

Fluid Couplings

FLUDEX Series



| | | | |
|--------------|--|--------------|--|
| 13/2 | <u>Overview</u> | 13/27 | Types FGD/FVD <u>Selection and ordering data</u> |
| 13/2 | <u>Benefits</u> | 13/28 | Types FGE/FVE <u>Selection and ordering data</u> |
| 13/2 | <u>Application</u> | 13/29 | Types FGM/FVM <u>Selection and ordering data</u> |
| 13/2 | <u>Design</u> | 13/30 | Oil filling quantities for FG/FV series <u>Selection and ordering data</u> |
| 13/5 | <u>Function</u> | 13/32 | Type FNO <u>Selection and ordering data</u> |
| 13/6 | <u>Technical data</u> | 13/33 | Type FNA <u>Selection and ordering data</u> |
| 13/7 | <u>Configuration</u> 13/7 Selection of coupling 13/7 Selection of series 13/10 Selection of type 13/11 Selection of size | 13/34 | Type FND <u>Selection and ordering data</u> |
| 13/12 | FLUDEX coupling as aid to starting IEC motors 13/12 <u>Selection and ordering data</u> 13/12 Speed $n = 1500$ rpm 13/14 Speed $n = 3000$ rpm | 13/35 | Type FNDB <u>Selection and ordering data</u> |
| 13/16 | Type FAO 13/16 <u>Selection and ordering data</u> | 13/37 | Type FNDS SB <u>Selection and ordering data</u> |
| 13/17 | Type FAR with attached V-belt pulley 13/17 <u>Selection and ordering data</u> | 13/38 | Type FNDS HB <u>Selection and ordering data</u> |
| 13/18 | Type FAD 13/18 <u>Selection and ordering data</u> | 13/39 | Oil filling quantities for FN series 13/39 <u>Selection and ordering data</u> |
| 13/19 | Type FAE 13/19 <u>Selection and ordering data</u> | 13/41 | Spare parts 13/41 <u>Selection and ordering data</u> |
| 13/20 | Type FAM 13/20 <u>Selection and ordering data</u> | 13/45 | Mass moments of inertia and maximum oil filling quantities 13/45 <u>Technical data</u> |
| 13/21 | Type FADB 13/21 <u>Selection and ordering data</u> | 13/48 | Special types 13/48 <u>Selection and ordering data</u> |
| 13/22 | Type FADS SB 13/22 <u>Selection and ordering data</u> | 13/50 | Form Technical specifications for the selection of type and size for FLUDEX fluid couplings |
| 13/23 | Type FADS HB 13/23 <u>Selection and ordering data</u> | | |
| 13/24 | Oil filling quantities for FA series 13/24 <u>Selection and ordering data</u> | | |
| 13/26 | Types FGO/FVO 13/26 <u>Selection and ordering data</u> | | |

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

General information

Overview



**Coupling suitable for potentially explosive environments.
Complies with Directive 94/9/EC for:**

**CE Ex II 2 Gc T3 D160 °C II B
-30 °C ≤ T_a ≤ +50 °C**

CE Ex I M2

For Ex zones 2 and 22, device category 3 is available upon request:

CE Ex II 3 Gc T4 D120 °C II B

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

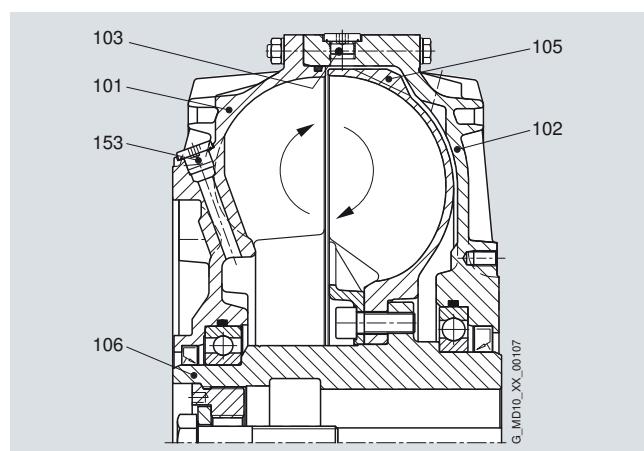
FLUDEX couplings are used in drives for conveyor systems such as belt conveyors, bucket elevators and chain conveyors. In heavy industry FLUDEX couplings are used for applications such as blade wheel drives, crushers, roller presses, mixers, large ventilators, boiler feed pumps, large compressors, centrifuges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

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

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

Design

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.



FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

General information

Materials

Blade wheel and housing

Cast aluminum AlSi10Mg

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 with a yield point higher than 400 N/mm²

Fusible safety plugs

If a FLUDEX coupling is operated with an impossibly 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.

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.

Assignment

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

Thermal equipment

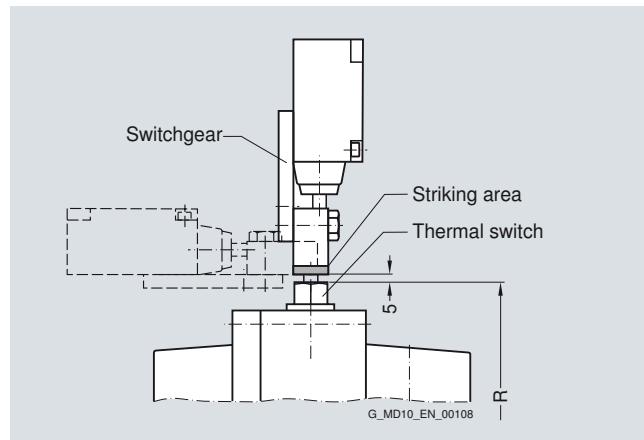
| Equipment | Suitability | Fusible safety plug | Sealing material | Additional order info -Z with order code |
|--|-------------|-----------------------------------|------------------|--|
| | 1 | 110 °C | NBR FPM | F01 F05 |
| Standard | 1 | 140 °C | NBR | – |
| | 1 | 140 °C | FPM | F07 |
| | 2 | 160 °C | FPM | F08 |
| ATEX | 1 | 110 °C ex | NBR FPM | F02 F06 |
| With thermal switch ¹⁾ | 1 | 140 °C + thermal switch 110 °C | NBR FPM | F03 F10 |
| | 2 | 160 °C + thermal switch 140 °C | FPM | F11 |
| With transmitter ¹⁾ | 2 | 160 °C + EOC transmitter (125 °C) | NBR FPM | F04 F12 |
| Incl. switchgear | | | | F25 |
| Incl. sensor and evaluation instrument | | | | F26 |

¹⁾ Not available for size 222.

Suitability:

1 = Suitable for continuous coupling operation temperatures up to 85 °C

2 = Suitable for continuous coupling operation temperatures up to 110 °C



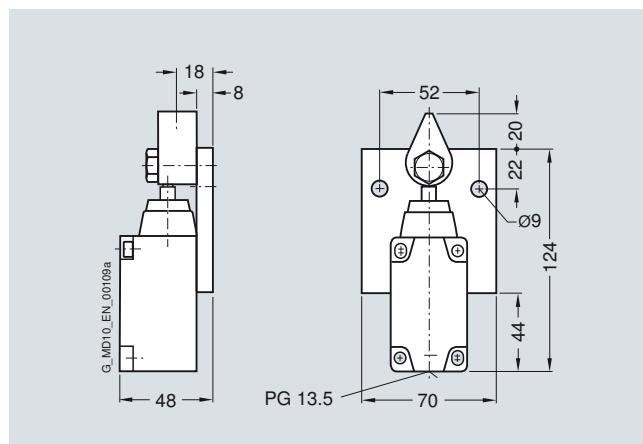
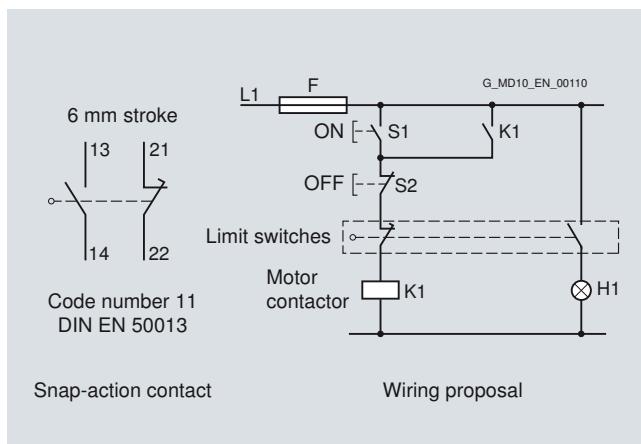
| Size | | | | | | | | | | | | | |
|--------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 297 | 342 | 370 | 395 | 425 | 450 | 490 | 516 | 565 | 590 | 655 | 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.

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

General information



EOC system

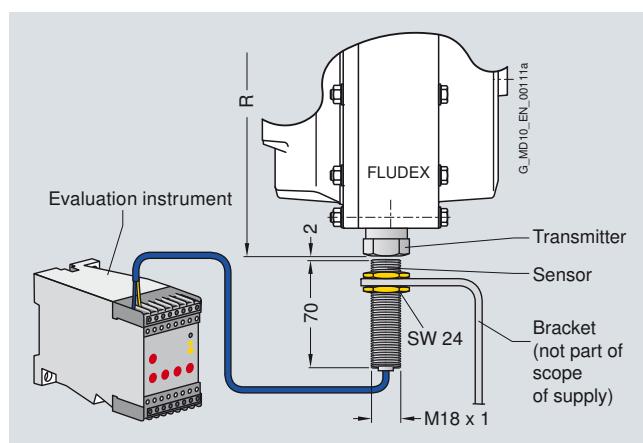
On the EOC system the temperature-dependent magnitude of the magnetic field of the EOC transmitter is measured and used for a switching pulse. The transmitter signal is transmitted via the fixed sensor to the evaluation instrument and there compared with the set value. If the signal does not exceed the 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.



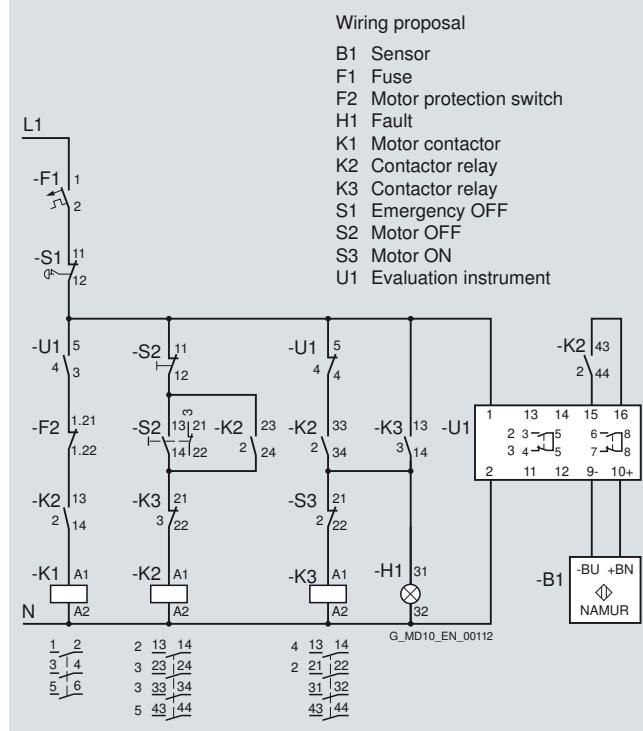
Components of the EOC system

| Component | Product code |
|---------------------------|-------------------------|
| EOC transmitter with seal | FFA:000001194899 |
| Sensor EOC | FFA:00000361460 |
| Evaluation instrument EWD | FFA:00001205294 |



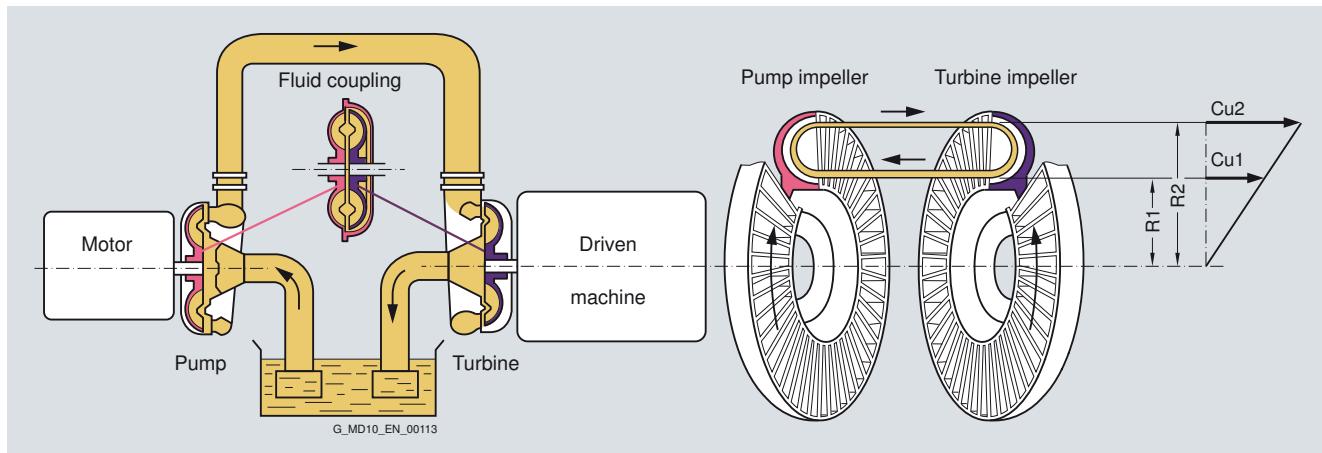
Radius of travel R to the transmitter

| Size | 297 | 342 | 370 | 395 | 425 | 450 | 490 | 516 | 565 | 590 | 655 | 755 | 887 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| R in mm | 188 | 215 | 226 | 239 | 251 | 271 | 292 | 307 | 330 | 346 | 383 | 435 | 507 |



Function

Föttinger principle



Two opposing, radially bladed impellers are housed in a leak-proof 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.

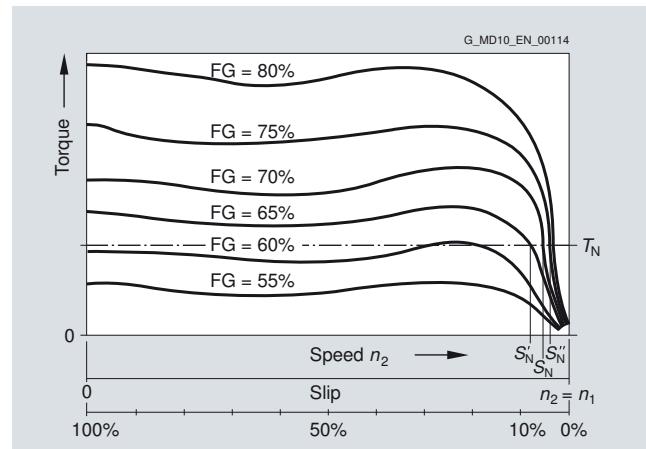
Hydrodynamic couplings have the characteristic properties of fluid flow engines. The transmissible torque depends on the density and quantity of the operating fluid and increases as the square of the drive speed and the fifth power of the profile diameter denoting the coupling size. In the driven pump 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.



Slip-torque characteristics for different filling levels FG

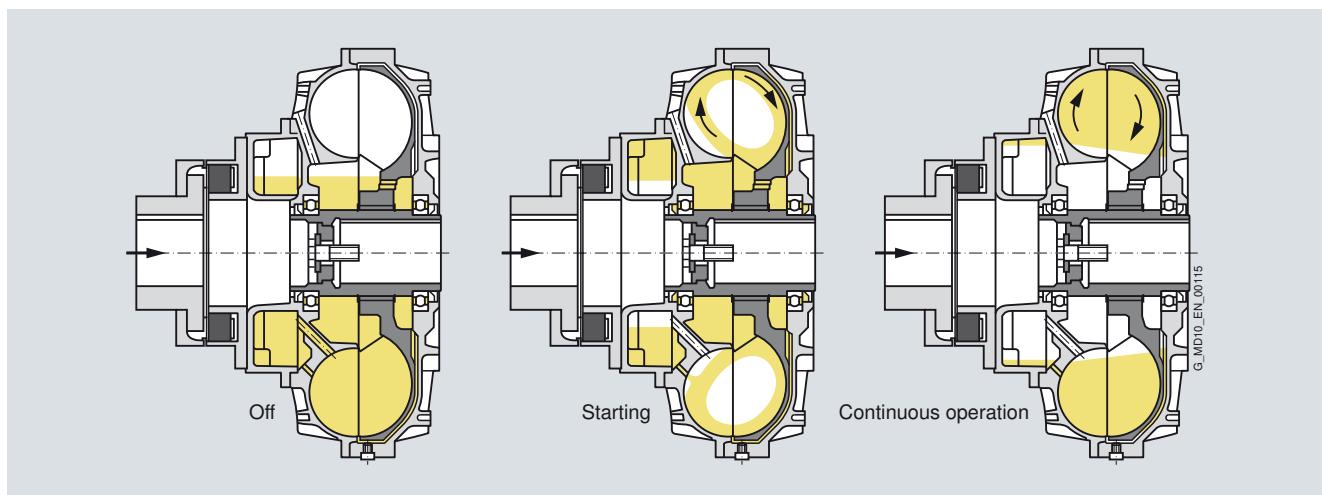
The torque characteristic depends on the oil filling quantity FG in the coupling. This enables the transmissible torque on starting up to be set via the filling level. With a higher filling level the starting torque increases, while the operating slip and thus the coupling temperature rise decreases.

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

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

General information



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 inactive in the delay chamber. The starting torque is considerably reduced because of the thus reduced starting filling in the work-

ing 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 data

Balancing FLUDEX couplings

In deviation from the balancing specifications in catalog section 2, all FLUDEX couplings complying with DIN ISO 1940 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 (order code +W03 required).

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, using the product code key (see catalog section 2).

Add-on couplings are subject to the standards as set out in catalog section 2.

Oil filling

FLUDEX couplings can be delivered with or without oil filling.

- Delivery without oil filling:
without order code
- Delivery with oil filling:
product code with **-Z** and order code **F16** and **Y90** with plain text specification of the oil filling quantity in liters.
- Delivery without oil filling but with oil filling quantity specification: Product code with **-Z** and order code **Y90** with plain text specification of the oil filling quantity in liters.

Hollow shafts of the FA, FG and FV series

Variant of FLUDEX hollow shafts only with finished bore:
Order code for bore diameter is required.

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.

For the selection of the operating oil for low temperatures, attention must be paid to a sufficient low freezing point of the oil and his compatibility to 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.

Operating conditions for FLUDEX couplings in potentially explosive environments

The coupling with fusible safety plugs with identity marking **Ex T3** is suitable for the operating conditions set out in Directive 94/9/EC:

- 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
Ex 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.
- Ex** 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.

General information

Axial retention

Axial retention is provided by a set screw or end washer with a retaining screw for shaft ends to DIN 748/1 with a centering thread to DIN 332/2. Other methods must be specified in the order, using the product code with **-Z** and order code **Y99** with plain text specification, unless ordering options are available.

Bore and keyway width tolerances are specified in catalog section 15.

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.

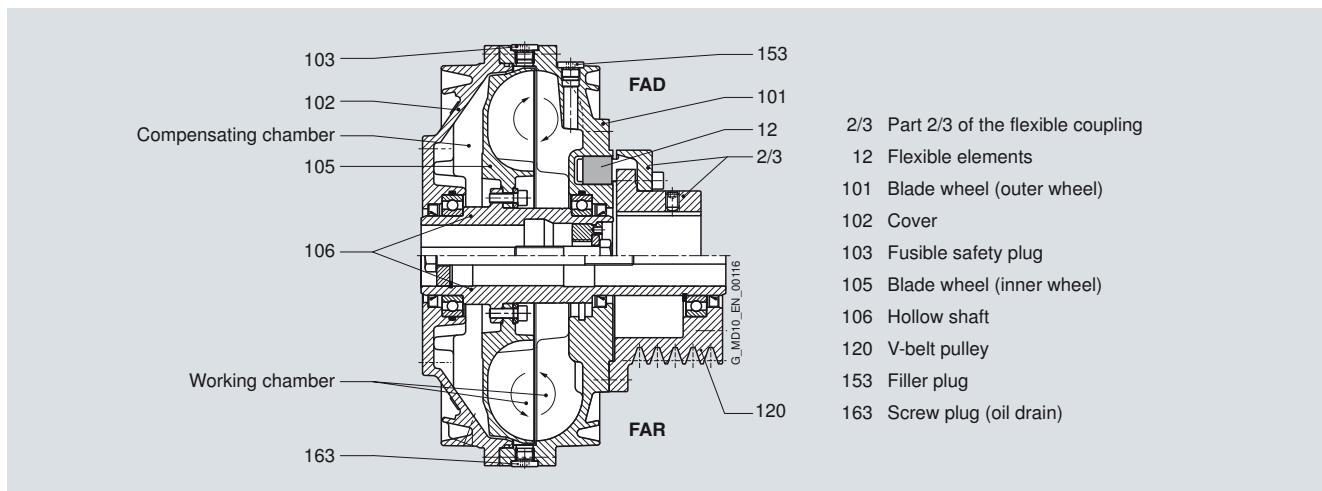
Selection of FLUDEX series

FLUDEX couplings which are to be used without special conditions solely as an aid to starting the motor can be selected using the assignment tables on page 13/12 (for $n = 1500$ rpm) or page 13/14 (for $n = 3000$ rpm).

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" can be used for this purpose.

Description of the FLUDEX series

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



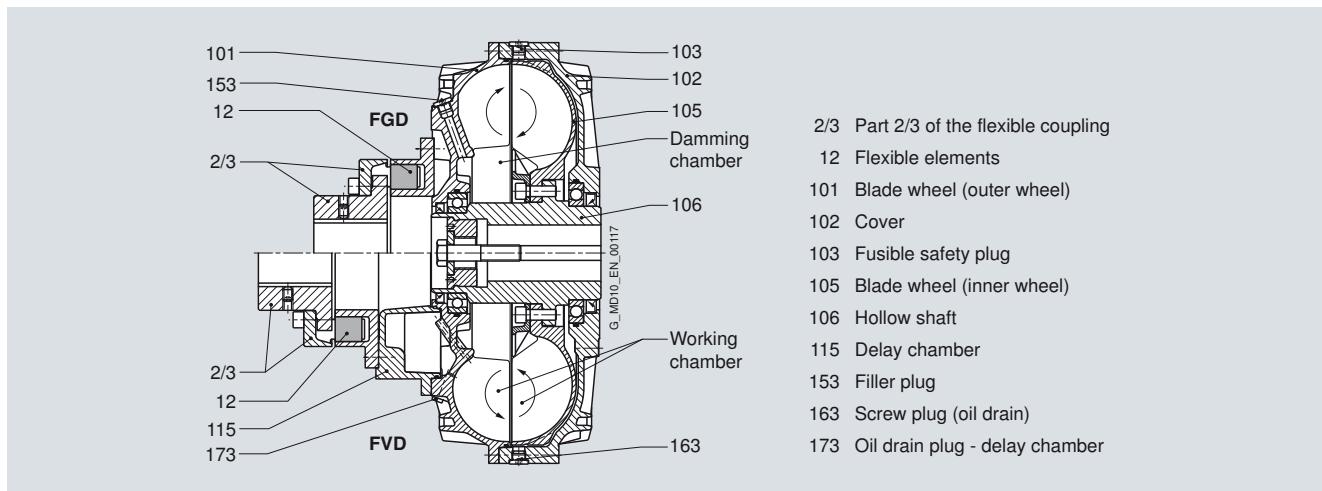
FLUDEX FA series couplings are basic couplings (without delay chamber) which are driven via the hollow shaft (106) with attached blade wheel (105). This enables the advantages of the compensating chamber and the working chamber to be used to best effect. Combinations with brake drums/disks and pulleys 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 T_N) 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 of the rated value. During run-up to speed the compensating chamber again empties into the working chamber, and this helps to reduce slip.

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

General information

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.

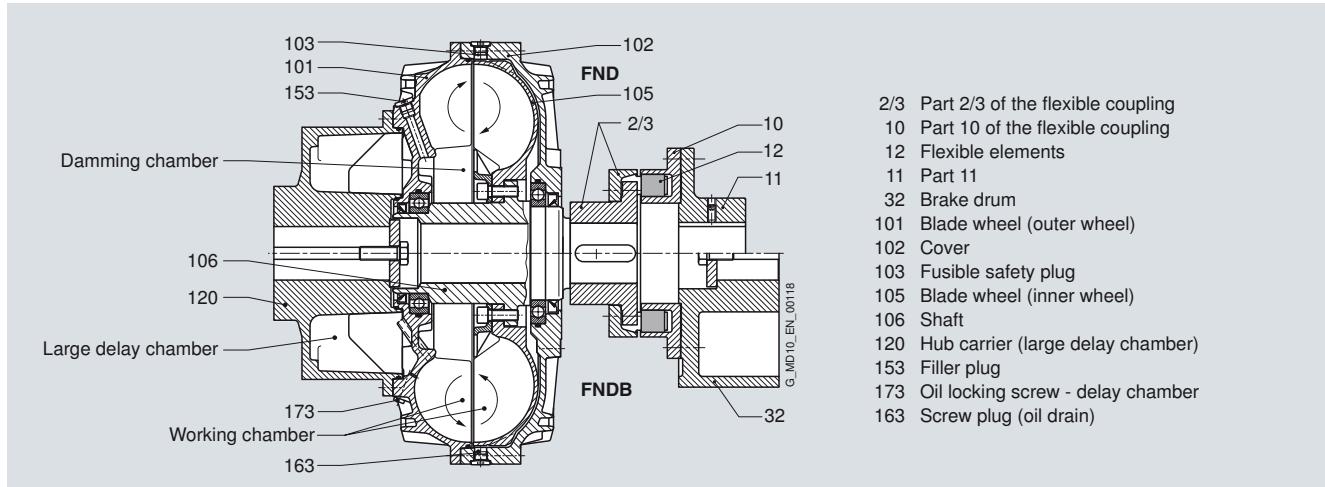
When the coupling is started up, part of the oil filling is forced into the damming chamber. This enables the desired torque limitation (approx. twice T_N) to be achieved during starting. In the FV series the delay chamber also receives part of the oil filling in accordance with the fluid level when 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.

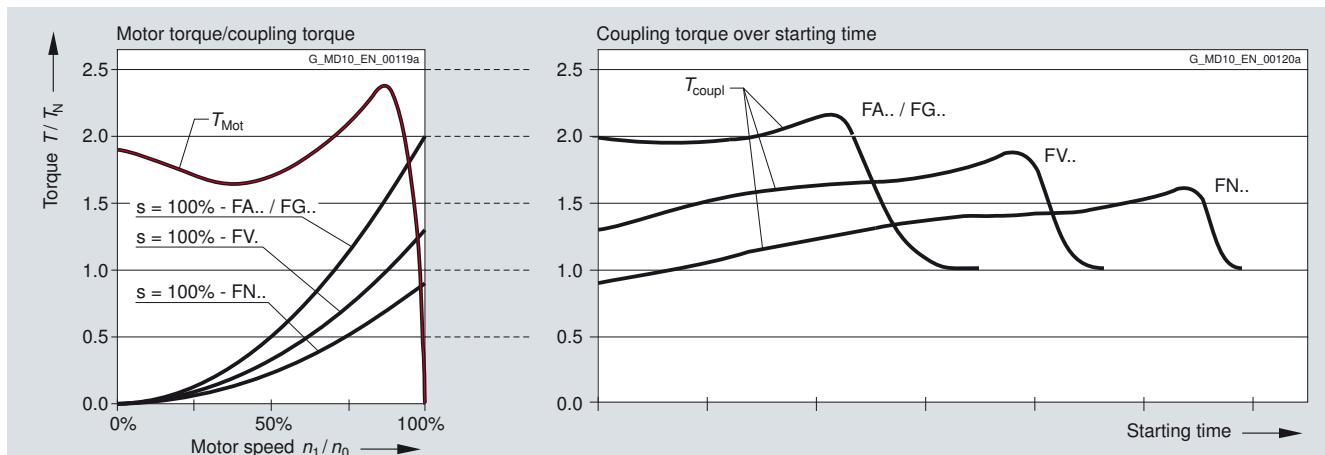
FN series – drive via the housing

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 dismounted radially without moving the coupled machines.

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

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

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.

**FLUDEX series:**

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

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

General information

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 | Type | Add-on coupling | Characteristic feature |
|-----------|----------------|------------------|---|
| FA | FAO | Without | Basic coupling with connecting flange |
| | FAR | Without | with attached pulley |
| | FAD | N-EUPEX D | 1) |
| | FAE | N-EUPEX E | enables larger bores on the output side |
| | FAM | N-EUPEX M | enables a short fitting length |
| | FADB | N-EUPEX D | with brake drum |
| | FADS SB | N-EUPEX D | 1) with brake disk for stopping brakes |
| | FADS HB | N-EUPEX D | 1) with brake disk for blocking brakes |
| FG | FGO | Without | Basic coupling with connecting flange |
| | FGD | N-EUPEX D | 1) |
| | FGE | N-EUPEX E | enables larger bores on the output side |
| | FGM | N-EUPEX M | enables a short fitting length |
| FV | FVO | Without | Coupling with connecting flange |
| | FVD | N-EUPEX D | 1) |
| | FVE | N-EUPEX E | enables larger bores on the output side |
| | FVM | N-EUPEX M | enables a short fitting length |
| FN | FNO | Without | Coupling with connecting shaft |
| | FNA | N-EUPEX A | 1) enables a short fitting length |
| | FND | N-EUPEX D | 1) 2) |
| | FNDB | N-EUPEX D | 1) 2) with brake drum |
| | FNDS SB | N-EUPEX D | 1) 2) with brake disk for stopping brakes |
| | FNDS HB | N-EUPEX D | 1) 2) with brake disk for blocking brakes |

The maximum shaft misalignments permissible for an N-EUPEX add-on coupling are shown in catalog section 7. For greater shaft misalignments FLUDEX couplings can be combined with cardan shafts or other displacement couplings.

1) Enables change of flexible elements without moving the machines axially.
 2) Enables the coupling to be fitted or dismounted without displacing the coupled machines.

General information
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 cou-

pling 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.

FA series

| Speed in rpm | | | | | | | | | | | | | | Size |
|--------------------------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 |
| 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

| Speed in rpm | | | | | | | | | | | | | | Size |
|--------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| 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⁾ |

The specified coupling weights of the following selection tables are effective for maximum bores without oil filling.

¹⁾ D = double-flow variant on request.

FLENDER Standard Couplings

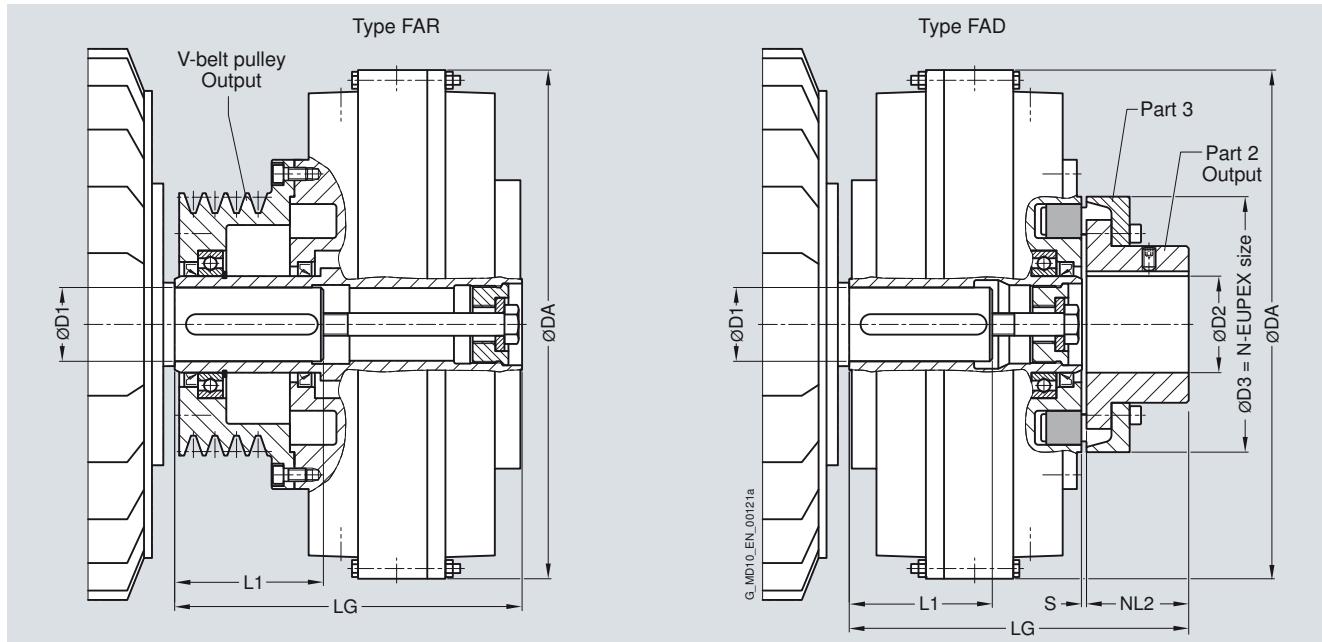
Fluid Couplings – FLUDEX Series

FLUDEX coupling as aid to starting IEC motors

Selection and ordering data

Speed $n = 1500 \text{ rpm}$

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 $+40^\circ\text{C}$.



| Three-phase motor Size P_M 1500 rpm | FLUDEX | | | Type FAR (with V-belt pulley) | | | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | | | Type FAD (with N-EUPEX D add-on coupling) max. with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | | | Weight m | | |
|---|--------|-------------|-----|---------------------------------------|-------------------|--|--|-------------------------------|--------------|--|-----|-----|-------------------------------------|-------------------------------------|-------------|
| | Size | Oil filling | DA | Pro- file, pitch \emptyset | No. of grooves | Recom- ended no. of belts ¹⁾ | LG | Product code | Weight kg | LG | NL2 | D3 | D2 ²⁾ | Product code | Weight m |
| 80 M 0.55 19 x 40 | 222 | 0.9 | 263 | SPZ 100 | 2 | 1 | 153 | 2LC0900-0AF90-0AA0 L0L | 12 | 180 | 40 | 110 | 38 | 2LC0900-0AA9 ■ -0AA0 L0L+M.. | 12 |
| 80 M 0.75 19 x 40 | | 1.0 | | SPZ 100 | 2 | 1 | | 2LC0900-0AF90-0AA0 L0L | | | | | 2LC0900-0AA9 ■ -0AA0 L0L+M.. | | |
| 90 S 1.1 24 x 50 | | 1.1 | | SPZ 100 | 2 | 1 | | 2LC0900-0AF90-0AA0 L0P | | | | | 2LC0900-0AA9 ■ -0AA0 L0P+M.. | | |
| 90 L 1.5 24 x 50 | | 1.2 | | SPZ 100 | 2 | 1 | | 2LC0900-0AF90-0AA0 L0P | | | | | 2LC0900-0AA9 ■ -0AA0 L0P+M.. | | |
| 100 L 2.2 28 x 60 | | 1.4 | | SPZ 100 | 2 | 2 | | 2LC0900-0AF90-0AA0 L0R | | | | | 2LC0900-0AA9 ■ -0AA0 L0R+M.. | | |
| 100 L 3 28 x 60 | | 1.5 | | SPZ 100 | 2 | 2 | | 2LC0900-0AF90-0AA0 L0R | | | | | 2LC0900-0AA9 ■ -0AA0 L0R+M.. | | |
| 112 M 4 28 x 60 | | 1.6 | | SPZ 160 | 3 | 2 | | 2LC0900-0AF91-0AA0 L0R | 14 | | | | 2LC0900-0AA9 ■ -0AA0 L0R+M.. | | |
| 132 S 5.5 38 x 80 | | 1.65 | | SPZ 160 | 3 | 2 | | 2LC0900-0AF91-0AA0 L0V | | | | | 2LC0900-0AA9 ■ -0AA0 L0V+M.. | | |

$\emptyset D2$: • Without finished bore
• With finished bore – With order codes for diameter and tolerance (product code without -Z)

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¹⁾ If the recommended number of belts is ..X, raw-edged belts are required.

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

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

FLUDEX coupling as aid to starting IEC motors

| Three-phase motor Size P_M 1500 rpm D1 x L1 | FLUDEX | | | Type FAR (with V-belt pulley) | | | | Type FAD (with N-EUPEX D add-on coupling) | | | | | | | |
|--|------------|-------------|-----|-----------------------------------|-------------------|---|-----|--|-------------|-----|-----|-----|------------------|--|-------------|
| | Size | Oil filling | DA | Pro-file, pitch \emptyset | No. of grooves | Recom- mended no. of belts ¹⁾ | LG | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m | LG | NL2 | D3 | D2 ²⁾ | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m |
| 132 M 7.5 38 x 80 | 297 | 3.2 | 340 | SPZ 150 | 5 | 3 | 226 | 2LC0900-1AF90-0AA0 L0V | 27 | 233 | 50 | 125 | 45 | 2LC0900-1AA9 ■ -0AA0 L0V+M.. | 24 |
| 160 M 11 42 x 110 | | 3.5 | | SPZ 150 | 5 | 4 | | 2LC0900-1AF90-0AA0 L0X | | | | | | 2LC0900-1AA9 ■ -0AA0 L0X+M.. | |
| 160 L 15 42 x 110 | | 3.8 | | SPZ 150 | 5 | 5 | | 2LC0900-1AF90-0AA0 L0X | | | | | | 2LC0900-1AA9 ■ -0AA0 L0X+M.. | |
| 180 M 18.5 48 x 110 | | 4.0 | | SPA 190 | 4 | 4 | | 2LC0900-1AF91-0AA0 L1B | 32 | | | | | 2LC0900-1AA9 ■ -0AA0 L1B+M.. | |
| 180 L 22 48 x 110 | 342 | 5.5 | 400 | SPA 180 | 5 | 5 | 278 | 2LC0900-2AF90-0AA0 L1B | 40 | 271 | 55 | 140 | 50 | 2LC0900-2AA9 ■ -0AA0 L1B+M.. | 34 |
| 200 L 30 55 x 110 | | 6.0 | | SPA 180 | 5 | 5X | | 2LC0900-2AF90-0AA0 L1D | | | | | | 2LC0900-2AA9 ■ -0AA0 L1D+M.. | |
| 225 S 37 60 x 140 | 395 | 7.6 | 448 | SPB 224 | 5 | 5 | 325 | 2LC0900-3AF90-0AA0 L1E | 63 | 299 | 90 | 225 | 85 | 2LC0900-3AA9 ■ -0AA0 L1E+M.. | 53 |
| 225 M 45 60 x 140 | | 7.9 | | SPB 224 | 5 | 5 | | 2LC0900-3AF90-0AA0 L1E | | | | | | 2LC0900-3AA9 ■ -0AA0 L1E+M.. | |
| 250 M 55 65 x 140 | | 8.4 | | SPB 224 | 5 | 5X | | 2LC0900-3AF90-0AA0 L1F | | | | | | 2LC0900-3AA9 ■ -0AA0 L1F+M.. | |
| 280 S 75 75 x 140 | 450 | 10.8 | 512 | SPB 250 | 8 | 7 | 410 | 2LC0900-4AF90-0AA0 L1H | 94 | 338 | 100 | 250 | 95 | 2LC0900-4AA9 ■ -0AA0 L1H+M.. | 70 |
| 280 M 90 75 x 140 | | 11.3 | | SPB 250 | 8 | 8 | | 2LC0900-4AF90-0AA0 L1H | | | | | | 2LC0900-4AA9 ■ -0AA0 L1H+M.. | |
| 315 S 110 80 x 170 | | 12.0 | | SPB 250 | 8 | 8X | | 2LC0900-4AF90-0AA0 L1J | | | | | | 2LC0900-4AA9 ■ -0AA0 L1J+M.. | |
| 315 M 132 80 x 170 | 516 | 17.7 | 584 | SPB 315 | 10 | 10 | 491 | 2LC0900-5AF90-0AA0 L1J | 152 | 398 | 125 | 315 | 120 | 2LC0900-5AA9 ■ -0AA0 L1J+M.. | 113 |
| 315 M 160 80 x 170 | | 18.6 | | SPB 315 | 10 | 10X | | 2LC0900-5AF90-0AA0 L1J | | | | | | 2LC0900-5AA9 ■ -0AA0 L1J+M.. | |

- $\emptyset D2$:
- Without finished bore for sizes 222 to 450 and 516 with small hub ($\emptyset D2$ max. 100 mm) – Without order code M..
 - Without finished bore only for size 516 with large hub ($\emptyset D2$ max. 88 ... 120 mm) – Without order code M..
 - With finished bore – With order codes for diameter and tolerance (product code without -Z)

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Delivery without oil filling: Without order code.

Delivery with oil filling (only above -20 °C): Product code with “-Z” and order codes “F16” and “Y90” with plain text specification of the oil filling quantity in liters.

Delivery with specification of oil filling quantity: Product code with “-Z” and order code “Y90” with plain text specification of the oil filling quantity in liters.

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

Other methods must be specified in the order using the product code with “-Z” and order code “Y99” with plain text specification.

Ordering example:

Drive with motor 200 L, 30 kW at 1470 rpm with starting clutch and pulley

Selection:

FLUDEX FAR 342 coupling, standard type,
Hollow shaft: Bore $\emptyset D1$ = 55H7 with keyway to DIN 6885/1 and
retaining screw,
with pulley 5xSPA Ø180.

Product code:

- Delivery without oil filling:
**2LC0900-2AF90-0AA0
L1D**
- Delivery with oil filling:
**2LC0900-1AF90-0AA0-Z
L1D+F16+Y90**
plain text to Y90: **6.0 I**
- Delivery with specification of oil filling quantity:
**2LC0900-1AF90-0AA0-Z
L1D+Y90**
plain text to Y90: **6.0 I**

¹⁾ If the recommended number of belts is ..X, raw-edged belts are required.

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

FLENDER Standard Couplings

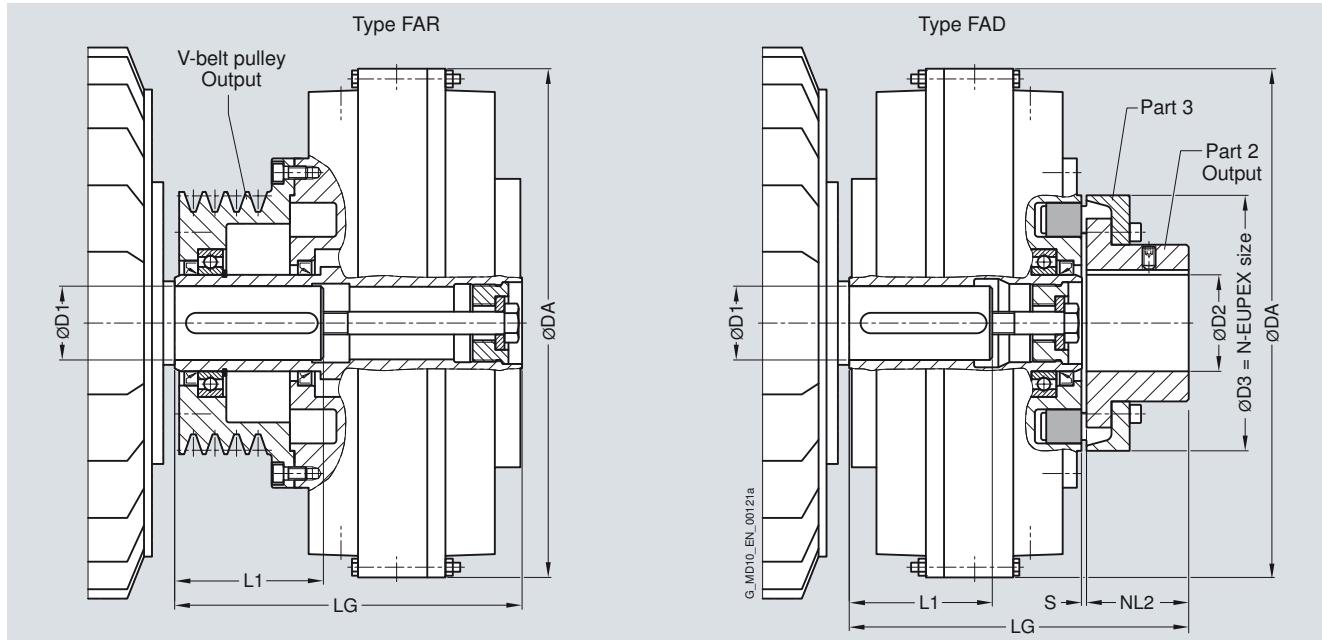
Fluid Couplings – FLUDEX Series

FLUDEX coupling as aid to starting IEC motors

Selection and ordering data

Speed $n = 3000 \text{ rpm}$

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 $+40^\circ\text{C}$.



| Three-phase motor | | FLUDEX | | Type FAR (with V-belt pulley) | | | | Type FAD (with N-EUPEX D add-on coupling) | | | | | | | | | |
|-------------------|----------------------|------------------------|----------------|-------------------------------|---------------------------------------|-------------------|---|---|--|---------------------------------|---------------------------------------|-----|----|-----------------|--|---------------------------------------|----|
| Size | P_M 3000 rpm | Size | Oil filling | DA | Pro- file, pitch \emptyset | No. of grooves | Recom- mended no. of belts ¹⁾ | LG | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m | LG | NL2 | D3 | $D2^2)$ max. | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m | |
| 90 S | 1.5 | 24 x 50 | 222 | 0.7 | 263 | SPZ 100 | 2 | 1 | 153 | 2LC0900-0AF90-0AA0-Z L0P+W03 | 12 | 180 | 40 | 110 | 38 | 2LC0900-0AA9 ■ -0AA0-Z L0P+M..+W03 | 12 |
| 90 L | 2.2 | 24 x 50 | | 0.8 | SPZ 100 | 2 | 1 | | 2LC0900-0AF90-0AA0-Z L0P+W03 | | 2LC0900-0AA9 ■ -0AA0-Z L0P+M..+W03 | | | | 2LC0900-0AA9 ■ -0AA0-Z L0R+M..+W03 | | |
| 100 L | 3 | 28 x 60 | | 0.9 | SPZ 100 | 2 | 1 | | 2LC0900-0AF90-0AA0-Z L0R+W03 | | 2LC0900-0AA9 ■ -0AA0-Z L0R+M..+W03 | | | | 2LC0900-0AA9 ■ -0AA0-Z L0R+M..+W03 | | |
| 112 M | 4 | 28 x 60 | | 1.0 | SPZ 100 | 2 | 2 | | 2LC0900-0AF90-0AA0-Z L0R+W03 | | 2LC0900-0AA9 ■ -0AA0-Z L0V+W03 | | | | 2LC0900-0AA9 ■ -0AA0-Z L0R+M..+W03 | | |
| 132 S | 5.5 | 38 x 80 | | 1.0 | SPZ 100 | 2 | 2 | | 2LC0900-0AF90-0AA0-Z L0V+W03 | | 2LC0900-0AA9 ■ -0AA0-Z L0V+M..+W03 | | | | 2LC0900-0AA9 ■ -0AA0-Z L0V+M..+W03 | | |
| 132 S | 7.5 | 38 x 80 | | 1.1 | SPZ 160 | 3 | 2 | | 2LC0900-0AF91-0AA0-Z L0V+W03 | 14 | 2LC0900-0AA9 ■ -0AA0-Z L0V+M..+W03 | | | | 2LC0900-0AA9 ■ -0AA0-Z L0V+M..+W03 | | |
| 160 M | 11 | 42 ³⁾ x 110 | | 1.2 | SPZ 160 | 3 | 2 | | 2LC0900-0AF91-0AA0-Z L0X+W03 | | 2LC0900-0AA9 ■ -0AA0-Z L0X+M..+W03 | | | | 2LC0900-0AA9 ■ -0AA0-Z L0X+M..+W03 | | |
| 160 M | 15 | 42 ³⁾ x 110 | | 1.3 | SPZ 160 | 3 | 3 | | 2LC0900-0AF91-0AA0-Z L0X+W03 | | 2LC0900-0AA9 ■ -0AA0-Z L0X+M..+W03 | | | | 2LC0900-0AA9 ■ -0AA0-Z L0X+M..+W03 | | |
| 160 L | 18.5 | 42 ³⁾ x 110 | | 1.4 | SPZ 160 | 3 | 3 | | 2LC0900-0AF91-0AA0-Z L0X+W03 | | 2LC0900-0AA9 ■ -0AA0-Z L0X+M..+W03 | | | | 2LC0900-0AA9 ■ -0AA0-Z L0X+M..+W03 | | |

$\emptyset D2$: • Without finished bore – Without order code M..

• With finished bore – With order codes for diameter and tolerance (product code without -Z)

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¹⁾ If the recommended number of belts is ..X, raw-edged belts are required.

³⁾ Variant with shallow keyway to DIN 6885/3.

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

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

FLUDEX coupling as aid to starting IEC motors

| Three-phase motor | | FLUDEX | | | Type FAR (with V-belt pulley) | | | | | Type FAD (with N-EUPEX D add-on coupling) | | | | | | |
|-------------------|----------------|------------------------|-------------|-----|-------------------------------|----------------|--|-------|---|---|-----|-----|-----|------------------------------------|---|----------|
| Size | P _M | Size | Oil filling | DA | Pro- file, pitch Ø | No. of grooves | Recom- mended no. of belts ¹⁾ | LG | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m | LG | NL2 | D3 | D2 ²⁾ max. | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m |
| 180 M | 22 | 48 x 110 | 297 | 2.5 | 340 SPZ 150 | 5 | 4 | 226 | 2LC0900-1AF90-0AA0-Z L1B+W03 | 27 | 233 | 50 | 125 | 45 | 2LC0900-1AA9 ■ -0AA0-Z L1B+M..+W03 | 24 |
| 200 L | 30 | 55 x 110 | | 2.7 | SPZ 150 | 5 | 5 | | 2LC0900-1AF90-0AA0-Z L1D+W03 | | | | | 2LC0900-1AA9 ■ -0AA0-Z L1D+M..+W03 | | |
| 200 L | 37 | 55 x 110 | | 2.8 | SPA 190 | 4 | 4 | | 2LC0900-1AF91-0AA0-Z L1D+W03 | 32 | | | | 2LC0900-1AA9 ■ -0AA0-Z L1D+M..+W03 | | |
| 225 M | 45 | 55 x 110 | | 2.9 | SPA 224 | 5 | 4 | | 2LC0900-1AF92-0AA0-Z L1D+W03 | 35 | | | | 2LC0900-1AA9 ■ -0AA0-Z L1D+M..+W03 | | |
| 250 M | 55 | 60 ³⁾ x 140 | | 3.1 | SPA 224 | 5 | 5 | | 2LC0900-1AF92-0AA0-Z L1E+W03 | | | | | 2LC0900-1AA9 ■ -0AA0-Z L1E+M..+W03 | | |
| 280 S | 75 | 65 x 140 | 395 | 5.3 | 448 SPB 236 | 7 | 5 | 363.5 | 2LC0900-3AF91-0AA0-Z L1F+W03 | 70 | 299 | 90 | 225 | 85 | 2LC0900-3AA9 ■ -0AA0-Z L1F+M..+W03 | 53 |
| 280 M | 90 | 65 x 140 | | 5.6 | SPB 236 | 7 | 6 | | 2LC0900-3AF91-0AA0-Z L1F+W03 | | | | | 2LC0900-3AA9 ■ -0AA0-Z L1F+M..+W03 | | |
| 315 S | 110 | 65 x 140 | | 5.9 | SPB 236 | 7 | 7 | | 2LC0900-3AF91-0AA0-Z L1F+W03 | | | | | 2LC0900-3AA9 ■ -0AA0-Z L1F+M..+W03 | | |
| 315 M | 132 | 65 x 140 | | 6.2 | SPB 236 | 7 | 7X | | 2LC0900-3AF91-0AA0-Z L1F+W03 | | | | | 2LC0900-3AA9 ■ -0AA0-Z L1F+M..+W03 | | |
| 315 L | 160 | 65 x 140 | | 6.8 | SPB 280 | 7 | 7X | | 2LC0900-3AF92-0AA0-Z L1F+W03 | 83 | | | | 2LC0900-3AA9 ■ -0AA0-Z L1F+M..+W03 | | |

ØD2: • Without finished bore – Without order code M..

• With finished bore – With order codes for diameter and tolerance (product code without -Z)

Delivery without oil filling: Without order code.

Delivery with oil filling (only above -20 °C): Product code with “-Z” and order codes “F16” and “Y90” with plain text specification of the oil filling quantity in liters.

Delivery with specification of oil filling quantity: Product code with “-Z” and order code “Y90” with plain text specification of the oil filling quantity in liters.

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

Other methods must be specified in the order using the product code with “-Z” and order code “Y99” with plain text specification.

Ordering example:

Drive with motor 280 M, 90 kW at 2950 rpm with starting clutch for connecting two shafts.

Selection:

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.

Product code:

- Delivery without oil filling:
2LC0900-3AA99-0AA0-Z L1F+M1E+W03
- Delivery with oil filling:
2LC0900-3AA99-0AA0-Z L1F+M1E+W03+F16+Y90
plain text to Y90: **5.6 l**
- Delivery with specification of oil filling quantity:
2LC0900-3AA99-0AA0-Z L1F+M1E+W03+Y90
plain text to Y90: **5.6 l**

¹⁾ If the recommended number of belts is ..X, raw-edged belts are required.

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

³⁾ Variant with shallow keyway to DIN 6885/3.

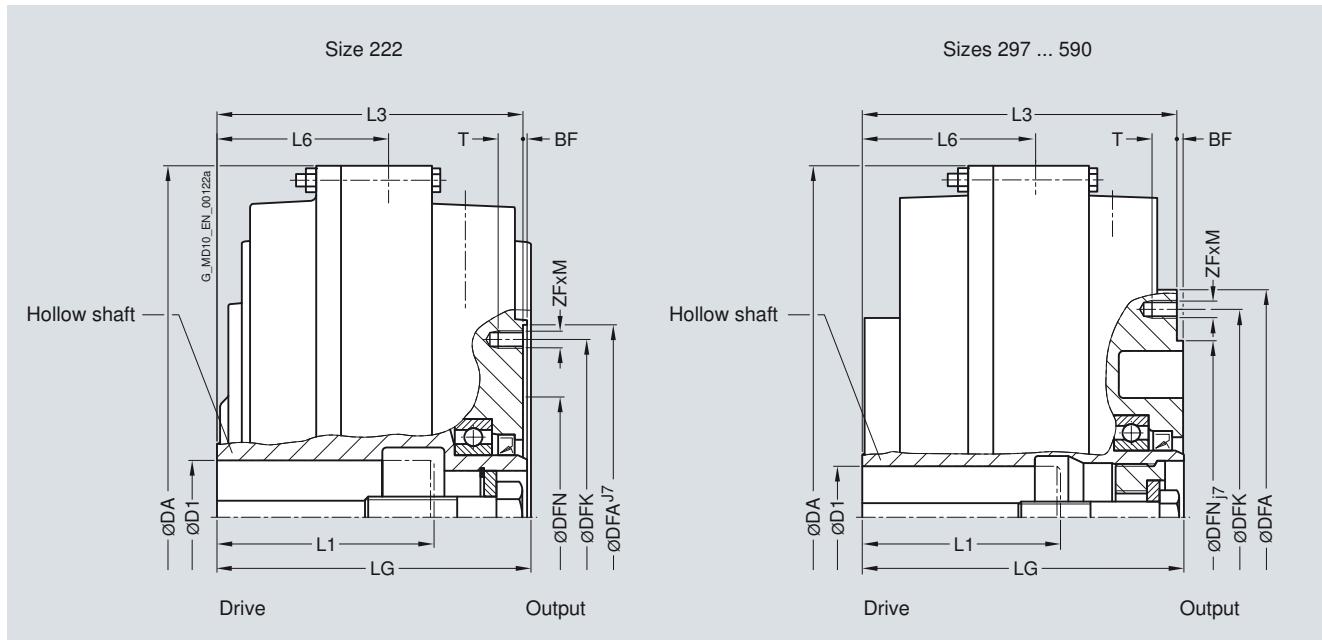
FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Type FAO

Selection and ordering data

Basic coupling of the FA series with connecting flange.



| Size | Maximum speed n_{Kmax} | Dimensions in mm | | | | | | | | | | Flange connection | | | | | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m |
|---|-----------------------------|--|-------------------|-----|-----|-----|-------|-------|-----|-----|-----|-------------------|---------|-----|---------------------------|---------------------------|--|-------------|
| | | D1 | L1 | DA | LG | L3 | L6 | DFN | DFA | BF | DFK | ZF x M | T | | | | | |
| Keyway to DIN 6885 max. min. max. Preferred bore | | | | | | | | | | | | | | | | | | |
| 222 | 3600 | 38 (>38 ¹⁾ 42 ¹⁾ | 28 | 80 | 263 | 112 | 110 | 58 | 90 | 144 | 2 | 128 | 6 x M8 | 12 | 18.7 | 2LC0900-0AG90-0AA0 L.. | 10 | |
| 297 | 3600 | 38 (>38 55 (>55 ¹⁾ 60 ¹⁾ | 42 110 | 80 | 340 | 150 | 145 | 83 | 125 | 195 | 3 | 172 | 6 x M8 | 12 | 18.7 | 2LC0900-1AG90-0AA0 L.. | 18 | |
| 342 | 3600 | 55 (>55 ¹⁾ 60 ¹⁾ | 48 + 55 110 | 110 | 400 | 180 | 174 | 101 | 140 | 230 | 4 | 205 | 8 x M10 | 15 | 31 | 2LC0900-2AG90-0AA0 L.. | 26 | |
| 395 | 3000 | 65 | 60 + 65 | 140 | 448 | 205 | 200.5 | 110.5 | 225 | 290 | 4 | 265 | 8 x M12 | 18 | 54 | 2LC0900-3AG90-0AA0 L.. | 40 | |
| 450 | 3000 | 75 (>75 80 | 65 + 75 170 | 140 | 512 | 233 | 228 | 126 | 250 | 310 | 4 | 285 | 8 x M12 | 18 | 54 | 2LC0900-4AG90-0AA0 L.. | 53 | |
| 516 | 2300 | 55 (>55 90 | 140 80 | 584 | 270 | 263 | 147 | 315 | 390 | 5 | 360 | 8 x M16 | 24 | 135 | 2LC0900-5AG90-0AA0 L.. | 84 | | |
| 590 | 2000 | 75 (>75 95 (>95 100 | 140 170 210 | 662 | 305 | 298 | 166 | 315 | 390 | 5 | 360 | 8 x M16 | 24 | 135 | 2LC0900-6AG90-0AA0 L.. | 109 | | |

Ordering example:

Motor 37 kW, $P_{eff} = 30$ kW, $n_1 = 1470$ rpm, maximum output torque: $T_{max} = 2.0 \times T_{eff}$.

Selection:

FLUDEX FAO coupling size 342,
Hollow shaft: Bore $\emptyset D1 = 60H7$ mm with keyway to DIN 6885/3
and retaining screw,

seal set Viton.

Specification of oil filling quantity: 6.0 l (see under oil filling quantities for the FA series in this catalog section).

Product code:

- With 110 °C fuse:
**2LC0900-2AG90-0AA0-Z
L1E+Y90+F05**

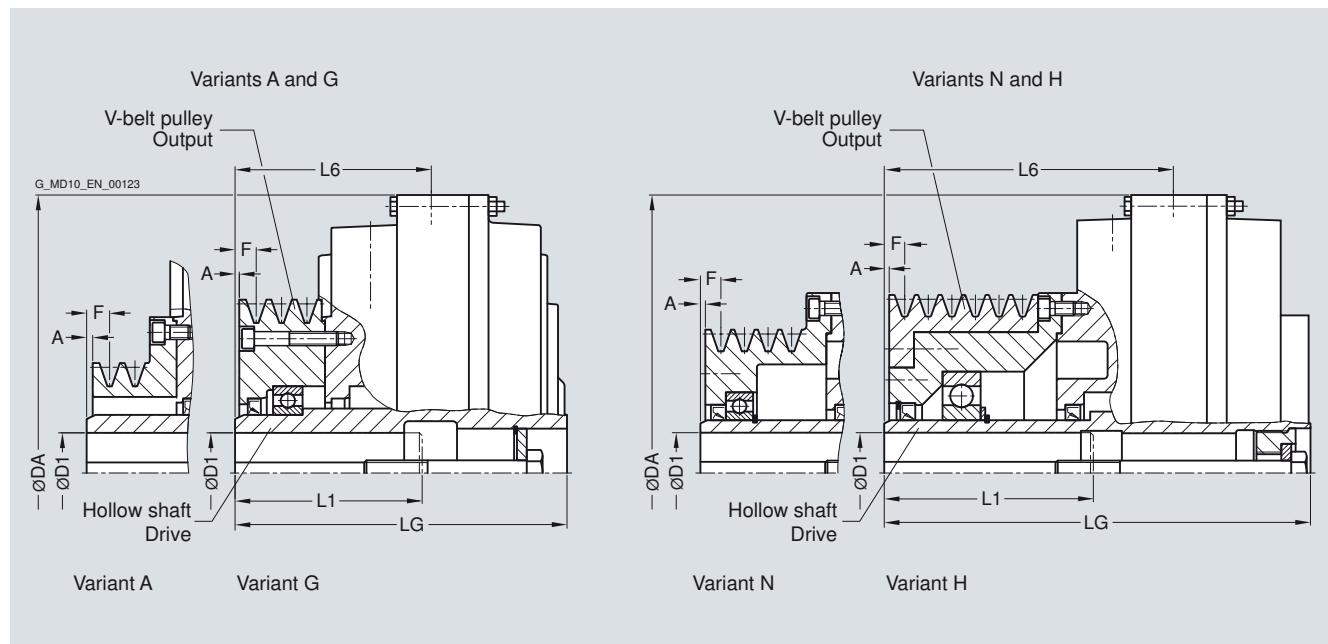
plain text to Y90: **6.0 l**

- With 140 °C fuse:
**2LC0900-2AG90-0AA0-Z
L1E+Y90+F07**

plain text to Y90: **6.0 l**

¹⁾ Variant with shallow keyway to DIN 6885/3.

Selection and ordering data



| Size | Maximum speed n_{Kmax} rpm | Dimensions in mm | | | | | | | V-belt pulley | | | | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m |
|------------|------------------------------------|----------------------------------|----------------------------------|---------|-----|-------|-------|----------------------------|----------------------|---|------|---------|---|--------------------|
| | | D1 Keyway to DIN 6885 min. | D1 Keyway to DIN 6885 max. | L1 | DA | LG | L6 | Profile, pitch diameter | No. of grooves | A | F | Variant | | |
| 222 | 3600 | 28 | 28 | 60 | 263 | 153 | 95 | SPZ 100 | 2 | 1 | 9 | A | 2LC0900-0AF90-0AA0 L.. | kg 12 |
| | | >28 | 38 | | 105 | | | SPZ 160 | 3 | | | G | 2LC0900-0AF91-0AA0 L.. | |
| 297 | 3600 | 38 | | 80 | 340 | 226 | 143 | SPZ 150 | 5 | 2 | 10 | N | 2LC0900-1AF90-0AA0 L.. | 27 |
| | | >38 | 55 | 42 | 110 | | | SPZ 150 | 5 | 2 | | N | 2LC0900-1AF90-0AA0 L.. | 27 |
| | | >55 ¹⁾ | 59 ¹⁾ | | 110 | | | SPA 190 | 4 | 0 | | H | 2LC0900-1AF91-0AA0 L.. | 32 |
| | | >59 ¹⁾ | 60 ¹⁾ | | 140 | | | SPA 224 | 5 | 0 | | G | 2LC0900-1AF92-0AA0 L.. | 35 |
| 342 | 3600 | 55 | 55 | 110 | 400 | 278 | 177 | SPA 180 | 5 | 4 | 14 | N | 2LC0900-2AF90-0AA0 L.. | 40 |
| 395 | 3000 | 55 | | 110 | 448 | 325 | 214.5 | SPB 224 | 5 | 4 | 16.5 | N | 2LC0900-3AF90-0AA0 L.. | 63 |
| | | >55 | 65 | 60 + 65 | 140 | | | SPB 236 | 7 | | | N | 2LC0900-3AF91-0AA0 L.. | 70 |
| | | 55 | | 110 | 448 | 363.5 | 253 | SPB 280 | 7 | | | H | 2LC0900-3AF92-0AA0 L.. | 83 |
| 450 | 3000 | 55 | | 110 | 512 | 410 | 284 | SPB 250 | 8 | 4 | 16.5 | N | 2LC0900-4AF90-0AA0 L.. | 94 |
| | | >55 | 75 | 65 + 75 | 140 | | | | | | | | | |
| | | >75 | 80 | | 170 | | | | | | | | | |
| 516 | 2300 | 55 | | 110 | 584 | 491 | 344 | SPB 315 | 10 | 4 | 16.5 | N | 2LC0900-5AF90-0AA0 L.. | 152 |
| | | >55 | 75 | | 140 | | | | | | | | | |
| | | >75 | 95 | | 170 | | | | | | | | | |
| | | >95 | 100 | | 210 | | | | | | | | | |
| 590 | 2000 | 55 | | 110 | 662 | 642 | 476 | SPC 315 | 12 | 4 | 21 | N | 2LC0900-6AF90-0AA0 L.. | 208 |
| | | >55 | 75 | | 140 | | | | | | | | | |
| | | >75 | 95 | | 170 | | | | | | | | | |
| | | >95 | 100 | | 210 | | | | | | | | | |

General specifications and ordering instructions on page 13/10, 13/11. **Ordering example on page 13/24.**¹⁾ Variant with shallow keyway to DIN 6885/3.

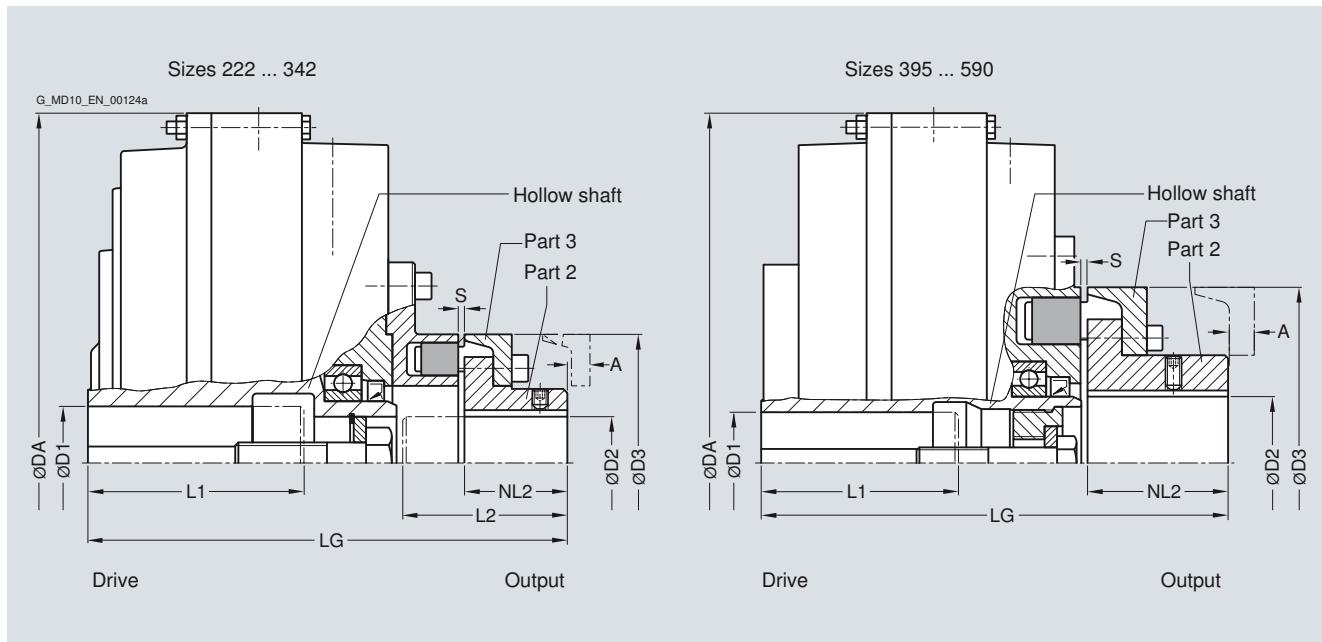
FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Type FAD

Selection and ordering data

Type with attached N-EUPEX D coupling. Enables change of flexible elements without axial displacement of the shafts if the space "A" is provided.



| Size | Maximum speed n_{Kmax} | Dimensions in mm | | | | | | | | | | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m | | |
|------|-----------------------------|--------------------------|---|-------------------|-----|------------|------------|-------------|-----|-------|-------|---|---------------------------------|-----|--|
| | | N-EUPEX D coupling | | | | | | | | | | | | | |
| | | D1 Keyway to DIN 6885 | L1 max. | DA | LG | D2 max. | L2 max. | NL2 max. | D3 | S | A | | | | |
| rpm | | | | | | | | | | | | | | | |
| 222 | 3600 | 38 >38 ¹⁾ | 28 42 ¹⁾ | 80 | 263 | 180 | 38 | 65 | 40 | 110 | 2...4 | 13 | 2LC0900-0AA9 ■ -0AA0 L..+M.. | 12 | |
| 297 | 3600 | 38 >38 | 80 55 42 >55 ¹⁾ 60 ¹⁾ | 340 110 110 | 233 | 45 | 80 | 50 | 125 | 2...4 | 11 | | 2LC0900-1AA9 ■ -0AA0 L..+M.. | 24 | |
| 342 | 3600 | 55 >55 ¹⁾ | 48 + 55 60 ¹⁾ | 110 120 | 400 | 271 | 50 | 88 | 55 | 140 | 2...4 | 16 | 2LC0900-2AA9 ■ -0AA0 L..+M.. | 34 | |
| 395 | 3000 | 65 | 60 + 65 | 140 | 448 | 299 | 85 | 90 | 90 | 225 | 3...6 | 9 | 2LC0900-3AA9 ■ -0AA0 L..+M.. | 53 | |
| 450 | 3000 | 75 >75 | 65 + 75 80 | 140 170 | 512 | 338 | 95 | 100 | 100 | 250 | 3...8 | 11 | 2LC0900-4AA9 ■ -0AA0 L..+M.. | 70 | |
| 516 | 2300 | 55 >55 | 140 90 80 | 584 170 170 | 398 | 120 | 125 | 125 | 315 | 3...8 | 0 | | 2LC0900-5AA9 ■ -0AA0 L..+M.. | 113 | |
| 590 | 2000 | 75 >75 >95 | 140 170 100 | 662 170 210 | 433 | 120 | 125 | 125 | 315 | 3...8 | 0 | | 2LC0900-6AA9 ■ -0AA0 L..+M.. | 138 | |

- ØD2:
- Without finished bore for sizes 222 to 450, 516 and 590 with small hub ($\varnothing D2$ max. 100 mm) – Without order code M..
 - Without finished bore only for sizes 516 and 590 with large hub ($\varnothing D2$ max. 88 ... 120 mm) – Without order code M..
 - With finished bore – With order codes for diameter and tolerance (product code without -Z)

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Ordering example:

Motor 160 kW, $P_{eff} = 132$ kW, $n_1 = 1470$ rpm, maximum output torque: $T_{max} = 2.0 \times T_{eff}$.

Selection:

FLUDEX FAD coupling size 516,

Hollow shaft: Bore $\varnothing D1 = 80H7$ mm with keyway to DIN 6885/1

and retaining screw,

Part 2: with finished bore $\varnothing D2 = 80H7$

Specification of oil filling quantity: 16.9 l (see under oil filling quantities for the FA series in this catalog section).

Product code:

2LC0900-5AA99-0AA0-Z

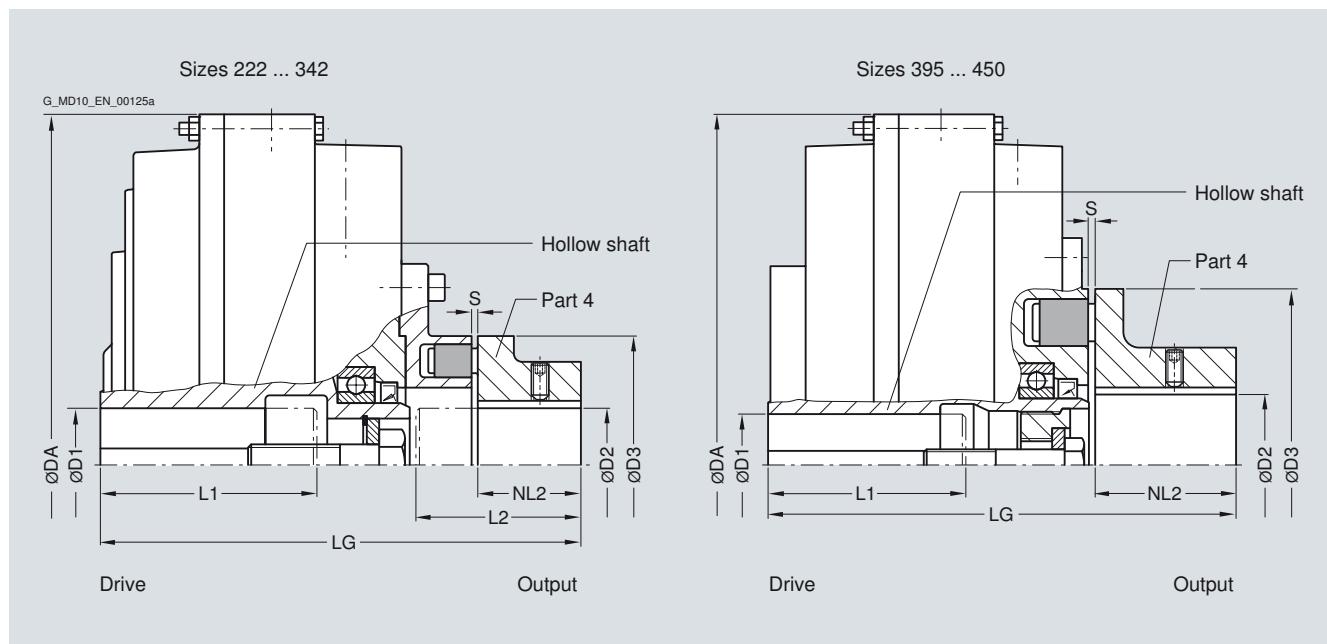
L1J+M1J+Y90

plain text to Y90: **16.9 l**

¹⁾ Variant with shallow keyway to DIN 6885/3.

Selection and ordering data

Type with attached N-EUPEX E coupling. Enables larger bores on the output side.



| Size | Maximum speed n_{Kmax} | Dimensions in mm | | | | | | | | | | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m | | |
|------------------------------------|-----------------------------|---|-----------------------------|--------------------|------------|--------------|-----|-----|-----|-------|---------------------------------|--|---------------|--|--|
| | | FLUDEX coupling | | N-EUPEX E coupling | | N-EUPEX size | | | | | | | | | |
| D1 Keyway to DIN 6885 | | L1 max. | DA | LG | D2 max. | L2 max. | NL2 | D3 | S | | | | | | |
| min. max. Preferred bore | | | | | | | | | | | | | | | |
| 222 | 3600 | 38 (>38 ¹⁾ 42 ¹⁾) | 28 | 80 | 263 | 180 | 48 | 65 | 40 | 110 | 2...4 | 2LC0900-0AB9 ■ -0AA0 L..+M.. | 12 | | |
| 297 | 3600 | 38 (>38) 55 (>55 ¹⁾ 60 ¹⁾) | 80 42 110 110 | 340 | 233 | 55 | 80 | 50 | 125 | 2...4 | 2LC0900-1AB9 ■ -0AA0 L..+M.. | 24 | | | |
| 342 | 3600 | 55 (>55 ¹⁾ 60 ¹⁾) | 48 + 55 110 120 | 400 | 271 | 60 | 88 | 55 | 140 | 2...4 | 2LC0900-2AB9 ■ -0AA0 L..+M.. | 34 | | | |
| 395 | 3000 | 65 | 60 + 65 140 | 448 | 299 | 90 | 90 | 90 | 225 | 3...6 | 2LC0900-3AB9 ■ -0AA0 L..+M.. | 50 | | | |
| 450 | 3000 | 75 (>75) | 65 + 75 140 80 170 | 512 | 338 | 100 | 100 | 100 | 250 | 3...8 | 2LC0900-4AB9 ■ -0AA0 L..+M.. | 68 | | | |

ØD2:
 • Without finished bore – Without order codes
 • With finished bore – With order codes for diameter and tolerance (product code without -Z)

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Ordering example:

Motor 45 kW, $P_{eff} = 42$ kW, $n_1 = 2950$ rpm

Selection:

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 with keyway to DIN 6885/1 and
 set screw,
 with micro-balancing (high speed),
 with electronic or mechanical operation monitoring, seal set
 Perbunan.
 Delivery without oil filling, no oil filling quantity specification.

Product code:

- With 110 °C thermal switch:
2LC0900-2AB99-0AA0-Z
L1D+M1E+W03+F03
 plain text to Y90: **16.9 l**
- With 125 °C EOC transmitter:
2LC0900-2AB99-0AA0-Z
L1D+M1E+W03+F04

¹⁾ Variant with shallow keyway to DIN 6885/3.

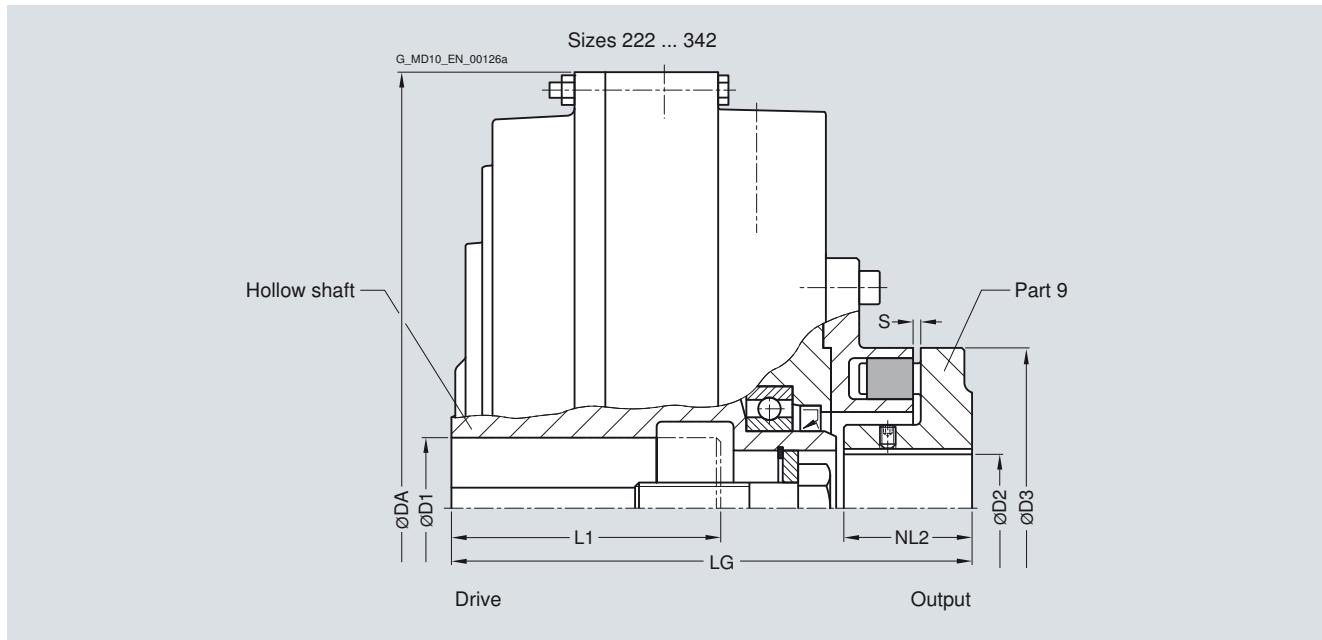
FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Type FAM

Selection and ordering data

Type with attached N-EUPEX M coupling. Enables a short fitting length.



| Size | Maximum speed n_{Kmax} | Dimensions in mm | | | | | | | | | | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m | |
|--------------------------|-----------------------------|--|------------------------|--------------------|------------|-----|----|-----|--------------|---------------------------------|---------------------------------|--|-------------------------|--|
| | | FLUDEX coupling | | N-EUPEX M coupling | | | | | N-EUPEX size | | | | | |
| D1 Keyway to DIN 6885 | | L1 max. | DA | LG | D2 max. | NL2 | D3 | S | | | | | | |
| min. 3600 | | max. 38 42 ¹⁾ | Preferred bore | | | | | | | | | In standard type available ex stock | Available at short term | |
| 222 | 3600 | 38 >38 ¹⁾ 42 ¹⁾ | 28 | 80 | 263 | 150 | 38 | 36 | 110 | 2...4 | 2LC0900-0AH9 ■ -0AA0 L..+M.. | 12 | | |
| 297 | 3600 | 38 >38 55 >55 ¹⁾ 60 ¹⁾ | 80 42 110 110 | 340 | 203 | 48 | 50 | 125 | 2...4 | 2LC0900-1AH9 ■ -0AA0 L..+M.. | 24 | | | |
| 342 | 3600 | 55 >55 ¹⁾ 60 ¹⁾ | 48 + 55 110 120 | 110 | 400 | 238 | 52 | 55 | 140 | 2...4 | 2LC0900-2AH9 ■ -0AA0 L..+M.. | 34 | | |

ØD2: • Without finished bore – Without order codes

• With finished bore – With order codes for diameter and tolerance (product code without -Z)

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Ordering example:

Motor 37 kW, $P_{eff} = 30$ kW, $n_1 = 1470$ rpm

Selection:

FLUDEX FAM coupling size 342,

Hollow shaft: Bore ØD1 = 60H7 mm with keyway to DIN 6885/1

and retaining screw,

Part 9: Bore ØD2 = 50H7 mm with keyway to DIN 6885/1 and set screw.

Delivery without oil filling, no oil filling quantity specification.

Product code:

- With drive via hollow shaft:

2LC0900-2AH99-0AA0-Z

L1E+M1C

plain text to Y90: **16.9 I**

- With drive via housing:

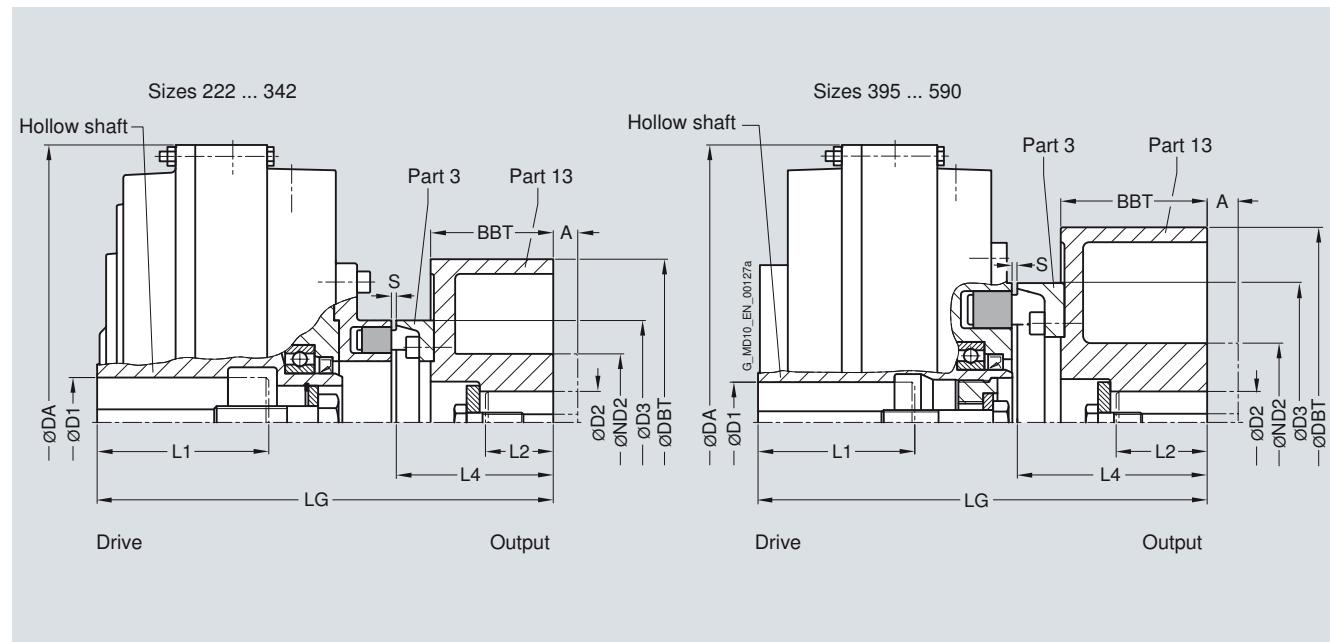
2LC0900-2AH99-0AA0-Z

L1E+M1C+F23

¹⁾ Variant with shallow keyway to DIN 6885/3.

Selection and ordering data

Type with attached N-EUPEX coupling and brake drum.



| Size | Maximum speed n_{kmax} rpm | Dimensions in mm | | | | | | Product code | | | | | | Weight kg |
|------|------------------------------------|-------------------------|-------------------------|-------------------|------------------|-----|-------|--------------|-----|-----|---|-----|-----|---|
| | | FLUDEX coupling | | | N-EUPEX coupling | | | Part 13 | | | with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | | | |
| 222 | 3600 | 38 >38 ¹⁾ | 80 42 ¹⁾ | 263 | 232 | 110 | 2...4 | 92 | 42 | 84 | 200 | 75 | 30 | 2LC0900-0AC9 ■ -0 ■ A0-Z 17 L..+M..+Y.. |
| 297 | 3600 | 38 >38 | 80 55 | 340 110 | 279 | 125 | 2...4 | 96 | 55 | 84 | 200 | 75 | 30 | 2LC0900-1AC9 ■ -0 ■ A0-Z 29 L..+M..+Y.. |
| 342 | 3000 | 55 >55 ¹⁾ | 110 60 ¹⁾ | 400 120 | 337 | 140 | 2...4 | 121 | 60 | 128 | 250 | 95 | 50 | 2LC0900-2AC9 ■ -0 ■ A0-Z 48 L..+M..+Y.. |
| 395 | 2400 | 65 | 140 | 448 | 362 | 225 | 3...6 | 153 | 80 | 128 | 315 | 118 | 50 | 2LC0900-3AC9 ■ -0 ■ A0-Z 71 L..+M..+Y.. |
| 450 | 2400 | 75 >75 | 140 80 | 512 170 | 395 | 250 | 3...8 | 157 | 80 | 128 | 315 | 118 | 50 | 2LC0900-4AC9 ■ -0 ■ A0-Z 86 L..+M..+Y.. |
| 516 | 1900 | 55 >55 | 140 90 | 584 170 | 466 | 315 | 3...8 | 193 | 100 | 160 | 400 | 150 | 80 | 2LC0900-5AC9 ■ -0 ■ A0-Z 146 L..+M..+Y.. |
| 590 | 1500 ²⁾ | 75 >75 >95 | 140 95 100 | 662 170 210 | 540 | 315 | 3...8 | 232 | 110 | 175 | 500 | 190 | 110 | 2LC0900-6AC9 ■ -0 ■ A0-Z 207 L..+M..+Y.. |

ØD2: • Without finished bore – Without order codes

• With finished bore – With order codes for diameter and tolerance (product code without -Z)

Part 13 • Standard brake drum, without extension A

• Long brake drum (increase of lengths L4 and LG by the amount A)

L2 denotes the shaft insertion depth.

In the case of shaft ends deviating from DIN 748 the insertion depth must be specified in plain text with **Y29**.

For ordering example, see page 13/24.

¹⁾ Variant with shallow keyway to DIN 6885/3.

²⁾ With version of brake drum in grey cast iron: Maximum speed 1800 rpm possible.

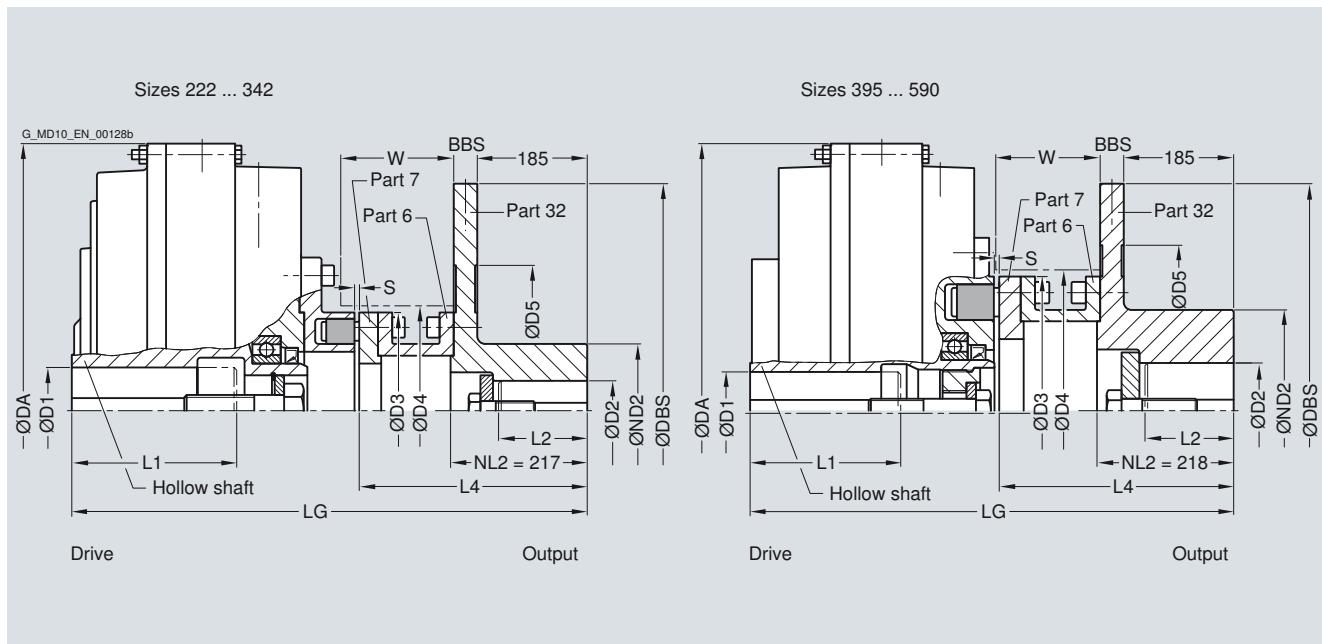
FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Type FADS SB

Selection and ordering data

Type with attached N-EUPEX coupling and brake drum for stopping brakes.



| Size | Maxi-mum speed n_{kmax} rpm | Dimensions in mm FLUDEX coupling | | | | N-EUPEX coupling | | | | Part 32 ¹⁾ | | | | Space dimensions | | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m | |
|------|-------------------------------------|---|------------------|-----|-------|-----------------------|-------|-------|------------|-----------------------|-----|-----|-----|------------------|-----|--|---------------------------------|-----|
| | | D1 Keyway to DIN 6885 min. | L1 max. | DA | LG | D3 N-EUPEX size | S | L4 | D2 max. | ND2 | DBS | BBS | D5 | D4 | W | | | |
| 222 | 3000 | 38 >38 ²⁾ 42 ²⁾ | 80 | 263 | 494 | 110 | 5...6 | 352 | 42 | 100 | 315 | 30 | 165 | 115 | 149 | 2LC0900-0AD9 ■ -0AA0 L..+M.. | 35 | |
| 297 | 2600 | 38 >38 55 60 ²⁾ | 80 110 110 | 340 | 537 | 125 | 5...6 | 352 | 60 | 120 | 355 | 30 | 205 | 130 | 154 | 2LC0900-1AD9 ■ -0AA0 L..+M.. | 68 | |
| 342 | 2300 | 55 >55 ²⁾ 60 ²⁾ | 110 120 | 400 | 570 | 140 | 5...6 | 352 | 60 | 120 | 400 | 30 | 250 | 145 | 155 | 2LC0900-2AD9 ■ -0AA0 L..+M.. | 83 | |
| 395 | 2100 | | 65 | 140 | 448 | 602 | 225 | 6...7 | 391.5 | 80 | 150 | 450 | 30 | 300 | 230 | 182 | 2LC0900-3AD9 ■ -0AA0 L..+M.. | 102 |
| 450 | 1700 | 75 >75 | 140 80 | 512 | 631.5 | 250 | 8...9 | 390.5 | 90 | 160 | 560 | 30 | 370 | 260 | 182 | 2LC0900-4AD9 ■ -0AA0 L..+M.. | 141 | |
| 516 | 1500 | 55 >55 | 140 90 | 584 | 706.5 | 315 | 8...9 | 430.5 | 100 | 160 | 630 | 30 | 440 | 325 | 222 | 2LC0900-5AD9 ■ -0AA0 L..+M.. | 199 | |
| 590 | 1500 | 75 >75 >95 | 140 95 100 | 662 | 741.5 | 315 | 8...9 | 430.5 | 100 | 160 | 630 | 30 | 440 | 325 | 222 | 2LC0900-6AD9 ■ -0AA0 L..+M.. | 224 | |

$\varnothing D2$: Without finished bore – Without order codes

With finished bore – With order codes for diameter and tolerance (product code without -Z)

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Ordering example:

Motor 90 kW, $P_{eff} = 75$ kW, $n_1 = 1470$ rpm

Product code:

with preservation 24 months:

2LC0900-4AD99-0AA0-Z

L1H+M1J+B28+Y29

plain text Y29: **L2 = 90 mm**

Selection:
FLUDEX FADS SB coupling size 450,
Hollow shaft: Bore $\varnothing D1 = 75H7$ mm with keyway to DIN 6885/1 and retaining screw,
Part 32: Bore $\varnothing D2 = 80H7$ mm with keyway to DIN 6885/1 and retaining screw,
with preservative suitable for storage indoors,
shaft end insertion depth $L2 = 90$ mm.
Delivery without oil filling, no oil filling quantity specification.

$L2$ denotes the shaft insertion depth.

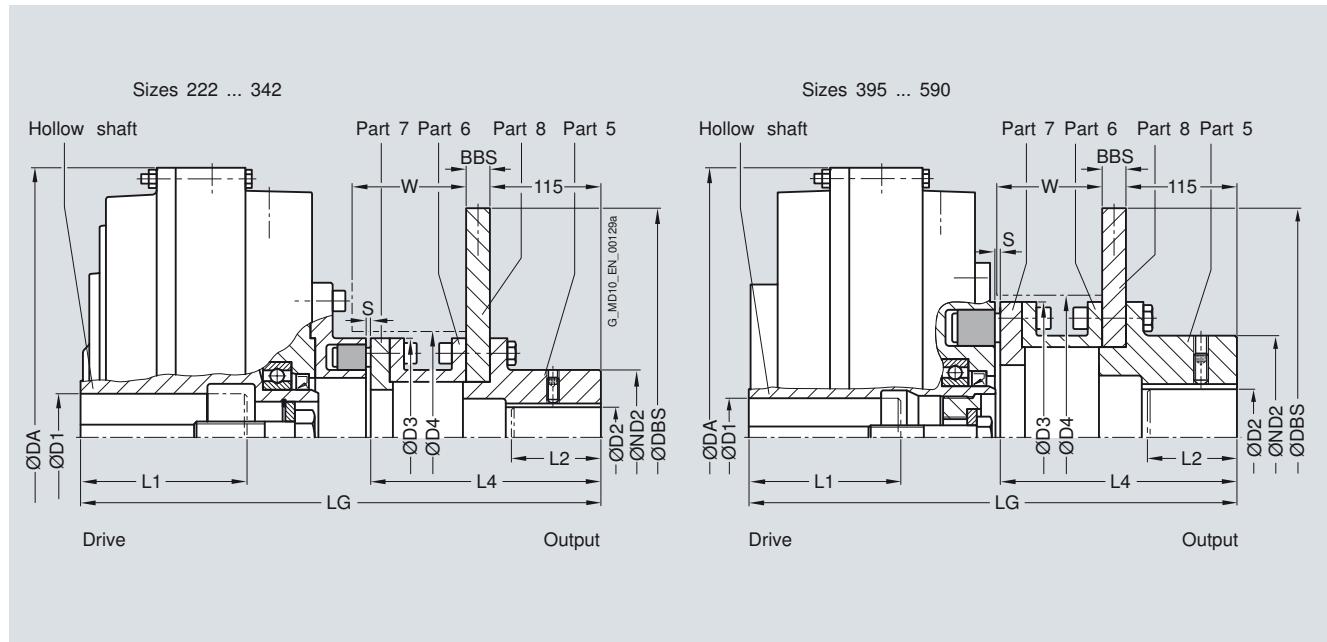
In the case of shaft ends deviating from DIN 748 the insertion depth must be specified in plain text with **Y29**.

¹⁾ Hub reduction possible; specify product code with “-Z” and order code “**Y99**” with dimension NL2 in plain text..

²⁾ Variant with shallow keyway to DIN 6885/3.

Selection and ordering data

Type with attached N-EUPEX coupling and brake disk for blocking brakes.



| Size | Maxi-mum speed n_{kmax} rpm | Dimensions in mm FLUDEX coupling | | | | N-EUPEX coupling | | | | Part 5/8 ¹⁾ | | | | Space dimensions | | | | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m |
|------|-------------------------------------|-------------------------------------|-------------------------|------------|------------|-----------------------|-------|-------|-------|------------------------|-----|------|-----|------------------|----------------------|----------------------|---------|--|-------------|
| | | D1 Keyway to DIN 6885 | L1 max. min. | DA | LG | D3 N-EUPEX size | S | L4 | D2 | ND2 | DBS | BBS | D4 | W | | | | | |
| 222 | 3600 | 38 >38 ²⁾ | 80 42 ²⁾ | 263 | 366.5 | 110 | 5...6 | 224.5 | 42 | 70 | 250 | 12.5 | 115 | 109 | 2LC0900-0AE9 ■ -0AA0 | 22 | L..+M.. | | |
| 297 | 3600 | 38 >38 | 80 55 | 340 110 | 409.5 | 125 | 5...6 | 224.5 | 60 | 85 | 250 | 12.5 | 130 | 114 | 2LC0900-1AE9 ■ -0AA0 | 33 | L..+M.. | | |
| 342 | 3600 | 55 >55 ²⁾ | 110 60 ²⁾ | 400 120 | 442.5 | 140 | 5...6 | 224.5 | 60 | 90 | 250 | 12.5 | 145 | 115 | 2LC0900-2AE9 ■ -0AA0 | 45 | L..+M.. | | |
| 395 | 3000 | | 65 | 140 | 448 | 478 | 225 | 6...7 | 267.5 | 80 | 150 | 355 | 16 | 230 | 142 | 2LC0900-3AE9 ■ -0AA0 | 80 | L..+M.. | |
| 450 | 3000 | | 75 >75 | 140 80 | 512 170 | 546.5 | 250 | 8...9 | 306.5 | 90 | 160 | 355 | 16 | 260 | 182 | 2LC0900-4AE9 ■ -0AA0 | 101 | L..+M.. | |
| 516 | 2300 | | 55 >55 | 140 90 | 584 170 | 566.5 | 315 | 8...9 | 290.5 | 100 | 160 | 450 | 16 | 325 | 166 | 2LC0900-5AE9 ■ -0AA0 | 154 | L..+M.. | |
| 590 | 2000 | | 75 >75 | 140 95 | 662 170 | 601.5 | 315 | 8...9 | 290.5 | 100 | 160 | 450 | 16 | 325 | 166 | 2LC0900-6AE9 ■ -0AA0 | 179 | L..+M.. | |

$\emptyset D2$: Without finished bore – Without order codes

With finished bore – With order codes for diameter and tolerance (product code without -Z)

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L2 denotes the shaft insertion depth.

In the case of shaft ends deviating from DIN 748 the insertion depth must be specified in plain text with **Y29**.

For ordering example, see page 13/25.

¹⁾ Hub reduction possible; specify product code with “-Z” and order code “Y99” in plain text.

²⁾ Variant with shallow keyway to DIN 6885/3.

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Oil filling quantities for FA series

Selection and ordering data

This assignment is valid for a maximum starting torque $T_{max} = 2.0 \times T_{eff}$ 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 $T_{max} \neq 2.0 \times T_{eff}$, changed filling quantities must be observed!

| P_{eff} | Speed in rpm | | | | | | | | | | Size |
|-----------|--------------|------|------|------|------|------|------|------|------|------|------|
| kW | 600 | 740 | 890 | 980 | 1180 | 1470 | 1770 | 2300 | 2950 | 3550 | |
| 0.55 | 4.3 | 1.5 | 1.4 | 1.3 | 1.1 | | | | | | |
| 0.75 | 4.7 | 1.65 | 1.5 | 1.4 | 1.2 | | | | | | |
| 1.1 | 5.1 | 4.4 | 1.65 | 1.6 | 1.4 | 1.1 | | | | | |
| 2.2 | 6.2 | 5.2 | 4.5 | 4.2 | 1.6 | 1.4 | 1.2 | | | | |
| 3.0 | 9.5 | 5.6 | 4.9 | 4.6 | 1.65 | 1.5 | 1.3 | 1.0 | | | |
| 4.0 | 10.2 | 6.1 | 5.3 | 4.9 | 4.3 | 1.6 | 1.4 | 1.1 | | | |
| 5.5 | 11.0 | 9.4 | 5.7 | 5.3 | 4.6 | 1.65 | 1.5 | 1.2 | 1.0 | | |
| 7.5 | 12.0 | 10.2 | 6.2 | 5.8 | 5.0 | 4.3 | 1.6 | 1.3 | 1.1 | | |
| 11 | 13.4 | 11.2 | 9.7 | 6.4 | 5.5 | 4.7 | 4.1 | 1.5 | 1.2 | 1.0 | 222 |
| 15 | 24.8 | 12.2 | 10.5 | 9.8 | 6.0 | 5.0 | 4.4 | 1.6 | 1.3 | 1.1 | |
| 18 | 25.9 | 12.9 | 11.0 | 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 | 4.0 | 1.4 | 1.25 | |
| 30 | 29.7 | 25.2 | 12.7 | 11.7 | 10.1 | 6.0 | 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 | 4.0 | 3.5 | 342 |
| 55 | | 29.5 | 25.5 | 23.7 | 11.9 | 10.0 | 8.8 | 5.0 | 4.2 | 3.7 | |
| 75 | | | 27.6 | 25.7 | 22.3 | 10.8 | 9.4 | 5.4 | 4.5 | 3.9 | |
| 90 | | | 29.0 | 26.9 | 23.4 | 11.3 | 9.8 | 8.1 | 4.7 | 4.1 | |
| 110 | | | | 28.3 | 24.5 | 12.0 | 10.4 | 8.6 | 4.9 | 4.3 | |
| 132 | | | | 29.7 | 25.7 | 21.9 | 10.8 | 8.9 | 7.6 | 4.5 | |
| 160 | | | | | 27.0 | 22.9 | 20.0 | 9.3 | 7.8 | | 450 |
| 180 | | | | | | 27.8 | 23.5 | 20.6 | 10.0 | 8.0 | |
| 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 | | | 590 |
| 400 | | | | | | | | 26.4 | | | |

Ordering example type FAR from page 13/17:

Motor 45 kW, $P_{eff} = 37$ kW, $n_1 = 1470$ rpm, maximum output torque: $T_{max} = 2.0 \times T_{eff}$.

Selection:

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 under oil filling quantities for the FA series in this catalog section).

Product code:

- With pulley 5xSPB224:
2LC0900-3AF90-0AA0-Z
L1E+Y90
plain text to Y90: **7.6 l**
- With pulley 7xSPB236:
2LC0900-3AF91-0AA0-Z
L1E+Y90
plain text to Y90: **7.6 l**
- With 160 °C fuse:
2LC0900-3AF90-0AA0-Z
L1E+Y90+F08
plain text to Y90: **7.6 l**

Ordering example type FADB from page 13/21:

Motor 30 kW, $P_{eff} = 22$ kW, $n_1 = 1470$ rpm

Selection:

FLUDEX FADB coupling size 342, standard type,
Hollow shaft: Bore ØD1 = 55H7 mm with keyway to DIN 6885/1
and retaining screw,
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.

Product code:

- Part 13: Standard brake drum
2LC0900-2AC99-0AA0-Z
L1D+M1C+Y29
plain text to Y29: **90 mm**
- Part 13: Long brake drum
2LC0900-2AC99-0BA0-Z
L1D+M1C+Y29
plain text to Y29: **90 mm**

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Oil filling quantities for FA series

| P_{eff} | Speed in rpm | | | | | | | | Size | |
|------------------|---------------------------|------|------|------|------|------|------|------|------|------|
| kW | 600 | 740 | 890 | 980 | 1180 | 1470 | 1770 | 2300 | 2950 | 3550 |
| | Oil filling quantity in l | | | | | | | | | |
| 0.55 | 3.2 | 2.8 | | | | | | | | |
| 0.75 | 3.5 | 3.0 | 2.6 | | | | | | | |
| 1.1 | 3.9 | 3.3 | 2.9 | 2.7 | | | | | | |
| 2.2 | 7.3 | 4.0 | 3.4 | 3.2 | 2.8 | | | | | |
| 3.0 | 7.9 | 6.8 | 3.7 | 3.4 | 3.0 | 2.5 | | | | |
| 4.0 | 8.5 | 7.3 | 4.0 | 3.7 | 3.2 | 2.7 | | | | |
| 5.5 | 9.4 | 7.9 | 6.8 | 4.1 | 3.5 | 2.9 | 2.6 | | | |
| 7.5 | 17.0 | 8.5 | 7.4 | 6.9 | 3.8 | 3.2 | 2.8 | 2.4 | | |
| 11 | 18.7 | 16.0 | 8.1 | 7.6 | 6.6 | 3.5 | 3.0 | 2.5 | | |
| 15 | 20.3 | 17.3 | 8.9 | 8.2 | 7.1 | 3.8 | 3.3 | 2.7 | | |
| 18 | 21.4 | 18.0 | 15.7 | 8.6 | 7.4 | 4.0 | 3.4 | 2.8 | 2.4 | |
| 22 | | 19.0 | 16.5 | 15.4 | 7.8 | 6.6 | 3.6 | 3.0 | 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 | 16.0 | 7.9 | 6.9 | 3.6 | 2.9 | 2.6 |
| 55 | | | 21.0 | 19.3 | 16.8 | 8.4 | 7.3 | 6.0 | 3.1 | 2.7 |
| 75 | | | | 21.1 | 18.1 | 15.4 | 7.9 | 6.5 | 5.3 | 2.9 |
| 90 | | | | | 19.0 | 16.1 | 14.1 | 6.7 | 5.6 | 3.0 |
| 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 | | 516 |
| 225 | | | | | | | 17.6 | 14.6 | | |
| 250 | | | | | | | 18.1 | 14.9 | | |
| 280 | | | | | | | | 15.3 | | |
| 315 | | | | | | | | 15.8 | | |
| 350 | | | | | | | | 17.1 | | |

Ordering example type FADS HB from page 13/23:

Motor 160 kW, $P_{\text{eff}} = 132 \text{ kW}$, $n_1 = 2950 \text{ rpm}$

Selection:

FLUDEX FADS HB coupling size 395,

Hollow shaft: Bore $\varnothing D1 = 65H7$ mm with keyway to DIN 6885/1

and retaining screw,

Part 5: Bore $\varnothing D2 = 80H7$ mm with keyway to DIN 6885/1 and set screw,

Fitting position: horizontal/vertical, motor overhead (MO)/motor underneath (MU),

shaft insertion depth $L2 = 80 \text{ mm}$.

Delivery without oil filling, no oil filling quantity specification.

Product code:

- Horizontal version:

2LC0900-3AE99-0AA0-Z

L1F+M1J+Y29

plain text to Y29: **80 mm**

- Vertical version MO:

2LC0900-3AE99-0AA0-Z

L1F+M1J+F13+Y29

plain text to Y29: **80 mm**

- Vertical version MU:

2LC0900-3AE99-0AA0-Z

L1F+M1J+F14+Y29

plain text to Y29: **80 mm**

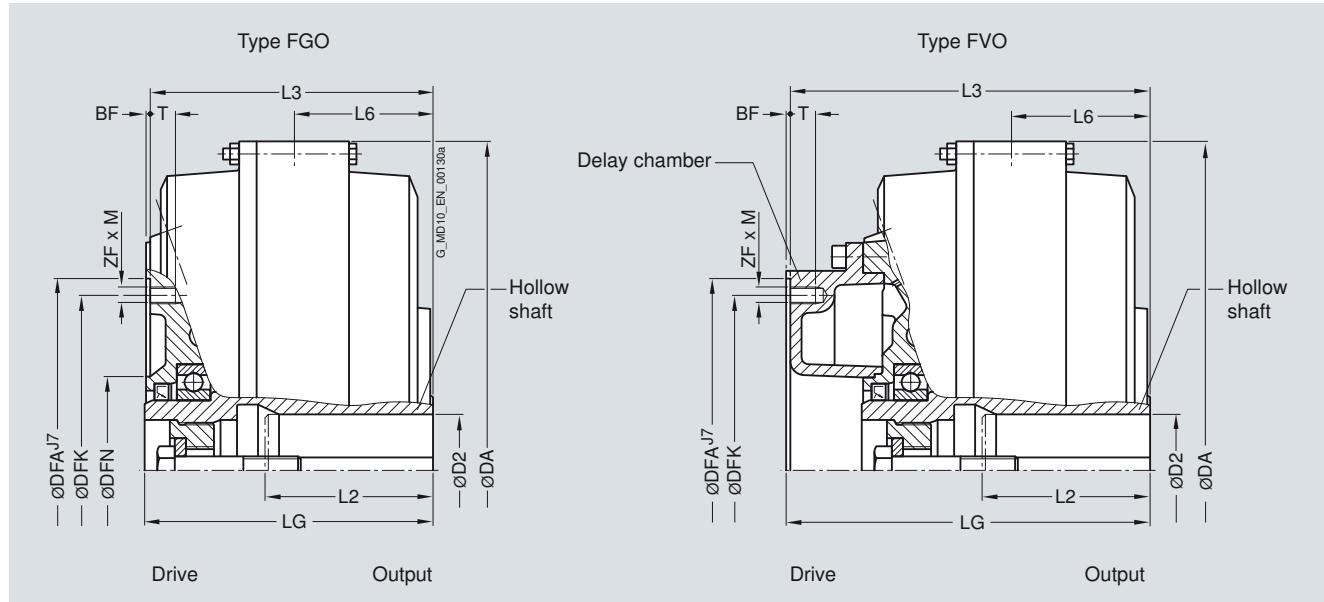
FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Types FGO/FVO

Selection and ordering data

Basic coupling of the FG series and delay chamber coupling of the FV series with connecting flange.



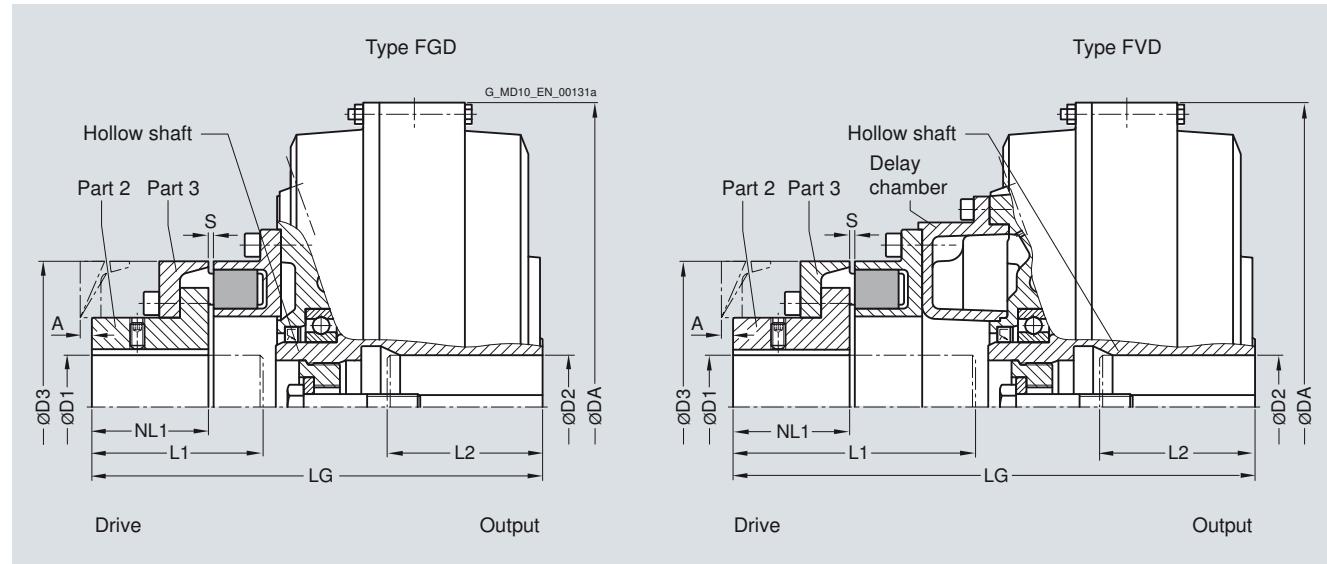
| Size | Type | Maximum speed | Dimensions in mm | | | | | | | | | | Tightening torque for screws in thread ZF x M | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m | | |
|------|------|---------------|------------------|-----|-----|-----|-----|-----|-----|-----|----|--------|---|---|----------|------------------------|------------------------|
| | | | D2 | L2 | DA | LG | L3 | L6 | DFN | DFA | BF | ZF x M | | | | | |
| 370 | FGO | 3600 | 75 | 140 | 420 | 185 | 182 | 84 | 125 | 220 | 3 | 200 | 8 x M10 | 15 | 31 | 2LC0900-8CE09-0AA0 M.. | |
| | FVO | | | | | 228 | 225 | | | | | | | | | 35 | 2LC0900-8ED09-0AA0 M.. |
| 425 | FGO | 3000 | 80 | 140 | 470 | 205 | 202 | 99 | 134 | 274 | 3 | 250 | 8 x M12 | 18 | 54 | 2LC0901-0CE09-0AA0 M.. | |
| | FVO | | | | | 260 | 257 | | | | | | | | | 46 | 2LC0901-0ED09-0AA0 M.. |
| 490 | FGO | 2600 | 55 | 110 | 555 | 236 | 232 | 105 | 138 | 314 | 4 | 282 | 8 x M16 | 24 | 135 | 2LC0901-1CE09-0AA0 M.. | |
| | FVO | >55 | 75 | 140 | | 301 | 297 | | | | | | | | | 77 | 2LC0901-1ED09-0AA0 M.. |
| 565 | FGO | 2300 | 110 | 170 | 630 | 254 | 250 | 123 | 170 | 344 | 4 | 312 | 8 x M16 | 24 | 135 | 2LC0901-2CE09-0AA0 M.. | |
| | FVO | | | | | 337 | 333 | | | | | | | | | 98 | 2LC0901-2ED09-0AA0 M.. |
| 655 | FGO | 2000 | 130 | 210 | 736 | 301 | 296 | 145 | 180 | 430 | 5 | 390 | 8 x M20 | 25 | 260 | 2LC0901-3CE09-0AA0 M.. | |
| | FVO | | | | | 389 | 384 | | | | | | | | | 144 | 2LC0901-3ED09-0AA0 M.. |
| 755 | FGO | 1800 | 150 | 240 | 840 | 346 | 341 | 176 | 226 | 480 | 5 | 440 | 10 x M20 | 25 | 260 | 2LC0901-4CE09-0AA0 M.. | |
| | FVO | | | | | 445 | 440 | | | | | | | | | 210 | 2LC0901-4ED09-0AA0 M.. |
| 887 | FGO | 1500 | 150 | 275 | 990 | 396 | 391 | 217 | 244 | 520 | 5 | 480 | 10 x M20 | 25 | 260 | 2LC0901-5CE09-0AA0 M.. | |
| | FVO | | | | | 498 | 493 | | | | | | | | | 380 | 2LC0901-5ED09-0AA0 M.. |
| | | | | | | | | | | | | | | | | 404 | |

For ordering example, see page 13/30.

Selection and ordering data

Type with attached N-EUPEX D coupling.

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



| Size | Type | Maximum speed n_{Kmax} rpm | Dimensions in mm | | | | | | | | | | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m |
|------------|------------|------------------------------------|--|-----|----------------------------------|-----|-------------|-----|-----------------------|-----|--------|----|--|-------------|
| | | | FLUDEX coupling D2 Keyway to DIN 6885 | | N-EUPEX D coupling D1 max. | | NL1 max. | | D3 N-EUPEX size | | S | | | |
| 370 | FGD | 3600 | 75 | 140 | 420 | 298 | 65 | 110 | 70 | 180 | 2...6 | 10 | 2LC0900-8CA ■ 9-0AA0 | 46 |
| | FVD | | | | | 341 | | 150 | | | | | 2LC0900-8EA ■ 9-0AA0 | 49 |
| 425 | FGD | 3000 | 80 | 140 | 470 | 348 | 85 | 140 | 90 | 225 | 2...6 | 9 | 2LC0901-0CA ■ 9-0AA0 | 66 |
| | FVD | | | | | 403 | | 195 | | | | | 2LC0901-0EA ■ 9-0AA0 | 70 |
| 490 | FGD | 2600 | 55 | 110 | 555 | 397 | 95 | 158 | 100 | 250 | 3...8 | 11 | 2LC0901-1CA ■ 9-0AA0 | 106 |
| | FVD | | >55 75 | 140 | | 462 | | 220 | | | | | 2LC0901-1EA ■ 9-0AA0 | 112 |
| 565 | FGD | 2300 | 110 | 170 | 630 | 430 | 105 | 170 | 110 | 280 | 3...8 | 5 | 2LC0901-2CA ■ 9-0AA0 | 134 |
| | FVD | | | | | 513 | | 255 | | | | | 2LC0901-2EA ■ 9-0AA0 | 142 |
| 655 | FGD | 2000 | 130 | 210 | 736 | 515 | 140 | 210 | 140 | 350 | 3...8 | 0 | 2LC0901-3CA ■ 9-0AA0 | 214 |
| | FVD | | | | | 603 | | 295 | | | | | 2LC0901-3EA ■ 9-0AA0 | 225 |
| 755 | FGD | 1800 | 150 | 240 | 840 | 584 | 150 | 230 | 160 | 400 | 3...8 | 0 | 2LC0901-4CA ■ 9-0AA0 | 302 |
| | FVD | | | | | 683 | | 330 | | | | | 2LC0901-4EA ■ 9-0AA0 | 316 |
| 887 | FGD | 1500 | 150 | 275 | 990 | 665 | 160 | 260 | 180 | 440 | 5...10 | 0 | 2LC0901-5CA ■ 9-0AA0 | 502 |
| | FVD | | | | | 767 | | 365 | | | | | 2LC0901-5EA ■ 9-0AA0 | 526 |

ØD1: Without finished bore from size 655 with small hub for:

- Size 655 ØD1max = 110 mm
- Size 755 ØD1max = 120 mm
- Size 887 ØD1max = 130 mm – Without order code L..

Without finished bore from size 655 with large hub for:

- Size 655 ØD1 = 88 ... 140
- Size 755 ØD1 = 98 ... 150
- Size 887 ØD1 = 118 ... 160 – Without order code L..

With finished bore – With order codes for diameter and tolerance (product code without -Z)

For ordering example, see page 13/31.

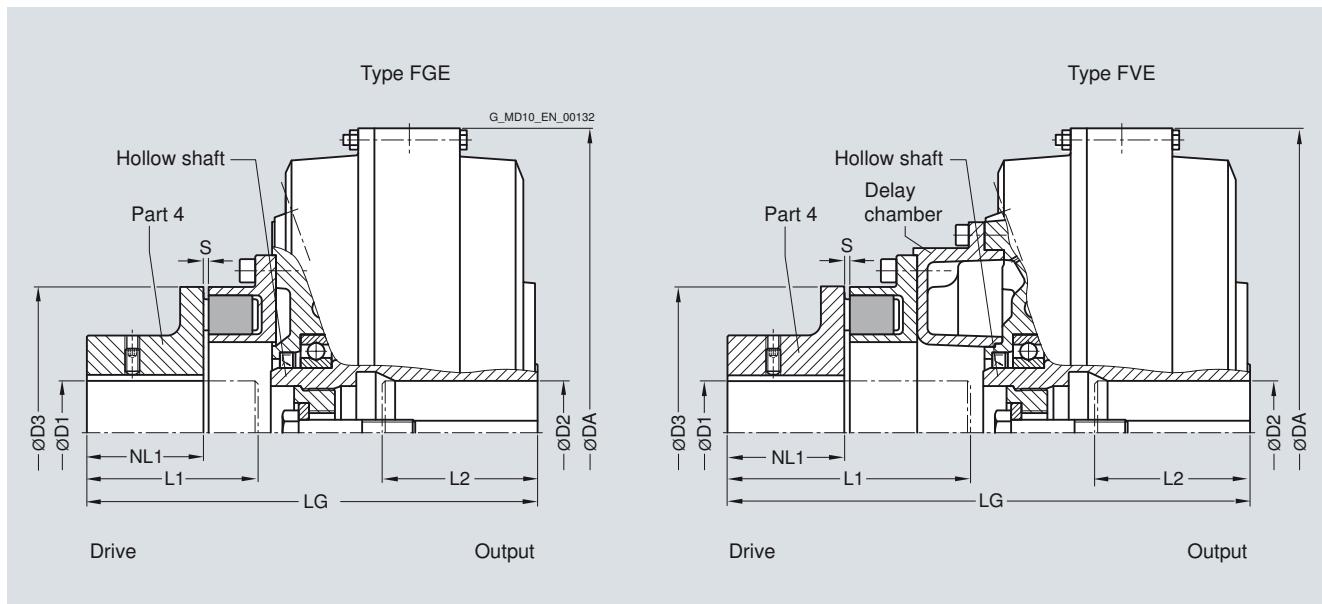
FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Types FGE/FVE

Selection and ordering data

Type with attached N-EUPEX E coupling. Enables larger bores on the drive side.



| Size | Type | Maximum speed n_{Kmax} | Dimensions in mm | | | | | | | | | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m |
|------|------|-----------------------------|--------------------|------|-----|--------------------|------|------|-----|-----|-------|--|---------------|
| | | | FLUDEX coupling | | | N-EUPEX E coupling | | | | | | | |
| | | | D2 | L2 | DA | LG | D1 | L1 | NL1 | D3 | S | N-EUPEX size | |
| | | | Keyway to DIN 6885 | max. | | | max. | max. | | | | | |
| | | | min. | max. | | | | | | | | | |
| | | rpm | | | | | | | | | | | kg |
| 370 | FGE | 3600 | 75 | 140 | 420 | 298 | 75 | 110 | 70 | 180 | 2...6 | 2LC0900-8CB ■ 9-0AA0 L..+M.. | 45 |
| | FVE | | | | | 341 | | 150 | | | | 2LC0900-8EB ■ 9-0AA0 L..+M.. | 49 |
| 425 | FGE | 3000 | 80 | 140 | 470 | 348 | 90 | 140 | 90 | 225 | 2...6 | 2LC0901-0CB ■ 9-0AA0 L..+M.. | 63 |
| | FVE | | | | | 403 | | 195 | | | | 2LC0901-0EB ■ 9-0AA0 L..+M.. | 67 |
| 490 | FGE | 2600 | 55 | 110 | 555 | 397 | 100 | 158 | 100 | 250 | 3...8 | 2LC0901-1CB ■ 9-0AA0 L..+M.. | 104 |
| | FVE | | >55 | 75 | 140 | 462 | | 220 | | | | 2LC0901-1EB ■ 9-0AA0 L..+M.. | 110 |
| 565 | FGE | 2300 | 110 | 170 | 630 | 430 | 110 | 170 | 110 | 280 | 3...8 | 2LC0901-2CB ■ 9-0AA0 L..+M.. | 138 |
| | FVE | | | | | 513 | | 255 | | | | 2LC0901-2EB ■ 9-0AA0 L..+M.. | 146 |

ØD1: Without finished bore – Without order codes

With finished bore – With order codes for diameter and tolerance (product code without -Z)

1

9

Ordering example:

Motor 45 kW, $P_{eff} = 37$ kW, $n_1 = 1470$ rpm

Selection:

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 Perbunan.

Delivery without oil filling, no oil filling quantity specification.

Product code:

- With 110 °C thermal switch:

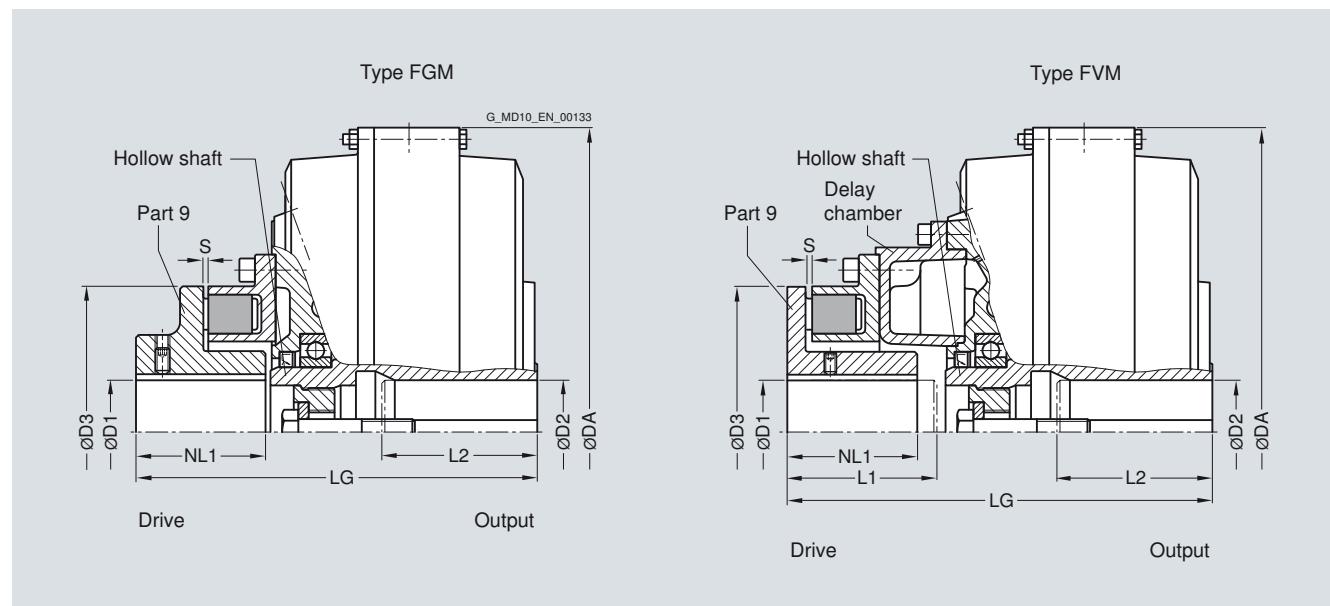
**2LC0900-8EB99-0AA0-Z
L1E+M1E+F03**

- With 125 °C EOC transmitter:

**2LC0900-8EB99-0AA0-Z
L1E+M1E+F04**

Selection and ordering data

Type with attached N-EUPEX M coupling. Enables a short fitting length.



| Size | Type | Maximum speed n_{Kmax} | Dimensions in mm | | | | | | | | | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m | | | |
|-----------------------|------|-----------------------------|------------------|-----|-----|-----|-----|-----|--------------------|-----|-------|--|-------------|--|--|--|
| | | | FLUDEX coupling | | | | | | | | | | | | | |
| | | | D2 | L2 | DA | LG | D1 | L1 | NL1 | D3 | S | | | | | |
| Keyway to DIN 6885 | | | | | | | | | N-EUPEX M coupling | | | | | | | |
| 370 | FGM | 3600 | 75 | 140 | 420 | 274 | 70 | 80 | 80 | 180 | 2...6 | 2LC0900-8CD ■ 9-0AA0 L..+M.. | 48 | | | |
| | FVM | | | | | 288 | | 100 | 85 | | | 2LC0900-8EC ■ 9-0AA0 L..+M.. | 51 | | | |
| 425 | FGM | 3000 | 80 | 140 | 470 | 310 | 85 | 100 | 100 | 225 | 2...6 | 2LC0901-0CD ■ 9-0AA0 L..+M.. | 67 | | | |
| | FVM | | | | | 327 | | 120 | 100 | | | 2LC0901-0EC ■ 9-0AA0 L..+M.. | 71 | | | |
| 490 | FGM | 2600 | 55 | 110 | 555 | 350 | 90 | 105 | 105 | 250 | 3...8 | 2LC0901-1CD ■ 9-0AA0 L..+M.. | 105 | | | |
| | FVM | >55 | 75 | 140 | | 382 | | 140 | 110 | | | 2LC0901-1EC ■ 9-0AA0 L..+M.. | 112 | | | |
| 565 | FGM | 2300 | 110 | 170 | 630 | 380 | 100 | 120 | 120 | 280 | 3...8 | 2LC0901-2CD ■ 9-0AA0 L..+M.. | 134 | | | |
| | FVM | | | | | 425 | | 165 | 130 | | | 2LC0901-2EC ■ 9-0AA0 L..+M.. | 142 | | | |

ØD1: Without finished bore – Without order codes

With finished bore – With order codes for diameter and tolerance (product code without -Z)

1

9

Ordering example:

Motor 45 kW, $P_{eff} = 37$ kW, $n_1 = 1470$ rpm

Selection:

FLUDEX FGM coupling size 370,

Hollow shaft: Bore ØD2 = 60H7 mm with keyway (for number of keyways, see "Special types") 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.

Product code:

- With one keyway:

2LC0900-8CD99-0AA0
L1E+M1E

- With two keyways set 180° apart:

2LC0900-8CD99-0AA0-Z
L1E+M1E+L46

- With two keyways set 120° apart:

2LC0900-8CD99-0AA0-Z
L1E+M1E+L47

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Oil filling quantities for FG/FV series

Selection and ordering data

This assignment is valid for a maximum starting torque $T_{max} = 2.0 \times T_{eff}$ (FG series) or $T_{max} = 1.5 \times T_{eff}$ (FV series), 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 $T_{max} \neq 2.0 \times T_{eff}$ or $T_{max} \neq 1.5 \times T_{eff}$, changed filling quantities must be observed!

| P_{eff} | Speed in rpm | | | | | | | | | | | | | | | | Size | | | | | |
|-----------|---------------------------|-------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|-----|-----|-----|-----|--|
| | 600 | | 740 | | 890 | | 980 | | 1180 | | 1470 | | 1770 | | 2300 | | 2950 | | | | | |
| Series | FG | FV | FG | FV | FG | FV | FG | FV | FG | FV | FG | FV | FG | FV | FG | FV | FG | FV | | | | |
| kW | Oil filling quantity in l | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | | 5.3 | | | | | | | | | | | | | | | | | | | | |
| 2.2 | 6.4 | 6.7 | | 5.5 | | | | | | | | | | | | | | | | | | |
| 3.0 | 7.0 | 7.4 | 5.9 | 6.1 | | 5.0 | | | | | | | | | | | | | | | | |
| 4.0 | 7.2 | 8.0 | 6.4 | 6.6 | | 5.6 | | | 5.0 | | | | | | | | | | | | | |
| 5.5 | 13.0 | 13.8 | 6.9 | 7.4 | 6.0 | 6.2 | | | 5.6 | | | | | | | | | | | | | |
| 7.5 | 14.4 | 15.2 | 7.2 | 8.0 | 6.5 | 6.8 | 6.0 | 6.2 | | 5.1 | | | | | | | | | | | | |
| 11 | 15.9 | 17.4 | 13.3 | 14.1 | 7.2 | 7.7 | 6.7 | 7.1 | 5.7 | 5.9 | | | | | | | | | | | | |
| 15 | 17.0 | 18.5 | 14.7 | 15.6 | 12.4 | 13.0 | 7.2 | 7.7 | 6.2 | 6.5 | | 5.2 | | | | | | | | | | |
| 18 | 17.0 | 31.6 | 15.4 | 16.6 | 13.1 | 13.8 | 12.0 | 12.5 | 6.5 | 6.9 | | 5.5 | | | | | | | | | | |
| 22 | 31.1 | 33.2 | 16.2 | 17.7 | 14.0 | 14.8 | 12.7 | 13.4 | 6.9 | 7.3 | 5.7 | 5.9 | | 4.8 | | | | | | | | |
| 30 | 35.9 | 36.5 | 17.0 | 18.5 | 15.2 | 16.3 | 14.1 | 14.9 | 11.8 | 12.3 | 6.3 | 6.5 | 5.3 | 5.5 | | | | | | | | |
| 37 | 37.9 | 39.9 | 29.9 | 32.4 | 16.1 | 17.5 | 14.9 | 15.9 | 12.6 | 13.3 | 6.6 | 7.0 | 5.7 | 5.9 | | 4.2 | | | | | | |
| 45 | 39.7 | 44.0 | 32.3 | 34.0 | 17.0 | 18.5 | 15.7 | 17.0 | 13.4 | 14.1 | 7.0 | 7.5 | 6.0 | 6.2 | | 4.6 | | | | | | |
| 55 | 40.0 | 44.0 | 35.5 | 36.2 | 28.4 | 31.0 | 16.6 | 18.1 | 14.3 | 15.1 | 11.6 | 12.0 | 6.4 | 6.7 | 5.0 | 5.1 | | | | | | |
| 75 | 70.5 | 75.8 | 38.7 | 41.4 | 31.7 | 33.6 | 28.5 | 31.2 | 15.5 | 16.7 | 12.7 | 13.5 | 6.9 | 7.4 | 5.5 | 5.7 | 4.3 | 4.2 | | | | |
| 90 | 74.7 | 80.0 | 40.0 | 44.0 | 34.4 | 35.4 | 30.4 | 32.7 | 16.3 | 17.7 | 13.5 | 14.3 | 11.4 | 11.6 | 5.9 | 6.1 | 4.6 | 4.5 | | | | |
| 110 | 81.0 | 84.3 | 40.0 | 44.0 | 37.0 | 38.2 | 33.0 | 34.5 | 27.3 | 29.9 | 14.4 | 15.2 | 12.1 | 12.6 | 6.2 | 6.4 | 4.9 | 5.0 | 4.0 | 4.1 | 370 | |
| 132 | 88.2 | 89.2 | 69.3 | 74.6 | 38.8 | 41.6 | 36.0 | 36.7 | 28.6 | 31.3 | 15.1 | 16.2 | 12.8 | 13.5 | 6.5 | 6.9 | 5.2 | 5.4 | 4.4 | 4.2 | | |
| 160 | 93.5 | 96.3 | 73.3 | 78.7 | 40.0 | 44.0 | 37.8 | 39.8 | 30.6 | 32.9 | 15.9 | 17.3 | 13.6 | 14.4 | 10.6 | 10.4 | 5.5 | 5.7 | 4.7 | 4.6 | | |
| 180 | 96.4 | 101.8 | 76.5 | 81.3 | 65.4 | 44.0 | 38.9 | 42.1 | 32.1 | 33.9 | 26.2 | 17.9 | 14.1 | 14.9 | 11.0 | 11.0 | 5.8 | 6.0 | 4.9 | 4.9 | | |
| 200 | 98.0 | 107.0 | 79.8 | 83.6 | 67.0 | 72.1 | 39.9 | 44.0 | 33.7 | 34.9 | 26.9 | 29.4 | 14.6 | 15.4 | 11.4 | 11.7 | 6.0 | 6.2 | 5.0 | 5.1 | | |
| 250 | 98.0 | 107.0 | 88.7 | 89.5 | 70.9 | 76.3 | 40.0 | 44.0 | 36.8 | 37.9 | 28.4 | 31.1 | 15.4 | 16.7 | 12.2 | 12.8 | | 5.4 | 5.5 | | | |
| 315 | | | 84.7 | 98.5 | 76.6 | 81.5 | 69.8 | 75.6 | 39.0 | 42.1 | 30.8 | 33.0 | 26.2 | 28.6 | 13.1 | 13.9 | | 490 | | | | |
| 350 | | | | 97.2 | 103.6 | 80.0 | 83.7 | 71.8 | 77.7 | 39.9 | 44.0 | 32.2 | 33.9 | 26.9 | 29.5 | 13.6 | 14.4 | | | | | |
| 400 | | | | | 98.0 | 107.0 | 85.1 | 86.9 | 75.2 | 80.5 | 64.5 | 68.4 | 34.2 | 35.3 | 27.8 | 30.4 | | 655 | | | | |
| 500 | | | | | | 98.0 | 107.0 | 92.4 | 94.5 | 82.5 | 85.3 | 68.1 | 73.8 | 37.1 | 38.4 | 29.7 | 32.3 | | | | | |
| 600 | | | | | | | 96.9 | 102.9 | 90.1 | 90.6 | 71.5 | 77.3 | 38.8 | 41.8 | 31.9 | 33.8 | | | | | | |
| 750 | | | | | | | | 98.0 | 107.0 | 95.3 | 99.6 | 77.3 | 81.9 | 64.0 | 67.8 | 35.4 | 36.2 | | 887 | | | |
| 900 | | | | | | | | | 98.0 | 107.0 | 83.7 | 86.0 | 67.0 | 72.7 | | | | | | | | |
| 1100 | | | | | | | | | | 81.1 | 92.3 | 70.4 | 76.2 | | | | | | | | | |
| 1300 | | | | | | | | | | | 95.2 | 99.3 | 74.2 | 79.8 | | | | | | | | |
| 1600 | | | | | | | | | | | | 80.6 | 84.0 | | | | | | | | | |

Ordering example type FGO/FVO from page 13/26:

Motor 132 kW, $P_{eff} = 110$ kW, $n_1 = 1470$ rpm

Selection:

FLUDEX FGO/FGV coupling size 490,

Hollow shaft: Bore $\varnothing D2 = 70H7$ mm with keyway to DIN 6885/1 and retaining screw.

Delivery with oil filling: FGO = 14.4 l / FVO = 15.2 l (see under oil filling quantities for FG/FV series in this catalog section).

Product code:

- In type FGO:

2LC0901-1CE09-0AA0-Z

L1G+F16+Y90

plain text to Y90: **14.4 l**

- In type FGV:

2LC0901-1ED09-0AA0-Z

L1G+F16+Y90

plain text to Y90: **15.2 l**

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Oil filling quantities for FG/FV series

| P_{eff} | Speed in rpm | | | | | | | | | | | | | | | | | | | | Size | | | | |
|------------------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|-----|------|----|--|--|--|
| | 600 | | 740 | | 890 | | 980 | | 1180 | | 1470 | | 1770 | | 2300 | | 2950 | | 3550 | | | | | | |
| kW | Series | | | | | | | | | | | | | | | | | | | | | | | | |
| | FG | FV | FG | FV | FG | FV | FG | FV | FG | FV | FG | FV | FG | FV | FG | FV | FG | FV | FG | FV | FG | FV | | | |
| 3.0 | 8.7 | 9.1 | | | | | | | | | | | | | | | | | | | | | | | |
| 4.0 | 9.5 | 9.9 | | | 8.1 | | | | | | | | | | | | | | | | | | | | |
| 5.5 | 10.3 | 11.1 | 8.7 | 9.0 | | | | | | | | | | | | | | | | | | | | | |
| 7.5 | 10.9 | 12.0 | 9.5 | 9.9 | | | 8.3 | | | 7.4 | | | | | | | | | | | | | | | |
| 11 | 19.9 | 21.4 | 10.5 | 11.3 | 9.1 | 9.4 | | | 8.6 | | | | | | | | | | | | | | | | |
| 15 | 22.0 | 23.7 | 10.9 | 12.0 | 9.8 | 10.4 | 9.1 | 9.5 | | | 7.8 | | | | | | | | | | | | | | |
| 18 | 23.2 | 25.2 | 19.1 | 20.5 | 10.3 | 11.1 | 9.6 | 10.1 | | | 8.4 | | | | | | | | | | | | | | |
| 22 | 24.3 | 27.0 | 20.3 | 21.9 | 10.9 | 11.7 | 10.1 | 10.8 | 8.6 | 9.0 | | | | | | | | | | | | | | | |
| 30 | 42.0 | 45.0 | 22.4 | 24.2 | 18.9 | 20.1 | 10.9 | 11.8 | 9.5 | 9.9 | | 7.9 | | | | | | | | | | | | | |
| 37 | 44.4 | 47.5 | 23.7 | 26.0 | 20.1 | 21.7 | 18.5 | 19.5 | 10.0 | 10.7 | 8.2 | 8.6 | | | 6.7 | | | | | | | | | | |
| 45 | 47.7 | 50.0 | 24.9 | 27.7 | 21.5 | 23.1 | 19.5 | 21.0 | 10.5 | 11.3 | 8.8 | 9.2 | | | 7.5 | | | | | | | | | | |
| 55 | 52.0 | 53.0 | 25.5 | 28.0 | 22.8 | 24.6 | 20.8 | 22.5 | 17.5 | 18.3 | 9.3 | 9.7 | 7.8 | 8.1 | | | | | | | | | | | |
| 75 | 58.0 | 59.5 | 45.6 | 48.5 | 24.6 | 27.4 | 22.9 | 24.8 | 19.3 | 20.7 | 10.1 | 10.8 | 8.6 | 9.0 | | 6.5 | | | | | | | | | |
| 90 | 60.5 | 65.5 | 49.1 | 50.5 | 25.5 | 28.9 | 23.9 | 26.5 | 20.4 | 22.0 | 10.7 | 11.4 | 9.2 | 9.5 | 7.2 | 7.1 | | | | | | | | | |
| 110 | 61.0 | 67.0 | 54.0 | 54.0 | 43.2 | 46.4 | 25.5 | 28.0 | 21.8 | 23.4 | 17.7 | 18.7 | 9.7 | 10.2 | 7.6 | 7.8 | | | | | | | | | |
| 132 | | | 57.0 | 58.0 | 45.8 | 48.7 | 42.1 | 45.1 | 23.0 | 24.9 | 18.7 | 19.9 | 10.1 | 10.9 | 8.1 | 8.4 | 6.3 | 6.1 | | | 425 | | | | |
| 160 | | | 60.0 | 63.5 | 49.5 | 51.0 | 44.3 | 47.4 | 24.0 | 26.7 | 19.8 | 21.4 | 16.7 | 16.8 | 8.6 | 8.9 | 6.8 | 6.6 | | | | | | | |
| 180 | | | 61.5 | 67.0 | 52.3 | 53.0 | 46.2 | 49.0 | 24.8 | 27.6 | 20.6 | 22.2 | 17.3 | 18.0 | 8.8 | 9.3 | 7.0 | 6.9 | | | | | | | |
| 200 | | | 62.5 | 67.0 | 55.0 | 55.0 | 48.1 | 50.0 | 25.5 | 43.7 | 21.4 | 23.0 | 17.9 | 18.9 | 9.2 | 9.6 | 7.3 | 7.3 | | | | | | | |
| 250 | | | | | 58.5 | 60.5 | 53.5 | 53.5 | 42.9 | 46.0 | 22.8 | 24.7 | 19.2 | 20.6 | 14.6 | 14.7 | 7.8 | 8.0 | | | | | | | |
| 315 | | | | | | 61.0 | 67.0 | 57.5 | 58.5 | 46.2 | 49.0 | 24.2 | 26.8 | 20.6 | 22.3 | 16.1 | 16.1 | 8.3 | 8.7 | | | | | | |
| 350 | | | | | | 62.5 | 67.0 | 59.0 | 61.5 | 48.2 | 50.0 | 39.7 | 42.4 | 21.4 | 23.0 | 16.7 | 16.8 | | | 565 | | | | | |
| 400 | | | | | | | 61.0 | 66.0 | 51.0 | 52.0 | 41.0 | 44.0 | 22.2 | 24.0 | 17.4 | 18.1 | | | | | | | | | |
| 500 | | | | | | | 61.0 | 67.0 | 56.0 | 56.5 | 43.3 | 46.5 | 37.8 | 40.0 | 18.7 | 19.9 | | | | | | | | | |
| 600 | | | | | | | | 59.0 | 61.0 | 46.0 | 49.0 | 39.5 | 42.1 | | 21.2 | | | | | | | | | | |
| 750 | | | | | | | | | 50.5 | 51.5 | 41.7 | 45.0 | | | | | | | | | 755 | | | | |
| 900 | | | | | | | | | | 55.5 | 55.0 | 43.7 | 47.0 | | | | | | | | | | | | |
| 1100 | | | | | | | | | | | 46.8 | 49.5 | | | | | | | | | | | | | |

Ordering example type FGD from page 13/27:

Motor 350 kW, $P_{\text{eff}} = 315$ kW, $n_1 = 1470$ rpm

Selection:

FLUDEX FGD coupling size 655, standard type,
Hollow shaft: Bore $\varnothing D2 = 120H7$ mm with keyway to DIN 6885/1
and retaining screw,
Part 2: Bore $\varnothing D1$ = see ordering data table "Without finished
bore" and "With finished bore",
keyway to DIN 6885/1 and set screw.
Delivery without oil filling, no oil filling quantity specification.

Product code:

- Without finished bore for $\varnothing D1 = 110$ mm:
2LC0901-3CA19-0AA0
L1S
- Without finished bore for $\varnothing D1 = 130$ mm:
2LC0901-3CA29-0AA0
L1S
- With finished bore for $\varnothing D1 = 140H7$ mm:
2LC0901-3CA99-0AA0
L1S+M1V

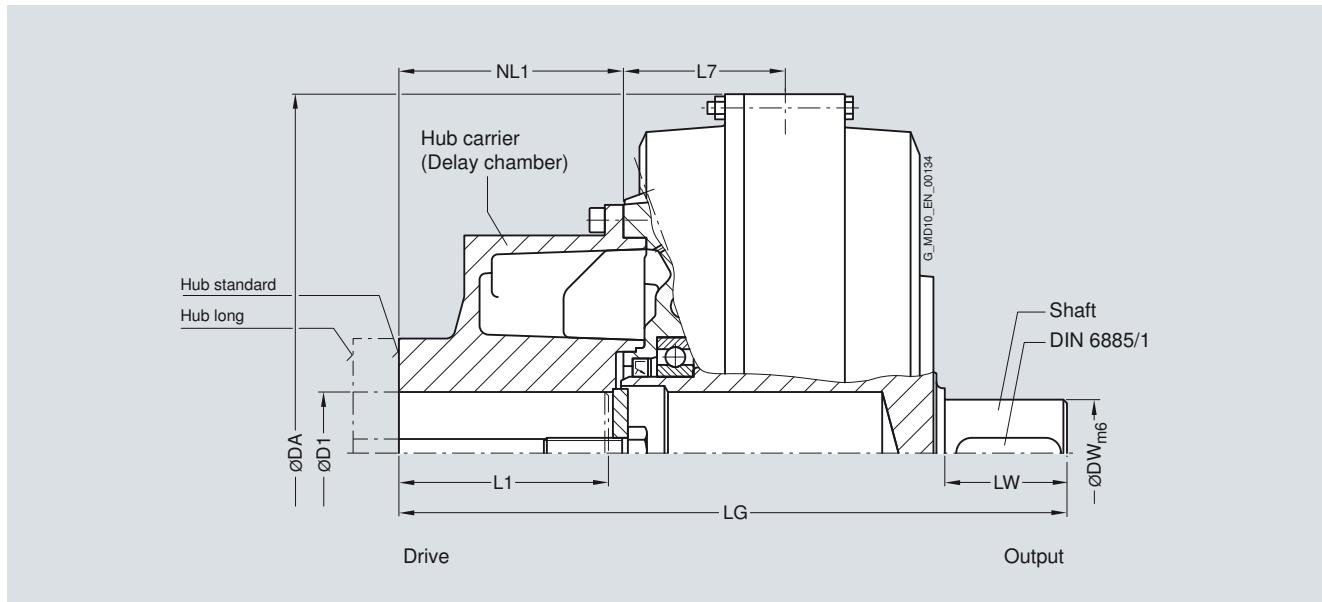
FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Type FNO

Selection and ordering data

Type with large delay chamber and connecting shaft.



| Size | Maximum speed n_{Kmax} rpm | Hub carrier | Dimensions in mm | | | | | | | | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m | |
|------------|------------------------------------|-----------------|-------------------------------------|------------|-----|-----|-----|-----|-----|-----|--|-----------------------------|-----|
| | | | D1 Keyway to DIN 6885 min. | L1 max. | NL1 | DA | LG | L7 | DW | LW | | | |
| 370 | 3600 | Hub Standard | 38 | 55 | 110 | 115 | 420 | 380 | 101 | 60 | 70 | 2LC0900-8GA ■ 0-1AA0 | 56 |
| | | Long | 38 | 80 | 140 | 145 | 420 | 410 | | | | 2LC0900-8GA ■ 0-2AA0 | 54 |
| 425 | 3000 | Hub Standard | 42 | 75 | 140 | 147 | 470 | 437 | 106 | 70 | 80 | 2LC0901-0GA ■ 0-1AA0 | 77 |
| | | Long | 42 | 100 | 170 | 177 | 470 | 467 | | | | 2LC0901-0GA ■ 0-2AA0 | 74 |
| 490 | 2600 | Hub Standard | 48 | 75 | 140 | 148 | 555 | 485 | 131 | 70 | 90 | 2LC0901-1GA ■ 0-1AA0 | 120 |
| | | Long | 48 | 110 | 170 | 178 | 555 | 515 | | | | 2LC0901-1GA ■ 0-2AA0 | 115 |
| 565 | 2300 | Hub Standard | 65 | 95 | 170 | 178 | 630 | 543 | 131 | 90 | 100 | 2LC0901-2GA ■ 0-1AA0 | 161 |
| | | Long | 65 | 120 | 210 | 218 | 630 | 583 | | | | 2LC0901-2GA ■ 0-2AA0 | 159 |
| 655 | 2000 | Hub Standard | 65 | 110 | 210 | 218 | 736 | 644 | 156 | 100 | 125 | 2LC0901-3GA ■ 0-1AA0 | 233 |
| | | Long | 65 | 135 | 250 | 258 | 736 | 684 | | | | 2LC0901-3GA ■ 0-2AA0 | 232 |
| 755 | 1800 | Hub Standard | 65 | 120 | 210 | 219 | 840 | 705 | 170 | 110 | 140 | 2LC0901-4GA ■ 0-1AA0 | 309 |
| | | Long | 65 | 150 | 250 | 259 | 840 | 745 | | | | 2LC0901-4GA ■ 0-2AA0 | 307 |
| 887 | 1500 | Hub Standard | 65 | 150 | 250 | 251 | 990 | 835 | 187 | 120 | 178 | 2LC0901-5GA ■ 0-1AA0 | 541 |
| | | Long | 65 | 170 | 300 | 301 | 990 | 885 | | | | 2LC0901-5GA ■ 0-2AA0 | 544 |

ØD1: Without finished bore – Without order codes

With finished bore – With order codes for diameter and tolerance (product code without -Z)

1

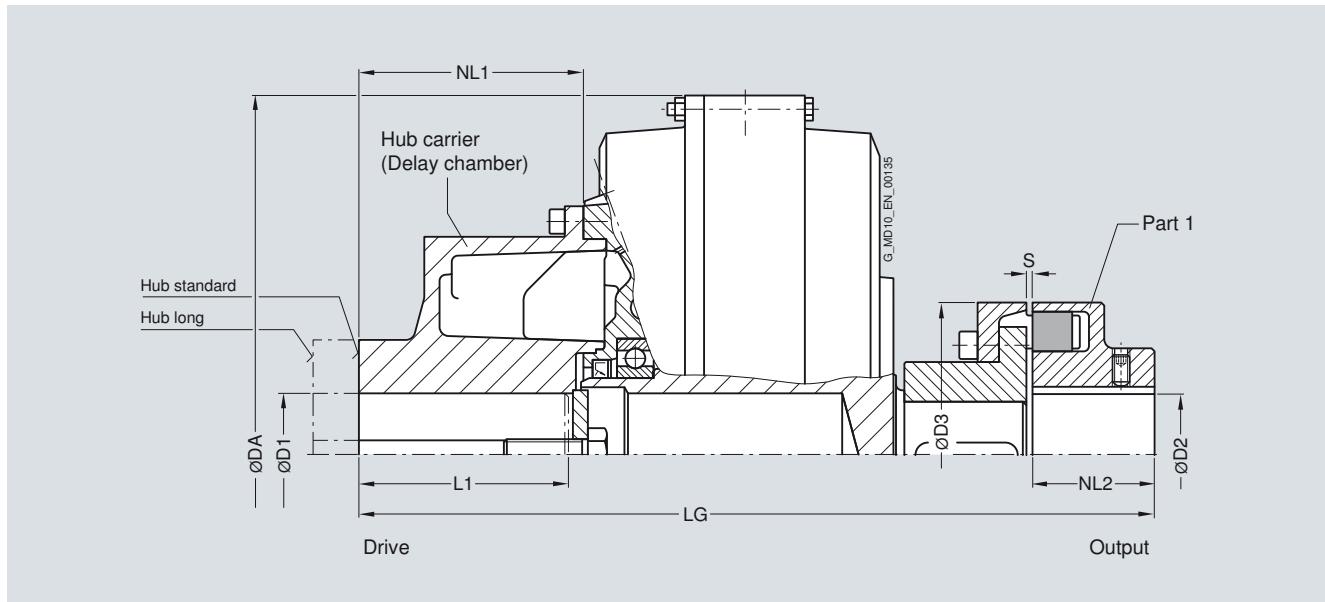
9

For centroidal distance Y and weight F_y , see page 13/47.

For ordering example, see page 13/39.

Selection and ordering data

Type with large delay chamber and attached N-EUPEX A coupling. Enables a short fitting length.



| Size | Maximum speed n_{Kmax} rpm | Hub carrier | Dimensions in mm | | | | | | | | | | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m |
|------------|------------------------------------|-------------|-------------------------------------|------------|-----|-----|-----|----------------------------------|-----|-----|-----------------|--------|---|-------------|
| | | | D1 Keyway to DIN 6885 min. | L1 max. | NL1 | DA | LG | N-EUPEX A coupling D2 max. | NL2 | D3 | N-EUPEX size | S | | |
| 370 | 3600 | Standard | 38 | 55 | 110 | 115 | 420 | 454 | 75 | 70 | 180 | 3...6 | 2LC0900-8GB ■ ■ -1AA0 | 69 |
| | | Long | 38 | 80 | 140 | 145 | 420 | 484 | | | | | 2LC0900-8GB ■ ■ -2AA0 | 67 |
| 425 | 3000 | Standard | 42 | 75 | 140 | 147 | 470 | 521 | 85 | 80 | 200 | 3...6 | 2LC0901-0GB ■ ■ -1AA0 | 99 |
| | | Long | 42 | 100 | 170 | 177 | 470 | 551 | | | | | 2LC0901-0GB ■ ■ -2AA0 | 96 |
| 490 | 2600 | Standard | 48 | 75 | 140 | 148 | 555 | 579 | 90 | 90 | 225 | 3...6 | 2LC0901-1GB ■ ■ -1AA0 | 149 |
| | | Long | 48 | 110 | 170 | 178 | 555 | 609 | | | | | 2LC0901-1GB ■ ■ -2AA0 | 144 |
| 565 | 2300 | Standard | 65 | 95 | 170 | 178 | 630 | 648 | 100 | 100 | 250 | 3...8 | 2LC0901-2GB ■ ■ -1AA0 | 200 |
| | | Long | 65 | 120 | 210 | 218 | 630 | 688 | | | | | 2LC0901-2GB ■ ■ -2AA0 | 199 |
| 655 | 2000 | Standard | 65 | 110 | 210 | 218 | 736 | 774 | 120 | 125 | 315 | 3...8 | 2LC0901-3GB ■ ■ -1AA0 | 308 |
| | | Long | 65 | 135 | 250 | 258 | 736 | 814 | | | | | 2LC0901-3GB ■ ■ -2AA0 | 307 |
| 755 | 1800 | Standard | 65 | 120 | 210 | 219 | 840 | 850 | 140 | 140 | 350 | 3...8 | 2LC0901-4GB ■ ■ -1AA0 | 426 |
| | | Long | 65 | 150 | 250 | 259 | 840 | 890 | | | | | 2LC0901-4GB ■ ■ -2AA0 | 424 |
| 887 | 1500 | Standard | 65 | 150 | 250 | 251 | 990 | 1023 | 160 | 180 | 440 | 5...10 | 2LC0901-5GB ■ ■ -1AA0 | 693 |
| | | Long | 65 | 170 | 300 | 301 | 990 | 1073 | | | | | 2LC0901-5GB ■ ■ -2AA0 | 697 |

$\varnothing D1$: Without finished bore – Without order codes

With finished bore – With order codes for diameter and tolerance (product code without -Z)

$\varnothing D2$: Without finished bore from size 655 with small hub for:

Size 655 $\varnothing D2max = 100$ mm, size 755 $\varnothing D2max = 110$ mm, size 887 $\varnothing D2max = 130$ mm – Without order codes

Without finished bore from size 655 with large hub for:

Size 655 $\varnothing D2 = 88 \dots 120$, size 755 $\varnothing D2 = 88 \dots 140$, size 887 $\varnothing D2 = 118 \dots 160$ – Without order codes

With finished bore – With order codes for diameter and tolerance (product code without -Z)

For centroidal distance Y and weight F_y , see page 13/47.

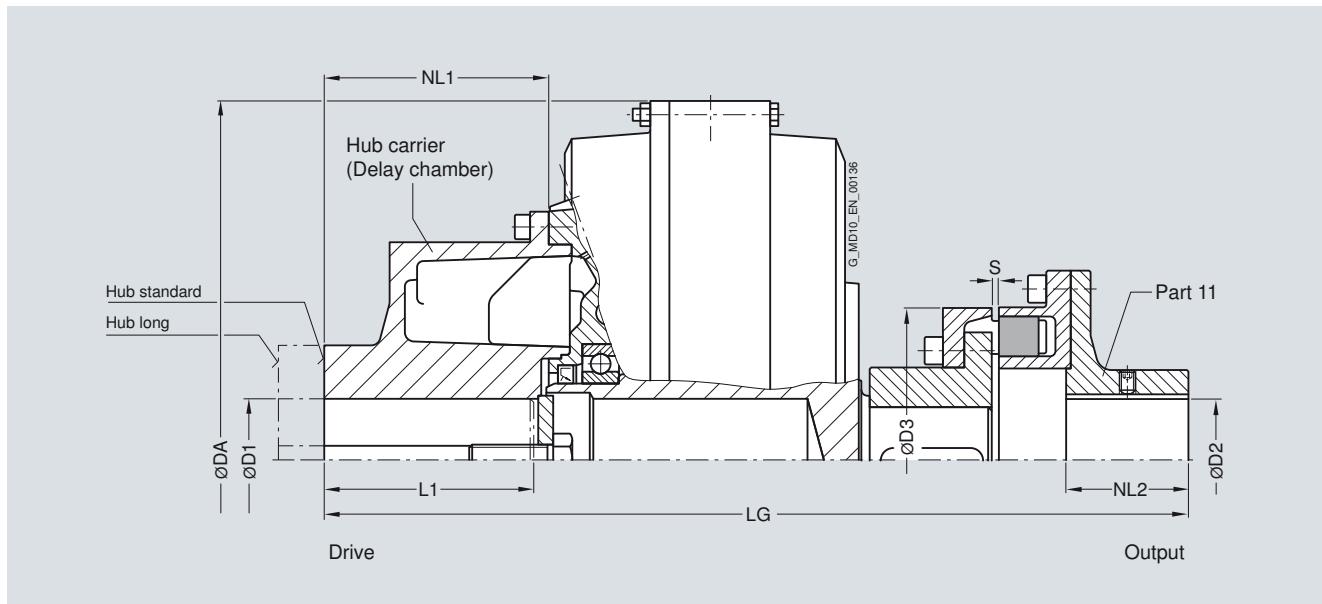
FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Type FND

Selection and ordering data

Type with large delay chamber and attached N-EUPEX D coupling.
Enables fitting and dismounting of the coupling without displacement of the coupled shafts.



| Size | Maximum speed n_{kmax} | Hub carrier | Dimensions in mm | | | | | | | | | | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight <i>m</i> | |
|------|-----------------------------|-----------------|------------------|-----|--------------------|-----|--------------|------|------|-----|-----|-------------------------|--|--------------------|-----|
| | | | FLUDEX coupling | | N-EUPEX D coupling | | N-EUPEX size | | | | | | | | |
| | | | D1 | L1 | NL1 | DA | LG | D2 | NL2 | D3 | S | Available at short term | | | |
| 370 | 3600 | Hub Standard | 38 | 55 | 110 | 115 | 420 | 494 | 70 | 70 | 180 | 4...6 | 2LC0900-8GC | -1AA0 | 74 |
| | | | Long | 38 | 80 | 140 | 145 | 420 | 524 | | | | 2LC0900-8GC | -2AA0 | 72 |
| 425 | 3000 | Standard | 42 | 75 | 140 | 147 | 470 | 566 | 80 | 80 | 200 | 4...6 | 2LC0901-0GC | -1AA0 | 101 |
| | | | Long | 42 | 100 | 170 | 177 | 470 | 596 | | | | 2LC0901-0GC | -2AA0 | 99 |
| 490 | 2600 | Standard | 48 | 75 | 140 | 148 | 555 | 629 | 90 | 90 | 225 | 4...6 | 2LC0901-1GC | -1AA0 | 153 |
| | | | Long | 48 | 110 | 170 | 178 | 555 | 659 | | | | 2LC0901-1GC | -2AA0 | 149 |
| 565 | 2300 | Standard | 65 | 95 | 170 | 178 | 630 | 706 | 100 | 100 | 250 | 5...8 | 2LC0901-2GC | -1AA0 | 207 |
| | | | Long | 65 | 120 | 210 | 218 | 630 | 746 | | | | 2LC0901-2GC | -2AA0 | 206 |
| 655 | 2000 | Standard | 65 | 110 | 210 | 218 | 736 | 842 | 110 | 125 | 315 | 5...8 | 2LC0901-3GC | -1AA0 | 315 |
| | | | Long | 65 | 135 | 250 | 258 | 736 | 882 | | | | 2LC0901-3GC | -2AA0 | 314 |
| 755 | 1800 | Standard | 65 | 120 | 210 | 219 | 840 | 921 | 120 | 140 | 350 | 5...8 | 2LC0901-4GC | -1AA0 | 433 |
| | | | Long | 65 | 150 | 250 | 259 | 840 | 961 | | | | 2LC0901-4GC | -2AA0 | 431 |
| 887 | 1500 | Standard | 65 | 150 | 250 | 251 | 990 | 1104 | 130 | 180 | 440 | 5...10 | 2LC0901-5GC | -1AA0 | 719 |
| | | | Long | 65 | 170 | 300 | 301 | 990 | 1154 | | | | 2LC0901-5GC | -2AA0 | 723 |

$\varnothing D1$: Without finished bore – Without order codes

With finished bore – With order codes for diameter and tolerance (product code without **-Z**)

$\varnothing D2$: Without finished bore – Without order codes

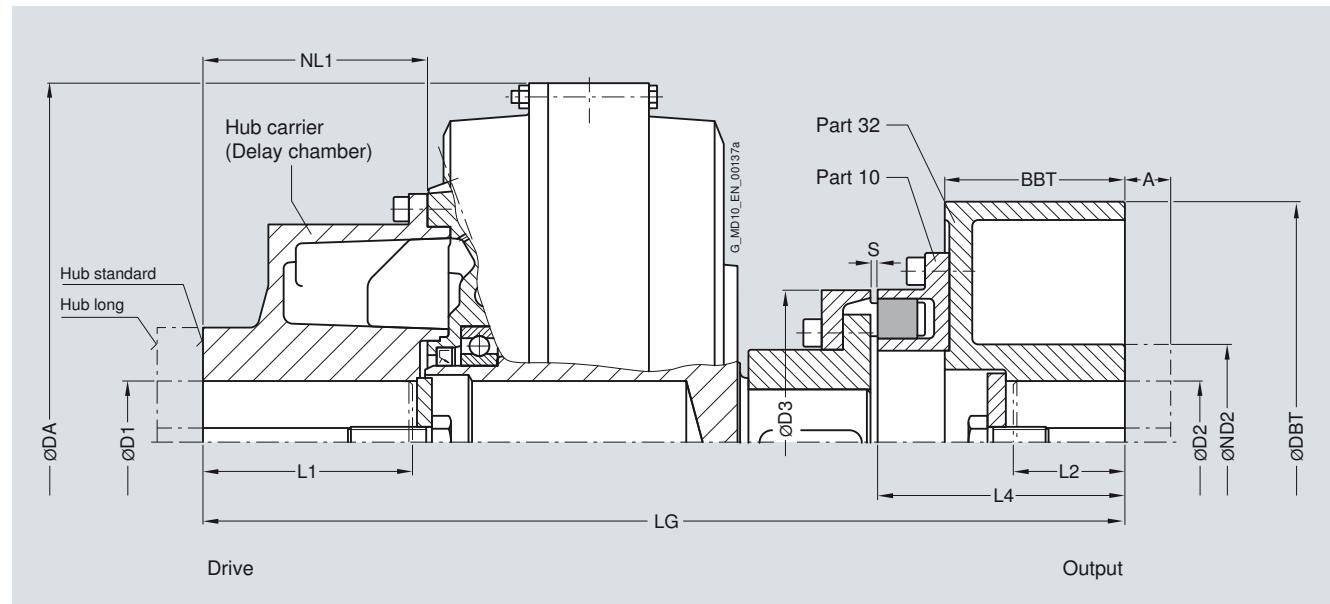
With finished bore – With order codes for diameter and tolerance (product code without **-Z**)

For centroidal distance Y and weight F_y , see page 13/47.

For ordering example, see page 13/39.

Selection and ordering data

Type with large delay chamber and attached N-EUPEX coupling and brake drum.
Enables fitting and dismounting of the coupling without displacement of the coupled shafts.



| Size | Maximum speed n_{Kmax} | Hub | Hub carrier Dimensions in mm | | | | | | | | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m | | | | | | | |
|------|-----------------------------|----------|------------------------------|-----|-----|-----|------------------|-----|----------------------|-------|---|---------------|-----|-----|-----|-----|--|--|--|
| | | | FLUDEX coupling | | | | N-EUPEX coupling | | Part 32 – Brake drum | | | | | | | | | | |
| rpm | | | D1 | L1 | NL1 | DA | LG | D3 | S | L4 | D2 | ND2 | DBT | A | | | | | |
| 370 | 2400 | Standard | 38 | 55 | 110 | 115 | 420 | 542 | 180 | 4...6 | 157 | 80 | 128 | 315 | 118 | 50 | 2LC0900-8GD ■■■ -1 ■ A0 98 L..+M.. | | |
| | | Long | 38 | 80 | 140 | 145 | 420 | 572 | | | | | | | | | 2LC0900-8GD ■■■ -2 ■ A0 97 L..+M.. | | |
| | 1900 | Standard | 38 | 55 | 110 | 115 | 420 | 574 | | | | | 189 | 90 | 160 | 400 | 150 | 80 | 2LC0900-8GD ■■■ -1 ■ A0 125 L..+M.. |
| | | Long | 38 | 80 | 140 | 145 | 420 | 604 | | | | | | | | | | 2LC0900-8GD ■■■ -2 ■ A0 124 L..+M.. | |
| 425 | 2400 | Standard | 42 | 75 | 140 | 147 | 470 | 604 | 200 | 4...6 | 162 | 80 | 128 | 315 | 118 | 50 | 2LC0901-0GD ■■■ -1 ■ A0 126 L..+M.. | | |
| | | Long | 42 | 100 | 170 | 177 | 470 | 634 | | | | | | | | | | 2LC0901-0GD ■■■ -2 ■ A0 125 L..+M.. | |
| | 1900 | Standard | 42 | 75 | 140 | 147 | 470 | 636 | | | | | 194 | 90 | 160 | 400 | 150 | 80 | 2LC0901-0GD ■■■ -1 ■ A0 151 L..+M.. |
| | | Long | 42 | 100 | 170 | 177 | 470 | 666 | | | | | | | | | | 2LC0901-0GD ■■■ -2 ■ A0 150 L..+M.. | |

$\varnothing D1$: Without finished bore – Without order codes
With finished bore – With order codes for diameter and tolerance (product code without -Z)

$\varnothing D2$: Without finished bore – Without order codes
With finished bore – With order codes for diameter and tolerance (product code without -Z)

Part 32: Small brake drum, without extension A
Small brake drum, with extension A (increase of lengths L4 and LG by the amount A)
Large brake drum, without extension A
Large brake drum, with extension A (increase of lengths L4 and LG by the amount A)

L2 denotes the shaft insertion depth.

In the case of shaft ends deviating from DIN 748 the insertion depth must be specified in plain text and with **Y29**.

For centroidal distance Y and weight F_y , see page 13/47.

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Type FNDB

| Size | Maxi- mum speed n_{kmax} | Hub carrier FLUDEX coupling | Dimensions in mm | | | | | N-EUPEX coupling | | | | | Part 32 – Brake drum | | | | | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight <i>m</i> |
|------------|-------------------------------------|--------------------------------|----------------------------|-----|-----|-----|-----|------------------|-----|----|--------|-----|----------------------|-----|-----|------|-----|---|--------------------|
| | | | D1 | L1 | NL1 | DA | LG | D3 | S | L4 | D2 | ND2 | DBT | BBT | A | max. | | | |
| 490 | 1900 rpm | Hub | Keyway to max. DIN 6885 | | | | | N-EUPEX size | | | | | Part 32 – Brake drum | | | | | Available at short term | kg |
| | | Standard | 48 | 75 | 140 | 148 | 555 | 689 | 225 | | 4...6 | 199 | 90 | 160 | 400 | 150 | 80 | | |
| | | Long | 48 | 110 | 170 | 178 | 555 | 719 | | | | | | | | | | 2LC0901-1GD ■■■-1 ■ A0 | 201 |
| | | Standard | 48 | 75 | 140 | 148 | 555 | 729 | | | | | | | | | | 2LC0901-1GD ■■■-2 ■ A0 | 198 |
| | 1500 ¹⁾ | Standard | 48 | 75 | 140 | 148 | 555 | 729 | | | | | | | | | | 2LC0901-1GD ■■■-1 ■ A0 | 240 |
| | | Long | 48 | 110 | 170 | 178 | 555 | 759 | | | | | | | | | | 2LC0901-1GD ■■■-2 ■ A0 | 237 |
| | | Standard | 65 | 95 | 170 | 178 | 630 | 756 | 250 | | 5...8 | 207 | 100 | 160 | 400 | 150 | 80 | 2LC0901-2GD ■■■-1 ■ A0 | 258 |
| | | Long | 65 | 120 | 210 | 218 | 630 | 796 | | | | | | | | | | 2LC0901-2GD ■■■-2 ■ A0 | 256 |
| 565 | 1900 rpm | Standard | 65 | 95 | 170 | 178 | 630 | 796 | | | | | | | | | | 2LC0901-2GD ■■■-1 ■ A0 | 291 |
| | | Long | 65 | 120 | 210 | 218 | 630 | 796 | | | | | | | | | | 2LC0901-2GD ■■■-2 ■ A0 | 293 |
| | | Standard | 65 | 95 | 170 | 178 | 630 | 796 | | | | | | | | | | 2LC0901-3GD ■■■-1 ■ A0 | 394 |
| | | Long | 65 | 120 | 210 | 218 | 630 | 836 | | | | | | | | | | 2LC0901-3GD ■■■-2 ■ A0 | 390 |
| | 1500 ¹⁾ | Standard | 65 | 110 | 210 | 218 | 736 | 907 | 315 | | 5...8 | 257 | 110 | 175 | 500 | 190 | 110 | 2LC0901-3GD ■■■-1 ■ A0 | 449 |
| | | Long | 65 | 135 | 250 | 258 | 736 | 947 | | | | | | | | | | 2LC0901-3GD ■■■-2 ■ A0 | 445 |
| | | Standard | 65 | 110 | 210 | 218 | 736 | 953 | | | | | | | | | | 2LC0901-4GD ■■■-1 ■ A0 | 569 |
| | | Long | 65 | 135 | 250 | 258 | 736 | 993 | | | | | | | | | | 2LC0901-4GD ■■■-2 ■ A0 | 572 |
| 755 | 1500 rpm | Standard | 65 | 120 | 210 | 219 | 840 | 1018 | 350 | | 5...8 | 307 | 140 | 224 | 630 | 236 | 100 | 2LC0901-5GD ■■■-1 ■ A0 | 902 |
| | | Long | 65 | 150 | 250 | 259 | 840 | 1058 | | | | | | | | | | 2LC0901-5GD ■■■-2 ■ A0 | 915 |
| 887 | 1300 rpm | Standard | 65 | 150 | 250 | 251 | 990 | 1190 | 440 | | 5...10 | 347 | 160 | 265 | 710 | 265 | - | 1 | 9 |
| | | Long | 65 | 170 | 300 | 301 | 990 | 1240 | | | | | | | | | | 1 | 9 |

ØD1: Without finished bore – Without order codes
With finished bore – With order codes for diameter and tolerance (product code without -Z)

ØD2: Without finished bore – Without order codes
With finished bore – With order codes for diameter and tolerance (product code without -Z)

Part 32: Small brake drum, without extension A
Small brake drum, with extension A (increase of lengths L4 and LG by the amount A)
Large brake drum, without extension A
Large brake drum, with extension A (increase of lengths L4 and LG by the amount A)

Ordering example:

Motor 55 kW, $P_{eff} = 45$ kW, $n_1 = 1470$ rpm

Selection:

FLUDEX FNDB coupling size 370, standard type,
Hub carrier: Long hub bore ØD1 = 65H7 mm with keyway to
DIN 6885/1 and set screw,
Part 32: Ø315 x 118, bore ØD2 = 80H7 mm with keyway to
DIN 6885/1 and retaining screw,
with electronic or mechanical operation monitoring, seal set
Perbunan.
Delivery without oil filling, no oil filling quantity specification.

Product code:

- With brake drum part 32 Ø315 x 118:
2LC0900-8GD99-2AA0
L1F+M1J
- With brake drum part 32 Ø400 x 150 extended:
2LC0900-8GD99-2DA0
L1F+M1J

¹⁾ With version of brake drum in grey cast iron: Maximum speed
1800 rpm possible.

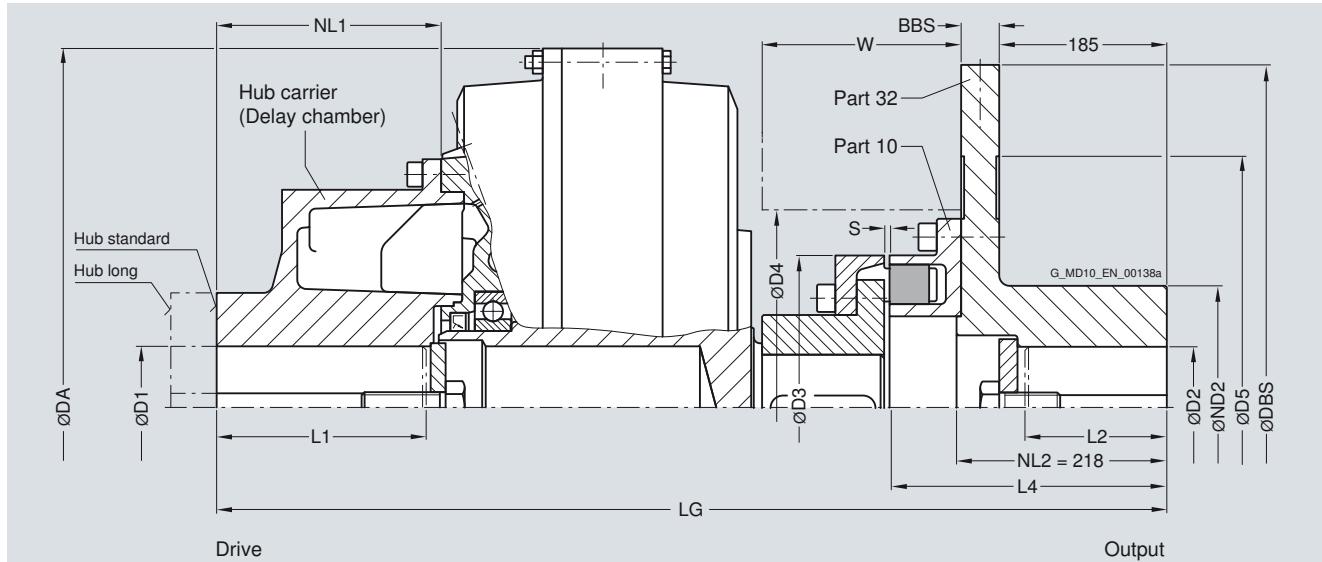
FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Type FNDS SB with large delay chamber
and brake disk for stopping brake

Selection and ordering data

Type with large delay chamber, attached N-EUPEX coupling and brake disk for stopping brakes.
Enables fitting and dismounting of the coupling without displacement of the coupled shafts.



| Size | Maximum speed n_{kmax} rpm | Hub carrier | Dimensions in mm FLUDEX coupling | | | | | | | | | | N-EUPEX coupling | Part 32 – Brake disk ¹⁾ | Space dimensions | Product code with order codes for bore diameters and tolerances (product code without -Z) – selection in catalog part 3 | Weight m | |
|------------|------------------------------------|-----------------|---|-----|-----|-----|-----|------|------|--------|-----|-----|------------------|------------------------------------|------------------|--|-------------|--|
| | | | D1 | L1 | NL1 | DA | LG | D3 | S | L4 | D2 | ND2 | DBS | BBS | D5 | D4 | W | |
| 370 | 2100 | Hub Standard | 38 | 55 | 110 | 115 | 420 | 642 | 180 | 4...6 | 257 | 80 | 145 | 450 | 30 | 300 | 222 | 127 |
| | | | Keyway to max. DIN 6885 min. max. | | | | | | | | | | | | | | | Available at short term |
| 425 | 1900 | Hub Standard | 42 | 75 | 140 | 147 | 470 | 704 | 200 | 4...6 | 262 | 80 | 160 | 500 | 30 | 340 | 250 | 144 |
| | | | Long | 42 | 100 | 170 | 177 | 470 | 734 | | | | | | | | | 2LC0901-0GE ■■■ -1BA0 161 L..+M.. |
| 490 | 1800 | Hub Standard | 48 | 75 | 140 | 148 | 555 | 757 | 225 | 4...6 | 267 | 90 | 160 | 560 | 30 | 370 | 276 | 159 |
| | | | Long | 48 | 110 | 170 | 178 | 555 | 787 | | | | | | | | | 2LC0901-1GE ■■■ -2BA0 211 L..+M.. |
| 565 | 1800 | Hub Standard | 65 | 95 | 170 | 178 | 630 | 824 | 250 | 5...8 | 275 | 100 | 175 | 630 | 30 | 440 | 317 | 181 |
| | | | Long | 65 | 120 | 210 | 218 | 630 | 864 | | | | | | | | | 2LC0901-2GE ■■■ -1BA0 290 L..+M.. 2LC0901-2GE ■■■ -2BA0 291 L..+M.. |
| 655 | 1800 | Hub Standard | 65 | 110 | 210 | 218 | 736 | 935 | 315 | 5...8 | 285 | 100 | 175 | 630 | 30 | 440 | 385 | 203 |
| | | | Long | 65 | 135 | 250 | 258 | 736 | 975 | | | | | | | | | 2LC0901-3GE ■■■ -1AA0 382 L..+M.. 2LC0901-3GE ■■■ -2AA0 385 L..+M.. |
| 755 | 1500 | Hub Standard | 65 | 120 | 210 | 219 | 840 | 1000 | 350 | 5...8 | 289 | 140 | 220 | 710 | 30 | 520 | 435 | 222 |
| | | | Long | 65 | 150 | 250 | 259 | 840 | 1040 | | | | | | | | | 2LC0901-4GE ■■■ -1AA0 508 L..+M.. 2LC0901-4GE ■■■ -2AA0 511 L..+M.. |
| 887 | 1200 | Hub Standard | 65 | 150 | 250 | 251 | 990 | 1144 | 440 | 5...10 | 301 | 140 | 220 | 800 | 30 | 610 | 525 | 268 |
| | | | Long | 65 | 170 | 300 | 301 | 990 | 1194 | | | | | | | | | 2LC0901-5GE ■■■ -1AA0 788 L..+M.. 2LC0901-5GE ■■■ -2AA0 801 L..+M.. |

$\varnothing D1$: Without finished bore – Without order codes

With finished bore – With order codes for diameter and tolerance (product code without -Z)

$\varnothing D2$: Without finished bore – Without order codes

With finished bore – With order codes for diameter and tolerance (product code without -Z)

L2 denotes the shaft insertion depth.

In the case of shaft ends deviating from DIN 748 the insertion depth must be specified in plain text and with **Y29**.

¹⁾ Hub reduction possible; specify product code with “-Z” and order code “**Y99**” with dimension NL2 in plain text.

For centroidal distance Y and weight F_y , see page 13/47.

For ordering example, see page 13/40.

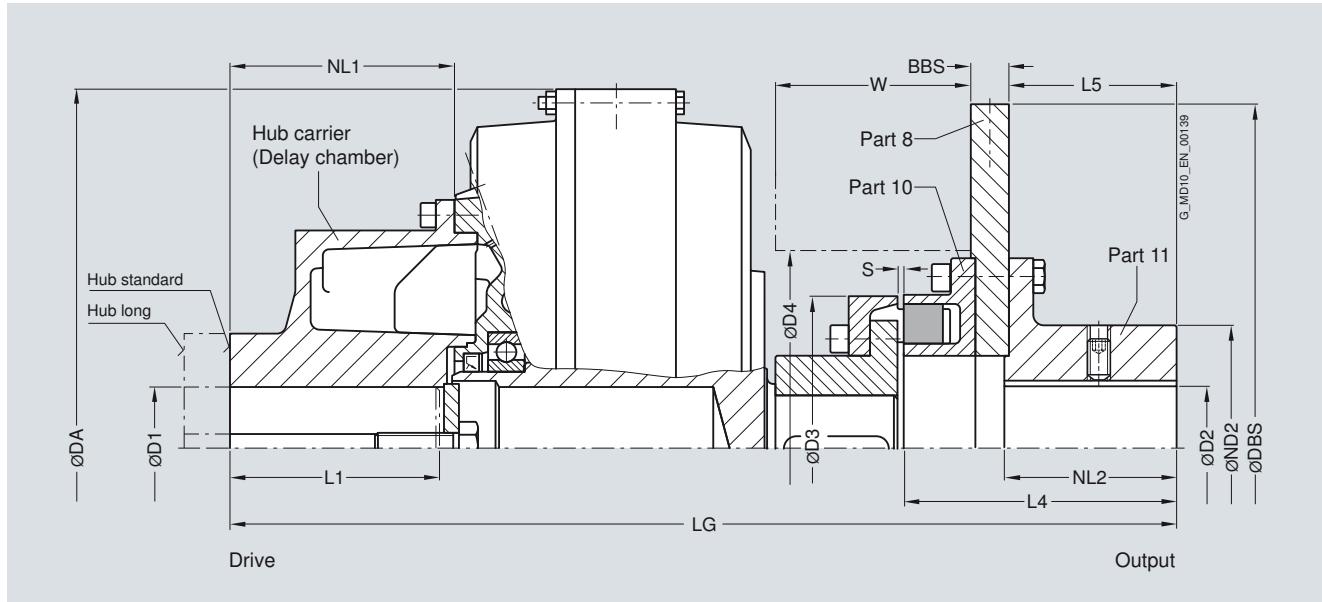
FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Type FNDS HB with large delay chamber and brake disk for blocking brake

Selection and ordering data

Type with large delay chamber, attached N-EUPEX coupling and brake disk for blocking brakes. Enables fitting and dismounting of the coupling without displacement of the coupled shafts.



QD1: Without finished here. Without order codes

With finished bore – With order codes for diameter and tolerance (product code without -7)

ØD3: Without finished bore – Without order codes

Without finished bore – Without order codes With finished bore – With order codes for diameter and tolerance (product code without -Z)

For centroidal distance Y and weight F_y , see page 13/47.

For ordering example, see page 13/40.

1) Hub reduction possible; specify product code with “-Z” and order code “Y99” with dimension L5 in plain text

Oil filling quantities for FN series

Selection and ordering data

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

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

| P_{eff} | Speed in rpm | | | | | | | Size | | |
|------------------|--------------|-------|-------|-------|------|------|------|------|------|------|
| kW | 600 | 740 | 890 | 980 | 1180 | 1470 | 1770 | 2300 | 2950 | 3550 |
| 1.1 | 5.6 | | | | | | | | | |
| 2.2 | 7.1 | 5.7 | | | | | | | | |
| 3.0 | 7.9 | 6.4 | 5.1 | | | | | | | |
| 4.0 | 8.2 | 7.0 | 5.8 | 5.1 | | | | | | |
| 5.5 | 14.4 | 7.8 | 6.5 | 5.9 | | | | | | |
| 7.5 | 16.0 | 8.2 | 7.2 | 6.5 | 5.3 | | | | | |
| 11 | 18.2 | 14.7 | 8.2 | 7.4 | 6.2 | | | | | |
| 15 | 19.0 | 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 | 19.0 | 17.0 | 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 | 45.0 | 36.2 | 19.0 | 17.7 | 14.7 | 7.9 | 6.6 | 4.7 | | |
| 55 | 45.0 | 38.2 | 32.9 | 19.0 | 15.8 | 12.2 | 7.0 | 5.3 | | |
| 75 | 76.5 | 43.0 | 35.8 | 33.1 | 17.4 | 14.0 | 7.8 | 6.0 | 4.3 | |
| 90 | 80.5 | 45.0 | 37.6 | 34.8 | 18.7 | 14.9 | 11.7 | 6.4 | 4.6 | |
| 110 | 85.2 | 45.0 | 40.1 | 36.7 | 31.8 | 16.0 | 13.1 | 6.8 | 5.1 | |
| 132 | 89.5 | 74.7 | 43.3 | 38.6 | 33.2 | 16.9 | 14.0 | 7.2 | 5.6 | 4.3 |
| 160 | 95.6 | 80.0 | 45.0 | 41.5 | 35.0 | 18.1 | 15.0 | 10.7 | 6.0 | 4.7 |
| 200 | 105.5 | 84.5 | 71.5 | 45.0 | 37.1 | 31.1 | 16.2 | 11.8 | 6.5 | 5.2 |
| 250 | 110.0 | 89.7 | 76.9 | 45.0 | 39.7 | 33.0 | 17.4 | 13.2 | 5.8 | |
| 315 | | 97.5 | 82.4 | 76.5 | 43.8 | 35.1 | 30.2 | 14.5 | | 490 |
| 350 | | 102.1 | 84.6 | 78.4 | 45.0 | 36.1 | 31.2 | 15.0 | | |
| 400 | | 108.9 | 87.6 | 81.2 | 45.0 | 37.4 | 32.3 | | | 655 |
| 500 | | | 94.1 | 86.1 | 73.3 | 40.2 | 34.2 | | | |
| 600 | | | 101.4 | 90.6 | 78.1 | 43.5 | 35.9 | | | |
| 750 | | | 110.0 | 98.5 | 82.9 | 66.9 | 38.2 | | | |
| 900 | | | | 107.2 | 86.8 | 72.7 | | | | 887 |
| 1100 | | | | | 92.1 | 77.1 | | | | |
| 1300 | | | | | 98.2 | 80.4 | | | | |
| 1600 | | | | | | 84.9 | | | | |

Ordering example type FNO from page 13/32:

Motor 110 kW, $P_{\text{eff}} = 90 \text{ kW}$, $n_1 = 1470 \text{ rpm}$, maximum output torque $T_{\max} = 1.3 \times T_{\text{eff}}$

Selection:

FLUDEX FNO coupling size 425,

Hub carrier: Standard hub bore $\text{ØD1} = 75\text{H7}$ mm with keyway to DIN 6885/1 and retaining screw, seal set Viton.

Specification of oil filling quantity: 12.4 l (see under oil filling quantities for the FN series in this catalog section).

Product code:

- With 110 °C fuse:

**2LC0901-0GA90-1AA0-Z
L1H+Y90+F05**
plain text to Y90: **12.4 I**

- With 140 °C fuse:

**2LC0901-0GA90-1AA0-Z
L1H+Y90+F07**
plain text to Y90: **12.4 I**

- With 160 °C fuse:

**2LC0901-0GA90-1AA0-Z
L1H+Y90+F08**
plain text to Y90: **12.4 I**

Ordering example type FND from page 13/34:

Motor 132 kW, $P_{\text{eff}} = 110 \text{ kW}$, $n_1 = 1470 \text{ rpm}$

Selection:

FLUDEX FND coupling size 490,

Hub carrier: Long hub bore $\text{ØD1} = 80\text{H7}$ mm with keyway to DIN 6885/1 and set screw,

Part 11: Bore $\text{ØD1} = 80\text{H7}$ mm with keyway to DIN 6885/1 and set screw, with electronic or mechanical operation monitoring, seal set Perbunan.

Delivery without oil filling, no oil filling quantity specification.

Product code:

- With 110 °C thermal switch:

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

- With 125 °C EOC transmitter:

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

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Oil filling quantities for FN series

| P_{eff} | Speed in rpm | | | | | | | | | | Size |
|------------------|---------------------------|------|------|------|------|------|------|------|------|------|------|
| kW | 600 | 740 | 890 | 980 | 1180 | 1470 | 1770 | 2300 | 2950 | 3550 | |
| | Oil filling quantity in l | | | | | | | | | | |
| 3.0 | 9.7 | | | | | | | | | | |
| 4.0 | 10.7 | 8.6 | | | | | | | | | |
| 5.5 | 12.0 | 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 | 12.0 | 10.8 | 8.9 | | | | | | |
| 22 | 28.6 | 23.1 | 12.5 | 11.6 | 9.6 | | | | | | |
| 30 | 46.3 | 25.7 | 21.1 | 12.5 | 10.7 | 8.5 | | | | | |
| 37 | 48.6 | 27.5 | 22.9 | 20.5 | 11.4 | 9.2 | 7.1 | | | | |
| 45 | 51.5 | 29.0 | 24.5 | 22.0 | 12.3 | 9.8 | 7.8 | | | | |
| 55 | 54.0 | 29.0 | 26.1 | 23.7 | 18.7 | 10.5 | 8.6 | | | | |
| 75 | 60.0 | 49.5 | 29.0 | 26.3 | 21.7 | 11.6 | 9.7 | 6.9 | | | |
| 90 | 65.0 | 52.0 | 29.0 | 27.9 | 23.2 | 12.4 | 10.3 | 7.4 | | | |
| 110 | 69.0 | 55.0 | 47.5 | 29.0 | 24.9 | 19.0 | 11.0 | 8.3 | | | |
| 132 | | 58.5 | 50.0 | 46.4 | 26.3 | 20.9 | 11.7 | 8.9 | 6.6 | | 425 |
| 160 | | 63.5 | 52.5 | 48.5 | 28.1 | 22.5 | 17.4 | 9.6 | 6.9 | | |
| 180 | | 67.5 | 54.0 | 50.0 | 29.0 | 23.4 | 18.4 | 10.0 | 7.2 | | |
| 200 | | 69.0 | 55.5 | 51.5 | 44.4 | 24.3 | 19.5 | 10.3 | 7.6 | | |
| 250 | | | 60.5 | 54.5 | 47.0 | 26.2 | 21.6 | 16.0 | 8.6 | | |
| 315 | | | | 67.5 | 59.0 | 50.0 | 28.3 | 23.5 | 16.7 | 9.3 | |
| 350 | | | | | 62.0 | 51.5 | 43.1 | 24.4 | 17.4 | | 565 |
| 400 | | | | | | 66.0 | 53.5 | 44.9 | 25.5 | 18.5 | |
| 500 | | | | | | | 57.0 | 47.5 | 40.7 | 20.8 | |
| 600 | | | | | | | | 61.0 | 50.0 | 42.9 | 22.3 |
| 750 | | | | | | | | | 53.0 | 45.9 | 755 |
| 900 | | | | | | | | | 55.5 | 48.0 | |
| 1100 | | | | | | | | | | 50.5 | |
| 1200 | | | | | | | | | | 53.0 | |

Ordering example type FNDS SB from page 13/37:

Motor 37 kW, $P_{\text{eff}} = 30 \text{ kW}$, $n_1 = 1470 \text{ rpm}$

Selection:

FLUDEX FNDS SB coupling size 370,
Hub carrier: Standard hub bore ØD1 = 55H7 mm with keyway to DIN 6885/1 and retaining screw,
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.

Product code:

- With standard preservation:
**2LC0900-8GE99-1CA0
L1D+M1H**
- With preservation for 6 months:
**2LC0900-8GE99-1CA0-Z
L1D+M1H+B31**
- With preservation for 24 months:
**2LC0900-8GE99-1CA0-Z
L1D+M1H+B28**
- With preservation for 36 months:
**2LC0900-8GE99-1CA0-Z
L1D+M1H+B34**

Ordering example type FNDS HB from page 13/38:

Motor 200 kW, $P_{\text{eff}} = 160 \text{ kW}$, $n_1 = 1470 \text{ rpm}$

Selection:

FLUDEX FNDS HB coupling size 490,
Hub carrier: Long hub bore ØD1 = 110H7 mm with keyway to DIN 6885/1 and set screw,
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.

Product code:

- In horizontal version:
**2LC0901-1GF99-2AA0
L1Q+M1J**
- In vertical version MU:
**2LC0901-1GF99-2AA0-Z
L1Q+M1J+F14**

Selection and ordering data

Apply to standard catalog couplings

Flexible elements for N-EUPEX add-on coupling

| Series | FLUDEX size | Type | N-EUPEX size | Number flexibles per set | Product code 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 |
| | | 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 |
| | | All types | 250 | 8 | FFA:000001194878 |
| | | | 315 | 9 | FFA:000001194879 |
| | 565 | | 350 | 9 | FFA:000001194883 |
| | 655 | | 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.

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Spare parts

Thermal equipment

| FLUDEX size | Thread | Part no. | Fuse element | Response temperature | Product code (FFA) for one unit |
|------------------|-----------|-----------|--|----------------------|---------------------------------|
| 222 | M10 | 103 + 104 | Fusible safety plug | 110 °C | FFA:000001194896 |
| | | 203 + 204 | | 140 °C | FFA:000001194897 |
| | | | | 160 °C | FFA:000001194898 |
| | M10 | 153 + 104 | Oil filler plug | – | FFA:000001194894 |
| 297 | M10 | 153 + 104 | Oil filler plug | – | FFA:000001194894 |
| 297 - 887 | M18 x 1.5 | 103 | Fusible safety plug | 110 °C | FFA:000001250338 |
| | | 203 | | 140 °C | FFA:000001250339 |
| | | | | 160 °C | FFA:000001250380 |
| | M18 x 1.5 | 110 | Thermal switch | 110 °C | FFA:000001361795 |
| | | 210 | | 140 °C | FFA:000001361796 |
| | M18 x 1.5 | 153 | Oil filler plug (except size 887) | – | FFA:000001337653 |
| | | 163 | Screw plug | | |
| | | 301 | Cut-out device | – | FFA:000000652020 |
| | – | 142 | EOC transmitter with seal | 125 °C | FFA:000001194899 |
| | | 245 | Sensor EOC | – | FFA:000000361460 |
| | | 244 | Evaluation instrument EWD 20 ... 250 V AC/DC | – | FFA:000001205294 |
| 370 - 755 | M10 | 173 + 174 | Oil drain plug - delay chamber | – | FFA:000001194894 |
| 887 | M30 x 1.5 | 153 + 154 | Oil filler plug (up to and including year of construction 2007) | – | FFA:000001194893 |
| | | 153 | Oil filler plug (from year of construction 2008) | – | FFA:000001349554 |
| | M16 | 173 + 174 | Oil drain plug - delay chamber | – | FFA:000001154895 |

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

| FLUDEX size | Seal set material | Product code (FFA) for one seal set | Product code (FFA) for one rolling bearing set |
|---|-------------------|-------------------------------------|--|
| 222 (Up to and including year of construction 2000) | NBR | FFA:000001194900 | FFA:000001194800 |
| 222 (From year of construction 2001) | NBR | FFA:000001194901 | FFA:000001194801 |
| | FPM | FFA:000001194902 | |
| 297 (Up to and including year of construction 2000) | NBR | FFA:000001194903 | FFA:000001194802 |
| | FPM | FFA:000001194904 | |
| 297 (From year of construction 2001) | NBR | FFA:000001194905 | FFA:000001194803 |
| | FPM | FFA:000001194906 | |
| 342 | 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 | |

Seal and rolling bearing sets for type FAR¹⁾

| FLUDEX size | Variant | Up to and including year of construction | From year of construction | Seal set material | Product code (FFA) for one seal set | Product code (FFA) for one rolling bearing set |
|-------------|----------------------------|--|---------------------------|-------------------|-------------------------------------|--|
| 222 | 2 x SPZ 100 | 2000 | | NBR | FFA:000001194917 | FFA:000001194809 |
| | | | 2001 | NBR | FFA:000001194918 | FFA:000001194810 |
| | 3 x SPZ 160 | | 2001 | FPM | FFA:000001194919 | |
| 297 | 5 x SPZ 140 | 2000 | | NBR | FFA:000001194922 | FFA:000001194812 |
| | | | | FPM | FFA:000001194923 | |
| | 7 x SPZ 140 | 2000 | | NBR | FFA:000001194924 | FFA:000001194813 |
| | | | | FPM | FFA:000001194925 | |
| 342 | 5 x SPA 150 4 x SPA 190 | 2001 | | NBR | FFA:000001194926 | FFA:000001194814 |
| | | | | FPM | FFA:000001194927 | |
| | 5 x SPA 224 | 2001 | | NBR | FFA:000001194928 | |
| | | | | FPM | FFA:000001194929 | |
| 395 | 5 x SPA 180 | | | NBR | FFA:000001194930 | FFA:000001194815 |
| | | | | FPM | FFA:000001194931 | |
| | 7 x SPA 180 | 2000 | | NBR | FFA:000001194932 | FFA:000001194816 |
| | | | | FPM | FFA:000001194933 | |
| 450 | 8 x SPB 250 | 2000 (ØD1 ≤ 75) | | NBR | FFA:000001194940 | FFA:000001194820 |
| | | | | FPM | FFA:000001194941 | |
| | | ØD1 ≤ 75 | 2001 | NBR | FFA:000001194942 | FFA:000001194821 |
| | | ØD1 = 73.025 | 2001 | NBR | FFA:000001194943 | FFA:000001194822 |
| 516 | 10 x SPB 250 | ØD1 > 75 | | NBR | FFA:000001194944 | |
| | | | | FPM | FFA:000001194945 | |
| | | 2000 | | NBR | FFA:000001194946 | FFA:000001194823 |
| | | | | FPM | FFA:000001194947 | |
| 590 | 12 x SPC 315 | 2000 | | NBR | FFA:000001194948 | FFA:000001194824 |
| | | | | FPM | FFA:000001194949 | |
| | | 2001 | | NBR | FFA:000001194950 | FFA:000001194825 |
| | | | | FPM | FFA:000001194951 | |
| 590 | 12 x SPC 315 | 2000 | | NBR | FFA:000001194952 | FFA:000001194826 |
| | | | | FPM | FFA:000001194953 | |
| | | 2001 | | NBR | FFA:000001194954 | FFA:000001194827 |
| | | | | FPM | FFA:000001194955 | |

¹⁾ Spare parts valid only for specified pulleys. When enquiring for other numbers of grooves, please quote original delivery number.

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Spare parts

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

| FLUDEX size | Series | Additional bore specifications | Seal set material | Product code (FFA) for one seal set | Product code (FFA) for one rolling bearing set |
|-------------|--------------|--------------------------------|-------------------|-------------------------------------|---|
| 370 | FG | | NBR | FFA:000001194958 | Up to and including year of construction 2000: FFA:000001194959 |
| | | | FPM | FFA:000001194959 | |
| | FV/FN | | NBR | FFA:000001194960 | From year of construction 2001: FFA:000001194851 |
| | | | FPM | FFA:000001194961 | |
| 425 | FG | | NBR | FFA:000001194962 | FFA:000001194852 |
| | | | FPM | FFA:000001194963 | |
| | FV/FN | | NBR | FFA:000001194964 | |
| | | | FPM | FFA:000001194965 | |
| 490 | FG | | NBR | FFA:000001194966 | FFA:000001194853 |
| | | | FPM | FFA:000001194967 | |
| | FV/FN | | NBR | FFA:000001194968 | |
| | | | FPM | FFA:000001194969 | |
| 565 | FG | | NBR | FFA:000001194970 | FFA:000001194854 |
| | | | FPM | FFA:000001194971 | |
| | FV/FN | | NBR | FFA:000001194972 | |
| | | | FPM | FFA:000001194973 | |
| 655 | FG | ØD2 ≤ 100 | NBR | FFA:000001194974 | FFA:000001194855 |
| | | | FPM | FFA:000001194975 | |
| | | ØD2 > 100 | NBR | FFA:000001194976 | FFA:000001194856 |
| | | | FPM | FFA:000001194977 | |
| | FV | ØD2 ≤ 100 | NBR | FFA:000001194978 | FFA:000001194855 |
| | | | FPM | FFA:000001194979 | |
| | | ØD2 > 100 | NBR | FFA:000001194980 | FFA:000001194856 |
| | | | FPM | FFA:000001194981 | |
| 755 | FN | | NBR | FFA:000001194978 | FFA:000001194855 |
| | | | FPM | FFA:000001194979 | |
| | | ØD2 ≤ 110 | NBR | FFA:000001194982 | FFA:000001194857 |
| | | | FPM | FFA:000001194983 | |
| | FV | ØD2 > 110 | NBR | FFA:000001194984 | FFA:000001194858 |
| | | | FPM | FFA:000001194985 | |
| | | ØD2 ≤ 110 | NBR | FFA:000001194986 | FFA:000001194857 |
| | | | FPM | FFA:000001194987 | |
| 887 | FG | ØD2 > 110 | NBR | FFA:000001194988 | FFA:000001194858 |
| | | | FPM | FFA:000001194989 | |
| | FN | | NBR | FFA:000001194990 | FFA:000001194859 |
| | | | FPM | FFA:000001194991 | |
| | FV/FN | | FPM | FFA:000001194993 | FFA:000001194860 |
| | | | FPM | FFA:000001194992 | |

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Mass moments of inertia
and maximum oil filling quantities

Technical data

FA series (for type FAR, see separate table)

| FLUDEX size | Series | Types | | | | | | Oil filling quantity max. l | |
|-------------|--------|-------|-------|-------|-------|-------|---------|--------------------------------|------|
| | FA | FAO | FAD | FAE | FAM | FADB | FADS SB | FADS HB | |
| 222 | 0.014 | 0.056 | 0.061 | 0.061 | 0.060 | 0.084 | 0.287 | 0.109 | 1.65 |
| 297 | 0.040 | 0.173 | 0.193 | 0.193 | 0.193 | 0.226 | 0.673 | 0.246 | 4.2 |
| 342 | 0.092 | 0.314 | 0.356 | 0.352 | 0.353 | 0.469 | 1.002 | 0.420 | 6.6 |
| 395 | 0.203 | 0.660 | 0.745 | 0.730 | — | 1.030 | 1.814 | 1.150 | 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 |

Type FAR

| FLUDEX size | J_I | J_A | | | Oil filling quantity max. l |
|-------------|-----------------|----------------|-------------|-------------|--------------------------------|
| | kgm^2 | kgm^2 | | | |
| 222 | 0.014 | 2 x SPZ 100 | 3 x SPZ 160 | | 1.65 |
| | | 0.062 | 0.071 | | |
| 297 | 0.107 | 5 x SPZ 150 | 4 x SPA 190 | 5 x SPA 224 | 4.2 |
| | | 0.202 | 0.235 | 0.273 | |
| 342 | 0.095 | 5 x SPA 180 | | | 6.6 |
| | | 0.386 | | | |
| 395 | 5 x SPB = 0.214 | 5 x SPB 224 | 7 x SPB 236 | 7 x SPB 280 | 9.5 |
| | 7 x SPB = 0.210 | 0.840 | 0.960 | 1.144 | |
| 450 | 0.426 | 8 x SPB 250 | | | 13.4 |
| | | 1.467 | | | |
| 516 | 0.946 | 10 x SPB 315 | | | 22.7 |
| | | 3.209 | | | |
| 590 | 1.375 | 12 x SPC 315 | | | 33 |
| | | 4.955 | | | |

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Mass moments of inertia and maximum oil filling quantities

FG/FV series

| FLUDEX size | Series | | Types | | | | | | | | | | Oil filling quantity | |
|-------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------|------|----------------------|------|
| | FG | FV | FGO | FVO | FGD | FVD | FGE | FVE | FGM | FVM | FG | FV | max. | max. |
| | J _I kgm ² | J _I kgm ² | J _A kgm ² | I | I | | |
| 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 | 1.020 | 11 | 12 | | |
| 490 | 0.723 | 0.723 | 1.992 | 2.110 | 2.312 | 2.430 | 2.272 | 2.390 | 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 | – | – | – | – | 61 | 67 | | |
| 887 | 11.817 | 11.817 | 26.832 | 28.212 | 30.102 | 31.482 | – | – | – | – | 98 | 107 | | |

FN series (for type FNDB, see separate table)

| FLUDEX size | Hub carrier | Series | | Types | | | | Weights | | Oil filling quantity | |
|-------------|-------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|---------|----------------|----------------------|------|
| | | FN | FNO | FNA | FND | FNDS SB | FNDS HB | Y | F _Y | N | max. |
| | Hub | J _A kgm ² | J _I kgm ² | mm | N | I | |
| 370 | Standard | 0.657 | 0.237 | 0.281 | 0.320 | 1.180 | 0.386 | 197 | 665 | 8.2 | |
| | Long | 0.647 | | | | | | 227 | | | |
| 425 | Standard | 1.107 | 0.343 | 0.470 | 0.491 | 1.841 | 0.659 | 224 | 940 | 12.5 | |
| | Long | 1.102 | | | | | | 254 | | | |
| 490 | Standard | 2.480 | 0.737 | 0.954 | 0.999 | 3.009 | 1.285 | 235 | 1420 | 19 | |
| | Long | 2.474 | | | | | | 265 | | | |
| 565 | Standard | 4.175 | 1.364 | 1.715 | 1.835 | 5.075 | 2.081 | 278 | 1900 | 29 | |
| | Long | 4.251 | | | | | | 318 | | | |
| 655 | Standard | 9.319 | 2.567 | 3.587 | 3.777 | 6.777 | 4.701 | 330 | 3000 | 45 | |
| | Long | 9.523 | | | | | | 370 | | | |
| 755 | Standard | 15.616 | 4.910 | 6.878 | 7.198 | 12.078 | 9.689 | 352 | 4200 | 69 | |
| | Long | 15.950 | | | | | | 392 | | | |
| 887 | Standard | 33.662 | 11.832 | 15.132 | 16.632 | 24.030 | 20.428 | 406 | 6900 | 110 | |
| | Long | 34.462 | | | | | | 456 | | | |

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

**Mass moments of inertia
and maximum oil filling quantities**

Type FNDB

| FLUDEX size | Hub carrier | Brake drum | J_A | J_I | Weights Y | F_Y | Oil filling quantity max. |
|-------------|-------------|------------|----------------|----------------|-----------|-------|---------------------------|
| | Hub | ØDBT x BBT | kgm^2 | kgm^2 | mm | N | l |
| 370 | Standard | Ø315 x 118 | 0.657 | 0.640 | 197 | 665 | 8.2 |
| | | Ø400 x 150 | | 1.341 | | | |
| | Long | Ø315 x 118 | 0.647 | 0.640 | 227 | | |
| | | Ø400 x 150 | | 1.341 | | | |
| 425 | Standard | Ø315 x 118 | 1.107 | 0.811 | 224 | 940 | 12.5 |
| | | Ø400 x 150 | | 1.492 | | | |
| | Long | Ø315 x 118 | 1.102 | 0.811 | 254 | | |
| | | Ø400 x 150 | | 1.492 | | | |
| 490 | Standard | Ø400 x 150 | 2.480 | 1.994 | 235 | 1420 | 19 |
| | | Ø500 x 190 | | 4.009 | | | |
| | Long | Ø400 x 150 | 2.474 | 1.994 | 265 | | |
| | | Ø500 x 190 | | 4.009 | | | |
| 565 | Standard | Ø400 x 150 | 4.175 | 2.835 | 278 | 1900 | 29 |
| | | Ø500 x 190 | | 4.775 | | | |
| | Long | Ø400 x 150 | 4.251 | 2.835 | 318 | | |
| | | Ø500 x 190 | | 4.775 | | | |
| 655 | Standard | Ø500 x 190 | 9.319 | 6.677 | 330 | 3000 | 45 |
| | | Ø630 x 236 | | 11.577 | | | |
| | Long | Ø500 x 190 | 9.523 | 6.677 | 370 | | |
| | | Ø630 x 236 | | 11.577 | | | |
| 755 | Standard | Ø630 x 236 | 15.616 | 15.178 | 352 | 4200 | 69 |
| | Long | | 15.950 | | | | |
| 887 | Standard | Ø710 x 265 | 33.662 | 30.832 | 406 | 6900 | 110 |
| | | Long | 34.462 | | | | |

J_I Mass moment of inertia of the inner rotor (hollow shaft (106)/shaft (106) + blade wheel (105) + any parts of the add-on coupling connected to them) in kgm^2

J_A Mass moment of inertia of the outer housing (shell (101) + cover (102) + any hub carrier (120) or add-on coupling) in kgm^2

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

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

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Special types

Selection and ordering data

Selection of additional ordering data

| | |
|---|--|
| Special types | Additional ordering data -Z with order code and, if necessary with plain text specification |
| Oil filling | |
| Without oil filling and without oil filling quantity specification stamped on the coupling | Without addition – standard |
| With oil filling (specification of oil filling quantity "+Y90" required) | F16 |
| With specification of oil filling quantity | Y90 • and orderer specification |
| Thermal equipment | |
| Standard type (fuse 140 °C, seal set Perbunan) | Without addition – standard |
| Fuse 110 °C, seal set Perbunan | F01 |
| Explosion protection in conformity to 94/9EG ATEX100A, seal set Perbunan | F02 |
| Thermal switch 110 °C, fuse 140 °C, seal set Perbunan (option not available with size 222) | F03 |
| EOC transmitter 125 °C, fuse 160 °C, seal set Perbunan (option not available with size 222) | F04 |
| Explosion protection in conformity to 94/9EG ATEX100A, seal set Viton | F06 |
| Fuse 110 °C, seal set Viton | F05 |
| Fuse 140 °C, seal set Viton | F07 |
| Fuse 160 °C, seal set Viton | F08 |
| Thermal switch 110 °C, fuse 140 °C, seal set Viton (option not available with size 222) | F10 |
| Thermal switch 140 °C, fuse 160 °C, seal set Viton (option not available with size 222) | F11 |
| EOC transmitter 125 °C, fuse 160 °C, seal set Viton (option not available with size 222) | F12 |
| Accessories for thermal monitoring equipment | |
| With switchgear | F25 |
| With sensor and evaluation instrument | F26 |
| For preservation, see catalog section 3 | |
| Drive | |
| Standard drive side | Without addition – standard |
| FA series with housing drive | F23 |
| FG/FV/FN series with impeller drive | F24 |
| Position | |
| Horizontal version | Without addition – standard |
| Vertical version, motor overhead (option not permitted in FV and FN series) | F13 |
| Vertical version, motor underneath | F14 |

FLENDER Standard Couplings

Fluid Couplings – FLUDEX Series

Special types

| | |
|--|--|
| Special types | Additional ordering data -Z with order code and, if necessary with plain text specification |
| Shaft and bore | |
| Shaft insertion depth to DIN 748/1 | Without addition – standard |
| Shaft insertion depth 1 deviating from DIN 748/1 | Y28 and plain text specification for L1 |
| Shaft insertion depth 2 deviating from DIN 748/1 | Y29 and plain text specification for L2 |
| Bore tolerance ISO H7 | Without addition – standard ¹⁾ |
| Bore tolerance ISO K7 for hollow shafts with imperial bores | L13/M13 ¹⁾ |
| Bore tolerance ISO M7 for hub parts with imperial bores | L14/M14 ¹⁾ |
| Keyway to DIN 6885/1 or DIN 6885/3 keyway width JS9 | Without addition – standard |
| Keyway to ASME B17.1, if necessary with reduced keyway depth | L43/M43 ¹⁾ |
| 2 parallel keyways set 180° apart | L46/M46 ¹⁾ |
| Half parallel key balancing (before keyseating) | Without addition – standard |
| Full parallel key balancing (after keyseating) | L52/M52 ¹⁾ |
| Internal add-on parts | |
| No additional internal add-on parts | Without addition – standard |
| With baffle plate (only for FA series) | F17 |
| For documentation, test certificates and acceptances, see catalog section 3 ²⁾ | |
| No test certificate, acceptance certificates | Without addition – standard |
| Other additions | |
| Micro-balancing, high speed | W03 |
| With special fixed bearings | F20 ³⁾ |
| With additional dust seal | F21 ³⁾ |
| Special data | Y99 and plain text specification |

- This order code designates only the type price – plain text required additionally.

¹⁾ Order code "L.." for hollow shaft side and "M.." for opposite side.

²⁾ Surface crack and ultrasound testing are not possible on FLUDEX couplings.

³⁾ Fitting length on request.

