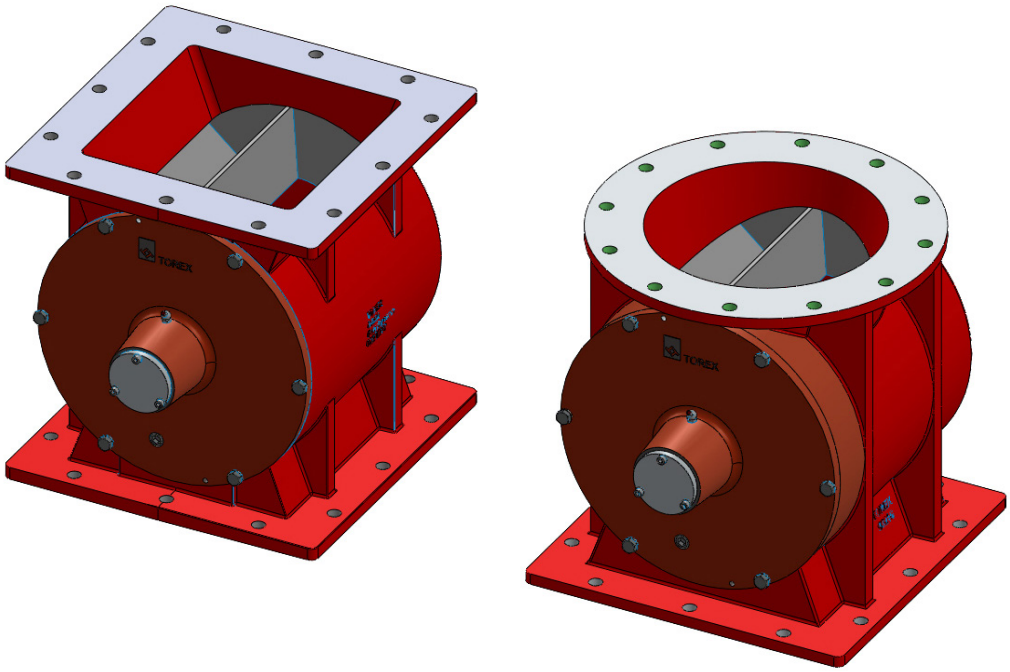
EN

RV-RVR

ROTARY VALVES

3

SPARE PARTS CATALOGUE



Manual No. TOR.RV-RVR.--.R.A1.0517.EN Issue: A1 Latest update: May 2017
ORIGINAL INSTRUCTIONS IN ENGLISH

TOREX S.p.A.
Via Canaletto, 139/A
I-41030 S. Prospero s/S
(MO) - Italy

☎ + 39 / 059 / 8080811
fax + 39 / 059 / 908204
e-mail torex@torex.it
internet www.torex.it

WAMGROUP

TOREX®

All the products described in this catalogue are manufactured according to **TOREX S.p.A. Quality System procedures**. The Company's Quality System, certified according to **ISO 9001-2008** guarantees that the entire production process, from the customer's order to the after sales service, can fulfil the product quality standard.

This publication cancels and replaces any previous edition and revision.
We reserve the right to implement modifications without notice.
This catalogue cannot be reproduced, even partially, without prior written consent by the Manufacturer.

TABLE OF CONTENTS

1.0 SPARE PARTS.....1

BARE SHAFT DROP THROUGH ROTARY VALVES

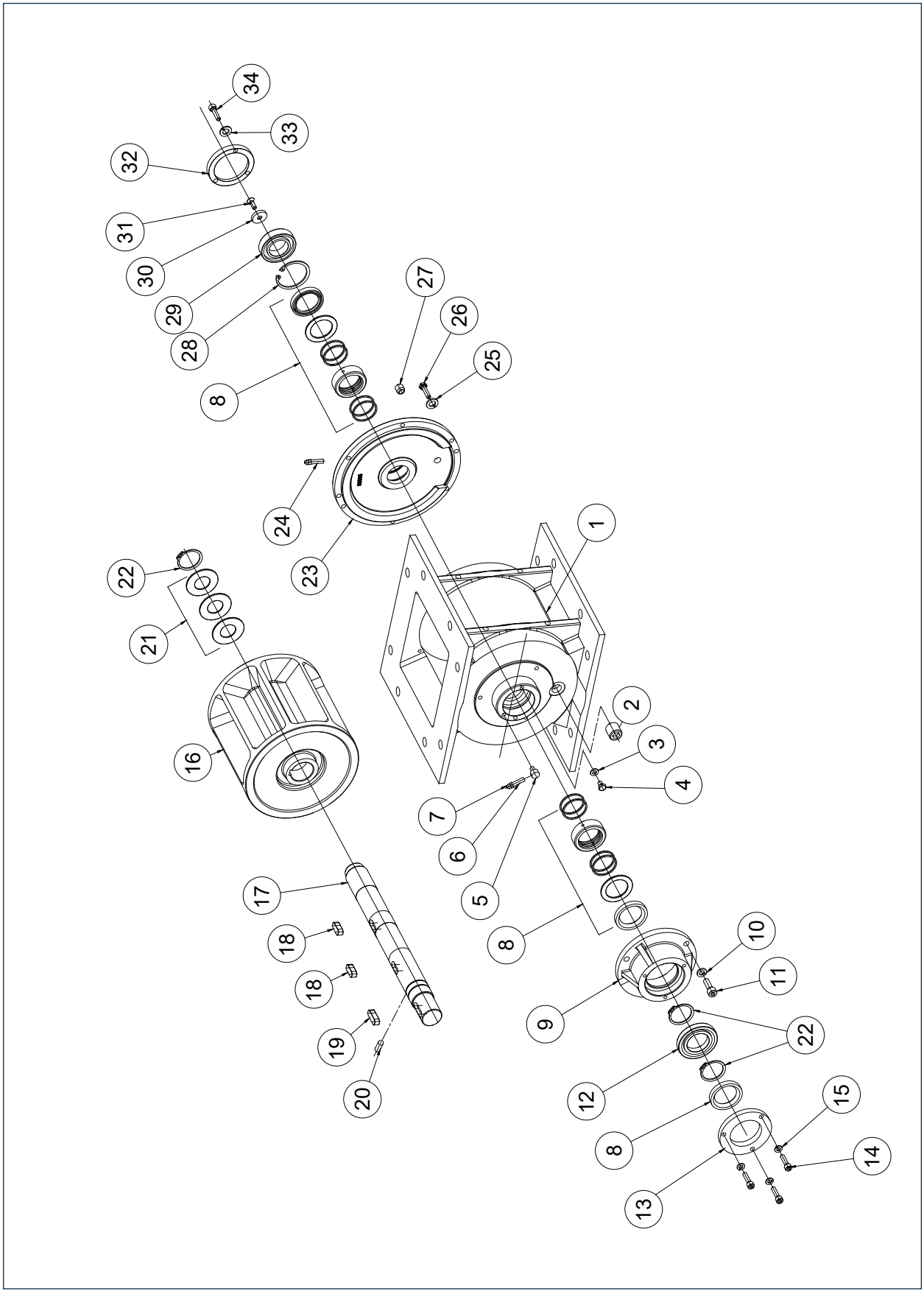


Table 1: Bare shaft drop through rotary valves

Item Pos.	Quantity	DESCRIPTION	RV-RVR 02	RV-RVR 05	RV-RVR 10	RV-RVR 20
1	1	Casing	See table 5			
2	1	Grub Screw ECEI	T-4538021320		4538021330	
		Grub Screw ECEI AISI 304	4538021322		4538021332	
3	2	Flat washer	Ø6 ISO 7089			
4	2	TE Screw	M6x10 ISO 4017			
5	1	Angular greasing nipple	2926020130			
6	1	Grease nipple extension	20951071A			
7	1	Nipples	2926020125	2926020120		
8	1	RV bare shaft seals kit	13003011A		13003021A	
		RV bare shaft high temperature seals kit	13003012A		13003022A	
9	1	Bare shaft support	20903411B	T-20903421A	T-20903431A	
10	4	Spring washer	Ø8 ISO 7980	Ø10 ISO 7980	Ø12 ISO 7980	
11	4	TCEI Screw	M8x25 4762	M10x25 ISO 4762	M12x30 ISO 4762	M12x30 ISO 4762
12	1	Bearing	3604ZK2580 (type 16007 35x62x9)	3604ZK0085 (type 6007 2RS 35x62x14)	3604ZK1105 (type 6307 2RS 35x80x21)	
13	1	Bare shaft support cover	-		-	
14	3	TCEI Screw	M6x20 ISO 4762		M8x20 ISO 4762	
15	3	Spring washer	Ø6 ISO 7980		Ø8 ISO 7980	
16	1	Rotor	See table 4			
17	1	Pinion shaft	20950271A	20950291A	20950311A	20950331A
		SS 304 pinion shaft	20950272A	20950292A	20950312A	20950332A
18	2	Key	10x8x25 ISO 773		10x8x40 ISO 773	
19	1	Key	10x8x30 ISO 773		10x8x40 ISO 773	
20	1	Cylindrical pin	Ø6x20 ISO 8734-A			
21	3	Belleville spring	Ø35.5xØ51.5x0.8 ISO 8839 A			
22	3	Snap ring	Ø35 DIN 471			
23	1	Cover	See table 6			
24	1	Nipples	2926020120			
25	6	Spring washer	Ø6 ISO 7980	Ø8 ISO 7980	Ø10 ISO 7980	
26	6	TE Screw	M6x20 ISO 4017	M8x25 ISO 4017	M10x25 ISO 7980	
27	1	Grub Screw ECEI	3/8 GAS DIN 906		1/2 GAS DIN 906	
28	1	Snap ring	Ø50 DIN 472			
29	1	Bearing	3604ZK0075 (type 6006 2RS 30x55x13)		3604ZK0585 (type 6206 2RS 30x62x16)	
		High temperature bearing	3604ZK0077 (type 6006 2RS 30x55x13)		3604ZK0600 (type 6206 2RS 30x62x16)	
30	1	Spacer washer	20985401A			
31	1	TPSEI Screw	M10x30 ISO 10462			
32	1	Base plate	20903001C	20903001B	20903391B	
33	3	Spring washer	Ø6 ISO 7980			
34	3	TCEI Screw	M6x25 ISO 4762	M6x20 ISO 4762		

DIRECT MOTOR-OPERATED VALVE

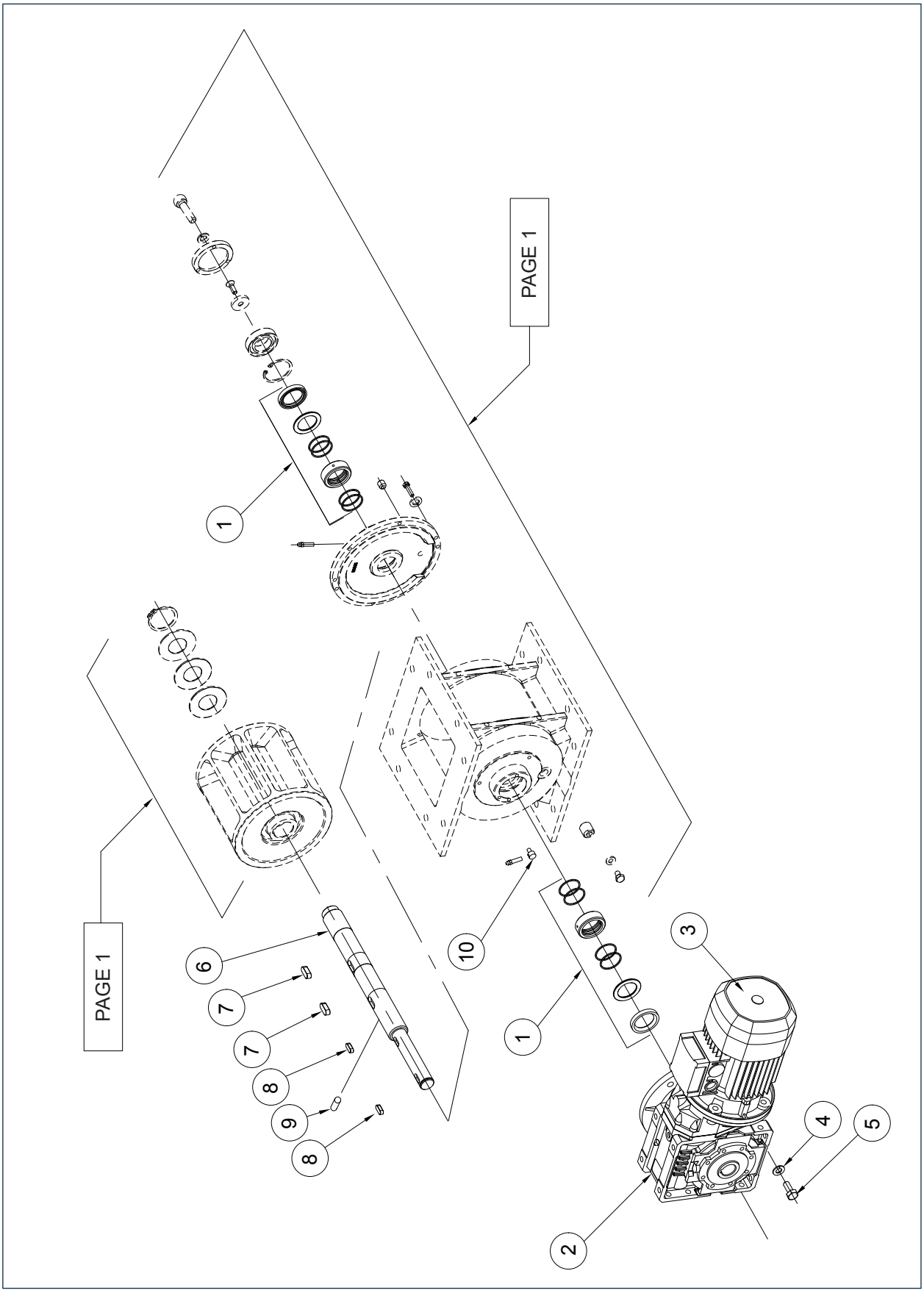


Table 2: Direct motor-operated valve

Item Pos.	Quantity	DESCRIPTION	RV-RVR 02	RV-RVR 05	RV-RVR 10	RV-RVR 20
1	1	Motor-operated RV seals kit	13003001A			
		Motor-operated RV high temperature seals kit	13003002A			
2	1	Gear reducer	See table 8			
3	1	Motor	See table 8			
4	4	Spring washer	Ø10 ISO 7980		Ø12 ISO 7980	
5	4	TE Screw	M10x20 ISO 4017		M12x25 ISO 4017	
6	1	Shaft	20950281A	20950301A	20950321A	20950341A
		SS 304 shaft	20950282A	20950302A	20950322A	20950342A
7	2	Key	8x7x20 ISO 773	10x8x25 ISO 773	10x8x40 ISO 773	
8	2	Key	10x8x25 ISO 773	8x7x32 ISO 773	10x8x40 ISO 773	
9	1	Cylindrical pin	Ø6x20 ISO 8734-A			
10	1	Angular greasing nipple	M10x1 90° UNI 7663B			

VALVES WITH CHAIN TRANSMISSION

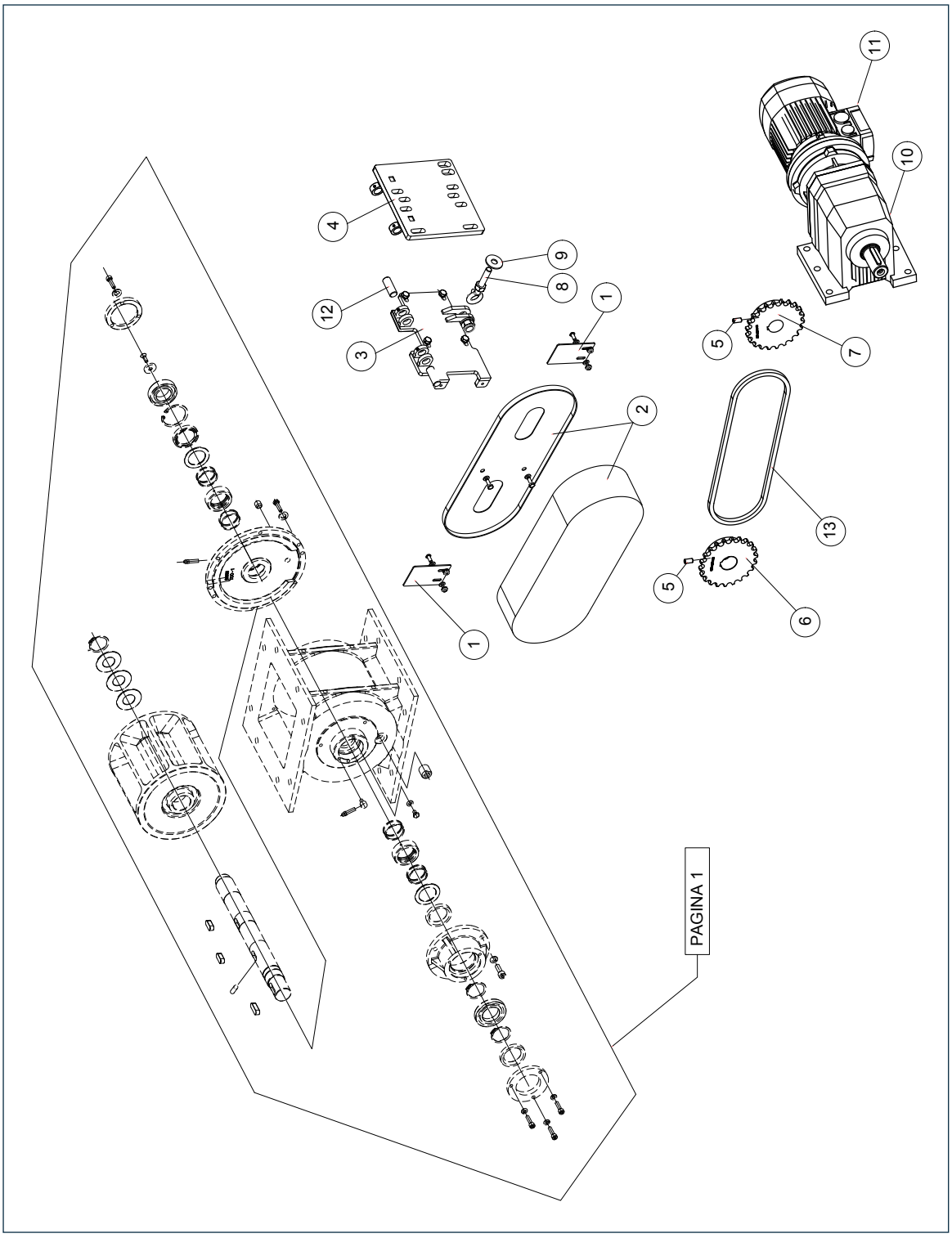


Table 3: Valves with chain transmission

Item Pos.	Quan-tity	DESCRIZIONE	RV-RVR 02	RV-RVR 05	RV-RVR 10	RV-RVR 20
1	2	Guard closing plate	20902111A			
2	1	Safety guard	20902001A		T-20902051A	20902101A
3	1	Fixed plate	20685071C	20685081D	20685091D	
4	1	Mobile plate	20640121B	20640121C	20640221C	
5	2	ECEI Grub screw	M5x5 AISI304 UNI5923			
6	1	Valve pinion	Vedi tabella 9			
7	1	Gear reducer pinion	Vedi tabella 9			
8	2	Eyebolt	2932040500	514003428	514003429	
9	2	Washer	mm12 x 36			
10	1	Gear reducer	Vedi tabella 9			
11	1	Motor	Vedi tabella 9			
12	2 - 3	Hinge pin	20952601A (qty 2)			20952661A (qty 3)
13	1	Simple roller chain	3302FK0030 (5/8")			3302FK0025 (3/4")
	4	Fake chain link	T-3302FK0520			3302FK0515
	1	Junction chain link	3304RE0520			3304RE515

ROTORS

Table 4

RV - RVR		Carbon steel	Cast iron*	SS 304	SS 316
02	Standard	-	20932331A	20932332A	20932333A
	Flaps	-	20932450A	20932452A	20932453A
05	Standard	-	20932341A	20932342A	20932343A
	Flaps	-	20932460A	20932462A	20932463A
10	Standard	20932381A	-	20932382A	20932383A
	Flaps	20932471A	-	20932472A	20932473A
20	Standard	20932481A	-	20932482A	20932483A
	Flaps	20932491A	-	20932492A	20932493A

* For cast iron and steel rotors are available surface treatments such as nickel plating, Teflon and tungsten carbides coating. Contact TOREX® for the code related.

BODY SPARE PARTS

Table 5

RV	Cast iron*	SS 304	SS 316
RV 02	20932291A	20932292A	20932293A
RV 05	20932301A	20932302A	20932303A
RV 10	20932391A	20932392A	20932303A
RV 20	20932321A	20932322A	20932323A

RVR	Cast iron*	SS 304	SS 316
RVR 02	20932101A	20932102A	20932103A
RVR 05	20932121A	20932122A	20932123A
RVR 10	20932141A	20932142A	20932143A
RVR 20	20932161A	20932162A	20932163A

* For cast iron bodies are available surface treatments such as nickel plating, Teflon and tungsten carbides coating. Contact TOREX® for the code related.

COVERS

Table 6

RV RVR	Cast iron*	SS 304	SS 316
02	20903351A	20903352A	20903353A
05	20903361A	20903362A	20903363A
10	20903371A	20903372A	20903373A
20	T-20903441A	20903442A	20903443A

* For cast iron covers are available surface treatments such as nickel plating and Teflon coating. Contact TOREX® for the code related.

FLAPS

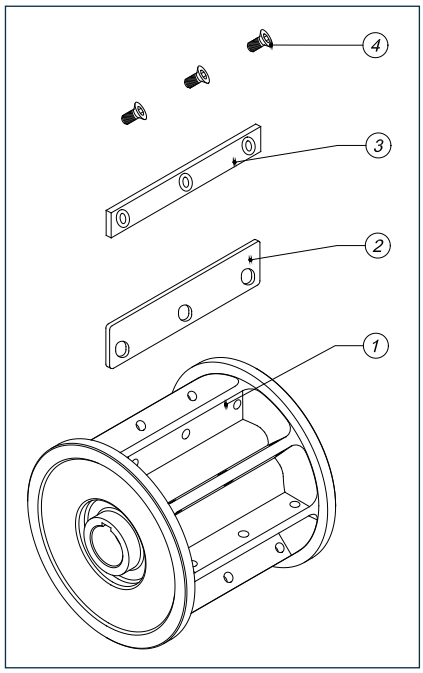


Table 7a

RV RVR	Rotor (1)	Flaps (2)				Strip-holder plate (3)		Trapezoidal (4)	
		Spring steel	Vulkolan	Viton	Teflon	Aluminium	SS	Steel	SS
02	Tab. 4	13001001A	13001002A	13001003A	13001004A	13001501A	13001502A	13002001A	13002003A
05	Tab. 4	13001011A	13001012A	13001013A	13001014A	13001511A	13001512A	13002011A	13002013A
10	Tab. 4	13001021A	13001022A	13001023A	13001024A	13001521A	13001522A	13002021A	13002023A
20	Tab. 4	13001031A	13001032A	13001033A	13001034A	13001531A	13001532A	13002031A	13002033A

Table 7b: Chamfered blades inserts kit

RV - RVR	Rotor Material (1)	Chamfered blades insert kit SS 304 (2) (4)
02	Cast iron	13001008A
	SS	13001007A
05	Cast iron	13001018A
	SS	13001017A
10	-	13001027A
20	-	13001037A

Table 7c

RV - RVR	Complete flaps kit (2) (3) (4)			
	Spring steel	Vulkollan	Viton	Teflon
02	13R01101A	13R01102A	13R01103A	13R01104A
05	13R01201A	13R01202A	13R01203A	13R01204A
10	13R01301A	13R01302A	13R01303A	13R01304A
20	13R01401A	13R01402A	13R01403A	13R01404A

GEAR REDUCERS, MOTORS AND DRIVES

Table 8

Type		Gear reducer	Motor	Drive
RV - RVR 02	10 rpm	7202ST0400	MV0710B04145	
	20 rpm	7202ST0100	MV0800B06144	
	30 rpm	7202ST0100	MV0800A04144	
	VM	7202ST0100	MV0710B04145	8202M01730
RV - RVR 05	10 rpm	7202ST0400	MV0710B04145	
	20 rpm	7202ST0100	MV0800B06144	
	30 rpm	7202ST0100	MV0800B041443	
	VM	7202ST0100	MV0710B04145	8202M01730
RV - RVR 10	10 rpm	7202ST0500	MV0800A04145	
	20 rpm	7202ST0120	MV0900S061443	
	30 rpm	7202ST0120	MV0900S041443	
	VM	7202ST0120	MV0800B041443	8202M01760
RV - RVR 20	10 rpm	7202ST0500	MV0800B041443	
	20 rpm	7202ST0120	MV0900L061443	
	30 rpm	7202ST0120	MV0900L041443	
	VM	7202ST0120	MV0800B041443	8202M01760

CHAIN TRANSMISSION VALVES DRIVE UNITS

Table 9

RV- RVR 02 / RV - RVR 05			
RPM rpm	Motor	Gear reducer	Pinions
10	0.37 kW 4poles cod.MV0710B04145	7202BO1420	T-20964721A T-20964451A
20	0.55 kW 6poles code MV0800B06145	7202BO1304	T-20964581A T-20964451A
30	0.55 Kw 4poles code MV0800A04145	7202BO1304	T-20964581A T-20964451A

RV - RVR 10			
RPM rpm	Motor	Gear reducer	Pinions
10	0.55 kW 4poles code MV0800A04145	7202B01303	T-20964721A T-20964401A
20	0.75 kW 6poles code MV0900S061443	7202BO1307	T-20964651A T-20964501A
30	1.1 kW 4poles code MV0900S041443	7202BO1307	T-20964651A T-20964501A

RV - RVR 20			
RPM rpm	**Motor**	**Gear reducer**	**Pinions**
10	0.55 kW 4poles code MV0800A04145	7202BO1303	T-20964911A 20964861A
20	1.1 kW 6poles code MV0900L061443	7202BO1307	T-20964911A T-20964901A
30	1,1 kW 4poles code MV0900S041443	7202BO1307	T-20964911A T-20964901A

ROTORS CHOKERS

Table 10

RV RVR	Built-in rotor	Strips rotor
02	13000501A	T-13000551A
05	13000601A	13000651A
10	13000701A	13000751A
20	13000801A	13000851A

ROTATION INDICATORS

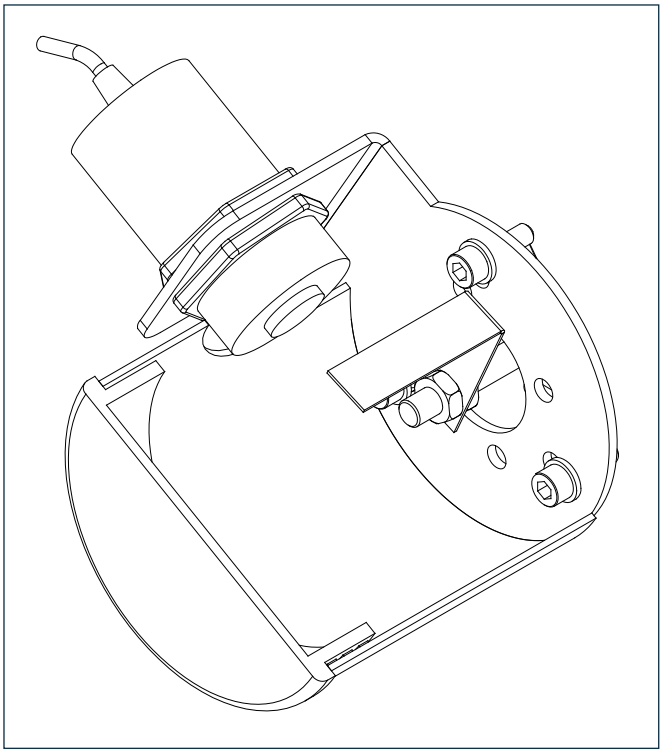


Table 11

Spare part	code
Complete kit with sensor	13R00001A
Complete kit with no sensor	13R00011A
Rotation sensor	3860IF0050

SPARE PARTS FOR IRREGULAR SHAPE MATERIALS (RV ONLY)

Type	DOUBLEDEFLECTORFORGRANULES	INSERT FOR GRANULES
RV 02	20623002A	438014933
RV 05	20623052A	438014934
RV 10	20623102A	438014935
RV 20	20623152A	438014936

RECOMMENDED SPARE PARTS

Table 13

SPARE PARTS	Direct drive	Coaxial drive	Bare shaft
Seals kit			
Idle side bearing			
Pinion side bearing			
Flaps			