

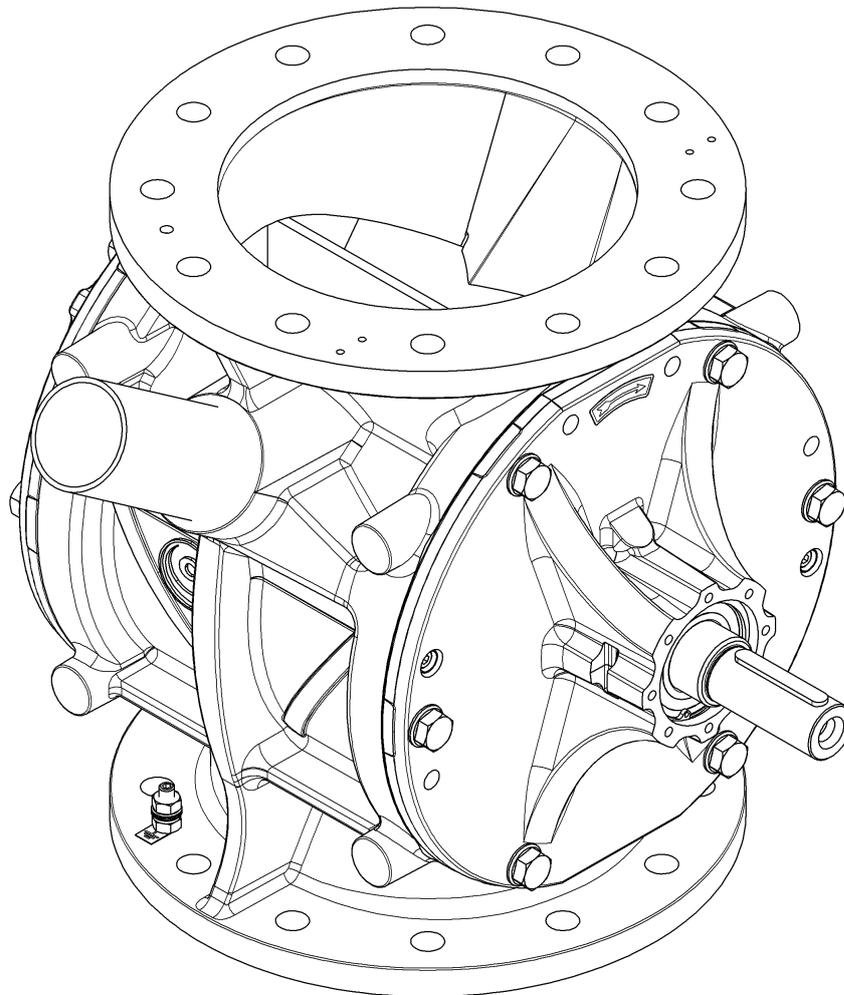
Spare Parts Catalogue

Rotary valves

Typ ZVB, ZGB, ZGM

Spare Parts Catalogue Number

S55654_GB_2021-09



If necessary, contact our Service Center:

Mailing address:	Plant and delivery address:
Coperion GmbH	Coperion GmbH
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Fax:	+49 / 751 4 08-200
Email:	service@coperion.com

To be able to ensure smooth and speedy handling, we need the following information from you:

- Serial number (information on the name plate)
- Type designation
- Coperion contract number with assembly (if available)
- Operating data (information on the name plate)
- Description of the problem

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Subject to change.
(PLZ 91550)

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1 Spare and wear parts

1.1 Spare parts inventory

Having the most important spare and wear parts on hand at the setup location is an important condition for the continuous operation and operational readiness of the rotary valve.

Please use the spare parts list to order spare parts.

The spare parts drawings listed in the spare parts list can provide additional information.

We only guarantee the genuine spare parts that we supply.

We expressly state that genuine spare parts and accessories not supplied by us have also not been tested or approved by us. Installing and/or using such products may have a negative impact, under certain circumstances, on the properties of the rotary valve specified in the design and consequently may impair active and/or passive safety. Coperion does not assume any liability or provide any warranty for damage resulting from the use of non-genuine spare parts and accessories.



Malfunction or failure of the machine resulting from poor-quality spare parts!

When being used in potentially explosive atmospheres and/or as a protection system, poor-quality or incorrect spare parts may lead to the creation of an ignition source and may trigger explosions.

- ▶ Use only genuine Coperion spare parts.
- ▶ The use of genuine spare parts is required, depending on national specifications.

Keep in mind that, for in-house or foreign parts, there are often special manufacturing and shipment specifications. We always offer you spare parts that are up-to-date and that comply with the latest legislative regulations.

When ordering spare parts, specify the following data:

Machine data:

- Serial number (information on the name plate)
- Type designation (information on the name plate)
- Coperion contract number with assembly (if available)

Spare part data:

- Repair manual number (see the cover sheet)
- Item
- Name
- Quantity

1.2 Service

Regular service performed by our technical personnel is recommended. We would like to increase the operational readiness of your components even after being in service for a long time. For this, we offer the services provided by our Service Center.

- We would be happy to negotiate a maintenance contract with you. With such a contract, we do not just perform the actual maintenance activities, we also monitor maintenance cycles, etc. This works very simply: We enter you into our service EDP file and contact you to schedule a time automatically.
- If you wish to perform maintenance yourself, we would be glad to train your operating personnel intensively regarding the operation and maintenance of Coperion components. In our Technical Center and our training rooms, we give courses that provide comprehensive knowledge about rotary valves, shut-off devices and diverter elements. This improves the option of in-house maintenance and correcting malfunctions.
- Of course, we would also be glad to perform the installation and commissioning of your Coperion components.



Malfunction / failure of the machine due to poor maintenance!

When used in a potentially explosive atmosphere and / or when used as a protection system, inadequate or incorrect maintenance can lead to an ignition source and explosions.

- ▶ Exclusive maintenance by qualified and currently trained personnel.
- ▶ Maintenance by COPERION-Service.

If necessary, contact our Service Center:

Coperion GmbH
Niederbiegerstraße 9
D-88250 Weingarten

Tel: +49 / 751 4 08-0
+49 / 751 4 08-450 (service number)
Fax: +49 / 751 4 08-200



Information

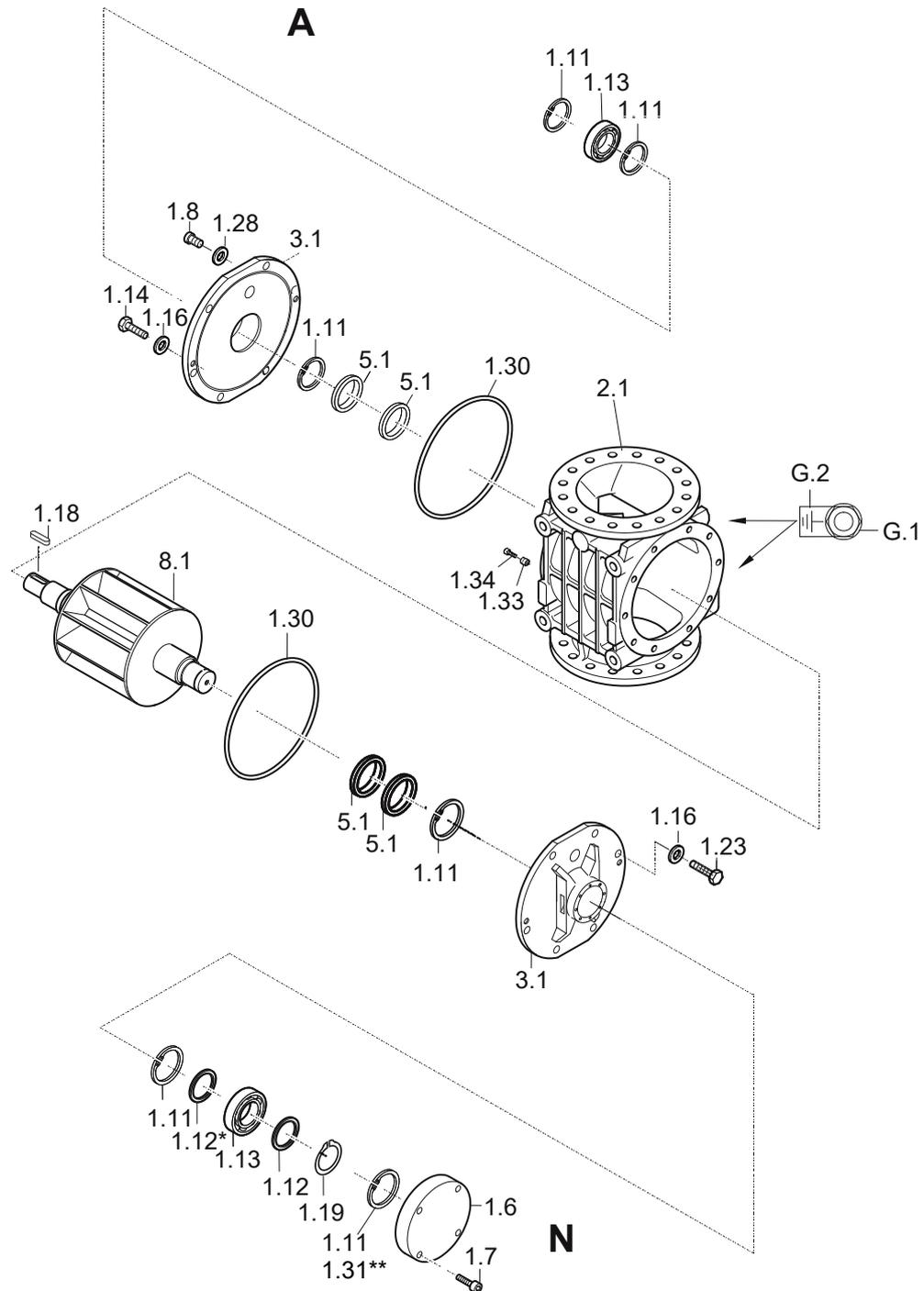
For safety reasons, use only genuine Coperion spare parts.

To be able to ensure smooth and speedy handling, we need the following information from you:

- Serial number (information on the name plate)
- Type designation
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- Description of the problem

1.3 Exploded-view drawing and parts lists

1.3.1 Standard version (“.1” version), sizes 200-550



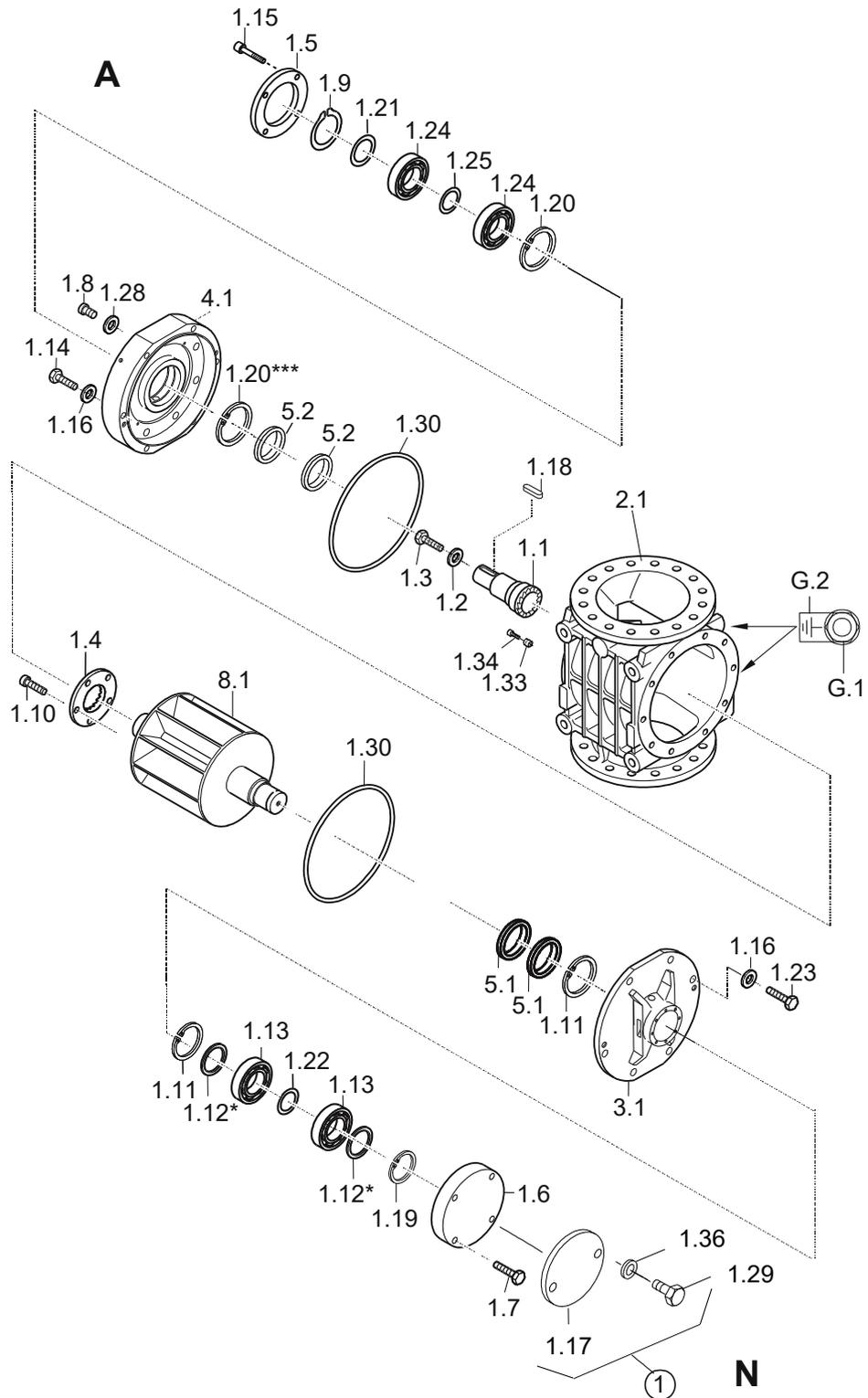
A = Driven end

N = Non-driven end

* Only with sizes 250 and 320

** Only with sizes 480 and 550

1.3.2 Quick cleaning ("2" version), sizes 200-480



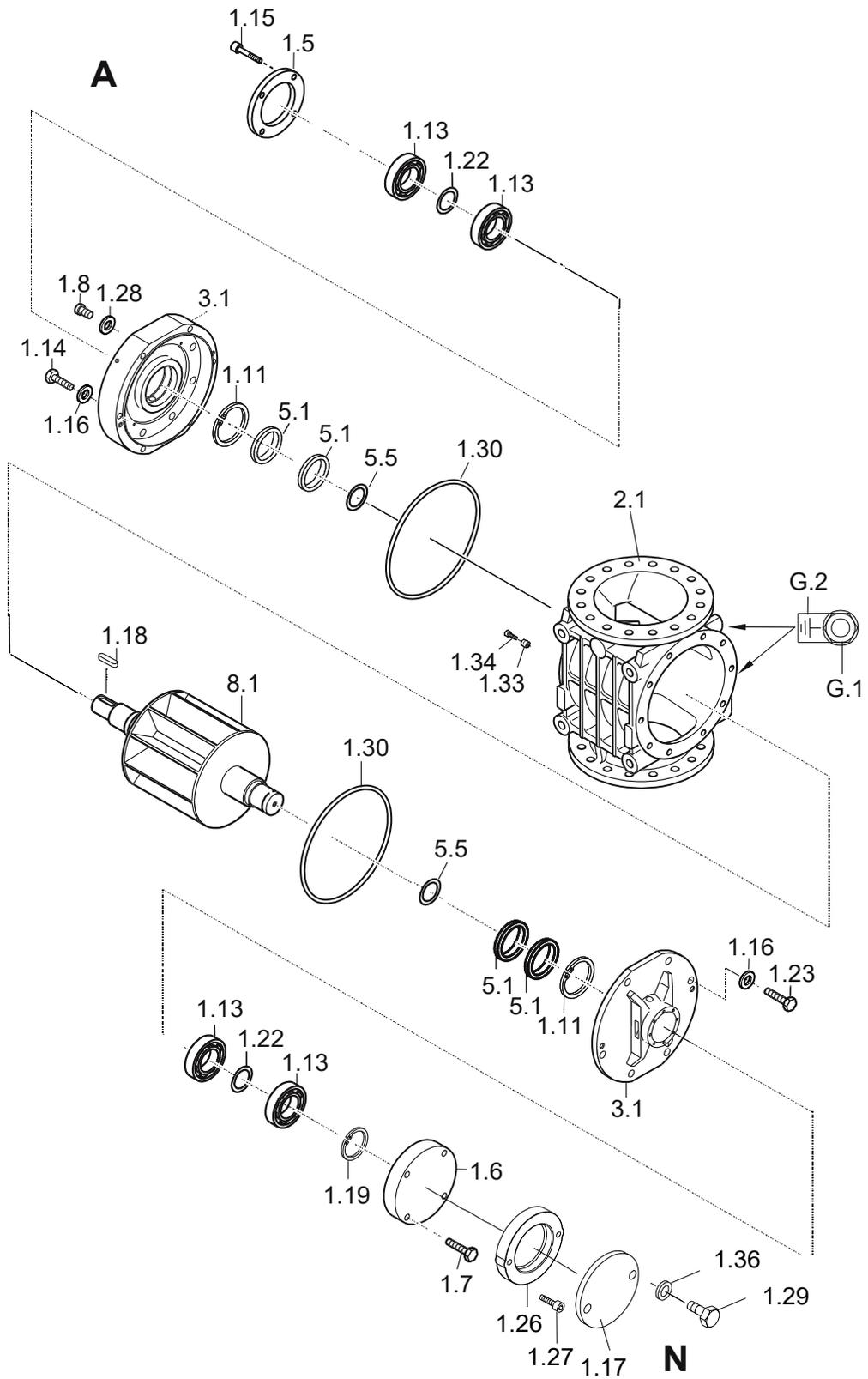
A = Driven end

N = Non-driven end

* Only with sizes 250 and 320

*** Not used with sizes 320 and 400

1.3.3 Standard version ("1" version), size 630



A = Driven end

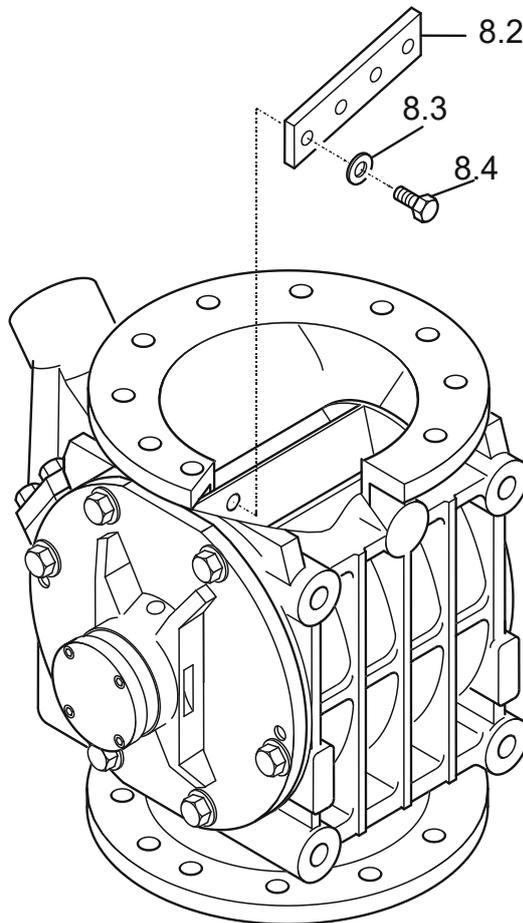
N = Non-driven end

Item	Name	Pieces/device
1	BASE UNIT	
1.1	Driving sleeve	1
1.2	Seal ring	1
1.3	Hexagon bolt	1
1.4	Quick cleaning coupling	1
1.5	Bearing ring	1
1.6	Cover plate /bearing cover	1
1.7	Bolt	Depending on the version
1.8	Screwed plug	2
1.9	Retaining ring	1
1.10	Cylinder head bolt	5
1.11	Retaining ring	Depending on the version
1.12	Supporting ring	Depending on the version
1.13	Deep-groove ball bearing	Depending on the version
1.14	Hexagon bolt	Depending on the version
1.15	Cylinder head bolt	Depending on the version
1.16	Washer	Depending on the version
1.17	Cover plate	1
1.18	Feather key	1
1.19	Retaining ring/bolt (depending on the version)	1
1.20	Retaining ring	2
1.21	Supporting ring	1
1.22	Shim	2
1.23	Hexagon bolt	Depending on the version
1.24	Deep-groove ball bearing	2
1.25	Shim	2
1.26	Spacer ring	1
1.27	Cylinder head bolt	4
1.28	Seal ring	2
1.29	Hexagon bolt	Depending on the version
1.30	O-ring	2
1.31	Retaining ring	Depending on the version
1.33	Centering sleeve	4
1.34	Cylinder head bolt	4
1.36	Washer	Depending on the version
2	HOUSING	
2.1	Housing ZV	1
2.1	Housing ZG	1

Item	Name	Pieces/device
3	Side cover	
3.1	Side cover	Depending on the version
4	Side cover .2	
4.1	Side cover	1
5	SHAFT SEAL	
	WN / WF / WG	
5.1	Shaft seal	Depending on the version
5.2	Shaft seal	2
5.5	Ring	2

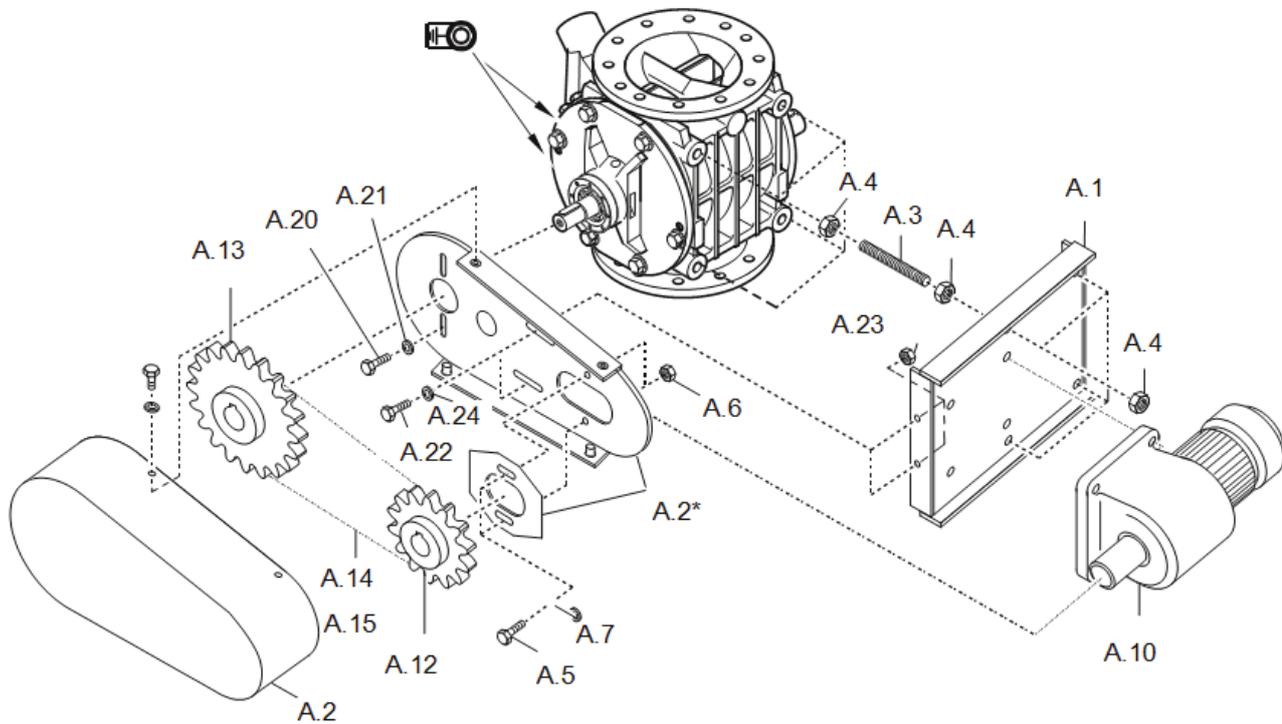
2 Accessories

2.1 Wear blades



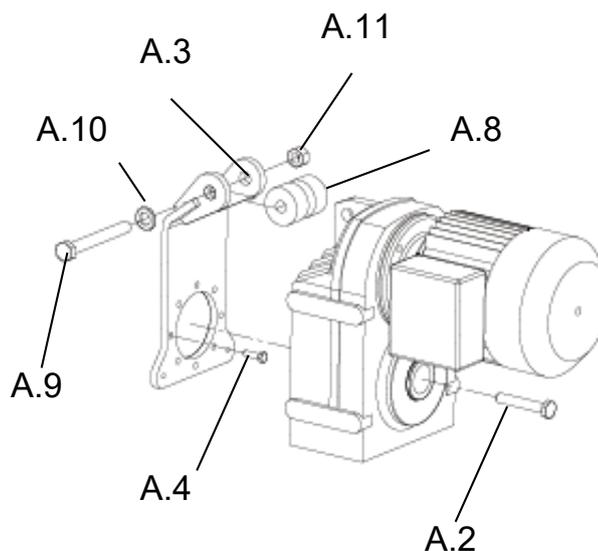
Item	Name	Pieces/device
8	ROTOR	
8.1	Rotor	1
8.2	Wear blade	1
8.3	Washer	4
8.4	Hexagon bolt	4

2.2 Motor attachment – chain drive



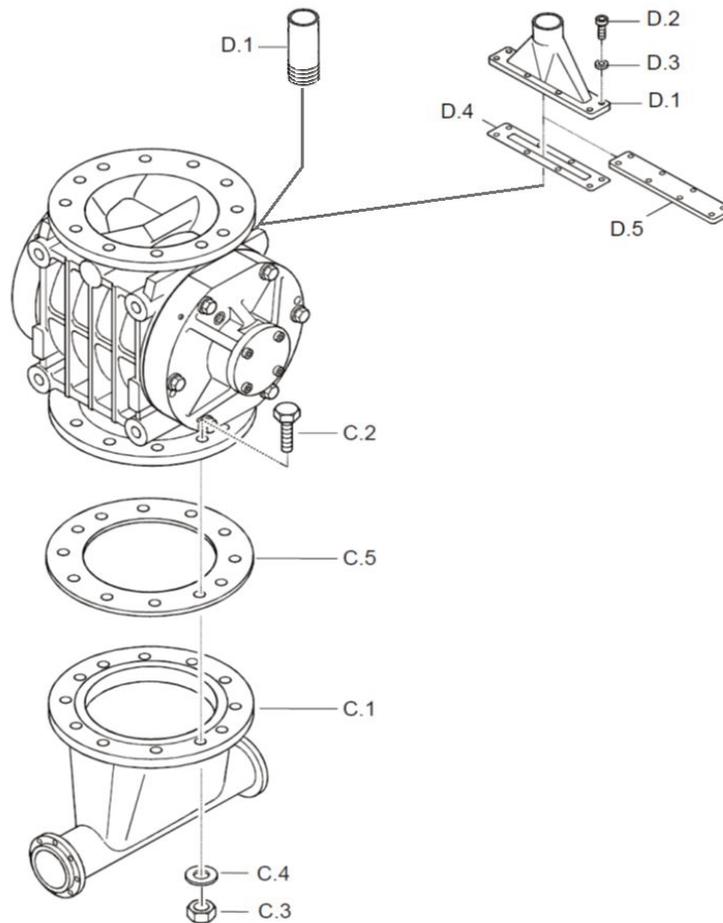
Item	Name	Pieces/device
A	MOTOR ATTACHMENT	
	Gear motor with chain drive	
A.1	Motor plate	1
A.2	Chain box, complete	1
A.3	Threaded rod	4
A.4	Hexagon nut	12
A.5	Hexagon bolt	4
A.6	Hexagon nut	4
A.7	Washer	8
A.10	Gear motor	1
A.12	Chain sprocket, motor	1
A.13	Chain sprocket, rotary valve	1
A.14	Roller chain	1
A.15	Chain connecting link	1
A.20	Hexagon bolt	2
A.21	Washer	2
A.22	Hexagon bolt	2
A.23	Hexagon nut	2
A.24	Washer	2
A.25	Rubber guide	1

2.3 Motor attachment – direct drive



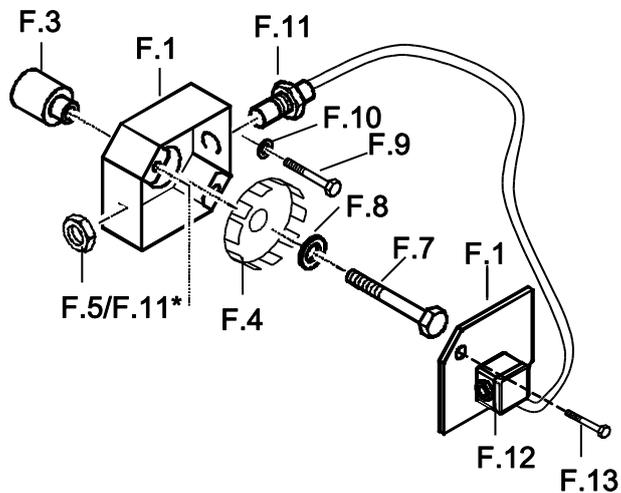
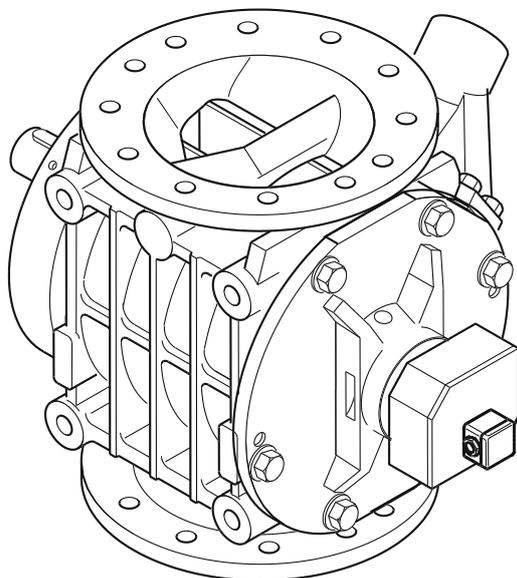
Item	Name	Pieces/device
A	Drive system	
	Gear motor with direct drive	
A.2	Hexagon bolt	1
A.3	Torque support	1
A.4	Hexagon bolt	Depending on the version
A.5	Washer	Depending on the version
A.6	Hexagon bolt	Depending on the version
A.7	Washer	Depending on the version
A.8	Rubber block support	2
A.9	Hexagon bolt	1
A.10	Washer	2
A.11	Hexagon nut	2

2.4 Leakage gas deduction and/ or pick-up tee



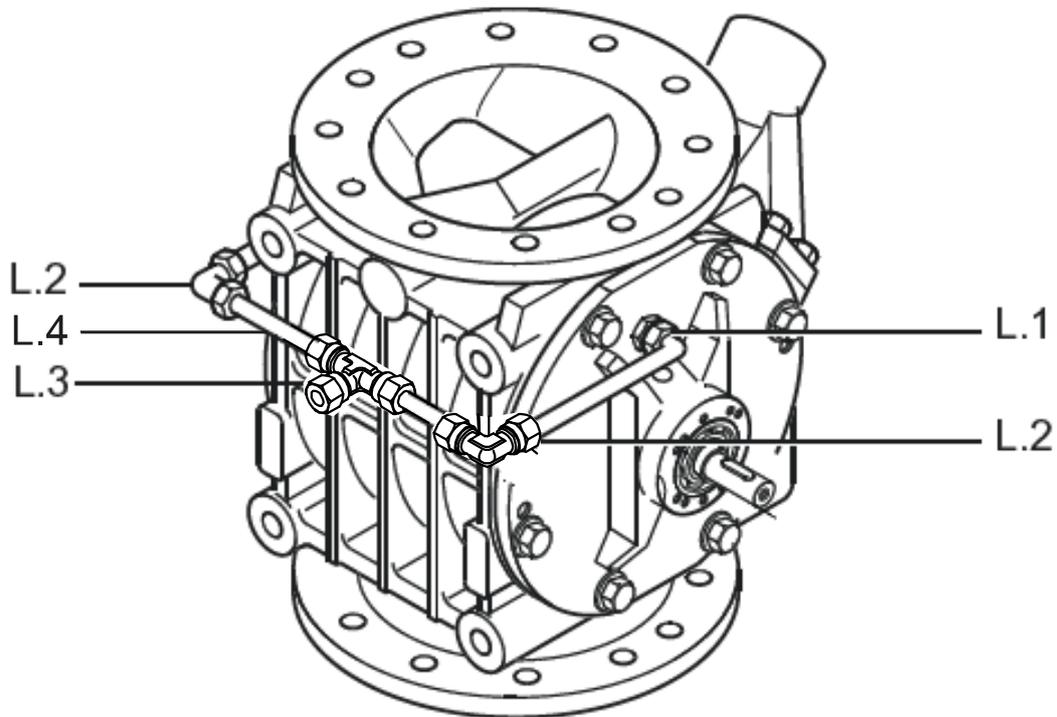
Item	Name	Pieces/device
C	PICK-UP TEE TYPE ZP_ / ZG_	
C.1	Pick-up tee	1
C.2	Hexagon bolt	-
C.3	Hexagon nut	-
C.4	Washer	-
C.5	Seal	1
D	HOUSING VENT	
D.1	Connection pipe ZG_ , ZV_	1 (up to size 630)
D.1	Housing vent ZG_ , ZV_	1 (starting at size 700)
D.2	Cylinder head bolt	- (starting at size 700)
D.3	Washer	- (starting at size 700)
D.4	Seal	1 (starting at size 700)
D.5	Blind cover	1 (starting at size 700)
D.1	Housing vent ZP_	1
D.2	Hexagon bolt	2
D.3	Washer	2
D.4	Seal	1
D.5	Blind cover	1

2.5 Rotational speed sensor



Item	Name	Pieces/device
F	ROTATIONAL SPEED SENSOR	
	Non-driven end	
F.1	Housing	1
F.3	Centering sleeve	1
F.4	Speed indicator	1
F.5	Washer with lug	1
F.7	Hexagon bolt	1
F.8	Washer	1
F.9	Hexagon bolt	2
F.10	Washer	2
F.11	Limit switch	1
F.12	Terminal box	1
F.13	Cylinder head bolt	2

2.6 Locking gas piping



Item	Name	Pieces/device
L	Gas lock for side cover	
L.1	Nipple	2
L.2	Right-angle connector	2
L.3	T-piece	1
L.4	Pipe	-

3 Appendix

3.1 Tightening torques

If no other data are provided, all fittings on the components must be tightened as per the following tables with due consideration given to the permissible mounting flanges:

Property class (bolt head)	Bolt size										
	M6	M8	M10	M12	M14	M16	M20	M24	M27	M30	M33
	Channel hole [mm]										
	6,4-7	8,4-10	10,5-12	13-14,5	15-16,5	17-18,5	21-24	25-28	28-32	31-35	34-38
Tightening torque M_a [Nm]											
5.6	4	15	21	36	57	90	176	302	446	610	815
8.8	9	23	45	77	122	192	375	645	951	-	-
10.9	14	33	66	114	179	282	551	947	1397	-	-
A2/A4 – 70	6	14	28	48	76	119	233	402	-	-	-
A2/A4 – 50	-	-	-	-	-	-	-	187	275	271	503

5.6 - 10.9: with washer, dry and zinc plated; A2/A4 – XX: with washer, greased

Property class (bolt head)	Bolt size									
	-	-	-	-	5/8"	3/4"	7/8"	1"	1 1/4"	
	Channel hole [mm]									
	-	-	-	-	17-19,1	20-22,2	23,2-25,4	26,4-28,6	32,8-34,9	
Tightening torque M_a [Nm]										
ASTM A 193 B7	-	-	-	-	291	418	679	1015	1827	
18 – 8	-	-	-	-	79	139	224	335	665	

ASTM A 193 B7: with washer, dry and zinc plated; 18 – 8: with washer, greased



Information

The tightening torques given in the tables above must not be exceeded.