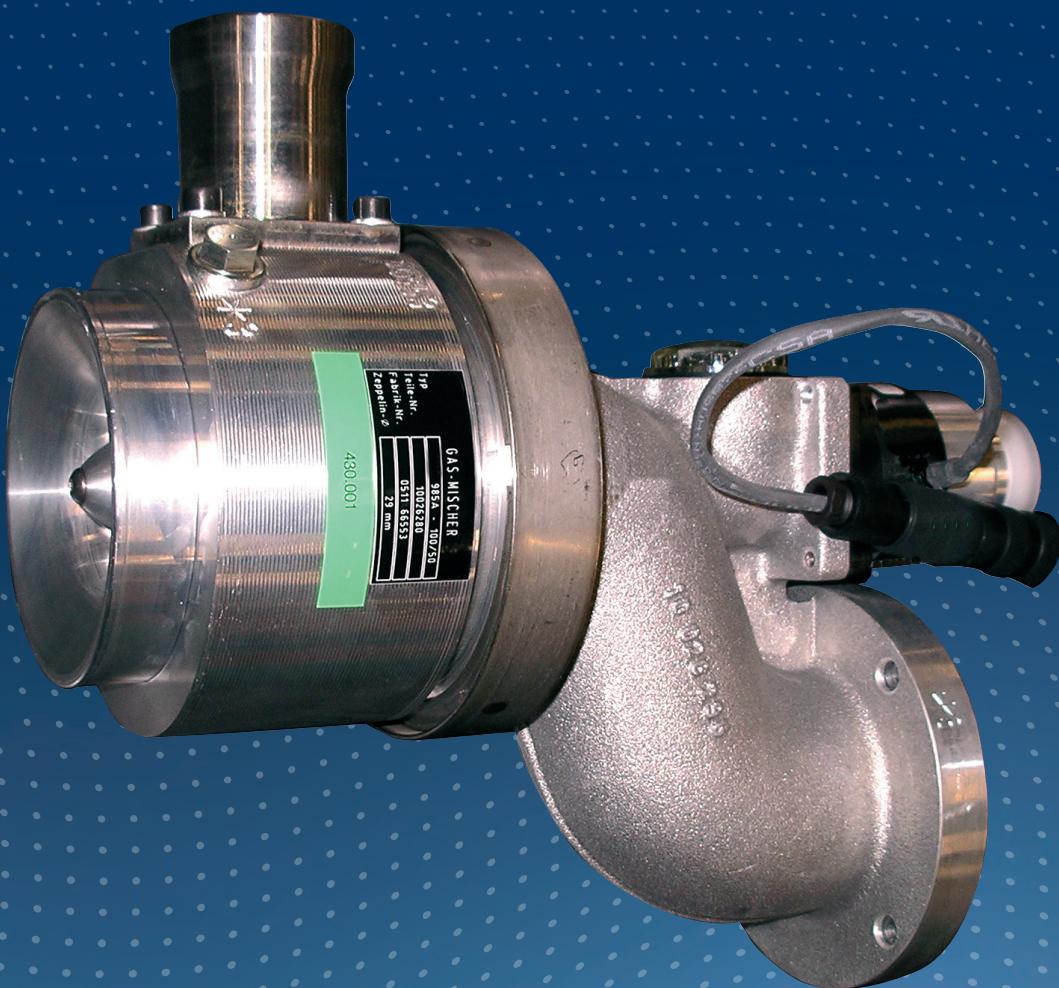


GAS MIXER HON 985

985.20



**OPERATING AND MAINTENANCE INSTRUCTIONS/
SPARE PARTS**

EDITION 01/2017

**Serving the Gas Industry
Worldwide**

Honeywell

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1. General information

All persons involved with the assembly, operation and/or maintenance of gas mixer HON 985 must read and understand all of the following documents:

- Technical product information 985.00 — this Honeywell document contains the technical data and dimensions of the equipment as well as instructions concerning construction and mode of operation.
- Operating and maintenance instructions, spare parts 985.20 — this Honeywell document contains more detailed information on assembly and operation of the gas mixer HON 985.

Inspection and maintenance intervals depend mostly on the operating conditions at the respective system. Amongst other factors, the device used and the corresponding gas composition, and the existing gas contamination must be taken into account. There are no general rules or recommendations for intervals. It is advisable to include the devices in the gas engine maintenance intervals.

During maintenance, components must be cleaned and then checked thoroughly. This is necessary even if there have not been any unusual observations during operation and/or functional testing. The check must include in particular seals, all moving parts such as angular gear and the transmission thread on the venturi insert. Any and all defective parts must be replaced with new ones. The same applies to O rings removed during disassembly.

Some parts in the lists and drawings are marked with a letter "W". We recommend to always have a reserve of those parts in stock for maintenance purposes.

2. Specific operating instructions

2.1 High frequency radiation exposure (comment on application at gas engine)

Possible high frequency radiation exposure (e.g. from the ignition coil and its cable) must be observed with regard to the proper response from the proximity switch and the stepper motor. Cables must be laid separately.

2.2 Stepper motor and proximity switch technical data

A stepper motor controller card is not included in the scope of delivery. When choosing a stepper motor control card, the following data on the stepper motors and the proximity switches should be taken into account.

Table 1: Stepper motors technical data

	HON 985-140/65-WG-N-2NÄ	HON 985-140/65-WG-P-2NÄ	HON 985-200/100-WG-N-2NÄ	HON 985-200/100-WG-P-2NÄ	HON 985-300/150-WG-P-2NÄ	HON 985-400/200-WG-P-2NÄ
Number of steps per revolution	200	200	200	200	200	200
Current per phase [A]	1,4	1,2	1,4	1,2	1,2	1,2
Resistance per phase [Ω]	4,4	5,8	4,4	5,8	10,5	10,5

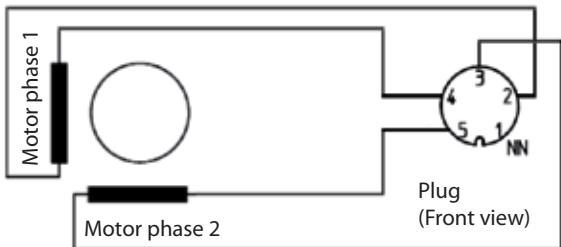


Figure 1: Stepper motor connection diagram

The electrical connector is a 5-pole series 723 plug made by the company Binder.

Note

A socket compatible with the stepper motor is included in the delivery.

Table 2: Proximity switch technical data:

connection	V1 device connector
operating voltage	10 – 60 VDC
ripple quality	≤ 10 %
switching frequency	500 Hz
operating current	100 mA
idling power consumption	15 mA
output marking	ppn opener (positive switching)
active surface free	operating voltage – (max. 3 V at 100 mA)
active surface covered	≤ 0,3 V
interference voltage (permissible voltage peaks)	max. 1000 V / 10 ms
internal resistance	10 kOhm
LED switch status display	yellow light when active surface is free

Note

A socket compatible with the proximity switch is included in the delivery.

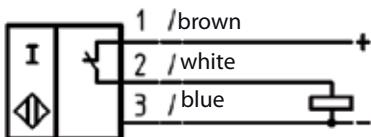


Figure 2: Proximity switch connection diagram

3. Specific maintenance instructions

Caution

Maintenance may only be carried out when the power is off.

3.1 Screw tightening torques M_A

The parts marked with $M_A = \dots \text{Nm}$ must be tightened to the prescribed value with a torque wrench. Screw tightening torques are given in the spare parts drawings.

3.2 Lubricants

Grease all O-rings with silicon grease (part number 27081).

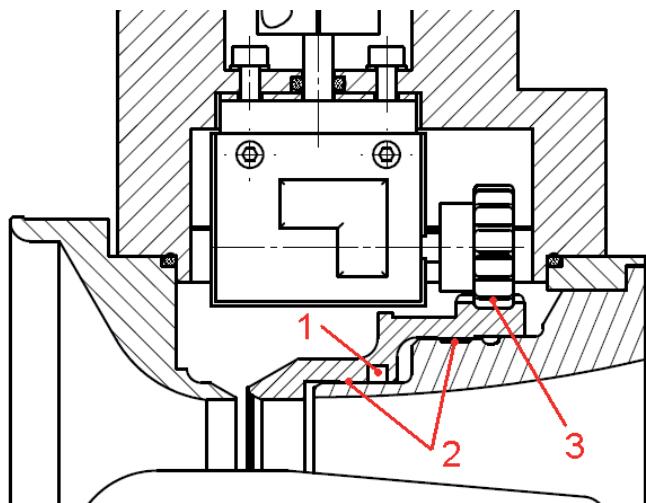


Figure 3: Gas mixer lubrication

Groove (parts number 27052) must be filled with grease flush to the guide diameter (note 1, fig. 3). Grease sliding surfaces, transmission thread (note 2, fig. 3), Venturi toothing and pinion (note 3, fig. 3) with a small amount of grease (part number 27052).

3.3 Adhesives

The parts to be glued must be completely clean, dry and free of grease. Information on gluing connections is in the spare parts drawings.

3.4 Transmission and coupling

To check the drive gear wheel of the angular gear and the venturi toothed insert, remove gearbox lid (see fig. 4).

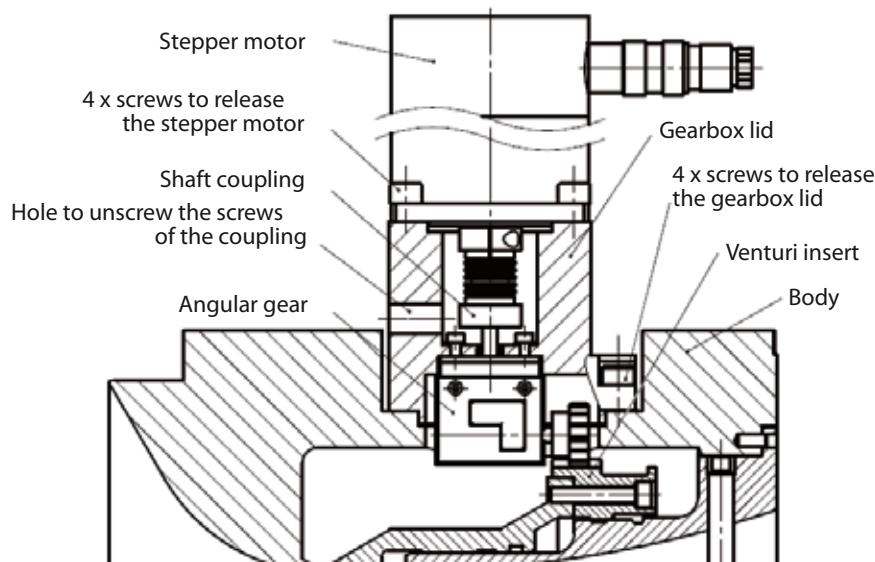


Figure 4: Dismantling gearbox lid and shaft coupling

Remove Venturi insert and Venturi carrier for inspection as regards the following points (also see corresponding spare part drawing):

- Remove the proximity sensors locking nuts. Screw out the proximity sensors from the housing.
- Screw the safety threaded pin out from the zeppelin.
- Screw out centring bar from the zeppelin and the body.
- Pull out from the housing the Venturi insert using the squeeze threading in the venturi carrier.

Check Venturi insert for damages and lightness of movement of the transmission thread.

To check the shaft coupling, release the locking screw of the shaft coupling (hexagon spanner, clamping capacity 2.5) through the hole in the direction of flow. Then detach the stepper motor.

Caution

The shaft coupling must rotate freely. Observe dimensions (Fig. 5) for assembly.

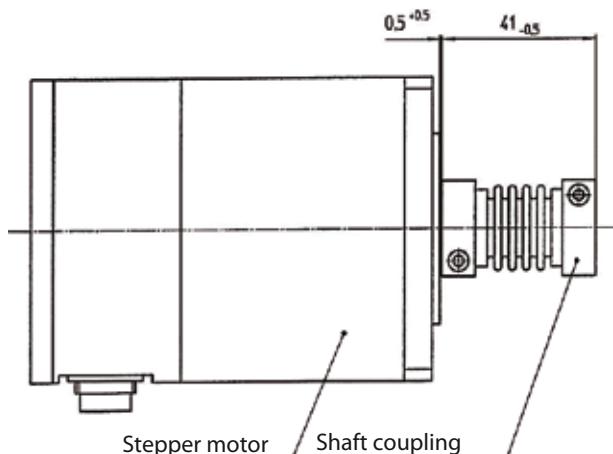


Figure 5: Distance of the coupling from the stepper motor

Caution

After assembly, the proximity switches have to be reset in accordance with the setting instructions in section 3.7.

3.5 Adaptor plate

If drive components (e.g. Venturi insert, angular gear, pinion) are replaced, the axle distance must be set using an adaptor plate as follows. The adaptor plate is a laminated shim material.

The size of the adaptor plate must be adjusted so that when mounting the gearbox lid with the gas mixer, the rotary drive is not under tension (see Fig. 6).

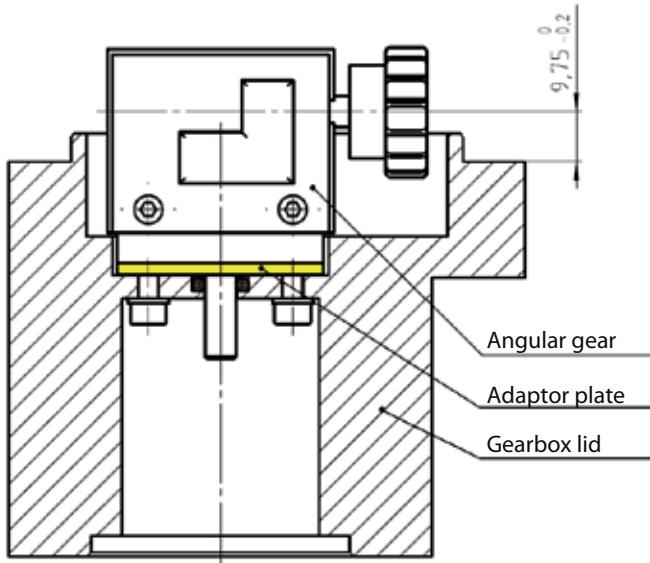


Figure 6: Setting using the adaptor plate

The measurement 9.75-0.2 mm (Fig. 6) is theoretical. It is adjusted during installation of the gearbox lid at the gas mixer by taking off layer of the laminated shim.

Note One layer of the adaptor plate is 0.05 mm thick.

A new adaptor plate is 3 mm thick. To ensure it runs smoothly, make the adaptor plate 1.7 mm thick. If the tooth gap is too small (heavy operation), the thickness of the adaptor plate can be reduced by up to another 0.2 mm.

The cylinder screw must be secured with Loctite glue (part number 26688).

3.6 Centring bar

Tenons of the centring bars must finish flush to the grooves at the body or Venturi carrier (see Fig. 7).

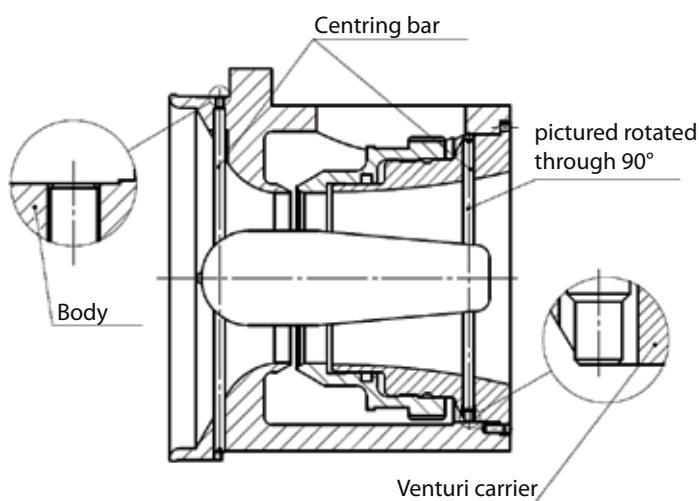


Figure 7: Mounting centring bars

3.7 Proximity switch setting instructions

So that the proximity switches will be triggered safely and precisely, they should be replaced according to the following setting instructions.

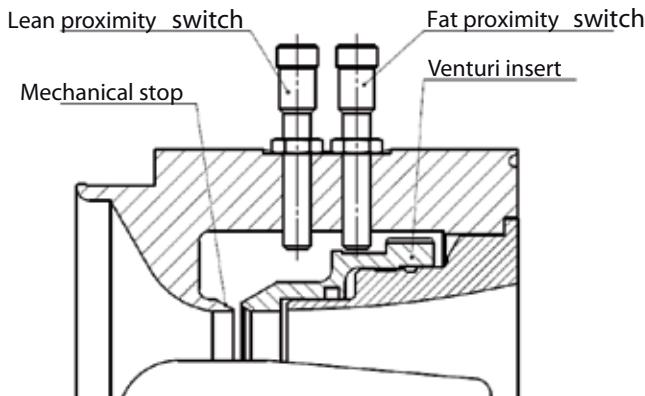


Figure 8: Placement of proximity switch

Lean proximity switch setting:

- Screw the Venturi insert against the mechanical lean stop (mixing gap closed) of the body (see Fig. 8).
- Via the toothing at the Venturi insert, re-open the Venturi insert in accordance with the information in table 3.
- Turn proximity switch into the receptacle until the signal. In the process the LED on the proximity switch goes out.
- Tighten the locking nut of the proximity sensor (M_A max. 10 Nm).
- To check the lean switch setting, turn Venturi insert from the switching point in the fat direction (mixing gap open) and check its turning again into the switching point.
- The triggering must occur at the tooth numbers given in table 3 plus a tolerance of 8 teeth.

Table 3: Lean switching point

Gas mixer	Lean switching point
HON 985-140/65	21 teeth -> corresponds to a 1/3 rotation
HON 985-200/100	30 teeth -> corresponds to a 1/3 rotation
HON 985-300/150	29 teeth -> corresponds to a 1/5 rotation
HON 985-400/200	48 teeth -> corresponds to a 1/4 rotation

Fat proximity switch setting:

- Screw the Venturi insert from the lean switching point in the fat direction in accordance with the information in table 4.
- Turn proximity switch into the receptacle until the signal. In the process the LED on the proximity switch goes out.
- Tighten the locking nut of the proximity sensor (M_A max. 10 Nm).
- Check the function of the proximity switch. The exact switching point is irrelevant.

Table 4: Fat switching point

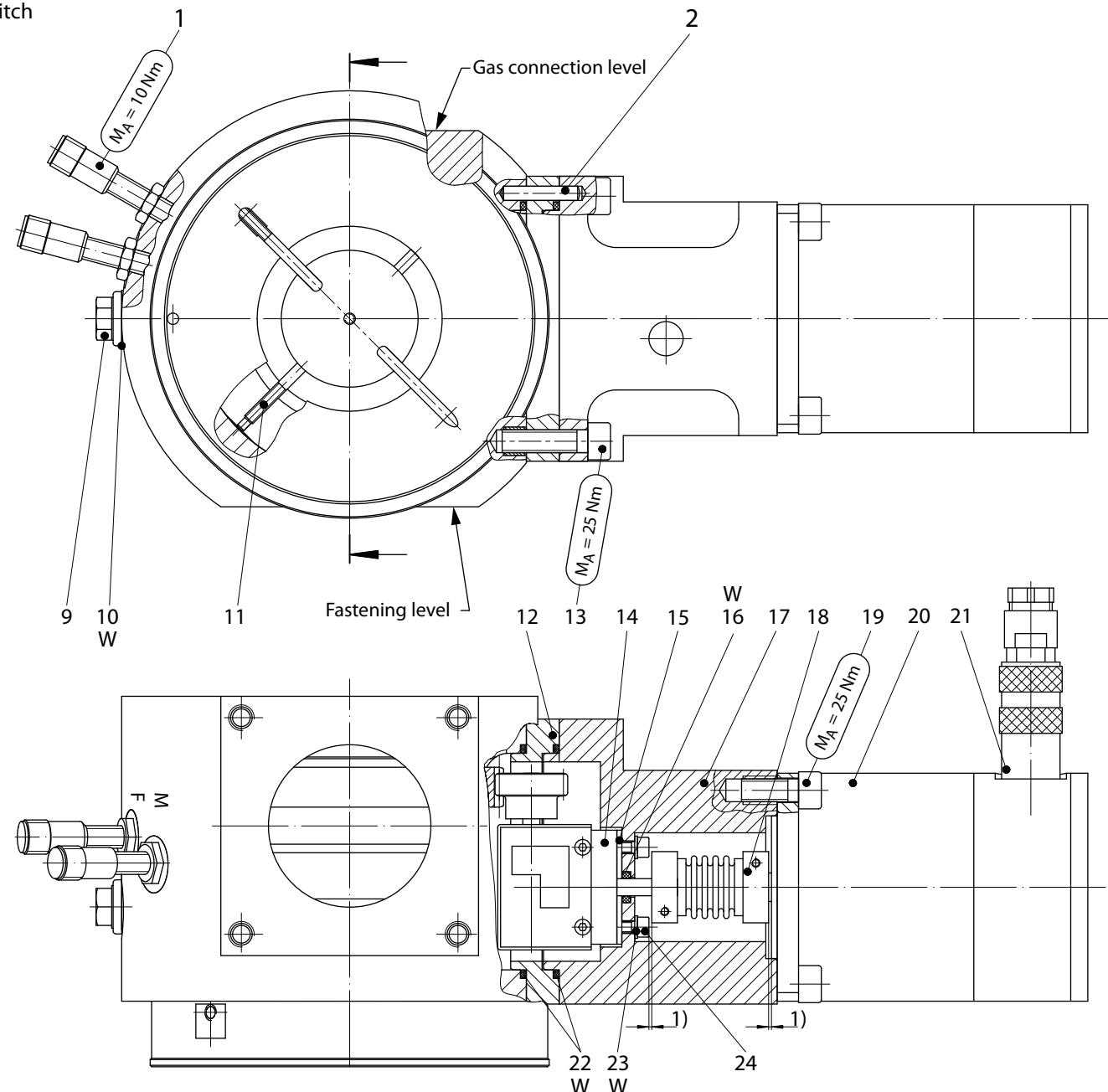
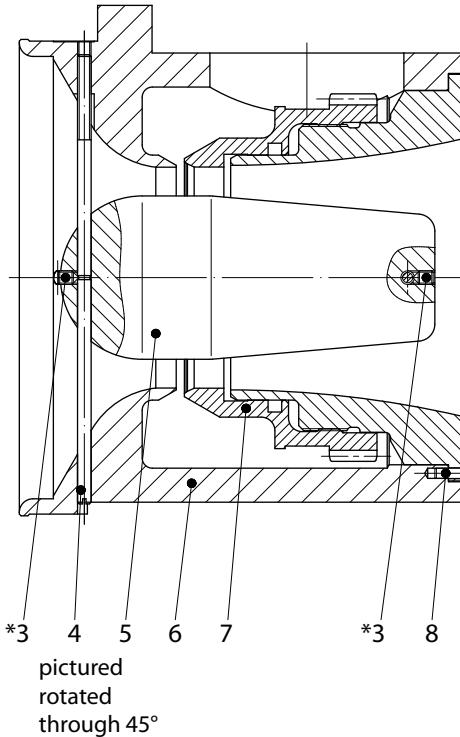
Gas mixer	Fat switching point
HON 985-140/65	4 rotation
HON 985-200/100	6 rotation
HON 985-300/150	6.5 rotation
HON 985-400/200	6 rotation

Carry out function check of the mixing gap adjustment with mounted stepping motor. To do so, approach fat and lean position three times.

4. Spare part drawings and spare part lists

4.1.1 SPARE PART DRAWING HON 985-140/65

with Phytron stepper motor and proximity switch



* Secured with Loctite PART NO. 26 688

1) Coupling must run freely

W Parts should be held in stock for maintenance purposes.

4.1.2 Spare part list HON 985-140/65
with Phytron stepper motor and proximity switch

Item no.	Denomination	Num.	W	Material	Part no.
1	Proximity switch	2		NSt	24122
2	Straight pin	1		St	17277
3	Setscrew	2		St	12438
4	Centring bar	1		St	19082206
5	Zeppelin, optional:				
5	Zeppelin, Ø 11	1		LM	19084888
5	Zeppelin, Ø 22	1		LM	19082297
5	Zeppelin, Ø 27	1		LM	19082298
5	Zeppelin, Ø 30	1		LM	19082296
5	Zeppelin, Ø 31	1		LM	19082379
5	Zeppelin, Ø 32	1		LM	19082378
5	Zeppelin, Ø 34	1		LM	10030435
5	Zeppelin, Ø 36	1		LM	19082291
5	Zeppelin, Ø 38	1		LM	19082376
5	Zeppelin, Ø 41	1		LM	19082292
5	Zeppelin, Ø 42	1		LM	19082373
5	Zeppelin, Ø 44	1		LM	19082295
5	Zeppelin, Ø 47	1		LM	19082299
5	Zeppelin, Ø 48	1		LM	19082374
5	Zeppelin, Ø 52	1		LM	19082377
5	Zeppelin, Ø 54	1		LM	19082375
5	Zeppelin, Ø 61	1		K	19082426
6	Body	1		LM	10022955
7	Venturi insert, pre-assembled	1		AIBz/St	10022951
8	Straight pin	1		St	17086
9	Locking screw	1		St	26175
10	Sealing ring	1	W	LM	18842
11	Centring bar	1		St	19082207
12	Spacer plate	1		LM	10022959
13	Cylinder head screw	4		St	10098
14	Angular gear, complete	1		NSt/LM/K	100383
15	Adaptor plate	1		LM	10022070
16	O-ring	1	W	K	21117
17	Gearbox lid	1		NSt/LM	19083034
18	Metal bellow coupling	1		LM/NSt	27422
19	Cylinder head screw	4		St	10067
20	Phytron stepping motor	1			24339
21	Socket	1		LM	24107
22	O-ring	2	W	K	20246
23	Sealing ring	2		LM	18701
24	Cylinder head screw	2		St	10382

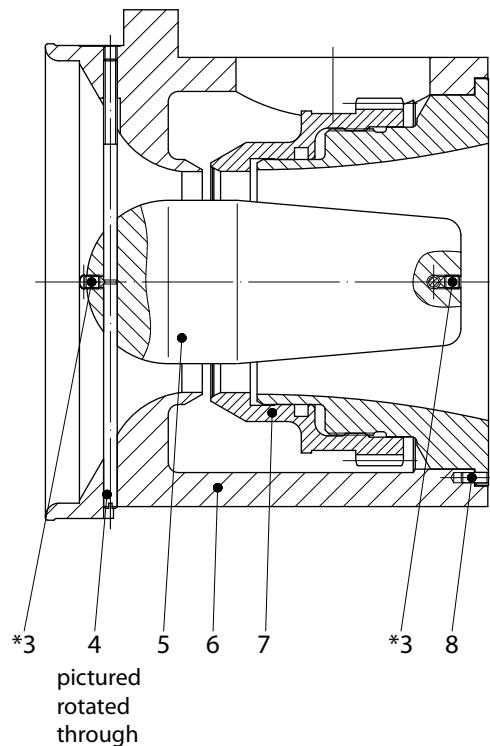
W Parts should be held in stock for maintenance purposes.

German abbreviations stand for the following materials:

St	... steel	LM	... light metal / alloy	GMs	... cast brass
NSt	... stainless steel	Ms	... brass	GZn	... cast zinc
FSt	... spring steel	GS	... cast steel	AIBz	... aluminium bronze
NFSt	... stainless spring steel	GGG	... spheroidal graphite cast iron	K	... synthetic materials
Bz	... bronze	GBz	... cast bronze	KG	... gummos synthetic materials
Cu	... copper	GLM	... cast light metal	SSt	... foamed materials

4.2.1 SPARE PART DRAWING HON 985-140/65

with Nanotec stepper motor and proximity switch

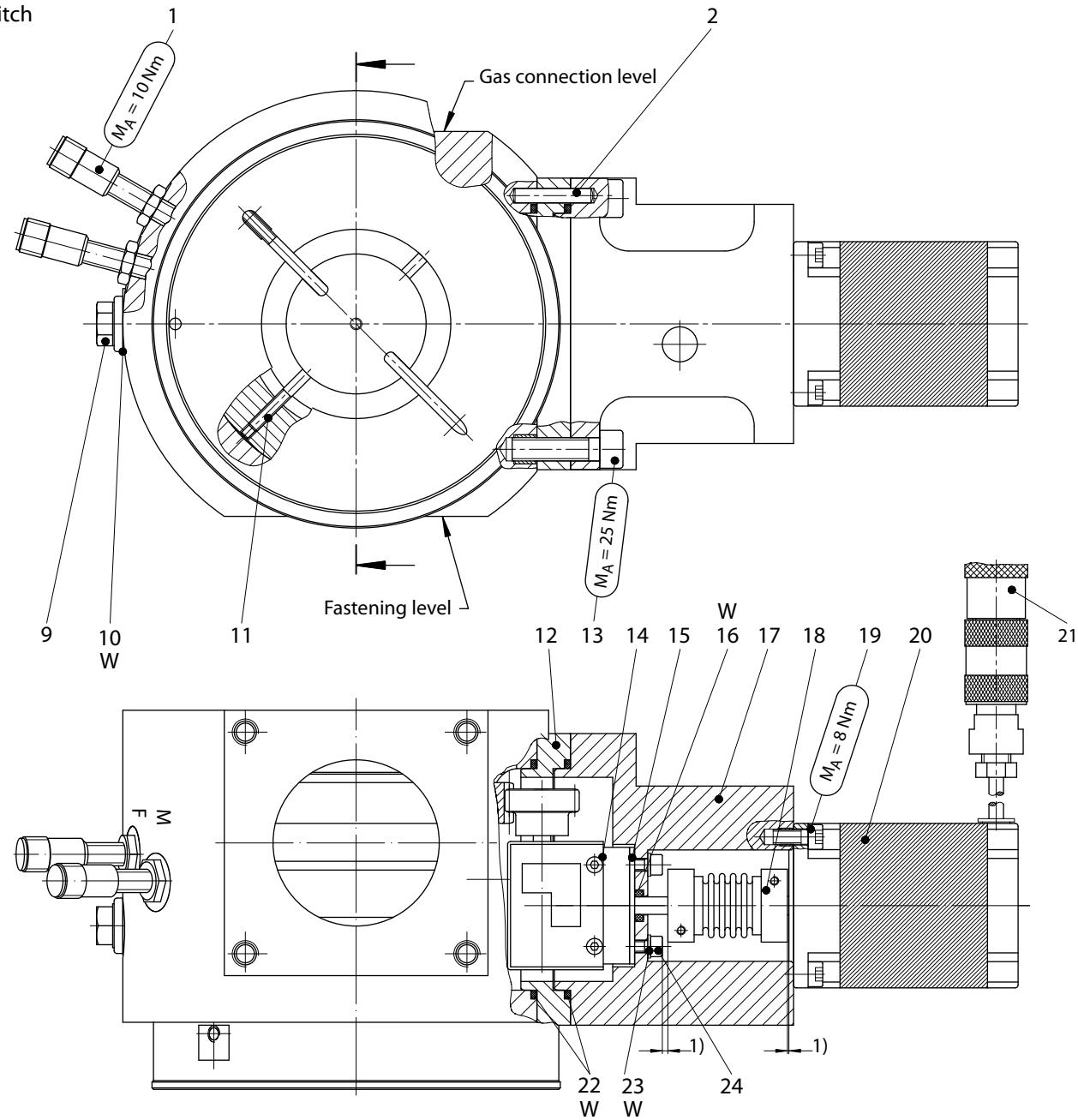


pictured
rotated
through

* Secured with Loctite PART NO. 26 688

1) Coupling must run freely

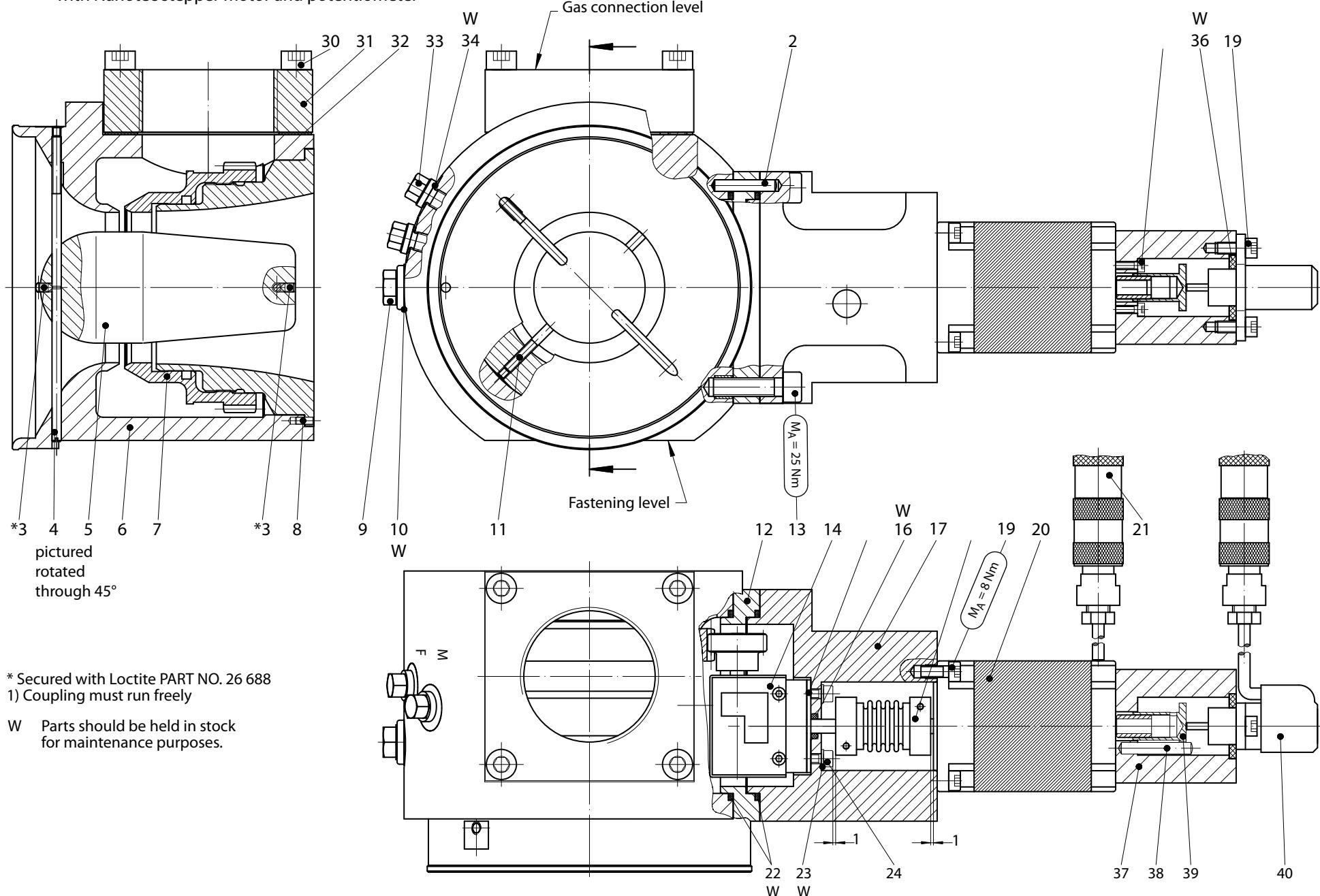
W Parts should be held in stock for maintenance purposes.



4.2.2 Spare part list HON 985-140/65
with Nanotec stepper motor and proximity switch

Item no.	Denomination	Num.	W	Material	Part no.
1	Proximity switch	2		NSt	24122
2	Straight pin	1		St	17277
3	setscrew	2		St	12438
4	Centring bar	1		St	19082206
5	Zeppelin, optional:				
5	Zeppelin, Ø 11	1		LM	19084888
5	Zeppelin, Ø 22	1		LM	19082297
5	Zeppelin, Ø 27	1		LM	19082298
5	Zeppelin, Ø 30	1		LM	19082296
5	Zeppelin, Ø 31	1		LM	19082379
5	Zeppelin, Ø 32	1		LM	19082378
5	Zeppelin, Ø 34	1		LM	10030435
5	Zeppelin, Ø 36	1		LM	19082291
5	Zeppelin, Ø 38	1		LM	19082376
5	Zeppelin, Ø 41	1		LM	19082292
5	Zeppelin, Ø 42	1		LM	19082373
5	Zeppelin, Ø 44	1		LM	19082295
5	Zeppelin, Ø 47	1		LM	19082299
5	Zeppelin, Ø 48	1		LM	19082374
5	Zeppelin, Ø 52	1		LM	19082377
5	Zeppelin, Ø 54	1		LM	19082375
5	Zeppelin, Ø 61	1		K	19082426
6	Body	1		LM	10022955
7	Venturi insert, pre-assembled	1		AIBz/St	10022951
8	Straight pin	1		St	17086
9	Locking screw	1		St	26175
10	Sealing ring	1	W	LM	18842
11	Centring bar	1		St	19082207
12	Spacer plate	1		LM	10022959
13	Cylinder head screw	4		St	10098
14	Angular gear, complete	1		NSt/LM/K	100383
15	Adaptor plate	1		LM	10022070
16	O-ring	1	W	K	21117
17	Gearbox lid	1		NSt/LM	10022069
18	Metal bellow coupling	1		LM/NSt	28348
19	Cylinder head screw	4		St	10318
20	Nanotec-stepping motor	1			24601
21	Socket	1		LM	24107
22	O-ring	2	W	K	20246
23	Sealing ring	2		LM	18701
24	Cylinder head screw	2		St	10382

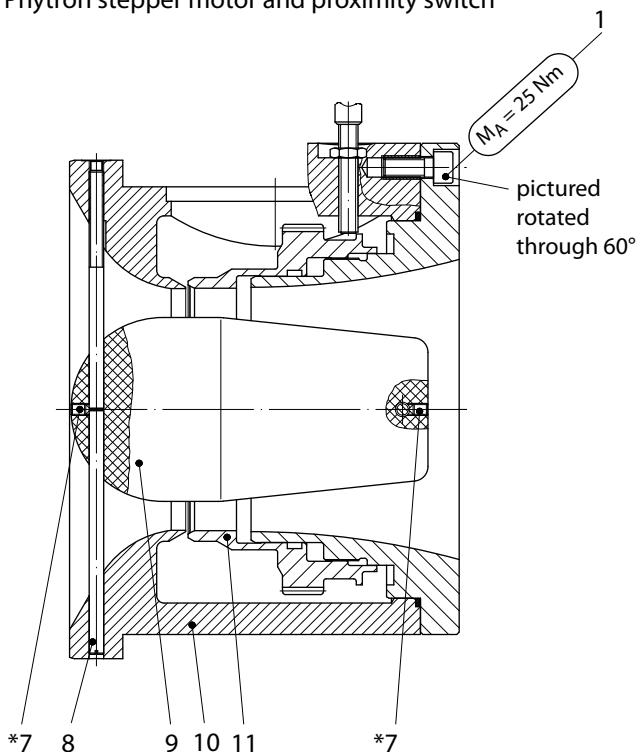
4.3.1 SPARE PART DRAWING HON 985-140/65
with Nanotec stepper motor and potentiometer



4.3.2 Spare part list HON 985-140/65
with Nanotec stepper motor and potentiometer

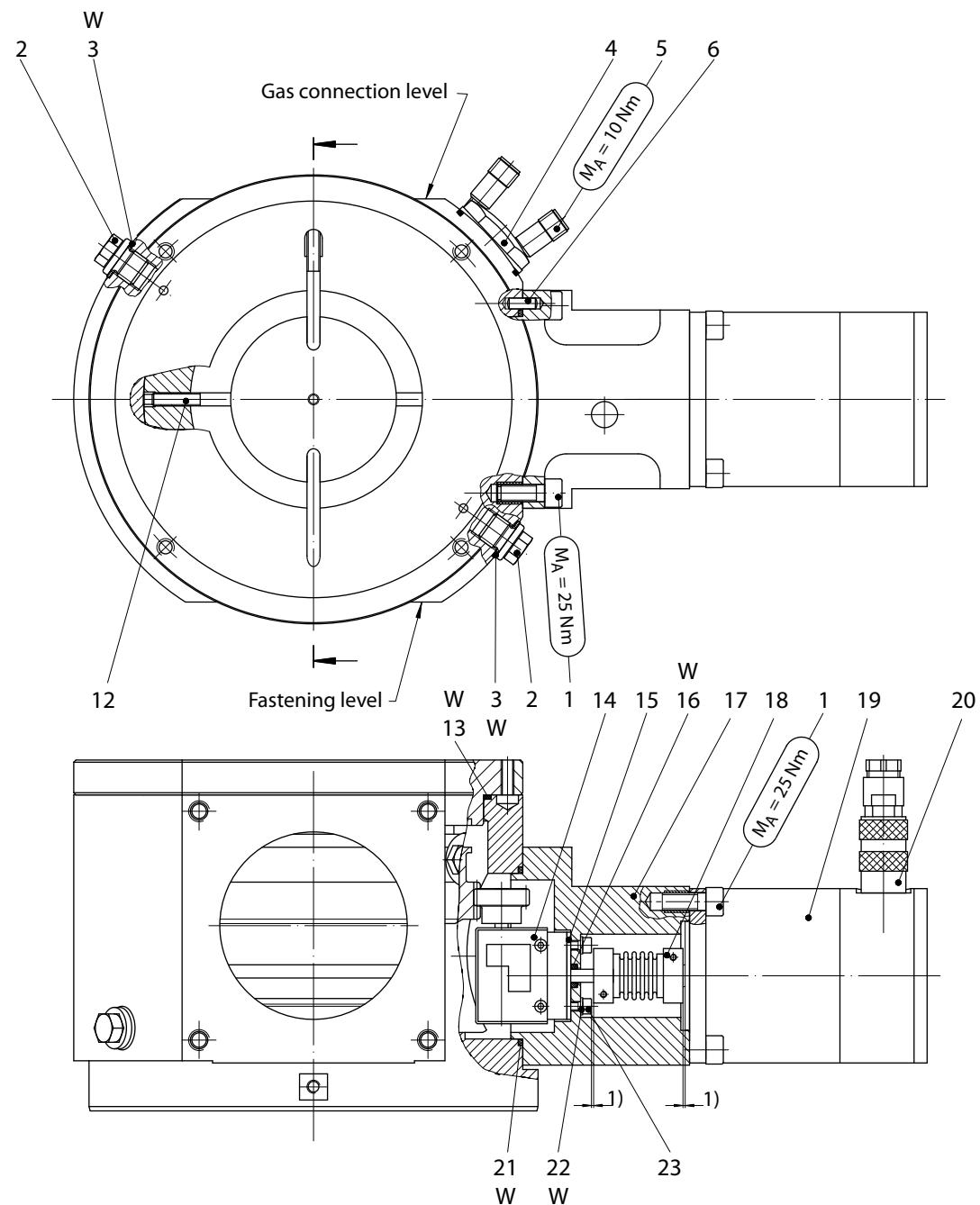
Item no.	Denomination	Num.	W	Material	Part no.
2	Straight pin	1		St	17277
3	Setscrew	2		St	12438
4	Centring bar	1		St	19082206
5	Zeppelin, optional:				
5	Zeppelin, Ø 11	1		LM	19084888
5	Zeppelin, Ø 22	1		LM	19082297
5	Zeppelin, Ø 27	1		LM	19082298
5	Zeppelin, Ø 30	1		LM	19082296
5	Zeppelin, Ø 31	1		LM	19082379
5	Zeppelin, Ø 32	1		LM	19082378
5	Zeppelin, Ø 34	1		LM	10030435
5	Zeppelin, Ø 36	1		LM	19082291
5	Zeppelin, Ø 38	1		LM	19082376
5	Zeppelin, Ø 41	1		LM	19082292
5	Zeppelin, Ø 42	1		LM	19082373
5	Zeppelin, Ø 44	1		LM	19082295
5	Zeppelin, Ø 47	1		LM	19082299
5	Zeppelin, Ø 48	1		LM	19082374
5	Zeppelin, Ø 52	1		LM	19082377
5	Zeppelin, Ø 54	1		LM	19082375
5	Zeppelin, Ø 61	1		K	19082426
6	Body	1		LM	10022955
7	Venturi insert, pre-assembled	1		AIBz/St	10022951
8	Straight pin	1		St	17086
9	Locking screw	1		St	26175
10	Sealing ring	1	W	LM	18842
11	Centring bar	1		St	19082207
12	Spacer plate	1		LM	10022959
13	Cylinder head screw	4		St	10098
14	Angular gear, complete	1		NSt/LM/K	100383
15	Adaptor plate	1		LM	10022070
16	O-ring	1	W	K	21117
17	Gearbox lid	1		NSt/LM	10022069
18	Metal bellow coupling	1		LM/NSt	28348
19	Cylinder head screw	6		St	10318
20	Nanotec stepping motor	1			24627
21	Socket	1		LM	24107
22	O-ring	2	W	K	20246
23	Sealing ring	2		LM	18701
24	Cylinder head screw	2		St	10382
30	Cylinder head screw	4		St	10425
31	Plate, adaptor	1		LM	19082880
32	Gasket	1		K	19082262
33	Locking screw	2		St	27922
34	Sealing ring	2	W	LM	18710
35	Cylinder head screw	2		St	10658
36	Sealing ring	1	W	K	18209
37	Adaptor, fastening	1		LM	10027626
38	Straight pin	1		St	17132
39	Threaded sleeve,	1		St	10027625
40	Potentiometer, pre-assembled	1			10026269

4.4.1 SPARE PART DRAWING HON 985-200/100
with Phytron stepper motor and proximity switch



* Secured with Loctite PART NO. 26 688
1) Coupling must run freely

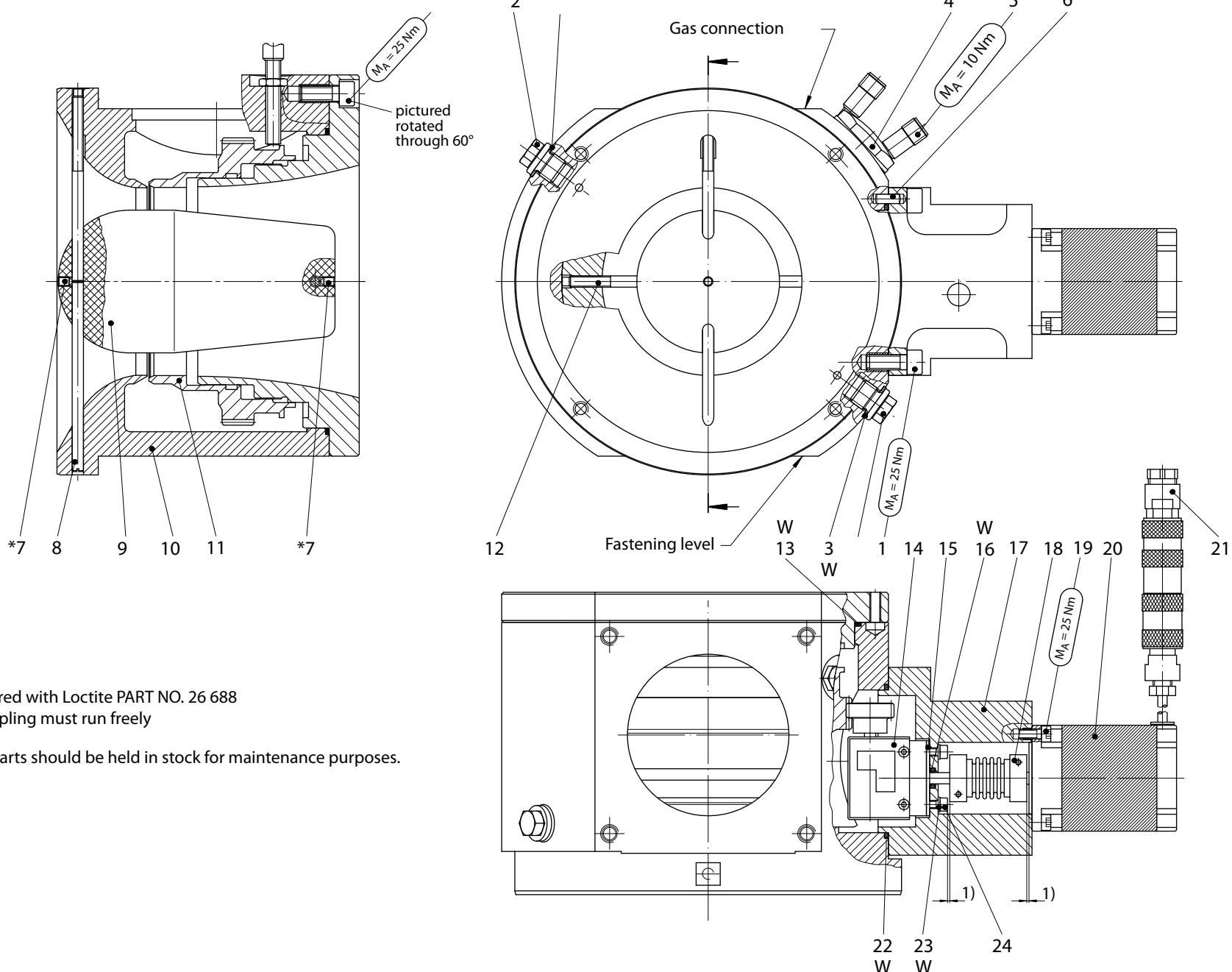
W Parts should be held in stock for maintenance purposes.



4.4.2 Spare part list HON 985-200/100
with Phytron stepper motor and proximity switch

Item no.	Denomination	Num.	W	Material	Part no.
1	Cylinder head screw	12		St	10067
2	Locking screw	2		St	26175
3	Sealing ring	2	W	LM	18842
4	Inspection glass	1		K	27280
5	Proximity switch	2		NSt	24122
6	Straight pin	1		St	17007
7	Setscrew	2		St	12441
8	Centring bar	1		St	10022002
9	Zeppelin, optional:				
9	Zeppelin, Ø 30	1		LM	10020982
9	Zeppelin, Ø 41	1		LM	10030478
9	Zeppelin, Ø 45	1		LM	10020845
9	Zeppelin, Ø 48	1		LM	10020981
9	Zeppelin, Ø 52	1		LM	10020983
9	Zeppelin, Ø 53	1		LM	10020846
9	Zeppelin, Ø 61	1		K	10020847
9	Zeppelin, Ø 66	1		K	10020874
9	Zeppelin, Ø 69	1		K	10020848
9	Zeppelin, Ø 73	1		K	10020849
9	Zeppelin, Ø 76	1		K	10020980
9	Zeppelin, Ø 78	1		K	10020979
9	Zeppelin, Ø 81	1		K	10020978
9	Zeppelin, Ø 85	1		K	10030200
10	Body	1		LM	10022065
11	Venturi insert, pre-assembled	1		AIBz/St	10022064
12	Centring bar	1		St	10020833
13	O-ring	1	W	K	20324
14	Angular gear, complete	1		NSt/LM/K	100383
15	Adaptor plate	1		LM	10022070
16	O-ring	1	W	K	21117
17	Gearbox lid	1		NSt/LM	19083034
18	Metal bellow coupling	1		LM/NSt	27422
19	Phytron stepping motor	1			24339
20	Socket	1		LM	24107
21	O-ring	1	W	K	20246
22	Sealing ring	2		LM	18701
23	Cylinder head screw	2		St	10382

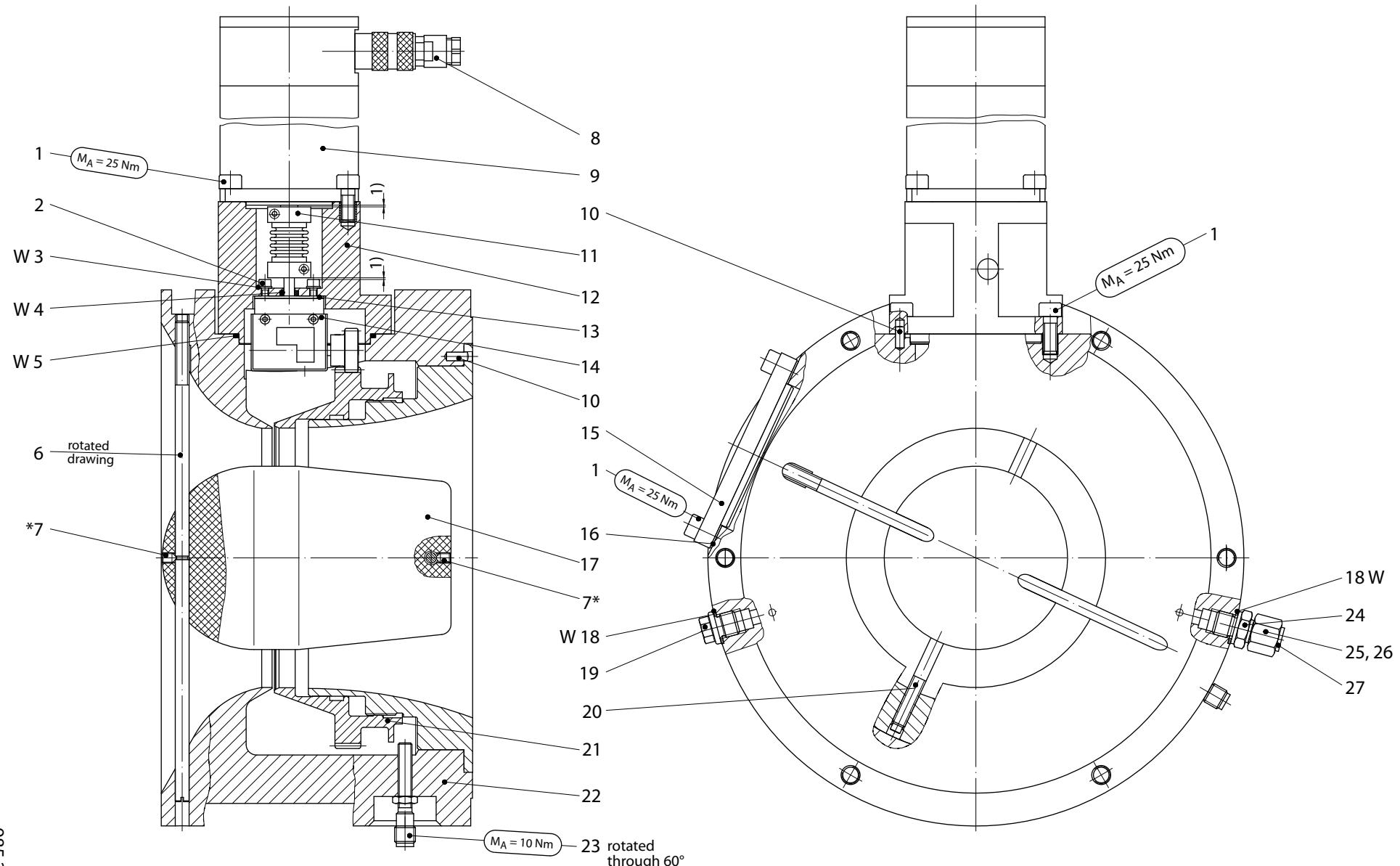
4.5.1 SPARE PART DRAWING HON 985-200/100
with Nanotec stepper motor and proximity switch



4.5.2 Spare part list HON 985-200/100
with Nanotec stepper motor and proximity switch

Item no.	Denomination	Num.	W	Material	Part no.
1	Cylinder head screw	8		St	10067
2	Locking screw	2		St	26175
3	Sealing ring	2	W	LM	18842
4	Inspection glass	1		K	27280
5	Proximity switch	2		NSt	24122
6	Straight pin	1		St	17007
7	Setscrew	2		St	12441
8	Centring bar	1		St	10022002
9	Zeppelin, optional:				
9	Zeppelin, Ø 30	1		LM	10020982
9	Zeppelin, Ø 41	1		LM	10030478
9	Zeppelin, Ø 45	1		LM	10020845
9	Zeppelin, Ø 48	1		LM	10020981
9	Zeppelin, Ø 52	1		LM	10020983
9	Zeppelin, Ø 53	1		LM	10020846
9	Zeppelin, Ø 61	1		K	10020847
9	Zeppelin, Ø 66	1		K	10020874
9	Zeppelin, Ø 69	1		K	10020848
9	Zeppelin, Ø 73	1		K	10020849
9	Zeppelin, Ø 76	1		K	10020980
9	Zeppelin, Ø 78	1		K	10020979
9	Zeppelin, Ø 81	1		K	10020978
9	Zeppelin, Ø 85	1		K	10030200
10	Body	1		LM	10022065
11	Venturi insert, pre-assembled	1		AIBz/St	10022064
12	Centring bar	1		St	10020833
13	O-ring	1	W	K	20324
14	Angular gear, complete	1		NSt/LM/K	100383
15	Adaptor plate	1		LM	10022070
16	O-ring	1	W	K	21117
17	Gearbox lid	1		NSt/LM	10022069
18	Metal bellow coupling	1		LM/NSt	28348
19	Cheese head screw	4		St	10318
20	Nanotec-stepping motor	1			24601
21	Socket	1		LM	24107
22	O-ring	1	W	K	20246
23	Sealing ring	2	W	LM	18701
24	Cylinder head screw	2		St	10 382

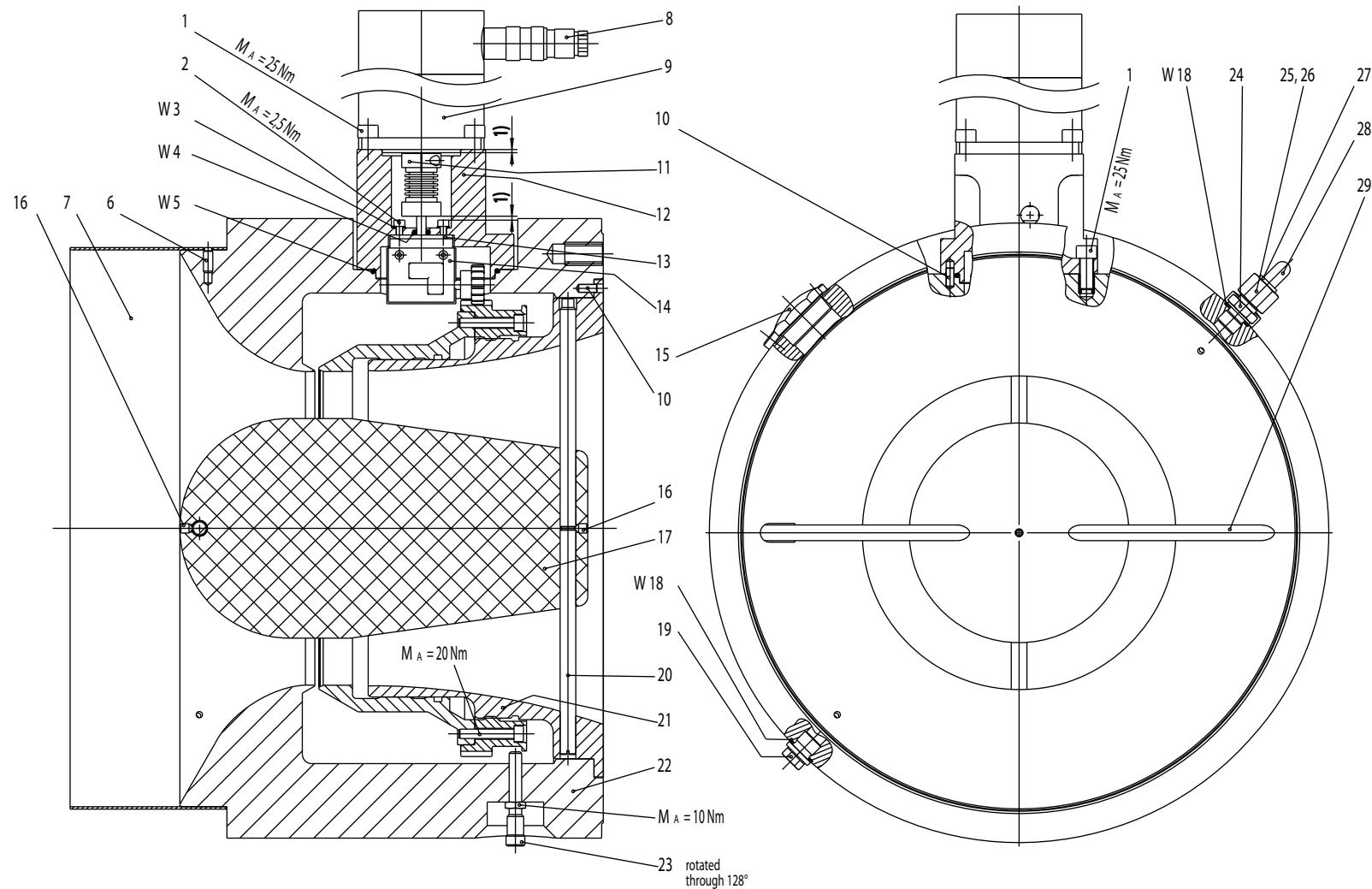
4.6.1 SPARE PART DRAWING HON 985-300/150
with Phytron stepper motor and proximity switch



4.6.2 Spare part list HON 985-300/150
with Phytron stepper motor and proximity switch

Item no.	Denomination	Num.	W	Material	Part no.
1	Cylinder head screw	12		St	10067
2	Cylinder head screw	2		St	10382
3	Sealing ring	2	W	LM	18701
4	O-ring	1	W	K	21117
5	O-ring	1	W	K	20246
6	Centring bar	1		St	10022004
7	Setscrew	2		St	12442
8	Socket	1		LM	24107
9	Phytron stepping motor	1			100206
10	Straight pin	2		St	17007
11	Metal bellow coupling	1		LM/NSt	27422
12	Gearbox lid	1		NSt/LM	19083034
13	Adaptor plate	1		LM	10022070
14	Angular gear, complete	1		NSt/LM/K	100383
15	Blind cover	1		LM	10022083
16	Gasket	1		K	10020792
17	Zeppelin, optional:				
17	Zeppelin, Ø 72	1		K	10021705
17	Zeppelin, Ø 85	1		K	10021708
17	Zeppelin, Ø 95	1		K	10021709
17	Zeppelin, Ø 98	1		K	10021706
17	Zeppelin, Ø 106	1		K	10021707
18	Sealing ring	2	W	LM	18842
19	Locking screw	1		St	26175
20	Centring bar	1		St	10021693
21	Venturi insert, pre-assembled	1		AIBz/St	10022077
22	Body	1		LM	10022080
23	Proximity switch	2		NSt	24122
24	Tube fitting	1		St	30111
25	Nut	1		St	30803
26	Cutting ring	1		St	30903
27	Plug	1		K	26162

4.7.1 SPARE PART DRAWING HON 985-400/200
with Phytron stepper motor and proximity switch



* Secured with Loctite PART NO. 26 688
1) Coupling must run freely

W Parts should be held in stock for maintenance purposes.

4.7.2 Spare part list HON 985-400/200
with Phytron stepper motor and proximity switch

Item no.	Denomination	Num.	W	Material	Part no.
1	Cylinder head screw	8		St	10067
2	Cylinder head screw	2		St	10382
3	Sealing ring	2	W	LM	18701
4	O-ring	1	W	K	21117
5	O-ring	1	W	K	20246
6	Safety setscrew	1		St	10022072
7	Connection ring	1		LM	10022073
8	Socket	1		LM	24107
9	Phytron stepping motor	1		LM/St	100206
10	Straight pin	2		St	17007
11	Metal bellow coupling	1		LM/NSt	27422
12	Gearbox lid	1		NSt/LM	19083034
13	Adaptor plate	1		LM	10022070
14	Angular gear, complete	1		LSt/LM/K	100383
15	Inspection glass	1		K	27280
16	Setscrew	2		St	12442
17	Zeppelin, optional:				
17	Zeppelin 128	1		K	10022096
17	Zeppelin 140	1		K	10022097
17	Zeppelin 117	1		K	10022099
17	Zeppelin 137	1		K	10030981
17	Zeppelin 86	1		K	10031433
17	Zeppelin 98	1		K	10031480
18	Sealing ring	2	W	LM	18842
19	Locking screw	1		St	26175
20	Centring bar	1		St	10022095
21	Venturi insert, pre-assembled	1		LM/AIBz/St	10022089
22	Body	1		LM	10022090
23	Proximity switch	2		NSt	24122
24	Tube fitting	1		St	30111
25	Nut	1		St	30803
26	Cutting ring	1		St	30903
27	Plug	1		K	26162
28	Eye bolt	1		St	10487
29	Centring bar	1		St	10022094

For More Information

To learn more about Honeywell's
Advanced Gas Solutions, visit
www.honeywellprocess.com or contact
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