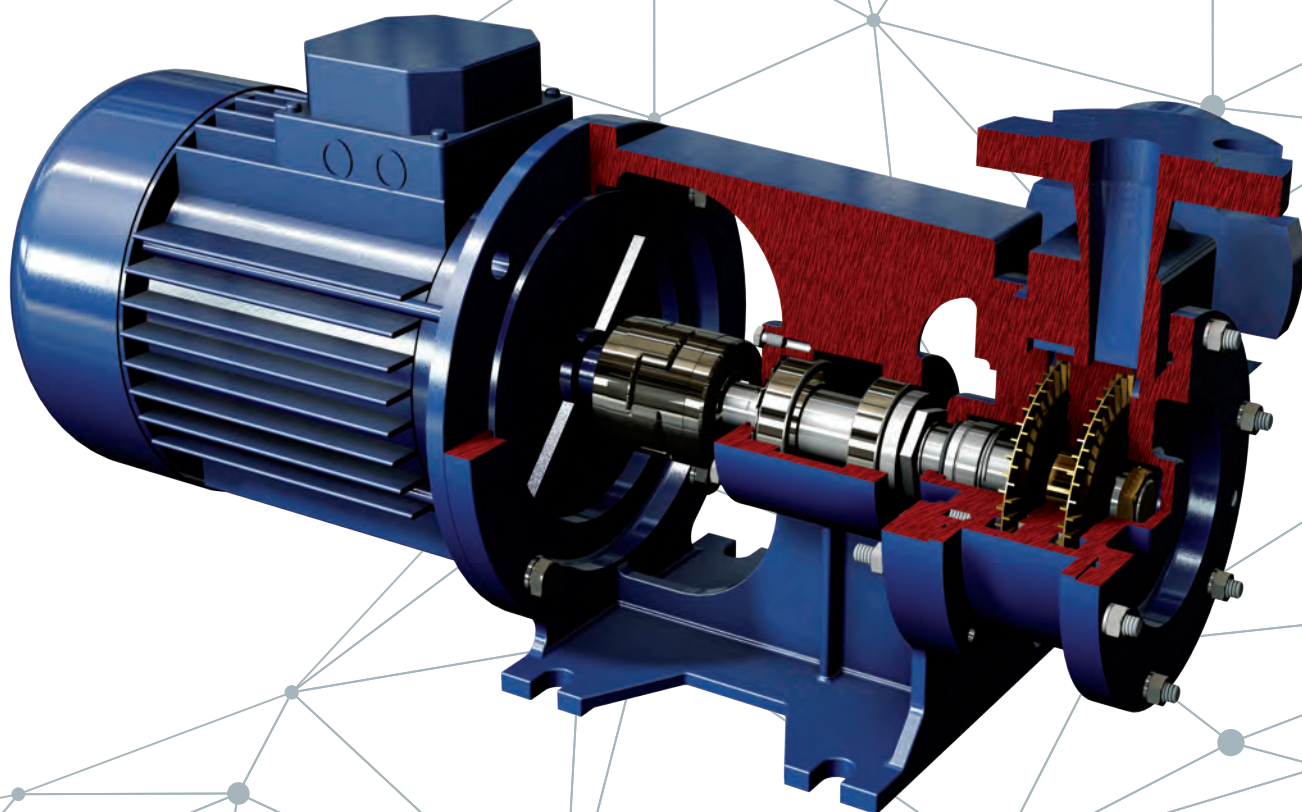


RAM

PERIFERICA MULTISTADIO
MULTISTAGE PERIPHERAL



RAM.D



IMPIEGHI:

Le pompe della serie RAM.D - RAM.E sono adatte per liquidi limpidi senza solidi. Adatte per alimentazione di caldaie a vapore, impianti di flottazione, per servizio continui ad uso industriale, per impianti di lavaggio e ovunque siano richieste basse portate e alte pressioni.

FUNZIONAMENTO:

Le pompe della serie RAM.D - RAM.E sono adatte per alte prevalenze anche a basse portate. Gli stadi che compongono la pompa contengono due giranti periferiche a pale radiali. La forma delle giranti e la costruzione multistadio consentono a queste pompe di trasportare vapore, aria e gas assieme al liquido. Il contenuto massimo di gas è circa il 15% del volume. L'aspirazione a doppio ingresso consente un buon equilibrio idraulico e il sistema di regolazione assiale albero-giranti garantisce che non ci sia alcun contatto tra giranti, corpo e diffusore.

FORME COSTRUTTIVE:

RAM.E: a supporto indipendente con cuscinetti lubrificati a grasso. Motore elettrico standard IEC (B5 - flangiato). Pompa e motore sono accoppiati tramite giunto elastico.

RAM.D: monoblocco con motore IEC ad asse speciale.

LIMITI D'IMPIEGO:

Temperatura massima 105°C (acqua) con materiali standard. A richiesta sono disponibili tenute e guarnizioni speciali adatta fino a 120°C in funzionamento continuo. Pressione massima di lavoro 18 BAR - Pressione di progetto 25 BAR.

MATERIALI STANDARD:

Corpo e diffusore in ghisa EN 1561- GJL 25, albero in AISI 420, guarnizioni in EPDM, giranti in ottone.

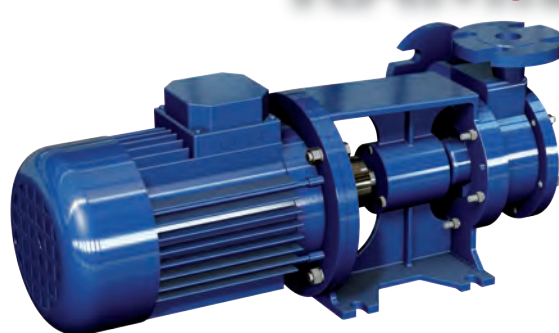
MATERIALI SPECIALI:

Albero in AISI 316, giranti in AISI 316 (disponibili solo nei modelli 14-15-17), O.ring in viton e guarnizioni piane in Sil.C.

TENUTE SULL' ALBERO:

- Standard: tenuta meccanica ceramica/grafite B/epdm (acqua max 105°C)
- A richiesta: tenuta meccanica ceramica/grafite Z/epdm (acqua max 120°C) o altri materiali in funzione del liquido pompato.

RAM.E



USE:

RAM.D - RAM.E pump type are suitable for clean liquids without solid parts in suspension. They are used in boiler feeding, washing plants, flotation plants in waste water treatment, in continuous duty in industries and everywhere low capacity and high pressure are required.

WORKING SYSTEM:

RAM.D - RAM.E pumps type are suitable to high pressure even at low capacity. The pump is composed of stages which contain two peripheral impellers with radial blades. The particular impeller shape and the multistage execution allow these pumps to convey steam, air and gas along with the liquid. The maximum gas ratio is about 15% of the pumped liquid. The double inlet suction system allow a good hydraulic

balance and the axially adjustable shaft-impellers system guarantee there is no contact among impellers, casing and diffuser.

EXECUTIONS:

RAM.E: independent grease lubricated bearing system. IEC standard electric motor (B5 - flanged - shape). Pump and motor are coupled with a flexible coupling.

RAM.D: close coupled with extended shaft IEC motors.

WORKING LIMITS:

Max working temperature 105°C (water) with standard materials. On demand, are available special seals and gaskets suitable for 120°C in continuous duty. Maximum working pressure 18 BAR. Design pressure 25 BAR.

STANDARD MATERIALS:

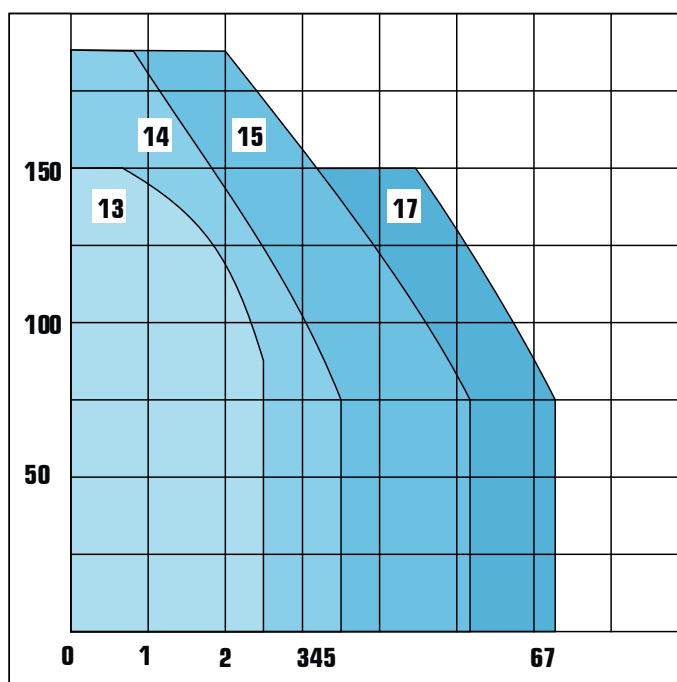
Casing and diffusers in cast iron EN 1561- GJL 25, shaft in AISI 420, gasket in EPDM, impellers in brass.

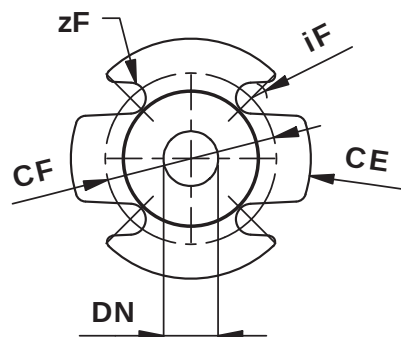
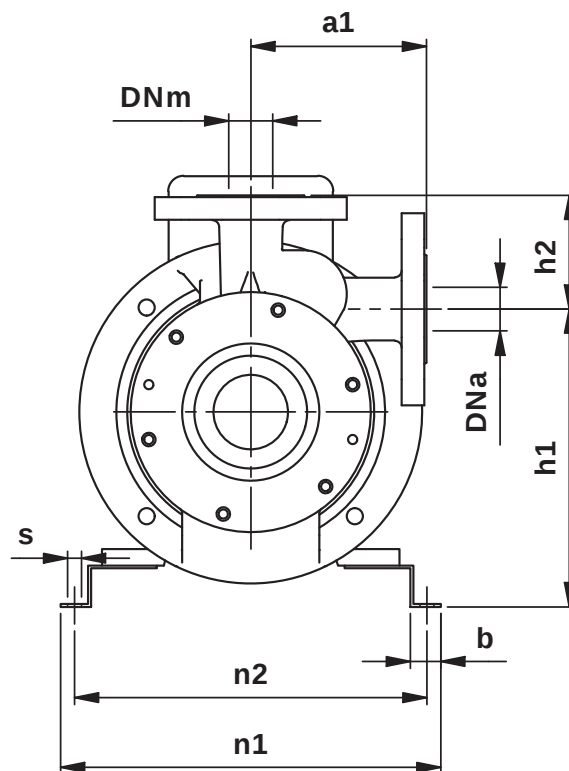
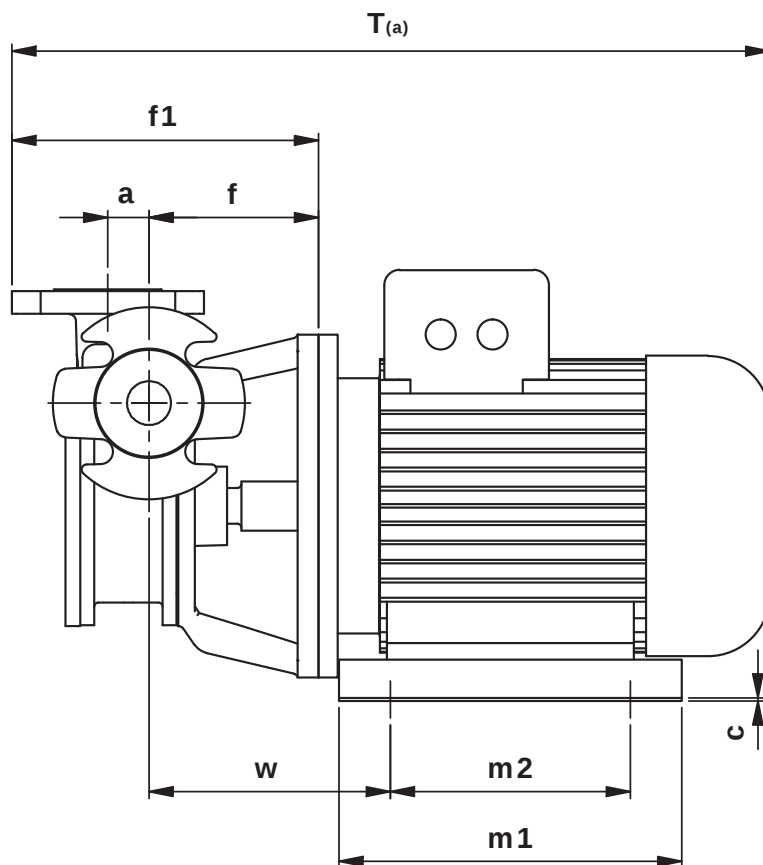
SPECIAL MATERIALS:

Shaft in AISI 316, impellers in AISI 316 (only available for size 14-15-17), viton O.ring and Sil.C flat gasket.

SHAFT SEALS:

- Standard: mechanical seal ceramic/carbon B/epdm (water max 105°C)
- On request: mechanical seal ceramic/carbon Z/epdm (water max 120°C) or other materials according to the pumped liquid.





Dimensioni Flange / Flange Dimensions
(PN 25 EN 1092-2)

DNa / DNm	CE	CF	zF	iF
32	140	100	4	18

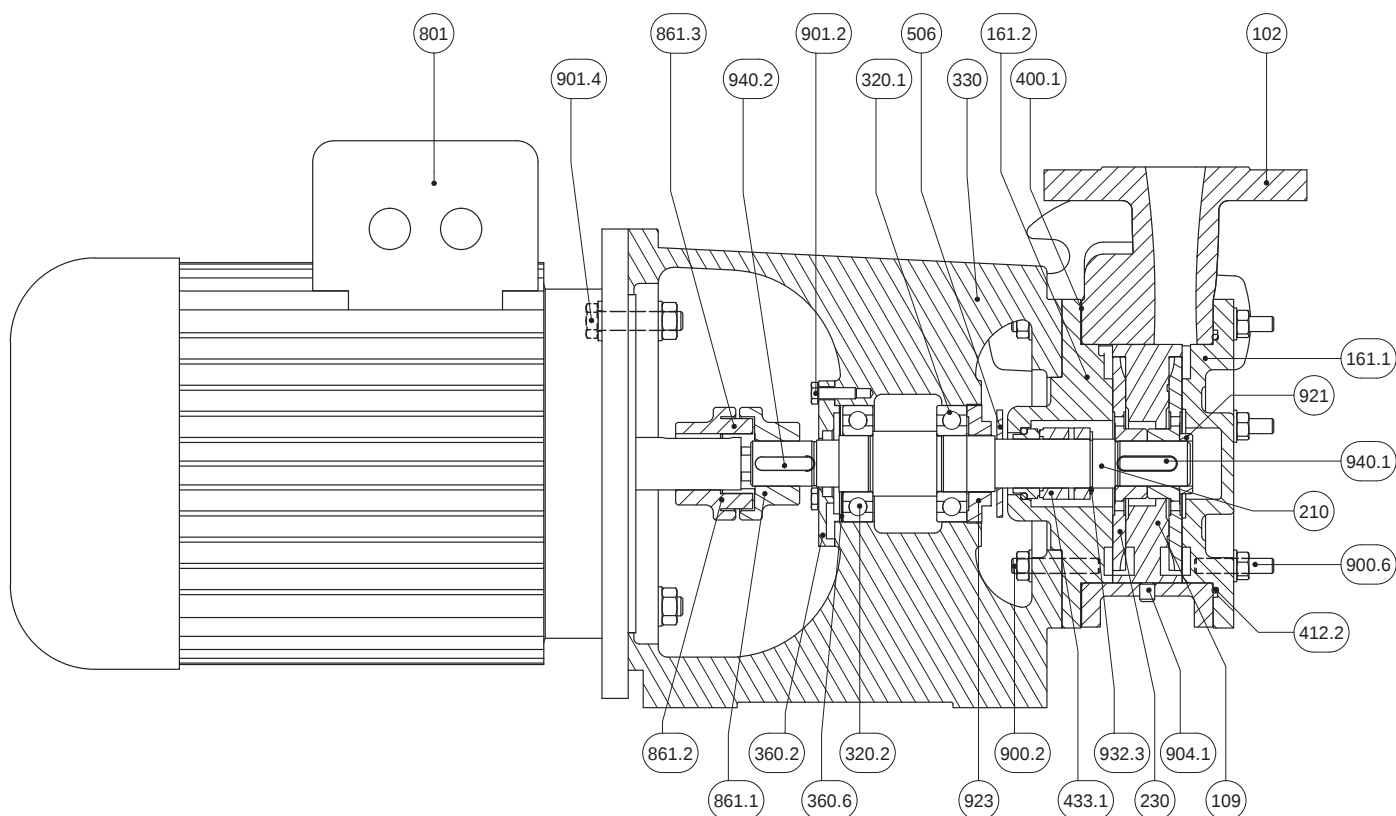
ACCOPPIAMENTO POTENZA - POLARITÀ / GRANDEZZA MOTORE
POWER - POLARITY / MOTOR SIZE COUPLING

	GRAND.	71	80	80	90S	90L	100L
2POLI	kW	0,55	0,75	1,1	1,5	2,2	3
4POLI	GRAND.	80	80	90S	90L	100L	100L
	kW	0,55	0,75	1,1	1,5	2,2	3
6POLI	GRAND.	80	90S	90L	100L		
	kW	0,55	0,75	1,1	1,5		

Taglia Size	Motore Elettrico IEC Motor	DIMENSIONI - DIMENSION [mm] Pompa - Pumps																Peso ^(a) Weight	
		DNa	DNm	a	a1	f	f1	h1	h2	m1	m2	n1	n2	s	b	w	T(a)	Kg	
13	90	32	32	30	128	118	217	185	84	230	135	211	191	10	22	180	553	34	
14	100	32	32	30	128	123	223	205	84	250	175	247	227	10	22	176	598	44	
15	100	32	32	30	128	123	223	205	84	250	175	247	227	10	22	176	598	53	

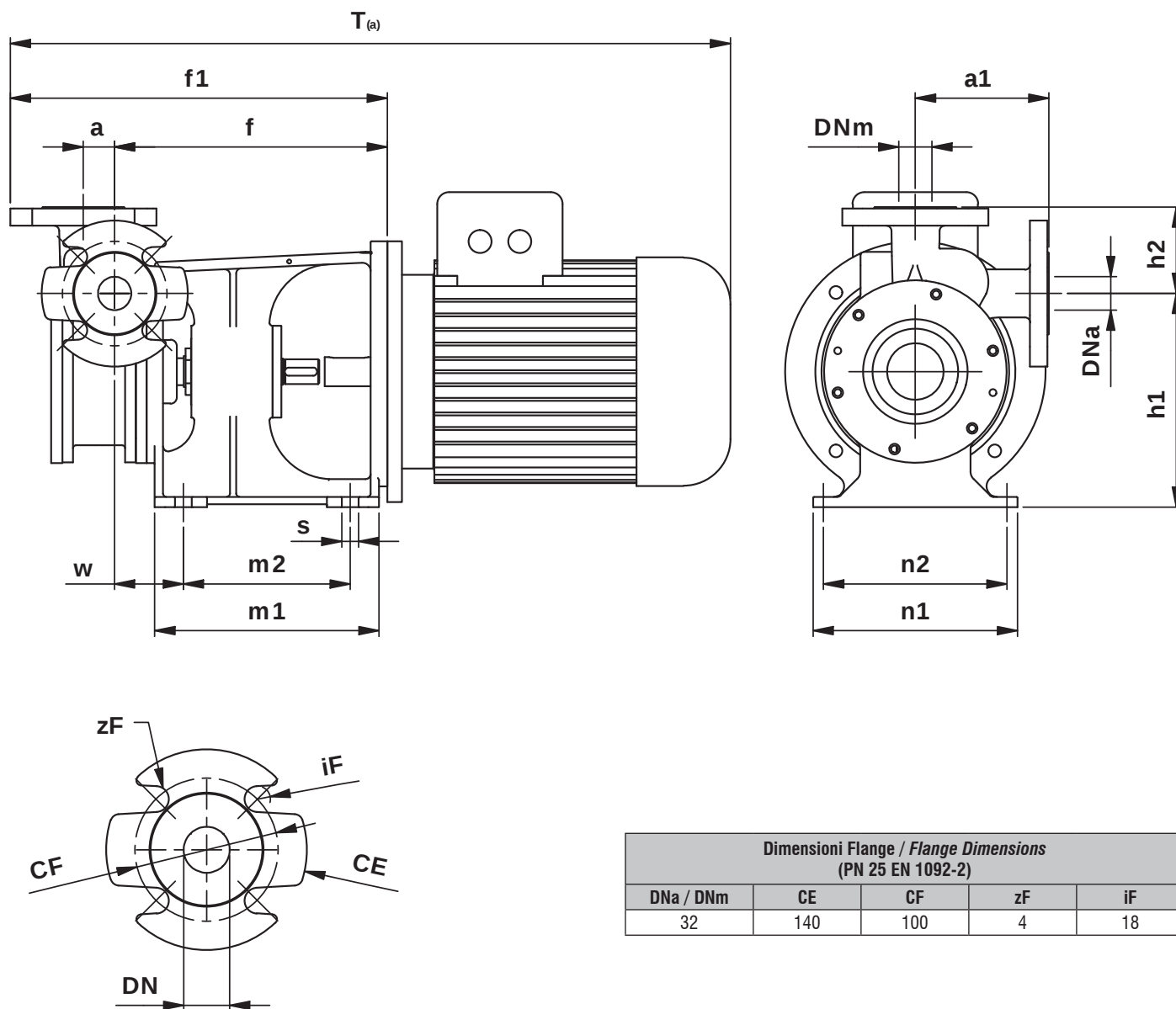
Quote e pesi suscettibili di variazione
Dimensions and weights are subject to variations

^(a) Quota indicativa può variare in funzione della marca del motore
Not binding dimension that can change according to motor brand



N.	DESCRIZIONE	DESCRIPTION
102	Corpo	Casing
109	Elemento diffusore	Interstage difuser
161.1	Coperchio del corpo l.o.c.	Casing cover N.D.S.
161.2	Coperchio del corpo l.c.	Casing cover D.S.
210	Albero	Shaft
230	Girante	Impeller
320.1	Cuscinetto a sfere l.o.c.	Ball bearing N.D.S.
320.2	Cuscinetto a sfere l.c.	Ball bearing D.S.
330	Supporto	Bearing housing
360.2	Coperchio cuscinetto l.c.	Bearing cover D.S.
360.6	Molla di compensazione	Compensation sping
412.2	O-ring	O-ring
400.1	Guarnizione corpo	Casign gasket
433.1	Tenuta Meccanica	Mechanical seal
506	Paraspruzzi	Deflector

N.	DESCRIZIONE	DESCRIPTION
801	Motore elettrico	Electric motor
861.1	Semigiunto lato pompa	Half coupling pump side
861.2	Semigiunto lato motore	Half coupling motor side
861.3	Elastomero giunto	Coupling elastomer
900.2	Prigioniero con dado	Stud with nut
900.6	Prigioniero con dado	Stud with nut
901.2	Vite T.E.	Hex head screw
901.4	Vite T.E.	Hex head screw
904.1	Grano	Screw
921	Ghiera	Impeller nut
923	Ghiera cuscinetto	Bearing locking nut
932.3	Anello di sicurezza albero	Shaft circlip
940.1	Linguetta girante	Impeller key
940.2	Linguetta giunto	Coupling key



Dimensioni Flange / Flange Dimensions
(PN 25 EN 1092-2)

DNa / DNm	CE	CF	zF	iF
32	140	100	4	18

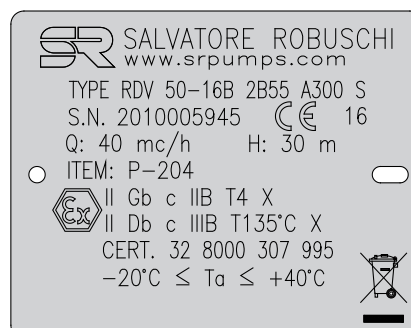
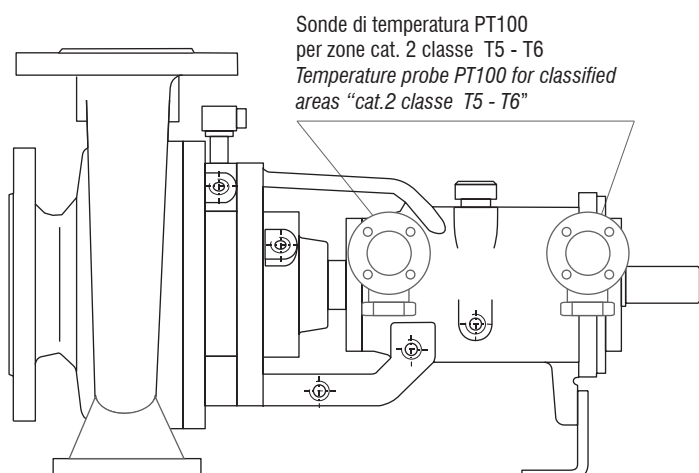
ACCOPPIAMENTO POTENZA - POLARITÀ / GRANDEZZA MOTORE
POWER - POLARITY / MOTOR SIZE COUPLING

	GRAND.	71	80	80	90S	90L	100L
	kW	0,55	0,75	1,1	1,5	2,2	3
2POLI	GRAND.	80	80	90S	90L	100L	100L
	kW	0,55	0,75	1,1	1,5	2,2	3
4POLI	GRAND.	80	90S	90L	100L		
	kW	0,55	0,75	1,1	1,5		

Taglia Size	Motore Elettrico IEC Motor	DIMENSIONI - DIMENSION [mm] Pompa - Pumps															Peso ^(a) Weight
		DNa	DNm	a	a1	f	f1	h1	h2	m1	m2	n1	n2	s	w	T _(a)	Kg
14	100	32	32	30	128	261	316	205	84	250	175	247	227	10	176	736	49
15	100	32	32	30	128	261	316	205	84	250	175	247	227	10	176	736	58
17	100	32	32	30	128	261	316	205	84	250	175	247	227	10	176	736	70

Quote e pesi suscettibili di variazione
Dimensions and weights are subject to variations

^(a) Quota indicativa può variare in funzione della marca del motore
Not binding dimension that can change according to motor brand



Gruppi / Categorie / Zone Groups / Categories / Zone

Gruppo I (miniére, caverne - gas/polveri) Group I (Mines, caves - Gas / dust)		Gruppo II (altre atmosfere esplosive - gas/polveri) Group II (Other explosive atmospheres - Gas / dust)					
Categoria Category M1	Categoria Category M2	Categoria - Category 1 (fornitura non possibile) (Supply not possible)		Categoria - Category 2		Categoria - Category 3	
(fornitura non possibile) (Supply not possible)		G (gas) (Zona - zone 0)	D (polveri - dust) (Zona - zone 20)	G (gas) (Zona - zone 1)	D (polveri - dust) (Zona - zone 21)	G (gas) (Zona - zone 2)	D (polveri - dust) (Zona - zone 22)
		Per equipaggiamenti che prevedono un livello di protezione molto alto dove sia altamente probabile avere atmosfera esplosiva For equipments with a very high protection level, where the explosive atmosphere is very probable		Per equipaggiamenti che prevedono un livello di protezione alto dove sia possibile avere atmosfera esplosiva For equipments with a high protection level, where the explosive atmosphere is possible		Per equipaggiamenti che prevedono un livello di protezione normale dove sia di rado possibile avere atmosfera esplosiva For equipments with a normal protection level, where perhaps the explosive atmosphere is possible	

Classe di temperatura fissata dalla normativa e classe Tx della pompa Classe of temperature fixed by normative and pump's Tx classe

La classe di temperatura "Tx" della pompa è data dalla temperatura maggiore fra quella del liquido pompato e quella del liquido presente nelle linee ausiliarie (flussaggi, riscaldamento)

The pump's "Tx" classe of temperature is fixed by the max between the temperature of the pumped liquid and the temperature of the auxiliar liquid (heating lines)

Classe di temperatura della zona Zone's temperature classe	Max temperatura superficiale ammessa dalla normativa Higher surface temperature admitted by the normative °C	Temperatura del liquido pompato fino a Pumped liquid's temperature until °C	Temperatura del liquido ausiliario fino a Auxiliar liquid's temperature until °C	La classe di temperatura della pompa è Pump's temperature classe Tx
T6	85	55	80	T6 ⁽²⁾
T5	100	70	95	T5 ⁽²⁾
T4	135	105	130	T4
T3	200	170	195	T3
T2	300	265	290	T2
T1	450	415	440	T1

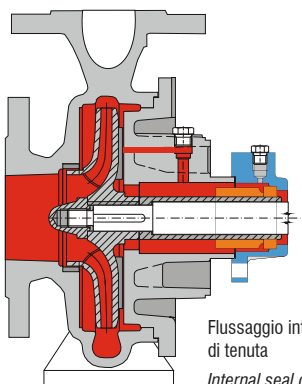
⁽²⁾In zone classificate "cat.2 e classi di temperatura T5 e T6" la pompa viene fornita con sonde di controllo della temperatura sui cuscinetti, da tarare rispettivamente a 95°C (T5) e 80°C (T6). Le pompe senza sonde di temperatura, tra cui le monoblocco possono quindi essere installate in zone classificate "cat.2 e classi di temperatura T1-T2-T3-T4"

⁽²⁾In the areas classified as cat.2 and temperature classes T5 and T6 pump is supplied with a temperature probe installed on the bearings, to fix respectively 95°C (T5) and 80°C (T6). Pumps without temperature probes, for example close coupled pumps, can be installed in areas classified as "Cat.2 T1-T2-T3-T4"

Schema flussaggi tenute meccaniche

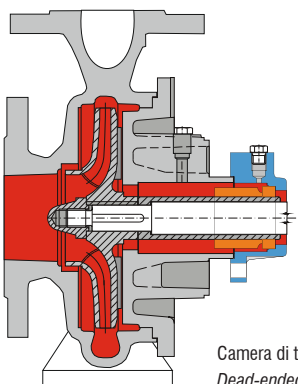
Piping for mechanical seal

**API Plan 01
ISO-5199-00/01**



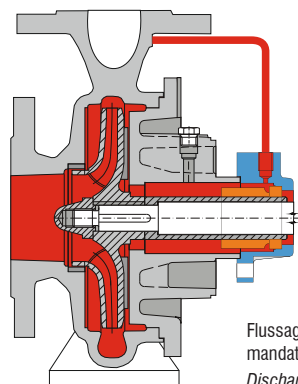
Flussaggio interno alla camera di tenuta
Internal seal chamber flush

**API Plan 02
ISO-5199-00/01**



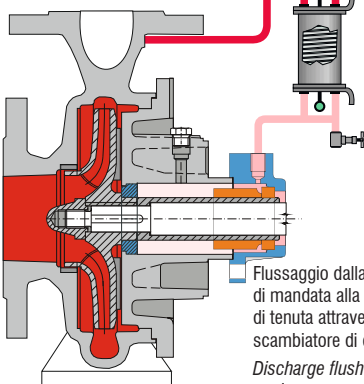
Camera di tenuta "dead-end"
Dead-ended seal chamber

**API Plan 11
ISO-5199-02**



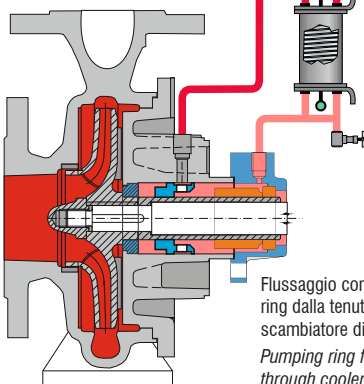
Flussaggio dalla bocca di mandata
Discharge flush

**API Plan 21
ISO-5199-02 + cooler**



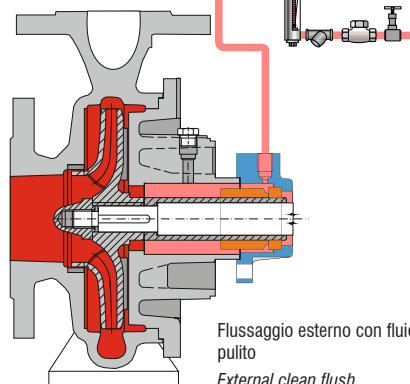
Flussaggio dalla bocca di mandata alla camera di tenuta attraverso uno scambiatore di calore
Discharge flush through cooler

**API Plan 23
ISO-5199-06**



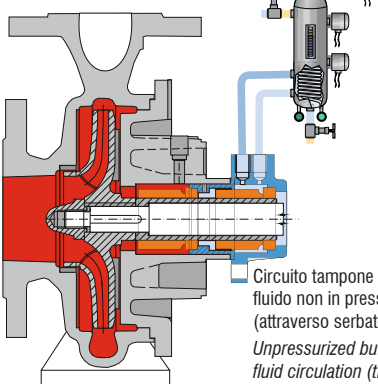
Flussaggio con pumping ring dalla tenuta tramite scambiatore di calore
Pumping ring flush through cooler

**API Plan 32
ISO-5199-08**



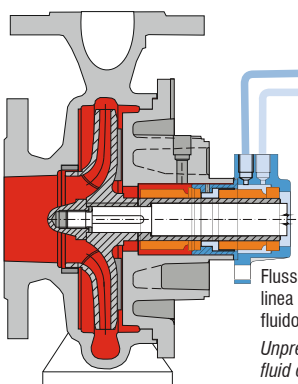
Flussaggio esterno con fluido pulito
External clean flush

**API Plan 52
ISO-5199-10**



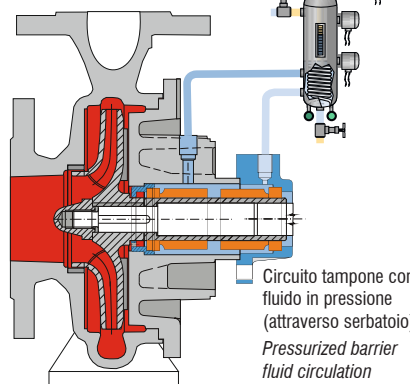
Circuito tampone con fluido non in pressione (attraverso serbatoio)
Unpressurized buffer fluid circulation (through reservoir)

**API Plan 52A
ISO-5199-09**



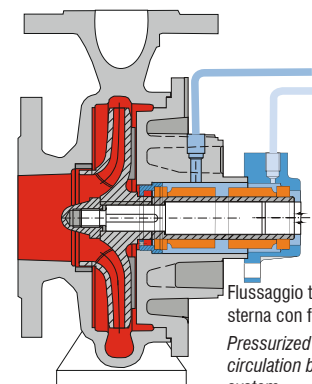
Flussaggio tramite linea esterna con fluido non in pressione
Unpressurized buffer fluid circulation by external system

**API Plan 53A
ISO-5199-11/12**



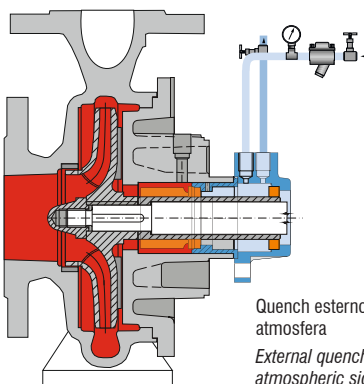
Circuito tampone con fluido in pressione (attraverso serbatoio)
Pressurized barrier fluid circulation (through reservoir)

**API Plan 54
ISO-5199-09**



Flussaggio tramite linea esterna con fluido in pressione
Pressurized barrier fluid circulation by external system

**API Plan 62
ISO-5199-09**



Quench esterno lato atmosfera
External quench on atmospheric side

SERBATOI SENZA RAFFREDDAMENTO - TANKS WITHOUT COOLING

Serbatoio 0,2 l in plastica per tenuta tandem. Adatto per tenute con piccoli diametri e a basso n° di giri. (d.24mm: 3000rpm - d.33mm e 43 mm: 1500 rpm)

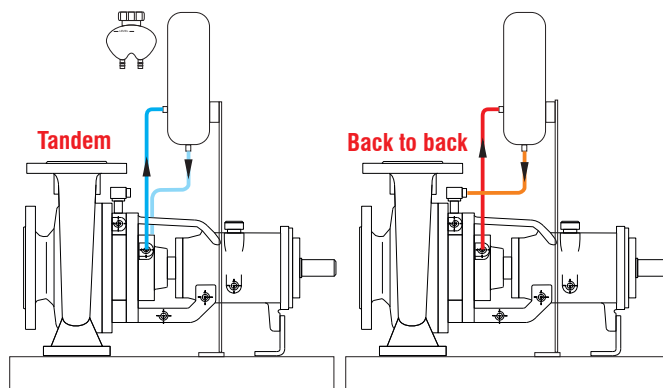


Plastic tank 0,2 liters for tandem seal. Suitable for small size mechanical seals and low speed. (d.24 mm: 3000 rpm - d.33mm and 43 mm: 1500 rpm)

Serbatoio AISI 316 - 3 litri per tenuta tandem e contrapposta. **Versione economica senza raffreddamento.** Pressione massima di esercizio **6 BAR**. Adatto con temperature di lavoro non superiori a 50°C, anche in funzione del diametro di tenuta e del numero di giri.

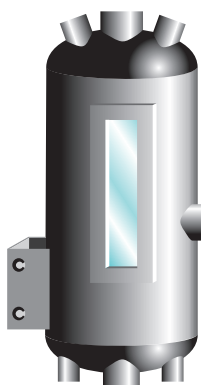


AISI 316 tank - 3 liters for tandem or back to back seal. **Not cooled and cheap execution.** Maximum working pressure **6 BAR**. Suitable for working temperatures not higher than 50°C, also according to seal size and working rpm.

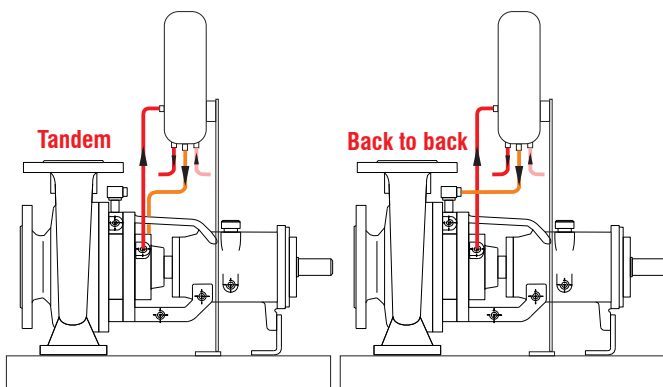


SERBATOI CON RAFFREDDAMENTO - TANKS WITH COOLING

Serbatoio AISI 316 per tenuta tandem e contrapposta. **Con raffreddamento interno.** A seconda del modello e del costruttore sono disponibili serbatoi con capacità tra **6 e 12 litri** e pressione di lavoro fino a **16 BAR**. Il serbatoio può essere equipaggiato con manometro, termometro, sensori di livello e/o pressione anche in versione ATEX.

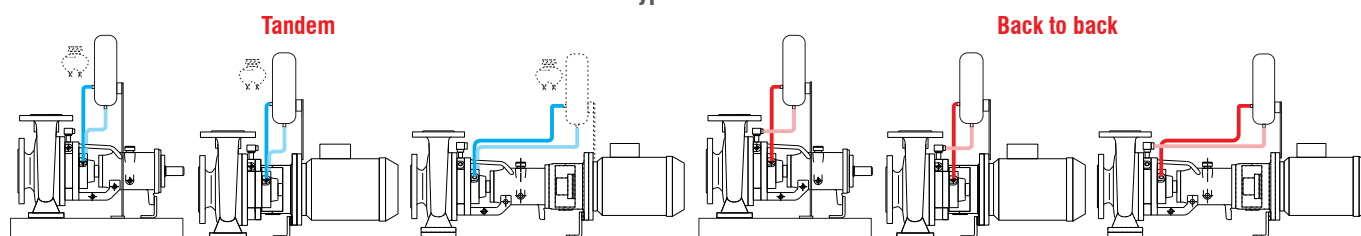


AISI 316 tank for tandem or back to back seal. **With cooling system.** According to the producer and the model, are available **6 to 12 liters** tanks having a maximum working pressure of **16 BAR**. The tank can be equipped with pressure gauge, thermometer, level and/or pressure controls, also in ATEX execution.



Installazione tipica serbatoi

Tanks typical installation



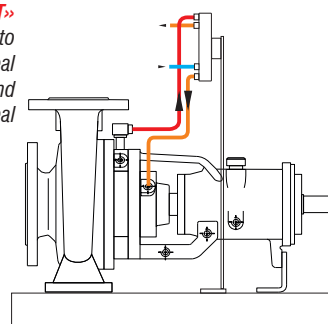
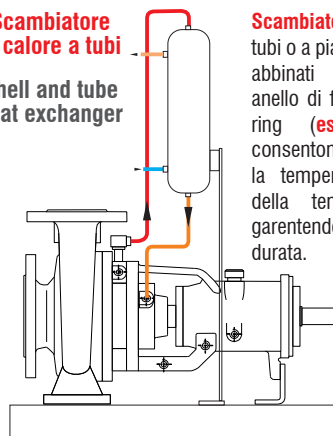
SCAMBIATORI DI CALORE - HEAT EXCHANGER

Scambiatore di calore a tubi
Shell and tube heat exchanger



Scambiatori di calore a tubi o a piastre saldobrasati abbinati con **PLAN 23**, anello di fondo e pumping ring (**esecuzione «T»**) consentono di ridurre la temperatura di lavoro della tenuta meccanica garantendo una maggior durata.

Shell and tube, or brazed plate **heat exchangers**, used in **PLAN 23** execution with bottom and pumping ring (**«T» execution**) are able to reduce mechanical seal working temperature and guarantee longer seal life.



Tenute meccaniche disponibili a magazzino

Mechanical seal available on stock

Tenute meccaniche disponibili a magazzino

CONSEGNE RAPIDE e RICAMBI PRONTI grazie ad una completa scelta di tenute disponibili a magazzino.

Nella tabella sono indicate le tenute normalmente a magazzino scelte tra le migliori marche (Burgmann, Chesterton, Crane, Fluiten e Roten) e adatte a coprire il 90% degli utilizzi. La scelta facilitata e la grande varietà di materiali consentono di trovare sempre la soluzione più adatta.

La sedi (unificate sui diametri 33-43-53-70-90) sono adatte ad ospitare, come meglio indicato nelle singole sezioni del catalogo, qualsiasi tipo di tenuta, incluse le cartucce. A richiesta è possibile fornire altre marche e altri modelli



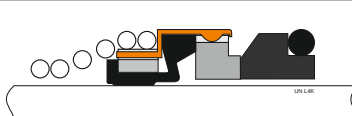
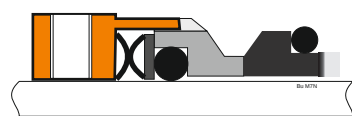
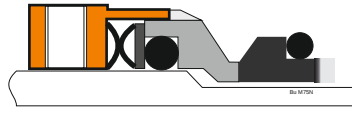
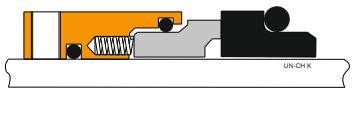
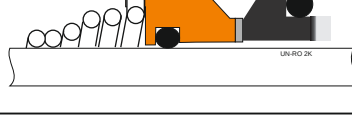
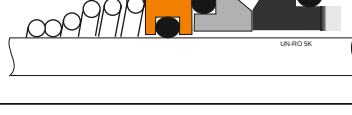
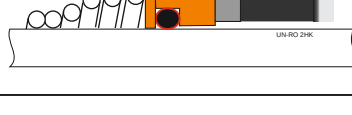
Mechanical seals available on stock

QUICK DELIVERY and READY SPARE PARTS thanks to a complete range of mechanical seals ready on stock.

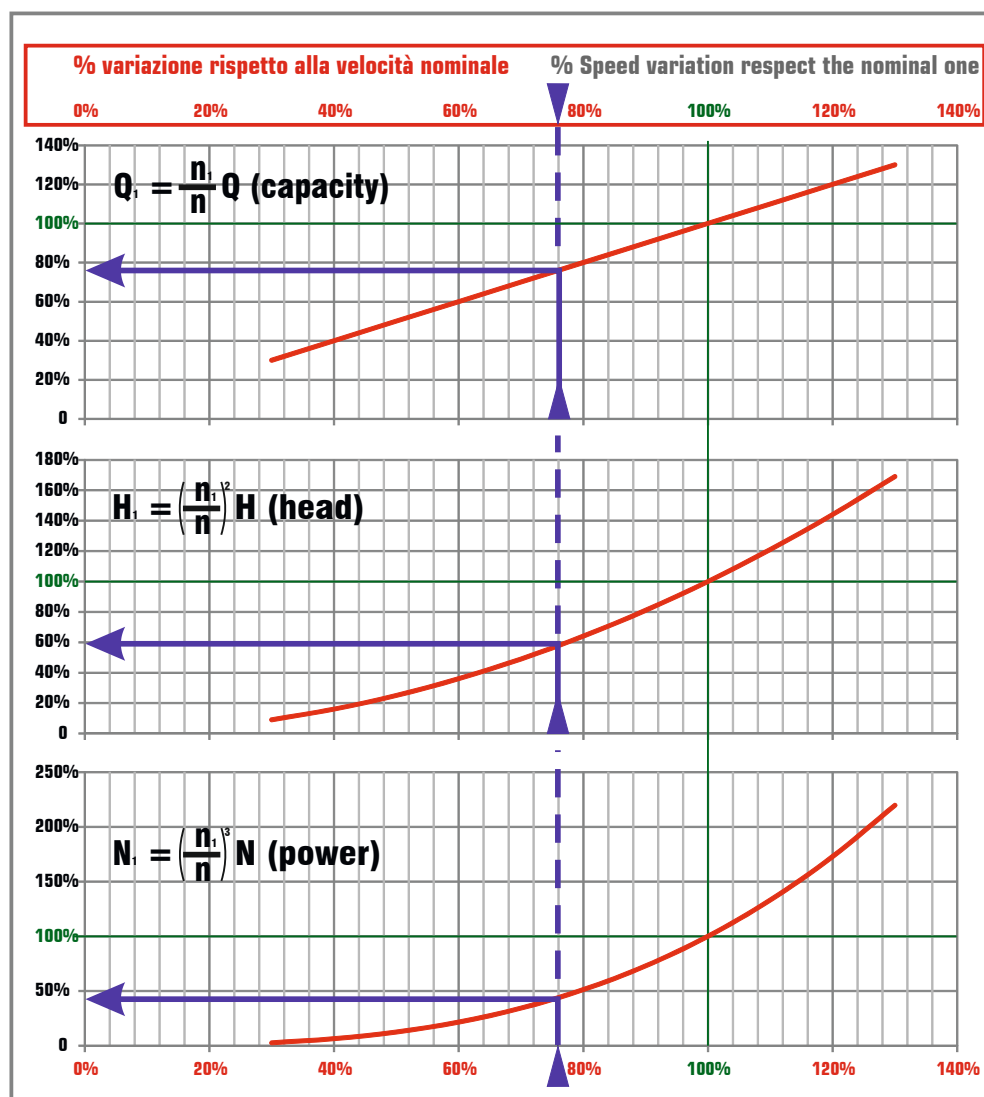
In the table are specified the seals usually on stock, chosen among the best brands (Burgmann, Chesterton, Crane, Fluiten e Roten) and suitable to cover 90% of the applications. The easy choice and a great materials variety allows to find everytime the best solution.

The seal seats (33-43-53-70-90 mm standard diameter) are suitable to host, as better showed in the specific catalogues, any kind of seal, cartridge included. On request is possible to supply other brands and types.

Diametri disponibili
available diameters

modelli tenute disponibili a magazzino seals type available on stock ①	codice code	materiali principali main materials	 RD-RG RB-RC	 HD-HG-RS	note notes	spiegazione explanation
	180	SIC/SIC/EPDM/316	33 mm	33 mm	  	 RD-RG-RB-RC tenute installate su: seals installed on: All RD-RG-RB-RC
	181	SIC/SIC/VITON/316	43 mm			
	182	SIC/CARBON/EPDM/316	53 mm			
	183	SIC/CARBON/VITON/316	70 mm			
	226	SIC/SIC/CHEMRAZ 505/316	33 mm		  	 tenute installate su: seals installed on: RS
	227	SIC/CARBON/CHEMRAZ 505/316	43 mm			
	264	SIC/CARBON/CHEMRAZ 505/316	53 mm		  	24 mm HD-HG 20 08 25 12-32 12-40 12 32 16-40 16-50 16-65 16
			70 mm			
	600	SIC/SIC/EPDM/316	33 mm		  	24 mm HD-HG-RS 25 16-25 19 32 16-40 16-50 16
		SIC/SIC/VITON/316	43 mm			
	124	TUNG.CARB.T.C./NBR/316		24 mm	  	 parte fissa spinata (X=non spinata)  locked (X=unlocked) stationary ring  anello di fermo incluso (X=non incluso) Locking ring included (X=not included)
	122	AISI 316/CARBON/VITON	33-43 mm			
	125	TUNG.CARB.T.C./EPDM/316	33-43mm			
	126	TUNG.CARB.T.C./VITON/316	53-70-90mm			
	153	TUNG.CARB.T.C./EPDM/316	33 mm	24 mm	  	 V vuoto max 8 m max vacuum 8 m  V vuoto max 5 m max vacuum 5 m  V versione per vuoto a richiesta vacuum type on request
	154	TUNG.CARB.T.C./VITON/316	43 mm			
	171	SIC/SIC/FEP-PTFE/316	53 mm	33 mm	  	 non bilanciata not balanced  bilanciata balanced
			70 mm			
	140	AISI316/CARBON/FEP-PTFE/316		24 mm	  	 molle protette protected spring
	141	TUNG.CARB/CARBON/FEP-PTFE/316	33-43 mm			
	142	TUNG.CARB.T.C./FEP-PTFE/316				

① Si intende che i modelli indicati sono normalmente disponibili a magazzino salvo difficoltà di approvvigionamento o sostituzione con altri modelli intercambiabili.
It means that the showed types are usually on stock, excluded supply difficulties or changement with other interchangeable type



rpm	Q	H	N
150%	150%	225%	338%
145%	145%	210%	305%
140%	140%	196%	274%
135%	135%	182%	246%
130%	130%	169%	220%
125%	125%	156%	195%
120%	120%	144%	173%
115%	115%	132%	152%
110%	110%	121%	133%
105%	105%	110%	116%
100%	100%	100%	100%
95%	95%	90%	86%
90%	90%	81%	73%
85%	85%	72%	61%
80%	80%	64%	51%
75%	75%	56%	42%
70%	70%	49%	34%
65%	65%	42%	27%
60%	60%	36%	22%
55%	55%	30%	17%
50%	50%	25%	12%
45%	45%	20%	9%
40%	40%	16%	6%
35%	35%	12%	4%
30%	30%	9%	3%
25%	25%	6%	2%

Esempio:

V: velocità nominale pompa = 3000 rpm
Q: portata pompa al punto di lavoro = 100 m³/h
H: prevalenza pompa al punto di lavoro = 20 m
N: potenza pompa al punto di lavoro = 7 Kw



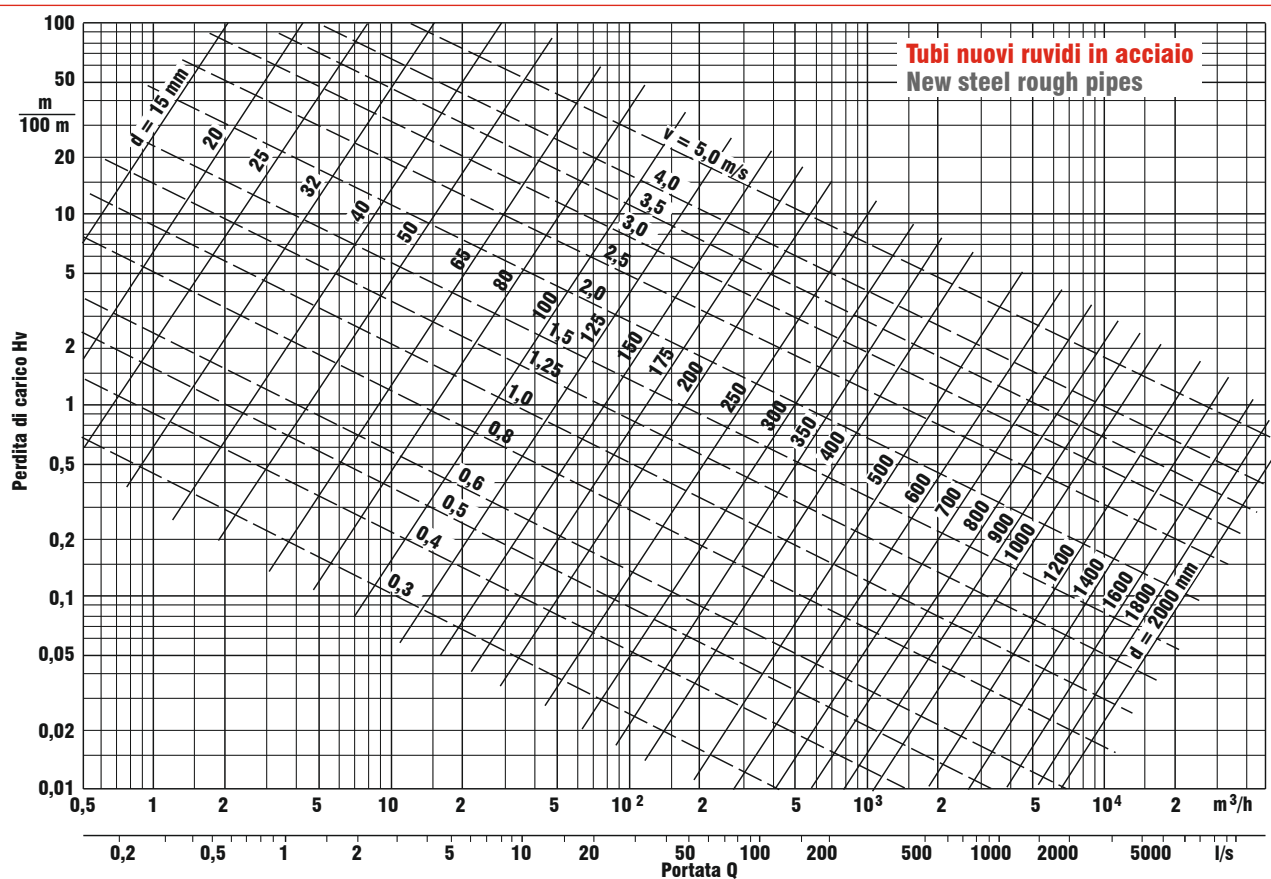
V₁: nuova velocità pompa = 2280 rpm (2280/3000 = 76%)
Q₁: portata alla nuova velocità = 100 m³/h x 76% = 76 m³/h
H₁: prevalenza alla nuova velocità = 20 m x 58% = 11,6 m
N₁: potenza assorbita alla nuova velocità = 7 Kw x 44% = 3,08 Kw

Example:

V: pump nominal speed = 3000 rpm
Q: pump capacity at the duty point = 100 m³/h
H: pump head at the duty point = 20 m
N: pump power at the duty point = 7 Kw

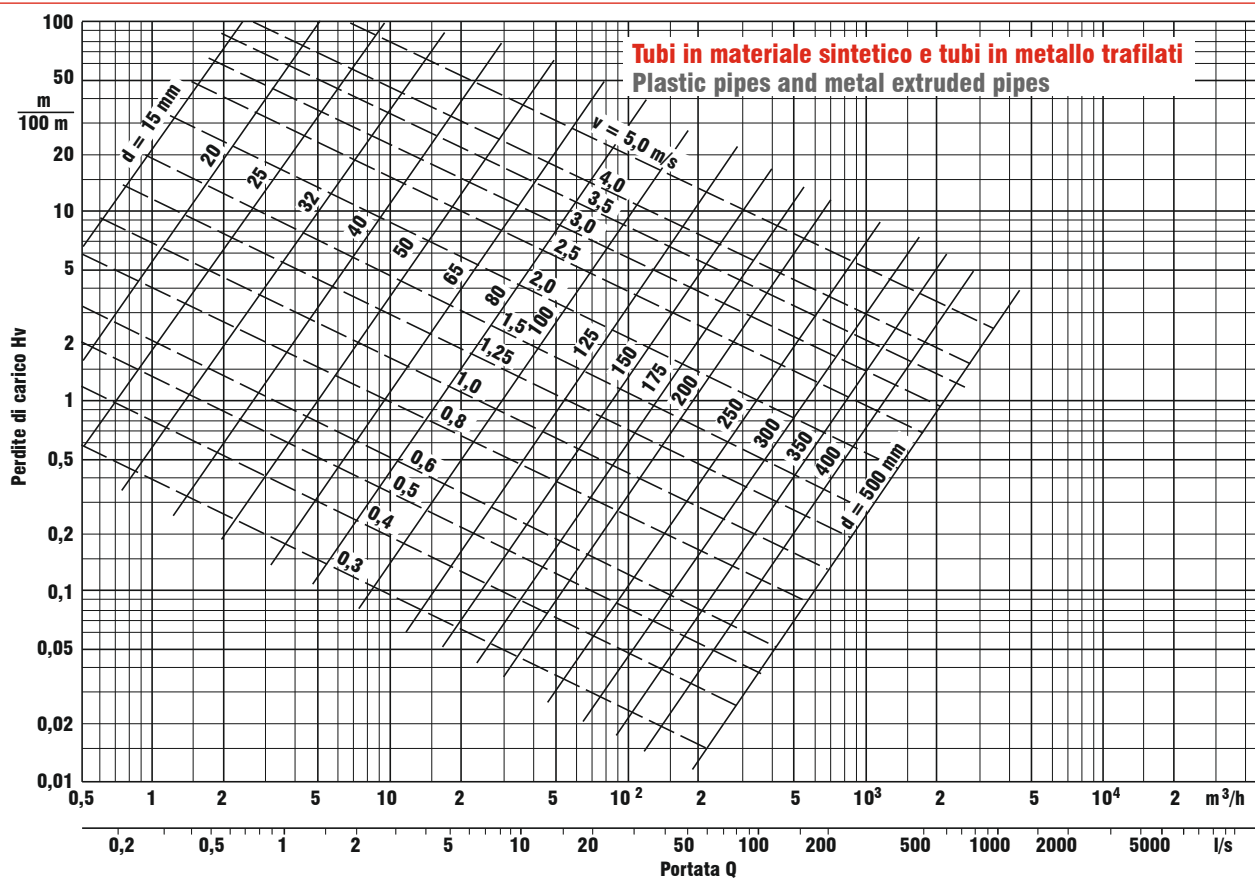


V₁: new pump speed = 2280 rpm (2280/3000 = 76%)
Q₁: capacity at the new speed = 100 m³/h x 76% = 76 m³/h
H₁: head at the new speed = 20 m x 58% = 11,6 m
N₁: absorbed power at the new speed = 7 Kw x 44% = 3,08 Kw



Perdite di carico H_v per tubi nuovi in acciaio ($K=0,05$)

Friction losses H_v for new steel pipes ($K=0,05$)



Perdite di carico H_v per tubi lisci ($K=0$)

Friction losses H_v for smooth pipes ($K=0$)

DESCRIZIONE	DESCRIPTION	CODICE MATERIALE POMPA - PUMPS MATERIAL CODE							
		0	1	2	3	4	5	6	7
CORPO	CASING	GJL 250	GJL 250	GJL 250	CF8M (AISI 316)	GJL 250	CF3M (AISI 316L)	AISI 904L	SAF 2205
COPERCHIO CORPO	CASING COVER	GJL 250	GJL 250	GJL 250	CF8M (AISI 316)	GJL 250	CF3M (AISI 316L)	SANICRO 28	SAF 2205
GIRANTE	IMPELLER	GJL250/ GJS400	GJL250/ GJS400	CF8M (AISI 316)	CF8M (AISI 316)	CF8M (AISI 316)	CF3M (AISI 316L)	SANICRO 28	SAF 2205
ALBERO GRUPPO1-2 ^(A)	SHAFT GROUP 1-2 ^(A)	AISI 316L	AISI 420	AISI 316L	AISI 316L	AISI 420	AISI 316L	AISI 316L ^(B)	AISI 316L ^(B)
ALBERO GRUPPO3-4-5 ^(A)	SHAFT GROUP 3-4-5 ^(A)	C45 ^(B)	C45 ^(B)	C45 ^(B)	C45 ^(B)	C45 ^(B)	C45 ^(B)	C45 ^(B)	C45 ^(B)
ALBERO MONOBLOCCO ^(A)	SHAFT CLOSED COUPLE ^(A)	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L ^(B)	AISI 316L ^(B)
CAMICIA ALBERO	SHAFT SLEEVE	AISI 316L	AISI 420	AISI 316L	AISI 316L	AISI 420	AISI 316L	AISI 904L	SAF2507
PIEDE SOSTEGNO	SUPPORT FOOT	S 235 JR	S 235 JR	S 235 JR	S 235 JR	S 235 JR	S 235 JR	S 235 JR	S 235 JR
SUPPORTO	BEARING HOUSING	GJL 200	GJL 200	GJL 200	GJL 200	GJL 200	GJL 200	GJL 200	GJL 200
LANTERNA	LANTERN BRACKET	GJL200/GJL250/ S 235 JR	GJL200/GJL250/ S 235 JR	GJL200/GJL250/ S 235 JR	GJL200/GJL250/ S 235 JR	GJL200/GJL250/ S 235 JR	GJL200/GJL250/ S 235 JR	GJL200/GJL250/ S 235 JR	GJL200/GJL250/ S 235 JR
COPERCHIO TENUTA SINGOLA	SINGLE MECHANICAL SEAL COVER	GJL250	GJL250	GJL250	AISI 316L	GJL250	AISI 316L	AISI 904L	SAF2507 SAF2205
COPERCHIO TENUTA DOPPIA	DOUBLE MECHANICAL SEAL COVER	C40	C40	C40	AISI 316L	C40	AISI 316L	AISI 316L	AISI 316L
OGIVA GIRANTE	IMPELLER HUB	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 904L	SAF 2205
ANELLO USURA	WEAR RING	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 904L	SAF2205
PIASTRA USURA ^(C)	WEAR PLATE ^(C)	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 904L	SAF2205

DESCRIZIONE	DESCRIPTION	CODICE MATERIALE POMPA - PUMPS MATERIAL CODE							
		8	9	A	B	C	D	E	S
CORPO	CASING	SAF2507	HASTELLOY B	HASTELLOY C	CF3M (AISI 304L)	CF8M (AISI 304)	AISI 329	SANICRO 28	ON DEMAND
COPERCHIO CORPO	CASING COVER	SAF2507	HASTELLOY B	HASTELLOY C	CF3M (AISI 304L)	CF8M (AISI 304)	AISI 329	SANICRO 28	ON DEMAND
GIRANTE	IMPELLER	SAF2507	HASTELLOY B	HASTELLOY C	CF3M (AISI 304L)	CF8M (AISI 304)	AISI 329	SANICRO 28	ON DEMAND
ALBERO GRUPPO1-2 ^(A)	SHAFT GROUP 1-2 ^(A)	AISI 316L ^(B)	AISI 316L ^(B)	AISI 316L ^(B)	AISI 316L ^(B)	AISI 316L ^(B)	AISI 316L ^(B)	AISI 316L ^(B)	ON DEMAND
ALBERO GRUPPO3-4-5 ^(A)	SHAFT GROUP 3-4-5 ^(A)	C45 ^(B)	C45 ^(B)	C45 ^(B)	C45 ^(B)	C45 ^(B)	C45 ^(B)	C45 ^(B)	ON DEMAND
ALBERO MONOBLOCCO ^(A)	SHAFT CLOSED COUPLE ^(A)	AISI 316L ^(B)	AISI 316L ^(B)	AISI 316L ^(B)	AISI 316L ^(B)	AISI 316L ^(B)	AISI 316L ^(B)	AISI 316L ^(B)	ON DEMAND
CAMICIA ALBERO	SHAFT SLEEVE	SAF2507	HASTELLOY B	HASTELLOY C	AISI 304L	AISI 304	AISI 329	AISI 904L	ON DEMAND
PIEDE SOSTEGNO	SUPPORT FOOT	S 235 JR	S 235 JR	S 235 JR	S 235 JR	S 235 JR	S 235 JR	S 235 JR	ON DEMAND
SUPPORTO	BEARING HOUSING	GJL 200	GJL 200	GJL 200	GJL 200	GJL 200	GJL 200	GJL 200	GJL 200
LANTERNA MOTORE	LANTERN BRACKET	GJL200/GJL250/ S 235 JR	GJL200/GJL250/ S 235 JR	GJL200/GJL250/ S 235 JR	GJL200/GJL250/ S 235 JR	GJL200/GJL250/ S 235 JR	GJL200/GJL250/ S 235 JR	GJL200/GJL250/ S 235 JR	GJL200/GJL250/ S 235 JR
COPERCHIO TENUTA SINGOLA	SINGLE MECHANICAL SEAL COVER	SAF2507	HASTELLOY B	HASTELLOY C	CF8M (AISI 304)	CF8M (AISI 304)	AISI 329	AISI 904L SANICRO 28	ON DEMAND
COPERCHIO TENUTA DOPPIA	DOUBLE MECHANICAL SEAL COVER	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	ON DEMAND
OGIVA GIRANTE	IMPELLER HUB	SAF2507	HASTELLOY B	HASTELLOY C	AISI 304L	AISI 304	AISI 329	AISI 904L	ON DEMAND
ANELLO USURA	WEAR RING	SAF2507	HASTELLOY B	HASTELLOY C	AISI 304L	AISI 304	AISI 329	SANICRO 28	ON DEMAND
PIASTRA USURA ^(C)	WEAR PLATE ^(C)	SAF2507	HASTELLOY B	HASTELLOY C	AISI 304L	AISI 304	AISI 329	SANICRO 28	ON DEMAND

(A) SUDDIVISIONE GRUPPI - GROUP DIVISION:
Gruppo 1-2 - Group 1-2

RD - RG :32-16, 32-20, 40-16, 40-20, 50-16, 50-20, 50-25, 65-16, 65-20, 65-25, 80-16, 80-20, 80-25, 100-20

RB :65-20, 80-20, 80-25, 100-25, 125-25

RC :32-16, 32-20, 50-16, 50-20, 50-25, 65-20, 65-25, 80-20(S), 80-25, 100-25, 125-25

Gruppo 3-4-5 - Group 3-4-5

RD - RG :65-31, 80-31, 100-25, 100-31, 100-40, 125-25, 125-31, 125-40

RB :80-31, 125-31, 125-40, 150-31, 150-35, 200-35, 200-45, 250-35, 250-45, 300-45

RC :80-31, 125-31, 150-31, 150-35, 200-35, 250-35

Monoblocco - Closed couple

RDM - RGM :32-16, 32-20, 40-16, 40-20, 50-16, 50-20, 50-25, 65-16, 65-20, 65-25, 80-16, 80-20, 80-25, 100-20

RBM :65-20, 80-20, 80-25, 100-25, 125-25

RCM :32-16, 32-20, 50-16, 50-20, 50-25, 65-20, 65-25, 80-20(S), 80-25, 100-25, 125-25

(B) NON IN CONTATTO CON IL LIQUIDO POMPATO - NOT IN CONTACT WITH THE PUMPED LIQUID
(C) SOLO PER SERIE "RG" - ONLY FOR RG TYPE