

Spare Parts Catalogue

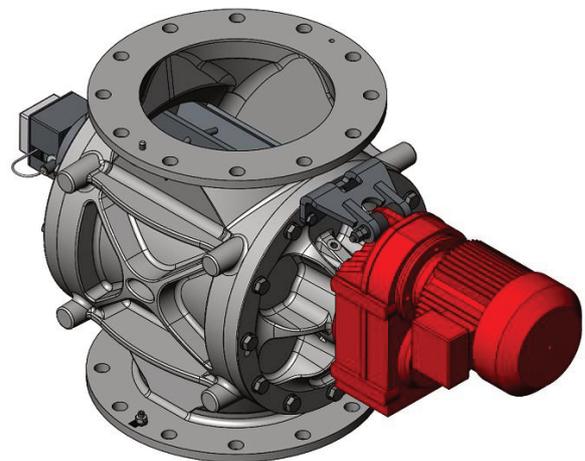
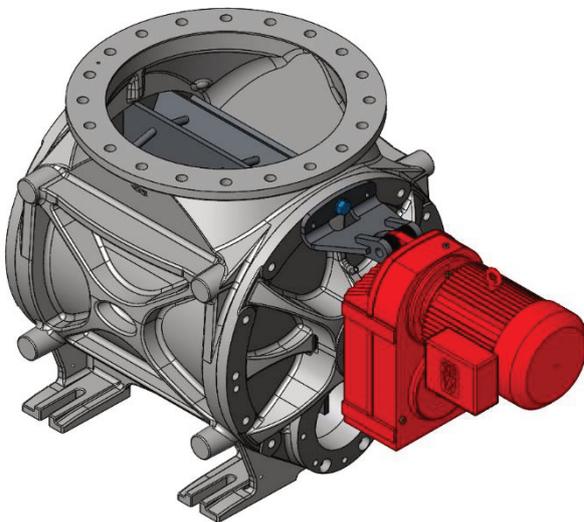
High-pressure rotary valves

Spare Parts Catalogue Number

S69306_GB_2021-09

Valve types:

ZXD 500
ZXQ 300 - 400
ZAQ 300



If necessary, contact our Service Center:

Mailing address:	Plant and delivery address:
Coperion GmbH Niederbieger Straße 9 D-88250 Weingarten	Coperion GmbH Eisenbahnstraße 15 D-88255 Baienfurt-Niederbiegen
Tel:	+49 / 751 4 08-0 +49 / 751 4 08-450 (service number)
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

© 2021 Coperion GmbH • D-88250 Weingarten

All rights reserved, in particular the rights of duplication, distribution and translation. No part of this manual may be saved, edited, reproduced or distributed using electronic systems or reproduced in any form (print, photocopy, microfilm or other method) without the written permission of the Coperion Co.

Subject to change.
(PLZ 91550)

Contents

1	Spare and wear parts	4
1.1	Spare parts inventory	4
1.2	Service	5
1.3	Exploded-view drawing and parts lists	6
2	Accessories	9
2.1	Purge gas piping, standard	9
2.2	Motor attachment, chain drive	10
2.3	Motor attachment, direct drive	11
2.4	Leakage gas removal and/or pick-up tee	12
2.5	Rotational speed sensor on the non-driven end	13
3	Appendix	14
3.1	Tightening torques	14

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



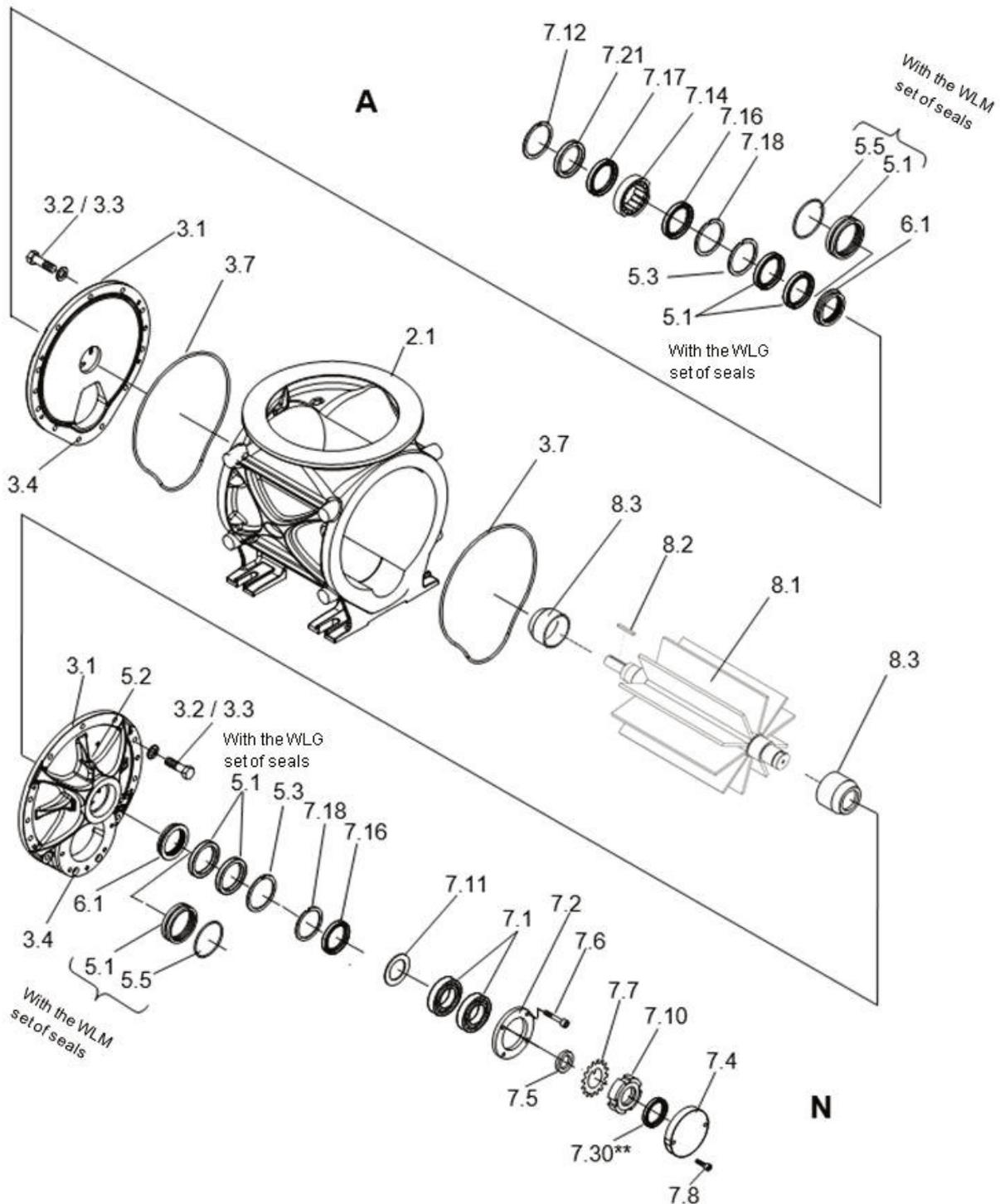
Information

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

1.3 Exploded-view drawing and parts lists



A = Driven end
N = Non-driven end

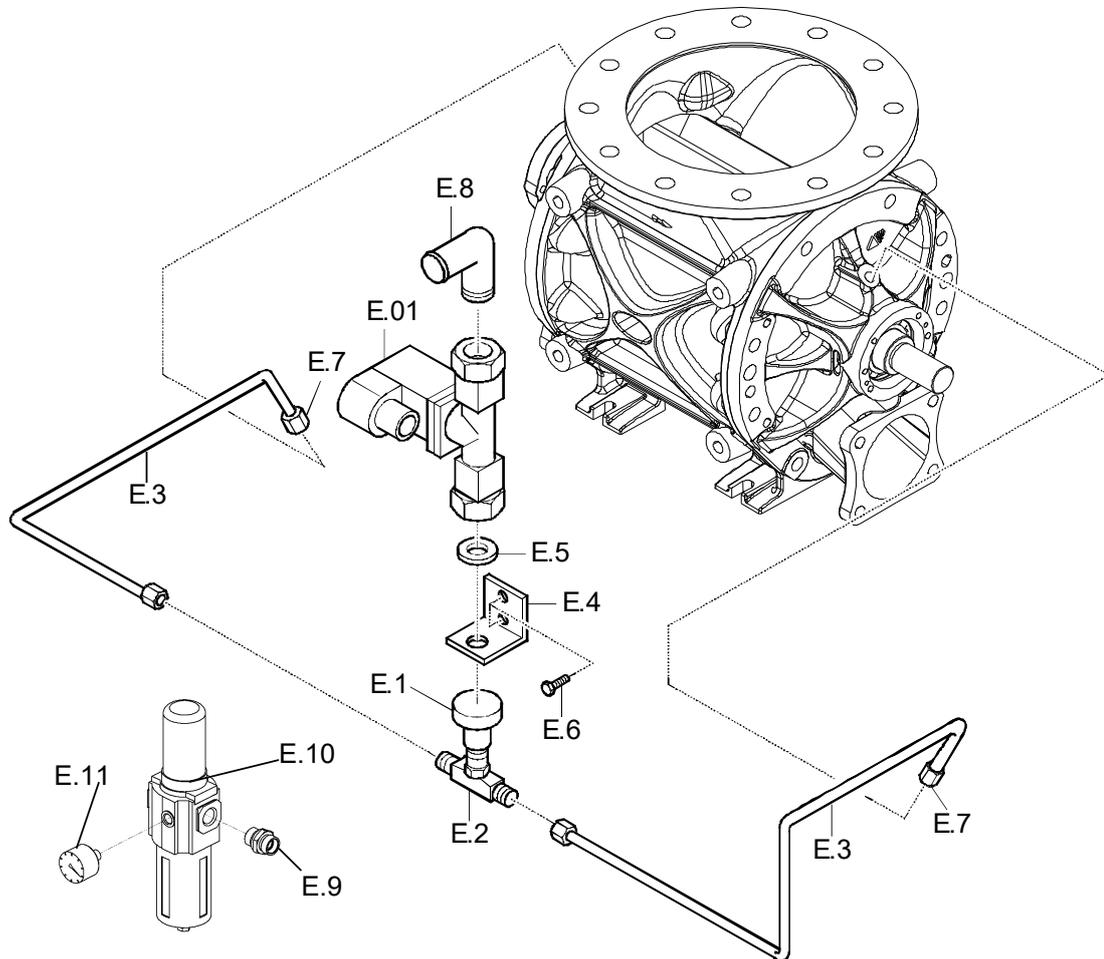
** Only with the rotational speed sensor attachment

Item	Name	Pieces/device
1	COMPONENT TYPE	
1.1	Label, type imprint	1
1.2	Warning label, rotor	1
1.3	Label, company imprint	1
1.4	Directional arrow, right	1
1.5	Notched nails	7
2	HOUSING	
2.1	Housing ZXD	1
2.1	Housing, ZXQ	1
2.1	Housing, ZAQ	1
3	SIDE COVER	
3.1	Side cover ZXD	1
3.1	Side cover, ZXQ	1
3.1	Side cover, ZAQ	1
3.2	Hexagon bolt	Depending on the type and size
3.3	Washer	Depending on the type and size
3.4	Cylinder head bolt	Depending on the type and size
3.5	Threaded plug	Depending on the type, only at delivery
3.6	Transport cover	Depending on the type, only at delivery
3.7	O-ring	2
5	SET OF SEALS	
	Type WLG	
5.1	Shaft seal, PTFE	4
5.2	Screwed plug	2
5.3	Retaining ring	2
	Type WLM	
5.1	High-pressure seal	2
5.2	Screwed plug	2
5.3	Retaining ring	2
5.5	O-ring	2
6	LABYRINTH RING	
6.1	Purge gas seal ring / labyrinth ring	2
7	BEARING SET	
7.1	Angular contact ball bearings	2
7.2	Bearing ring	1
7.4	Cover ring (with bore for rotational speed	1
7.5	Spacer ring	1
7.6	Cylinder head bolt	Depending on the type and size
7.7	Locking plate	1
7.8	Cylinder head bolt	Depending on the type and size
7.10	Slotted nut	1
7.11	Setting ring	1
7.12	Retaining ring	1
7.14	Cylindrical roller bearing	1

Item	Name	Pieces/device
7.15	Lubricating nipple	2
7.16	Shaft seal	2
7.17	Shaft seal	1
7.18	Retaining ring	Depending on the type and size
7.21	Lubrication ring	1
7.30	Shaft seal	1, only with rotational speed sensor
8	ROTOR	
8.1	Rotor	1
8.2	Feather key	1
8.3	Shaft protection sleeve	2

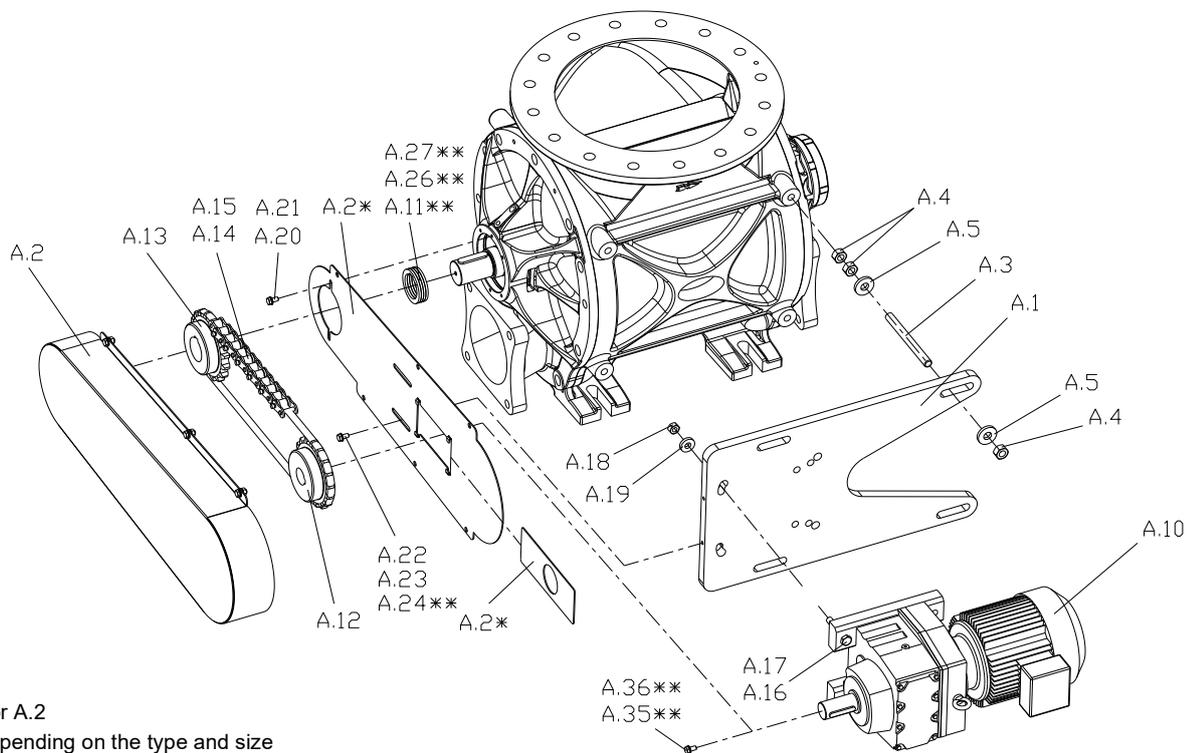
2 Accessories

2.1 Purge gas piping, standard



Item	Name	Pieces/device
E	PIPING	
	Labyrinth ring purging	
E.01	Solenoid valve	1
E.1	Reducer	1
E.2	Threaded pipe joint TE	1
E.3	Pipe	1
E.4	Retaining bracket	1
E.5	Seal ring	1
E.6	Hexagon bolt	1
E.7	Threaded pipe joint GE	2
E.8	Angle bracket, 90°	1
E.9	Double nipple	1
E.10	Filter regulator	1
E.11	Pressure gauge	1

2.2 Motor attachment, chain drive

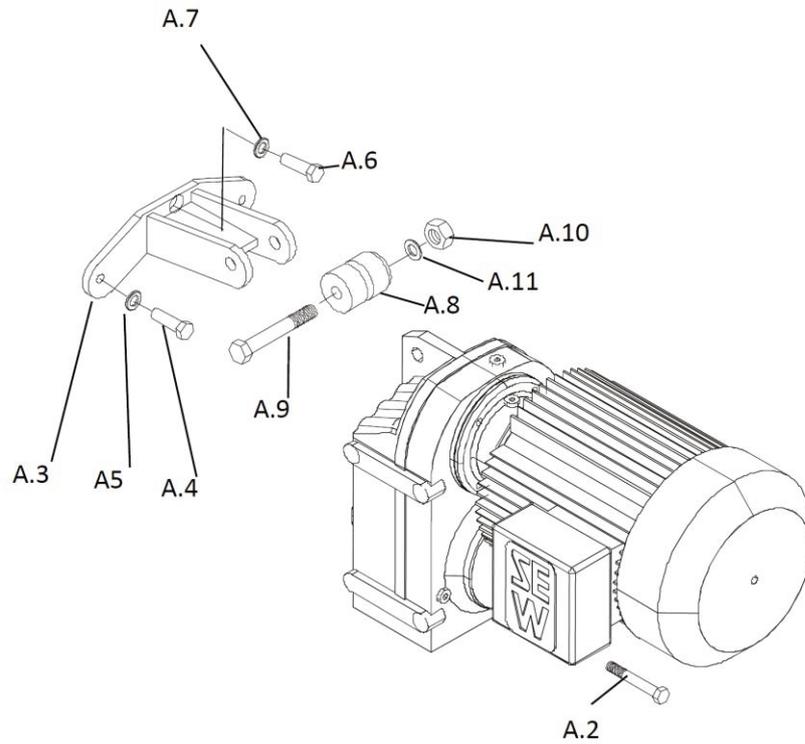


* For A.2

** Depending on the type and size

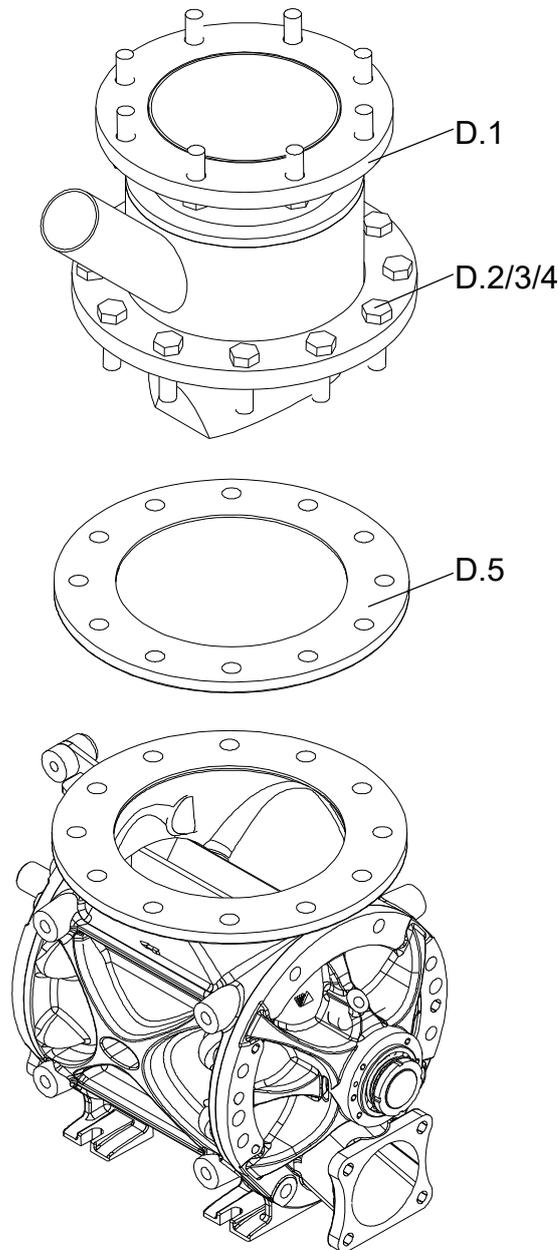
Item	Name	Pieces/device
A	DRIVE	
	Gear motor with chain drive	
A.1	Motor plate	1
A.2	Chain box, complete	1
A.3	Threaded rod	4
A.4	Hexagon nut	12
A.5	Washer	8
A.10	Gear motor	1
A.11	Spacer	Depending on the type and size
A.12	Chain sprocket, motor	1
A.13	Chain sprocket, valve	1
A.14	Roller chain	1
A.15	Chain connecting link	1
A.16	Hexagon bolt	4
A.17	Washer	4
A.18	Hexagon nut	4
A.19	Washer	4
A.20	Hexagon bolt	2
A.21	Washer	2
A.22	Hexagon bolt	2
A.23	Washer	2 (4)
A.24	Hexagon nut	2
A.26	Spacer	Depending on the type and size
A.27	Spacer	Depending on the type and size

2.3 Motor attachment, direct drive



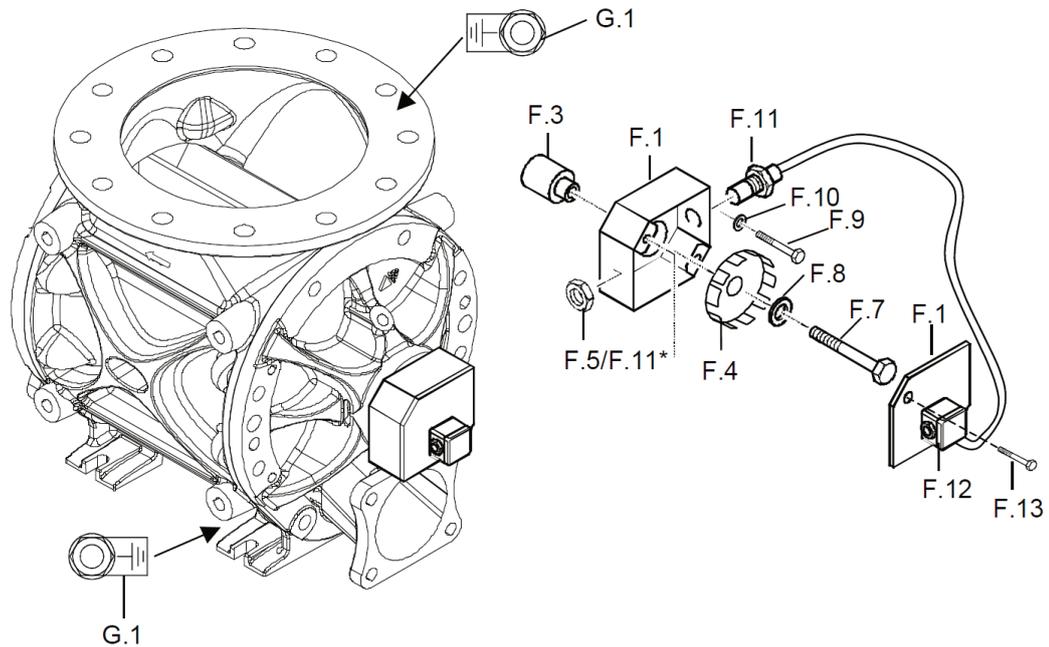
Item	Name	Pieces/device
A	DRIVE	
	Gear motor with direct drive	
A.2	Hexagon bolt	1
A.3	Torque support	1
A.4	Hexagon bolt	2
A.5	Washer	2
A.6	Hexagon bolt	1
A.7	Washer	1
A.8	Rubber block support	1
A.9	Hexagon bolt	2
A.10	Hexagon nut	1
A.11	Washer	2

2.4 Leakage gas removal and/or pick-up tee



Item	Name	Pieces/device
D	LEAKAGE GAS COLLECTOR/ HOUSING VENT	
D.1	Leakage gas collector	1
D.2	Hexagon bolt	Depending on the type and size
D.3	Hexagon nut	Depending on the type and size
D.4	Washer	Depending on the type and size
D.5	Seal	1

2.5 Rotational speed sensor on the non-driven end



Item	Name	Pieces/device
F	ROTATIONAL SPEED SENSOR	
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
G	GROUND	
G.1	Grounding bolt, complete	2

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 table above must not be exceeded.