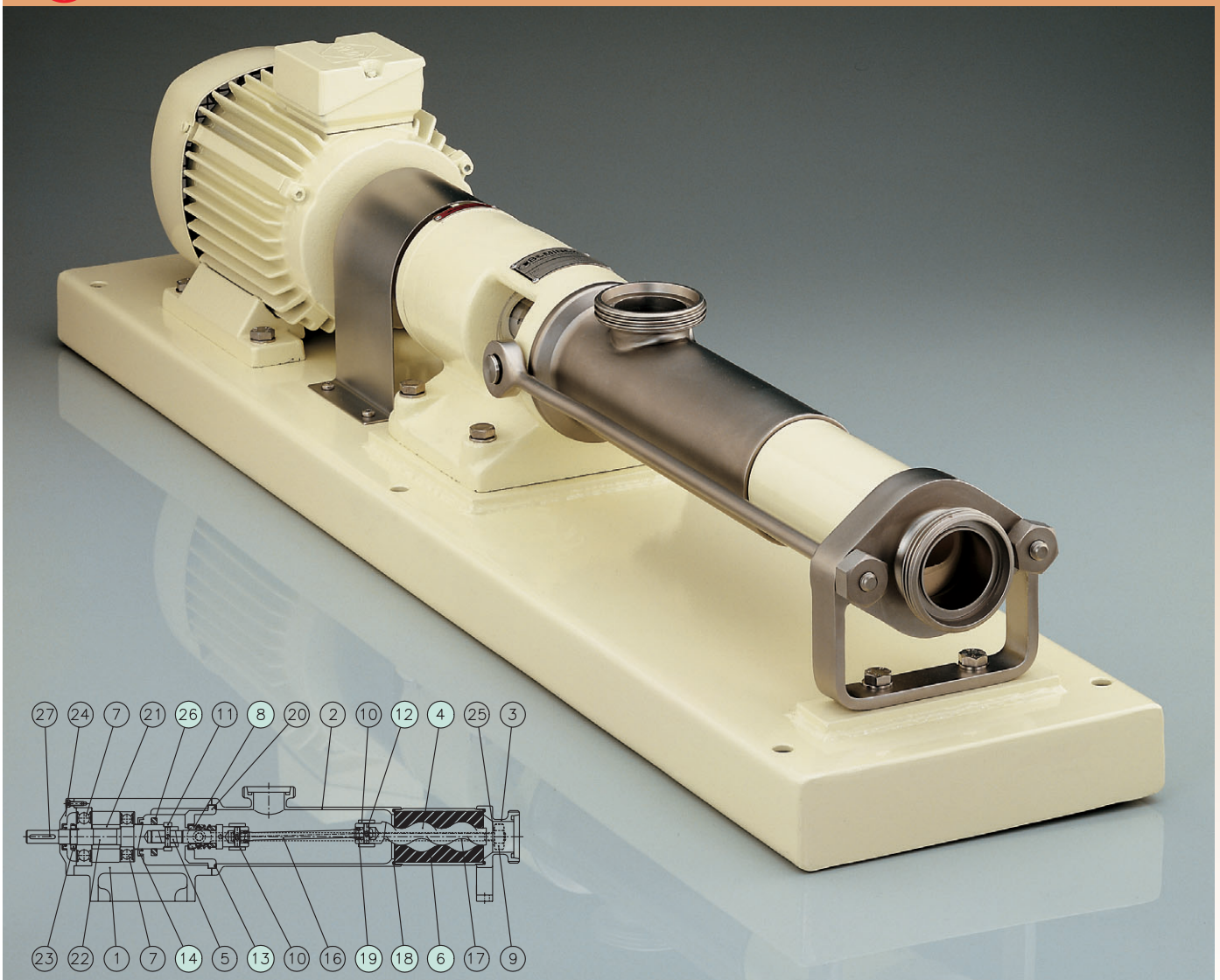
Bomba volumétrica eje libre de rotor helicoidal
Free shaft positive displacement spiral impeller pump

ROTOR-S



NOMENCLATURA

1 - Soporte	8 - Cierre mecánico	16 - Barra universal	23 - Tuerca
2 - Cuerpo	9 - Tuerca	17 - Tirante	24 - Tapa
3 - Boca	10 - Casquillo	18 - Junta tórica	25 - Arandela
4 - Rotor	11 - Casquillo	19 - Junta barra	26 - Paragotas
5 - Eje	12 - Pasador	20 - Caja cierre	27 - Chaveta
6 - Estator	13 - Junta tórica	21 - Separador	
7 - Rodamiento	14 - Reten	22 - Eje	

NOMENCLATURE

1 - Support	*8 - Mechanical seal*	*16 - Universal rod*	*23 - Nut*
2 - Body	*9 - Nut*	*17 - Rod*	*24 - Cover*
3 - Mouth	*10 - Sleeve*	*18 - O-ring*	*25 - Washer*
4 - Rotor	*11 - Sleeve*	*19 - Rod seal*	*26 - Splash protection*
5 - Shaft	*12 - Pin*	*20 - Seal box*	*27 - Key*
6 - Stator	*13 - O-ring*	*21 - Separator*	
7 - Bearing	*14 - Catch*	*22 - Shaft*	

NOTA: Las piezas de recambio recomendadas están coloreadas. / *NOTE: The recommended spare parts are coloured in.*

E
GB
H3

CARACTERÍSTICAS TÉCNICAS

Caudal..... Q = 0.5 a 20 m3/h
Altura manométrica
Simple etapa..... H = 5 a 60 m c a
Doble etapa..... H = 5 a 120 mca
Motores..... P = 0.5 a 10 hp
(0.37 a 7.5 kW)
Velocidad motor..... n = 100 a 1500 rpm
Viscosidad máxima..... V = 100000 cP
Temperatura..... T = 80ºC
(especial 110ºC)
Material..... AISI-316L

DESCRIPCIÓN

La bomba ROTOR-S es una bomba volumétrica de desplazamiento positivo para líquidos claros y viscosos.
Sus características principales son:
-Autoaspirante volumétrica.
-Bombeo constante, uniforme, sin pulsaciones.
-Caudal proporcional a la velocidad.
-Reversible, invirtiendo el sentido de giro.
-Desmontaje fácil, por dos tirantes articulados.
-Filtrado ideal de líquidos delicados.

La bomba ROTOR-S es del tipo eje libre sanitaria de rotor helicoidal y estator de caucho sintético. Bomba y motor independientes unidos mediante bancada común y acoplamiento elástico.
-Estator normal: Perbunán alimenticio, blanco.
-Estator especial: Hypalón, EPDM, vitón.

Se fabrica en dos tipos:
SIMPLE ETAPA: RS-21, RS-31, RS-41 y RS-51.
DOBLE ETAPA: RS-22, RS-32, RS-42 y RS-52.

-Cuerpo y Boca sanitarios, pulido mate.
-Barra universal de fácil mantenimiento.
-Eje intercambiable, independiente del motor.
-Cierre mecánico simple interior Burgmann. Posible otros cierres.
-Soporte en fundición Hº Fº.
-Protector seguridad soporte CE plástico.

Puede acoplarse a:
-Motor eléctrico 750-1000-1500 rpm.
-Motor-reductor 100 a 600 rpm.
-Motor-variador mecánico 190/1000 rpm o 125/600rpm.
-Variador electrónico o convertidor frecuencia.

Equipada con roscas DIN-11851 (posible SMS, FIL, CLAMP)

APLICACIONES

Nata, crema, jarabes, mermeladas, melazas, cosméticos, pastas, etc.
Agua, vino, aceites, zumos, etc.

TECHNICAL SPECIFICATIONS

Flow rate..... Q = 0.5 to 20 m^3/h
Total head
Single stage..... H = 5 to 60 mwc
Twin stage..... H = 5 to 120 mwc
Motors..... P = 0.5 to 10 hp
(0.37 to 7.5 kW)
Motor velocity..... n = 100 to 1500 rpm
Maximum viscosity..... V = 100000 cP
Temperature..... T = 80ºC
(special 110ºC)
Material..... AISI-316L

DESCRIPTION

The ROTOR-S is a monobloc positive displacement pump for thin and viscous liquids.
Its main specifications are:
-Positive displacement self-suction.
-Constant uniform pumping, without any pulsation.
-Flow rate is proportional to speed of rotation.
-Reversible by changing the direction of rotation.
-Easy to disassemble by means of two swivelling tierods.
-Ideal filtering of delicate liquids.

The ROTOR-S is a free shaft, sanitary, spiral impeller pump with a synthetic rubber stator. Independent motor and pump, joined by means of a common base and flexible coupling.
-Normal stator: Foodstuff perbunan, white.
-Special stator: Hypalon, EPDM, viton.

It is manufactured in two types:
SINGLE STAGE: RS-21, RS-31, RS-41 and RS-51.
TWIN STAGE: RS-22, RS-32, RS-42 and RS-52.

-Sanitary body and mouth, mat finish.
-Easy-to-maintain universal rod.
-Replaceable shaft, independent of the motor.
-Single internal mechanical seal, Burgmann type. Other seals possible.
-Cast iron support.
-Plastic CE support safety protector.

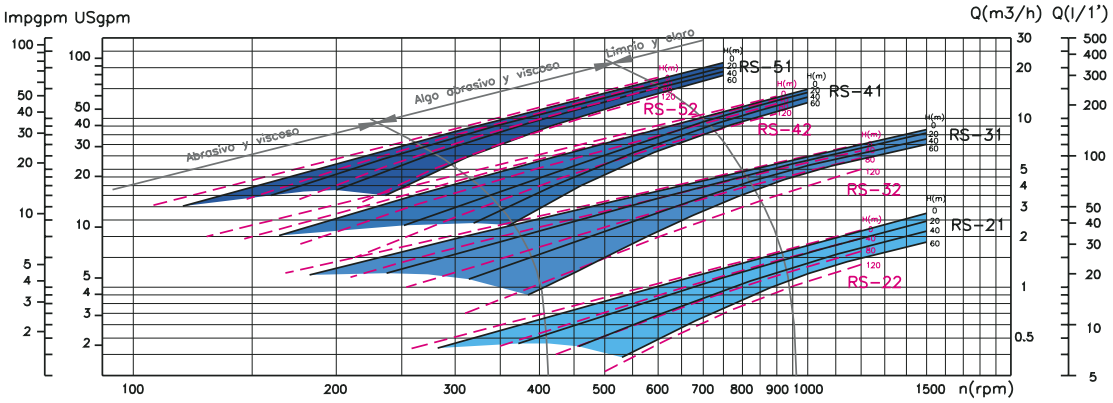
It may be coupled to:
-Electric motor 750-1000-1500 rpm.
-Geared motor, 100 to 600 rpm.
-Mechanical variator motor, 190/1000 rpm or 125/600 rpm.
-Electronic variator or frequency converter.

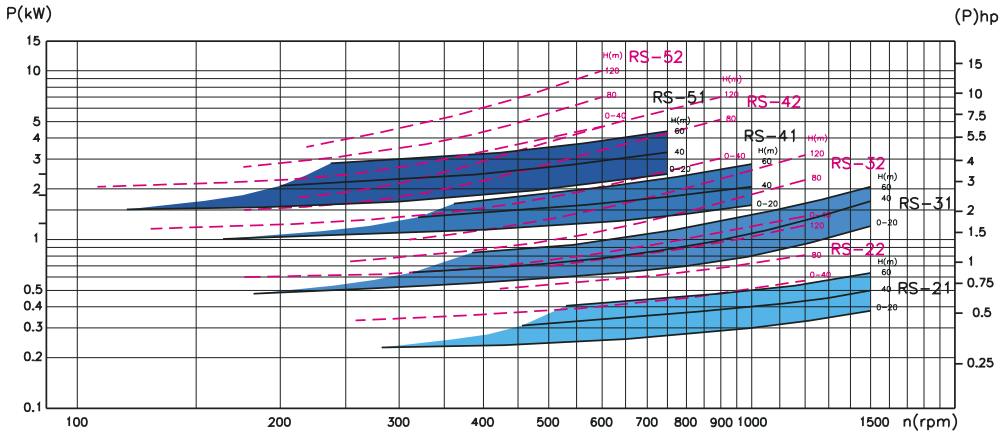
Fitted with DIN-11851 threads (possible SMS, FIL, CLAMP).

APPLICATIONS

Cream, custard, syrups, jams, molasses, cosmetics and pastes etc.
Water, wine, oil and juices etc.

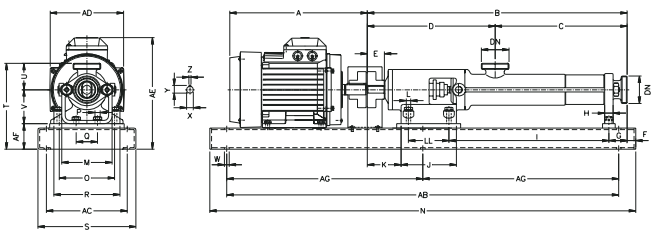
CURVAS CARACTERÍSTICAS / *CHARACTERISTIC CURVES*



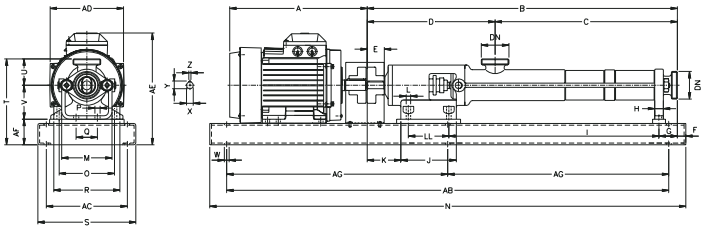


NOTA: Estas curvas se entienden para líquido no viscoso de densidad 1 cST. / *NOTE: The curves are understood to be for non-viscous liquids with a density of 1 cST.*

DIMENSIONES / *DIMENSIONS*



Simple etapa / *Single stage*



Doble etapa / *Twin stage*

TIPO / *TYPE*	MOTOR / *MOTOR*				DIMENSIONES / *DIMENSIONS* (mm)																																PESO / *WEIGHT* (kg)
	TAM / *SIZE*	hp	kW	rpm	A	B	C	D	E	F	G	H	I	J	K	L	LL	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AB	AC	AD	AE	AF	AG	DN	
RS-21	80	0.75-1	0.55-0.75	1500	277	610	310	300	40	20	43	20	376	130	79	10.5	95	118	1000	12	50	155	230	192	62	80	11	16	18.1	5	920	190	155	240	50	920	NW-40	16
	90	1.5-2	1.1-1.5		323																			202									174	263	60			
	80	0.5-0.75	0.37-0.55	1000	277																			192									155	240	50			
	90	1-1.5	0.75-1.1		323																			202									174	263	60			
	90	0.5-075	0.37-0.55	750	323																			202									174	263	50			
RS-31	90	1.5-2	1.1-1.5	1500	323	765	419	346	50	20	55	30	484	150	96	14	110	152	1200	14	70	170	270	218	62	90	13	20	22.5	6	1100	220	171	273	60	1100	NW-50	26
	100	3-4	2.2-3		362																			228									192	297	70			
	90	1-1.5	0.75-1.1	1000	323																			218									171	273	60			
	100	2	1.5		362																			228									192	297	70			
	112	3	2.2		363																			240									217	318	82			
	90	0.5-0.75	0.37-0.55	750	323																			218									171	273	60			
	100	1-1.5	0.75-1.1		362																			228									192	297	70			
	112	2	1.5		363																			240									217	318	82			
RS-41	112	3	2.2	1000	363	937	525	412	60	20	55	30	625	170	107	14	130	167	1500	14	80	19	300	247	75	100	15	25	28.2	8	1400	250	217	318	72	700	NW-65	35
	132	4-5.5	3-4		450																			264									261	355	92			
	112	2	1.5	750	363																			247									217	318	72			
	132	3-4	2.2-3		450																			267									261	355	92			
RS-51	132	3-4	2.2-3	750	450	1125	625	500	80	45	70	40	737	200	143	16	150	210	1800	16	90	225	350	277	85	112	15	30	32.9	8	1700	300	261	355	80	850	NW-80	58
	160	5.5-7.5	4-5.5		605																			305									310	429	108			

TIPO / *TYPE*	MOTOR / *MOTOR*				DIMENSIONES / *DIMENSIONS* (mm)																																PESO / *WEIGHT* (kg)
	TAM / *SIZE*	hp	kW	rpm	A	B	C	D	E	F	G	H	I	J	K	L	LL	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AB	AC	AD	AE	AF	AG	DN	
RS-22	90	1.5-2	1.1-1.5	1500	323	728	428	300	40	20	43	20	494	130	79	10.5	95	118	1100	12	50	155	230	202	62	80	11	16	18.1	5	1020	190	174	263	60	1020	NW-40	19
	90	1-1.5	0.75-1.1	1000	323																			202									174	263	60			
	90	0.5-0.75	0.37-0.55	750	323																			202									174	263	50			
RS-32	100	3-4	2.2-3	1500	362	938	592	346	50	20	55	30	657	150	96	14	110	152	1350	14	70	170	270	228	68	90	13	20	22.5	6	1250	220	192	297	70	625	NW-50	31
	100	2	1.5	1000	362																			228									192	297	70			
	112	3	2.2		363																			240									217	318	82			
	100	1-1.5	0.75-1.1	750	362																			228									192	297	70			
	112	2	1.5		363																			240									217	318	82			
RS-42	112	3	2.2	1000	363	1167	755	412	60	20	55	30	855	170	107	14	130	167	1600	14	80	190	300	247	75	100	15	25	28.5	8	1500	250	217	318	72	750	NW-65	42
	132	4-5.5-7.5	3-4-5.5		450																			267									261	355	92			
	112	2	1.5	750	363														1650					247							1550		217	318	72	775		
	132	3-4	2.2-3		450																			267									261	355	92			
RS-52	160	5.5-7.5-10	4-5.5-7.5	750	605	1399	899	500	80	45	70	40	1011	200	143	16	150	210	2100	16	90	225	250	305	85	112	15	30	32.9	8	2000	300	310	429	108	1000	NW-80	72

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