



RBQP Inox series: A gear pump for chemical process

The RBQP Inox series is a set of external helical gear pumps, specially designed to work in chemical process applications, at temperatures up to 300°C. It fulfils the most demanding needs of customers with the adaptation of mechanical seals according to the EN 12756 standards and the addition of API plans.

The RBQP Inox is a self-priming gear pump, and so, it does not require any priming process prior to the start-up. In addition, it allows the user to work without overflows in the installation and avoids any type of cavitation, unlike centrifugal pumps.

Specifications

Materials

Pump casing	SS 316, SS 904, Hastelloy...
Gears	PEEK
Pump's shaft	SS 316, SS 904, Hastelloy...
Cover and shaft's cover	SS 316, SS 904, Hastelloy...
Mechanical seal	Depending on the application
Bearing bracket and lantern	GG25

Technical data

Motor	Triphasic according to IEC 60034-30 standards
Eficiencia	- IE2 or IE3 for powers > 1CV - IE1 if the power < 1CV - It can be supplied up to IE5
Tensión	- Three-phase 230/400 V ± 10% up to 5,5 CV - Three-phase 400/600 V ± 10% from 7,5 CV
Polos	4 and 6
Grado de protección	IP55
Aislamiento	Class F inslutaion

Usage limits

Range of flow rates	From 220 to 60000 l/h
Range of pressures	Up to 10 bar depending on the model
Max. working pressure	12 bar
Max. working temperature	300°C

Connections

Connections	Suction	Discharge
RBQP-3 Inox	3/8	3/8
RBQP-5 Inox	3/4	3/4
RBQP-10/16 Inox	1"	1"
RBQP-17/25/35/50/65 Inox	1" ¼	1" ¼
RBQP-100/140	2" ½	2" ½
RBQP-250(OR/ER/SR)	3"	3"
RBQP-400(OR/SR)/600	4"	4"

Model characteristics

	Power		Tension	I	n	P _{MAX.}	Flow
	CV	kW	V	A	rpm	kg/cm ²	l/h
RBQP-3 Inox	0,5	0,37	230/400T	2,5/1,5	1450	10	220
RBQP-5 Inox	0,5	0,37	230/400T	2,5/1,5	1450	10	500
RBQP-10 Inox	1	0,75	230/400T	3,6/2,1	1450	10	1000
RBQP-16 Inox	1	0,75	230/400T	3,6/2,1	1450	6	1600
RBQP-25 Inox	2	1,5	230/400T	7,1/4,1	950	10	2500
RBQP-35 Inox	3	1,5	230/400T	8,8/5,1	1450	8	3500
RBQP-50 Inox	4	3	230/400T	12,3/7,1	1450	10	5000
RBQP-65 Inox	5,5	4	230/400T	16/9,3	1450	8	6500
RBQP-100 Inox	5,5	4	230/400T	16/9,3	950	10	10000
RBQP-140 Inox	7,5	5,5	400/660	22,5/13	1450	7	14000
ORBQP-250 Inox	5,5	4	400/600	16/9,3	1450	2	25000
ERBQP-250 Inox	7,5	5,5	400/600	22,5/13	1450	4	25000
RBQP-250 Inox	10	7,5	400/600	34,6/20	1450	8	25000
SRBQP-250 Inox	12,5	9	400/600	34,6/20	1450	8	25000
ORBQP-400Inox	10	7,5	400/600	14,4	1450	2	40000
RBQP-400 Inox	15	11	400/600	21,1	1450	4	40000
SRBQP-400 Inox	25	18,5	400/600	34,2	1450	8	40000
RBQP-600 Inox	25	18,5	400/600	34,2	1450	6	60000

DESIGN

