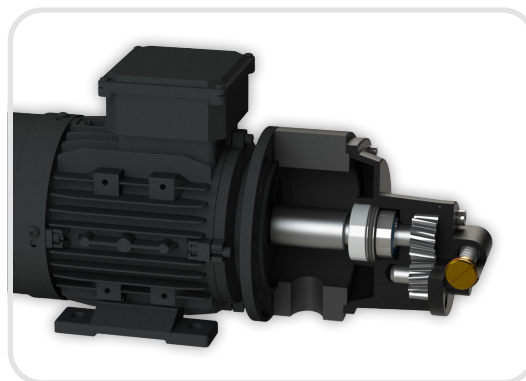




R-U Series

Gear pump with standard motor



Description

- Self-priming external helical gear pump with built-in safety valve.
- Suitable for transferring fuel oils, lubricants, animal or vegetable fats and others.
- Compact monoblock construction with rigid coupling to standard motor according to IEC standards. Also available in ATEX version.
- Sealing solution with mechanical seal or lip seals depending on the model.

Materials

Pump casing	GG-25
Gears	Treated steel
Pump shaft	F-114
Front cover	GG-25
Sealing solution	Depending on the model and application
Rear flange	GG-25

Technical data

Motor	Single/three-phase according to IEC 60034 stds
Efficiency	- IE2 or IE3 for powers > 1 HP - IE1 if the power < 1 HP - It can be supplied up to IE5.
Tension	- Single-phase 230V ± 10% up to 1 HP - Three-phase 230/400 V ± 10% up to 5,5 HP - Three-phase 400/690 V ± 10% from 7,5 HP
Poles	4 or 6 depending on the model
Level of protection	IP55
Insulation	F class

Usage limits

Range of flow rates	From 220 to 40000 l/h
Range of pressures	Up to 10 bar depending on the model
Max. working pressure	12 bar
Max. working temperature	110°C
Max. suction height	7 m

Connections

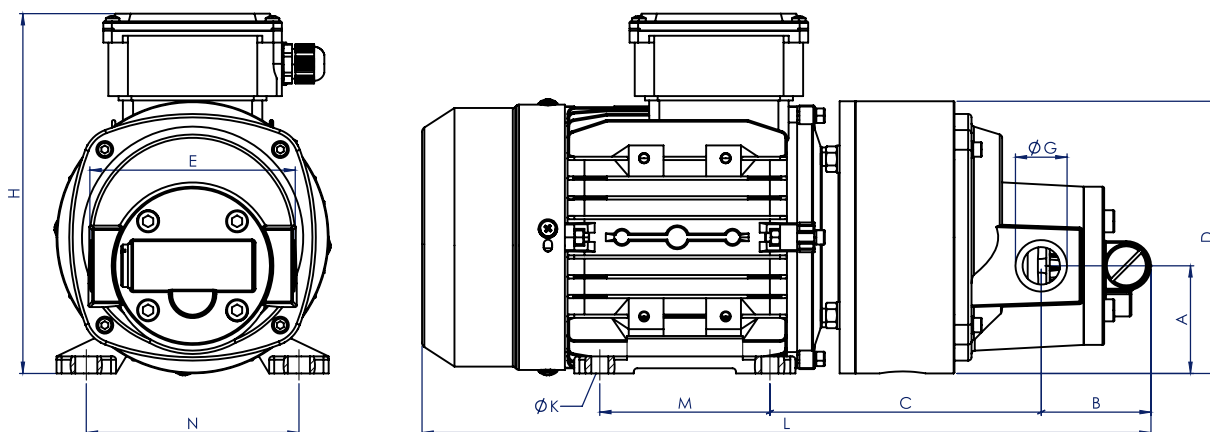
	Suction	Discharge
R-3 U	3/8	3/8
R-5 U	3/4	3/4
(S)R-10/16 U	1"	1"
R-25/35/50/65 U	1" 1/4	1" 1/4
R-100/140 U	DN65	DN65
(O-E-S)R-250 U	DN 80	DN 80
(O-S)R-400 U	DN 100	DN 100



Model characteristics

Model	Power		Motor	Voltage	I	n	P _{MAX}	Flow	Weight
	CV	kW							
(M)R-3 U	0,5	0,37	71 (IE1)	230M 230/400T	2,75 1,94/1,12	1450	10	220	11,2
(M)R-5 U	0,5	0,37	71 (IE1)	230M 230/400T	2,75 1,94/1,12	1450	10	500	11,2
(M)R-10 U	1	0,75	80 (IE1/IE3)	230M 230/400T	3,5 2,9/1,69	1450	10	1000	21,6
(M)R-16 U	1	0,75	80 (IE1/IE3)	230M 230/400T	3,5 2,9/1,69	1450	6	1600	21,6
SR-16 U	1,5	1,1	90S	230/400T	4,17/2,4	1450	10	1600	25
R-25 U	2	1,5	100	230/400T	6/3,47	950	10	2500	50,2
R-35 U	3	2,2	100	230/400T	7,96/4,6	1450	8	3500	50,2
R-50 U	4	3	100	230/400T	10,6/6,12	1450	10	5000	52,6
R-65 U	5,5	4	100	230/400T	13,87/8,02	1450	8	6500	56
R-100 U	5,5	4	132M	230/400T	13,87/8,02	950	10	10000	130
R-140 U	7,5	5,5	132S	400/690T	10,8/5,72	1450	7	14000	130
OR-250 U	5,5	4	112M	230/400T	13,87/8,02	1450	2	25000	N/A
ER-250 U	7,5	5,5	132S	400/690T	10,8/5,72		4		N/A
R-250 U	10	7,5	132M	400/690T	14,3/7,5		8		146
SR-250 U	12,5	9,2	132L1 (IE2)	400/690T	17,82/9,44		10		N/A
OR-400 U	12,5	9,2	132L1 (IE2)	400/690T	17,82/9,44	1450	2	40000	N/A
R-400 U	15	11	160M	400/690T	20,3/10,76		4		287
SR-400 U	25	18,5	160L	400/690T	27,27/14,42		8		N/A

Dimensions of models with threaded ports

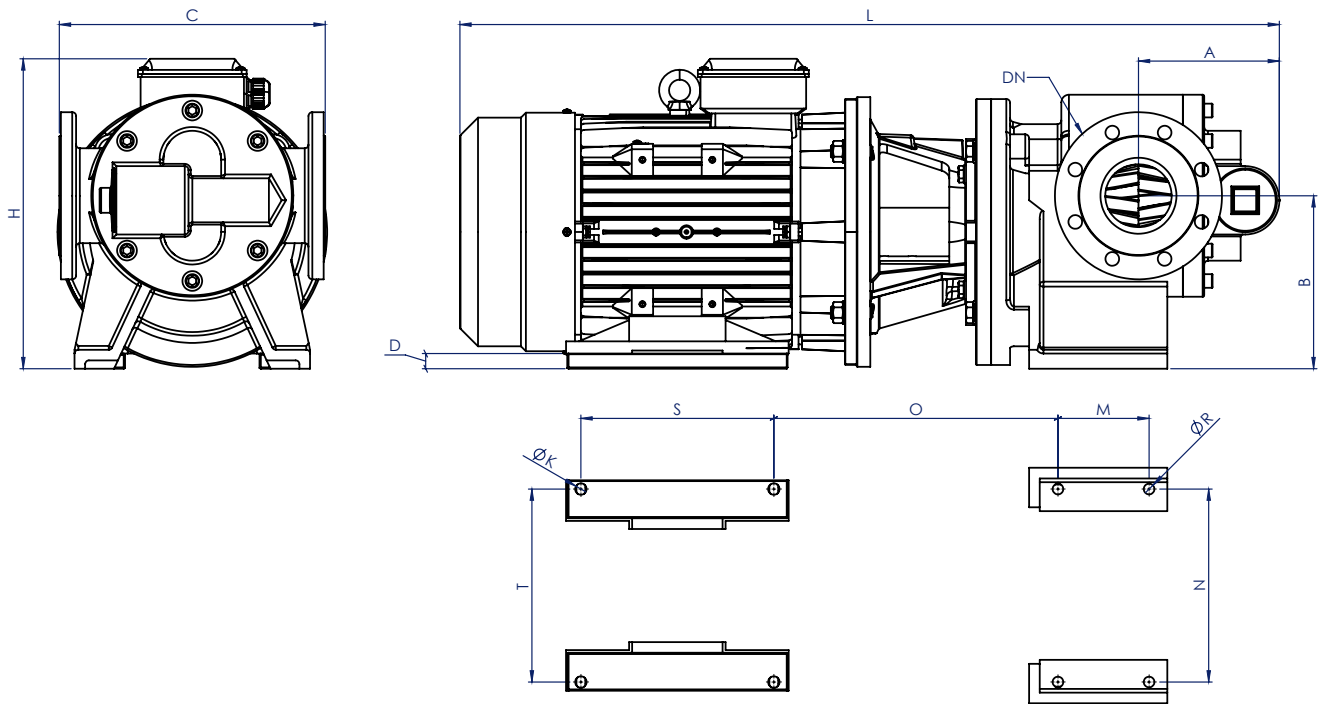


Model	Overall dimensions								Anchorage		
	L	H	A	B	C	D	E	ØG	M	N	ØK
R-3 U	369,5	188	58	55	129,5	140	98	3/8 G	90	112	7
R-5 U	369,5	188	58	59	125,5	140	98	3/4 G	90	112	7
R-10 U	428,5	210	63,25	64,5	159,5	160	120	1" G	100	125	9
R-16 U	428,5	210	62,15	64,5	159,5	160	120	1" G	100	125	9
SR-16 U	478,5	228	72,15	64,5	165,5	160	120	1" G	125	140	10
R-25/35 U	576	260	73,65	104	210	200	180	1 1/4 G	140	160	12
R-50 U	576	260	73,285	104	210	200	180	1 1/4 G	140	160	12
R-65 U	576	260	73,95	104	210	200	180	1 1/4 G	140	160	12

• For ATEX models, the dimensions may vary. Consult with the engineering dept.

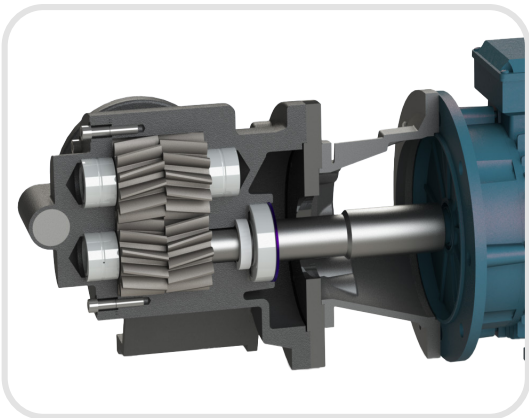
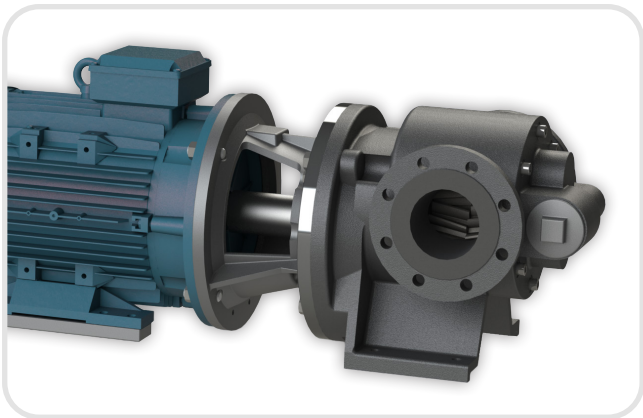


Dimensions of models with flanged ports



Model	Overall dimensions							Anchoring dimensions						
	L	H	A	B	C	D	DN	M	N	ØR	O	S	T	ØK
R-100 U	736	325	130,5	187,125	276	-	DN65	-	220	15	-	-	-	-
R-140 U	696	325	130,5	187,125	276	-	DN65	-	220	15	-	-	-	-
OR-250 U	708	325	165	171	310	20	DN80	70	180	12	181	140	190	12
ER-250 U	738	325	165	171	310	0	DN80	70	180	12	200	140	216	12
R-250 U	788	325	165	171	310	0	DN80	70	180	12	200	178	216	12
SR-250 U	858	325	165	171	310	0	DN80	70	180	12	200	178	216	12
OR-400 U	914,5	373	185,5	227,7	350	48	DN100	120	254	14	323	178	216	12
R-400 U	1086,5	410	185,5	227,7	350	20	DN100	120	254	14	374	210/254	254	15
SR-400 U	1086,5	410	185,5	227,7	350	20	DN100	120	254	14	374	254	254	15

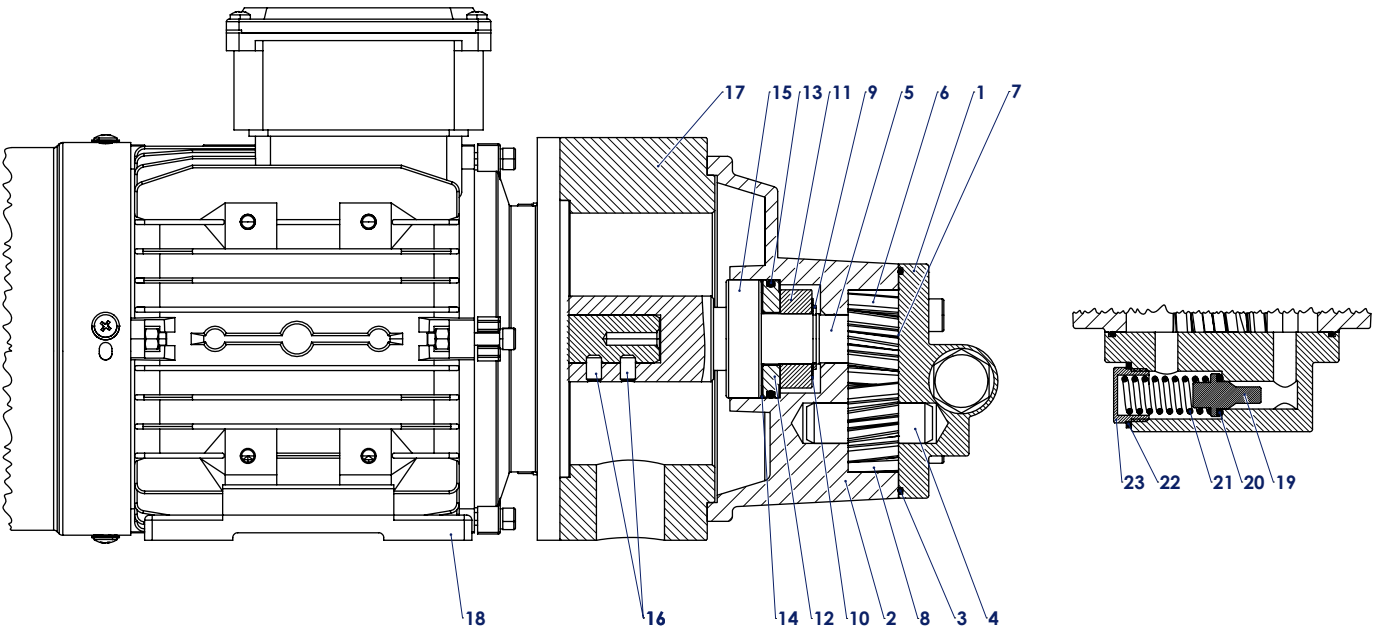
- For ATEX models, the dimensions may vary. Consult with the engineering department.
- The motors of the R-100/140 U models are not equipped with feet.





Overall component breakdown

The following drawing is an overall exploded view of the R-U Series. It should be noted that some pump models are equipped with different and/or additional components. Therefore, the drawing is only indicative. If any spare parts are required, please contact our sales department.



REF	Designation	REF	Designation
1	Pump front cover	13	Mechanical seal o-ring
2	Pump casing	14	Ball bearing adjusting washer
3	Front cover-Pump casing o-ring	15	Ball bearing
4	Driven shaft	16	Set screws
5	Drive shaft	17	Pump casing-Motor flange
6	Drive gear	18	Motor
7	Shaft key	19	Valve main part
8	Driven gear	20	Valve o-ring
9	Seeger	21	Valve spring
10	Mechanical seal adjusting washer	22	Valve plug gasket
11	Mechanical seal	23	Valve plug
12	Stationary mechanical seal		



Pump performance curves

