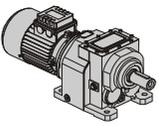




**MAINTENANCE AND USE
INSTRUCTIONS FOR GEAR AND
GEARMOTORS SERIES:**

CH - IH - H





Warehouse storage

When moving the unit, care should be taken to protect external parts from breakage or damage due to accidental knocks or falls.

If the unit is to be stored in a hostile atmosphere or for a long period of time (2/4 months), it is important to apply protective and waterproofing products to avoid deterioration of shafts and rubber parts.

Before starting up the unit, carry out the following checks:

Check the data shown on the name plate of the reduction unit and/or the electric motor;

Check for any leaks of lubricant

If possible, remove any traces of dirt from the shaft and from the areas around the oil seal.

If the oil seal is not immersed in the lubricant inside the assembly during particularly long storage periods (4/6 months) it is recommended that it should be replaced as the rubber might stick to the shaft or even have lost the elasticity it needs to work.

Installation

Particular care must be taken when installing drives, as this is often the source of damage and down time. Careful choice of the type of drive and mounting position can often avoid the need for protection of sensitive areas, particularly underneath the unit from oil leaks, however limited they may be.

- The machine must be firmly fastened in place in order to prevent any vibrations.
- Whenever possible, protect the reduction unit from direct sunlight and bad weather, especially when it is mounted on its vertical axis.
- Make sure the air intake on the fan side is unobstructed in order to ensure that the motor is correctly cooled.
- In the case of temperatures of $< -5\text{ }^{\circ}\text{C}$ or $> +40\text{ }^{\circ}\text{C}$, contact Technical Assistance.
- If the motor is to be started very often under load, the use of a heat probe inserted into the motor is recommended.
- The various machine members (pulleys, gear wheels, couplings, etc.) must be mounted on the shafts using special threaded holes or other systems that ensure correct operation without risk of causing damage to the bearings or the external parts of the assemblies (fig.1).
- Lubricate the surfaces that come into contact in order to prevent oxidation or seizure.

Installation

Example of a pulley mounted correctly on the slow shaft of a reduction unit

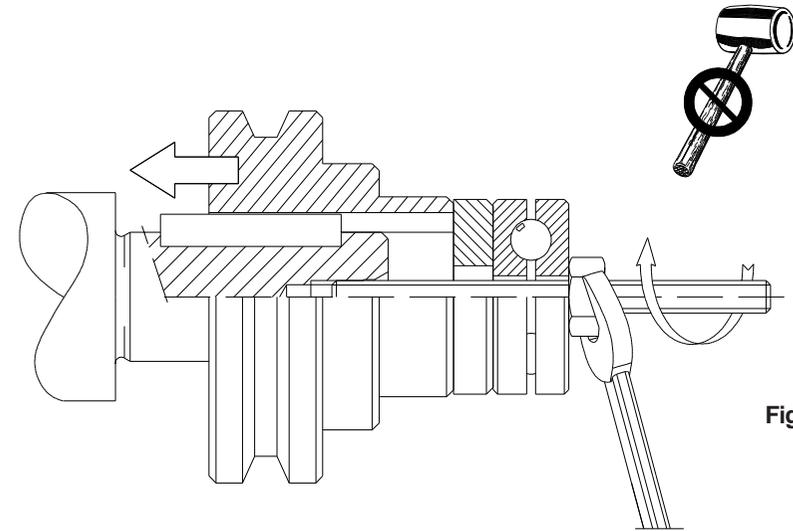


Fig. 1

Correct and incorrect examples of pulleys mounted on the main shaft of a reduction unit.

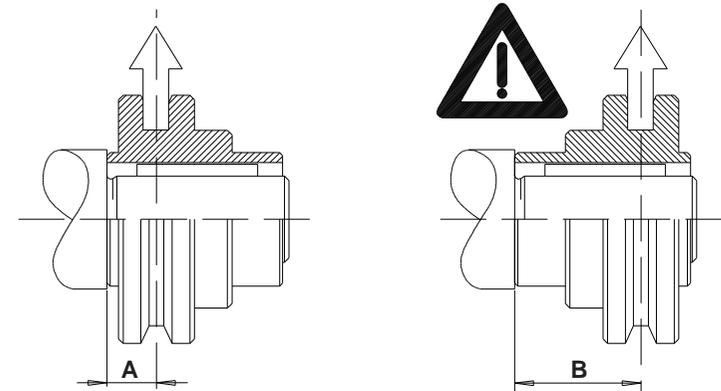
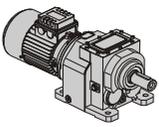


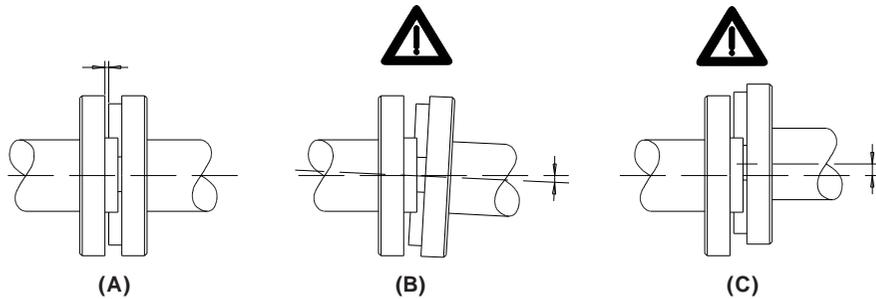
Fig. 2



Installation

Correct and incorrect examples of coupling connections

Fig. 3



The pulley must be mounted on the main shaft as close as possible to the shoulder so that it does not cause excessive radial load on the bearings (fig. 2). Great care must be taken when connecting the couplings to ensure that they are well aligned, so as not to cause excessive radial load on the bearings (fig.3). When it is applied, paint must never be used on rubber parts: oil seal, etc. It must never be applied to any breather holes in plugs if they are mounted on the unit. In the case of assemblies with oil plugs, remove the closed cap used for transport and fit it with the breather plug that is supplied with the reduction unit. When the assembly is supplied without a motor, the following precautions must be followed in order to ensure that connections are properly made

Mounting the motor on the pam B5/B14 flange

Check that the tolerance of the motor shaft and the motor flange comply with at least one 'normal' class of quality. Carefully clean off any trace of dirt or paint from the shaft, the centering diameter and the face of the flange. Carry out mounting operations making sure not to use force. If this is not possible, check the tolerance of the motor key and ensure that it is correctly fitted. Apply assembly grease to the shaft in order to prevent oxidation or seizure caused by contact.

Good quality motors should be used in order to ensure that the unit works correctly, without vibrations or noise.

Before mounting the unit on the machine, check that the principal shaft of the reduction unit rotates in the right direction.

Use the oil window, if present, to check that the lubricant reaches the correct level required for the mounting position used.

Starting up

The unit should be started up gradually: do not immediately apply the maximum load the machine is able to take ; look for and correct any malfunction that may be caused by incorrect mounting.

Running-in is not essential for the reduction unit to run properly since modern construction techniques for the gears and castings, the extreme cleanliness of the internal parts, and the excellent qualities of the lubricants used, ensure that the internal parts receive a high degree of protection even during the first moments.

Servicing

The high degree of finish of the internal parts ensures that the unit will work correctly with only a minimum amount of servicing

Generally speaking, the following rules should be followed: periodically check that the exterior of the assembly is clean, especially in the cooling areas; periodically check to see if there are any leaks, especially in the areas around the oil seals.

Assemblies that are lubricated for life and thus do not have any oil plugs do not require any special maintenance except as stated above.

For other assemblies, low maintenance is required with an oil change at 8/10,000 hours of use. The change of oil naturally depends on the type of environment and use to which the unit is put.

Apart from the normal maintenance rules given above, make sure the breather hole in the plug is clean and, using the oil window, periodically check that there is sufficient lubricant.

Should it be necessary to top up with lubricant, use the same type that is already in the reducer or one that is compatible with it.

In case of doubtful incompatibility between lubricants, we recommend you empty out the oil from the gearbox completely and, before refilling with new oil, wash out the unit to remove any residue.

When changing the oil, follow the previous instructions.

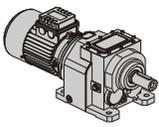
Troubleshooting

If any problems should arise when starting the unit or during its first few hours of operation, contact the after sales service unit of Motovario.

The table shows a series of problems with a description of possible remedies.

It should be kept in mind however that the information given is for reference only, as all the drives manufactured by Motovario are thoroughly tested and checked before they leave the factory.

Please note that tampering with the assembly without prior authorization from Motovario immediately invalidates the warranty and often makes it impossible to ascertain the causes of a defect or malfunction.

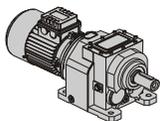


Troubleshooting

PROBLEMS	CAUSES	ACTION (1)	ACTION (2)
<i>The motor does not start.</i>	Problems with power supply. Defective motor. Wrong size of motor.	Check power supply.	Replace electric motor.
<i>Current absorbed by the motor is greater than shown on the data plate.</i>	Wrong size of motor.	Check the application.	Replace the electric motor and, if necessary, the reduction unit.
<i>Temperature of the motor housing is very high.</i>	Defective motor. Wrong size of motor. Incorrect mounting of motor	Check the application.	Replace the electric motor and, if necessary, the reduction unit.
<i>Temperature of the reduction unit housing is very high.</i>	Wrong size of reduction unit. Mounting position does not comply with the order. Incorrect mounting of motor	Check the application.	Correct the working conditions: mounting position and/or lubricant level.
<i>Incorrect rotation speed of the main reducer unit shaft.</i>	Incorrect reduction ratio. Incorrect polarity of motor.	Check reduction ratio. Check polarity of motor.	Replace reduction unit and/or electric motor.
<i>Oil leak from oil seal.</i>	Defective oil seal. Oil seal damaged during shipment. Defective motor shaft.	Replace the oil seal. Repair motor shaft (if possible).	Replace the part or return the assembly to Motovario.
<i>Oil leak from joint.</i>	Flat gasket or O-ring damaged.	Replace damaged gasket or O-ring.	Return the assembly to Motovario.
<i>The main shaft rotates the wrong way.</i>	Incorrect connection of the electric motor.	Swap two phases of the motor supply.	
<i>Intermittent noise from the gears.</i>	Dents in the gear wheels.	No practical problem if the noise has no effect on the application.	Return the assembly to Motovario if there is significant noise when loaded.

Troubleshooting

PROBLEMS	CAUSES	ACTION (1)	ACTION (2)
<i>No intermittent noise from the gears.</i>	Dirty inside the gearbox.	No practical problem if the noise has no effect on the application.	Return the assembly to Motovario if there is significant noise when loaded.
<i>Noise (whine) from the drive assembly.</i>	Bearings incorrectly adjusted. Gears with mesh errors. Insufficient lubricant.	Check correct quantity of lubricant.	Return the assembly to Motovario.
<i>Electric motor vibrates.</i>	Measurement of the assembly coupling.	Check geometric tolerance of flange on electric motor. Check tolerance and geometry of key on motor shaft.	Replace electric motor.



Lubrication H

In cases of ambient temperatures not envisaged in the table, call our Technical Service.
 In the case of temperatures under -30°C or over 60°C it is necessary to use oil seals with special properties.
 For operating ranges with temperatures under 0°C it is necessary to consider the following:

- 1- The motors need to be suitable for operation at the envisaged ambient temperature.
- 2- The power of the electric motor needs to be adequate for exceeding the higher starting torques required.
- 3- In the case of reduction units with a cast-iron case, pay attention to impact loads since cast iron may have problems of fragility at temperatures under -15°C.
- 4- During the early stages of service, problems of lubrication may arise due to the high level of viscosity taken on by the oil and so it is wise to have a few minutes of rotation under no load.

The oil needs to be changed after approximately 10,000 hours. This period depends on the type of service and the environment where the reduction unit works.
 For units supplied without oil plugs, lubrication is permanent and so they need no servicing.

- I riduttori di media/grossa taglia vengono forniti privi di olio e completi dei tappi necessari a garantire tutte le posizioni di piazzamento. I suddetti riduttori vengono contraddistinti dall'applicazione della relativa targhetta.

I **Attenzione:** riduttore privo di lubrificante, riempire a livello prima dell'avviamento.

GB **Attention:** gearbox unit without lubricant, fill it up to the level before starting.

D **Achtung:** Getriebe ohne Schmierstoff, bitte vor Inbetriebnahme füllen.

F **Attention:** groupe sans lubrifiant, remplir au niveau avant le démarrage.

E **Atención:** grupo sin lubricante, llenar hasta el nivel antes de la puesta en marcha.

	T°C	(-5) ÷ (+40)	(-15) ÷ (+25)
Olio minerale Mineral oil Mineralöl Huile minérale Aceite mineral.	ISO VG...	ISO VG220	ISO VG150

Lubrication H

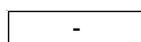
T°C ISO VG...	(-5) ÷ (+40) ISO VG220	(-15) ÷ (+25) ISO VG150
AGIP	BLASIA 220	BLASIA 150
SHELL	OMALA OIL220	OMALA OIL150
ESSO	SPARTAN EP220	SPARTAN EP150
MOBIL	MOBILGEAR 630	MOBILGEAR 629
CASTROL	ALPHA MAX 220	ALPHA MAX 150
BP	ENERGOL GR-XP220	ENERGOL GR-XP150

Mineral oil

	030	040	050	060	080	100	125	140
H								

	041	051	061	081	101	121
H						

- Motovario dispone la lubrificazione dei gruppi come indicato in tabella.



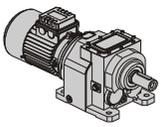
- non esiste



- non lubrificato

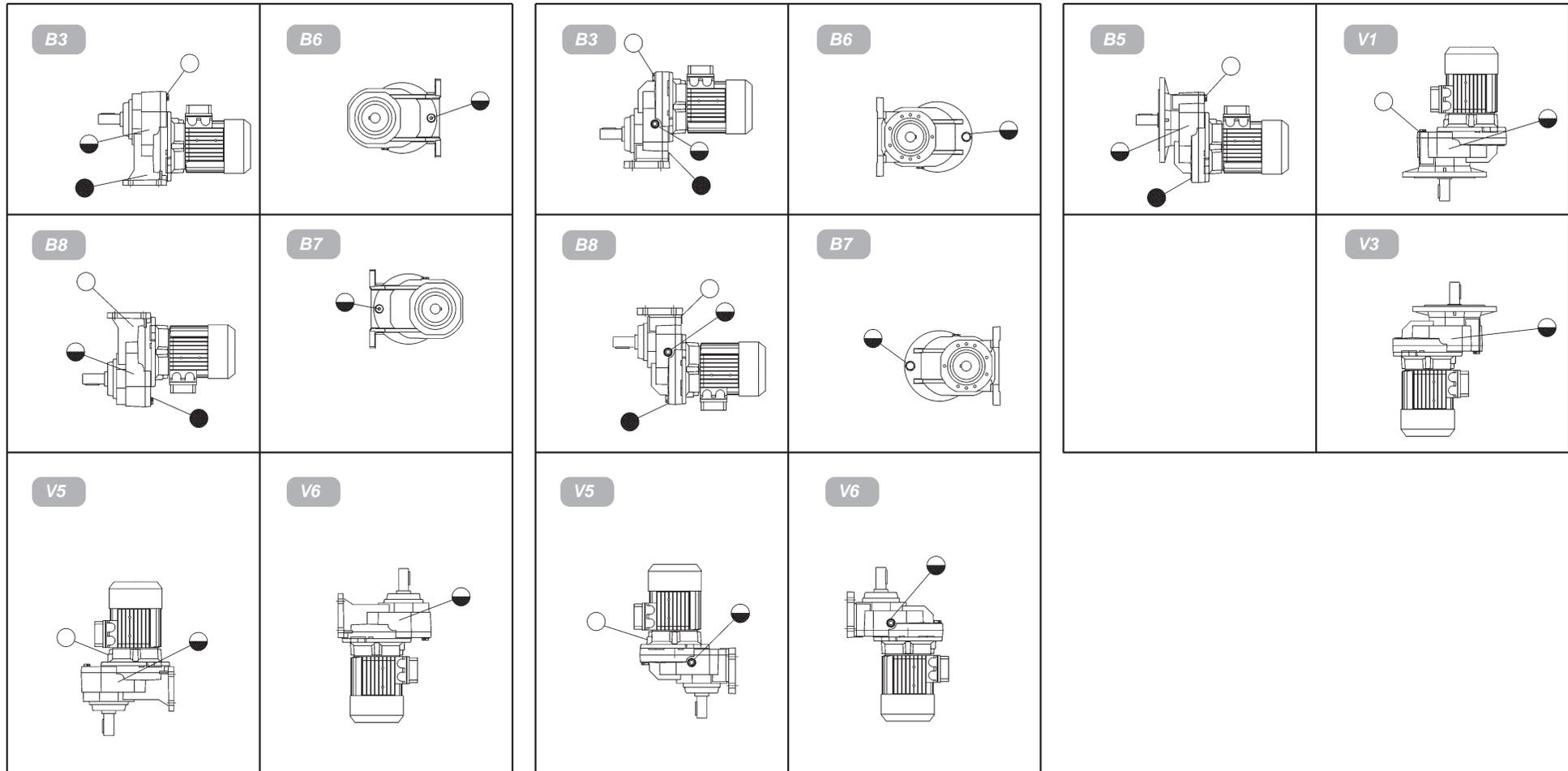


- lubrificato

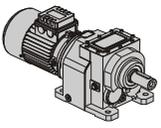


Mounting position

041÷120



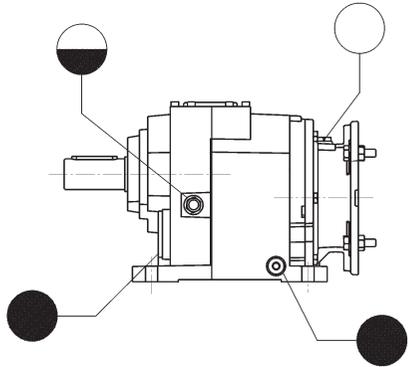
- Oil fill / breather plug
- ◐ Oil level plug
- Oil drain plug



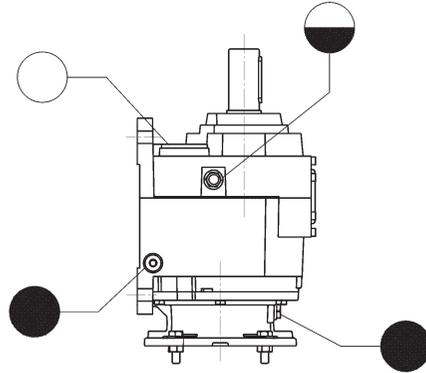
Mounting position

025÷150

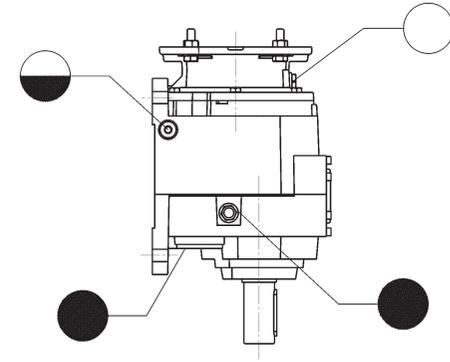
B3



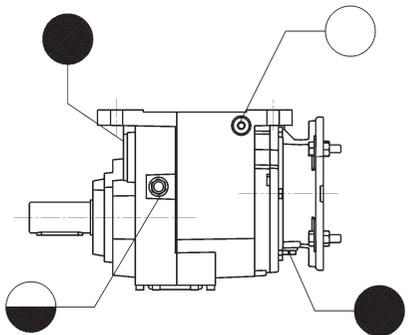
V6



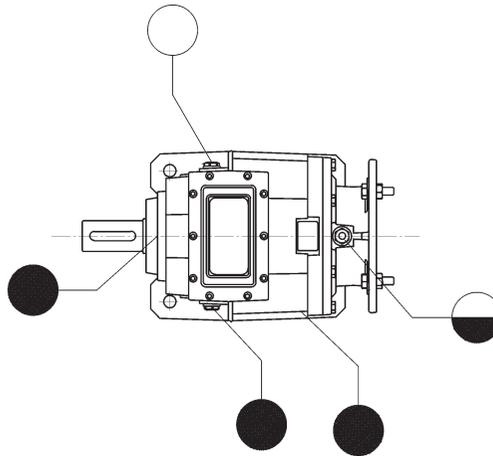
V5



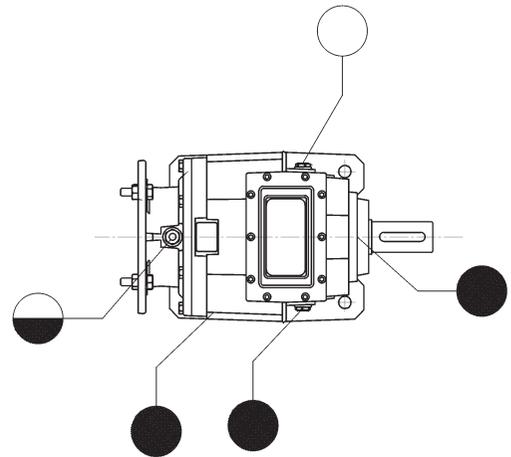
B8



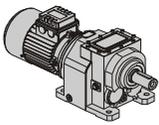
B7



B6



- Oil fill / breather plug
- ◐ Oil level plug
- Oil drain plug



Critical applications

The performance given in the catalogue correspond to mounting position B3 or similar, ie. when the first stage is not entirely immersed in oil. For other mounting positions and/or particular input speeds, refer to the tables that highlight different critical situations for each size of reduction unit.

It is also necessary to take due consideration of and carefully assess the following applications by calling our Technical Service:

- As a speed increasing.
- Use in services that could be hazardous for people if the reduction unit fails.
- Applications with especially high inertia.
- Use as a lifting winch.
- Applications with high dynamic strain on the case of the reduction unit.
- In places with T° under -5°C or over 40°C.
- Use in chemically aggressive environments.
- Use in a salty environment.
- Mounting positions not envisaged in the catalogue.
- Use in radioactive environments.
- Use in environments pressures other than atmospheric pressure.

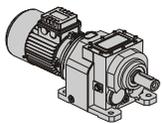
Avoid applications where even partial immersion of the reduction unit is required.

The maximum torque (*) that the gear reducer can support must not exceed two times the nominal torque (f.s.=1) stated in the performance tables. (*) intended for momentary overloads due to starting at full load, braking, shocks or other causes, particularly those that are dynamic.

H	030	040	050	060	080	100	125	140
V5 - V1: 1500 < n1 < 3000	-	-	-	-	-	-	B	B
n1 > 3000	B	B	B	B	B	B	A	A
V3 - V6	B	B	B	B	B	B	B	B

A - Application not recommended

B - Check the application and/or call our technical service

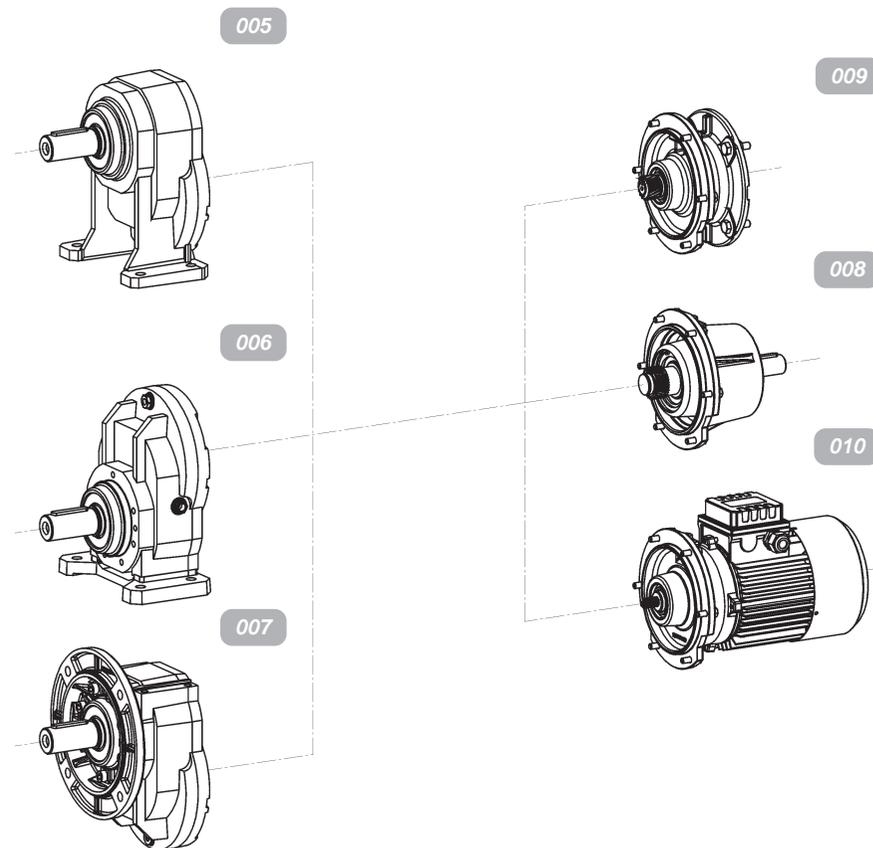
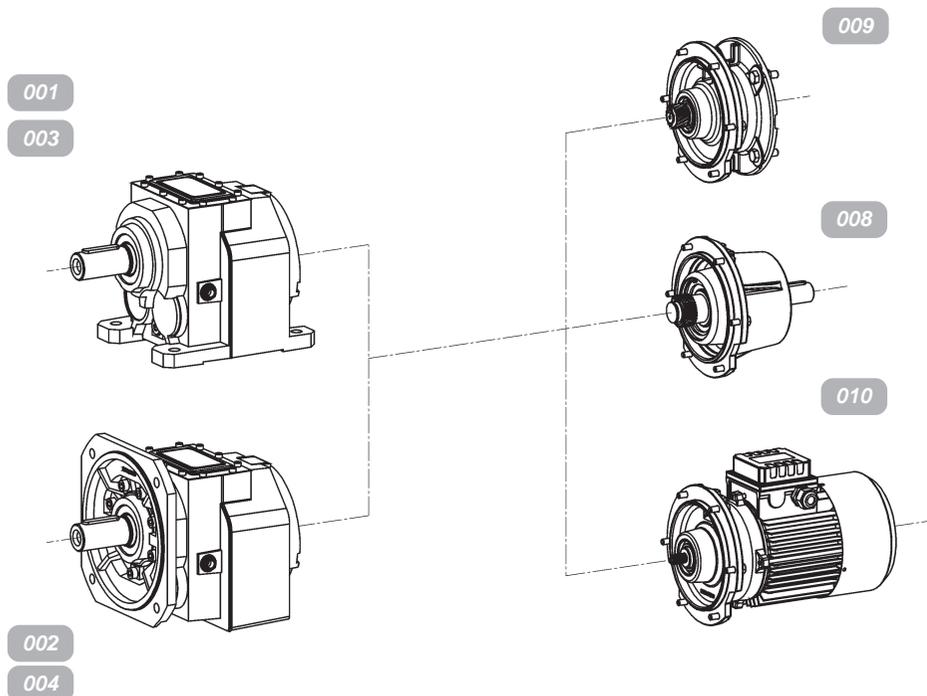


Spare parts tables

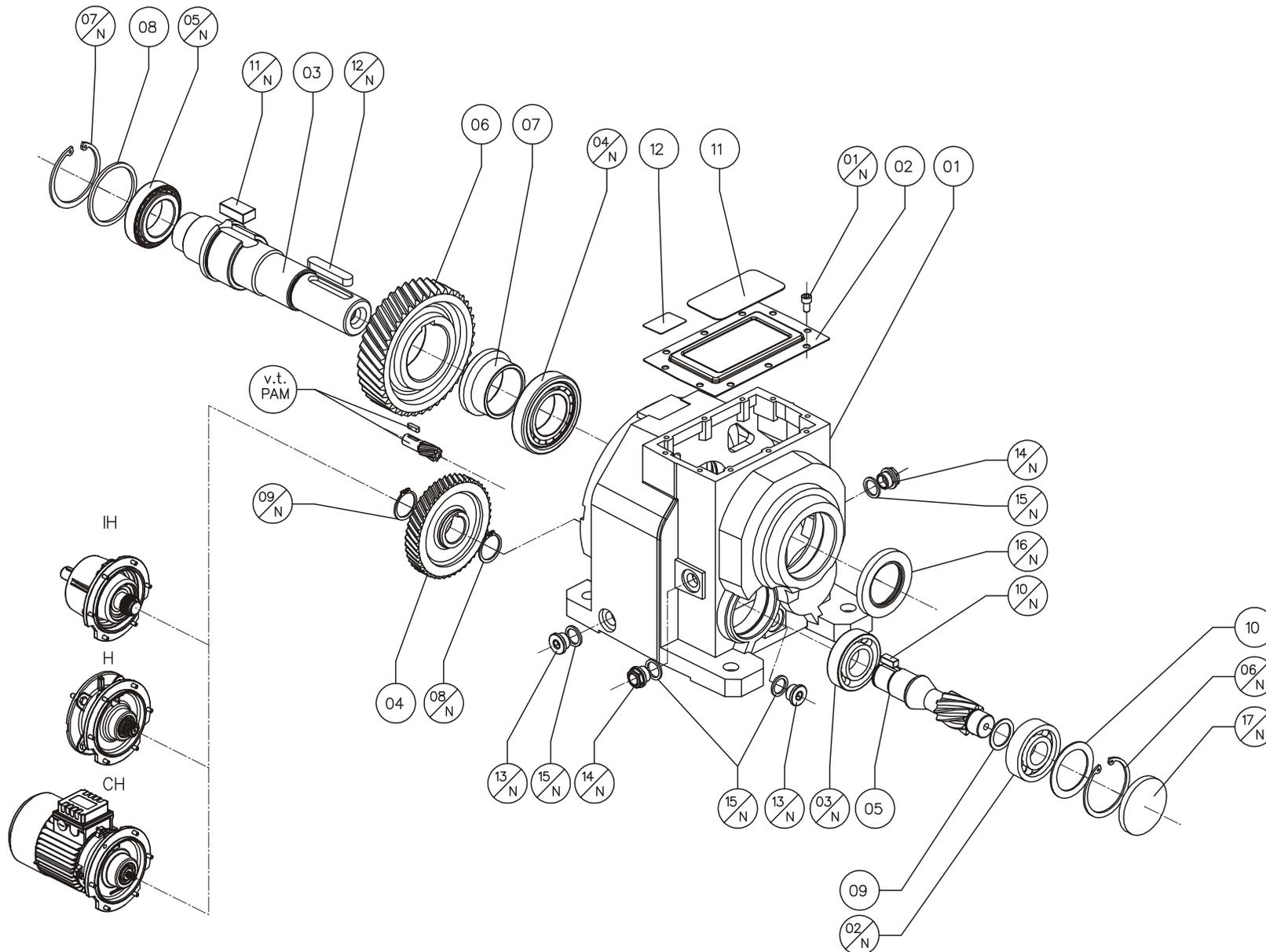
030÷140

Spare parts tables

041÷121

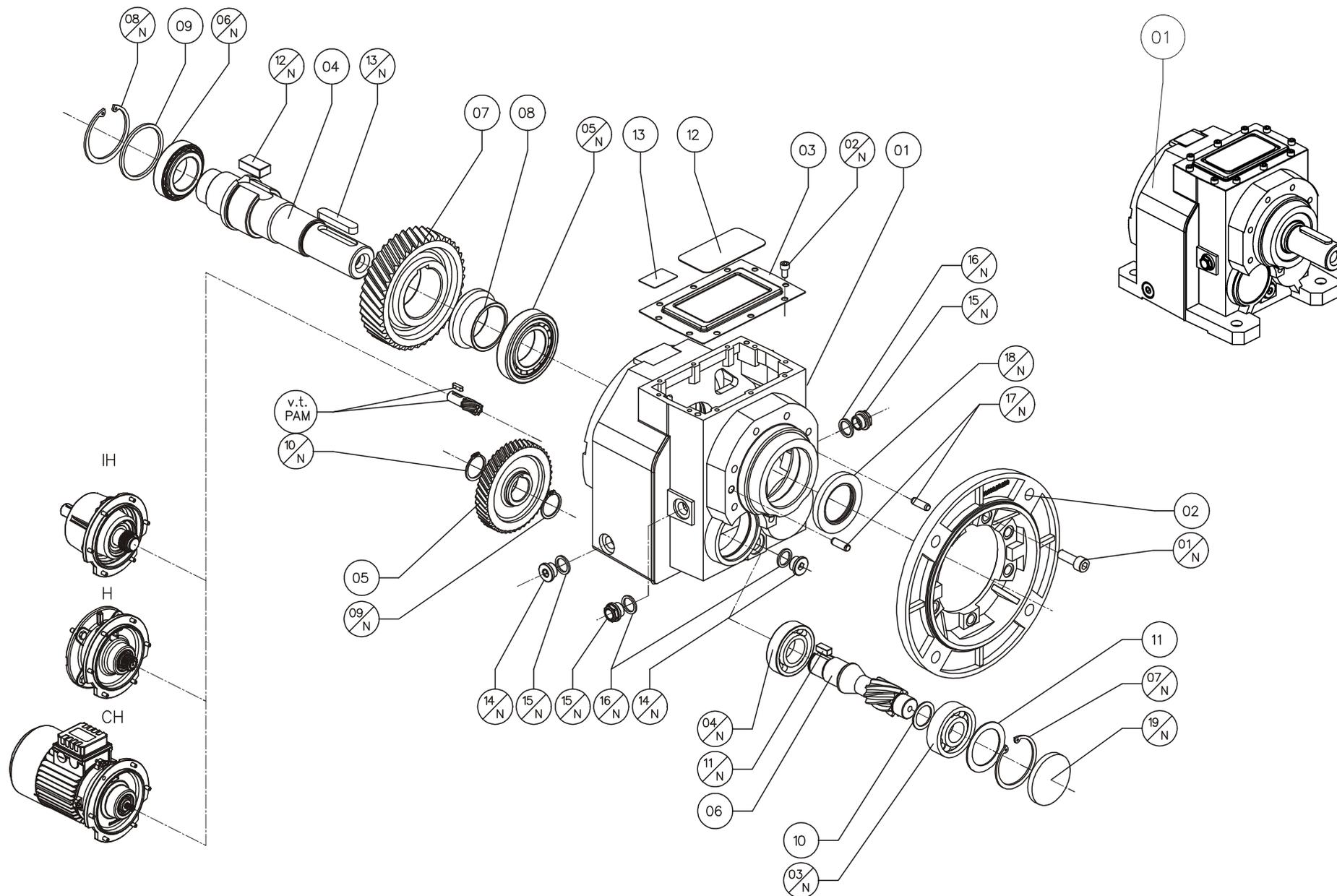


P = Project of pertinence
T = Reference table
C = Part number



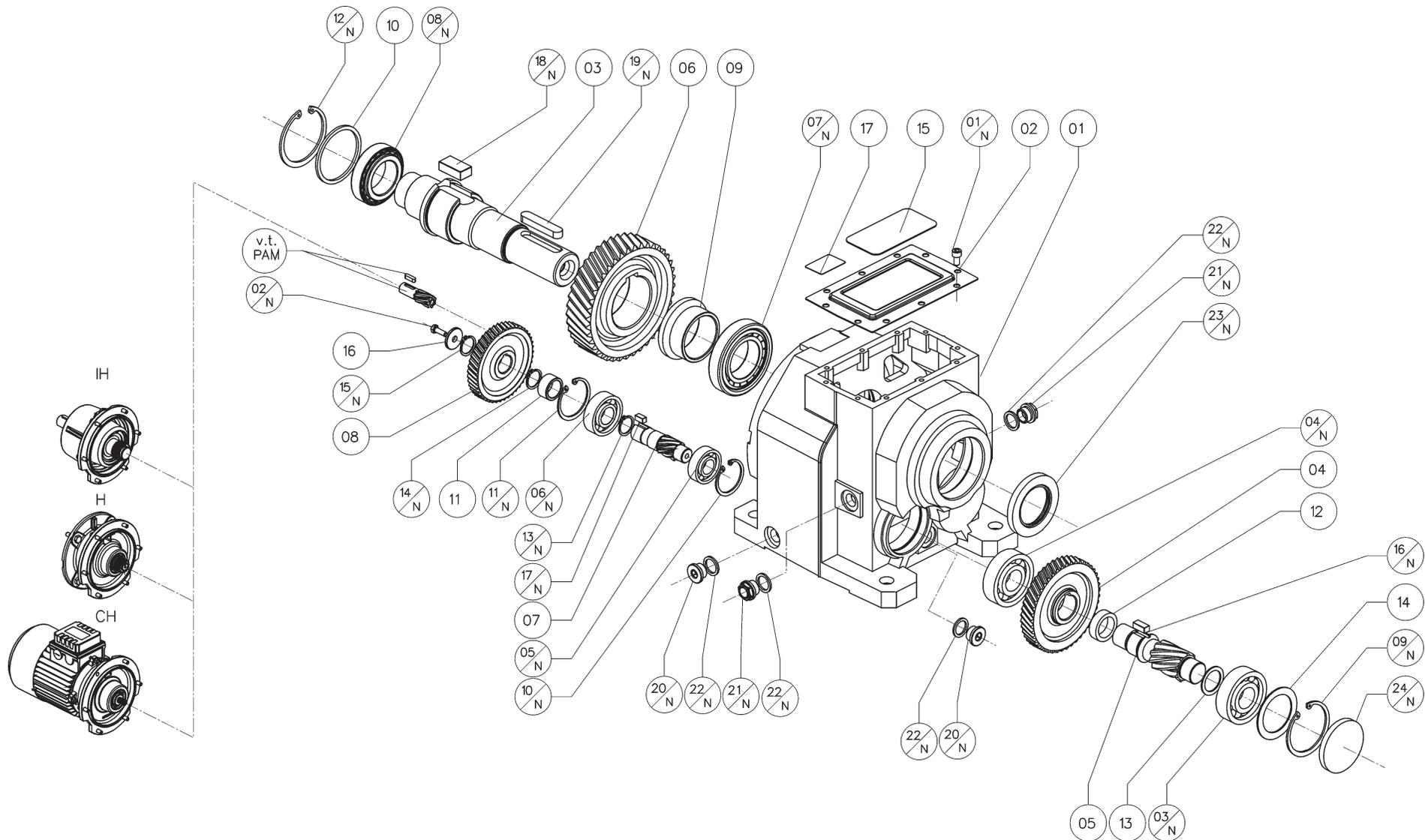
T	C	Built	032	042	052	062	082	102	122	142
001	01	Casing with foot	H.030.01	H.040.01	H.050.01	H.060.01	H.080.01	H.100.01	H.125.01	H.140.01
001	02	Cover	H.030.07	H.030.07	H.050.07	H.060.07	H.080.07	H.100.07	H.125.07	H.140.07
001	03	Output Shaft	H.030.18.25	H.040.18.30	H.050.18.35	H.060.18.40	H.080.18.50	H.100.18.60	H.125.18.70	H.140.18.90
001	04	Gear	H.030.24	H.030.24	H.050.24	H.060.24	H.080.24	H.100.24	H.125.24	H.140.24
001	05	Pinion	H.030.25	H.030.25	H.050.25	H.060.25	H.080.25	H.100.25	H.125.25	H.140.25
001	06	Gear	H.030.26	H.040.26	8.070.26	H.060.26	H.080.26	H.100.26	H.125.26	H.140.26
001	07	Gear spacer	H.030.39	H.040.39	H.050.39	H.060.39	H.080.39	H.100.39	H.125.39	H.140.39
001	08	Bearing spacer	H.030.32	ADS 47x37x2	ADS 55x45x2	H.060.32	8.063.32	8.100.32	ADS 120x100x3,5	H.140.32
001	09	Bearing spacer	-	-	(ADS 28x20x1,5)	-	-	-	-	-
001	10	Bearing spacer	-	-	-	-	ADS 62x50x3	8.063.32	8.080.32	ADS 100x80x3,5
001	11	Plate	H.030.100	H.030.100	H.030.100	H.060.100	H.060.100	H.060.100	H.060.100	H.060.100
001	12	Plate	9.040.99	9.040.99	9.040.99	9.040.99	9.040.99	9.040.99	9.040.99	9.040.99
PAM	-	Pinion (tav.10)								

T	C	Commercial	032		042		052		062		082		102		122		142	
001	01/N	Screw DIN 912	M6x12	6	M6x12	6	M6x12	6	M6x12	10	M6x12	10	M6x12	10	M6x12	12	M8x16	12
001	02/N	Bearing	6202 2RS1 C3 G11	1	6302 2RS1 C3 G11	1	6304 2RS1 C3 G11	1	6305 2RS1 C3 G11	1	30206	1	30307	1	30308	1	30309	1
001	03/N	Bearing	6003 2RS1 C3 G11	1	6003 2RS1 C3 G11	1	6005 2RS1 C3 G11	1	6206 2RS1 C3 G11	1	32007x	1	30208	1	32210	1	32211	1
001	04/N	Bearing	32006x	1	32007x	1	32008x	1	30209	1	30211	1	30213	1	32018x	1	30220	1
001	05/N	Bearing	30203	1	32005x	1	32006x	1	32008x	1	32010x	1	30212	1	32213	1	30216	1
001	06/N	Circlip DIN 472	35	1	42	1	52	1	62	1	62	1	80	1	90	1	100	1
001	07/N	Circlip DIN 472	40	1	47	1	55	1	68	1	80	1	110	1	120	1	140	1
001	08/N	Circlip DIN 471	15	1	15	1	.	-	28	1	-	-	38	1	-	-	-	-
001	09/N	Circlip DIN 471	15	1	15	1	20	1	28	1	32	1	38	1	45	1	50	1
001	10/N	Key DIN 6885	B 5x5x12	1	B 5x5x12	1	B 6x6x14	1	B 8x7x18	1	B 10x8x25	1	B 10x8x30	-	B 14x9x40	-	B 14x9x45	-
001	11/N	Key DIN 6885	B 8x7x20	1	B 10x8x25	1	B 16x10x30	1	B 18x11x34	1	B 20x12x40	1	B 25x14x50	1	B 28x16x60	1	816038	1
001	12/N	Key DIN 6885	A 8x7x35	1	A 8x7x50	1	A 10x8x50	1	A 12x8x60	1	A 14x9x80	1	A 18x11x100	1	A 20x12x110	1	A 25x14x140	1
001	13/N	Closing plug	-	-	-	-	-	-	3/8" gas	2	3/8" gas	2	1/2" gas	2	1/2" gas	2	1/2" gas	2
001	14/N	Oil level plug	-	-	-	-	-	-	3/8" gas	2	3/8" gas	2	1/2" gas	2	1/2" gas	2	1/2" gas	2
001	15/N	Gasket	-	-	-	-	-	-	3/8" gas	4	3/8" gas	4	1/2" gas	4	1/2" gas	4	1/2" gas	4
001	16/N	Oil Seal DIN 3760	AS 30-47-7	1	AS 35-52-7	1	AS 40-62-8	1	AS 45-72-8	1	AS 55-80-8	1	AS 65-100-10	1	AS 90-120-12	1	AS 100-130-12	1
001	17/N	Cap	RCA 35-5	1	RCA 42-7	1	RCA 52-7	1	RCA 62-7	1	RCA 62-7	1	RCA 80-10	1	RCA 90-10	1	RCA 100-10	1



P	T	C	Built	032	042	052	062	082	102	122	142
H	002	1	Casing with flange	H.030.02	H.040.02	H.050.02	H.060.02	H.080.02	H.100.02	H.125.02	H.140.02
H	002	1	Casing universal	H.030.05	H.040.05	H.050.05	H.060.05	H.080.05	H.100.05	H.125.05	H.140.05
H	002	2	Flange FA	H.030.06.200	H.030.06.200	H.050.06.250	H.060.06.300	H.080.06.350	-	-	-
H	002	2	Flange FB	H.030.06.160	H.030.06.160	H.050.06.200	H.060.06.250	H.080.06.300	H.100.06.350	H.125.06.400	H.140.06.450
H	002	3	Flange FC	H.030.06.140	H.030.06.140	-	-	-	H.100.06.300	-	H.140.06.400
H	002	3	Cover	H.030.07	H.030.07	H.050.07	H.060.07	H.080.07	H.100.07	H.125.07	H.140.07
H	002	4	Output Shaft	H.030.18.25.1	H.040.18.30	H.050.18.35	H.060.18.40	H.080.18.50	H.100.18.60	H.125.18.70	H.140.18.90
H	002	5	Gear	H.030.24	H.030.24	H.050.24	H.060.24	H.080.24	H.100.24	H.125.24	H.140.24
H	002	6	Pinion	H.030.25	H.030.25	H.050.25	H.060.25	H.080.25	H.100.25	H.125.25	H.140.25
H	002	7	Gear	H.030.26	H.040.26	H.070.26	H.060.26	H.080.26	H.100.26	H.125.26	H.140.26
H	002	8	Bearing spacer	H.030.39	H.040.39	H.050.39	H.060.39	H.080.39	H.100.39	H.125.39	H.140.39
H	002	9	Bearing spacer	H.030.32	ADS 47x37x2	ADS 55x45x2	H.060.32	8.063.32	8.100.32	ADS 120x100x3,5	H.140.32
H	002	10	Bearing spacer	-	-	(ADS 28x20x1,5)	-	-	-	-	-
H	002	11	Bearing spacer	-	-	-	-	ADS 62x50x3	806332	808032	ADS 100x80x3,5
H	002	12	Plate	H.030.100	H.030.100	H.030.100	H.060.100	H.060.100	H.060.100	H.060.100	H.060.100
H	002	13	Plate	9.040.99	9.040.99	9.040.99	9.040.99	9.040.99	9.040.99	9.040.99	9.040.99
H	PAM	-	Pinion (tav.10)								

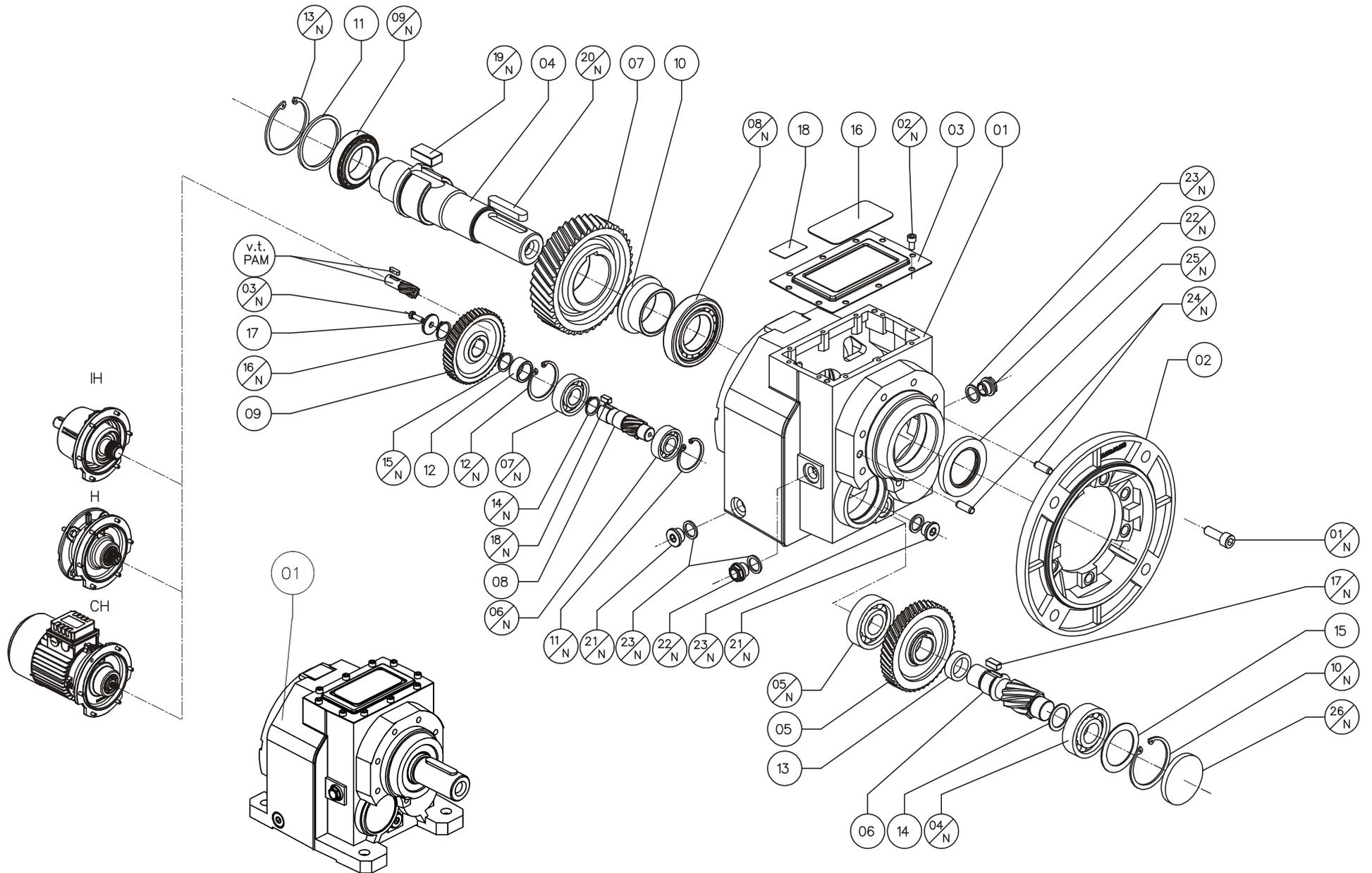
P	T	C	Commercial	032		042		052		062		082		102		122		142	
H	002	01/N	Screw DIN 912	M8x20	5	M8x20	5	M8x25	5	M10x30	7	M12x35	7	M14x40	7	M14x40	7	M16x45	7
H	002	02/N	Screw DIN 912	M6x12	6	M6x12	6	M6x12	6	M6x12	10	M6x12	10	M6x12	10	M6x12	12	M8x16	12
H	002	03/N	Bearing	6202 2RS1 C3 G11	1	6302 2RS1 C3 G11	1	6304 2RS1 C3 G11	1	6305 2RS1 C3 G11	1	30206	1	30307	1	30308	1	30309	1
H	002	04/N	Bearing	6003 2RS1 C3 G11	1	6003 2RS1 C3 G11	1	6005 2RS1 C3 G11	1	6206 2RS1 C3 G11	1	32007x	1	30208	1	32210	1	32211	1
H	002	05/N	Bearing	32006x	1	32007x	1	32008x	1	30209	1	30211	1	30213	1	32018x	1	30220	1
H	002	06/N	Bearing	30203	1	32005x	1	32006x	1	32008x	1	32010x	1	30212	1	32213	1	30216	1
H	002	07/N	Circlip DIN 472	35	1	42	1	52	1	62	1	62	1	80	1	90	1	100	1
H	002	08/N	Circlip DIN 472	40	1	47	1	55	1	68	1	80	1	110	1	120	1	140	1
H	002	09/N	Circlip DIN 471	15	1	15	1	.	-	28	1	-	-	38	1	-	-	-	-
H	002	10/N	Circlip DIN 471	15	1	15	1	20	1	28	1	32	1	38	1	45	1	50	1
H	002	11/N	Key DIN 6885	B 5x5x12	1	B 5x5x12	1	B 6x6x14	1	B 8x7x18	1	B 10x8x25	1	B 10x8x30	-	B 14x9x40	-	B 14x9x45	-
H	002	12/N	Key DIN 6885	B 8x7x20	1	B 10x8x25	1	B16x10x30	1	B 18x11x34	1	B 20x12x40	1	B 25x14x50	1	B 28x16x60	1	816038	1
H	002	13/N	Key DIN 6885	A 8x7x35	1	A 8x7x50	1	A 10x8x50	1	A 12x8x60	1	A 14x9x80	1	A 18x11x100	1	A 20x12x110	1	A 25x14x140	1
H	002	14/N	Closing plug	-	-	-	-	-	-	3/8" gas	2	3/8" gas	2	1/2" gas	2	1/2" gas	2	1/2" gas	2
H	002	15/N	Oil level plug	-	-	-	-	-	-	3/8" gas	2	3/8" gas	2	1/2" gas	2	1/2" gas	2	1/2" gas	2
H	002	16/N	Gasket	-	-	-	-	-	-	3/8" gas	4	3/8" gas	4	1/2" gas	4	1/2" gas	4	1/2" gas	4
H	002	17/N	Dowel pin DIN 7344	6x16	2	6x16	2	6x16	2	8x24	2	10x30	2	12x36	2	12x36	2	14x40	2
H	002	18/N	Oil Seal DIN 3760	AS 30-47-7	1	AS 35-52-7	1	AS 40-62-8	1	AS 45-72-8	1	AS 55-80-8	1	AS 65-100-10	1	AS 90-120-12	1	AS 100-130-12	1
H	002	19/N	Cap	RCA 35-5	1	RCA 42-7	1	RCA 52-7	1	RCA 62-7	1	RCA 62-7	1	RCA 80-10	1	RCA 90-10	1	RCA 100-10	1



P	T	C	Built	033	043	053	063	083	103	123	143
H	003	1	Casing with foot	H.030.01	H.040.01	H.050.01	H.060.01.1	H.080.01	H.100.01	H.125.01	H.140.01
H	003	2	Cover	H.030.07	H.030.07	H.050.07	H.060.07	H.080.07	H.100.07	H.125.07	H.140.07
H	003	3	Output Shaft	H.030.18.25	H.040.18.30	H.050.18.35	H.060.18.40	H.080.18.50	H.100.18.60	H.125.18.70	H.140.18.90
H	003	4	Gear	H.030.24	H.030.24	H.050.24	H.060.24	H.080.24	H.100.24	H.125.24	H.140.24
H	003	5	Pinion	H.030.28	H.030.28	8.070.25	H.060.28	H.080.28	H.100.28	H.125.28	H.140.28
H	003	6	Gear	H.030.26	H.040.26	8.070.26	H.060.26	H.080.26	H.100.26	H.125.26	H.140.26
H	003	7	Pinion	H.030.27.15.1	H.030.27.15.1	H.050.27.16.1	H.060.27.11	H.080.27.15	H.100.27.15	H.125.27.15	H.140.27.15
H	003	8	Gear	H.030.29.65	H.030.29.65	H.030.29.65	H.050.24.67	H.060.24.67	H.080.24.76	H.100.24.85	H.125.24.77
H	003	9	Bearing spacer	H.030.39	H.040.39	H.050.39	H.060.39	H.080.39	H.100.39	H.125.39	H.140.39
H	003	10	Bearing spacer	H.030.32	ADS 47x37x2	ADS 55x45x2	H.060.32	8.063.32	8.100.32	ADS 120x100x3,5	H.140.32
H	003	11	Bearing spacer	-	-	-	H.060.38	-	-	-	8.063.32
H	003	12	Bearing spacer	-	-	H05040	-	-	-	-	-
H	003	13	Bearing spacer	-	-	(ADS 28x20x1,5)	-	-	-	-	-
H	003	14	Bearing spacer	-	-	-	-	ADS 62x50x3	8.063.32	8.080.32	ADS 100x80x3,5
H	003	15	Plate	H.030.100	H.030.100	H.030.100	H.060.100	H.060.100	H.060.100	H.060.100	H.060.100
H	003	16	Retaining ring	-	-	-	2.080.27	0.080.34	8.125.34	8.125.34	0.160.34
H	003	17	Plate	9.040.99.3	9.040.99.3	9.040.99.3	9.040.99.3	9.040.99.3	9.040.99.3	9.040.99.3	9.040.99.3
H	PAM	-	Pinion (tav.10)								

P	T	C	Commercial	033		043		053		063		083		103		123		143	
H	003	01/N	Screw DIN 912	M6x12	6	M6x12	6	M6x12	6	M6x12	10	M6x12	10	M6x12	10	M6x12	12	M8x16	12
H	003	02/N	Screw DIN 931	-	-	-	-	-	-	M5x16	1	M8x20	1	M12x30	1	M12x35	1	M16x40	1
H	003	03/N	Bearing	6202 2RS1 C3 G11	1	6302 2RS1 C3 G11	1	6304 2RS1 C3 G11	1	6305 2RS1 C3 G11	1	30206	1	30307	1	30308	1	30309	1
H	003	04/N	Bearing	6202 2RS1 C3 G11	1	6202 2RS1 C3 G11	1	6204 2RS1 C3 G11	1	6305 2RS1 C3 G11	1	30206	1	30307	1	30308	1	30309	1
H	003	05/N	Bearing	6201	1	6201	1	6202	1	6203	1	6204 2RS1 C3 G11	1	6205 2RS1 C3 G11	1	6207	1	32008x	1
H	003	06/N	Bearing	6202	1	6202	1	6203	1	6204	1	6006	1	6207	1	6208	1	32010x	1
H	003	07/N	Bearing	32006x	1	32007x	1	32008x	1	30209	1	30211	1	30213	1	32018x	1	30220	1
H	003	08/N	Bearing	30203	1	32005x	1	32006x	1	32008x	1	32010x	1	30212	1	32213	1	30216	1
H	003	09/N	Circlip DIN 472	35	1	42	1	52	1	62	1	62	1	80	1	90	1	100	1
H	003	10/N	Circlip DIN 472	-	-	-	-	-	-	40	1	47	1	52	1	-	-	-	-
H	003	11/N	Circlip DIN 472	35	1	35	1	40	1	47	1	55	1	72	1	80	1	80	1
H	003	12/N	Circlip DIN 472	40	1	47	1	55	1	68	1	80	1	110	1	120	1	140	1
H	003	13/N	Circlip DIN 471	-	-	-	-	-	-	20	1	-	-	35	1	-	-	-	-
H	003	14/N	Circlip DIN 471	14	1	14	1	-	-	-	-	28	1	32	1	38	1	-	-
H	003	15/N	Circlip DIN 471	14	1	14	1	14	1	-	-	-	-	-	-	-	-	-	-

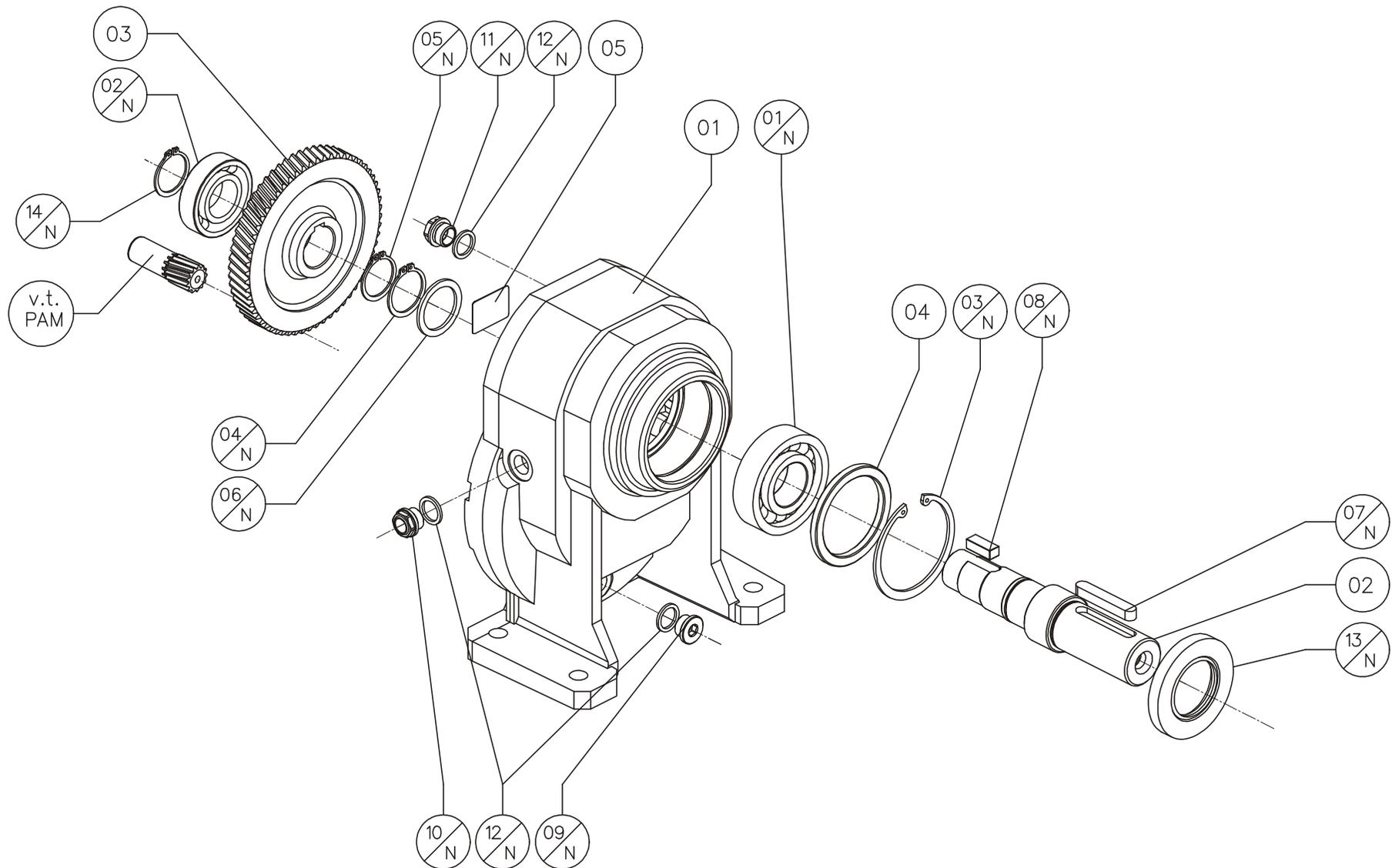
P	T	C	Commercial	033		043		053		063		083		103		123		143	
H	003	16/N	Key DIN 6885	B 5x5x12	1	B 5x5x12	1	B 6x6x14	1	B 8x7x18	1	B 10x8x25	1	B 10x8x30	-	B 14x9x40	-	B 14x9x45	1
H	003	17/N	Key DIN 6885	B 5x5x12	1	B 5x5x12	1	B 5x5x12	1	B 6x6x12	1	B 8x7x18	1	B 10x8x22	1	B 10x8x30	1	B 14x9x40	1
H	003	18/N	Key DIN 6885	B 8x7x20	1	B 10x8x25	1	B16x10x30	1	B 18x11x34	1	B 20x12x40	1	B 25x14x50	1	B 28x16x60	1	816038	1
H	003	19/N	Key DIN 6885	A 8x7x35	1	A 8x7x50	1	A 10x8x50	1	A 12x8x60	1	A 14x9x80	1	A 18x11x100	1	A 20x12x110	1	A 25x14x140	1
H	003	20/N	Closing plug	-	-	-	-	-	-	3/8" gas	2	3/8" gas	2	1/2" gas	2	1/2" gas	2	1/2" gas	2
H	003	21/N	Oil level plug	-	-	-	-	-	-	3/8" gas	2	3/8" gas	2	1/2" gas	2	1/2" gas	2	1/2" gas	2
H	003	22/N	Gasket	-	-	-	-	-	-	3/8" gas	4	3/8" gas	4	1/2" gas	4	1/2" gas	4	1/2" gas	4
H	003	23/N	Oil Seal DIN 3760	AS 30-47-7	1	AS 35-52-7	1	AS 40-62-8	1	AS 45-72-8	1	AS 55-80-8	1	AS 65-100-10	1	AS 90-120-12	1	AS 100-130-12	1
H	003	24/N	Cap	RCA 35-5	1	RCA 42-7	1	RCA 52-7	1	RCA 62-7	1	RCA 62-7	1	RCA 80-10	1	RCA 90-10	1	RCA 100-10	1



P	T	C	Built	033	043	053	063	083	103	123	143
H	004	1	Casing with flange	H.030.02	H.040.02	H.050.02	H.060.02.1	H.080.02	H.100.02	H.125.02	H.140.02
H	004	1	Casing universal	H.030.05	H.040.05	H.050.05	H.060.05	H.080.05	H.100.05	H.125.05	H.140.05
H	004	2	Flange FA	H.030.06.200	H.030.06.200	H.050.06.250	H.060.06.300	H.080.06.350	-	-	-
H	004	2	Flange FB	H.030.06.160	H.030.06.160	H.050.06.200	H.060.06.250	H.080.06.300	H.100.06.350	H.125.06.400	H.140.06.450
H	004	2	Flange FC	H.030.06.140	H.030.06.140	-	-	-	H.100.06.300	-	H.140.06.400
H	004	3	Cover	H.030.07	H.030.07	H.050.07	H.060.07	H.080.07	H.100.07	H.125.07	H.140.07
H	004	4	Output Shaft	H.030.18.25.1	H.040.18.30	H.050.18.35	H.060.18.40	H.080.18.50	H.100.18.60	H.125.18.70	H.140.18.90
H	004	5	Gear	H.030.24	H.030.24	H.050.24	H.060.24	H.080.24	H.100.24	H.125.24	H.140.24
H	004	6	Pinion	H.030.28	H.030.28	8.070.25	H.060.28	H.080.28	H.100.28	H.125.28	H.140.28
H	004	7	Gear	H.030.26	H.040.26	8.070.26	H.060.26	H.080.26	H.100.26	H.125.26	H.140.26
H	004	8	Pinion	H.030.27.15.1	H.030.27.15.1	H.050.27.16.1	H.060.27.11	H.080.27.15	H.100.27.15	H.125.27.15	H.140.27.15
H	004	9	Gear	H.030.29.65	H.030.29.65	H.030.29.65	H.050.24.67	H.060.24.67	H.080.24.76	H.100.24.85	H.125.24.77
H	004	10	Spacer gear	H.030.39	H.040.39	H.050.39	H.060.39	H.080.39	H.100.39	H.125.39	H.140.39
H	004	11	Bearing spacer	H.030.32	ADS 47x37x2	ADS 55x45x2	H.060.32	8.063.32	8.100.32	ADS 120x100x3,5	H.140.32
H	004	12	Bearing spacer	-	-	-	H.060.38	-	-	-	8.063.32
H	004	13	Bearing spacer	-	-	H05040	-	-	-	-	-
H	004	14	Bearing spacer	-	-	(ADS 28x20x1,5)	-	-	-	-	-
H	004	15	Bearing spacer	-	-	-	-	ADS 62x50x3	806332	808032	ADS 100x80x3,5
H	004	16	Plate	H.030.100	H.030.100	H.030.100	H.060.100	H.060.100	H.060.100	H.060.100	H.060.100
H	004	17	Retaining ring	-	-	-	2.080.27	0.080.34	8.125.34	8.125.34	0.160.34
H	004	18	Plate	9.040.99.3	9.040.99.3	9.040.99.3	9.040.99.3	9.040.99.3	9.040.99.3	9.040.99.3	9.040.99.3
H	PAM	-	Pinion (tav.10)								

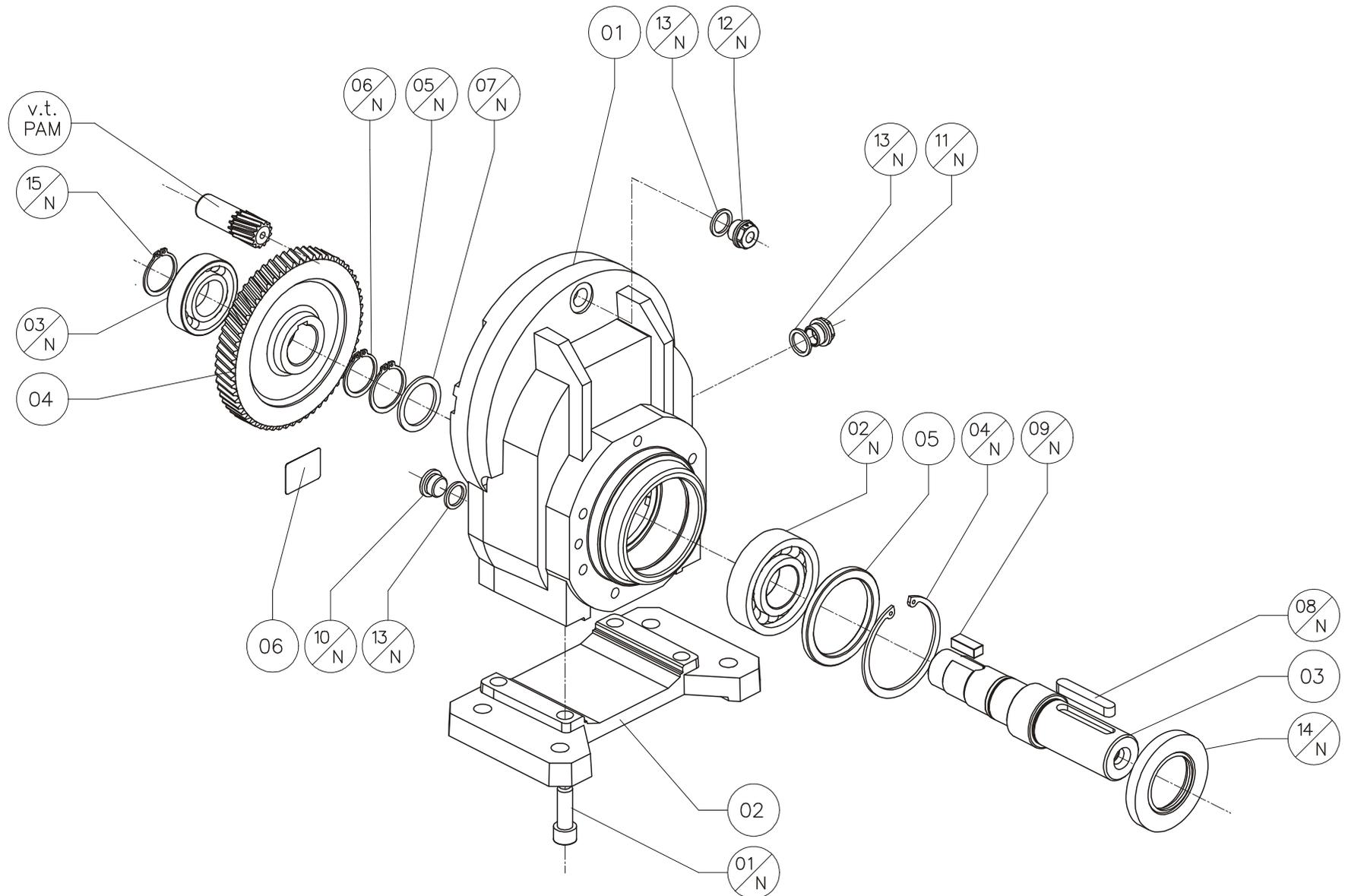
P	T	C	Commercial	033		043		053		063		083		103		123		143	
H	004	01/N	Screw DIN 912	M8x20	5	M8x20	5	M8x25	5	M10x30	7	M12x35	7	M14x40	7	M14x40	7	M16x45	7
H	004	02/N	Screw DIN 912	M6x12	6	M6x12	6	M6x12	6	M6x12	10	M6x12	10	M6x12	10	M6x12	12	M8x16	12
H	004	03/N	Screw DIN 931	-	-	-	-	-	-	M5x16	1	M8x20	1	M12x30	1	M12x35	1	M16x40	1
H	004	04/N	Bearing	6202 2RS1 C3 G11	1	6302 2RS1 C3 G11	1	6304 2RS1 C3 G11	1	6305 2RS1 C3 G11	1	30206	1	30307	1	30308	1	30309	1
H	004	05/N	Bearing	6202 2RS1 C3 G11	1	6202 2RS1 C3 G11	1	6204 2RS1 C3 G11	1	6305 2RS1 C3 G11	1	30206	1	30307	1	30308	1	30309	1
H	004	06/N	Bearing	6201	1	6201	1	6202	1	6203	1	6204 2RS1 C3 G11	1	6205 2RS1 C3 G11	1	6207	1	32008x	1
H	004	07/N	Bearing	6202	1	6202	1	6203	1	6204	1	6006	1	6207	1	6208	1	32010x	1
H	004	08/N	Bearing	32006x	1	32007x	1	32008x	1	30209	1	30211	1	30213	1	32018x	1	30220	1
H	004	09/N	Bearing	30203	1	32005x	1	32006x	1	32008x	1	32010x	1	30212	1	32213	1	30216	1
H	004	10/N	Circlip DIN 472	35	1	42	1	52		62	1	62	1	80	1	90	1	100	1
H	004	11/N	Circlip DIN 472	-	-	-	-	-	-	40	1	47	1	52	1	-	-	-	-
H	004	12/N	Circlip DIN 472	35	1	35	1	40		47	1	55	1	72	1	80	1	80	1
H	004	13/N	Circlip DIN 472	40	1	47	1	55		68	1	80	1	110	1	120	1	140	1
H	004	14/N	Circlip DIN 471	-	-	-	-	-	-	20	1	-	-	35	1	-	-	-	-
H	004	15/N	Circlip DIN 471	14	1	14	1	-	-	-	-	28	1	32	1	38	1	-	-

P	T	C	Commercial	033		043		053		063		083		103		123		143	
H	004	16/N	Circlip DIN 471	14	1	14	1	14	1	-	-	-	-	-	-	-	-	-	-
H	004	17/N	Key DIN 6885	B 5x5x12	1	B 5x5x12	1	B 6x6x14	1	B 8x7x18	1	B 10x8x25	1	B 10x8x30	-	B 14x9x40	-	B 14x9x45	1
H	004	18/N	Key DIN 6885	B 5x5x12	1	B 5x5x12	1	B 5x5x12	1	B 6x6x12	1	B 8x7x18	1	B 10x8x22	1	B 10x8x30	1	B 14x9x40	1
H	004	19/N	Key DIN 6885	B 8x7x20	1	B 10x8x25	1	B16x10x30	1	B 18x11x34	1	B 20x12x40	1	B 25x14x50	1	B 28x16x60	1	816038	1
H	004	20/N	Key DIN 6885	A 8x7x35	1	A 8x7x50	1	A 10x8x50	1	A 12x8x60	1	A 14x9x80	1	A 18x11x100	1	A 20x12x110	1	A 25x14x140	1
H	004	21/N	Closing plug	-	-	-	-	-	-	3/8" gas	2	3/8" gas	2	1/2" gas	2	1/2" gas	2	1/2" gas	2
H	004	22/N	Oil level plug	-	-	-	-	-	-	3/8" gas	2	3/8" gas	2	1/2" gas	2	1/2" gas	2	1/2" gas	2
H	004	23/N	Gasket	-	-	-	-	-	-	3/8" gas	4	3/8" gas	4	1/2" gas	4	1/2" gas	4	1/2" gas	4
H	004	24/N	Dowel pin DIN 7344	6x16	2	6x16	2	6x16	2	8x24	2	10x30	2	12x36	2	12x36	2	14x40	2
H	004	25/N	Oil Seal DIN 3760	AS 30-47-7	1	AS 35-52-7	1	AS 40-62-8	1	AS 45-72-8	1	AS 55-80-8	1	AS 65-100-10	1	AS 90-120-12	1	AS 100-130-12	1
H	004	26/N	Cap	RCA 35-5	1	RCA 42-7	1	RCA 52-7	1	RCA 62-7	1	RCA 62-7	1	RCA 80-10	1	RCA 90-10	1	RCA 100-10	1



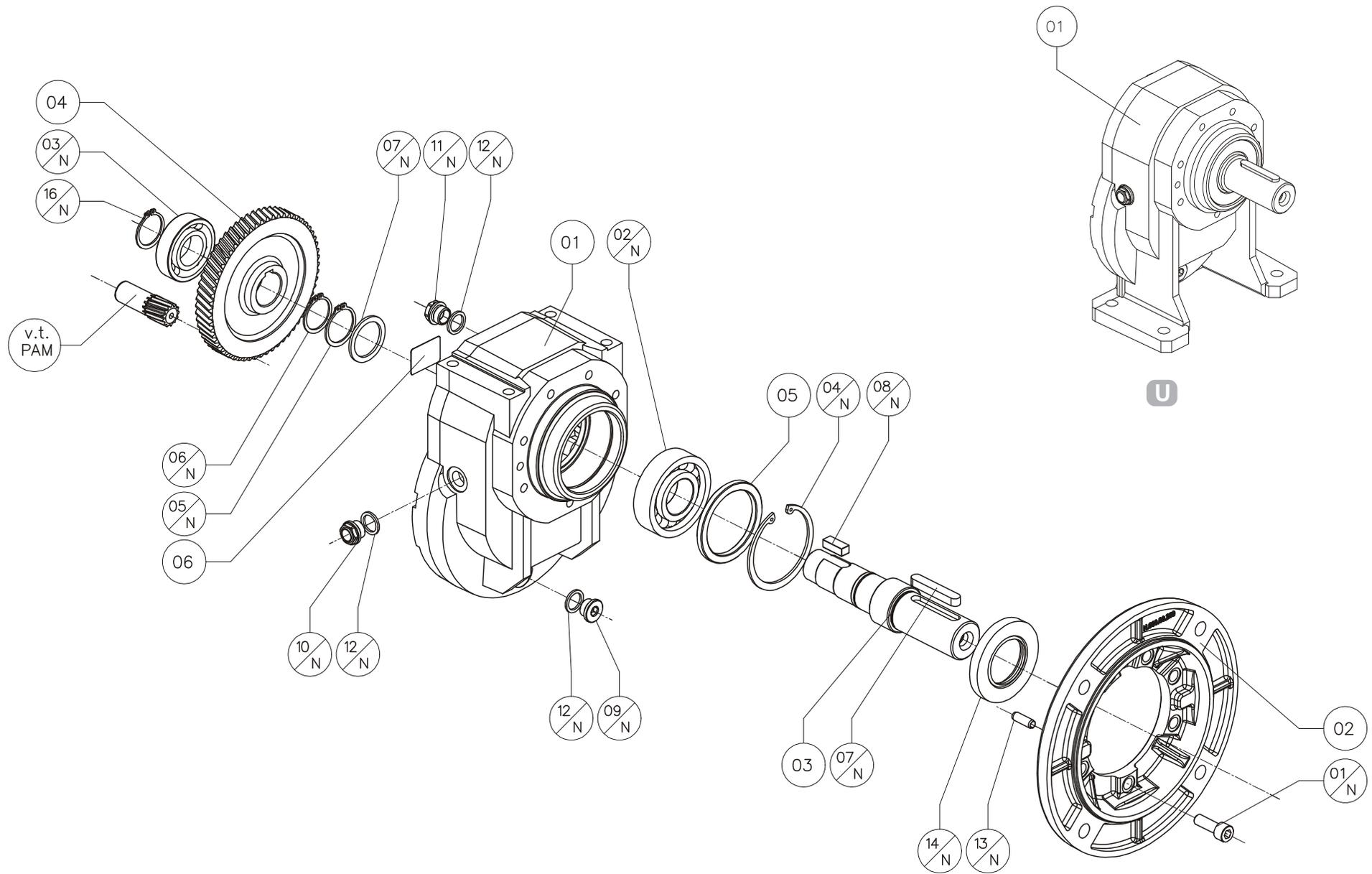
P	T	C	Built	041	051	061	081	101	121
H	005	1	Casing with foot	H.040.08	H.050.08	H.060.08	H.080.08	H.100.08	H.125.08
H	005	2	Output Shaft	H.040.19	H.050.19	H.060.19	H.080.19	H.100.19	H.125.19
H	005	3	Gear	H.030.24	H.050.24	H.060.24	H.080.24	H.100.24	H.125.24
H	005	4	Gear spacer	H.040.41	H.050.41	H.060.41	H.080.41	H.100.41	H.125.41
H	005	5	Plate	9.040.99	9.040.99	9.040.99	9.040.99	9.040.99	9.040.99
H	PAM	-	Pinion (tav.10)						

P	T	C	Commercial	041		051		061		081		101		121	
H	005	01/N	Bearing	6304	1	6305	1	6306	1	6307	1	6308	1	6310	1
H	005	02/N	Bearing	6203	1	6204	1	6206	1	6206	1	6207	1	6208	1
H	005	03/N	Circlip DIN 472	52	1	62	1	72	1	80	1	90	1	110	1
H	005	04/N	Circlip DIN 471	20	1	25	1	30	1	35	1	40	1	50	1
H	005	05/N	Circlip DIN 471	17	1	-	-	30	1	32	1	38	1	45	1
H	005	06/N	Bearin spacer	ADS 28x20x2	1	ADS 35x25x2	1	ADS 42x30x2,5	1	ADS 45x35x2,5	1	ADS 50x40x2,5	1	ADS 62x50x3	1
H	005	07/N	Key DIN 6885	A 6x6x30	1	A 8x7x35	1	A 8x7x45	1	A 10x8x60	1	A 14x9x90	1	A 16x10x90	1
H	005	08/N	Key DIN 6885	B 5x5x12	1	B 6x6x14	1	B 8x7x18	1	B 10x8x25	1	B 10x8x30	1	B 14x9x40	1
H	005	09/N	Closing plug	-	-	-	-	-	-	3/8" gas	1	1/2" gas	1	1/2" gas	1
H	005	10/N	Oil level plug	-	-	-	-	-	-	3/8" gas	1	1/2" gas	1	1/2" gas	1
H	005	11/N	Breather plug	-	-	-	-	-	-	3/8" gas	1	1/2" gas	1	1/2" gas	1
H	005	12/N	Gasket	-	-	-	-	-	-	3/8" gas	3	1/2" gas	3	1/2" gas	3
H	005	13/N	Oil Seal DIN 3760	AS 25-52-7	1	AS 30-62-7	1	AS 40-72-10	1	AS 45-80-10	1	AS 55-90-10	1	AS 60-110-10	1
H	005	14/N	Circlip DIN 471	15	1	20	1	28	1	-	-	-	-	-	-



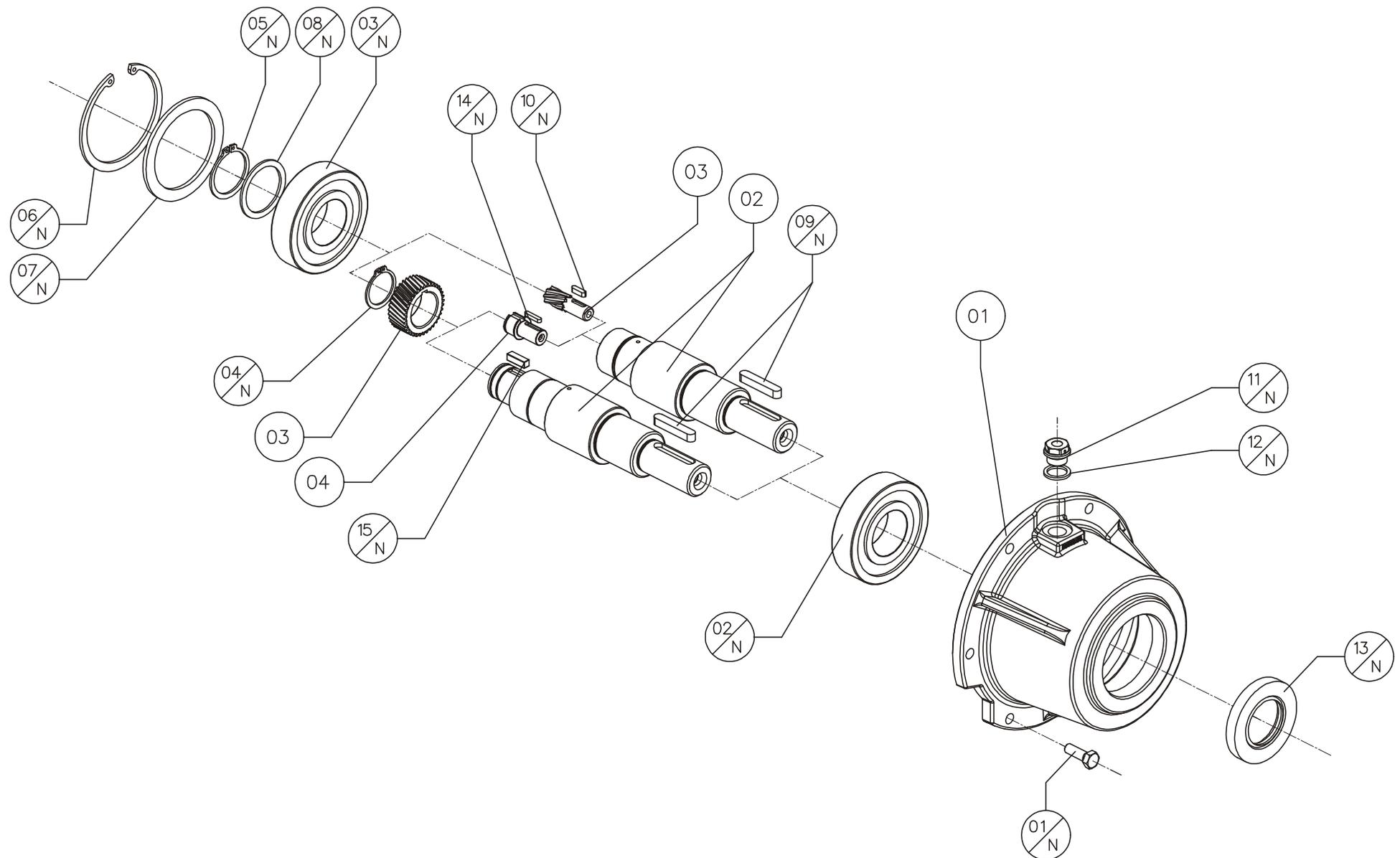
P	T	C	Built	041	051	061	081	101	121
H	006	1	Casing mono	H.040.09	H.050.09	H.060.09	H.080.09	H.100.09	H.125.09
H	006	2	Foot	H.040.10 / 10.1	H.050.10	H.060.10	H.080.10	H.100.10	H.125.10
H	006	3	Output Shaft	H.040.19	H.050.19	H.060.19	H.080.19	H.100.19	H.125.19
H	006	4	Gear	H.030.24	H.050.24	H.060.24	H.080.24	H.100.24	H.125.24
H	006	5	Gear spacer	H.040.41	H.050.41	H.060.41	H.080.41	H.100.41	H.125.41
H	006	6	Plate	9.040.99	9.040.99	9.040.99	9.040.99	9.040.99	9.040.99
H	PAM	-	Pinion (tav.10)						

P	T	C	Commercial	041		051		061		081		101		121	
H	006	01/N	Screw DIN 912	M8x12 (DIN7984)	4	M10x20	4	M 10x25	4	M12x35	4	M 16x40	4	M 16x50	4
H	006	02/N	Bearing	6304	1	6305	1	6306	1	6307	1	6308	1	6310	1
H	006	03/N	Bearing	6203	1	6204	1	6206	1	6206	1	6207	1	6208	1
H	006	04/N	Circlip DIN 472	52	1	62	1	72	1	80	1	90	1	110	1
H	006	05/N	Circlip DIN 471	20	1	25	1	30	1	35	1	40	1	50	1
H	006	06/N	Circlip DIN 471	17	1	-	-	30	1	32	1	38	1	45	1
H	006	07/N	Bearing spacer	ADS 28x20x2	1	ADS 35x25x2	1	ADS 42x30x2,5	1	ADS 45x35x2,5	1	ADS 50x40x2,5	1	ADS 62x50x3	1
H	006	08/N	Key DIN 6885	A 6x6x30	1	A 8x7x35	1	A 8x7x45	1	A 10x8x60	1	A 14x9x90	1	A 16x10x90	1
H	006	09/N	Key DIN 6885	B 5x5x12	1	B 6x6x14	1	B 8x7x18	1	B 10x8x25	1	B 10x8x30	1	B 14x9x40	1
H	006	10/N	Closing plug	-	-	-	-	-	-	3/8" gas	1	1/2" gas	1	1/2" gas	1
H	006	11/N	Oil level plug	-	-	-	-	-	-	3/8" gas	1	1/2" gas	1	1/2" gas	1
H	006	12/N	Breather plug	-	-	-	-	-	-	3/8" gas	1	1/2" gas	1	1/2" gas	1
H	006	13/N	Gasket	-	-	-	-	-	-	3/8" gas	3	1/2" gas	3	1/2" gas	3
H	006	14/N	Oil Seal DIN 3760	AS 25-52-7	1	AS 30-62-7	1	AS 40-72-10	1	AS 45-80-10	1	AS 55-90-10	1	AS 60-110-10	1
H	006	15/N	Circlip DIN 471	15	1	20	1	28	1	-	-	-	-	-	-



P	T	C	Built	041	051	061	081	101	121
H	007	1	Casing with flange	H.040.09	H.050.09	H.060.09	H.080.09	H.100.09	H.125.09
H	007	1	Casing universal	H.040.11	H.050.11	H.060.11	H.080.11	H.100.11	H.125.11
H	007	2	Flangia	H.030.06.200	H.030.06.200	H.050.06.250	H.060.06.300	H.060.06.300	H.080.06.350
H	007	2	Flangia	H.030.06.160	H.030.06.160	H.050.06.200	H.060.06.250	H.060.06.250	H.080.06.300
H	007	2	Flangia	H.030.06.140	H.030.06.140	-	-	-	-
H	007	3	Output Shaft	H.040.19	H.050.19	H.060.19	H.080.19	H.100.19	H.120.19
H	007	4	Gear	H.030.24	H.050.24	H.060.24	H.080.24	H.100.24	H.120.24
H	007	5	Gear spacer	H.040.41	H.050.41	H.060.41	H.080.41	H.100.41	H.120.41
H	007	6	Plate	9.040.99	9.040.99	9.040.99	9.040.99	9.040.99	9.040.99
H	PAM	-	Pinion (tav.10)						

P	T	C	Commercial	041		051		061		081		101		121	
H	007	01/N	Screw DIN 912	M8x20	5	M8x20	5	M8x25	5	M10x30	7	M 10x30	7	M 12x35	7
H	007	02/N	Bearing	6304	1	6305	1	6306	1	6307	1	6308	1	6310	1
H	007	03/N	Bearing	6203	1	6204	1	6206	1	6206	1	6207	1	6208	1
H	007	04/N	Circlip DIN 472	52	1	62	1	72	1	80	1	90	1	110	1
H	007	05/N	Circlip DIN 471	20	1	25	1	30	1	35	1	40	1	50	1
H	007	06/N	Circlip DIN 471	17	1	-	-	30	1	32	1	38	1	45	1
H	007	07/N	Bearing spacer	ADS 28x20x2	1	ADS 35x25x2	1	ADS 42x30x2,5	1	ADS 45x35x2,5	1	ADS 50x40x2,5	1	ADS 62x50x3	1
H	007	08/N	Key DIN 6885	A 6x6x30	1	A 8x7x35	1	A 8x7x45	1	A 10x8x60	1	A 14x9x90	1	A 16x10x90	1
H	007	09/N	Key DIN 6885	B 5x5x12	1	B 6x6x14	1	B 8x7x18	1	B 10x8x25	1	B 10x8x30	1	B 14x9x40	1
H	007	10/N	Closing plug	-	-	-	-	-	-	3/8" gas	1	1/2" gas	1	1/2" gas	1
H	007	11/N	Oil level plug	-	-	-	-	-	-	3/8" gas	1	1/2" gas	1	1/2" gas	1
H	007	12/N	Breather plug	-	-	-	-	-	-	3/8" gas	1	1/2" gas	1	1/2" gas	1
H	007	13/N	Gasket	-	-	-	-	-	-	3/8" gas	3	1/2" gas	3	1/2" gas	3
H	007	14/N	Dowel pin DIN 7344	6x16	2	6x16	2	6x16	2	8x24	2	8x24	2	10x30	2
H	007	15/N	Oil Seal DIN 3760	AS 25-52-7	1	AS 30-62-7	1	AS 40-72-10	1	AS 45-80-10	1	AS 55-90-10	1	AS 60-110-10	1
H	007	16/N	Circlip DIN 471	15	1	20	1	28	1	-	-	-	-	-	-



P	T	C	Built	041	051	061	081	101	121
H	008	1	Cover	H.030.03	H.030.03	H.030.03	H.060.03	H.100.03	H.100.03
H	008	2	Input shaft	H.040.15.16	H.030.15.24	H.030.15.24	H.060.15.28	H.100.15.38	H.100.15.38
H	008	3	Pinion	H.030.23	H.050.23	H.060.23	H.080.23	H.100.23	H.125.23
H	008	4	Pinion hub	H.030.22	H.050.22	H.060.22	H.080.22	-	-

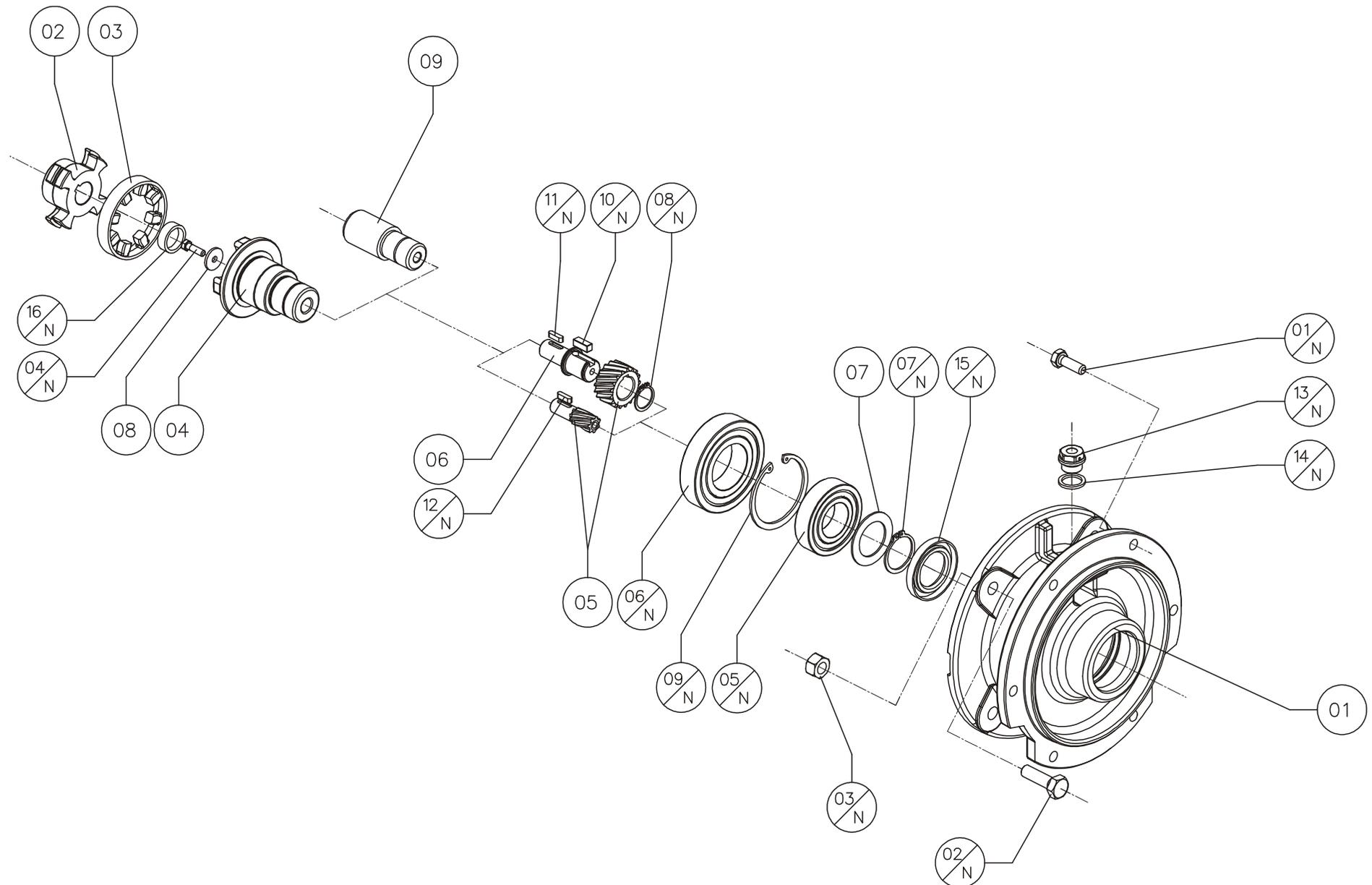
P	T	C	Commercial	041		051		061		081		101		121	
H	008	1/N	Screw DIN 931	M8x20	4	M8x20	4	M8x20	4	M8x25	6	M12x35	6	M12x35	6
H	008	2/N	Bearing	6206	1	6206	1	6206	1	6308	1	6309	1	6309	1
H	008	3/N	Bearing	6206	1	6206	1	6206	1	6308	1	6310	1	6310	1
H	008	4/N	Circlip DIN 471	16	1	19	1	24	1	30	1	40	1	40	1
H	008	5/N	Circlip DIN 471	-	-	-	-	-	-	-	-	-	-	-	-
H	008	6/N	Circlip DIN 472	62	1	62	1	62	1	90	1	110	1	110	1
H	008	7/N	Bearing spacer	ADS 62x50x2	1	ADS 62x50x2	1	ADS 62x50x2	1	ADS 90-70-3,5	1	ADS 110x90x2	1	ADS 110x90x2	1
H	008	8/N	Bearing spacer	-	-	-	-	-	-	-	-	-	-	-	-
H	008	9/N	Key DIN 6885	A 5x5x30	1	A 8x7x35	1	A 8x7x35	1	A 8x7x45	1	A 10x8x60	1	A 10x8x60	1
H	008	11/N	Breather plug	-	-	-	-	-	-	3/8" gas	1	1/2" gas	1	1/2" gas	1
H	008	12/N	Gasket	-	-	-	-	-	-	3/8" gas	1	1/2" gas	1	1/2" gas	1
H	008	13/N	Oil Seal DIN 3760	ADT A 30-52-7	1	ADT A 30-52-7	1	ADT A 30-52-7	1	ADT AS 40-72-10	1	ADT AS 45-80-10	1	ADT AS 45-80-10	1
H	008	14/N	Key DIN 6885	-	-	-	-	-	-	-	-	A 8x7x40	1	A 8x7x40	1
H	008	15/N	Key DIN 6885	B 5x5x12	1	B 6x6x16	1	B 8x7x16	1	B 8x7x18	1	B 12x8x25	1	B 12x8x25	1

P	T	C	Built	032	042	052	062	082	102	122	142
H	008	1	Cover	H.030.03	H.030.03	H.030.03	H.060.03	H.060.03	H.100.03	H.100.03	H.140.03
H	008	2	Input shaft	H.030.15.24	H.030.15.24	H.030.15.24	H.060.15.28	H.060.15.28	H.100.15.38	H.100.15.38	H.140.15.42
H	008	3	Pinion	H.030.23	H.030.23	H.050.23	H.060.23	H.080.23	H.100.23	H.125.23	H.140.23
H	008	4	Pinion hub	H.030.22	H.030.22	H.050.22	H.060.22	H.080.22	-	-	-

P	T	C	Commercial	032		042		052		062		082		102		122		142		
H	008	1/N	Screw DIN 931	M8x20	4	M8x20	4	M8x20	4	M8x25	6	M8x25	6	M12x35	6	M12x35	6	M12x35	8	
H	008	2/N	Bearing	6206	1	6206	1	6206	1	6308	1	6308	1	6309	1	6309	1	NJ310EC	1	
H	008	3/N	Bearing	6206	1	6206	1	6206	1	6308	1	6308	1	6310	1	6310	1	6312	1	
H	008	4/N	Circlip DIN 471	16	1	16	1	19	1	24	1	30	1	40	1	40	1	40	1	
H	008	5/N	Circlip DIN 471	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	1	
H	008	6/N	Circlip DIN 472	62	1	62	1	62	1	90	1	90	1	110	1	110	1	130	1	
H	008	7/N	Bearing spacer	ADS 62x50x2	1	ADS 62x50x2	1	ADS 62x50x2	1	ADS 90-70-3,5	1	ADS 90-70-3,5	1	ADS 110x90x2	1	ADS 110x90x2	1	ADS 130x105x3,5	1	
H	008	8/N	Bearing spacer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ADS 75x60x30	1	
H	008	9/N	Key DIN 6885	A 8x7x35	1	A 8x7x35	1	A 8x7x35	1	A 8x7x45	1	A 8x7x45	1	A 10x8x60	1	A 10x8x60	1	A 12x8x90	1	
H	008	11/N	Breather plug	-	-	-	-	-	-	3/8" gas	1	3/8" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1	
H	008	12/N	Gasket	-	-	-	-	-	-	3/8" gas	1	3/8" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1	
H	008	13/N	Oil Seal DIN 3760	ADT A 30-52-7	1	ADT A 30-52-7	1	ADT A 30-52-7	1	ADT AS 40-72-10	1	ADT AS 40-72-10	1	ADT AS 45-80-10	1	ADT AS 45-80-10	1	ADT A 50-90-10	1	
H	008	14/N	Key DIN 6885	-	-	-	-	-	-	-	-	-	A 8x7x40	1	A 8x7x40	1	A 8x7x40	1	A 8x7x40	1
H	008	15/N	Key DIN 6885	B 5x5x12	1	B 5x5x12	1	B 6x6x16	1	B 8x7x16	1	B 8x7x18	1	B 12x8x25	1	B 12x8x25	1	B 12x8x30	1	

P	T	C	Built	033	043	053	063	083	103	123	143
H	008	1	Cover	H.030.03	H.030.03	H.030.03	H.060.03	H.060.03	H.100.03	H.100.03	H.140.03
H	008	2	Input shaft	H.030.15.24	H.030.15.24	H.030.15.24	H.060.15.28	H.060.15.28	H.100.15.38	H.100.15.38	H.140.15.42
H	008	3	Pinion	0.030.23	0.030.23	0.030.23	H.050.23	H.060.23	H.080.23	H.100.23	H.125.23
H	008	4	Pinion hub	0.030.22	0.030.22	0.030.22	H.050.22	H.060.22	H.080.22	H.100.22	H.100.22

P	T	C	Commercial	033		043		053		063		083		103		123		143	
H	008	1/N	Screw DIN 931	M8x20	4	M8x20	4	M8x20	4	M8x25	6	M8x25	6	M12x35	6	M12x35	6	M12x35	8
H	008	2/N	Bearing	6206	1	6206	1	6206	1	6308	1	6308	1	6309	1	6309	1	NJ310EC	1
H	008	3/N	Bearing	6206	1	6206	1	6206	1	6308	1	6308	1	6310	1	6310	1	6312	1
H	008	4/N	Circlip DIN 471	-	-	-	-	-	-	19	1	24	1	30	1	40	1	40	1
H	008	5/N	Circlip DIN 471	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	1
H	008	6/N	Circlip DIN 472	62	1	62	1	62	1	90	1	90	1	110	1	110	1	130	1
H	008	7/N	Bearing spacer	ADS 62x50x2	1	ADS 62x50x2	1	ADS 62x50x2	1	ADS 90-70-3,5	1	ADS 90-70-3,5	1	ADS 110x90x2	1	ADS 110x90x2	1	ADS 130x105x3,5	1
H	008	8/N	Bearing spacer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ADS 75x60x30	1
H	008	9/N	Key DIN 6885	A 8x7x35	1	A 8x7x35	1	A 8x7x35	1	A 8x7x45	1	A 8x7x45	1	A 10x8x60	1	A 10x8x60	1	A 12x8x90	1
H	008	10/N	Key DIN 6885	-	-	-	-	-	-	-	-	-	-	A 8x7x40	1	A 8x7x40	1	A 8x7x40	1
H	008	11/N	Breather plug	-	-	-	-	-	-	3/8" gas	1	3/8" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1
H	008	12/N	Gasket	-	-	-	-	-	-	3/8" gas	1	3/8" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1
H	008	13/N	Oil Seal DIN 3760	ADT A 30-52-7	1	ADT A 30-52-7	1	ADT A 30-52-7	1	ADT AS 40-72-10	1	ADT AS 40-72-10	1	ADT AS 45-80-10	1	ADT AS 45-80-10	1	ADT A 50-90-10	1
H	008	14/N	Key DIN 6885	-	-	-	-	-	-	-	-	-	-	A 8x7x40	1	A 8x7x40	1	A 8x7x40	1
H	008	15/N	Key DIN 6885	-	-	-	-	-	-	B 6x6x16	1	B 8x7x16	1	B 8x7x18	1	B 12x8x25	1	B 12x8x25	1



H030-H040-H041-H050-H051-H061	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225	
	H 009	2/N	Screw DIN 931	M8x30	4	M8x30	4	M10x35	4	M10x35	4	M12x45	4	M12x45	4	
	H 009	3/N	Nut DIN 934/6	M8x8	4	M8x8	4	M10x10	4	M10x10	4	M12x12	4	M12x12	4	
	H 009	5/N	Bearing	6204 2Z	1	6205 2Z	1	6206 2Z	1	6206 2Z	1	6207 2Z	1	6207 2Z	1	
	H 009	6/N	Bearing	-	1	6006 2Z	1	6008 2Z	1	6008 2Z	1	6010 2Z	1	6010 2Z	1	
	H 009	7/N	Circlip DIN 471		20	1	25	1	30	1	30	1	35	1	35	1
	H 009	9/N	Circlip DIN 472		47	1	52	1	62	1	62	1	72	1	72	1
	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225	
	H 009	1	Flange		H.030.04		H.030.04		H.030.04		H.030.04		H.030.04			
	H 009	2	Motor half coupling				H.060.12		H.060.12		H.060.12		H.060.12			
H 009	3	Flexible joint				H.060.13		H.060.13		H.060.13		H.060.13				
H060-H080-H081	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225	
	H 009	2/N	Screw DIN 931		M8x30	4	M10x35	4	M10x35	4	M12x45	4	M12x45	4		
	H 009	3/N	Nut DIN 934/6		M8x8	4	M10x10	4	M10x10	4	M12x12	4	M12x12	4	M16x16	4
	H 009	5/N	Bearing		6205 2Z	1	6206 2Z	1	6206 2Z	1	6207 2Z	1	6208 2Z	1	6310 2Z	1
	H 009	6/N	Bearing		6006 2Z	1	6208 2Z	1	6208 2Z	1	6210 2Z	1	6210 2Z	1	6015 2Z	1
	H 009	7/N	Circlip DIN 471		25	1	30	1	30	1	35	1	35	1	40	1
	H 009	9/N	Circlip DIN 472		52	1	62	1	62	1	72	1	72	1	80	1
	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225	
	H 009	1	Flange				H.060.04		H.060.04		H.060.04		H.060.04			
	H 009	2	Motor half coupling				H.060.12		H.060.12		H.060.12		H.060.12			
H 009	3	Flexible joint				H.060.13		H.060.13		H.060.13		H.060.13				
H100-H101-H121-H125	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225	
	H 009	2/N	Screw DIN 931					M10x35	4	M12x45	4	M12x45	4	M12x50	4	
	H 009	3/N	Nut DIN 934/6					M10x10	4	M12x12	4	M12x12	4	M16x16	4	
	H 009	5/N	Bearing					6206 2Z	1	6207 2Z	1	6207 2Z	1	6208 2Z	1	
	H 009	6/N	Bearing					6208 2Z	1	6210 2Z	1	6210 2Z	1	6212 2Z	1	
	H 009	7/N	Circlip DIN 471					30	1	35	1	35	1	40	1	
	H 009	9/N	Circlip DIN 472					62	1	72	1	72	1	80	1	
	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225	
	H 009	1	Flange						H.100.04		H.100.04		H.100.04		H.100.04	
	H 009	2	Motor half coupling						H.060.12		H.060.12		H.060.12		H.100.12	
H 009	3	Flexible joint						H.060.13		H.060.13		H.060.13		H.100.13		
H140	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225	
	H 009	2/N	Screw DIN 931									M12x50	4	M16x50	4	
	H 009	3/N	Nut DIN 934/6									M12x12	4	M16x16	4	
	H 009	5/N	Bearing									6208 2Z	1	6310 2Z	1	
	H 009	6/N	Bearing									6212 2Z	1	6015 2Z	1	
	H 009	7/N	Circlip DIN 471									40	1	50	1	
	H 009	9/N	Circlip DIN 472									80	1	110	1	
	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225	
	H 009	1	Flange									H.140.04		H.140.04		
	H 009	2	Motor half coupling									H.060.12		H.060.12		
H 009	3	Flexible joint									H.060.13		H.060.13			

032	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225
	H	009	4	Reduction half coupling		H.060.14	H.060.14	H.060.14	H.060.14	H.060.14					
	H	009	5	Pinion 2st.		H.030.23	H.030.23	H.030.23	H.030.23	H.030.23					
	H	009	5	Pinion 2st. key		-	-	-	-	-					
	H	009	6	Pinion hub 2st.		H.030.22	H.030.22	H.030.22	H.030.22	H.030.22					
	H	009	6	Pinion hub 2st. key		-	-	-	-	-					
	H	009	7	Spacer		-	-	-	-	-					
	H	009	8	Ring		-	-	-	-	-					
	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225
	H	009	1/N	Screw DIN 931		M8x20	4	M8x20	4	M8x20	4	M8x20	4	M8x20	4
	H	009	4/N	Screw DIN 931		-	-	-	-	-					
	H	009	8/N	Circlip DIN471		16	1	16	1	16	1	16	1	16	1
	H	009	10/N	Key DIN 6885		B 5x5x12	1	B 5x5x12	1	B 5x5x12	1	B 5x5x12	1	B 5x5x12	1
	H	009	11/N	Key DIN 6885		-	-	-	-	-					
	H	009	12/N	Key DIN 6885		-	-	-	-	-					
	H	009	13/N	Closing plug		-	-	-	-	-					
	H	009	14/N	Gasket		-	-	-	-	-					
	H	009	15/N	Oil Seal DIN 3760		ADT A 25-47-7	1	ADT A 30-52-7	1	ADT A 30-52-7	1	ADT A 35-62-7	1	ADT A 35-62-7	1
	H	009	16/N	Cap		-	-	-	-	-					
033	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225
	H	009	4	Reduction half coupling	-	H.060.14	H.060.14	H.060.14							
	H	009	5	Pinion 2st.	0.030.23	0.030.23	0.030.23	0.030.23							
	H	009	5	Pinion 2st. key	-	-	-	-							
	H	009	6	Pinion hub 2st.	0.030.22	0.030.22	0.030.22	0.030.22							
	H	009	6	Pinion hub 2st. key	-	-	-	-							
	H	009	7	Spacer	-	-	-	-							
	H	009	8	Ring	-	-	-	-							
	H	009	9	Motor sleeve	H.030.16.11	-	-	-							
	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225
	H	009	1/N	Screw DIN 931	M8x20	4	M8x20	4	M8x20	4					
	H	009	4/N	Screw DIN 931	-	-	-	-							
	H	009	8/N	Circlip DIN471	-	-	-	-							
	H	009	10/N	Key DIN 6885	-	-	-	-							
	H	009	11/N	Key DIN 6885	-	-	-	-							
	H	009	12/N	Key DIN 6885	-	-	-	-							
	H	009	13/N	Closing plug	-	-	-	-							
	H	009	14/N	Gasket	-	-	-	-							
	H	009	15/N	Oil Seal DIN 3760	ADT A 20-42-7	1	ADT A 25-47-7	1	ADT A 30-52-7	1					
	H	009	16/N	Cap	-	-	-	-							

041	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225
	H	009	4	Reduction half coupling		H.060.14	H.060.14	H.060.14							
	H	009	5	Pinion 2st.		H.030.23.08	H.030.23	H.030.23							
	H	009	5	Pinion 2st. key		-	-	-							
	H	009	6	Pinion hub 2st.		H.030.22	H.030.22	H.030.22							
	H	009	6	Pinion hub 2st. key		-	-	-							
	H	009	7	Spacer		-	-	-							
	H	009	8	Ring		-	-	-							
	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225
	H	009	1/N	Screw DIN 931		M8x20	4	M8x20	4	M8x20	4				
	H	009	4/N	Screw DIN 931		-	-	-	-	-	-				
	H	009	8/N	Circlip DIN471		16	1	16	1	16	1				
	H	009	10/N	Key DIN 6885		B 5x5x12	1	B 5x5x12	1	B 5x5x12	1				
	H	009	11/N	Key DIN 6885		-	-	-	-	-	-				
	H	009	12/N	Key DIN 6885		-	-	-	-	-	-				
	H	009	13/N	Closing plug		-	-	-	-	-	-				
	H	009	14/N	Gasket		-	-	-	-	-	-				
	H	009	15/N	Oil Seal DIN 3760		ADT A 25-47-7	1	ADT A 30-52-7	1	ADT A 30-52-7	1				
	H	009	16/N	Cap		-	-	-	-	-	-				
042	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225
	H	009	4	Reduction half coupling		H.060.14	H.060.14	H.060.14	H.060.14	H.060.14					
	H	009	5	Pinion 2st.		H.030.23	H.030.23	H.030.23	H.030.23	H.030.23					
	H	009	5	Pinion 2st. key		-	-	-	-	-					
	H	009	6	Pinion hub 2st.		H.030.22	H.030.22	H.030.22	H.030.22	H.030.22					
	H	009	6	Pinion hub 2st. key		-	-	-	-	-					
	H	009	7	Spacer		-	-	-	-	-					
	H	009	8	Ring		-	-	-	-	-					
	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225
	H	009	1/N	Screw DIN 931		M8x20	4	M8x20	4	M8x20	4	M8x20	4		
	H	009	4/N	Screw DIN 931		-	-	-	-	-	-	-	-		
	H	009	8/N	Circlip DIN471		16	1	16	1	16	1	16	1		
	H	009	10/N	Key DIN 6885		B 5x5x12	1	B 5x5x12	1	B 5x5x12	1	B 5x5x12	1		
	H	009	11/N	Key DIN 6885		-	-	-	-	-	-	-	-		
	H	009	12/N	Key DIN 6885		-	-	-	-	-	-	-	-		
	H	009	13/N	Closing plug		-	-	-	-	-	-	-	-		
	H	009	14/N	Gasket		-	-	-	-	-	-	-	-		
	H	009	15/N	Oil Seal DIN 3760		ADT A 25-47-7	1	ADT A 30-52-7	1	ADT A 30-52-7	1	ADT A 35-62-7	1		
	H	009	16/N	Cap		-	-	-	-	-	-	-	-		

043	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225
	H	009	4	Reduction half coupling	-	H.060.14	H.060.14	H.060.14							
	H	009	5	Pinion 2st.	0.030.23	0.030.23	0.030.23	0.030.23							
	H	009	5	Pinion 2st. key	-	-	-	-							
	H	009	6	Pinion hub 2st.	0.030.22	0.030.22	0.030.22	0.030.22							
	H	009	6	Pinion hub 2st. key	-	-	-	-							
	H	009	7	Spacer	-	-	-	-							
	H	009	8	Ring	-	-	-	-							
	H	009	9	Motor sleeve	H.030.16.11	-	-	-							
P	T	C	Commercial		063	071	080	090	100	112	132	160	180	200	225
H	009	1/N	Screw DIN 931		M8x20	4	M8x20	4	M8x20	4					
H	009	4/N	Screw DIN 931		-	-	-	-	-	-					
H	009	8/N	Circlip DIN471		-	-	-	-	-	-					
H	009	10/N	Key DIN 6885		-	-	-	-	-	-					
H	009	11/N	Key DIN 6885		-	-	-	-	-	-					
H	009	12/N	Key DIN 6885		-	-	-	-	-	-					
H	009	13/N	Closing plug		-	-	-	-	-	-					
H	009	14/N	Gasket		-	-	-	-	-	-					
H	009	15/N	Oil Seal DIN 3760		ADT A 20-42-7	1	ADT A 25-47-7	1	ADT A 30-52-7	1	ADT A 30-52-7	1			
H	009	16/N	Cap		-	-	-	-	-	-					

051	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225
	H	009	4	Reduction half coupling		H.060.14	H.060.14	H.060.14	H.060.14	H.060.14					
	H	009	5	Pinion 2st.		H.050.23	H.050.23	H.050.23	H.050.23	H.050.23					
	H	009	5	Pinion 2st. key		-	-	-	-	-					
	H	009	6	Pinion hub 2st.		-	H.050.22	H.050.22	H.050.22	H.050.22					
	H	009	6	Pinion hub 2st. key		-	-	-	-	-					
	H	009	7	Spacer		-	-	-	-	-					
	H	009	8	Ring		-	-	-	-	-					
P	T	C	Commercial		063	071	080	090	100	112	132	160	180	200	225
H	009	1/N	Screw DIN 931			M8x20	4	M8x20	4	M8x20	4	M8x20	4		
H	009	4/N	Screw DIN 931			-	-	-	-	-					
H	009	8/N	Circlip DIN471			-	19	1	19	1	19	1	19	1	
H	009	10/N	Key DIN 6885			-	B 6x6x16	1							
H	009	11/N	Key DIN 6885			-	-	-	-	-					
H	009	12/N	Key DIN 6885			-	-	-	-	-					
H	009	13/N	Closing plug			-	-	-	-	-					
H	009	14/N	Gasket			-	-	-	-	-					
H	009	15/N	Oil Seal DIN 3760			ADT A 25-47-7	1	ADT A 30-52-7	1	ADT A 30-52-7	1	ADT A 35-62-7	1	ADT A 35-62-7	1
H	009	16/N	Cap			-	-	-	-	-					

052	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225
	H	009	4	Reduction half coupling		H.060.14	H.060.14	H.060.14	H.060.14	H.060.14					
	H	009	5	Pinion 2st.		H.050.23	H.050.23	H.050.23	H.050.23	H.050.23					
	H	009	5	Pinion 2st. key		-	-	-	-	-					
	H	009	6	Pinion hub 2st.		-	H.050.22	H.050.22	H.050.22	H.050.22					
	H	009	6	Pinion hub 2st. key		-	-	-	-	-					
	H	009	7	Spacer		-	-	-	-	-					
	H	009	8	Ring		-	-	-	-	-					
	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225
	H	009	1/N	Screw DIN 931		M8x20	4	M8x20	4	M8x20	4	M8x20	4		
	H	009	4/N	Screw DIN 931		-	-	-	-	-					
	H	009	8/N	Circlip DIN471		-	-	19	1	19	1	19	1		
	H	009	10/N	Key DIN 6885		-	-	B 6x6x16	1	B 6x6x16	1	B 6x6x16	1	B 6x6x16	1
	H	009	11/N	Key DIN 6885		-	-	-	-	-	-	-	-	-	-
	H	009	12/N	Key DIN 6885		-	-	-	-	-	-	-	-	-	-
	H	009	13/N	Closing plug		-	-	-	-	-	-	-	-	-	-
	H	009	14/N	Gasket		-	-	-	-	-	-	-	-	-	-
	H	009	15/N	Oil Seal DIN 3760		ADT A 25-47-7	1	ADT A 30-52-7	1	ADT A 30-52-7	1	ADT A 35-62-7	1	ADT A 35-62-7	1
	H	009	16/N	Cap		-	-	-	-	-	-	-	-	-	-
053	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225
	H	009	4	Reduction half coupling	-	H.060.14	H.060.14	H.060.14							
	H	009	5	Pinion 2st.	0.030.23	0.030.23	0.030.23	0.030.23							
	H	009	5	Pinion 2st. key	-	-	-	-							
	H	009	6	Pinion hub 2st.	0.030.22	0.030.22	0.030.22	0.030.22							
	H	009	6	Pinion hub 2st. key	-	-	-	-							
	H	009	7	Spacer	-	-	-	-							
	H	009	8	Ring	-	-	-	-							
	H	009	9	Motor sleeve	H.030.16.11	-	-	-							
	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225
	H	009	1/N	Screw DIN 931	M8x20	4	M8x20	4	M8x20	4					
	H	009	4/N	Screw DIN 931	-	-	-	-							
	H	009	8/N	Circlip DIN471	-	-	-	-							
	H	009	10/N	Key DIN 6885	-	-	-	-							
	H	009	11/N	Key DIN 6885	-	-	-	-							
	H	009	12/N	Key DIN 6885	-	-	-	-							
	H	009	13/N	Closing plug	-	-	-	-							
	H	009	14/N	Gasket	-	-	-	-							
	H	009	15/N	Oil Seal DIN 3760	ADT A 20-42-7	1	ADT A 25-47-7	1	ADT A 30-52-7	1	ADT A 30-52-7	1			
	H	009	16/N	Cap	-	-	-	-							

061	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225
	H	009	4	Reduction half coupling			H.060.14	H.060.14	H.060.14	H.060.14					
	H	009	5	Pinion 2st.			H.060.23	H.060.23	H.060.23	H.060.23					
	H	009	5	Pinion 2st. key			-	-	-	-					
	H	009	6	Pinion hub 2st.			H.060.22	H.060.22	H.060.22	H.060.22					
	H	009	6	Pinion hub 2st. key			-	-	-	-					
	H	009	7	Spacer			-	-	-	-					
	H	009	8	Ring			-	-	-	-					
	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225
	H	009	1/N	Screw DIN 931			M8x20	4	M8x20	4	M8x20	4	M8x20	4	
	H	009	4/N	Screw DIN 931			-	-	-	-	-	-	-	-	
	H	009	8/N	Circlip DIN471			24	1	24	1	24	1	24	1	
	H	009	10/N	Key DIN 6885			B 8x7x16	1	B 8x7x16	1	B 8x7x16	1	B 8x7x16	1	
	H	009	11/N	Key DIN 6885			-	-	-	-	-	-	-	-	
	H	009	12/N	Key DIN 6885			-	-	-	-	-	-	-	-	
	H	009	13/N	Closing plug			-	-	-	-	-	-	-	-	
	H	009	14/N	Gasket			-	-	-	-	-	-	-	-	
	H	009	15/N	Oil Seal DIN 3760			ADT A 30-52-7	1	ADT A 30-52-7	1	ADT A 35-62-7	1	ADT A 35-62-7	1	
	H	009	16/N	Cap			-	-	-	-	-	-	-	-	
062	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225
	H	009	4	Reduction half coupling			H.060.14	H.060.14	H.060.14	H.060.14	H.060.14				
	H	009	5	Pinion 2st.			H.060.23	H.060.23	H.060.23	H.060.23	H.060.23				
	H	009	5	Pinion 2st. key			-	-	-	-	-				
	H	009	6	Pinion hub 2st.			H.060.22	H.060.22	H.060.22	H.060.22	H.060.22				
	H	009	6	Pinion hub 2st. key			-	-	-	-	-				
	H	009	7	Spacer			-	-	-	-	-				
	H	009	8	Ring			-	-	-	-	-				
	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225
	H	009	1/N	Screw DIN 931			M8x25	6	M8x25	6	M8x25	6	M8x25	6	
	H	009	4/N	Screw DIN 931			-	-	-	-	-	-	-	-	
	H	009	8/N	Circlip DIN471			24	1	24	1	24	1	24	1	
	H	009	10/N	Key DIN 6885			B 8x7x16	1	B 8x7x16	1	B 8x7x16	1	B 8x7x16	1	
	H	009	11/N	Key DIN 6885			-	-	-	-	-	-	-	-	
	H	009	12/N	Key DIN 6885			-	-	-	-	-	-	-	-	
	H	009	13/N	Closing plug			3/8" gas	1	3/8" gas	1	3/8" gas	1	3/8" gas	1	
	H	009	14/N	Gasket			3/8" gas	1	3/8" gas	1	3/8" gas	1	3/8" gas	1	
	H	009	15/N	Oil Seal DIN 3760			ADT A 30-52-7	1	ADT A 30-52-7	1	ADT A 35-62-7	1	ADT A 40-72-10	1	
	H	009	16/N	Cap			-	-	-	-	-	-	-	-	

063	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225
H	009	4		Reduction half coupling		H.060.14	H.060.14	H.060.14	H.060.14	H.060.14					
H	009	5		Pinion 2st.		H.050.23	H.050.23	H.050.23	H.050.23	H.050.23					
H	009	5		Pinion 2st. key		-	-	-	-	-					
H	009	6		Pinion hub 2st.		-	H.050.22	H.050.22	H.050.22	H.050.22					
H	009	6		Pinion hub 2st. key		-	-	-	-	-					
H	009	7		Spacer		-	-	-	-	-					
H	009	8		Ring		-	-	-	-	-					
P	T	C	Commercial		063	071	080	090	100	112	132	160	180	200	225
H	009	1/N		Screw DIN 931		M8x25	6	M8x25	6	M8x25	6	M8x25	6		
H	009	4/N		Screw DIN 931		-	-	-	-	-	-	-	-		
H	009	8/N		Circlip DIN471		-	19	1	19	1	19	1	19	1	
H	009	10/N		Key DIN 6885		-	B 6x6x16	1							
H	009	11/N		Key DIN 6885		-	-	-	-	-	-	-	-	-	
H	009	12/N		Key DIN 6885		-	-	-	-	-	-	-	-	-	
H	009	13/N		Closing plug		3/8" gas	1	3/8" gas	1						
H	009	14/N		Gasket		3/8" gas	1	3/8" gas	1						
H	009	15/N		Oil Seal DIN 3760		ADT A 25-47-7	1	ADT A 30-52-7	1	ADT A 30-52-7	1	ADT A 35-62-7	1	ADT A 35-62-7	1
H	009	16/N		Cap		-	-	-	-	-	-	-	-	-	-

081	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225
H	009	4		Reduction half coupling			H.060.14	H.060.14	H.060.14	H.060.14	H.060.14				
H	009	5		Pinion 2st.			H.080.23	H.080.23	H.080.23	H.080.23	H.080.23				
H	009	5		Pinion 2st. key			-	-	-	-	-				
H	009	6		Pinion hub 2st.			-	-	-	-	H.080.22				
H	009	6		Pinion hub 2st. key			-	-	-	-	-				
H	009	7		Spacer			-	-	-	-	-				
H	009	8		Ring			-	-	-	-	-				
P	T	C	Commercial		063	071	080	090	100	112	132	160	180	200	225
H	009	1/N		Screw DIN 931			M8x25	6	M8x25	6	M8x25	6	M8x25	6	
H	009	4/N		Screw DIN 931			-	-	-	-	-	-	-	-	
H	009	8/N		Circlip DIN471			-	-	-	-	30	1			
H	009	10/N		Key DIN 6885			-	-	-	-	B 8x7x18	1			
H	009	11/N		Key DIN 6885			-	-	-	-	-	-			
H	009	12/N		Key DIN 6885			-	-	-	-	-	-			
H	009	13/N		Closing plug			3/8" gas	1	3/8" gas	1	3/8" gas	1	3/8" gas	1	
H	009	14/N		Gasket			3/8" gas	1	3/8" gas	1	3/8" gas	1	3/8" gas	1	
H	009	15/N		Oil Seal DIN 3760			ADT A 30-52-7	1	ADT A 30-52-7	1	ADT A 35-62-7	1	ADT A 40-72-10	1	
H	009	16/N		Cap			-	-	-	-	-	-	-	-	

082	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225	
	H	009	4	Reduction half coupling			H.060.14	H.060.14	H.060.14	H.060.14	H.060.14	H.060.14				
	H	009	5	Pinion 2st.			H.080.23	H.080.23	H.080.23	H.080.23	H.080.23	-				
	H	009	5	Pinion 2st. key			-	-	-	-	-	H.080.23				
	H	009	6	Pinion hub 2st.			-	-	-	-	H.080.22	-				
	H	009	6	Pinion hub 2st. key			-	-	-	-	-	H.080.22				
	H	009	7	Spacer			-	-	-	-	-	ADS 62x50x3				
	H	009	8	Ring			-	-	-	-	-	-				
	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225	
	H	009	1/N	Screw DIN 931			M8x25	6	M8x25	6	M8x25	6	M8x25	6		
	H	009	4/N	Screw DIN 931			-	-	-	-	-	-	-	-		
	H	009	8/N	Circlip DIN471			-	-	-	-	-	30	1	30	1	
	H	009	10/N	Key DIN 6885			-	-	-	-	-	B 8x7x18	1	B 8x7x18	1	
	H	009	11/N	Key DIN 6885			-	-	-	-	-	-	-	A 8x7x40	1	
	H	009	12/N	Key DIN 6885			-	-	-	-	-	-	-	A 8x7x40	1	
	H	009	13/N	Closing plug			3/8" gas	1	3/8" gas	1	3/8" gas	1	3/8" gas	1	3/8" gas	1
	H	009	14/N	Gasket			3/8" gas	1	3/8" gas	1	3/8" gas	1	3/8" gas	1	3/8" gas	1
	H	009	15/N	Oil Seal DIN 3760			ADT A 30-52-7	1	ADT A 30-52-7	1	ADT A 35-62-7	1	ADT A 40-72-10	1	ADT A 50-72-8	1
	H	009	16/N	Cap			-	-	-	-	-	-	-	RCA 40-7	1	
083	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225	
	H	009	4	Reduction half coupling			H.060.14	H.060.14	H.060.14	H.060.14	H.060.14	H.060.14				
	H	009	5	Pinion 2st.			H.060.23	H.060.23	H.060.23	H.060.23	H.060.23	H.060.23				
	H	009	5	Pinion 2st. key			-	-	-	-	-	-				
	H	009	6	Pinion hub 2st.			H.060.22	H.060.22	H.060.22	H.060.22	H.060.22	H.060.22				
	H	009	6	Pinion hub 2st. key			-	-	-	-	-	-				
	H	009	7	Spacer			-	-	-	-	-	-				
	H	009	8	Ring			-	-	-	-	-	-				
	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225	
	H	009	1/N	Screw DIN 931			M8x25	6	M8x25	6	M8x25	6	M8x25	6		
	H	009	4/N	Screw DIN 931			-	-	-	-	-	-	-	-		
	H	009	8/N	Circlip DIN471			24	1	24	1	24	1	24	1		
	H	009	10/N	Key DIN 6885			B 8x7x16	1	B 8x7x16	1	B 8x7x16	1	B 8x7x16	1		
	H	009	11/N	Key DIN 6885			-	-	-	-	-	-	-	-		
	H	009	12/N	Key DIN 6885			-	-	-	-	-	-	-	-		
	H	009	13/N	Closing plug			3/8" gas	1	3/8" gas	1	3/8" gas	1	3/8" gas	1		
	H	009	14/N	Gasket			3/8" gas	1	3/8" gas	1	3/8" gas	1	3/8" gas	1		
	H	009	15/N	Oil Seal DIN 3760			ADT A 30-52-7	1	ADT A 30-52-7	1	ADT A 35-62-7	1	ADT A 40-72-10	1		
	H	009	16/N	Cap			-	-	-	-	-	-	-	-		

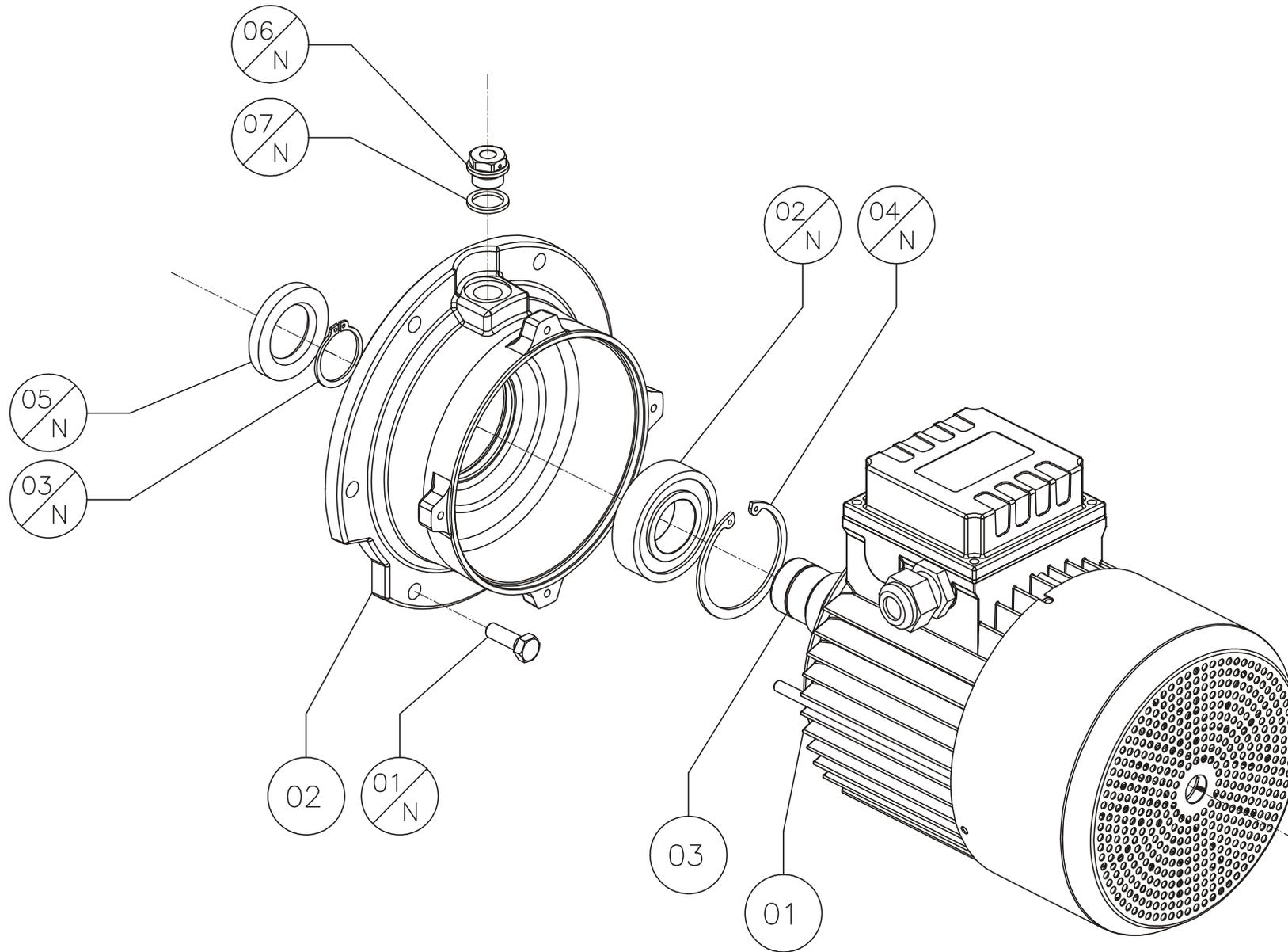
101	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225	
	H	009	4	Reduction half coupling					H.060.14	H.060.14	H.060.14	H.060.14	H.060.14			
	H	009	5	Pinion 2st.					H.100.23	H.100.23	H.100.23	-	-			
	H	009	5	Pinion 2st. key					-	-	-	H.100.23	H.100.23			
	H	009	6	Pinion hub 2st.					-	-	H.100.22	-	-			
	H	009	6	Pinion hub 2st. key					-	-	-	H.100.22	H.100.22			
	H	009	7	Spacer					-	-	-	ADS 62x50x3	ADS 62x50x3			
	H	009	8	Ring					-	-	-	-	-			
	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225	
	H	009	1/N	Screw DIN 931					M12x35	6	M12x35	6	M12x35	6	M12x35	6
	H	009	4/N	Screw DIN 931					-	-	-	-	-			
	H	009	8/N	Circlip DIN471					-	-	40	40	40			
	H	009	10/N	Key DIN 6885					-	-	B 12x8x25	B 12x8x25	B 12x8x25			
	H	009	11/N	Key DIN 6885					-	-	-	A 8x7x40	A 8x7x40			
	H	009	12/N	Key DIN 6885					-	-	-	A 8x7x40	A 8x7x40			
	H	009	13/N	Closing plug					1/2" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1
	H	009	14/N	Gasket					1/2" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1
	H	009	15/N	Oil Seal DIN 3760					ADT A 35-62-7	1	ADT A 35-62-7	1	ADT A 50-72-8	1	ADT A 50-72-8	1
	H	009	16/N	Cap					-	-	-	RCA 40-7	RCA 40-7			
102	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225	
	H	009	4	Reduction half coupling					H.060.14	H.060.14	H.060.14	H.060.14	H.060.14			
	H	009	5	Pinion 2st.					H.100.23	H.100.23	H.100.23	-	-			
	H	009	5	Pinion 2st. key					-	-	-	H.100.23	H.100.23			
	H	009	6	Pinion hub 2st.					-	-	H.100.22	-	-			
	H	009	6	Pinion hub 2st. key					-	-	-	H.100.22	H.100.22			
	H	009	7	Spacer					-	-	-	ADS 62x50x3	ADS 62x50x3			
	H	009	8	Ring					-	-	-	-	-			
	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225	
	H	009	1/N	Screw DIN 931					M12x35	6	M12x35	6	M12x35	6	M12x35	6
	H	009	4/N	Screw DIN 931					-	-	-	-	-			
	H	009	8/N	Circlip DIN471					-	-	40	40	40			
	H	009	10/N	Key DIN 6885					-	-	B 12x8x25	B 12x8x25	B 12x8x25			
	H	009	11/N	Key DIN 6885					-	-	-	A 8x7x40	A 8x7x40			
	H	009	12/N	Key DIN 6885					-	-	-	A 8x7x40	A 8x7x40			
	H	009	13/N	Closing plug					1/2" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1
	H	009	14/N	Gasket					1/2" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1
	H	009	15/N	Oil Seal DIN 3760					ADT A 35-62-7	1	ADT A 35-62-7	1	ADT A 50-72-8	1	ADT A 50-72-8	1
	H	009	16/N	Cap					-	-	-	RCA 40-7	RCA 40-7			

103	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225		
	H	009	4	Reduction half coupling				H.060.14	H.060.14	H.060.14	H.060.14	H.060.14					
	H	009	5	Pinion 2st.				H.080.23	H.080.23	H.080.23	H.080.23	-					
	H	009	5	Pinion 2st. key				-	-	-	-	H.080.23					
	H	009	6	Pinion hub 2st.				-	-	-	H.080.22	-					
	H	009	6	Pinion hub 2st. key				-	-	-	-	H.080.22					
	H	009	7	Spacer				-	-	-	-	ADS 62x50x3					
	H	009	8	Ring				-	-	-	-	-					
P	T	C	Commercial		063	071	080	090	100	112	132	160	180	200	225		
H	009	1/N	Screw DIN 931					M12x35	6	M12x35	6	M12x35	6	M12x35	6		
H	009	4/N	Screw DIN 931					-	-	-	-	-	-	-	-		
H	009	8/N	Circlip DIN471					-	-	-	30	1	30	1			
H	009	10/N	Key DIN 6885					-	-	-	B 8x7x18	1	B 8x7x18	1			
H	009	11/N	Key DIN 6885					-	-	-	-	-	A 8x7x40	1			
H	009	12/N	Key DIN 6885					-	-	-	-	-	A 8x7x40	1			
H	009	13/N	Closing plug					1/2" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1		
H	009	14/N	Gasket					1/2" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1		
H	009	15/N	Oil Seal DIN 3760					ADT A 30-52-7	1	ADT A 35-62-7	1	ADT A 35-62-7	1	ADT A 40-72-10	1	ADT A 50-72-8	1
H	009	16/N	Cap					-	-	-	-	-	RCA 40-7	1			

121	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225			
	H	009	4	Reduction half coupling							H.060.14	H.060.14	H.060.14	H.100.14				
	H	009	5	Pinion 2st.							H.125.23	-	-	-				
	H	009	5	Pinion 2st. key							-	H.125.23	H.125.23	H.125.23				
	H	009	6	Pinion hub 2st.							-	-	-	-				
	H	009	6	Pinion hub 2st. key							-	H.100.22	H.100.22	H.100.22				
	H	009	7	Spacer							-	ADS 62x50x3	ADS 62x50x3	ADS 75x60x3				
	H	009	8	Ring							-	-	-	8.100.34				
P	T	C	Commercial		063	071	080	090	100	112	132	160	180	200	225			
H	009	1/N	Screw DIN 931								M12x35	6	M12x35	6	M12x35	6		
H	009	4/N	Screw DIN 931								-	-	-	-	M12x25	1		
H	009	8/N	Circlip DIN471								-	40	1	40	1	40	1	
H	009	10/N	Key DIN 6885								-	B 12x8x25	1	B 12x8x25	1	B 12x8x25	1	
H	009	11/N	Key DIN 6885								-	A 8x7x40	1	A 8x7x40	1	A 8x7x40	1	
H	009	12/N	Key DIN 6885								-	A 8x7x40	1	A 8x7x40	1	A 8x7x40	1	
H	009	13/N	Closing plug								1/2" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1
H	009	14/N	Gasket								1/2" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1
H	009	15/N	Oil Seal DIN 3760								ADT A 40-72-10	1	ADT A 50-72-8	1	ADT A 50-72-8	1	ADT A 60-85-10	1
H	009	16/N	Cap								-	-	RCA 40-7	1	RCA 40-7	1	RCA 40-7	1

122	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225			
	H	009	4	Reduction half coupling							H.060.14	H.060.14	H.060.14	H.100.14				
	H	009	5	Pinion 2st.							H.125.23	-	-	-				
	H	009	5	Pinion 2st. key							-	H.125.23	H.125.23	H.125.23				
	H	009	6	Pinion hub 2st.							-	-	-	-				
	H	009	6	Pinion hub 2st. key							-	H.100.22	H.100.22	H.100.22				
	H	009	7	Spacer							-	ADS 62x50x3	ADS 62x50x3	ADS 75x60x3				
	H	009	8	Ring							-	-	-	8.100.34				
P	T	C	Commercial		063	071	080	090	100	112	132	160	180	200	225			
H	009	1/N	Screw DIN 931								M12x35	6	M12x35	6	M12x35	6		
H	009	4/N	Screw DIN 931								-	-	-	-	M12x25	1		
H	009	8/N	Circlip DIN471								-	40	40	40	40	1		
H	009	10/N	Key DIN 6885								-	B 12x8x25	1	B 12x8x25	1	B 12x8x25	1	
H	009	11/N	Key DIN 6885								-	A 8x7x40	1	A 8x7x40	1	A 8x7x40	1	
H	009	12/N	Key DIN 6885								-	A 8x7x40	1	A 8x7x40	1	A 8x7x40	1	
H	009	13/N	Closing plug								1/2" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1
H	009	14/N	Gasket								1/2" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1
H	009	15/N	Oil Seal DIN 3760								ADT A 40-72-10	1	ADT A 50-72-8	1	ADT A 50-72-8	1	ADT A 60-85-10	1
H	009	16/N	Cap								-	-	RCA 40-7	1	RCA 40-7	1	RCA 40-7	1
123	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225			
	H	009	4	Reduction half coupling					H.060.14	H.060.14	H.060.14	H.060.14	H.060.14	H.100.14				
	H	009	5	Pinion 2st.					H.100.23	H.100.23	H.100.23	-	-	-				
	H	009	5	Pinion 2st. key					-	-	-	H.100.23	H.100.23	H.100.23				
	H	009	6	Pinion hub 2st.					-	-	H.100.22	-	-	-				
	H	009	6	Pinion hub 2st. key					-	-	-	H.100.22	H.100.22	H.100.22				
	H	009	7	Spacer					-	-	-	ADS 62x50x3	ADS 62x50x3	ADS 75x60x3				
	H	009	8	Ring					-	-	-	-	-	8.100.34				
P	T	C	Commercial		063	071	080	090	100	112	132	160	180	200	225			
H	009	1/N	Screw DIN 931						M12x35	6	M12x35	6	M12x35	6	M12x35	6		
H	009	4/N	Screw DIN 931						-	-	-	-	-	-	M12x25	1		
H	009	8/N	Circlip DIN471						-	-	40	40	40	40	40	1		
H	009	10/N	Key DIN 6885						-	-	B 12x8x25	1	B 12x8x25	1	B 12x8x25	1		
H	009	11/N	Key DIN 6885						-	-	-	A 8x7x40	1	A 8x7x40	1	A 8x7x40	1	
H	009	12/N	Key DIN 6885						-	-	-	A 8x7x40	1	A 8x7x40	1	A 8x7x40	1	
H	009	13/N	Closing plug						1/2" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1		
H	009	14/N	Gasket						1/2" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1		
H	009	15/N	Oil Seal DIN 3760						ADT A 35-62-7	1	ADT A 35-62-7	1	ADT A 40-72-10	1	ADT A 50-72-8	1	ADT A 60-85-10	1
H	009	16/N	Cap						-	-	-	-	RCA 40-7	1	RCA 40-7	1	RCA 40-7	1

142	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225				
	H	009	4	Reduction half coupling								H.060.14	H.060.14	H.100.14	H.100.14.200				
	H	009	5	Pinion 2st.								-	-	-	-				
	H	009	5	Pinion 2st. key								H.140.23	H.140.23	H.140.23	H.140.23				
	H	009	6	Pinion hub 2st.								-	-	-	-				
	H	009	6	Pinion hub 2st. key								H.140.22	H.140.22	H.140.22	H.140.22				
	H	009	7	Spacer								ADS 62x50x3	ADS 62x50x3	ADS 75x60x3	ADS 75x60x3				
	H	009	8	Ring								-	-	8.100.34	8.100.34				
	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225				
	H	009	1/N	Screw DIN 931								M12x35	8	M12x35	8	M12x35	8	M12x35	8
	H	009	4/N	Screw DIN 931								-	-	M12x25	1	M12x25	1	M12x25	1
	H	009	8/N	Circlip DIN471								40	1	40	1	40	1	40	1
	H	009	10/N	Key DIN 6885								B 12x8x30	1	B 12x8x30	1	B 12x8x30	1	B 12x8x30	1
	H	009	11/N	Key DIN 6885								A 8x7x40	1	A 8x7x40	1	A 8x7x40	1	A 8x7x40	1
	H	009	12/N	Key DIN 6885								A 8x7x40	1	A 8x7x40	1	A 8x7x40	1	A 8x7x40	1
	H	009	13/N	Closing plug								1/2" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1
	H	009	14/N	Gasket								1/2" gas	1	1/2" gas	1	1/2" gas	1	1/2" gas	1
	H	009	15/N	Oil Seal DIN 3760								ADT A 50-72-8	1	ADT A 50-72-8	1	ADT A 60-85-10	1	ADT A 60-85-10	1
	H	009	16/N	Cap								RCA 40-7	1	RCA 40-7	1	RCA 40-7	1	RCA 40-7	1
143	P	T	C	Built	063	071	080	090	100	112	132	160	180	200	225				
	H	009	4	Reduction half coupling							H.060.14	H.060.14	H.060.14	H.100.14					
	H	009	5	Pinion 2st.							H.125.23	-	-	-					
	H	009	5	Pinion 2st. key							-	H.125.23	H.125.23	H.125.23					
	H	009	6	Pinion hub 2st.							-	-	-	-					
	H	009	6	Pinion hub 2st. key							-	H.100.22	H.100.22	H.100.22					
	H	009	7	Spacer							-	ADS 62x50x3	ADS 62x50x3	ADS 75x60x3					
	H	009	8	Ring							-	-	-	8.100.34					
	P	T	C	Commercial	063	071	080	090	100	112	132	160	180	200	225				
	H	009	1/N	Screw DIN 931							M12x35	8	M12x35	8	M12x35	8			
	H	009	4/N	Screw DIN 931							-	-	-	M12x25	1				
	H	009	8/N	Circlip DIN471							-	40	1	40	1				
	H	009	10/N	Key DIN 6885							-	B 12x8x25	1	B 12x8x25	1				
	H	009	11/N	Key DIN 6885							-	A 8x7x40	1	A 8x7x40	1				
	H	009	12/N	Key DIN 6885							-	A 8x7x40	1	A 8x7x40	1				
	H	009	13/N	Closing plug							1/2" gas	1	1/2" gas	1					
	H	009	14/N	Gasket							1/2" gas	1	1/2" gas	1					
	H	009	15/N	Oil Seal DIN 3760							ADT A 40-72-10	1	ADT A 50-72-8	1					
	H	009	16/N	Cap							-	RCA 40-7	1	RCA 40-7	1				



063 B11	P	T	C	Built	030		040		050		060		080		100		125		140	
	H	010	01	Casing	3.063.01		3.063.01		3.063.01											
	H	010	02	Flange	3.063.04.030		3.063.04.030		3.063.04.030											
	H	010	03	Shaft	3.063.18.6		3.063.18.6		3.063.18.6											
	P	T	C	Commercial	030		040		050		060		080		100		125		140	
	H	010	1/N	Screw DIN 931	M8x20	4	M8x20	4	M8x20	4										
	H	010	2/N	Bearing	6204 2z	1	6204 2z	1	6204 2z	1										
	H	010	3/N	Circlip DIN 471	20	1	20	1	20	1										
	H	010	4/N	Circlip DIN 472	47	1	47	1	47	1										
	H	010	5/N	Oil Seal DIN 3760	A 20-42-7	1	A 20-42-7	1	A 20-42-7	1										
H	010	6/N	Breather plug	-	-	-	-	-	-											
H	010	7/N	Gasket	-	-	-	-	-	-											

071 B11	P	T	C	Built	041		051		061		081		101		121	
	H	010	01	Casing	3.071.01		3.071.01									
	H	010	02	Flange	3.071.04.030		3.071.04.030									
	H	010	03	Shaft	3.071.18.6		3.071.18.6									
	P	T	C	Commercial	041		051		061		081		101		121	
	H	010	1/N	Screw DIN 931	M8x20	4	M8x20	4								
	H	010	2/N	Bearing	6205 2z	1	6205 2z	1								
	H	010	3/N	Circlip DIN 471	25	1	25	1								
	H	010	4/N	Circlip DIN 472	52	1	52	1								
	H	010	5/N	Oil Seal DIN 3760	A 25-47-7	1	A 25-47-7	1								
H	010	6/N	Breather plug	-	-	-	-									
H	010	7/N	Gasket	-	-	-	-									

071 B11	P	T	C	Built	030		040		050		060		080		100		125		140	
	H	010	01	Casing	3.071.01		3.071.01		3.071.01		3.071.01									
	H	010	02	Flange	3.071.04.030		3.071.04.030		3.071.04.030		3.071.04.060									
	H	010	03	Shaft	3.071.18.6		3.071.18.6		3.071.18.6		3.071.18.6									
	P	T	C	Commercial	030		040		050		060		080		100		125		140	
	H	010	1/N	Screw DIN 931	M8x20	4	M8x20	4	M8x20	4	M8x25	6								
	H	010	2/N	Bearing	6205 2z	1	6205 2z	1	6205 2z	1	6205 2z	1								
	H	010	3/N	Circlip DIN 471	25	1	25	1	25	1	25	1								
	H	010	4/N	Circlip DIN 472	52	1	52	1	52	1	52	1								
	H	010	5/N	Oil Seal DIN 3760	A 25-47-7	1	A 25-47-7	1	A 25-47-7	1	A 25-47-7	1								
H	010	6/N	Breather plug	-	-	-	-	-	-	3/8" gas	1									
H	010	7/N	Gasket	-	-	-	-	-	-	3/8" gas	1									

080 B11	P	T	C	Built	041	051	061	081	101	121	
	H	010	01	Casing	3.080.01	3.080.01	3.080.01	3.080.01			
	H	010	02	Flange	3.080.04.030	3.080.04.030	3.080.04.030	3.080.04.060			
	H	010	03	Shaft	3.080.18.6	3.080.18.6	3.080.18.6	3.080.18.6			
080 B11	P	T	C	Commercial	041	051	061	081	101	121	
	H	010	1/N	Screw DIN 931	M8x20 4	M8x20 4	M8x20 4	M8x25 6			
	H	010	2/N	Bearing	6206 2z 1	6206 2z 1	6206 2z 1	6206 2z 1			
	H	010	3/N	Circlip DIN 471	30 1	30 1	30 1	30 1			
	H	010	4/N	Circlip DIN 472	62 1	62 1	62 1	62 1			
	H	010	5/N	Oil Seal DIN 3760	A 30-52-7 1	A 30-52-7 1	A 30-52-7 1	A 30-52-7 1			
	H	010	6/N	Breather plug	- -	- -	- -	3/8" gas 1			
	H	010	7/N	Gasket	- -	- -	- -	3/8" gas 1			

080 B11	P	T	C	Built	030	040	050	060	080	100	125	140	
	H	010	01	Casing	3.080.01	3.080.01	3.080.01	3.080.01	3.080.01				
	H	010	02	Flange	3.080.04.030	3.080.04.030	3.080.04.030	3.080.04.060	3.080.04.060				
	H	010	03	Shaft	3.080.18.6	3.080.18.6	3.080.18.6	3.080.18.6	3.080.18.6				
080 B11	P	T	C	Commercial	030	040	050	060	080	100	125	140	
	H	010	1/N	Screw DIN 931	M8x20 4	M8x20 4	M8x20 4	M8x25 6	M8x25 6				
	H	010	2/N	Bearing	6206 2z 1								
	H	010	3/N	Circlip DIN 471	30 1	30 1	30 1	30 1	30 1				
	H	010	4/N	Circlip DIN 472	62 1	62 1	62 1	62 1	62 1				
	H	010	5/N	Oil Seal DIN 3760	A 30-52-7 1								
	H	010	6/N	Breather plug	- -	- -	- -	3/8" gas 1	3/8" gas 1				
	H	010	7/N	Gasket	- -	- -	- -	3/8" gas 1	3/8" gas 1				

090S B11	P	T	C	Built	041	051	061	081	101	121	
	H	010	01	Casing	3.090.01	3.090.01	3.090.01	3.090.01			
	H	010	02	Flange	3.090.04.030	3.090.04.030	3.090.04.030	3.090.04.060			
	H	010	03	Shaft	3.090.18.6	3.090.18.6	3.090.18.6	3.090.18.6			
090S B11	P	T	C	Commercial	041	051	061	081	101	121	
	H	010	1/N	Screw DIN 931	M8x20 4	M8x20 4	M8x20 4	M8x25 6			
	H	010	2/N	Bearing	6206 2z 1	6206 2z 1	6206 2z 1	6206 2z 1			
	H	010	3/N	Circlip DIN 471	30 1	30 1	30 1	30 1			
	H	010	4/N	Circlip DIN 472	62 1	62 1	62 1	62 1			
	H	010	5/N	Oil Seal DIN 3760	A 30-52-7 1	A 30-52-7 1	A 30-52-7 1	A 30-52-7 1			
	H	010	6/N	Breather plug	- -	- -	- -	3/8" gas 1			
	H	010	7/N	Gasket	- -	- -	- -	3/8" gas 1			

090S B11	P	T	C	Built	030	040	050	060	080	100	125	140	
	H	010	01	Casing	3.090.01	3.090.01	3.090.01	3.090.01	3.090.01	3.090.01	3.090.01		
	H	010	02	Flange	3.090.04.030	3.090.04.030	3.090.04.030	3.090.04.060	3.090.04.060	3.090.04.100			
	H	010	03	Shaft	3.090.18.6	3.090.18.6	3.090.18.6	3.090.18.6	3.090.18.6	3.090.18.6			
090S B11	P	T	C	Commercial	030	040	050	060	080	100	125	140	
	H	010	1/N	Screw DIN 931	M8x20 4	M8x20 4	M8x20 4	M8x25 6	M8x25 6	M12x35 6			
	H	010	2/N	Bearing	6206 2z 1								
	H	010	3/N	Circlip DIN 471	30 1	30 1	30 1	30 1	30 1	30 1			
	H	010	4/N	Circlip DIN 472	62 1	62 1	62 1	62 1	62 1	62 1			
	H	010	5/N	Oil Seal DIN 3760	A 30-52-7 1								
	H	010	6/N	Breather plug	- -	- -	- -	3/8" gas 1	3/8" gas 1	1/2" gas 1			
	H	010	7/N	Gasket	- -	- -	- -	3/8" gas 1	3/8" gas 1	1/2" gas 1			

090L B11	P	T	C	Built	041	051	061	081	101	121
	H	010	01	Casing	3.091.01	3.091.01	3.091.01	3.091.01		
	H	010	02	Flange	3.090.04.030	3.090.04.030	3.090.04.060	3.090.04.060		
	H	010	03	Shaft	3.091.18.6	3.091.18.6	3.091.18.6	3.091.18.6		
090L B11	P	T	C	Commercial	041	051	061	081	101	121
	H	010	1/N	Screw DIN 931	M8x20 4	M8x20 4	M8x20 4	M8x25 6		
	H	010	2/N	Bearing	6206 2z 1	6206 2z 1	6206 2z 1	6206 2z 1		
	H	010	3/N	Circlip DIN 471	30 1	30 1	30 1	30 1		
	H	010	4/N	Circlip DIN 472	62 1	62 1	62 1	62 1		
	H	010	5/N	Oil Seal DIN 3760	A 30-52-7 1	A 30-52-7 1	A 30-52-7 1	A 30-52-7 1		
	H	010	6/N	Breather plug	- -	- -	- -	3/8" gas 1		
	H	010	7/N	Gasket	- -	- -	- -	3/8" gas 1		

090L B11	P	T	C	Built	030	040	050	060	080	100	125	140	
	H	010	01	Casing	3.091.01	3.091.01	3.091.01	3.091.01	3.091.01	3.091.01	3.091.01		
	H	010	02	Flange	3.090.04.030	3.090.04.030	3.090.04.030	3.090.04.060	3.090.04.060	3.090.04.100			
	H	010	03	Shaft	3.091.18.6	3.091.18.6	3.091.18.6	3.091.18.6	3.091.18.6	3.091.18.6			
090L B11	P	T	C	Commercial	030	040	050	060	080	100	125	140	
	H	010	1/N	Screw DIN 931	M8x20 4	M8x20 4	M8x20 4	M8x25 6	M8x25 6	M12x35 6			
	H	010	2/N	Bearing	6206 2z 1								
	H	010	3/N	Circlip DIN 471	30 1	30 1	30 1	30 1	30 1	30 1			
	H	010	4/N	Circlip DIN 472	62 1	62 1	62 1	62 1	62 1	62 1			
	H	010	5/N	Oil Seal DIN 3760	A 30-52-7 1								
	H	010	6/N	Breather plug	- -	- -	- -	3/8" gas 1	3/8" gas 1	1/2" gas 1			
	H	010	7/N	Gasket	- -	- -	- -	3/8" gas 1	3/8" gas 1	1/2" gas 1			

100 B11	P	T	C	Built	041	051	061	081	101	121
	H	010	01	Casing		3.100.01	3.100.01	3.100.01	3.100.01	
	H	010	02	Flange		3.100.04.030	3.100.04.030	3.100.04.060	3.100.04.100	
	H	010	03	Shaft		3.101.18.6	3.101.18.6	3.100.18.6	3.100.18.6	
100 B11	P	T	C	Commercial	041	051	061	081	101	121
	H	010	1/N	Screw DIN 931		M8x20 4	M8x20 4	M8x25 6	M8x25 6	
	H	010	2/N	Bearing		6207 2z 1	6207 2z 1	6207 2z 1	6207 2z 1	
	H	010	3/N	Circlip DIN 471		35 1	35 1	35 1	35 1	
	H	010	4/N	Circlip DIN 472		72 1	72 1	72 1	72 1	
	H	010	5/N	Oil Seal DIN 3760		A 35-62-7 1	A 35-62-7 1	A 35-62-7 1	A 35-62-7 1	
	H	010	6/N	Breather plug		- -	- -	3/8" gas 1	1/2" gas 1	
	H	010	7/N	Gasket		- -	- -	3/8" gas 1	1/2" gas 1	

100 B11	P	T	C	Built	030	040	050	060	080	100	125	140	
	H	010	01	Casing	3.100.01	3.100.01	3.100.01	3.100.01	3.100.01	3.100.01	3.100.01	3.100.01	
	H	010	02	Flange	3.100.04.030	3.100.04.030	3.100.04.030	3.100.04.060	3.100.04.060	3.100.04.100	3.100.04.100		
	H	010	03	Shaft	3.101.18.6	3.101.18.6	3.101.18.6	3.100.18.6	3.100.18.6	3.100.18.6	3.100.18.6		
100 B11	P	T	C	Commercial	030	040	050	060	080	100	125	140	
	H	010	1/N	Screw DIN 931	M8x20 4	M8x20 4	M8x20 4	M8x25 6	M8x25 6	M12x35 6	M12x35 6	M12x35 6	
	H	010	2/N	Bearing	6207 2z 1	6207 2z 1							
	H	010	3/N	Circlip DIN 471	35 1	35 1	35 1	35 1	35 1	35 1	35 1	35 1	
	H	010	4/N	Circlip DIN 472	72 1	72 1	72 1	72 1	72 1	72 1	72 1	72 1	
	H	010	5/N	Oil Seal DIN 3760	A 35-62-7 1	A 35-62-7 1							
	H	010	6/N	Breather plug	- -	- -	- -	3/8" gas 1	3/8" gas 1	1/2" gas 1	1/2" gas 1	1/2" gas 1	
	H	010	7/N	Gasket	- -	- -	- -	3/8" gas 1	3/8" gas 1	1/2" gas 1	1/2" gas 1	1/2" gas 1	

112 B11	P	T	C	Built	041	051	061	081	101	121
	H	010	01	Casing		3.112.01	3.112.01	3.112.01	3.112.01	
	H	010	02	Flange		3.112.04.030	3.112.04.030	3.112.04.060	3.112.04.100	
	H	010	03	Shaft		3.113.18.6	3.113.18.6	3.112.18.6	3.112.18.6	
112 B11	P	T	C	Commercial	041	051	061	081	101	121
	H	010	1/N	Screw DIN 931		M8x20 4	M8x20 4	M8x25 6	M12x35 6	
	H	010	2/N	Bearing		6207 2z 1	6207 2z 1	6207 2z 1	6207 2z 1	
	H	010	3/N	Circlip DIN 471		35 1	35 1	35 1	35 1	
	H	010	4/N	Circlip DIN 472		72 1	72 1	72 1	72 1	
	H	010	5/N	Oil Seal DIN 3760		A 35-62-7 1	A 35-62-7 1	A 35-62-7 1	A 35-62-7 1	
	H	010	6/N	Breather plug		- -	- -	3/8" gas 1	1/2" gas 1	
	H	010	7/N	Gasket		- -	- -	3/8" gas 1	1/2" gas 0	

112 B11	P	T	C	Built	030	040	050	060	080	100	125	140	
	H	010	01	Casing	3.112.01	3.112.01	3.112.01	3.112.01	3.112.01	3.112.01	3.112.01	3.112.01	
	H	010	02	Flange	3.112.04.030	3.112.04.030	3.112.04.030	3.112.04.060	3.112.04.060	3.112.04.100	3.112.04.100		
	H	010	03	Shaft	3.113.18.6	3.113.18.6	3.113.18.6	3.112.18.6	3.112.18.6	3.112.18.6	3.112.18.6		
P	T	C	Commercial	030	040	050	060	080	100	125	140		
H	010	1/N	Screw DIN 931	M8x20 4	M8x20 4	M8x20 4	M8x25 6	M8x25 6	M12x35 6	M12x35 6			
H	010	2/N	Bearing	6207 2z 1	6207 2z 1	6207 2z 1	6207 2z 1	6207 2z 1	6207 2z 1	6207 2z 1			
H	010	3/N	Circlip DIN 471	35 1	35 1	35 1	35 1	35 1	35 1	35 1			
H	010	4/N	Circlip DIN 472	72 1	72 1	72 1	72 1	72 1	72 1	72 1			
H	010	5/N	Oil Seal DIN 3760	A 35-62-7 1	A 35-62-7 1	A 35-62-7 1	A 35-62-7 1	A 35-62-7 1	A 35-62-7 1	A 35-62-7 1			
H	010	6/N	Breather plug	- -	- -	- -	3/8" gas 1	3/8" gas 1	1/2" gas 1	1/2" gas 1			
H	010	7/N	Gasket	- -	- -	- -	3/8" gas 1	3/8" gas 1	1/2" gas 1	1/2" gas 1			

132M B11	P	T	C	Built	041	051	061	081	101	121	
	H	010	01	Casing				3.132.01	3.132.01	3.132.01	
	H	010	02	Flange				3.132.04.060	3.132.04.100	3.132.04.100	
	H	010	03	Shaft				3.132.18.6	3.132.18.6	3.132.18.6	
P	T	C	Commercial	041	051	061	081	101	121		
H	010	1/N	Screw DIN 931				M8x25 6	M12x35 6	M12x35 6		
H	010	2/N	Bearing				6308 2z 1	6308 2z 1	6308 2z 1		
H	010	3/N	Circlip DIN 471				40 1	40 1	40 1		
H	010	4/N	Circlip DIN 472				90 1	90 1	90 1		
H	010	5/N	Oil Seal DIN 3760				A 40-72-10 1	A 40-72-10 1	A 40-72-10 1		
H	010	6/N	Breather plug				3/8" gas 1	1/2" gas 1	1/2" gas 1		
H	010	7/N	Gasket				3/8" gas 1	1/2" gas 1	1/2" gas 1		

132M B11	P	T	C	Built	030	040	050	060	080	100	125	140
	H	010	01	Casing				3.132.01	3.132.01	3.132.01	3.132.01	
	H	010	02	Flange				3.132.04.060	3.132.04.060	3.132.04.100	3.132.04.100	
	H	010	03	Shaft				3.132.18.6	3.132.18.6	3.132.18.6	3.132.18.6	
P	T	C	Commercial	030	040	050	060	080	100	125	140	
H	010	1/N	Screw DIN 931				M8x25 6	M8x25 6	M12x35 6	M12x35 6		
H	010	2/N	Bearing				6308 2z 1	6308 2z 1	6308 2z 1	6308 2z 1		
H	010	3/N	Circlip DIN 471				40 1	40 1	40 1	40 1		
H	010	4/N	Circlip DIN 472				90 1	90 1	90 1	90 1		
H	010	5/N	Oil Seal DIN 3760				A 40-72-10 1	A 40-72-10 1	A 40-72-10 1	A 40-72-10 1		
H	010	6/N	Breather plug				3/8" gas 1	3/8" gas 1	1/2" gas 1	1/2" gas 1		
H	010	7/N	Gasket				3/8" gas 1	3/8" gas 1	1/2" gas 1	1/2" gas 1		

132L B11	P	T	C	Built	041	051	061	081	101	121
	H	010	01	Casing					3.132.01	3.132.01
	H	010	02	Flange					3.132.04.100	3.132.04.100
	H	010	03	Shaft					3.133.18.6	3.133.18.6
P	T	C	Commercial	041	051	061	081	101	121	
H	010	1/N	Screw DIN 931					M12x35 6	M12x35 6	
H	010	2/N	Bearing					6308 2z 1	6308 2z 1	
H	010	3/N	Circlip DIN 471					40 1	40 1	
H	010	4/N	Circlip DIN 472					90 1	90 1	
H	010	5/N	Oil Seal DIN 3760					A 40-72-10 1	A 40-72-10 1	
H	010	6/N	Breather plug					1/2" gas 1	1/2" gas 1	
H	010	7/N	Gasket					1/2" gas 1	1/2" gas 1	

132L B11	P	T	C	Built	030	040	050	060	080	100	125	140	
	H	010	01	Casing				3.132.01	3.132.01	3.132.01	3.132.01		
	H	010	02	Flange				3.132.04.060	3.132.04.060	3.132.04.100	3.132.04.100		
	H	010	03	Shaft				3.133.18.6	3.133.18.6	3.133.18.6	3.133.18.6		
P	T	C	Commercial	030	040	050	060	080	100	125	140		
H	010	1/N	Screw DIN 931				M8x25 6	M8x25 6	M12x35 6	M12x35 6			
H	010	2/N	Bearing				6308 2z 1	6308 2z 1	6308 2z 1	6308 2z 1			
H	010	3/N	Circlip DIN 471				40 1	40 1	40 1	40 1			
H	010	4/N	Circlip DIN 472				90 1	90 1	90 1	90 1			
H	010	5/N	Oil Seal DIN 3760				A 40-72-10 1	A 40-72-10 1	A 40-72-10 1	A 40-72-10 1			
H	010	6/N	Breather plug				3/8" gas 1	3/8" gas 1	1/2" gas 1	1/2" gas 1			
H	010	7/N	Gasket				3/8" gas 1	3/8" gas 1	1/2" gas 1	1/2" gas 1			



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