

FLUID COUPLINGS FLUDEX SERIES



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FLUDEX
FLENDER

GENERAL



Coupling suitable for use in potentially explosive atmospheres.

Complies with the current ATEX Directive for:

CE II 2G Ex h IIB T3 Gb X

II 2D Ex h IIIC T160°C Db X

I M2 Ex h Mb X

FLUDEX couplings marked with Ex are constructed with fusible safety plugs 110 °C.

Benefits

FLUDEX couplings are hydrodynamic fluid couplings which operate on the Föttinger principle. The coupling parts on the input and output sides are not mechanically connected to each other. Output is transmitted via the oil filling which rotates in the coupling and is conducted over radially arranged blades.

FLUDEX couplings limit starting and maximum torque in the drive train and, through the property of rotational slip, serve as an aid to starting the motor, as overload protection in the event of fault and for isolating torsional vibration.

When large masses are started up, the drive train is accelerated only at the torque determined by the coupling characteristic. The starting operation is spread over time, the driven machine started softly and smoothly.

In the case of special operating conditions, such as overload or blocking of the driven machine, the FLUDEX coupling limits the maximum torque load and prevents the inert effect of the rotating motor mass on the drive train. The coupling then acts as a load-holding safety clutch until the drive is shut off by the motor control or coupling monitoring system.

The FLUDEX coupling further acts as a means of decoupling during torsional vibration excitation. Torsional vibration excitation with a frequency of > 5 Hz is virtually absorbed by the coupling.

To compensate for shaft misalignment, the FLUDEX coupling is combined with a displacement coupling e.g. of the N-EUPEX type.

All FLUDEX couplings are designed with radial unset blades and are therefore suitable for rotation in both directions and reversing operation. They can be fitted horizontally, at an angle or vertically. In the case of FLUDEX couplings with a delay chamber it must be ensured, when fitting at an angle or vertically, that the delay chamber is below the working chamber.

Application

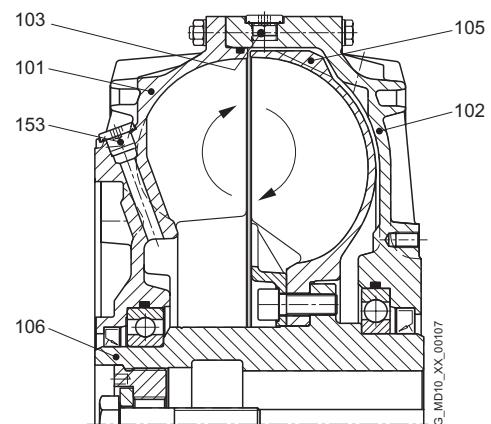
FLUDEX couplings are used in drives for conveyor systems such as belt conveyors, bucket elevators and chain conveyors. In heavy industry FLUDEX couplings are used for applications such as blade wheel drives, crushers, roller presses, mixers, large ventilators, boiler feed pumps, large compressors, centrifuges and auxiliary drives for mills.

Further applications are, for example, pump drives, PTO generator drives, wind power systems and door and gate drives.

In drives with diesel engines, FLUDEX couplings are used on driven machines with a high mass moment of inertia.

Design and configurations

FLUDEX couplings are constructed of just a few, robust components. Internal components include the hollow shaft or solid shaft (106), to which the blade wheel (105) is connected. The outer housing comprises the cover (102) and the blade wheel housing (101). The joint is constructed as a bolted flange joint and sealed with an O ring. The outer housing and the shaft or hollow shaft have double bearing support and are sealed off to the outside with radial shaft seals. The coupling is provided with two filler plugs (153) with integral overflow protection and with one or two fusible safety plugs (103) in the coupling housing for protection against overheating. The fusible safety plug or a screw plug fitted in the same position also serves as a fluid drain plug and with the aid of a scale marking on the housing can be used as a level indicator.



Materials

- Blade wheel and housing:
Cast aluminum AlSi10Mg or AlSi9Mg
- Shaft and hollow shaft:
Steel with a yield point higher than 400 N/mm²
- Static seals and radial shaft seals:
Perbunan NBR or Viton FPM
- Add-on parts:
Grey cast iron EN-GJL-250, spheroidal graphite cast iron EN-GJS-400 or steel

Fusible safety plugs

If a FLUDEX coupling is operated with an impermissibly high slip for a prolonged period, the oil filling and the coupling housing will overheat. Fusible safety plugs which release the oil filling into the environment upon reaching a preset temperature are therefore fitted in each coupling housing. These protect the coupling from irreparable damage through overheating or overpressure and disconnect the drive motor from the driven machine.

GENERAL

Thermal equipment

Equipment	Suitability for coupling continuous operating temperatures	Fusible safety plug	Sealing materials
Standard	up to 85 °C	110 °C	NBR
			FPM
	up to 85 °C	140 °C	NBR
ATEX	up to 110 °C	160 °C	FPM
			NBR
With thermal switch ¹⁾	up to 85 °C	110 °C ex	FPM
			NBR
With transmitter ¹⁾	up to 85 °C	140 °C + thermal switch 110 °C	FPM
	up to 110 °C	160 °C + thermal switch 140 °C	FPM
With transmitter ¹⁾	up to 85 °C	160 °C + EOC transmitter (125 °C)	NBR
	up to 110 °C		FPM

Thermal switching equipment

By adding thermal switching equipment leakage and loss of the hydraulic fluid as well as a risk to and contamination of the environment in the event that the coupling overheats can be avoided.

The thermal switching equipment does not work if a machine side is blocked and the coupling housing is connected to this side. If the coupling is stationary, the switching pin cannot actuate the switching equipment.

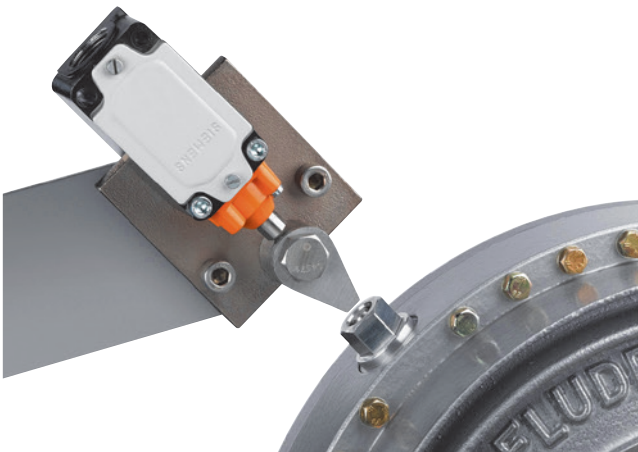
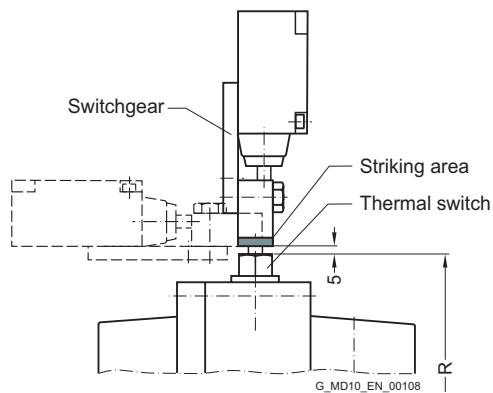
The thermal switching equipment comprises the thermal switch and the switchgear.

The switchgear comprises a limit switch with a make-and-break contact and a swiveling cam. Limit switch and cam are mounted on a common base plate. The thermal switch is screwed into the housing in place of a screw plug. The fusible safety plug (with a higher response temperature) remains in the coupling for additional safety.

If the set temperature is exceeded, the switching pin is released from the fusible element, emerges 10 mm from the housing and actuates the switchgear while the coupling is rotating. The switchgear can cut out the drive motor and/or trigger an optical or acoustic alarm signal. The housing of the coupling remains closed and no operating fluid will escape.

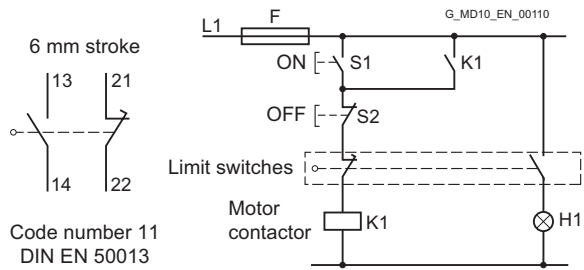
Continuous operating temperature	Thermal switch	Fusible safety plug
≤ 85 °C	110 °C	140 °C
> 85 °C ... 110 °C	140 °C	160 °C

¹⁾ Not available for size 222.



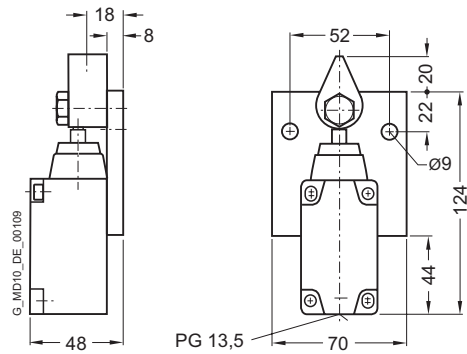
	Coupling size												
	297	342	370	395	425	450	490	516	565	590	655	755	887
Perm. speed in rpm	2500	2240	2100	2000	1900	1800	1650	1600	1500	1450	1250	1100	1000
Radius of travel R in mm	188	215	226	239	251	271	292	307	330	346	383	435	507

From coupling size 297, the thermal switching equipment can be used up to a peripheral speed of 50 m/s. At higher speeds, an EOC system should be provided.



Snap-action switching contact

Wiring proposition



Switchgear: FFA:000000652020

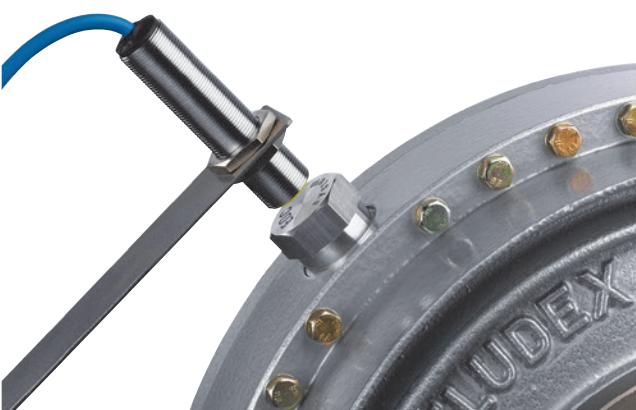
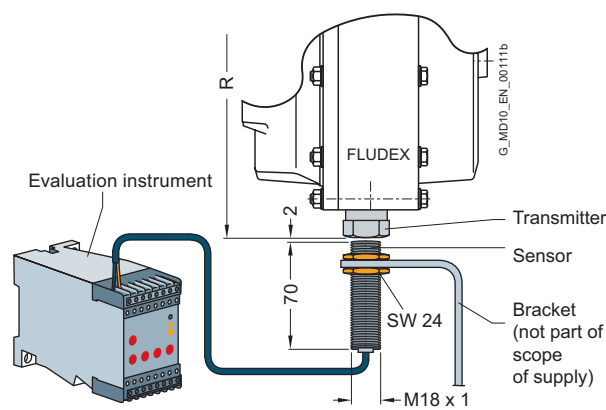
GENERAL

EOC system

On the EOC system the temperature-dependent magnitude of the magnetic field of the EOC transmitter is measured and used for a switching pulse. The transmitter signal is transmitted via the fixed sensor to the evaluation instrument and there compared with the set value. If the signal does not exceed the minimum value or no signal is received, the relay of the evaluation instrument switches over. This can cause a malfunction message to be sent and the motor cut out. The coupling housing remains closed.

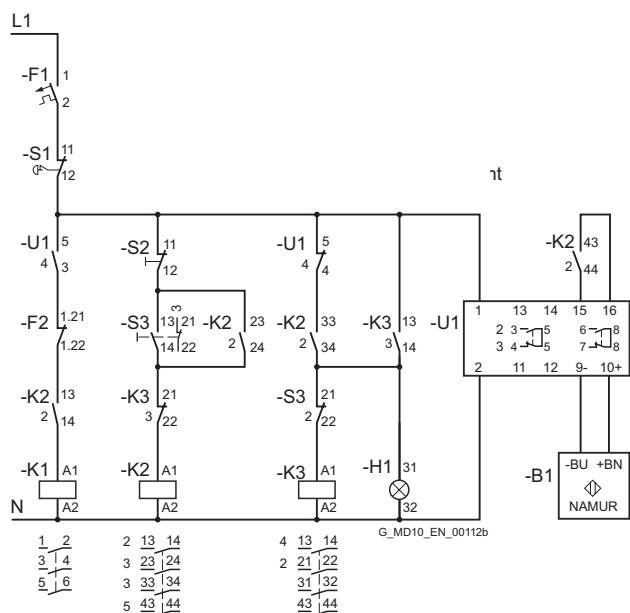
The fusible safety plug with a higher response temperature remains in the coupling for additional safety. The response temperature of the EOC system is 125 °C.

Components of the EOC system	
Component	Article No.
EOC transmitter with seal	FFA:000001194899
EOC sensor	FFA:000000361460
Evaluation instrument EWD	FFA:000001205294



13

	Coupling size												
	297	342	370	395	425	450	490	516	565	590	655	755	887
Radius of travel R to the transmitter in mm	188	215	226	239	251	271	292	307	330	346	383	435	507

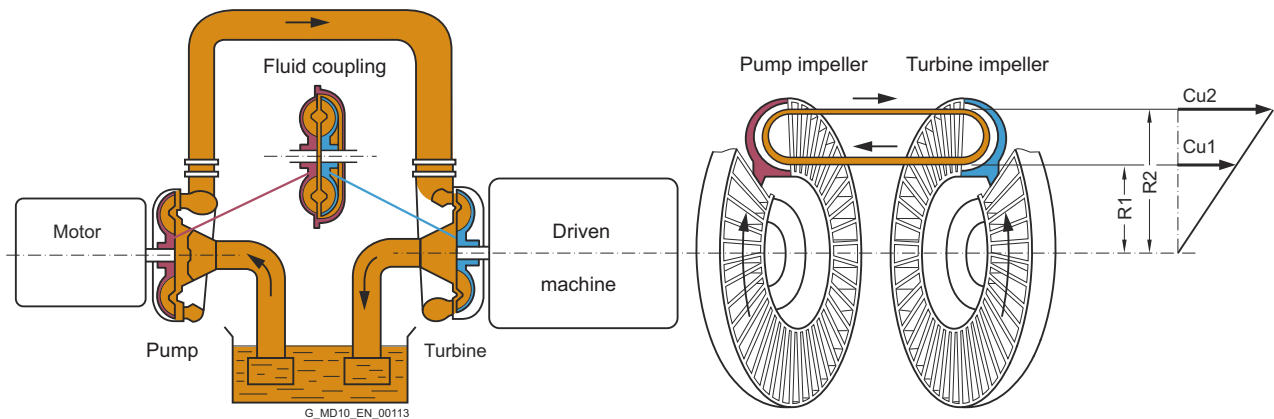


Wiring proposition

- B1 Sensor
- F1 Fuse
- F2 Motor protection switch
- H1 Malfunction
- K1 Motor protection
- K2 Contactor relay
- K3 Contactor relay
- S1 Emergency stop
- S2 Motor Off
- S3 Motor On
- U1 Evaluation instrument

Function

Föttinger principle



Two opposing, radially bladed impellers are housed in a leakproof housing. The impellers are not mechanically connected to each other. Because of the axially parallel arranged blades, the torque is transmitted independently of the direction of rotation and solely by the oil filling.

Hydrodynamic couplings have the characteristic properties of fluid flow engines. The transmissible torque depends on the density and quantity of the operating fluid and increases as the square of the drive speed and the fifth power of the profile diameter denoting the coupling size. In the driven pump impeller, mechanical energy is converted into kinetic flow energy of the operating fluid. In the turbine impeller, which is connected to the output side, flow energy is converted back to mechanical energy.

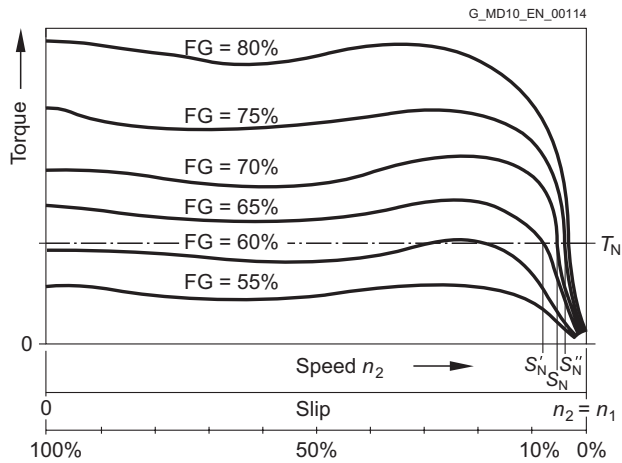
To generate the operating fluid circulation necessary for torque transmission, a difference in speed is necessary between the pump and turbine impellers. A centrifugal force pressure field is set up that is greater in the faster rotating pump impeller than in the turbine impeller. The difference in speed, usually termed "slip", at the continuous operating point of the coupling is between 2 % and 6 %, depending on application and coupling size. Immediately after drive motor start-up slip is 100 %, i.e. the pump impeller is driven at the speed of the motor, but the turbine impeller remains stationary.

Slip multiplied by the transmitted power represents the power loss of the coupling, which is converted into heat inside the oil filling. The amount of heat generated must be released into the environment via the coupling housing to prevent an impermissible temperature rise. The rated coupling output is mainly determined by the power loss which can be dissipated at a still acceptable operating temperature or a reasonable set slip limit. This distinguishes the FLUDEX coupling from all positively acting coupling assembly options for which the rated coupling torque is the defining characteristic.

Depending on the FLUDEX coupling series, drive is via the inner rotor (shaft/hollow shaft with rigidly connected blade wheel) or via the bladed housing impeller (blade wheel housing). The driving impeller is the pump impeller, and the driven impeller is the turbine impeller.

A low-viscosity mineral oil VG 22/VG 32, which also serves to lubricate the bearings, is used as fluid. In special types water, a water emulsion or low-flammability fluid may be used as a non-combustible fluid.

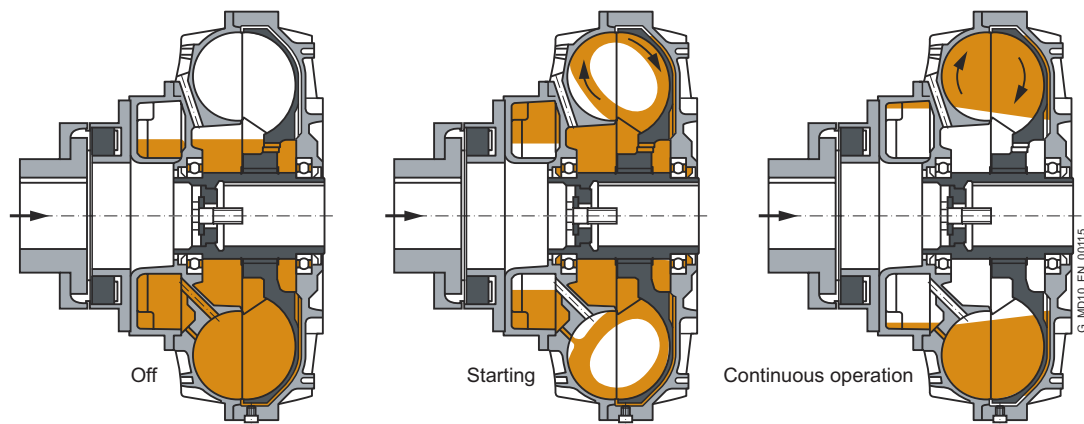
GENERAL



Slip-torque characteristics for different filling levels FG

The torque characteristic depends on the oil filling quantity FG in the coupling. This enables the transmissible torque on starting up to be set via the filling level. With a higher filling level the starting torque increases, while the operating slip and thus the coupling temperature rise decreases.

Conversely, with a lower filling level the starting torque decreases, the coupling becomes softer, while slip and coupling temperature rise.



Operation of the delay chamber

Starting torque can be reduced without increasing continuous operating slip by using a type of coupling with a delay chamber. On these couplings part of the oil filling is initially stored inactively in the delay chamber. The starting torque is considerably reduced because of the thus reduced starting filling in the working chamber of the coupling. The filling in the delay chamber runs very slowly,

mostly only at the finish of the starting operation, from the delay chamber into the working chamber, causing the active filling in it to rise gradually and the continuous operating slip to reach a value corresponding to the whole filling.

Technical specifications

Balancing FLUDEX couplings

In deviation from the balancing specifications in **Chapter E**, all FLUDEX couplings complying with DIN ISO 21940 are balanced to balancing quality G6.3 for 1800 rpm. For operating speeds higher than 1800 rpm micro-balancing, based on operating speed, can be requested.

Balancing is a two-level balancing with the specified oil quantity or a 75 % filling.

FLUDEX couplings are balanced in accordance with the half parallel key standard. Other balancing standards must be specified in the order.

Add-on couplings are subject to the standards as set out in **Chapter E**.

Oil filling

FLUDEX couplings can be delivered with or without oil filling.

- Delivery without oil filling
- Delivery with oil filling
- Delivery without oil filling but with oil filling quantity specification in liters

Hollow shafts of the FA, FG and FV series

Variant of FLUDEX hollow shafts only with finished bore.

Operating temperature range of FLUDEX couplings

FLUDEX couplings are suitable for ambient temperatures of between -40 °C and +40 °C.

For use at temperatures below -15 °C, FLUDEX couplings are exclusively delivered with NBR seals (Perbunan).

For use at temperatures below -20 °C, FLUDEX couplings are generally delivered without oil filling.


To select the operating oil for low temperatures, ensure that the pour point of the oil is sufficiently low and that it is compatible with the sealing elements.

The temperature limits of the N-EUPEX add-on coupling are shown in part 7 of this catalogue.

If other displacement couplings are combined with a FLUDEX coupling, their respective temperature limits must be taken into account.

GENERAL



Operating conditions for FLUDEX couplings in potentially explosive atmospheres

The coupling with fusible safety plugs with identity marking  T3 is suitable for the operating conditions set out in the ATEX Directive 2014/34/EU:

Equipment group II (above-ground applications)

Temperature class T3 of categories 2 and 3 for environments where there are potentially explosive gas, vapors, mist and air mixtures and for environments where dust can form potentially explosive atmospheres.

Equipment group I (below-ground applications) of category M2

-  If used in potentially explosive environments under ground, aluminum couplings must be provided with a robust enclosure to preclude the risk of ignition caused by e.g. friction, impact or friction sparks. The deposit of heavy-metal oxides (rust) on the coupling housing must be prevented by the enclosure or other suitable means.
-  FLUDEX couplings can be delivered with fitted brake disk or V-belt pulley.
Designing the belt drive or the brake disk to conform with the guidelines is the responsibility of the subassembly supplier. It should be noted that there is a risk from, amongst other things, electrostatic charges and hot surfaces.
Under BGR 132 (regulations of German Institute for Occupational Safety) the use of V-belts in conjunction with IIC gases is not permitted.

Axial retention

Axial retention is provided by a set screw or end washer with a retaining screw for shaft ends to DIN 748/1 long with a centering thread to DIN 332/2.

Bore and keyway width tolerances are specified in **Chapter A**.

Weights specified in the dimension order tables apply to maximum bore diameters without oil filling.

Configuration

Selection of FLUDEX coupling

In accordance with the requirements catalog various series, sizes and types of FLUDEX coupling are available. The FLUDEX coupling series is characterized by various flow chamber configurations, fitted delay chambers or fittings in the flow chamber. The types are determined by the design of the add-on coupling.

This results in different starting factors and characteristics which can be used for the most varied applications. The size is specified by stating the flow outside diameter.

When selecting, the series required for the application, taking into account the starting factor and the characteristic, must be selected.

Selection of FLUDEX series

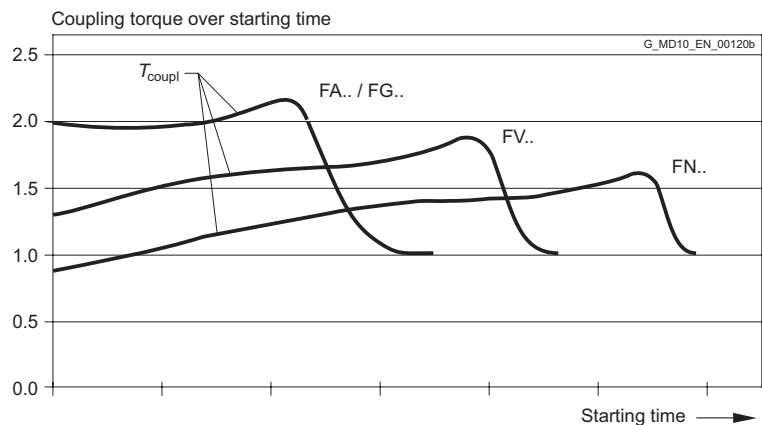
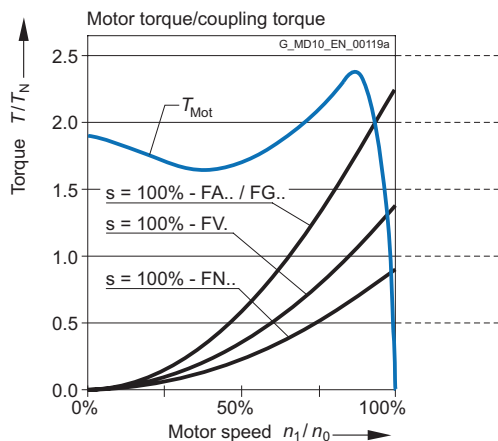
Series	Description
FA../FG..	Basic coupling without delay chamber
FV..	Coupling with delay chamber
FN..	Coupling with large delay chamber

FLUDEX couplings, which are to be used solely as an aid to starting the motor under no special conditions, can be selected according to the assignment tables from **Page 13/20** (for $n = 1500 \text{ min}^{-1}$) or from **Page 13/24** (for $n = 3000 \text{ min}^{-1}$).

If special requirements, based on the operating method of the prime mover or driven machine, are made of the coupling or the coupling is to be used in extreme environmental conditions, please give specific details in the enquiry or order. The form "Technical specifications for the selection of type and size" on **Page 13/19** can be used for this purpose.

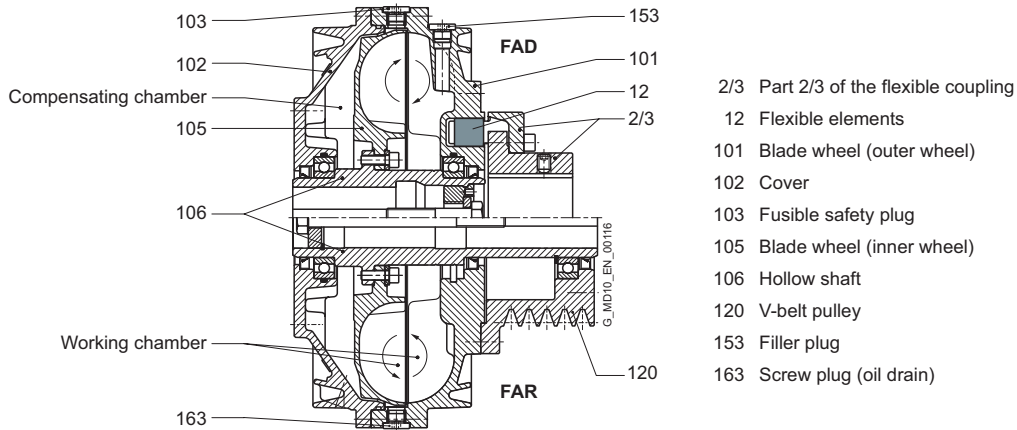
Start-up characteristics during the starting process

Depending on the series selected, different starting characteristics arise during starting.



GENERAL

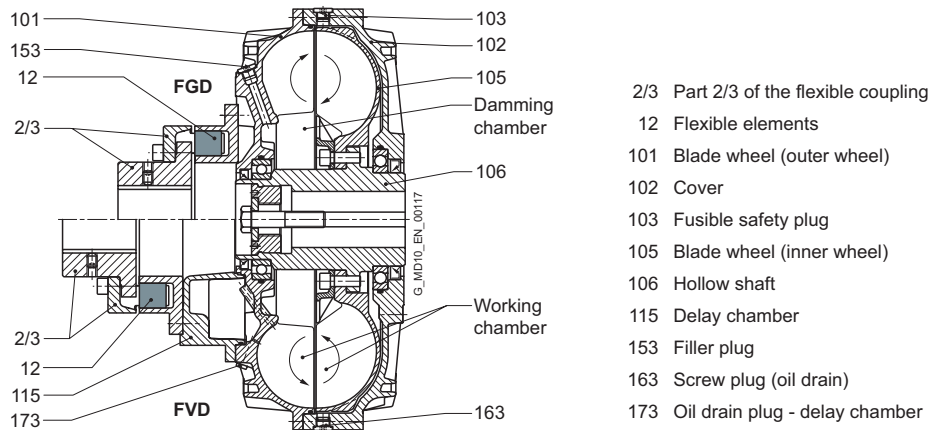
FA series – drive via the hollow shaft (impeller drive)



FLUDEX FA series couplings are basic couplings (without delay chamber) which are driven via the hollow shaft (106) with attached blade wheel (105). This enables the advantages of the compensating chamber and the working chamber to be used to best effect. Combinations with brake drums/disks and pulleys can also be easily achieved. When the coupling is started, part of the oil filling in the area of greatest slip is forced into the radially inner chambers and the compensating chamber by the strong rotational flow. This causes the effective oil filling in the working

chamber to be reduced and the desired torque limitation (approx. twice TN) to be achieved during starting. By means of additional fittings the coupling torque at the start of the starting operation can be limited to approx. 1.5 times the rated value. During run-up to speed the compensating chamber again empties into the working chamber, and this helps to reduce slip.

FG and FV series – drive via the housing



FLUDEX FG and FV series couplings are designed for drive via the coupling housing. In the FV series (coupling with delay chamber), the motor drives the coupling housing, comprising a blade wheel (101) and a cover (102), via the flexible N-EUPEX coupling (part 2/3) and the delay chamber (115). The rotational flow of the coupling filling drives the blade wheel (105) and the hollow shaft (106) on the output side, which is mounted on the gear unit or driven machine shaft. In the FG series (basic coupling), there is no delay chamber, and the flexible coupling is directly flange-mounted on the blade wheel.

When the coupling is started up, part of the oil filling is forced into the damming chamber. This enables the desired torque limitation (approx. twice T_N) to be achieved during motor starting. In the FV series the delay chamber also receives part of the oil filling in accordance with the fluid level when the coupling is stationary. During starting the effective oil filling in the working chamber is reduced by the amount of fluid in the delay chamber, thus considerably reducing the starting torque (approx. 1.5 times T_N).

From the delay chamber located on the drive side, the oil is fed back time-dependently to the working chamber via small holes and the coupling torque is raised, even if the output is blocked.

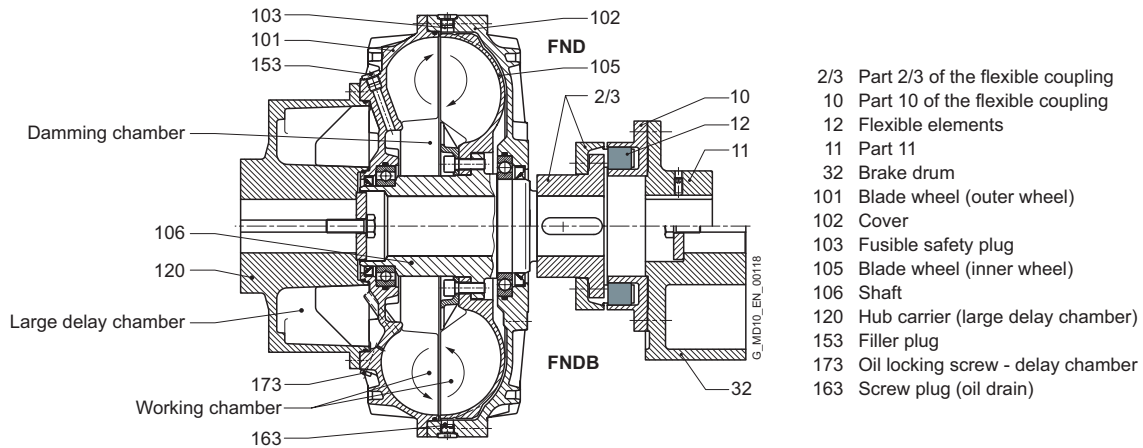
This replenishing function enables a drive to be soft-started with a very low starting torque and with an almost load-free motor. At the same time, however, increased load torques can be overcome by the torque increase in the coupling.

The property of the coupling with delay chamber can be used advantageously, for example, to soft-start empty, partly loaded and fully loaded conveyor belts.

FG series couplings are used for normal starting torque limitation, as a starting clutch for isolating vibration and for overload limitation in the event of drive blockage.

GENERAL

FN series – drive via the housing



FLUDEX FN series couplings have a larger delay chamber than the FV series. The delay chamber is designed as a hub carrier (120) and is mounted on the motor shaft. The hub carrier is flange-fitted to the housing (101, 102) of the FLUDEX coupling. Output is via the blade wheel (105) and the shaft (106) to the flexible N-EUPEX coupling connecting to the gear unit or driven machine. With types FND, FNDB and FNDS the coupling can be dismantled radially without moving the coupled machines.

The normally stronger motor shaft bears the weight of the hub carrier (cast version) and the main coupling. The gear unit shaft carries only the brake drum or disk and the output-side part of the flexible coupling. At the same time, the principle of the drive-side delay chamber with the capacity for increasing torque time-dependently is retained. FN couplings have the same fields of application as FV couplings. However, they offer special advantages in the brake disk design because of the weight distribution.

Because of the larger delay chamber, FN couplings enable even softer starting than FV couplings. Torque limitation during motor starting is approx. 1.3 times T_N . A further advantage of types FNDB and FNDS is the favorable weight distribution.

Selection of FLUDEX type

Listed in the catalog are FLUDEX couplings with pulley, brake drum, brake disk and flexible N-EUPEX coupling.

Further types, e.g. in combination with a torsionally rigid steel membrane coupling of the ARPEX series or a highly flexible coupling of the ELPEX or ELPEX-S series, are available.

Series	Description	Type	Add-on coupling	Characteristic feature
FA	<ul style="list-style-type: none"> without delay chamber impeller-driven Starting torque: $T_{\max} = 2,0 \cdot T_{\text{eff}}$ Starting aid for standard motors and torsional vibration isolation 	FA0	Without	<ul style="list-style-type: none"> Basic coupling with connecting flange
		FAR	Without	<ul style="list-style-type: none"> with attached pulley
		FAD	N-EUPEX D	<ul style="list-style-type: none"> enables change of flexible elements without axial displacement of the machine
		FAE	N-EUPEX E	<ul style="list-style-type: none"> enables larger bores on the output side
		FAM	N-EUPEX M	<ul style="list-style-type: none"> enables a short fitting length
		FADB	N-EUPEX D	<ul style="list-style-type: none"> with brake drum
		FADS SB	N-EUPEX D	<ul style="list-style-type: none"> with brake disk for stopping brakes enables change of flexible elements without axial displacement of the machine
		FADS HB	N-EUPEX D	<ul style="list-style-type: none"> with brake disk for blocking brakes enables change of flexible elements without axial displacement of the machine
FG	<ul style="list-style-type: none"> without delay chamber Housing-driven Starting torque: $T_{\max} = 2,0 \cdot T_{\text{eff}}$ Starting aid for standard motors, for torsional vibration isolation and for overload limitation in the event of drive blockage. 	FG0	Without	<ul style="list-style-type: none"> Basic coupling with connecting flange
		FGD	N-EUPEX D	<ul style="list-style-type: none"> enables change of flexible elements without axial displacement of the machine
		FGE	N-EUPEX E	<ul style="list-style-type: none"> enables larger bores on the output side
		FGM	N-EUPEX M	<ul style="list-style-type: none"> enables a short fitting length
FV	<ul style="list-style-type: none"> with delay chamber Housing-driven Starting torque: $T_{\max} = 1,5 \cdot T_{\text{eff}}$ Starting aid for motors and soft-starting of conveyor equipment 	FV0	Without	<ul style="list-style-type: none"> Coupling with connecting flange
		FVD	N-EUPEX D	<ul style="list-style-type: none"> enables change of flexible elements without axial displacement of the machine
		FVE	N-EUPEX E	<ul style="list-style-type: none"> enables larger bores on the output side
		FVM	N-EUPEX M	<ul style="list-style-type: none"> enables a short fitting length
FN	<ul style="list-style-type: none"> with large delay chamber Housing drive via hub carrier Starting torque: $T_{\max} = 1,3 \cdot T_{\text{eff}}$ Starting aid for motors with very unfavorable characteristic and soft-starting of empty and full conveying equipment favorable weight distribution on brake-drum variant 	FNO	Without	<ul style="list-style-type: none"> Coupling with connecting shaft
		FNA	N-EUPEX A	<ul style="list-style-type: none"> enables a short fitting length enables change of flexible elements without axial displacement of the machine
		FND	N-EUPEX D	<ul style="list-style-type: none"> enables change of flexible elements without axial displacement of the machine enables fitting and dismantling of the coupling without displacement of the coupled machine
		FNDB	N-EUPEX D	<ul style="list-style-type: none"> with brake drum enables change of flexible elements without axial displacement of the machine enables fitting and dismantling of the coupling without displacement of the coupled machine
		FNDS SB	N-EUPEX D	<ul style="list-style-type: none"> with brake disk for stopping brakes enables change of flexible elements without axial displacement of the machine enables fitting and dismantling of the coupling without displacement of the coupled machine
		FNDS HB	N-EUPEX D	<ul style="list-style-type: none"> with brake disk for blocking brakes enables change of flexible elements without axial displacement of the machine enables fitting and dismantling of the coupling without displacement of the coupled machine

The maximum shaft misalignments permissible for an N-EUPEX add-on coupling are shown in **catalog FLE 10.2**. For greater shaft misalignments FLUDEX couplings can be combined with cardan shafts or other displacement couplings.

FLUDEX couplings designed specifically for operation with water/water emulsion are available for use in mining applications.

GENERAL

Selection of FLUDEX size

The FLUDEX size is determined by the output to be transmitted in comparison with the rated outputs listed in the following tables. No application factors or additional safety factors need be taken into consideration.

The rated outputs stated in the tables normally require the maximum permissible filling (80 % to 85 %) of the coupling and because of operating slip, lead to the coupling heating up by approx. 50 °C relative to the ambient (cooling air) temperature. With lower outputs, coupling heating will be proportionately lower.

If for continuous operation of the coupling an absolute temperature (ambient temperature + coupling heating) of >85 °C is expected, the coupling must be fitted with FPM seals and 160 °C fusible safety plugs.

When selecting the size of a FLUDEX coupling in ATEX design or for operation with water/water emulsion, please note that these versions are normally designed with fusible safety plugs 110 °C and the maximum permitted coupling temperature must be limited to 85 °C.

FA series														FLUDEX size
Speed in rpm														
600	740	890	980	1180	1350	1470	1600	1770	2000	2300	2600	2950	3550	
Rated output P_N in kW														
	1.2	1.6	2.8	4.2	5.5	6.9	8.7	11.7	15	19	24	33	222	
1.2	2.3	4	5.5	9	14	18.5	23	29	37	48	60	70	90	297
2.6	4.8	8.7	11.5	18	27	34	40	51	65	82	97	120	145	342
5.7	10	16	21	36	49	61	74	87	105	135	165	180		395
11	21	32	41	65	90	110	127	155	190	230	290	370		450
19	36	60	75	115	154	190	215	260	310	395				516
37	69	109	134	200	260	320	360	435	540					590

FG, FV and FN series														FLUDEX size
Speed in rpm														
600	740	890	980	1180	1350	1470	1600	1770	2000	2300	2600	2950	3550	
Rated output P_N in kW														
4	7.5	12	16	26	38	48	61	85	110	140	170	220	290	370
7.5	15	23	30	48	70	90	115	140	175	220	280	340		425
15	30	45	58	95	140	180	210	245	300	380	480			490
28	55	85	110	180	255	300	350	420	525	660				565
55	110	170	220	350	450	520	600	730	900					655
110	210	330	440	600	760	870	1010	1220						755
240	440	700	810	1130	1440	1660								887
480	880	1400	1600	2000	2350	2500								887D ¹⁾

¹⁾ D = Multi-pass version on request.

Mass moments of inertia

FA series									
FLUDEX size	Series	Types							Oil filling quantity
	FA J_I kgm ²	FAO J_A kgm ²	FAD J_A kgm ²	FAE J_A kgm ²	FAM J_A kgm ²	FADB J_A kgm ²	FADS SB J_A kgm ²	FADS HB J_A kgm ²	max. l
222	0.014	0.056	0.061	0.061	0.06	0.084	0.287	0.109	1.55
297	0.04	0.173	0.193	0.193	0.193	0.226	0.673	0.246	3.7
342	0.092	0.314	0.356	0.352	0.353	0.469	1.002	0.42	6.6
395	0.203	0.66	0.745	0.73	–	1.03	1.814	1.15	9.5
450	0.404	1.087	1.217	1.217	–	1.497	3.611	1.818	13.4
516	0.896	2.109	2.439	–	–	3.359	5.969	3.238	22.7
590	1.295	3.455	3.785	–	–	6.605	7.315	4.584	33

FAR series				Oil filling quantity
FLUDEX size	J_I kgm ²	J_A kgm ²		max. l
222	0.014	2 · SPZ 100 0.062	3 · SPZ 160 0.071	1.55
297	0.107	5 · SPZ 150 0.202	4 · SPA 190 0.235	3.7
342	0.095	5 · SPA 180 0.386		6.6
395	5 · SPB = 0,214 7 · SPB = 0,210	5 · SPB 224 0.84	7 · SPB 236 0.96	9.5
450	0.426	8 · SPB 250 1.467	7 · SPB 280 1.144	13.4
516	0.946	10 · SPB 315 3.209		22.7
590	1.375	12 · SPC 315 4.955		33

FG/FV series												
FLUDEX size	Series		Types								Oil filling quantity	
	FG J_I kgm ²	FV J_I kgm ²	FGO J_A kgm ²	FVO J_A kgm ²	FGD J_A kgm ²	FVD J_A kgm ²	FGE J_A kgm ²	FVE J_A kgm ²	FGM J_A kgm ²	FVM J_A kgm ²	FG max. l	FV max. l
370	0.191	0.191	0.519	0.551	0.571	0.603	0.571	0.603	0.571	0.603	7.2	8
425	0.342	0.342	0.819	0.876	0.989	1.046	0.974	1.031	0.963	1.02	11	12
490	0.723	0.723	1.992	2.11	2.312	2.43	2.272	2.39	2.264	2.382	17	18.5
565	1.269	1.269	3.216	3.441	3.696	3.921	3.636	3.861	3.616	3.841	25.5	28
655	2.567	2.567	7.287	7.757	8.687	9.157	–	–	–	–	40	44
755	4.856	4.856	12.575	13.291	14.775	15.491	–	–	–	–	59	65
887	11.817	11.817	26.832	28.212	30.102	31.482	–	–	–	–	98	107

Note

- Mass moments of inertia J (including the power-transmitting oil filling components) apply to maximum bores

J_I Mass moment of inertia of the inner rotor (hollow shaft [106] + blade wheel [105]) in kgm²

J_A Mass moment of inertia of the outer housing (shell [101] + cover [102]) + any parts of the add-on coupling connected to them) in kgm²

GENERAL

FN series										
FLUDEX size	Hub carrier part	Series	Types					Weights		Oil filling quantity
		FN J_A kgm ²	FNO J_I kgm ²	FNA J_I kgm ²	FND J_I kgm ²	FNDS SB J_I kgm ²	FNDS HB J_I kgm ²	Y mm	F_Y N	max. l
370	Standard	0.657	0.237	0.281	0.32	1.18	0.386	197	685	8.2
	Long	0.647						227		
425	Standard	1.107	0.343	0.47	0.491	1.841	0.659	224	970	12.5
	Long	1.102						254		
490	Standard	2.48	0.737	0.954	0.999	3.009	1.285	235	1450	19
	Long	2.474						265		
565	Standard	4.175	1.364	1.715	1.835	5.075	2.081	278	2050	29
	Long	4.251						318		
655	Standard	9.319	2.567	3.587	3.777	6.777	4.701	330	3100	45
	Long	9.523						370		
755	Standard	15.616	4.91	6.878	7.198	12.078	9.689	352	4300	67
	Long	15.95						392		
887	Standard	33.662	11.832	15.132	16.632	24.03	20.428	406	7250	110
	Long	34.462						456		

Type FNDB							
FLUDEX size	Hub carrier part	Brake drum			Weights		Oil filling quantity
		ØDBT · BBT	J_A kgm ²	J_I kgm ²	Y mm	F_Y N	max. l
370	Standard	Ø315 · 118	0.657	0.64	197	685	8.2
	Long	Ø400 · 150		1.341			
425	Standard	Ø315 · 118	0.647	0.64	227	970	12.5
	Long	Ø400 · 150		1.341			
490	Standard	Ø315 · 118	1.107	0.811	224	1450	19
	Long	Ø400 · 150		1.492			
565	Standard	Ø315 · 118	1.102	0.811	254	2050	29
	Long	Ø400 · 150		1.492			
655	Standard	Ø400 · 150	2.48	1.994	235	3100	45
	Long	Ø500 · 190		4.009			
755	Standard	Ø400 · 150	2.474	1.994	265	4300	67
	Long	Ø500 · 190		4.009			
887	Standard	Ø400 · 150	4.175	2.835	278	7250	110
	Long	Ø500 · 190		4.775			
950	Standard	Ø400 · 150	4.251	2.835	318	3100	45
	Long	Ø500 · 190		4.775			
1050	Standard	Ø500 · 190	9.319	6.677	330	4300	67
	Long	Ø630 · 236		11.577			
1150	Standard	Ø500 · 190	9.523	6.677	370	7250	110
	Long	Ø630 · 236		11.577			
1250	Standard	Ø630 · 236	15.616	15.178	352	3100	45
	Long	Ø710 · 265		30.832			
1350	Standard	Ø630 · 236	15.95	15.178	392	4300	67
	Long	Ø710 · 265		30.832			
1450	Standard	Ø710 · 265	33.662	30.832	406	7250	110
	Long	Ø710 · 265		30.832			

Note

- Mass moments of inertia J (including the power-transmitting oil filling components) apply to maximum bores

J_I Mass moment of inertia of the inner rotor (shaft [106] + blade wheel [105]) + any parts of the add-on coupling connected to them in kgm²

J_A Mass moment of inertia of the outer housing (shell [101] + cover [102]) + hub carrier [120] in kgm²

Y Centroidal distance of the drive-side coupling masses, measured from the hub end face of the hub carrier.

F_Y Effective weight in mass center including maximum oil filling quantity

Technical data for type selection

Please complete as far as possible and return to your Flender Sales Office.

1. Intended use of coupling

- ☐ As starting aid ☐ For overload protection ☐ For torsional vibration isolation

2. Data for prime mover

- 2.1 ☐ Electric motor ☐ Characteristic enclosed
 Power rating $P_1 =$ kW at speed $n_1 =$ rpm
 Starting: ☐ Direct ☐ Star delta ☐ Other:
 Motor shaft: Ø · Length mm
- 2.2 ☐ Internal-combustion engine Number of cylinders:
 Planned max. power rating: kW at rpm
 operating range min. power rating: kW at rpm
☐ Attachment via shaft Ø · Length mm ☐ Attachment to flywheel SAE
☐ Motor rigidly ☐ Motor flexibly installed on foundation/base frame

3. Data for driven machine

- 3.1 Type of driven machine:
 3.2 Required power rating P_2 : kW at $n_2 =$ rpm
 3.3 Mass moment of inertia $J =$ kgm² (based on n_2)
 3.4 Operational cycle: ☐ uniform operation ☐ non uniform operation
 3.4.1. Starting frequency min.: ☐ 1 x / day ☐ 1 x / week ☐ 1 x / month ☐ Continuous operation (min. 2 months without stopping)
 Starting frequency max.: ☐ < 3 x in succession Number in succession:
☐ < 5 x / hour Number per hour:
 3.4.2. Duty cycle per operational cycle: ☐ 60 - 100% ☐ ED = %
 3.4.3. Dimensions of the gear unit/machine shaft on the coupling side Ø · Length mm

4. Ambient conditions

- 4.1 Place of installation: ☐ < 1000 m a.s.l. ☐ m a.s.l.
☐ out of doors ☐ in narrow space ☐ other:
 4.2 Temperature of the ambient air (cooling air): min. °C max. °C
 4.3 ☐ Fitting into guard ☐ bell housing
 Holes: ☐ with large (well ventilated) ☐ with small (less well ventilated)
☐ without holes: ☐ with forced ventilation ☐ without forced ventilation
 4.4 Environment: ☐ normally dusty ☐ extremely dusty ☐ abrasively dusty
☐ aggressive atmosphere:
 4.5 Use in potentially explosive atmospheres
☐ in conformity with ATEX: II 2G Ex h IIB T3 Gb X / II 2D Ex h IIIC T160 °C Db X / I M2 Ex h Mb X
☐ other class:

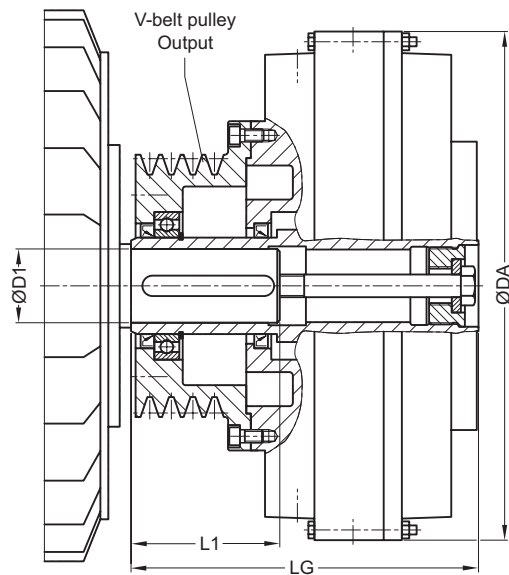
5. Arrangement of coupling

- 5.1 ☐ horizontal ☐ at an angle (max 20°) ☐ vertical: motor overhead ☐ vertical: motor underneath
- 5.2 between: and:
 Motor ☐ Driven machine
 Gear unit ($n_1 =$ rpm) ☐ Gear unit
 Transmission/belt drives ☐ Transmission/belt drives

FLUDEX COUPLING AS AN AID FOR STARTING THE IEC MOTORS

Speed $n = 1500 \text{ rpm}$, Type FAR with fitted V-belt pulley

This assignment offers safety in normal load cases and includes standard types with 140 °C fusible safety plugs, for horizontal fitting and an ambient air temperature from -40 °C to +40 °C.



13

Three-phase motor			FLUDEX coupling				V-belt pulley			➤ Article no. ¹⁾	Weight <i>m</i> kg
Size	1500 min ⁻¹ <i>P_M</i> kW	D1 · L1 mm	Size	Oil filling l	DA mm	LG mm	Profile, pitch Ø mm	Chamfer number	Recommended no. of belts		
80 M	0.55	19 · 40	222	0.9	263	153	SPZ 100	2	1	2LC0900-0AF90-0AA0	12
	0.75	19 · 40		1			SPZ 100	2	1		
90 S	1.1	24 · 50		1.1			SPZ 100	2	1	2LC0900-0AF90-0AA0	
90 L	1.5	24 · 50		1.2			SPZ 100	2	1	2LC0900-0AF90-0AA0	
100 L	2.2	28 · 60		1.4			SPZ 100	2	2	2LC0900-0AF90-0AA0	14
	3	28 · 60		1.5			SPZ 100	2	2		
112 M	4	28 · 60		1.55			SPZ 160	3	2	2LC0900-0AF91-0AA0	
132 S	5.5	38 · 80		1.55			SPZ 160	3	2	2LC0900-0AF91-0AA0	

Configurable variants ¹⁾

- Delivery without oil filling
- Delivery with oil filling with specification of oil filling quantity in l
- Delivery without oil filling with oil filling quantity specification in l

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

²⁾ Flank-open belts required.

➤ For online configuration on [flender.com](https://www.flender.com), click on the item no.

Three-phase motor			FLUDEX coupling				V-belt pulley			Article no. ¹⁾	Weight <i>m</i> kg
Size	1500 min ⁻¹		Size	Oil filling	DA	LG	Profile, pitch Ø	Chamfer number	Recommended no. of belts		
	<i>P_M</i> kW	D1 · L1 mm		l	mm	mm	mm				
132 M	7.5	38 · 80	297	3.2	340	226	SPZ 150	5	3	2LC0900-1AF90-0AA0	27
160 M	11	42 · 110		3.5			SPZ 150	5	4	2LC0900-1AF90-0AA0	
160 L	15	42 · 110		3.7			SPZ 150	5	5	2LC0900-1AF90-0AA0	
180 M	18.5	48 · 110	342	3.7	400	278	SPA 190	4	4	2LC0900-1AF91-0AA0	32
180 L	22	48 · 110		5.5			SPA 180	5	5	2LC0900-2AF90-0AA0	
200 L	30	55 · 110		6			SPA 180	5	5 ²⁾	2LC0900-2AF90-0AA0	
225 S	37	60 · 140	395	7.6	448	325	SPB 224	5	5	2LC0900-3AF90-0AA0	63
225 M	45	60 · 140		7.9			SPB 224	5	5	2LC0900-3AF90-0AA0	
250 M	55	65 · 140		8.4			SPB 224	5	5 ²⁾	2LC0900-3AF90-0AA0	
280 S	75	75 · 140	450	10.8	512	410	SPB 250	8	7	2LC0900-4AF90-0AA0	94
280 M	90	75 · 140		11.3			SPB 250	8	8	2LC0900-4AF90-0AA0	
315 S	110	80 · 170		12			SPB 250	8	8 ²⁾	2LC0900-4AF90-0AA0	
315 M	132	80 · 170	516	17.7	584	491	SPB 315	10	10	2LC0900-5AF90-0AA0	152
	160	80 · 170		18.6			SPB 315	10	10 ²⁾		

Configurable variants ¹⁾

- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C
- Axial retention is provided by a set screw and/or end washer with a retaining screw for shaft ends to DIN 748/1 long with a centering thread to DIN 332/2.
- For mass moments of inertia, centroidal distance Y and weight FY, see Page 13/18.

Ordering example

- Drive with motor 200 L, 30 kW at 1470 rpm with starting clutch and pulley
- FLUDEX FAR 342 coupling, standard type
- Hollow shaft: Bore ØD1 = 55H7 with keyway to DIN 6885/1 and retaining screw, with pulley 5xSPA Ø180.

Article no. delivery without oil filling:

2LC0900-2AF90-0AA0-Z L1D

Article no. delivery with oil filling:

2LC0900-1AF90-0AA0-Z L1D+F16+Y90

Plain text to Y90: 6.0 l

Article no. delivery with specification of oil filling quantity:

2LC0900-1AF90-0AA0-Z L1D+Y90

Plain text to Y90: 6.0 l

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

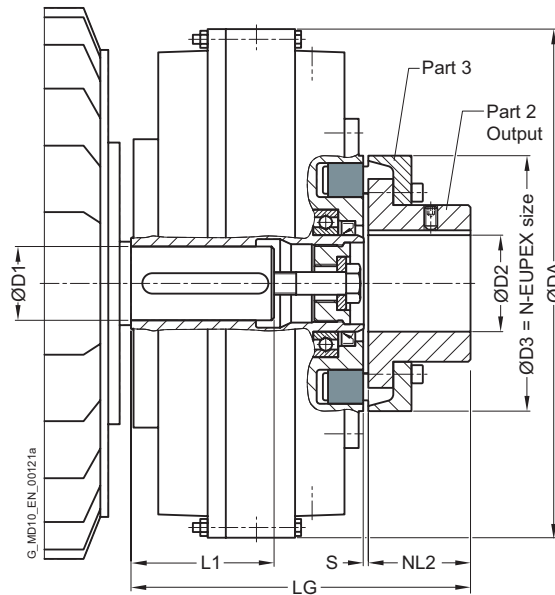
²⁾ Flank-open belts required.

➤ For online configuration on [flender.com](https://www.flender.com), click on the item no.

FLUDEX COUPLING AS AN AID FOR STARTING THE IEC MOTORS

Speed $n = 1500 \text{ rpm}$, Type FAD with N-EUPEX D add-on coupling

This assignment offers safety in normal load cases and includes standard types with 140°C fusible safety plugs, for horizontal fitting and an ambient air temperature from -40°C to $+40^\circ\text{C}$.



13

Three-phase motor Size	1500 min ⁻¹		FLUDEX coupling Size	Oil filling	DA	LG	N-EUPEX D add-on coupling			Article no. ¹⁾	Weight <i>m</i> kg
	P_M kW	D1 · L1 mm					NL2	D3	D2 ²⁾ max. mm		
80 M	0.55	19 · 40	222	0.9	263	180	40	110	38	2LC0900-0AA9	12
	0.75	19 · 40		1							
90 S	1.1	24 · 50		1.1							
90 L	1.5	24 · 50		1.2							
	2.2	28 · 60		1.4							
100 L	3	28 · 60		1.5							
112 M	4	28 · 60		1.55							
132 S	5.5	38 · 80		1.55							

Configurable variants ¹⁾

- ØD2 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on flender.com.

²⁾ Larger bores on the power takeoff side are possible with the FAE type.

➤ For online configuration on flender.com, click on the item no.

Three-phase motor			FLUDEX coupling				N-EUPEX D add-on coupling			Article no. ¹⁾	Weight <i>m</i> kg
Size	1500 min ⁻¹ <i>P_M</i> kW	D1 · L1 mm	Size	Oil filling l	DA mm	LG mm	NL2 mm	D3 mm	D2 ²⁾ max. mm		
132 M	7.5	38 · 80	297	3.2	340	233	50	125	45	2LC0900-1AA9	24
160 M	11	42 · 110		3.5						2LC0900-1AA9	
160 L	15	42 · 110		3.7						2LC0900-1AA9	
180 M	18.5	48 · 110		3.7						2LC0900-1AA9	
180 L	22	48 · 110	342	5.5	400	271	55	140	50	2LC0900-2AA9	34
200 L	30	55 · 110		6						2LC0900-2AA9	
225 S	37	60 · 140	395	7.6	448	299	90	225	85	2LC0900-3AA9	53
225 M	45	60 · 140		7.9						2LC0900-3AA9	
250 M	55	65 · 140		8.4						2LC0900-3AA9	
280 S	75	75 · 140	450	10.8	512	338	100	250	95	2LC0900-4AA9	70
280 M	90	75 · 140		11.3						2LC0900-4AA9	
315 S	110	80 · 170		12						2LC0900-4AA9	
315 M	132	80 · 170	516	17.7	584	398	125	315	120	2LC0900-5AA9	113
	160	80 · 170		18.6							

Configurable variants ¹⁾

- ØD2 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C
- Axial retention is provided by a set screw and/or end washer with a retaining screw for shaft ends to DIN 748/1 long with a centering thread to DIN 332/2.
- For mass moments of inertia, centroidal distance Y and weight FY, see **Page 13/18**.

Ordering example

- Drive with motor 250 M, 55 kW at 1470 rpm with starting clutch for connecting two shafts.
- FLUDEX FAD 395 coupling, standard type
- Hollow shaft: Bore ØD1 = 65H7 with keyway to DIN 6885/1 and retaining screw
- Part 2: Bore ØD2 = 45H7 with keyway to DIN 6885/1 and set screw

Article no. delivery without oil filling:
2LC0900-3AA99-0AA0-Z L1F+M1A

Article no. delivery with oil filling:
2LC0900-3AA99-0AA0-Z L1F+M1A+F16+Y90
Plain text to Y90: 8.4 l

Article no. delivery with specification of oil filling quantity:
2LC0900-3AA99-0AA0-Z L1F+M1A+Y90
Plain text to Y90: 8.4 l

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

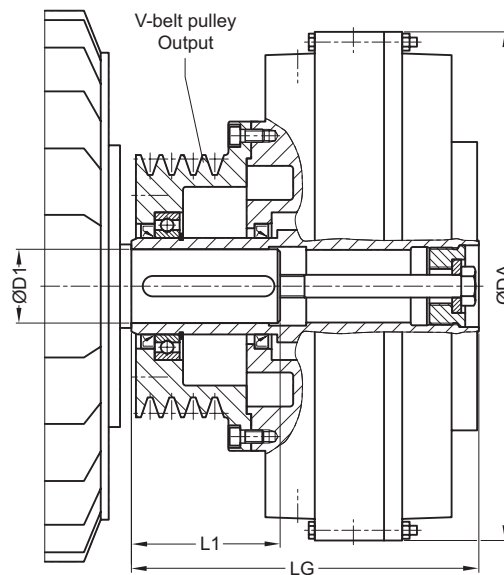
²⁾ Larger bores on the power takeoff side are possible with the FAE type.

➤ For online configuration on [flender.com](https://www.flender.com), click on the item no.

FLUDEX COUPLING AS AN AID FOR STARTING THE IEC MOTORS

Speed $n = 3000 \text{ rpm}$, Type FAR with fitted V-belt pulley

This assignment offers safety in normal load cases and includes standard types with 140°C fusible safety plugs, for horizontal fitting and an ambient air temperature from -40°C to $+40^\circ\text{C}$.



13

Three-phase motor			FLUDEX coupling				V-belt pulley			↗ Article no. ¹⁾	Weight	
Size	3000 min ⁻¹		Size	Oil filling			Profile, pitch Ø	Chamfer number	Recommended no. of belts		<i>m</i>	
	<i>P_M</i> kW	D1 · L1 mm			DA mm	LG mm					kg	
90 S	1.5	24 · 50	222	0.7	263	153	SPZ 100	2	1	2LC0900-0AF90-0AA0	12	
90 L	2.2	24 · 50		0.8			SPZ 100	2	1			
100 L	3	28 · 60		0.9			SPZ 100	2	1			2LC0900-0AF90-0AA0
112 M	4	28 · 60		1			SPZ 100	2	2			2LC0900-0AF90-0AA0
132 S	5.5	38 · 80		1			SPZ 100	2	2	2LC0900-0AF90-0AA0	14	
	7.5	38 · 80		1.1			SPZ 160	3	2	2LC0900-0AF91-0AA0		
160 M	11	42 ³⁾ · 110		1.2			SPZ 160	3	2	2LC0900-0AF91-0AA0		
	15	42 ³⁾ · 110		1.3			SPZ 160	3	3			
160 L	18.5	42 ³⁾ · 110		1.4			SPZ 160	3	3	2LC0900-0AF91-0AA0		

Configurable variants ¹⁾

- Delivery without oil filling
- Delivery with oil filling with specification of oil filling quantity in l
- Delivery without oil filling with oil filling quantity specification in l

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

²⁾ Flank-open belts required.

³⁾ Version with flat groove as per DIN 6885/3.

➤ For online configuration on [flender.com](https://www.flender.com), click on the item no.

Three-phase motor			FLUDEX coupling				V-belt pulley			➤ Article no. ¹⁾	Weight
Size	3000 min ⁻¹		Size	Oil filling			Profile, pitch Ø	Chamfer number	Recommended no. of belts		
	P _M	D1 · L1			DA	LG					
	kW	mm		l	mm	mm	mm			m	
										kg	
180 M	22	48 · 110	297	2.5	340	226	SPZ 150	5	4	2LC0900-1AF90-0AA0	27
200 L	30	55 · 110		2.7			SPZ 150	5	5	2LC0900-1AF90-0AA0	
	37	55 · 110		2.8			SPA 190	4	4	2LC0900-1AF91-0AA0	32
225 M	45	55 · 110		2.9			SPA 224	5	4	2LC0900-1AF92-0AA0	35
250 M	55	60 ³⁾ · 140		3.1			SPA 224	5	5	2LC0900-1AF92-0AA0	
280 S	75	65 · 140	395	5.3	448	363.5	SPB 236	7	5	2LC0900-3AF91-0AA0	70
280 M	90	65 · 140		5.6			SPB 236	7	6	2LC0900-3AF91-0AA0	
315 S	110	65 · 140		5.9			SPB 236	7	7	2LC0900-3AF91-0AA0	
315 M	132	65 · 140		6.2			SPB 236	7	7 ²⁾	2LC0900-3AF91-0AA0	
315 L	160	65 · 140		6.8			SPB 280	7	7 ²⁾	2LC0900-3AF92-0AA0	83

Configurable variants ¹⁾

- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C
- Axial retention is provided by a set screw and/or end washer with a retaining screw for shaft ends to DIN 748/1 long with a centering thread to DIN 332/2.
- For mass moments of inertia, centroidal distance Y and weight FY, see **Page 13/18**.

Ordering example

- Drive with motor 200 L, 37 kW at 2950 rpm with starting clutch and pulley
- FLUDEX FAR 297 coupling, standard type
- Hollow shaft: Bore ØD1 = 55H7 with keyway to DIN 6885/1 and retaining screw, with pulley 4xSPA Ø190.

Article no. delivery without oil filling:

2LC0900-1AF91-0AA0-Z L1D+W03+Y95

Plain text to Y95: G=6.3;n=3000rpm

Article no. delivery with oil filling:

2LC0900-1AF91-0AA0-Z L1D+F16+W03+Y90+Y95

Plain text to Y90: 2.8 l

Plain text to Y95: G=6.3;n=3000rpm

Article no. delivery with specification of oil filling quantity:

2LC0900-1AF91-0AA0-Z L1D+W03+Y90+Y95

Plain text to Y90: 2.8 l

Plain text to Y95: G=6.3;n=3000rpm

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on **flender.com**.

²⁾ Flank-open belts required.

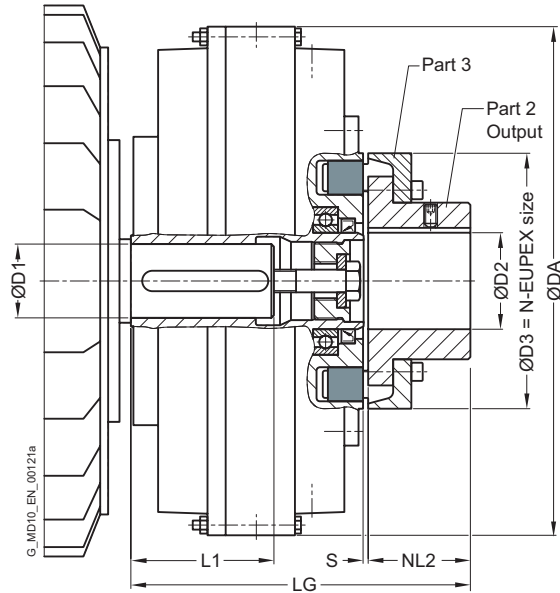
³⁾ Version with flat groove as per DIN 6885/3.

➤ For online configuration on **flender.com**, click on the item no.

FLUDEX COUPLING AS AN AID FOR STARTING THE IEC MOTORS

Speed $n = 3000$ rpm, Type FAD with N-EUPEX D add-on coupling

This assignment offers safety in normal load cases and includes standard types with 140 °C fusible safety plugs, for horizontal fitting and an ambient air temperature from -40 °C to +40 °C.



13

Three-phase motor			FLUDEX coupling				N-EUPEX D add-on coupling			Article no. ¹⁾	Weight <i>m</i> kg
Size	3000 min ⁻¹ <i>P_M</i> kW	D1 · L1 mm	Size	Oil filling l	DA mm	LG mm	NL2 mm	D3 mm	D2 ²⁾ max. mm		
90 S	1.5	24 · 50	222	0.7	263	180	40	110	38	2LC0900-0AA9	12
90 L	2.2	24 · 50		0.8						2LC0900-0AA9	
100 L	3	28 · 60		0.9						2LC0900-0AA9	
112 M	4	28 · 60		1						2LC0900-0AA9	
132 S	5.5	38 · 80		1						2LC0900-0AA9	
	7.5	38 · 80		1.1						2LC0900-0AA9	
160 M	11	42 ³⁾ · 110		1.2						2LC0900-0AA9	
	15	42 ³⁾ · 110		1.3						2LC0900-0AA9	
160 L	18.5	42 ³⁾ · 110		1.4						2LC0900-0AA9	

Configurable variants ¹⁾

- ØD2 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on flender.com.

²⁾ Larger bores on the power takeoff side are possible with the FAE type.

³⁾ Version with flat groove as per DIN 6885/3.

➤ For online configuration on flender.com, click on the item no.

Three-phase motor			FLUDEX coupling				N-EUPEX D add-on coupling			Article no. ¹⁾	Weight <i>m</i> kg
Size	3000 min ⁻¹ <i>P_M</i> kW	D1 · L1 mm	Size	Oil filling l	DA mm	LG mm	NL2 mm	D3 mm	D2 ²⁾ max. mm		
180 M	22	48 · 110	297	2.5	340	233	50	125	45	2LC0900-1AA9	24
200 L	30	55 · 110		2.7						2LC0900-1AA9	
200 L	37	55 · 110		2.8						2LC0900-1AA9	
225 M	45	55 · 110		2.9						2LC0900-1AA9	
250 M	55	60 ³⁾ · 140		3.1						2LC0900-1AA9	
280 S	75	65 · 140	395	5.3	448	299	90	225	85	2LC0900-3AA9	53
280 M	90	65 · 140		5.6						2LC0900-3AA9	
315 S	110	65 · 140		5.9						2LC0900-3AA9	
315 M	132	65 · 140		6.2						2LC0900-3AA9	
315 L	160	65 · 140		6.8						2LC0900-3AA9	

Configurable variants ¹⁾

- ØD2 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C
- Axial retention is provided by a set screw and/or end washer with a retaining screw for shaft ends to DIN 748/1 long with a centering thread to DIN 332/2.
- For mass moments of inertia, centroidal distance Y and weight FY, see Page 13/18.

Ordering example

- Drive with motor 280 M, 90 kW at 2950 rpm with starting clutch for connecting two shafts.
- FLUDEX FAD 395 coupling, standard type
- Hollow shaft: Bore ØD1 = 65H7 with keyway to DIN 6885/1 and retaining screw
- Part 2: Bore ØD2 = 60H7 with keyway to DIN 6885/1 and set screw

Article no. delivery without oil filling:

2LC0900-3AA99-0AA0-Z L1F+M1E+W03+Y95

Plain text to Y95: G=6.3;n=3000rpm

Article no. delivery with oil filling:

2LC0900-3AA99-0AA0-Z L1F+M1E+F16+W03+Y90+Y95

Plain text to Y90: 5.6 l

Plain text to Y95: G=6.3;n=3000rpm

Article no. delivery with specification of oil filling quantity:

2LC0900-3AA99-0AA0-Z L1F+M1E+W03+Y90+Y95

Plain text to Y90: 5.6 l

Plain text to Y95: G=6.3;n=3000rpm

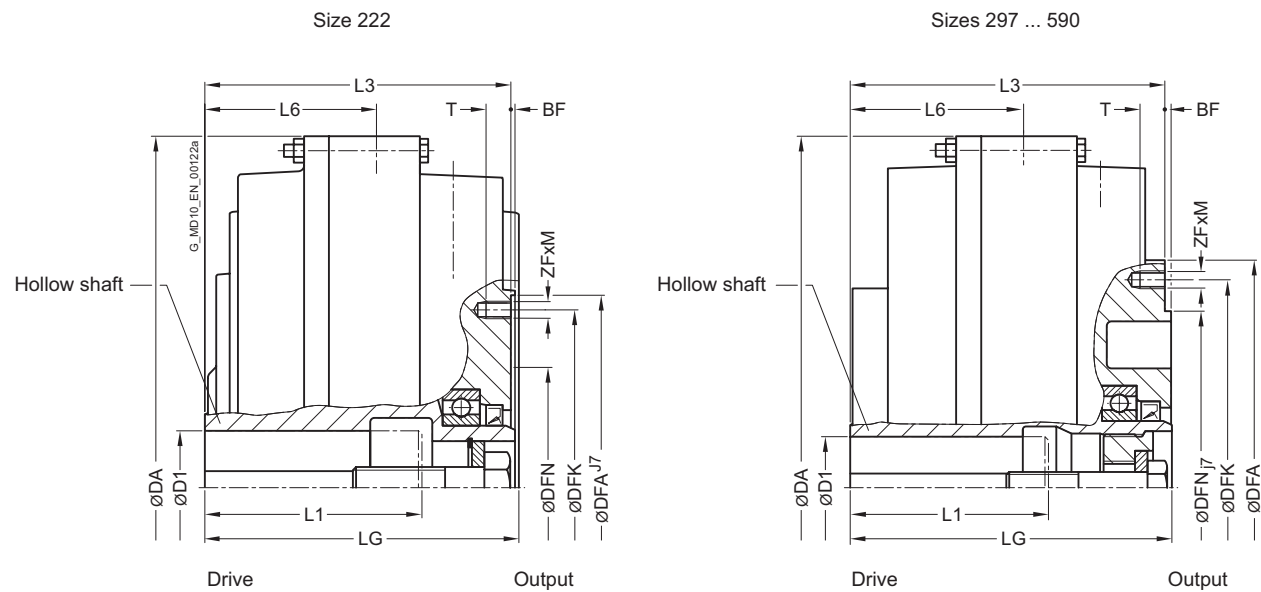
¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

²⁾ Larger bores on the power takeoff side are possible with the FAE type.

³⁾ Version with flat groove as per DIN 6885/3.

➤ For online configuration on [flender.com](https://www.flender.com), click on the item no.

TYPE FAO



Size	Maximum speed	FLUDEX coupling installation dimensions								Flange connection dimensions						Tightening torque for screws in thread ZF x M T_A	➤ Article no. ¹⁾	Weight
		D1 Keyway to DIN 6885			L1	DA	L3	L6	L6	DFN	DFA	BF	DFK	ZF · M	T			
	min.	max.	Preferred bore	max.	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm	m	
	rpm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm	kg	
222	3600	38 <small>>38²⁾</small>	28 <small>42²⁾</small>	80	263	110	58	112	90	144	2	128	6 · M8	12	18.7	2LC0900-0AG90-0AA0	10	
297	3600	38 <small>>38</small>	42	80	340	145	83	150	125	195	3	172	6 · M8	12	18.7	2LC0900-1AG90-0AA0	18	
		<small>>55²⁾</small>	<small>60²⁾</small>	110	110													
342	3600	55 <small>>55²⁾</small>	48 + 55 <small>110</small>	110 <small>120</small>	400	174	101	180	140	230	4	205	8 · M10	15	31	2LC0900-2AG90-0AA0	26	
395	3000	65	60 + 65	140	448	200.5	110.5	205	225	290	4	265	8 · M12	18	54	2LC0900-3AG90-0AA0	40	

Configurable variants ¹⁾

- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on flender.com.

²⁾ Version with flat groove as per DIN 6885/3.

➤ For online configuration on flender.com, click on the item no.

Size	Maxi- mum speed	FLUDEX coupling installation dimensions								Flange connection dimensions						Tightening torque for screws in thread ZF x M T_A	↗ Article no. ¹⁾	Weight
	n_{Kmax}	D1 Keyway to DIN 6885			L1	DA	L3	L6	LG	DFN	DFA	BF	DFK	ZF · M	T			
		min.	max.	Prefer- red bore	max.													
		rpm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm			Nm
450	3000		75	65 + 75	140	512	228	126	233	250	310	4	285	8 · M12	18	54	2LC0900-4AG90-0AA0	53
		>75	80		170													
516	2300		55		140	584	263	147	270	315	390	5	360	8 · M16	24	135	2LC0900-5AG90-0AA0	84
		>55	90	80	170													
590	2000		75		140	662	298	166	305	315	390	5	360	8 · M16	24	135	2LC0900-6AG90-0AA0	109
		>75	95		170													
		>95	100		210													

Configurable variants ¹⁾

- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C
- For mass moments of inertia, centroidal distance Y and weight FY, see **Page 13/18**.

Ordering example

- Motor 37 kW, $P_{eff} = 30$ kW, $n_1 = 1470$ rpm, maximum output torque: $T_{max} = 2.0 \cdot T_{eff}$
- FLUDEX FAO coupling size 342
- Hollow shaft: Bore $\varnothing D1 = 60H7$ mm with keyway to DIN 6885/3 and retaining screw
- Seal set FPM
- Specification of oil filling quantity: 6.0 l (see **Page 13/9**)

Article no. with 160 °C fuse:

2LC0900-2AG90-0AA0-Z L1E+F08+Y90

Plain text to Y90: 6.0 l

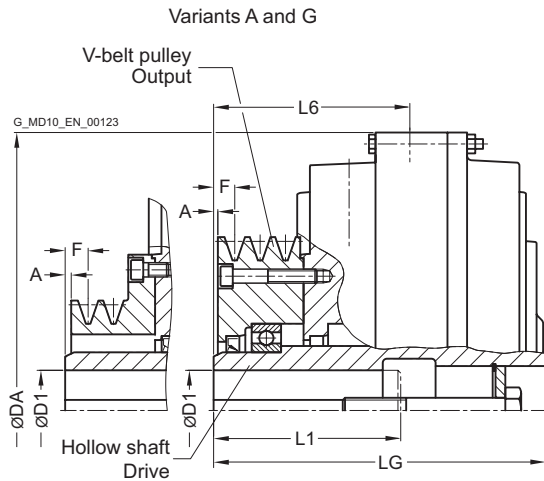
¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on **flender.com**.

²⁾ Version with flat groove as per DIN 6885/3.

➤ For online configuration on **flender.com**, click on the item no.

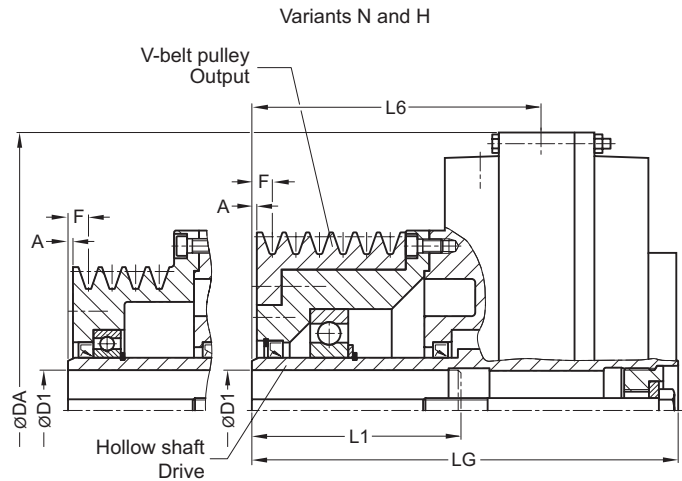
TYPE FAR

with attached v-belt pulley



Variant A

Variant G



Variant N

Variant H

Size	Maximum speed n_{Kmax} rpm	FLUDEX coupling							V-belt pulley				Type	↗ Article no. ¹⁾	Weight m kg
		D1 Keyway to DIN 6885			L1 max. mm	DA mm	L6 mm	LG mm	Profile, pitch Ø mm	Chamfer number	A mm	F mm			
		min. mm	max. mm	Preferred bore mm											
222	3600		28	28	60	263	95	153	SPZ 100	2	1	9	A	2LC0900-0AF90-0AA0	12
		>28	38	105	SPZ 160				3	G			2LC0900-0AF91-0AA0	14	
		>38 ²⁾	42 ²⁾	110											
297	3600		38	80	110	340	143	226	SPZ 150	5	2	10	N	2LC0900-1AF90-0AA0	27
		>38	55	42					SPA 190	4			H	2LC0900-1AF91-0AA0	32
		>55 ²⁾	59 ²⁾	110					SPA 224	5			G	2LC0900-1AF92-0AA0	35
		>59 ²⁾	60 ²⁾	140											
342	3600		55	55	110	400	177	278	SPA 180	5	4	14	N	2LC0900-2AF90-0AA0	40
395	3000		55	110	448	214.5	325	SPB 224	5	4	16.5	N	2LC0900-3AF90-0AA0	63	
		>55	65	60 + 65	140							N	2LC0900-3AF91-0AA0	70	
	3000		55	110				SPB 236	7			H	2LC0900-3AF92-0AA0	83	
	2700	>55	75	140	448	253	363.5	SPB 280	7						

Configurable variants ¹⁾

- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on flender.com.

²⁾ Version with flat groove as per DIN 6885/3.

↗ For online configuration on flender.com, click on the item no.

Size	Maximum speed n_{Kmax} rpm	FLUDEX coupling							V-belt pulley		Type		Article no. ¹⁾	Weight m kg
		D1 Keyway to DIN 6885			L1	DA	L6	LG	Profile, pitch Ø	Chamfer number	A	F		
		min. mm	max. mm	Preferred bore mm	max. mm	mm	mm	mm	mm		mm	mm		
450	3000		55		110								2LC0900-4AF90-0AA0	94
		>55	75	65 + 75	140	512	284	410	SPB 250	8	4	16.5		
		>75	80		170									
516	2300		55		110								2LC0900-5AF90-0AA0	152
		>55	75		140	584	344	491	SPB 315	10	4	16.5		
		>75	95		170									
590	2000		55		110								2LC0900-6AF90-0AA0	208
		>55	75		140	662	476	642	SPC 315	12	4	21		
		>75	95		170									
		>95	100		210									

Configurable variants ¹⁾

- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C

Ordering example

- Motor 45 kW, $P_{eff} = 37$ kW, $n_1 = 1470$ rpm, maximum output torque: $T_{max} = 2.0 \cdot T_{eff}$.
- FLUDEX FAR coupling size 395
- Hollow shaft: Bore ØD1 = 60H7 mm with keyway to DIN 6885/1 and retaining screw
- Specification of oil filling quantity: 7.6 l (see Page 13/9)

Article no. with pulley 5xSPB224:

2LC0900-3AF90-0AA0-Z L1E+Y90

Plain text to Y90: 7.6 l

Article no. with pulley 7xSPB236:

2LC0900-3AF91-0AA0-Z L1E+Y90

Plain text to Y90: 7.6 l

Article no. with 160 °C fuse:

2LC0900-3AF90-0AA0-Z L1E+Y90+F08

Plain text to Y90: 7.6 l

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

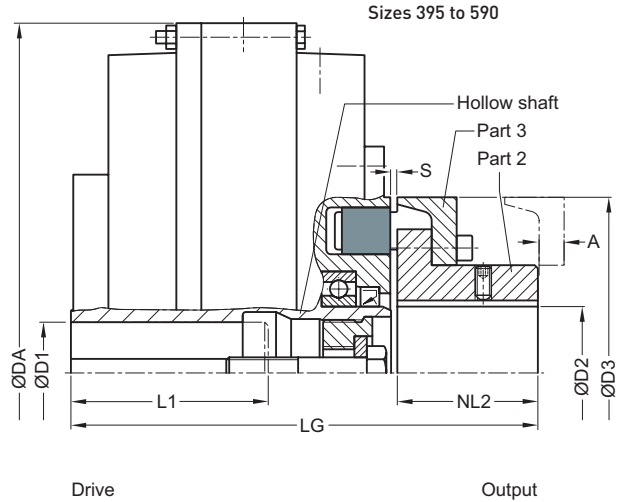
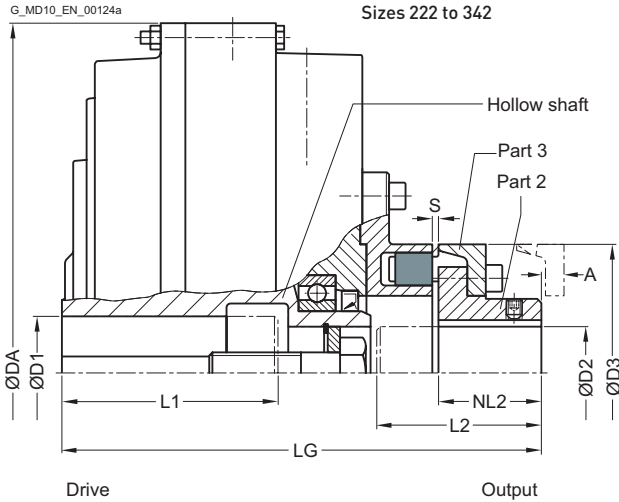
²⁾ Version with flat groove as per DIN 6885/3.

➤ For online configuration on [flender.com](https://www.flender.com), click on the item no.

TYPE FAD

with N-EUPEX D add-on coupling

Enables change of flexible elements without axial displacement of the shafts if the space "A" is provided.



Size	Maximum speed n_{Kmax}	FLUDEX coupling						N-EUPEX D add-on coupling						↗ Article no. ¹⁾	Weight m
		D1 Keyway to DIN 6885			L1	DA	LG	D2	L2	NL2	Size D3	S	A		
	rpm	min. mm	max. mm	Preferred bore mm	max. mm	mm	mm	max. mm	max. mm	mm	mm	mm	mm	mm	mm
222	3600		38	28	80	263	180	38	65	40	110	3 ⁺¹ ₋₁	13	2LC0900-0AA9	12
297	3600		38		80										
		>38	55	42	110	340	233	45	80	50	125	3 ⁺¹ ₋₁	11	2LC0900-1AA9	24
		>55 ²⁾	60 ²⁾		110										
342	3600		55	48 + 55	110	400	271	50	88	55	140	3 ⁺¹ ₋₁	16	2LC0900-2AA9	34
395	3000		65												
			65	60 + 65	140	448	299	85	90	90	225	4,5 ^{+1.5} _{-1.5}	9	2LC0900-3AA9	53
		>75	80		170	512	338	95	100	100	250	6 ⁺² ₋₃	11	2LC0900-4AA9	70
516	2300		55		140	584	398	120	125	125	315	5 ⁺³ ₋₂	0	2LC0900-5AA9	113
590	2000		75		140										
		>75	95		170	662	433	120	125	125	315	5 ⁺³ ₋₂	0	2LC0900-6AA9	138
		>95	100		210										

Configurable variants ¹⁾

- ØD2 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C

Ordering example

- Motor 160 kW, $P_{eff} = 132$ kW, $n_1 = 1470$ rpm, maximum output torque: $T_{max} = 2.0 \cdot T_{eff}$.
- FLUDEX FAD coupling size 516
- Hollow shaft: Bore ØD1= 80H7 mm with keyway to DIN 6885/1 and retaining screw
- Part 2: with finished bore ØD2 = 80H7
- Specification of oil filling quantity: 17.7 l (see Page 13/9)

Article no.: 2LC0900-5AA99-0AA0-Z L1J+M1J+Y90

Plain text to Y90: 17.7 l

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

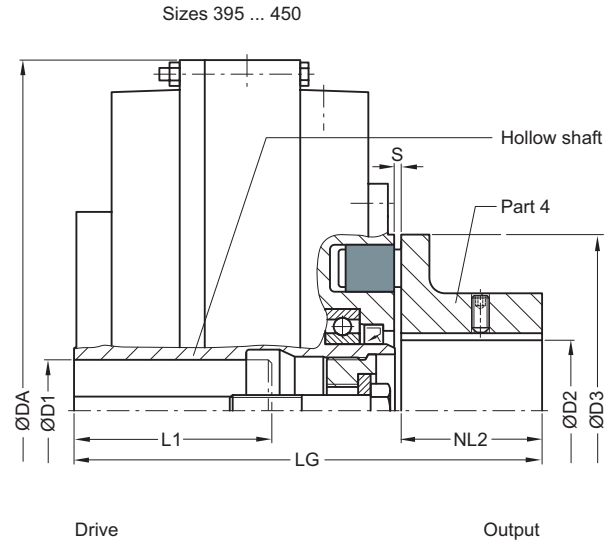
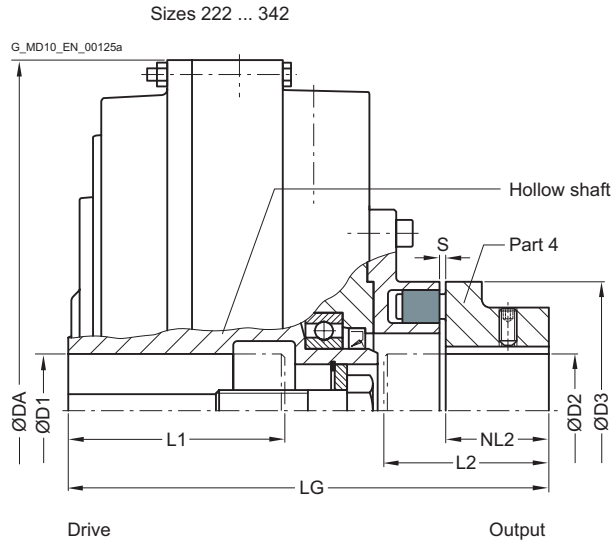
²⁾ Version with flat groove as per DIN 6885/3.

↗ For online configuration on [flender.com](https://www.flender.com), click on the item no.

TYPE FAE

with N-EUPEX E add-on coupling

Enables larger bores on the output side.



Size	Maximum speed n_{Kmax}	FLUDEX coupling						N-EUPEX E add-on coupling					↗ Article no. ¹⁾	Weight m
		D1 Keyway to DIN 6885			L1	DA	LG	D2	L2	NL2	Size D3	S		
	min. mm	max. mm	Preferred bore mm	max. mm	mm	mm	max. mm	max. mm	mm	mm	mm			
	rpm											kg		
222	3600		38	28	80	263	180	48	65	40	110	3 ⁺¹ ₋₁	2LC0900-0AB9	12
		>38 ²⁾	42 ²⁾											
297	3600		38		80	340	233	55	80	50	125	3 ⁺¹ ₋₁	2LC0900-1AB9	24
		>38	55	42	110									
342	3600		>55 ²⁾	60 ²⁾	110								2LC0900-2AB9	34
			55	48 + 55	110	400	271	60	88	55	140	3 ⁺¹ ₋₁		
395	3000		>55 ²⁾	60 ²⁾	120								2LC0900-3AB9	50
450	3000		65	60 + 65	140	448	299	90	90	90	225	4,5 ^{+1.5} _{-1.5}	2LC0900-4AB9	68
		>75	75	65 + 75	140	512	338	100	100	100	250	6 ⁺² ₋₃		

Configurable variants ¹⁾

- ØD2 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C

Ordering example

- Motor 45 kW, $P_{eff} = 42$ kW, $n_1 = 2950$ rpm
- FLUDEX FAE coupling size 342
- Hollow shaft: Bore ØD1 = 55H7 mm with keyway to DIN 6885/1 and retaining screw
- Part 4: Bore ØD2 = 60H7 mm with keyway to DIN 6885/1 and set screw
- with micro-balancing (high speed)
- with electronic operation monitoring
- seal set NBR
- Delivery without oil filling, no oil filling quantity specification

Article no. with EOC system:

2LC0900-2AB99-0AA0-Z L1D+M1E+F04+F26+W03+Y95

Plain text to Y95: G=6.3;n=3000rpm

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

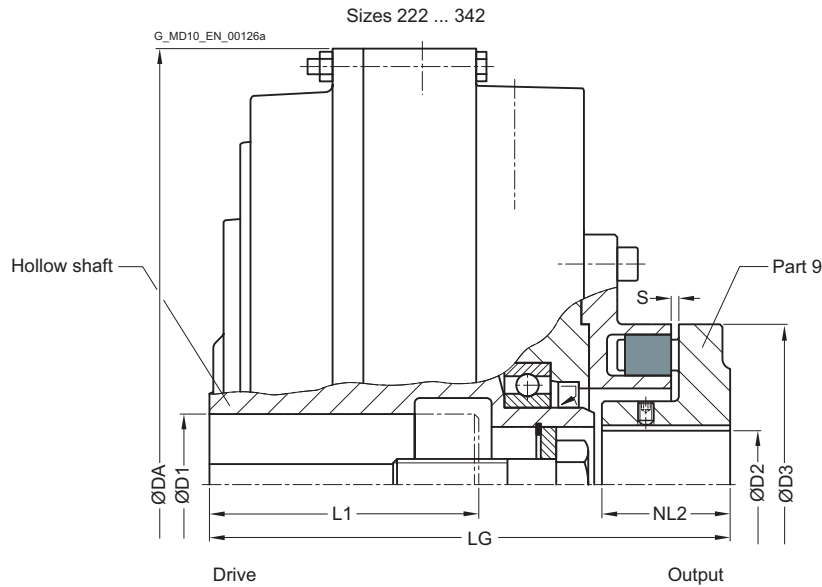
²⁾ Version with flat groove as per DIN 6885/3.

↗ For online configuration on [flender.com](https://www.flender.com), click on the item no.

TYPE FAM

with N-EUPEX M add-on coupling

Enables a short fitting length.



Size	Maximum speed n_{Kmax} rpm	FLUDEX coupling						N-EUPEX M add-on coupling				Article no. ¹⁾	Weight <i>m</i> kg
		D1 Keyway to DIN 6885			L1	DA	LG	D2	NL2	Size D3	S		
		min. mm	max. mm	Preferred bore mm	max. mm	mm	mm	max. mm	mm	mm	mm		
222	3600	>38 ²⁾	38 42 ²⁾	28	80	263	150	38	36	110	3 ⁺¹ ₋₁	2LC0900-0AH9	12
297	3600	>38	38		80								
		>55 ²⁾	55 60 ²⁾	42	110	340	203	48	50	125	3 ⁺¹ ₋₁	2LC0900-1AH9	24
342	3600	>55 ²⁾	55	48 + 55	110								
		>55 ²⁾	60 ²⁾		120	400	238	52	55	140	3 ⁺¹ ₋₁	2LC0900-2AH9	34

Configurable variants ¹⁾

- ØD2 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on flender.com.

²⁾ Version with flat groove as per DIN 6885/3.

↗ For online configuration on flender.com, click on the item no.

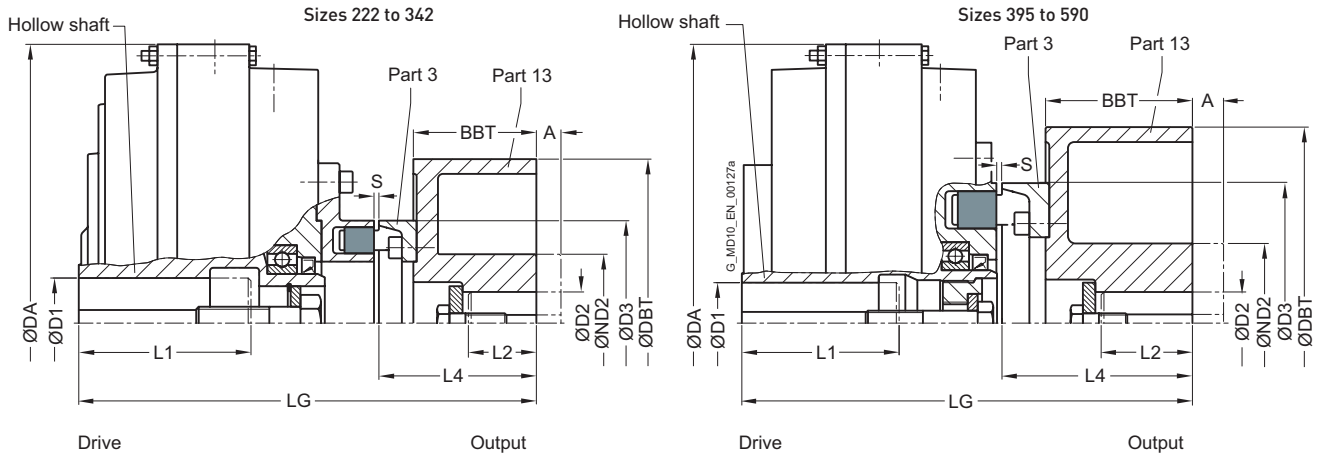
Ordering example

- Motor 22 kW, $P_{eff} = 20$ kW, $n_1 = 1470$ rpm
- FLUDEX FAM coupling size 342
- Hollow shaft: Bore ØD1 = 40H7 mm with keyway to DIN 6885/1 and retaining screw
- Part 9: Bore ØD2 = 48H7 mm with keyway to DIN 6885/1 and set screw
- Delivery without oil filling, no oil filling quantity specification

Article no. with drive via housing:
2LC0900-2AH99-0AA0-Z L0W+M1B+F23

TYPE FADB

with N-EUPEX D add-on coupling and brake drum



Size	Maximum speed n_{Kmax} rpm	FLUDEX coupling					N-EUPEX D add-on coupling			Brake drum (Part 13)					↗ Article no. ¹⁾
------	--	-----------------	--	--	--	--	---------------------------	--	--	----------------------	--	--	--	--	---

Configurable variants ¹⁾

- ØD2 Without finished bore
With finished bore
- Part 13 Standard brake drum
Long brake drum
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling, without hub prolongations "A" but with set screw
- L2 denotes the shaft insertion depth.
In the case of shaft ends deviating from DIN 748/1 long, the insertion depth must be specified in plain text with "Y29"
- Delivery with oil filling only above -20 °C

Ordering example

- Motor 30 kW, $P_{eff} = 22$ kW, $n_1 = 1470$ rpm
- FLUDEX FADB coupling size 342, standard type
- Hollow shaft: Bore ØD1 = 55H7 mm with keyway to DIN 6885/1 and retaining screw
- Brake drum (Part 13): Bore ØD2 = 50H7 mm with keyway to DIN 6885/1 and set screw.
- shaft end insertion depth L2 = 90 mm
- Delivery without oil filling, no oil filling quantity specification

Article no. Part 13 Standard brake drum:

2LC0900-2AC99-0AA0-Z L1D+M1C+Y29
Plain text to Y29: 90 mm

Article no. Part 13 Long brake drum:

2LC0900-2AC99-0BA0-Z L1D+M1C+Y29
Plain text to Y29: 90 mm

²⁾ Version with flat groove as per DIN 6885/3.

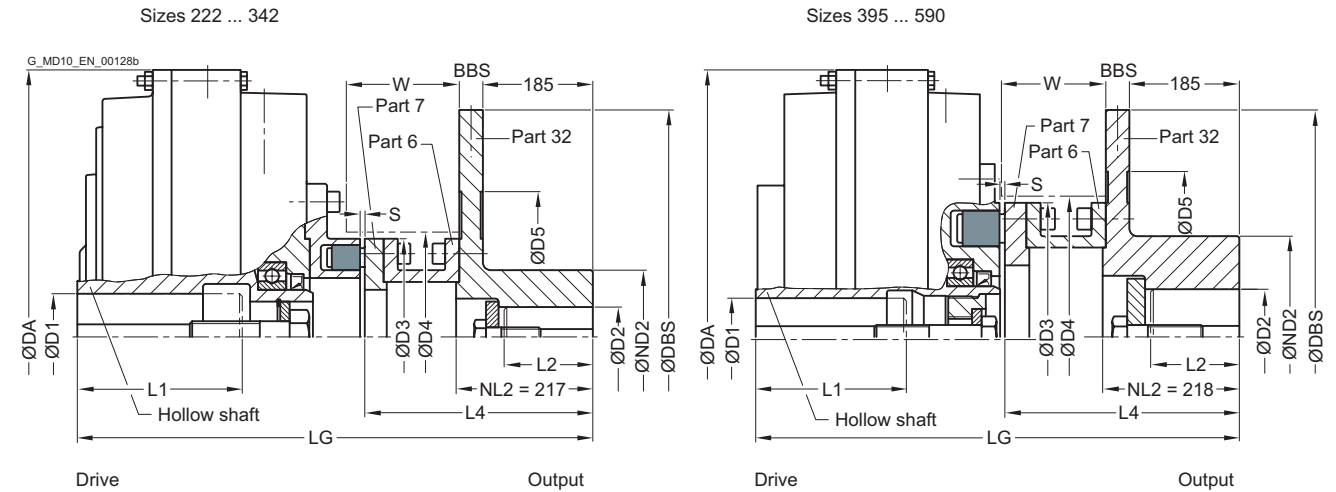
³⁾ ND2 = 128 for A = 0
ND2 = 100 for hub prolongations A = 50

➤ For online configuration on [flender.com](https://www.flender.com), click on the item no.

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

TYPE FADS SB

with N-EUPEX D add-on coupling and brake disk for stopping brakes



Size	Maximum speed n_{Kmax}	FLUDEX coupling					N-EUPEX D add-on coupling			Brake disk (part 32) ²⁾					Space dimensions		⌈ Article no. ¹⁾	Weight
		D1 Keyway DIN 6885		L1 max. mm	DA mm	LG mm	Size D3 mm	S mm	L4 mm	D2 max. mm	ND2 mm	DBS mm	BBS mm	D5 mm	D4 mm	W mm		
	min. mm	max. mm																
222	3600		38	80	263	494	110	5 ⁺¹	352	42	100	315	30	165	115	149	2LC0900-0AD9	35
			>38 ³⁾ 42 ³⁾															
			38	80														
297	3600		>38	110	340	537	125	5 ⁺¹	352	60	120	355	30	205	130	155	2LC0900-1AD9	68
			>55 ³⁾ 60 ³⁾	110														
342	3300		55	110			140	5 ⁺¹	352	60	120	400	30	250	145	155	2LC0900-2AD9	83
			>55 ³⁾ 60 ³⁾	120	400	570												
395	3000		65	140	448	602	225	6 ⁺¹	391.5	80	150	450	30	300	230	182	2LC0900-3AD9	102
			75	140														
450	2300		>75	170	512	630.5	250	8 ⁺¹	390.5	90	160	560	30	370	260	182	2LC0900-4AD9	141
			80	170														
516	2100		55	140			315	8 ⁺¹	430.5	100	160	630	30	440	325	222	2LC0900-5AD9	199
			>55	170	584	706.5												
			75	140														
590	2000		>75	170	662	741.5	315	8 ⁺¹	430.5	100	160	630	30	440	325	222	2LC0900-6AD9	224
			>95	210														
			100	210														

Configurable variants ¹⁾

- ØD2 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- L2 denotes the shaft insertion depth.
In the case of shaft ends deviating from DIN 748/1 long, the insertion depth must be specified in plain text with "Y29"
- Delivery with oil filling only above -20 °C

Ordering example

- Motor 90 kW, $P_{eff} = 75$ kW, $n_1 = 1470$ rpm
- FLUDEX FADS SB coupling size 450
- Hollow shaft: Bore ØD1 = 75H7 mm with keyway to DIN 6885/1 and retaining screw
- Brake disk (part 32): Bore ØD2 = 80H7 mm with keyway to DIN 6885/1 and retaining screw
- with preservation suitable for indoor storage
- shaft end insertion depth L2 = 90 mm
- Delivery without oil filling, no oil filling quantity specification

Article no. with preservation 24 months:

2LC0900-4AD99-0AA0-Z L1H+M1J+B28+Y29

Plain text to Y29: L2 = 90 mm

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on flender.com.

²⁾ Hub shortening possible, clearly specify NL2 size

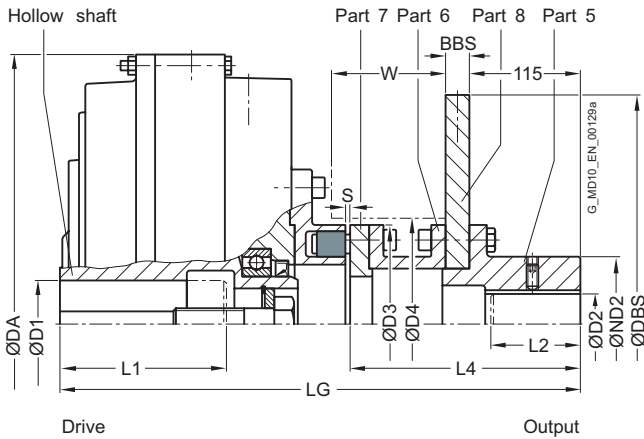
³⁾ Version with flat groove as per DIN 6885/3.

➤ For online configuration on flender.com, click on the item no.

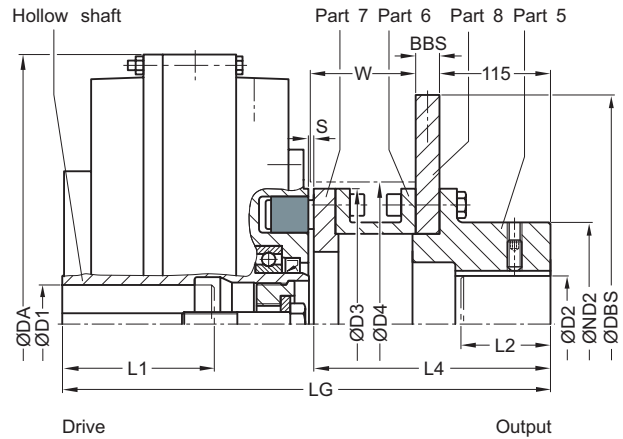
TYPE FADS HB

with N-EUPEX D add-on coupling and brake disk for blocking brakes

Sizes 222 ... 342



Sizes 395 ... 590



Size	Maximum speed n_{Kmax} rpm	FLUDEX coupling					N-EUPEX D add-on coupling			Brake disk (part 5/8)				Space dimensions		Article no. ¹⁾	Weight <i>m</i> kg
		D1 Keyway DIN 6885		L1 max. mm	DA mm	LG mm	Size D3 mm	S mm	L4 mm	D2 max. mm	ND2 mm	DBS mm	BBS mm	D4 mm	W mm		
		min. mm	max. mm														
222	3600	<div><div>38</div><div>>38²⁾</div><div>42²⁾</div></div>	80	263	366.5	110	5 ⁺¹	224.5	42	70	250	12.5	115	109	2LC0900-0AE9	22	
297	3600	<div><div>38</div><div>>38</div><div>>55²⁾</div></div>	<div><div>80</div><div>110</div><div>110</div></div>	340	409.5	125	5 ⁺¹	224.5	60	85	250	12.5	130	115	2LC0900-1AE9	33	
		<div><div>55</div><div>60²⁾</div></div>															
342	3600	<div><div>55</div><div>>55²⁾</div><div>60²⁾</div></div>	<div><div>110</div><div>120</div></div>	400	442.5	140	5 ⁺¹	224.5	60	90	250	12.5	145	115	2LC0900-2AE9	45	
395	3000	<div><div>65</div><div>75</div></div>	<div><div>140</div><div>140</div></div>	448	478	225	6 ⁺¹	267.5	80	150	355	16	230	142	2LC0900-3AE9	80	
450	2750	<div><div>80</div><div>>75</div></div>	<div><div>170</div><div>170</div></div>	512	546.5	250	8 ⁺¹	306.5	90	160	355	16	260	182	2LC0900-4AE9	101	
516	2150	<div><div>55</div><div>>55</div></div>	<div><div>140</div><div>170</div></div>	584	566.5	315	8 ⁺¹	290.5	100	160	450	16	325	166	2LC0900-5AE9	154	
		<div><div>90</div><div>75</div></div>															
590	2000	<div><div>95</div><div>>75</div><div>>95</div></div>	<div><div>170</div><div>170</div><div>210</div></div>	662	601.5	315	8 ⁺¹	290.5	100	160	450	16	325	166	2LC0900-6AE9	179	
		<div><div>100</div></div>															

Configurable variants¹⁾

- ØD2 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- L2 denotes the shaft insertion depth.
In the case of shaft ends deviating from DIN 748/1 long, the insertion depth must be specified in plain text with "Y29"
- Delivery with oil filling only above -20 °C

Ordering example

- Motor 160 kW, $P_{eff} = 132$ kW, $n_1 = 2950$ rpm
- FLUDEX FADS HB coupling size 395
- Hollow shaft: Bore ØD1 = 65H7 mm with keyway to DIN 6885/1 and retaining screw
- Part 5: Bore ØD2 = 80H7 mm with keyway to DIN 6885/1 and set screw
- Delivery without oil filling, no oil filling quantity specification

Article no.: 2LC0900-3AE99-0AA0-Z L1F+M1J+W03+Y95

Plain text to Y95: G=6.3;n=3000rpm

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

²⁾ Version with flat groove as per DIN 6885/3.

For online configuration on [flender.com](https://www.flender.com), click on the item no.

OIL FILLING QUANTITIES FOR FA SERIES

This assignment is valid for a maximum starting torque $T_{\max} = 2.0 \cdot T_{\text{eff}}$ and mineral oils with a viscosity of VG 22/VG 32, with drive via the hollow shaft.

If other operating fluids are used, or with drive via the housing or $T_{\max} \neq 2.0 \cdot T_{\text{eff}}$, changed filling quantities must be observed!

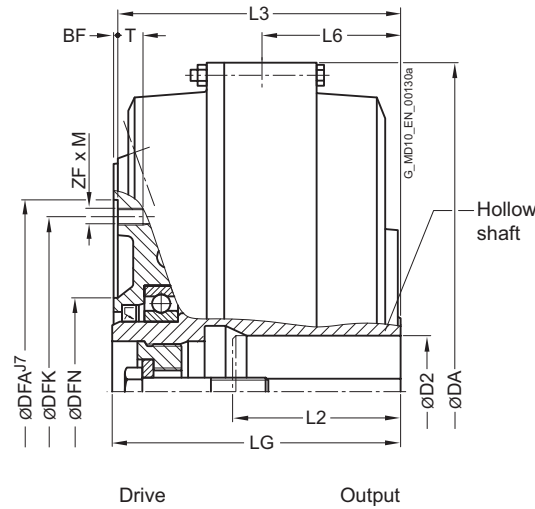
Sizes 222, 342, 450 and 590										
P_{eff} kW	Speed in rpm									
	600	740	890	980	1180	1470	1770	2300	2950	3550
Oil filling quantity in l										
0.55	4.3		1.4	1.3	1.1					
0.75	4.7		1.5	1.4	1.2					
1.1	5.1	4.4	1.55	1.55	1.4	1.1				
2.2	6.2	5.2	4.5	4.2	1.55	1.4	1.2			
3	9.5	5.6	4.9	4.6	1.55	1.5	1.3	1		
4	10.2	6.1	5.3	4.9	4.3	1.55	1.4	1.1		
5.5	11	9.4	5.7	5.3	4.6	1.55	1.5	1.2	1	
7.5	12	10.2	6.2	5.8	5	4.3	1.55	1.3	1.1	
11	13.4	11.2	9.7	6.4	5.5	4.7	4.1	1.5	1.2	1
15	24.8	12.2	10.5	9.8	6	5	4.4	1.55	1.3	1.1
18	25.9	12.9	11	10.3	6.3	5.3	4.6	3.9	1.4	1.2
22	27.3	23.3	11.6	10.8	9.4	5.5	4.8	4	1.4	1.25
30	29.7	25.2	12.7	11.7	10.1	6	5.2	4.3	3.7	1.4
37	31.5	26.5	23.1	12.4	10.7	9.1	5.5	4.5	3.9	1.5
45		27.9	24.2	22.6	11.2	9.5	5.8	4.7	4	3.5
55		29.5	25.5	23.7	11.9	10	8.8	5	4.2	3.7
75			27.6	25.7	22.3	10.8	9.4	5.4	4.5	3.9
90			29	26.9	23.4	11.3	9.8	8.1	4.7	4.1
110				28.3	24.5	12	10.4	8.6	4.9	4.3
132				29.7	25.7	21.9	10.8	8.9	7.6	4.5
160					27	22.9	20	9.3	7.8	
180					27.8	23.5	20.6	10	8	
200					28.6	24.2	21.2	10.9	8.2	
225						24.9	21.8	11.5	8.5	
250						25.6	22.3		9.6	
280						26.3	22.9		9.9	
315						27.1	23.6		10.5	
350							24.2			
400							26.4			

Sizes 297, 395 and 516

P_{eff} kW	Speed in rpm										Size
	600	740	890	980	1180	1470	1770	2300	2950	3550	
	Oil filling quantity in l										
0.55	3.2	2.8									297
0.75	3.5	3	2.6								
1.1	3.7	3.3	2.9	2.7							
2.2	7.3	3.7	3.4	3.2	2.8						
3	7.9	6.8	3.7	3.4	3	2.5					
4	8.5	7.3	3.7	3.7	3.2	2.7					
5.5	9.4	7.9	6.8	3.7	3.5	2.9	2.6				
7.5	17	8.5	7.4	6.9	3.7	3.2	2.8	2.4			
11	18.7	16	8.1	7.6	6.6	3.5	3	2.5			
15	20.3	17.3	8.9	8.2	7.1	3.7	3.3	2.7			
18	21.4	18	15.7	8.6	7.4	3.7	3.4	2.8	2.4		
22		19	16.5	15.4	7.8	6.6	3.6	3	2.5		
30		20.6	17.8	16.6	8.5	7.2	6.3	3.2	2.7	2.4	
37			18.8	17.5	15.2	7.6	6.6	3.4	2.8	2.5	
45			19.8	18.4	16	7.9	6.9	3.6	2.9	2.6	
55			21	19.3	16.8	8.4	7.3	6	3.1	2.7	
75				21.1	18.1	15.4	7.9	6.5	5.3	2.9	
90					19	16.1	14.1	6.7	5.6	3	
110					20.1	16.9	14.8	7.1	5.9		
132						17.7	15.4	7.9	6.2		
160						18.6	16.2	13.4	6.8		
180						19.2	16.7	13.8	7.2		
200							17.1	14.1			
225							17.6	14.6			
250							18.1	14.9			
280								15.3			
315								15.8			
350								17.1			

TYPE FGO

Basic coupling of the FG series with connecting flange



Size	Maximum speed n_{Kmax} rpm	Installation dimensions							Flange connection dimensions						Tightening torque for screws in thread ZF · M T_A Nm	Article no. ¹⁾	Weight m kg
		D2 Keyway DIN 6885		L2	DA	L3	L6	LG	DFN	DFA	BF	DFK	ZF · M	T			
		min. mm	max. mm	max. mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm			
370	3600		75	140	420	182	84	185	126	220	3	200	8 · M10	15	31	2LC0900-8CE09-0AA0	34
425	3000		80	140	470	202	99	205	134	274	3	250	8 · M12	18	54	2LC0901-0CE09-0AA0	45
490	2600		55	110	555	232	105	236	150	314	4	282	8 · M16	24	135	2LC0901-1CE09-0AA0	75
		>55	75	140													
		>75	100	170													
565	2300		110	170	630	250	123	254	166	344	4	312	8 · M16	24	135	2LC0901-2CE09-0AA0	95
655	2000		130	210	736	296	145	301	180	430	5	390	8 · M20	25	260	2LC0901-3CE09-0AA0	142
755	1800		150	240	840	341	176	346	226	480	5	440	10 · M20	25	260	2LC0901-4CE09-0AA0	208
887	1500		150	275	990	391	217	396	249	520	5	480	10 · M20	25	260	2LC0901-5CE09-0AA0	362

Configurable variants ¹⁾

- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C

Ordering example

- Motor 132 kW, $P_{eff} = 110$ kW, $n_1 = 1470$ rpm
- FLUDEX FGO coupling size 490
- Hollow shaft: Bore ØD2 = 70H7 mm with keyway to DIN 6885/1 and retaining screw
- Delivery with oil filling: 14.4 l (see Page 13/9)

Article no.: 2LC0901-1CE09-0AA0-Z L1G+F16+Y90

Plain text to Y90: 14.4 l

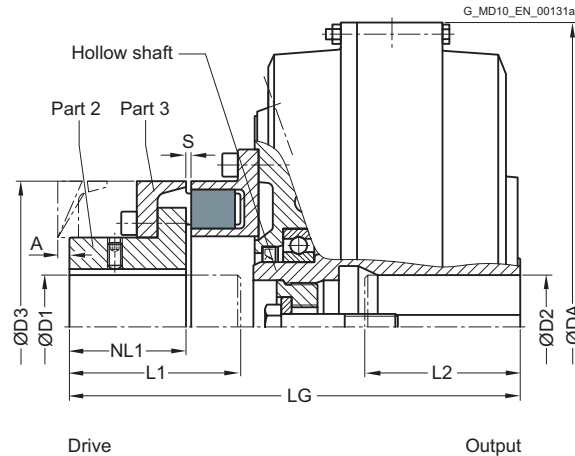
¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on flender.com.

↗ For online configuration on flender.com, click on the item no.

TYPE FGD

with N-EUPEX D add-on coupling

Enables change of flexible elements without axial displacement of the shafts if the space "A" is provided.



Size	Maximum speed n_{Kmax}	FLUDEX coupling					N-EUPEX D add-on coupling						↗ Article no. ¹⁾	Weight m
		D2 Keyway DIN 6885		L2 max. mm	DA mm	LG mm	D1 max. mm	L1 max. mm	NL1 mm	Size D3 mm	S mm	A mm		
	min. mm	max. mm												
	rpm													kg
370	3600		75	140	420	298	65	110	70	180	4 ⁺² ₋₂	10	2LC0900-8CA	44
425	3000		80	140	470	348	85	140	90	225	4 ⁺² ₋₂	9	2LC0901-0CA	66
490	2600		55	110			95	155	100	250	5 ⁺³ ₋₂	11	2LC0901-1CA	105
		>55	75	140	555	397								
		>75	100	170										
565	2300		110	170	630	430	105	170	110	280	5 ⁺³ ₋₂	5	2LC0901-2CA	134
655	2000		130	210	736	515	140	210	140	350	5 ⁺³ ₋₂	0	2LC0901-3CA	217
755	1800		150	240	840	584	150	230	160	400	5 ⁺³ ₋₂	0	2LC0901-4CA	307
887	1500		150	275	990	665	160	260	180	440	8 ⁺² ₋₃	0	2LC0901-5CA	491

Configurable variants ¹⁾

- ØD1 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C

Ordering example

- Motor 350 kW, $P_{eff} = 315$ kW, $n_1 = 1470$ rpm
- FLUDEX FGD coupling size 655, standard type
- Hollow shaft: Bore ØD2 = 120H7 mm with keyway to DIN 6885/1 and retaining screw
- Part 2: without finished bore (bore ØD1 = 110 mm or ØD1 = 130 mm) or with finished bore (bore ØD1 = 140H7 mm) with keyway to DIN 6885/1 and set screw
- Delivery without oil filling, no oil filling quantity specification

Article no. without finished bore for ØD1 = 110 mm:
2LC0901-3CA19-0AA0-Z L1S

Article no. without finished bore for ØD1 = 130 mm:
2LC0901-3CA29-0AA0-Z L1S

Article no. with finished bore for ØD1 = 140H7 mm:
2LC0901-3CA99-0AA0-Z L1S+M1V

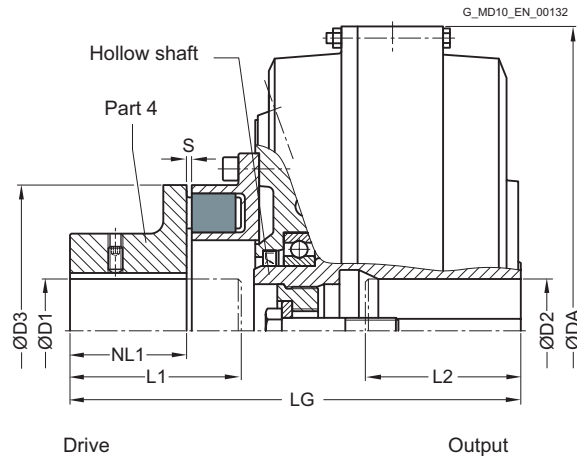
¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

➤ For online configuration on [flender.com](https://www.flender.com), click on the item no.

TYPE FGE

with N-EUPEX E add-on coupling

Enables larger bores on the drive side.



Size	Maximum speed n_{Kmax} rpm	FLUDEX coupling					N-EUPEX E add-on coupling					Article no. ¹⁾	Weight <i>m</i> kg
		D2 Keyway DIN 6885		L2	DA	LG	D1	L1	NL1	Size D3	S		
		min. mm	max. mm	max. mm	mm	mm	max. mm	max. mm	mm	mm	mm		
370	3600		75	140	420	298	75	110	70	180	4 ⁺² ₋₂	2LC0900-8CB	44
425	3000		80	140	470	348	90	140	90	225	4 ⁺² ₋₂	2LC0901-0CB	64
490	2600		55	110									
		>55	75	140	555	397	100	155	100	250	5 ⁺³ ₋₂	2LC0901-1CB	101
		>75	100	170									
565	2300		110	170	630	430	110	170	110	280	5 ⁺³ ₋₂	2LC0901-2CB	129

Configurable variants ¹⁾

- ØD1 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C

Ordering example

- Motor 160 kW, $P_{eff} = 145$ kW, $n_1 = 1485$ rpm
- FLUDEX FGE coupling size 490, vertical version, motor overhead
- Hollow shaft: Bore ØD2 = 60H7 with keyway to DIN 6885/1 and retaining screw
- Part 4: Bore ØD2 = 80H7 with keyway to DIN 6885/1 and set screw
- with seal set FPM
- Delivery with oil filling with specification of oil filling quantity

Article no.: 2LC0901-1CB99-0AA0-Z L1J+M1E+F08+F13+F16+Y90
Plain text to Y90: 15.4 l

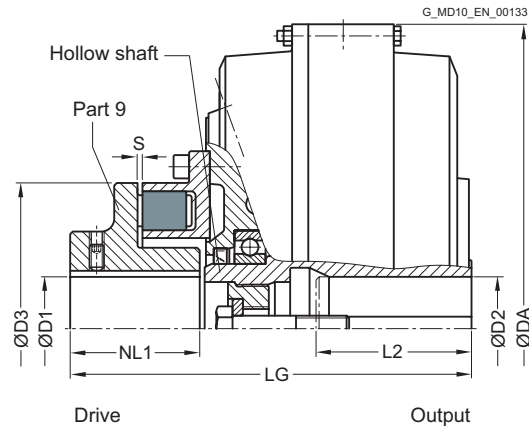
¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on flender.com.

↗ For online configuration on flender.com, click on the item no.

TYPE FGM

with N-EUPEX M add-on coupling

Enables a short fitting length.



Size	Maximum speed	FLUDEX coupling					N-EUPEX M add-on coupling					➤ Article no. ¹⁾	Weight	
	n_{Kmax}	D2 Keyway DIN 6885		L2	DA	LG	D1	L1	NL1	Size D3	S			m
	rpm	min. mm	max. mm	max. mm	mm	mm	max. mm	max. mm	mm	mm	mm			kg
370	3600		75	140	420	274	70	80	80	180	4^{+2}_{-2}	2LC0900-8CD	44	
425	3000		80	140	470	310	85	100	100	225	4^{+2}_{-2}	2LC0901-0CD	64	
490	2600		55	110	555	350	90	105	105	250	5^{+3}_{-2}	2LC0901-1CD	101	
		>55	75	140										
		>75	100	170										
565	2300		110	170	630	380	100	120	120	280	5^{+3}_{-2}	2LC0901-2CD	128	

Configurable variants ¹⁾

- ØD1 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C

Ordering example

- Motor 45 kW, $P_{eff} = 37$ kW, $n_1 = 1470$ rpm
- FLUDEX FGM coupling size 370
- Hollow shaft: Bore ØD2 = 60H7 mm with keyway to DIN 6885/1 and retaining screw
- Part 4: Bore ØD1 = 60H7 mm with keyway to DIN 6885/1 and set screw.
- Delivery without oil filling, no oil filling quantity specification

Article no. with a keyway: 2LC0900-8CD99-0AA0-Z L1E+M1E

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

➤ For online configuration on [flender.com](https://www.flender.com), click on the item no.

OIL FILLING QUANTITIES FOR FG SERIES

This assignment is valid for a maximum starting torque $T_{\max} = 2.0 \cdot T_{\text{eff}}$ and mineral oils with a viscosity of VG 22/VG 32.

If other operating fluids are used, or with drive via the hollow shaft or $T_{\max} \neq 2.0 \cdot T_{\text{eff}}$ or $T_{\max} \neq 1.5 \cdot T_{\text{eff}}$, changed filling quantities must be observed!

Sizes 370, 490, 655 and 887

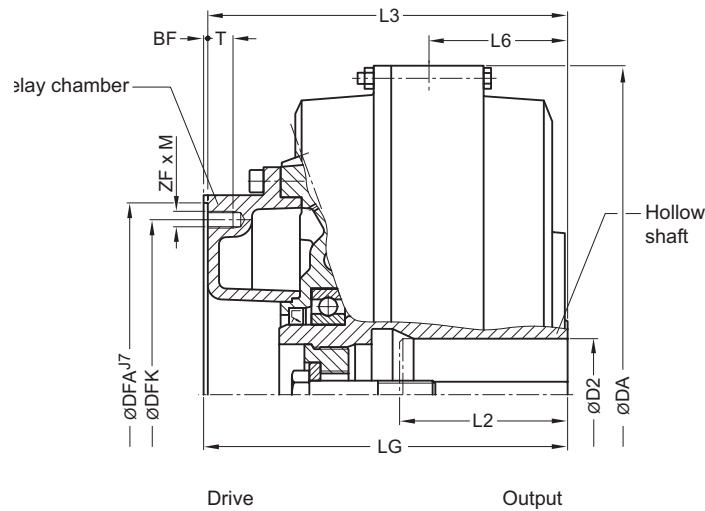
P_{eff} kW	Speed in rpm										Size	
	600	740	890	980	1180	1470	1770	2300	2950	3550		
Oil filling quantity in l												
1.1	5.2											
2.2	6.4											
3	7	5.9										
4	7.2	6.4	5.4									
5.5	13	6.9	6	5.4								
7.5	14.4	7.2	6.5	6	5.1							
11	15.9	13.3	7.2	6.7	5.7							
15	17	14.7	12.4	7.2	6.2							
18	28.9	15.4	13.1	12	6.5	5.4						
22	31.1	16.2	14	12.7	6.9	5.7	4.7					
30	35.9	17	15.2	14.1	11.8	6.3	5.3					
37	37.9	29.9	16.1	14.9	12.6	6.6	5.7					
45	39.7	32.3	17	15.7	13.4	7	6					
55	40	35.5	28.4	16.6	14.3	11.6	6.4	5				
75	70.5	38.7	31.7	28.5	15.5	12.7	6.9	5.5	4.3			
90	74.7	40	34.4	30.4	16.3	13.5	11.4	5.9	4.6			
110	81	40	37	33	27.3	14.4	12.1	6.2	4.9	4	370	
132	88.2	69.3	38.8	36	28.6	15.1	12.8	6.5	5.2	4.4		
160	93.5	73.3	40	37.8	30.6	15.9	13.6	10.6	5.5	4.7		
200	98	79.8	67	39.9	33.7	26.9	14.6	11.4	6	5		
250	98	88.7	70.9	40	36.8	28.4	15.4	12.2	5.4			
315		94.7	76.6	69.8	39	30.8	26.2	13.1				490
350		97.2	80	71.8	39.9	32.2	26.9	13.6				
400		98	85.1	75.2	64.5	34.2	27.8					655
500			92.4	82.5	68.1	37.1	29.7					
600			96.9	90.1	71.5	38.8	31.9					
750			98	95.3	77.3	64	35.4					
900				98	83.7	67						
1100					91.1	70.4						887
1300					95.2	74.2						
1600						80.6						

Sizes 425, 565 and 755

P_{eff} kW	Speed in rpm									Size
	600	740	890	980	1180	1470	1770	2300	2950	
	Oil filling quantity in l									
2.2	7.8									425
3	8.7									
4	9.5	7.8								
5.5	10.3	8.7								
7.5	10.9	9.5	7.9							
11	19.9	10.5	9.1	8.2						
15	22	10.9	9.8	9.1						
18	23.2	19.1	10.3	9.6	8					
22	24.3	20.3	10.9	10.1	8.6					
30	40.2	22.4	18.9	10.9	9.5					
37	42.6	23.7	20.1	18.5	10	8.2				
45	45.8	24.9	21.5	19.5	10.5	8.8				
55	50.1	25.5	22.8	20.8	17.5	9.3	7.8			
75	55.6	43.8	24.6	22.9	19.3	10.1	8.6			
90	58.1	47.1	25.5	23.9	20.4	10.7	9.2	7.2		
110		51.7	41.5	25.5	21.8	17.7	9.7	7.6		
132		54.7	44	40.3	23	18.7	10.1	6.3	425	
160		57.4	47.5	42.5	24	19.8	16.7	6.8		
200		59	52.9	46.2	25.5	21.4	17.9	7.3		
250			56	51.2	41.2	22.8	19.2	7.8		
315			59	55.1	44.4	24.2	20.6	8.3		
350				56.6	46.2	38	21.4	16.7	565	
400				58.4	49	39.3	22.2	17.4		
500					53.7	41.6	36.3	18.7		
600					56.4	44.1	37.9		755	
750						48.4	40			
900						52.8	42			
1100							45			

TYPE FVO

Delay chamber coupling of the FV series with connecting flange.



Size	Maximum speed	Installation dimensions							Flange connection dimensions					Tightening torque for screws in thread ZF · M T_A	Article no. ¹⁾	Weight <i>m</i>
	n_{Kmax}	D2 Keyway DIN 6885		L2	DA	L3	L6	L8	DFA	BF	DFK	ZF · M	T			
	rpm	min. mm	max. mm	max. mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm		kg
370	3600		75	140	420	225	84	228	220	3	200	8 · M10	15	31	2LC0900-8ED09-0AA0	37
425	3000		80	140	470	257	99	260	274	3	250	8 · M12	18	54	2LC0901-0ED09-0AA0	47
490	2600		55	110	555	297	105	301	314	4	282	8 · M16	24	135	2LC0901-1ED09-0AA0	80
		>55	75	140												
		>75	100	170												
565	2300		110	170	630	333	123	337	344	4	312	8 · M16	24	135	2LC0901-2ED09-0AA0	103
655	2000		130	210	736	384	145	389	430	5	390	8 · M20	25	260	2LC0901-3ED09-0AA0	154
755	1800		150	240	840	440	176	445	480	5	440	10 · M20	25	260	2LC0901-4ED09-0AA0	224
887	1500		150	275	990	493	217	498	520	5	480	10 · M20	25	260	2LC0901-5ED09-0AA0	385

Configurable variants ¹⁾

- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C

Ordering example

- Motor 132 kW, $P_{eff} = 110$ kW, $n_1 = 1470$ rpm
- FLUDEX FVO coupling size 490
- Hollow shaft: Bore ØD2 = 70H7 mm with keyway to DIN 6885/1 and retaining screw
- Delivery with oil filling: 15.2 l (see Page 13/9)

Article no.: 2LC0901-1ED09-0AA0-Z L1G+F16+Y90

Plain text to Y90: 15.2 l

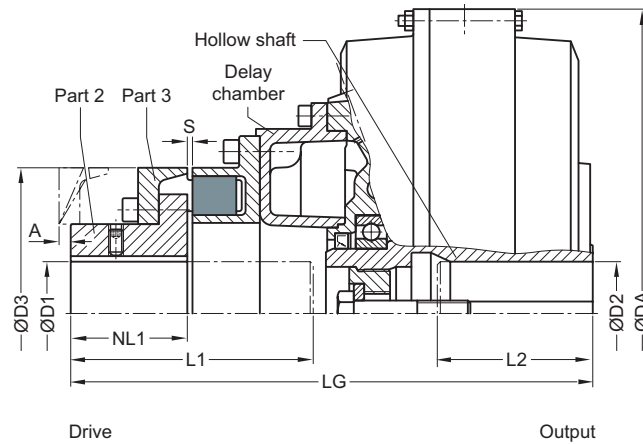
¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on flender.com.

↗ For online configuration on flender.com, click on the item no.

TYPE FVD

with N-EUPEX D add-on coupling

Enables change of flexible elements without axial displacement of the shafts if the space "A" is provided.



Size	Maximum speed	FLUDEX coupling					N-EUPEX D add-on coupling						➤ Article no. ¹⁾	Weight
	<i>n</i> _{Kmax}	D2 Keyway DIN 6885		L2	DA	LG	D1	L1	NL1	Size D3	S	A		<i>m</i>
	rpm	min. mm	max. mm	max. mm	mm	mm	max. mm	max. mm	mm	mm	mm	mm		kg
370	3600		75	140	420	341	65	150	70	180	4 ⁺² ₋₂	10	2LC0900-8EA	47
425	3000		80	140	470	403	85	190	90	225	4 ⁺² ₋₂	9	2LC0901-0EA	68
490	2600		55	110	555	462	95	220	100	250	5 ⁺³ ₋₂	11	2LC0901-1EA	166
		>55	75	140										
		>75	100	170										
565	2300		110	170	630	513	105	250	110	280	5 ⁺³ ₋₂	5	2LC0901-2EA	142
655	2000		130	210	736	603	140	295	140	350	5 ⁺³ ₋₂	0	2LC0901-3EA	229
755	1800		150	240	840	683	150	330	160	400	5 ⁺³ ₋₂	0	2LC0901-4EA	323
887	1500		150	275	990	767	160	365	180	440	8 ⁺² ₋₃	0	2LC0901-5EA	514

Configurable variants ¹⁾

- ØD1 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C

Ordering example

- Motor 630 kW, $P_{eff} = 500$ kW, $n_1 = 1770$ rpm
- FLUDEX FVD coupling size 655
- Hollow shaft: Bore ØD2 = 95H7 with keyway to DIN 6885/1 and retaining screw,
- Part 2: Bore ØD2 = 110H7 with keyway to DIN 6885/1 and set screw
- with seal set FPM
- Delivery without oil filling with oil filling quantity specification (see Page 13/9)

Article no.: 2LC0901-3EA99-0AA0-Z L1Q+M1M+F08+Y90

Plain text to Y90: 32.3 l

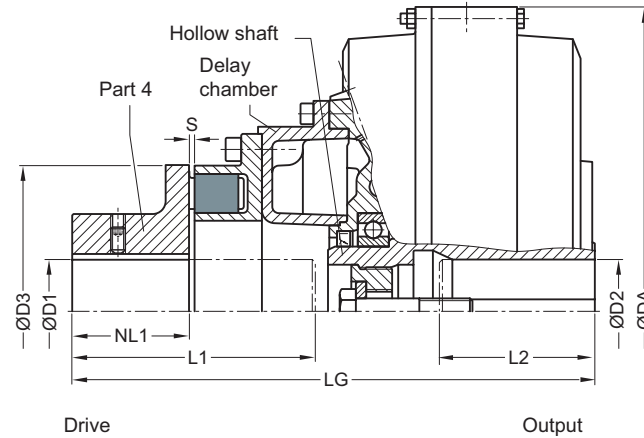
¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

↗ For online configuration on [flender.com](https://www.flender.com), click on the item no.

TYPE FVE

with N-EUPEX E add-on coupling

Enables larger bores on the drive side.



Size	Maximum speed n_{Kmax} rpm	FLUDEX coupling					N-EUPEX E add-on coupling					Article no. ¹⁾	Weight <i>m</i> kg
		D2 Keyway DIN 6885 min. mm	max. mm	L2 max. mm	DA mm	LG mm	D1 max. mm	L1 max. mm	NL1 mm	Size D3 mm	S mm		
370	3600		75	140	420	341	75	150	70	180	4 ⁺² ₋₂	2LC0900-8EB	47
425	3000		80	140	470	403	90	190	90	225	4 ⁺² ₋₂	2LC0901-0EB	66
490	2600		55	110	555	462	100	220	100	250	5 ⁺³ ₋₂	2LC0901-1EB	107
		>55	75	140									
		>75	100	170									
565	2300		110	170	630	513	110	250	110	280	5 ⁺³ ₋₂	2LC0901-2EB	137

Configurable variants ¹⁾

- ØD1 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

↗ For online configuration on [flender.com](https://www.flender.com), click on the item no.

Ordering example

- Motor 45 kW, $P_{eff} = 37$ kW, $n_1 = 1470$ rpm
- FLUDEX FVE coupling size 370
- Hollow shaft: Bore ØD2 = 60H7 mm with keyway to DIN 6885/1 and retaining screw
- Part 4: Bore ØD1 = 60H7 mm with keyway to DIN 6885/1 and set screw
- with electronic or mechanical operation monitoring, seal set NBR
- Delivery without oil filling, no oil filling quantity specification

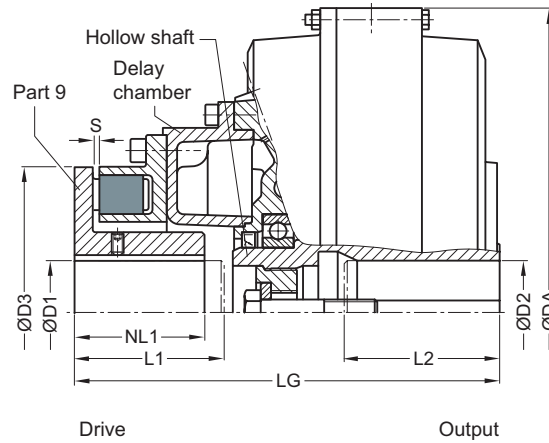
Article no, with 110 °C thermal switch:
2LC0900-8EB99-0AA0-Z L1E+M1E+F03

Article no. with 125 °C EOC transmitter:
2LC0900-8EB99-0AA0-Z L1E+M1E+F04

TYPE FVM

with N-EUPEX M add-on coupling

Enables a short fitting length.



Size	Maximum speed n_{Kmax} rpm	FLUDEX coupling					N-EUPEX M add-on coupling					Article no. ¹⁾	Weight m kg
		D2 Keyway DIN 6885 min. mm	max. mm	L2 max. mm	DA mm	LG mm	D1 max. mm	L1 max. mm	NL1 mm	Size D3	S		
370	3600		75	140	420	288	70	100	85	180	4 ⁺² ₋₂	2LC0900-8EC	46
425	3000		80	140	470	327	85	115	100	225	4 ⁺² ₋₂	2LC0901-0EC	65
490	2600		55	110									
		>55	75	140	555	382	90	140	110	250	5 ⁺³ ₋₂	2LC0901-1EC	104
565	2300		100	170									
		>75	110	170	630	425	100	165	130	280	5 ⁺³ ₋₂	2LC0901-2EC	135

Configurable variants ¹⁾

- ØD1 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C

Ordering example

- Motor 250 kW, $P_{eff} = 180$ kW, $n_1 = 1470$ rpm
- FLUDEX FVM coupling size 565
- Hollow shaft: Bore ØD2 = 75H7 with keyway to DIN 6885/1 and retaining screw
- Part 9: Bore ØD2 = 95H7 with keyway to DIN 6885/1 and set screw
- with seal set NBR
- thermal control unit for temperature monitoring
- Delivery without oil filling without oil filling quantity specification

Article no.: 2LC0901-2EC99-0AA0-Z L1M+M1H+F03+F25

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

➤ For online configuration on [flender.com](https://www.flender.com), click on the item no.

OIL FILLING QUANTITIES FOR FV SERIES

This assignment is valid for a maximum starting torque $T_{\max} = 1.5 \cdot T_{\text{eff}}$ and mineral oils with a viscosity of VG 22/VG 32.

If other operating fluids are used, or with drive via the hollow shaft or $T_{\max} \neq 2.0 \cdot T_{\text{eff}}$ or $T_{\max} \neq 1.5 \cdot T_{\text{eff}}$, changed filling quantities must be observed!

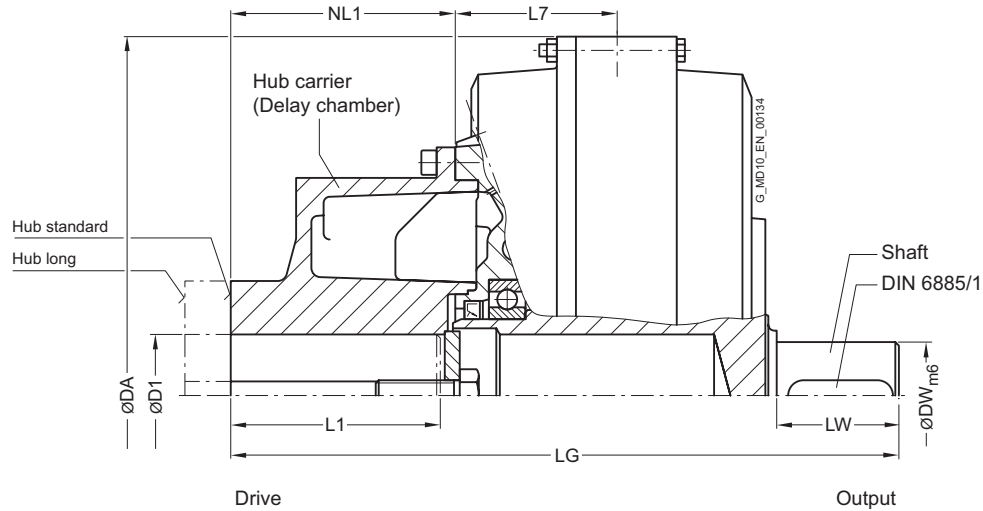
Sizes 370, 490, 655 and 887										
P_{eff}	Speed in rpm									
kW	600	740	890	980	1180	1470	1770	2300	2950	3550
	Oil filling quantity in l									
1.1	5.3									
2.2	6.7	5.5								
3	7.4	6.1	5							
4	8	6.6	5.6	5						
5.5	13.8	7.4	6.2	5.6						
7.5	15.2	8	6.8	6.2	5.1					
11	17.4	14.1	7.7	7.1	5.9					
15	18.5	15.6	13	7.7	6.5	5.2				
18	31.6	16.6	13.8	12.5	6.9	5.5				
22	33.2	17.7	14.8	13.4	7.3	5.9	4.8			
30	36.5	18.5	16.3	14.9	12.3	6.5	5.5			
37	39.9	32.4	17.5	15.9	13.3	7	5.9	4.2		
45	44	34	18.5	17	14.1	7.5	6.2	4.6		
55	44	36.2	31	18.1	15.1	12	6.7	5.1		
75	75.8	41.4	33.6	31.2	16.7	13.5	7.4	5.7	4.2	
90	80	44	35.4	32.7	17.7	14.3	11.6	6.1	4.5	
110	74.3	44	38.2	34.5	29.9	15.2	12.6	6.4	5	4.1
132	89.2	74.6	41.6	36.7	31.3	16.2	13.5	6.9	5.4	4.2
160	96.3	78.7	44	39.8	32.9	17.3	14.4	10.4	5.7	4.6
200	107	83.6	72.1	44	34.9	29.4	15.4	11.7	6.2	5.1
250	107	89.5	76.3	44	37.9	31.1	16.7	12.8		5.5
315		98.5	81.5	75.6	42.1	33	28.6	13.9		
350		103.6	83.7	77.7	44	33.9	29.5	14.4		
400		107	86.9	80.5	68.4	35.3	30.4			
500			94.5	85.3	73.8	38.4	32.3			
600			102.9	90.6	77.3	41.8	33.8			
750			107	99.6	81.9	67.8	36.2			
900				107	86	72.7				
1100					92.3	76.2				
1300					99.3	79.8				
1600						84				

Sizes 425, 565 and 755

P_{eff} kW	Speed in rpm									Size
	600	740	890	980	1180	1470	1770	2300	2950	
	Oil filling quantity in l									
2.2	8									425
3	9.1									
4	9.9	8.1								
5.5	11.1	9								
7.5	12	9.9	8.3	7.4						
11	21.4	11.3	9.4	8.6						
15	23.7	12	10.4	9.5	7.8					
18	25.2	20.5	11.1	10.1	8.4					
22	27	21.9	11.7	10.8	9					
30	43.2	24.2	20.1	11.8	9.9	7.9				
37	45.7	26	21.7	19.5	10.7	8.6	6.7			
45	48.3	27.7	23.1	21	11.3	9.2	7.5			
55	51.2	28	24.6	22.5	18.3	9.7	8.1			
75	58	46.8	27.4	24.8	20.7	10.8	9	6.5		
90	63.7	49.2	28	26.5	22	11.4	9.5	7.1		
110		52.3	44.5	28	23.4	18.7	10.2	7.8		
132		56.3	46.9	43.3	24.9	19.9	10.9	8.4	6.1	425
160		61.9	49.5	45.6	26.7	21.4	16.8	8.9	6.6	
200		65	53.2	48.6	41.7	23	18.9	9.6	7.3	
250			58.6	51.9	44.2	24.7	20.6	14.7	8	
315			65	57	47.3	26.8	22.3	16.1	8.7	
350				60	48.6	40.3	23	16.8		565
400				64.4	50.5	42.2	24	18.1		
500					54.7	44.6	37.9	19.9		
600					59.5	47.1	40	21.2		
750						50	42.9			755
900						53.2	45			
1100							47.7			

TYPE FNO

with large delay chamber and connecting shaft



Size	Maximum speed n_{Kmax} rpm	Hub carrier Hub	Installation dimensions							Connection dimensions		Article no. ¹⁾	Weight m kg
			D1 Keyway DIN 6885 min. mm	max. mm	L1 max. mm	NL1 mm	DA mm	L7 mm	LG mm	DW mm	LW mm		
370	3600	Standard	38	55	110	115	420	101	380	60	70	2LC0900-8GA	56
		Long	38	80	140	145	420	101	410	60	70	2LC0900-8GA	55
425	3000	Standard	42	75	140	147	470	106	437	70	80	2LC0901-0GA	77
		Long	42	100	170	177	470	106	467	70	80	2LC0901-0GA	77
490	2600	Standard	48	75	140	148	555	131	485	70	90	2LC0901-1GA	116
		Long	48	110	170	178	555	131	515	70	90	2LC0901-1GA	116
565	2300	Standard	65	95	170	178	630	131	543	90	100	2LC0901-2GA	158
		Long	65	120	210	218	630	131	583	90	100	2LC0901-2GA	160
655	2000	Standard	65	110	210	218	736	156	644	100	125	2LC0901-3GA	240
		Long	65	135	250	258	736	156	684	100	125	2LC0901-3GA	240
755	1800	Standard	65	120	210	219	840	170	705	110	140	2LC0901-4GA	321
		Long	65	150	250	259	840	170	745	110	140	2LC0901-4GA	318
887	1500	Standard	65	150	250	251	990	187	835	120	178	2LC0901-5GA	562
		Long	65	170	300	301	990	187	885	120	178	2LC0901-5GA	563

Configurable variants ¹⁾

- ØD1 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C
- For mass moments of inertia, centroidal distance Y and weight FY, see Page 13/18.

Ordering example

- Motor 110 kW, $P_{eff} = 90$ kW, $n_1 = 1470$ rpm, maximum output torque $T_{max} = 1.3 \cdot T_{eff}$
- FLUDEX FNO coupling size 425
- Hub carrier: Standard hub bore ØD1 = 75H7 mm with keyway to DIN 6885/1 and retaining screw
- Seal set FPM
- Specification of oil filling quantity: 12.4 l (see Page 13/9)

Article no. with 160 °C fuse:

2LC0901-1GA90-1AA0-Z L1H+Y90+F08

Plain text to Y90: 12.4 l

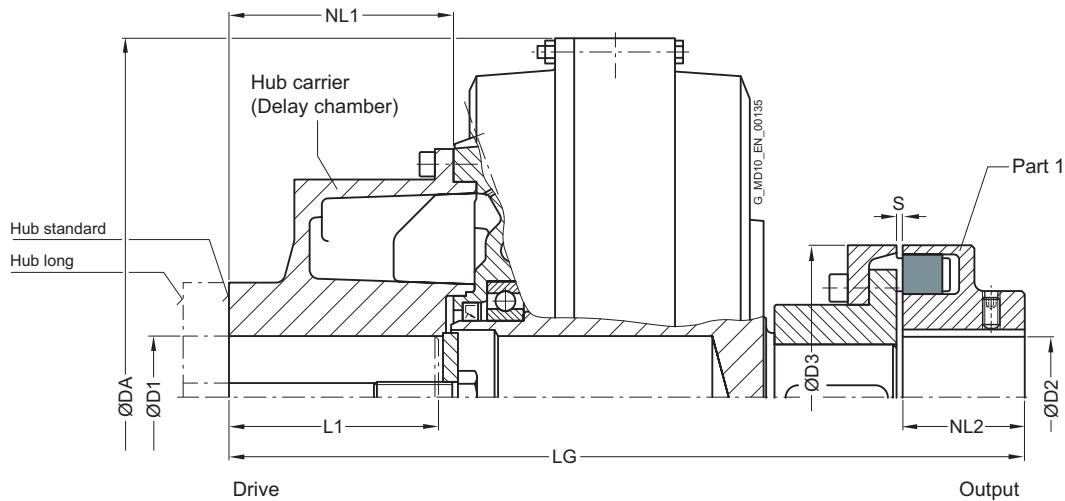
¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on flender.com.

➤ For online configuration on flender.com, click on the item no.

TYPE FNA

with large delay chamber and N-EUPEX A add-on coupling

Enables a short fitting length.



Size	Maximum speed n_{Kmax}	Hub carrier Hub	FLUDEX coupling						N-EUPEX A add-on coupling				↗ Article no. ¹⁾	Weight
			D1 Keyway DIN 6885		L1	NL1	DA	LG	D2	NL2	Size D3	S		<i>m</i>
	rpm	min. mm	max. mm	max. mm	mm	mm	mm	mm	max. mm	mm	mm	mm		kg
370	3600	Standard	38	55	110	115	420	454	75	70	180	4 ⁺² ₋₂	2LC0900-8GB	68
		Long	38	80	140	145	420	484					2LC0900-8GB	67
425	3000	Standard	42	75	140	147	470	521	85	80	200	4 ⁺² ₋₂	2LC0901-0GB	93
		Long	42	100	170	177	470	551					2LC0901-0GB	93
490	2600	Standard	48	75	140	148	555	579	90	90	225	4 ⁺² ₋₂	2LC0901-1GB	143
		Long	48	110	170	178	555	609					2LC0901-1GB	143
565	2300	Standard	65	95	170	178	630	648	100	100	250	5 ⁺³ ₋₂	2LC0901-2GB	193
		Long	65	120	210	218	630	688					2LC0901-2GB	195
655	2000	Standard	65	110	210	218	736	774	120	125	315	5 ⁺³ ₋₂	2LC0901-3GB	311
		Long	65	135	250	258	736	814					2LC0901-3GB	311
755	1800	Standard	65	120	210	219	840	850	140	140	350	5 ⁺³ ₋₂	2LC0901-4GB	420
		Long	65	150	250	259	840	890					2LC0901-4GB	417
887	1500	Standard	65	150	250	251	990	1023	160	180	440	8 ⁺² ₋₃	2LC0901-5GB	726
		Long	65	170	300	301	990	1073					2LC0901-5GB	727

Configurable variants ¹⁾

- ØD1 Without finished bore
With finished bore
- ØD2 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C
- For mass moments of inertia, centroidal distance Y and weight FY, see Page 13/18.

Ordering example

- Motor 750 kW, $P_{eff} = 600$ kW, $n_1 = 980$ rpm
- FLUDEX FNA coupling size 887
- Hub carrier: Standard hub bore ØD1 = 40H7 with keyway to DIN 6885/1 and retaining screw
- Part 1: Bore ØD2 = 120H7 with keyway to DIN 6885/1 and set screw
- with seal set FPM
- EOC system for temperature monitoring
- Delivery without oil filling with oil filling quantity specification

Article no. with EOC system:

2LC0901-5GB99-1AA0-Z L1V+M1S+F12+F26+Y90

Plain text Y90: 90.6 l

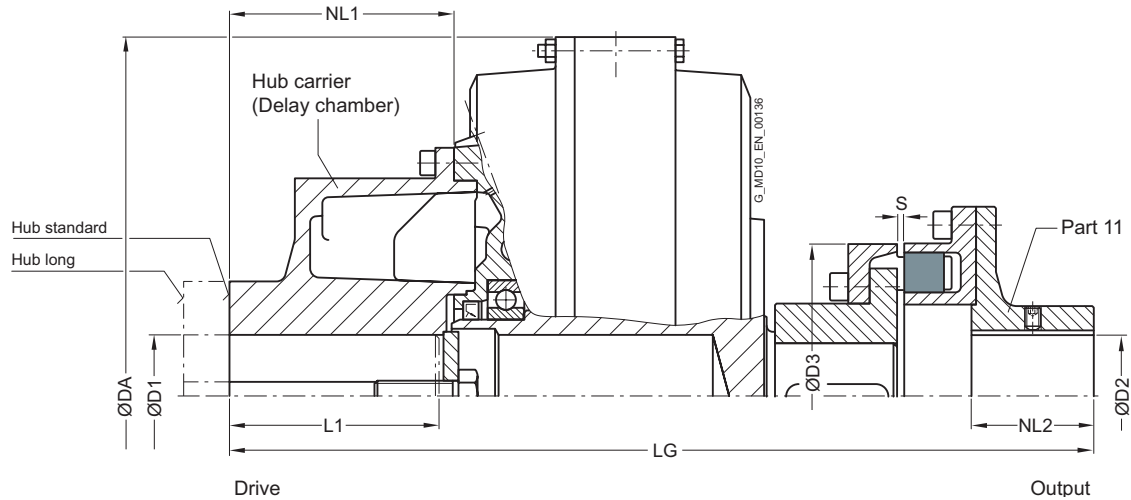
¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

➤ For online configuration on [flender.com](https://www.flender.com), click on the item no.

TYPE FND

with large delay chamber and N-EUPEX D add-on coupling

Enables fitting and dismantling of the coupling without displacement of the coupled shafts.



Size	Maximum speed n_{Kmax} rpm	Hub carrier Hub	FLUDEX coupling						N-EUPEX D coupling				Article no. ¹⁾	Weight m kg
			D1 Keyway DIN 6885 min. max. mm mm		L1 max. mm	NL1 mm	DA mm	LG mm	D2 max. mm	NL2 mm	Size D3 mm	S mm		
370	3600	Standard	38	55	110	115	420	494	70	70	180	5 ⁺¹ ₋₁	2LC0900-8GC	72
		Long	38	80	140	145	420	524					2LC0900-8GC	71
425	3000	Standard	42	75	140	147	470	566	80	80	200	5 ⁺¹ ₋₁	2LC0901-0GC	99
		Long	42	100	170	177	470	596					2LC0901-0GC	99
490	2600	Standard	48	75	140	148	555	629	90	90	225	5 ⁺¹ ₋₁	2LC0901-1GC	150
		Long	48	110	170	178	555	659					2LC0901-1GC	150

Configurable variants ¹⁾

- ØD1 Without finished bore
With finished bore
- ØD2 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

➤ For online configuration on [flender.com](https://www.flender.com), click on the item no.

Size	Maximum speed n_{Kmax}	Hub carrier Hub	FLUDEX coupling						N-EUPEX D coupling				↗ Article no. ¹⁾	Weight m
			D1 Keyway DIN 6885		L1 max. mm	NL1 mm	DA mm	LG mm	D2 max. mm	NL2 mm	Size D3 mm	S mm		
	min. mm	max. mm												
	rpm													
565	2300	Standard	65	95	170	178	630	706	100	100	250	6_{-1}^{+2}	2LC0901-2GC	204
		Long	65	120	210	218	630	746					2LC0901-2GC	206
655	2000	Standard	65	110	210	218	736	842	110	125	315	6_{-1}^{+2}	2LC0901-3GC	324
		Long	65	135	250	258	736	882					2LC0901-3GC	324
755	1800	Standard	65	120	210	219	840	921	120	140	350	6_{-1}^{+2}	2LC0901-4GC	440
		Long	65	150	250	259	840	961					2LC0901-4GC	437
887	1500	Standard	65	150	250	251	990	1104	130	180	440	8_{-2}^{+2}	2LC0901-5GC	747
		Long	65	170	300	301	990	1154					2LC0901-5GC	748

Configurable variants ¹⁾

- ØD1 Without finished bore
With finished bore
- ØD2 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- Delivery with oil filling only above -20 °C
- For mass moments of inertia, centroidal distance Y and weight FY, see **Page 13/18**.

Ordering example

- Motor 132 kW, $P_{eff} = 110$ kW, $n_1 = 1470$ rpm
- FLUDEX FND coupling size 490
- Hub carrier: Long hub bore ØD1 = 80H7 mm with keyway to DIN 6885/1 and set screw
- Part 11: Bore ØD1 = 80H7 mm with keyway to DIN 6885/1 and set screw
- with electronic or mechanical operation monitoring
- seal set NBR
- Delivery without oil filling, no oil filling quantity specification

Article no, with 110 °C thermal switch:

2LC0901-1GC99-2AA0-Z L1J+M1J+F03

Article no. with 125 °C EOC transmitter:

2LC0901-1GC99-2AA0-Z L1J+M1J+F04

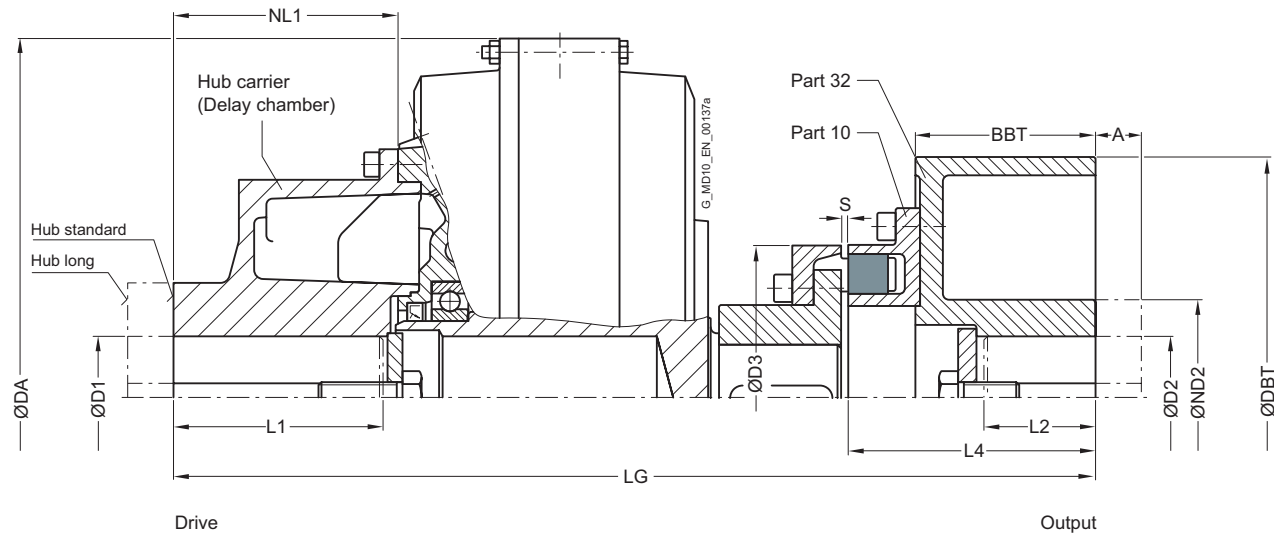
¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on flender.com.

➤ For online configuration on flender.com, click on the item no.

TYPE FNDB

with large delay chamber, N-EUPEX A add-on coupling and brake drum

Enables fitting and dismantling of the coupling without displacement of the coupled shafts.



Size	Maximum speed n_{Kmax} rpm	Hub carrier Hub	FLUDEX coupling						N-EUPEX D add-on coupling			Brake drum (Part 32)					↗ Article no. ¹⁾	Weight <i>m</i> kg
			D1 Keyway DIN 6885 min. mm		L1 max. mm	NL1 mm	DA mm	LG mm	Size D3 mm	S mm	L4 mm	D2 max. mm	ND2 mm	DBT mm	BBT mm	A mm		
370	3000	Standard	38	55	110	115	420	542	180	5 ⁺¹ ₋₁	157	80	128	315	118	50	2LC0900-8GD	87
		Long	38	80	140	145	420	572				90	160	400	150	80	2LC0900-8GD	86
	2300	Standard	38	55	110	115	420	574			189	90	160	400	150	80	2LC0900-8GD	111
		Long	38	80	140	145	420	604										
425	3000	Standard	42	75	140	147	470	604	200	5 ⁺¹ ₋₁	162	80	128	315	118	50	2LC0901-0GD	113
		Long	42	100	170	177	470	634				90	160	400	150	80	2LC0901-0GD	113
	2300	Standard	42	75	140	147	470	636			194	90	160	400	150	80	2LC0901-0GD	137
		Long	42	100	170	177	470	666										

Configurable variants ¹⁾

- ØD1 Without finished bore
With finished bore
- ØD2 Without finished bore
With finished bore
- Part 32 Small brake drum
Large brake drum
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

➤ For online configuration on [flender.com](https://www.flender.com), click on the item no.

Size	Maximum speed n_{Kmax} rpm	Hub carrier Hub	FLUDEX coupling						N-EUPEX D add-on coupling			Brake drum (Part 32)					Article no. ¹⁾	Weight <i>m</i> kg
			D1 Keyway DIN 6885		L1	NL1	DA	LG	Size D3	S	L4	D2	ND2	DBT	BBT	A		
			min. mm	max. mm	max. mm	mm	mm	mm	mm	mm	mm	max. mm	mm	mm	mm	mm		
490	2300	Standard	48	75	140	148	555	689	225	5 ⁺¹ ₋₁	199	90	160	400	150	80	2LC0901-1GD	183
		Long	48	110	170	178	555	719				110	175	500	190	110	2LC0901-1GD	183
	1900	Standard	48	75	140	148	555	729			239	110	175	500	190	110	2LC0901-1GD	218
		Long	48	110	170	178	555	759				110	175	500	190	110	2LC0901-1GD	218
565	2300	Standard	65	95	170	178	630	756	250	6 ⁺² ₋₁	207	100	160	400	150	80	2LC0901-2GD	234
		Long	65	120	210	218	630	796				110	175	500	190	110	2LC0901-2GD	236
	1900	Standard	65	95	170	178	630	796			247	110	175	500	190	110	2LC0901-2GD	268
		Long	65	120	210	218	630	836				110	175	500	190	110	2LC0901-2GD	270
655	1900	Standard	65	110	210	218	736	907	315	6 ⁺² ₋₁	257	110	175	500	190	110	2LC0901-3GD	377
		Long	65	135	250	258	736	947				140	224	630	236	100	2LC0901-3GD	377
	1500 ²⁾	Standard	65	110	210	218	736	953			303	140	224	630	236	100	2LC0901-3GD	437
		Long	65	135	250	258	736	993				140	224	630	236	100	2LC0901-3GD	437
755	1500 ²⁾	Standard	65	120	210	219	840	1018	350	6 ⁺² ₋₁	307	140	224	630	236	100	2LC0901-4GD	541
		Long	65	150	250	259	840	1058				140	224	630	236	100	2LC0901-4GD	538
887	1300 ³⁾	Standard	65	150	250	251	990	1190	440	8 ⁺² ₋₂	347	160	265	710	265	100	2LC0901-5GD	892
		Long	65	170	300	301	990	1240				160	265	710	265	100	2LC0901-5GD	893

Configurable variants ¹⁾

- ØD1 Without finished bore
With finished bore
- ØD2 Without finished bore
With finished bore
- Part 32 Small brake drum
Large brake drum
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling, without hub prolongations "A" but with set screw
- L2 denotes the shaft insertion depth.
In the case of shaft ends deviating from DIN 748/1 long, the insertion depth must be specified in plain text with "Y29"
- Delivery with oil filling only above -20 °C
- For mass moments of inertia, centroidal distance Y and weight FY, see **Page 13/18**.

Ordering example:

- Motor 55 kW, $P_{eff} = 45$ kW, $n_1 = 1470$ rpm
- FLUDEX FNDB coupling size 370, standard type
- Hub carrier: Long hub bore ØD1 = 65H7 mm
with keyway to DIN 6885/1 and set screw
- Brake drum (Part 32): Ø315 x 118, bore ØD2 = 80H7 mm
with keyway to DIN 6885/1 and retaining screw
- seal set NBR
- Delivery without oil filling, no oil filling quantity specification

Article no.: 2LC0900-8GD99-2AA0-Z L1F+M1J

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

²⁾ When performing a GGG brake drum:
Maximum speed 1800 min⁻¹ possible.

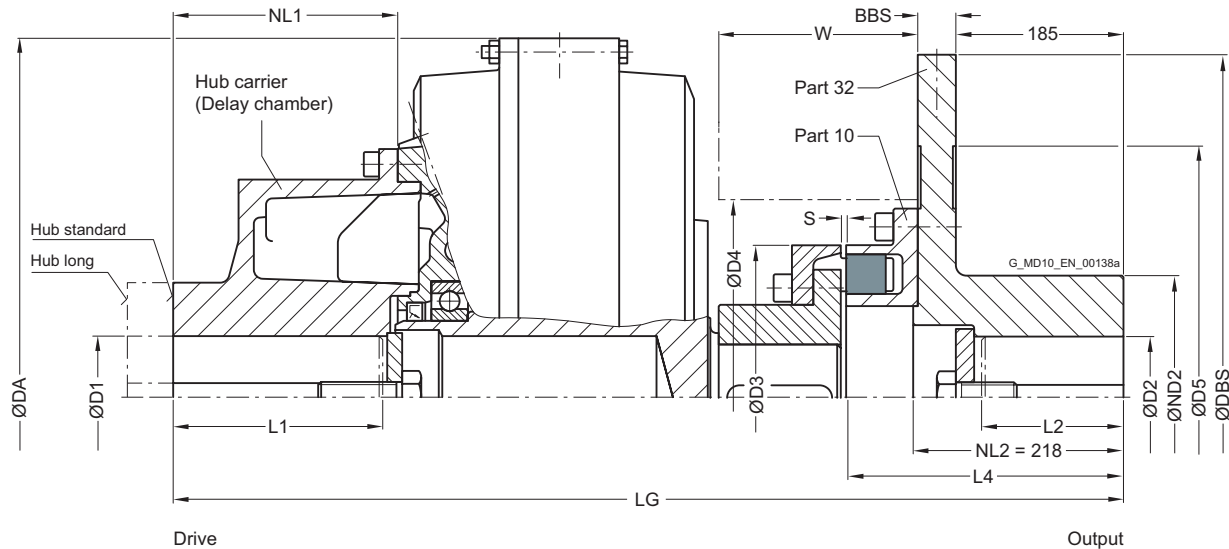
³⁾ When performing a GGG brake drum:
Maximum speed 1500 min⁻¹ possible.

➤ For online configuration on [flender.com](https://www.flender.com), click on the item no.

TYPE FNDS SB

with large delay chamber, N-EUPEX D add-on coupling
and brake disk for stopping brakes

Enables fitting and dismantling of the coupling without
displacement of the coupled shafts.



Size	Maximum speed n_{Kmax} rpm	Hub carrier Hub	FLUDEX coupling						N-EUPEX D add-on coupling			Brake disk (part 32) ²⁾					Space dimensions		Article no. ¹⁾	Weight m kg
			D1 Keyway DIN 6885 min. mm	max. mm	L1 max. mm	NL1 mm	DA mm	LG mm	Size D3 mm	S mm	L4 mm	D2 max. mm	ND2 mm	DBS mm	BBS mm	D5 mm	D4 mm	W mm		
370	3000	Standard	38	55	110	115	420	642	180	5 ⁺¹ ₋₁	257	80	145	450	30	300	222	130	2LC0900-8GE	116
		Long	38	80	140	145	420	672											2LC0900-8GE	115
425	2600	Standard	42	75	140	147	470	704	200	5 ⁺¹ ₋₁	262	80	160	500	30	340	250	144	2LC0901-0GE	155
		Long	42	100	170	177	470	734											2LC0901-0GE	155
490	2300	Standard	48	75	140	148	555	757	225	5 ⁺¹ ₋₁	267	90	160	560	30	370	276	162	2LC0901-1GE	212
		Long	48	110	170	178	555	787											2LC0901-1GE	212

Configurable variants ¹⁾

- ØD1 Without finished bore
With finished bore
- ØD2 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

¹⁾ To identify complete item numbers specifying the available
finish boring options and – if necessary – further order options,
please use our configurators on flender.com.

²⁾ Hub shortening possible, clearly specify NL2 size

↗ For online configuration on flender.com, click on the item no.

Size	Maximum speed n_{Kmax}	Hub carrier Hub	FLUDEX coupling						N-EUPEX D add-on coupling			Brake disk (part 32) ²⁾					Space dimensions		Article no. ¹⁾	Weight <i>m</i>
			D1 Keyway DIN 6885 min. mm	max. mm	L1 max. mm	NL1 mm	DA mm	LG mm	Size D3 mm	S mm	L4 mm	D2 max. mm	ND2 mm	DBS mm	BBS mm	D5 mm	D4 mm	W mm		
565	2100	Standard	65	95	170	178	630	824	250	6 ⁺² ₋₁	275	100	175	630	30	440	317	179	2LC0901-2GE	279
		Long	65	120	210	218	630	864											2LC0901-2GE	281
655	2000	Standard	65	110	210	218	736	935	315	6 ⁺² ₋₁	285	100	175	630	30	440	385	200	2LC0901-3GE	388
		Long	65	135	250	258	736	975											2LC0901-3GE	388
755	1800	Standard	65	120	210	219	840	1000	350	6 ⁺² ₋₁	289	140	220	710	30	520	435	219	2LC0901-4GE	518
		Long	65	150	250	259	840	1040											2LC0901-4GE	515
887	1500	Standard	65	150	250	251	990	1144	440	8 ⁺² ₋₂	301	140	220	800	30	610	525	268	2LC0901-5GE	828
		Long	65	170	300	301	990	1194											2LC0901-5GE	829

Configurable variants ¹⁾

- ØD1 Without finished bore
With finished bore
- ØD2 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- L2 denotes the shaft insertion depth
In the case of shaft ends deviating from DIN 748/1 long the insertion depth must be specified in plain text and with "Y29"
- Delivery with oil filling only above -20 °C
- For mass moments of inertia, centroidal distance Y and weight FY, see **Page 13/18**.

Ordering example

- Motor 37 kW, $P_{eff} = 30$ kW, $n_1 = 1470$ rpm
- FLUDEX FNDS SB coupling size 370
- Hub carrier: Standard hub bore ØD1 = 55H7 mm with keyway to DIN 6885/1 and retaining screw
- Brake disk (part 32): Bore ØD2 = 75H7 mm with keyway to DIN 6885/1 and retaining screw
- with preservation suitable for indoor storage
- Delivery without oil filling, no oil filling quantity specification

Article no. with standard preservation:
2LC0900-8GE99-1CA0-Z L1D+M1H

Article no. with preservation 6 months:
2LC0900-8GE99-1CA0-Z L1D+M1H+B31

Article no. with preservation 24 months:
2LC0900-8GE99-1CA0-Z L1D+M1H+B28

Article no. with preservation 36 months:
2LC0900-8GE99-1CA0-Z L1D+M1H+B34

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

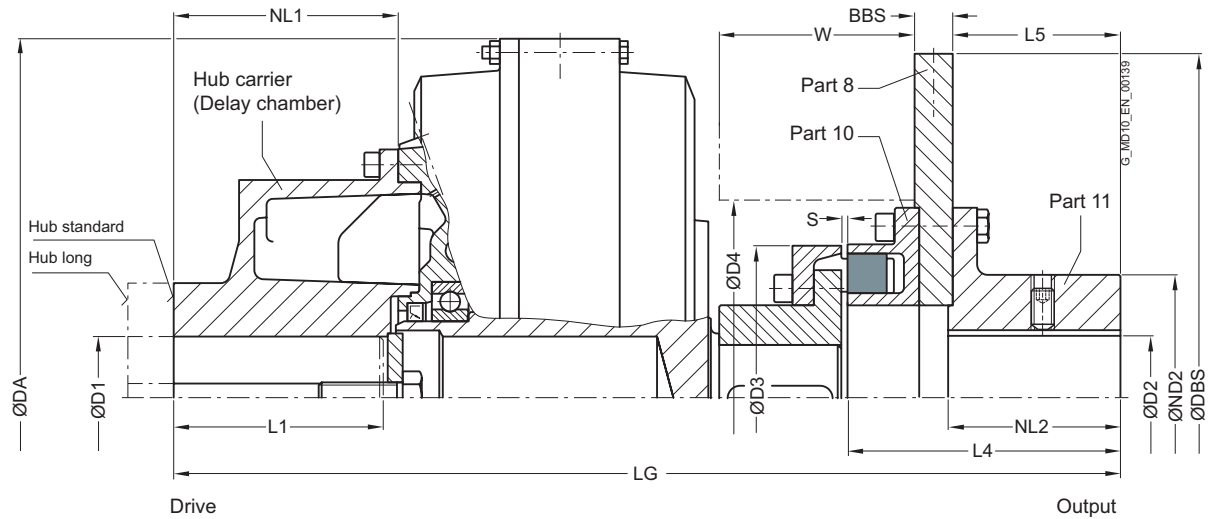
²⁾ Hub shortening possible, clearly specify NL2 size

➤ For online configuration on [flender.com](https://www.flender.com), click on the item no.

TYPE FNDS HB

with large delay chamber, N-EUPEX D add-on coupling and brake disk for blocking brakes

Enables fitting and dismantling of the coupling without displacement of the coupled shafts.



Size	Maximum speed n_{Kmax}	Hub carrier Hub	FLUDEX coupling						N-EUPEX D add-on coupling			Brake disk (part 8) Hub (part 11)						Space dimensions		Article no. ¹⁾	Weight m kg
			D1 Keyway DIN 6885		L1	NL1	DA	LG	Size D3	S	L4	D2	NL2	ND2	DBS	BBS	D5 ²⁾	D4	W		
	min.		max.	max.																	
	rpm		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		
370	3600	Standard	38	55	110	115	420	555	180	5 ⁺¹ ₋₁	170	80	118	130	355	16	115	222	127	2LC0900-8GF	87
		Long	38	80	140	145	420	585												2LC0900-8GF	86
425	3000	Standard	42	75	140	147	470	617	200	5 ⁺¹ ₋₁	175	80	118	130	355	16	115	250	141	2LC0901-0GF	115
		Long	42	100	170	177	470	647												2LC0901-0GF	115
490	2600	Standard	48	75	140	148	555	670	225	5 ⁺¹ ₋₁	180	85	118	135	400	16	115	276	159	2LC0901-1GF	166
		Long	48	110	170	178	555	700												2LC0901-1GF	166

Configurable variants ¹⁾

- ØD1 Without finished bore
With finished bore
- ØD2 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on flender.com.

²⁾ Hub shortening possible, clearly specify L5 size

➤ For online configuration on flender.com, click on the item no.

Size	Maximum speed n_{Kmax} rpm	Hub carrier Hub	FLUDEX coupling						N-EUPEX D add-on coupling			Brake disk (part 8) Hub (part 11)						Space dimensions		Article no. ¹⁾	Weight m kg
			D1 Keyway DIN 6885		L1	NL1	DA	LG	Size D3	S	L4	D2	NL2	ND2	DBS	BBS	D5 ²⁾	D4	W		
			min. mm	max. mm	max. mm	mm	mm	mm	mm	mm	mm	max. mm	mm	mm	mm	mm	mm	mm	mm		
565	2300	Standard	65	95	170	178	630	737	250	6 ⁺² ₋₁	188	100	118	160	450	16	115	317	176	2LC0901-2GF	224
		Long	65	120	210	218	630	777												2LC0901-2GF	226
655	2000	Standard	65	110	210	218	736	848	315	6 ⁺² ₋₁	198	100	118	170	500	16	115	385	197	2LC0901-3GF	347
		Long	65	135	250	258	736	888												2LC0901-3GF	347
755	1800	Standard	65	120	210	219	840	961	350	6 ⁺² ₋₁	250	140	164	225	630	20	160	435	215	2LC0901-4GF	495
		Long	65	150	250	259	840	1001												2LC0901-4GF	492
887	1500	Standard	65	150	250	251	990	1105	440	8 ⁺² ₋₂	262	140	164	225	710	20	160	525	264	2LC0901-5GF	799
		Long	65	170	300	301	990	1155												2LC0901-5GF	800

Configurable variants ¹⁾

- ØD1 Without finished bore
With finished bore
- ØD2 Without finished bore
With finished bore
- Delivery without oil filling
Delivery with oil filling with specification of oil filling quantity in l
Delivery without oil filling with oil filling quantity specification in l

Notes

- The specified coupling weights are effective for maximum bores without oil filling.
- L2 denotes the shaft insertion depth
In the case of shaft ends deviating from DIN 748/1 long the insertion depth must be specified in plain text and with "Y29"
- Delivery with oil filling only above -20 °C
- For mass moments of inertia, centroidal distance Y and weight FY, see Page 13/18.

Ordering example

- Motor 200 kW, $P_{eff} = 160$ kW, $n_1 = 1470$ rpm
- FLUDEX FNDS HB coupling size 490
- Hub carrier: Long hub bore ØD1 = 110H7 mm with keyway to DIN 6885/1 and set screw
- Hub (part 11): Bore ØD2 = 80H7 mm with keyway to DIN 6885/1 and set screw
- Fitting position: Horizontal/vertical motor underneath (MU)
- Delivery without oil filling, no oil filling quantity specification

Article no. in horizontal version:
2LC0901-1GF99-2AA0-Z L1Q+M1J

Article no. in vertical version (MU):
2LC0901-1GF99-2AA0-Z L1Q+M1J+F14

¹⁾ To identify complete item numbers specifying the available finish boring options and – if necessary – further order options, please use our configurators on [flender.com](https://www.flender.com).

²⁾ Hub shortening possible, clearly specify L5 size

↗ For online configuration on [flender.com](https://www.flender.com), click on the item no.

OIL FILLING QUANTITIES FOR FN SERIES

This assignment is valid for a maximum starting torque $T_{\max} = 1.3 \cdot T_{\text{eff}}$ and mineral oils with a viscosity of VG 22/VG 32.

If other operating fluids are used, or with drive via the shaft or $T_{\max} \neq 1.3 \cdot T_{\text{eff}}$, changed filling quantities must be observed!

Sizes 370, 490, 655 and 887										
P_{eff}	Speed in rpm									
kW	600	740	890	980	1180	1470	1770	2300	2950	3550
	Oil filling quantity in l									
1.1	5.6									
2.2	7.1	5.7								
3	7.9	6.4	5.1							
4	8.2	7	5.8	5.1						
5.5	14.4	7.8	6.5	5.9						
7.5	16	8.2	7.2	6.5	5.3					
11	18.2	14.7	8.2	7.4	6.2					
15	19	16.3	13.4	8.2	6.8	5.4				
18	33.5	17.3	14.4	12.9	7.2	5.8				
22	35.4	18.6	15.4	13.9	7.8	6.2	4.9			
30	38.5	19	17	15.5	12.5	6.9	5.7			
37	41.6	34.3	18.4	16.6	13.7	7.4	6.1	4.4		
45	45	36.2	19	17.7	14.7	7.9	6.6	4.7		
55	45	38.2	32.9	19	15.8	12.2	7	5.3		
75	76.5	43	35.8	33.1	17.4	14	7.8	6	4.3	
90	80.5	45	37.6	34.8	18.7	14.9	11.7	6.4	4.6	
110	85.2	45	40.1	36.7	31.8	16	13.1	6.8	5.1	
132	89.5	74.7	43.3	38.6	33.2	16.9	14	7.2	5.6	4.3
160	95.6	80	45	41.5	35	18.1	15	10.7	6	4.7
200	105.5	84.5	71.5	45	37.1	31.1	16.2	11.8	6.5	5.2
250	110	89.7	76.9	45	39.7	33	17.4	13.2		5.8
315		97.5	82.4	76.5	43.8	35.1	30.2	14.5		
350		102.1	84.6	78.4	45	36.1	31.2	15		
400		108.9	87.6	81.2	68	37.4	32.3			
500			94.1	86.1	73.3	40.2	34.2			
600			101.4	90.6	78.1	43.5	35.9			
750			110	98.5	82.9	66.9	38.2			
900				107.2	86.8	72.7				
1100					92.1	77.1				
1300					98.2	80.4				
1600						84.9				

370

490

655

887

Sizes 425, 565 and 755

P_{eff} kW	Speed in rpm								Size
	600	740	890	980	1180	1470	1770	2300	
	Oil filling quantity in l								
2.2	8.5								
3	9.7								
4	10.7	8.6							
5.5	12	9.7							
7.5	12.5	10.7	8.8	7.7					
11	22.6	12.2	10.2	9.2					
15	25.2	12.5	11.2	10.2	8.3				
18	26.6	21.4	12	10.8	8.9				
22	28.6	23.1	12.5	11.6	9.6				
30	44.1	25.7	21.1	12.5	10.7	8.5			
37	46.8	27.5	22.9	20.5	11.4	9.2	7.1		
45	49.5	29	24.5	22	12.3	9.8	7.8		
55	52.4	29	26.1	23.7	18.7	10.5	8.6		
75	58.5	47.8	29	26.3	21.7	11.6	9.7	6.9	
90	63.8	50.5	29	27.9	23.2	12.4	10.3	7.4	
110		53.5	45.6	29	24.9	19	11	8.3	
132		57	47.9	44.3	26.3	20.9	11.7	8.9	6.6
160		62	50.8	46.7	28.1	22.5	17.4	9.6	6.9
200		67	54.2	49.9	42.1	24.3	19.5	10.3	7.6
250			59	53.1	45.3	26.2	21.6	16	8.6
315			66.2	57.6	48.3	28.3	23.5	16.7	9.3
350				60.3	49.9	40.8	24.4	17.4	
400				64.4	51.8	42.6	25.5	18.5	
500					55.4	45.7	37.8	20.8	
600					59.8	48.1	40.6	22.3	
750						51.3	43.7		
900						54.2	46.1		
1100							48.8		
1200							50.1		

SPARE AND WEAR PARTS

for standard catalog couplings

Flexible elements for N-EUPEX add-on coupling

FLUDEX coupling Series	Size	Type	N-EUPEX coupling Size	Number flexibles per set	Article No. (FFA) for one set flexibles
FA	222	FAK ¹⁾ ; FAKB ¹⁾	95	6	FFA:000001194870
		Other types	110	6	FFA:000001194871
	297	FAK ¹⁾ ; FAKB ¹⁾	125	6	FFA:000001194872
		FAK ²⁾ ; FAKB ²⁾	125	6	FFA:000001194873
		Other types	125	6	FFA:000001194873
	342	All types	140	6	FFA:000001194874
	395	FAD ¹⁾ ; FAE ¹⁾ ; FADB ¹⁾	225	8	FFA:000001194875
		FAD ²⁾ ; FAE ²⁾ ; FADB ²⁾	225	8	FFA:000001194876
		Other types	225	8	FFA:000001194876
	450	FAD ¹⁾ ; FAE ¹⁾ ; FADB ¹⁾	250	8	FFA:000001194877
		FAD ²⁾ ; FAE ²⁾ ; FADB ²⁾	250	8	FFA:000001194878
		Other types	250	8	FFA:000001194878
	516	FAD ¹⁾ ; FADB ¹⁾	315	9	FFA:000001194879
		FAD ²⁾ ; FADB ²⁾	315	9	FFA:000001194880
		Other types	315	9	FFA:000001194880
	590	All types until 2010	315	9	FFA:000001194879
		All types from 2011 on	315	9	FFA:000001194880
FG/FV	370	All types	180	8	FFA:000001194881
	425		225	8	FFA:000001194876
	490		250	8	FFA:000001194878
	565		280	8	FFA:000001194882
	655		350	9	FFA:000001194883
	755		400	10	FFA:000001194884
	887		440	10	FFA:000001194885
FN	370	FNDB ØDBT = 400 ³⁾	200	8	FFA:000001194886
		All types	180	8	FFA:000001194881
	425	All types	200	8	FFA:000001194886
	490	FNDB ØDBT = 500 ³⁾	250	8	FFA:000001194878
		All types	225	8	FFA:000001194876
	565	All types	250	8	FFA:000001194878
	655		315	9	FFA:000001194880
	755		350	9	FFA:000001194883
	887		440	10	FFA:000001194885

¹⁾ For couplings up to and including year of construction 2003.

²⁾ For couplings from year of construction 2004.

³⁾ For couplings up to and including year of construction 2007.

Thermal equipment

FLUDEX size	Thread	Part no.	Fuse element	Response temperature	Marking	Article No. (FFA) for one unit
222	M10	103 + 104 ¹⁾	Fusible safety plug	110 °C	yellow	FFA:000001194896
		203 + 204 ¹⁾		140 °C	red	FFA:000001194897
				160 °C	green	FFA:000001194898
	M10	153 + 104 ¹⁾	Oil filler plug	–		FFA:000001194894
297	M10	153 + 104 ¹⁾	Oil filler plug	–		FFA:000001194894
297 - 887	M18 x 1.5	103 ²⁾	Fusible safety plug	110 °C	yellow	FFA:000001250338
		203 ²⁾		140 °C	red	FFA:000001250339
				160 °C	green	FFA:000001250380
	M18 x 1.5	110 ²⁾	Thermal switch	110 °C		FFA:000001361795
		210 ²⁾		140 °C		FFA:000001361796
	M18 x 1.5	153 ²⁾	Oil filler plug (except size 887)	–		FFA:000001337653
		163 ²⁾	Screw plug	–		FFA:000000652020
	–	301	Cut-out device	–		FFA:000001194899
	–	142 + 104 ¹⁾	EOC transmitter with seal	125 °C		FFA:000000361460
	–	245	EOC sensor	–		FFA:000001205294
		244	Evaluation instrument EWD 20 to 250 V AC/DC	–		FFA:000001194894
370 - 755	M10	173 + 174 ¹⁾	Oil drain plug - delay chamber	–		FFA:000001194893
887	M30 x 1.5	153 + 154 ¹⁾	Oil filler plug (up to and including year of construction 2007)	–		FFA:000001349554
		153 ²⁾	Oil filler plug (from year of construction 2008)	–		FFA:000001194895
	M16	173 + 174 ¹⁾	Oil drain plug - delay chamber	–		FFA:000001194895

Sealing and rolling bearing sets for the FA series (except type FAR)

FLUDEX size	Up to and including year of construction	From year of construction	Seal set material	Article No. (FFA) for one seal set	Article No. (FFA) for one rolling bearing set
222	2000	2001	NBR	FFA:000001194900	FFA:000001194800
			NBR	FFA:000001194901	FFA:000001194801
			FPM	FFA:000001194902	
297	2000	2001	NBR	FFA:000001194903	FFA:000001194802
			FPM	FFA:000001194904	
			NBR	FFA:000001194905	FFA:000001194803
342			FPM	FFA:000001194906	
			NBR	FFA:000001194907	FFA:000001194804
			FPM	FFA:000001194908	
395			NBR	FFA:000001194909	FFA:000001194805
			FPM	FFA:000001194910	
450			NBR	FFA:000001194911	FFA:000001194806
			FPM	FFA:000001194912	
516			NBR	FFA:000001194913	FFA:000001194807
			FPM	FFA:000001194914	
590			NBR	FFA:000001194915	FFA:000001194808
			FPM	FFA:000001194916	

¹⁾ With separate seal ring.

²⁾ With built-in ring seal.

SPARE AND WEAR PARTS

for standard catalog couplings

Seal and rolling bearing sets for type FAR ¹⁾

FLUDEX size	Type	Up to and including year of construction	From year of construction	Seal set material	Article No. (FFA) for one seal set	Article No. (FFA) for one rolling bearing set
222	2 · SPZ 100	2000	2001	NBR	FFA:000001194917	FFA:000001194809
				NBR	FFA:000001194918	FFA:000001194810
	3 · SPZ 160	2001	2001	FPM	FFA:000001194919	FFA:000001194811
				NBR	FFA:000001194920	FFA:000001194811
297	5 · SPZ 140	2000	2001	FPM	FFA:000001194921	FFA:000001194811
				NBR	FFA:000001194922	FFA:000001194812
	7 · SPZ 140	2000	2001	FPM	FFA:000001194923	FFA:000001194812
				NBR	FFA:000001194924	FFA:000001194813
	5 · SPZ 150	2001	2001	FPM	FFA:000001194925	FFA:000001194813
				NBR	FFA:000001194926	FFA:000001194814
342	4 · SPA 190	2001	2001	FPM	FFA:000001194927	FFA:000001194814
				NBR	FFA:000001194928	FFA:000001194815
	5 · SPA 224	2001	2001	FPM	FFA:000001194929	FFA:000001194815
				NBR	FFA:000001194930	FFA:000001194816
395	5 · SPA 180	2000	2001	FPM	FFA:000001194931	FFA:000001194816
				NBR	FFA:000001194932	FFA:000001194817
	7 · SPA 180	2000	2001	FPM	FFA:000001194933	FFA:000001194818
				NBR	FFA:000001194934	FFA:000001194817
450	5 · SPB 224	2000	2001	FPM	FFA:000001194935	FFA:000001194818
				NBR	FFA:000001194936	FFA:000001194819
	7 · SPB 224	2000	2001	FPM	FFA:000001194937	FFA:000001194819
				NBR	FFA:000001194938	FFA:000001194820
	7 · SPB 236	2001	2001	FPM	FFA:000001194939	FFA:000001194821
				NBR	FFA:000001194940	FFA:000001194822
516	7 · SPB 280	2001	2001	FPM	FFA:000001194941	FFA:000001194823
				NBR	FFA:000001194942	FFA:000001194824
	8 · SPB 250	2000	2001	FPM	FFA:000001194943	FFA:000001194825
				NBR	FFA:000001194944	FFA:000001194826
	10 · SPB 250	2000	2001	FPM	FFA:000001194945	FFA:000001194827
				NBR	FFA:000001194946	FFA:000001194828
590	10 · SPB 315	2000	2001	FPM	FFA:000001194947	FFA:000001194829
				NBR	FFA:000001194948	FFA:000001194830
	12 · SPB 315	2000	2001	FPM	FFA:000001194949	FFA:000001194831
				NBR	FFA:000001194950	FFA:000001194832
590	12 · SPC 315	2000	2001	FPM	FFA:000001194951	FFA:000001194833
				NBR	FFA:000001194952	FFA:000001194834
	12 · SPC 315	2000	2001	FPM	FFA:000001194953	FFA:000001194835
				NBR	FFA:000001194954	FFA:000001194836
590	12 · SPC 315	2000	2001	FPM	FFA:000001194955	FFA:000001194837
				NBR	FFA:000001194956	FFA:000001194838
590	12 · SPC 315	2000	2001	FPM	FFA:000001194957	FFA:000001194839
				NBR	FFA:000001194958	FFA:000001194840

¹⁾ Spare parts only suitable for specified belt pulleys.
Please request a different number of grooves by specifying the original delivery number.

Seal and rolling bearing sets for the FG/FV/FN series

FLUDEX coupling						
Series	Size	Year of construction	Additional bore specifications	Seal set material	Article No. (FFA) for one seal set	Article No. (FFA) for one rolling bearing set
FG	370	Up to and including year of construction 2000		NBR	FFA:000001194958	FFA:000001194850
		From year of construction 2001		FPM	FFA:000001194959	FFA:000001194851
	425			NBR	FFA:000001194958	FFA:000001194851
				FPM	FFA:000001194959	FFA:000001194852
	490			NBR	FFA:000001194962	FFA:000001194852
				FPM	FFA:000001194963	FFA:000001194853
	565			NBR	FFA:000001194966	FFA:000001194853
				FPM	FFA:000001194967	FFA:000001194854
	655		ØD2 ≤ 100	NBR	FFA:000001194970	FFA:000001194854
				FPM	FFA:000001194971	FFA:000001194855
			ØD2 > 100	NBR	FFA:000001194974	FFA:000001194855
				FPM	FFA:000001194975	FFA:000001194856
	755		ØD2 ≤ 110	NBR	FFA:000001194976	FFA:000001194856
				FPM	FFA:000001194977	FFA:000001194857
			ØD2 > 110	NBR	FFA:000001194982	FFA:000001194857
				FPM	FFA:000001194983	FFA:000001194858
FV	370	Up to and including year of construction 2000		NBR	FFA:000001194984	FFA:000001194858
		From year of construction 2001		FPM	FFA:000001194985	FFA:000001194860
	425			NBR	FFA:000001194993	FFA:000001194860
				FPM	FFA:000001194960	FFA:000001194850
	490			NBR	FFA:000001194961	FFA:000001194851
				FPM	FFA:000001194961	FFA:000001194852
	565			NBR	FFA:000001194964	FFA:000001194852
				FPM	FFA:000001194965	FFA:000001194853
	655		ØD2 ≤ 100	NBR	FFA:000001194968	FFA:000001194853
				FPM	FFA:000001194969	FFA:000001194854
			ØD2 > 100	NBR	FFA:000001194972	FFA:000001194854
				FPM	FFA:000001194973	FFA:000001194855
	755		ØD2 ≤ 110	NBR	FFA:000001194978	FFA:000001194855
				FPM	FFA:000001194979	FFA:000001194856
			ØD2 > 110	NBR	FFA:000001194980	FFA:000001194856
				FPM	FFA:000001194981	FFA:000001194857
FN	370	Up to and including year of construction 2000		NBR	FFA:000001194986	FFA:000001194857
		From year of construction 2001		FPM	FFA:000001194987	FFA:000001194857
	425			NBR	FFA:000001194988	FFA:000001194858
				FPM	FFA:000001194989	FFA:000001194858
	490			NBR	FFA:000001194992	FFA:000001194860
				FPM	FFA:000001194960	FFA:000001194850
	565			NBR	FFA:000001194961	FFA:000001194851
				FPM	FFA:000001194961	FFA:000001194852
	655			NBR	FFA:000001194964	FFA:000001194852
				FPM	FFA:000001194965	FFA:000001194853
	755			NBR	FFA:000001194968	FFA:000001194853
				FPM	FFA:000001194969	FFA:000001194854
	887			NBR	FFA:000001194972	FFA:000001194854
				FPM	FFA:000001194973	FFA:000001194855