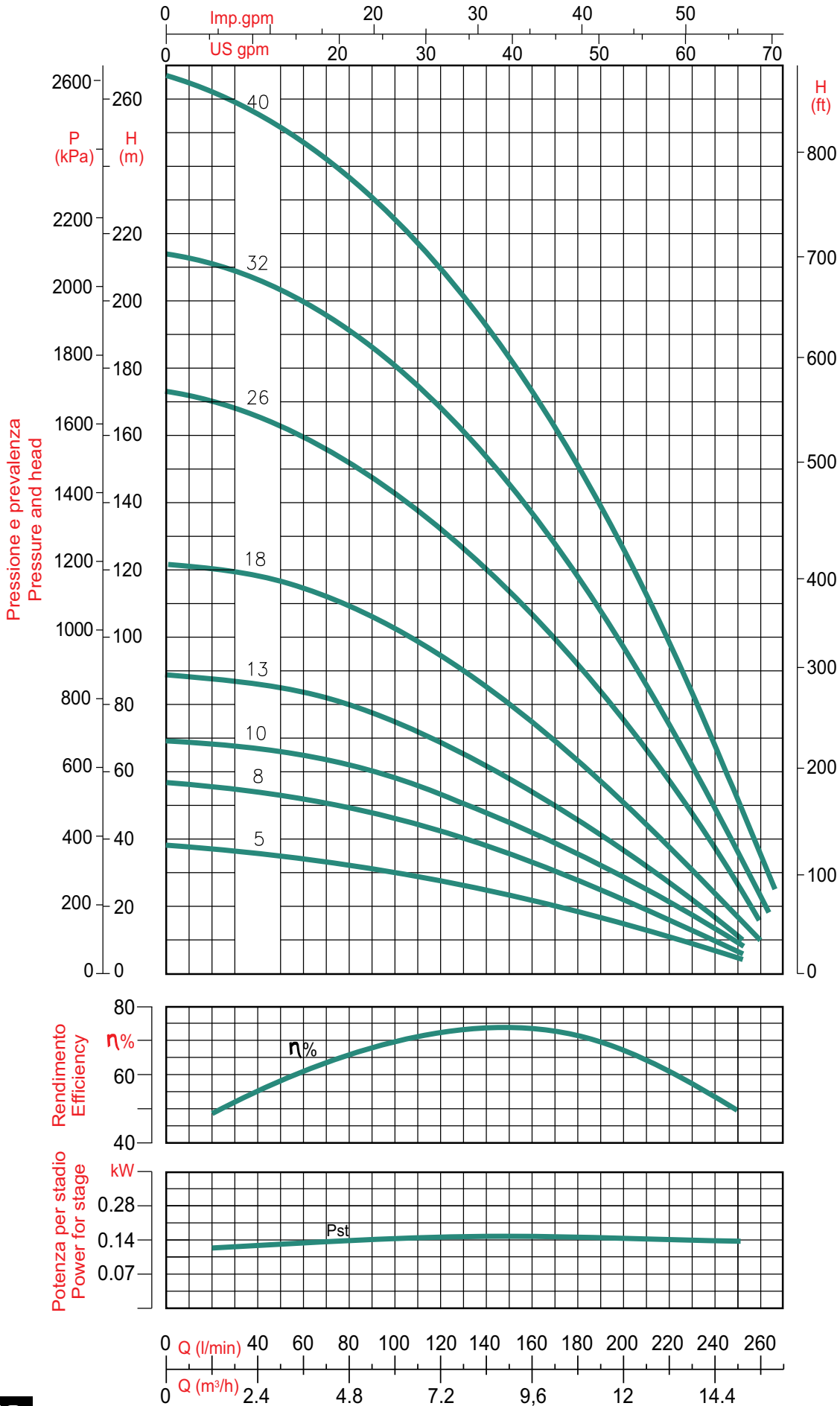
Dimensioni e pesi

Dimensions and weights

TIPO - TYPE		N. STADI STAGES	POMPA PUMP		MOTORE MOTOR 1X230 V		MOTORE MOTOR 3X400 V		DM
MONOFASE SINGLE - PHASE 230 V 50 Hz	TRIFASE THREE - PHASE 400 V 50 Hz		H	kg	h	kg	h	kg	
R407-06 07M	R407-06 07T	06	452	4.5	375	7.5	345	7.5	G1 1/4
R407-09 10M	R407-09 10T	09	547	5.4	390	9.9	375	9.6	
R407-13 15M	R407-13 15T	13	683	6.6	440	11.9	395	10.9	
R407-19 20M	R407-19 20T	19	879	7.6	485	13.8	440	11.5	
R407-26 30M	R407-26 30T	26	1195	10	500	15	485	14.2	
	R407-35 40T	35	1489	12			560	18.8	
	R407-44 50T	44	1879	14.4			630	21	
	R407-60 75T	60	2477	18.5			685	25.7	
	R407-80 100T	80	3152	25.5			780	29	

Curve caratteristiche 2 poli/50Hz

Performance curves 2 poles/50Hz



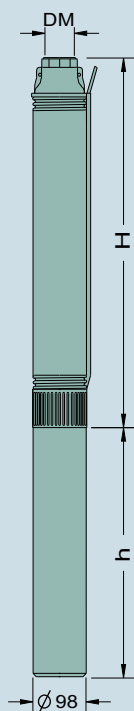
S410



2 poli/50Hz

2 poles/50Hz

TIPO - TYPE		DATI FUNZIONAMENTO MOTORE MOTOR OPERATING DATA						DATI IDRAULICI - HYDRAULIC DATA						
MONOFASE SINGLE - PHASE 230 V 50 Hz	TRIFASE THREE - PHASE 400 V 50 Hz	POTENZA POWER		CORRENTE CURRENT		CONDENSATORE CAPACITOR		PORTATA - CAPACITY						
		HP	kW	A 1x230 V	A 3x400 V	μF	Vc	Q(l/min)0	50	90	130	170	210	250
								Q(m³/h)0	3	5.4	7.8	10.2	12.6	15
								H=prevalenza totale in m.c.a. H=total head w.c.m.						
S410-05 10M	S410-05 10T	1	0.75	6.5	2.2	30	450	37	35	31	26	19	13	4
S410-08 15M	S410-08 15T	1.5	1.1	9.4	3.2	40	450	56	53	47	41	13	18	6
S410-10 20M	S410-10 20T	2	1.5	11.2	4.1	50	450	67	64	59	49	36	24	8
S410-13 30M	S410-13 30T	3	2.2	15.1	5.8	70	450	89	84	77	65	49	32	12
	S410-18 40T	4	3		7.2			122	116	106	89	68	43	16
	S410-26 50T	5.5	4		9.5			172	162	147	126	98	66	27
	S410-32 75T	7.5	5.5		13.4			214	202	185	161	127	86	36
	S410-40 100T	10	7.5		17			266	250	229	199	161	111	51



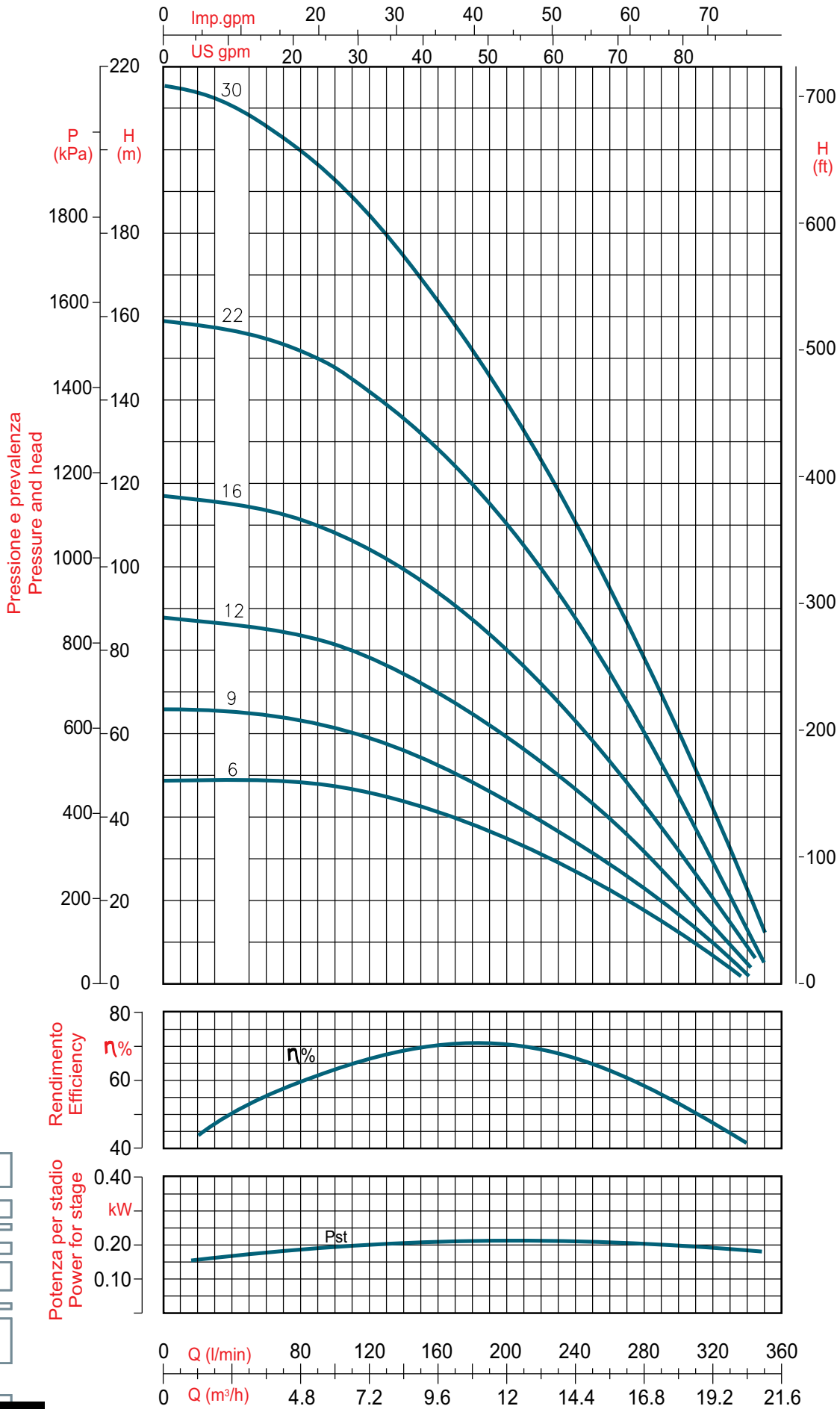
Dimensioni e pesi

Dimensions and weights

TIPO - TYPE		N. STADI STAGES	POMPA PUMP		MOTORE MOTOR 1X230 V		MOTORE MOTOR 3X400 V		DM
MONOFASE SINGLE - PHASE 230 V 50 Hz	TRIFASE THREE - PHASE 400 V 50 Hz		H	kg	h	kg	h	kg	
S410-05 10M	S410-05 10T	5	536	5.3	390	9.9	375	9.6	G 2
S410-08 15M	S410-08 15T	8	689	5.8	440	11.9	395	9.9	
S410-10 20M	S410-10 20T	10	781	6.6	485	13.7	440	11.5	
S410-13 30M	S410-13 30T	13	944	7.2	500	15	485	14.2	
	S410-18 40T	18	1289	9.5			560	18.8	
	S410-26 50T	26	1696	12			630	21	
	S410-32 75T	32	2002	13.8			685	25.7	
	S410-40 100T	40	2504	16.9			780	29	

Curve caratteristiche 2 poli/50Hz

Performance curves 2 poles/50Hz



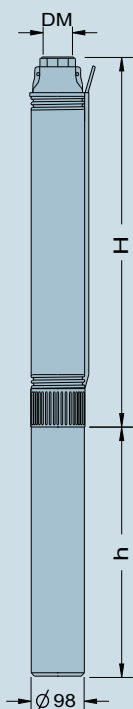
S415



2 poli/50Hz

2 poles/50Hz

TIPO - TYPE		DATI FUNZIONAMENTO MOTORE MOTOR OPERATING DATA						DATI IDRAULICI - HYDRAULIC DATA						
MONOFASE SINGLE - PHASE 230 V 50 Hz	TRIFASE THREE - PHASE 400 V 50 Hz	POTENZA POWER		CORRENTE CURRENT		CONDENSATORE CAPACITOR		PORTATA CAPACITY						
		HP	kW	A 1x230 V	A 3x400 V	μF	Vc	Q(l/min)0	100	150	200	250	300	350
S415-06 20M	S415-06 20T	2	1.5	11.2	4.1	50	450	48	47	45	35	24	14	
S415-09 30M	S415-09 30T	3	2.2	15.1	5.8	70	450	66	60	55	47	33	18	1
	S415-12 40T	4	3		7.8			88	82	73	59	44	26	3
	S415-16 50T	5.5	4		9.5			117	109	98	79	57	33	4
	S415-22 75T	7.5	5.5		13.4			159	148	134	110	80	47	6
	S415-30 100 T	10	7.5		17			215	194	170	140	103	60	13



Dimensioni e pesi

Dimensions and weights

TIPO - TYPE		N. STADI STAGES	POMPA PUMP		MOTORE MOTOR 1X230 V		MOTORE MOTOR 3X400 V		DM
MONOFASE SINGLE - PHASE 230 V 50 Hz	TRIFASE THREE - PHASE 400 V 50 Hz		H	kg	h	kg	h	kg	
S415-06 20M	S415-06 20T	6	483	6.4	485	13.7	440	11.5	G 2
S415-09 30M	S415-09 30T	9	710	6.6	500	15	485	14.2	
	S415-12 40T	12	893	7			560	18.8	
	S415-16 50T	16	1196	9.8			630	21	
	S415-22 75T	22	1501	10.8			685	25.7	
	S415-30 100 T	30	1910	14.5			780	29	