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Quality products for Mechanical
& Fluid Power

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21

FLUDEX® FLUID COUPLINGS

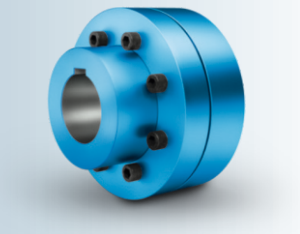
jbj
TECHNIQUES
LIMITED

Flender Mechanical Power Transmission Couplings available from jbj Techniques

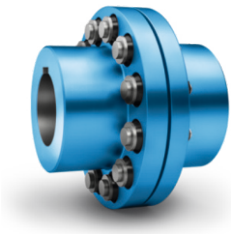
FLENDER

N-EUPEX®, RUPEX® and N-BIPEX®
Flexible Couplings

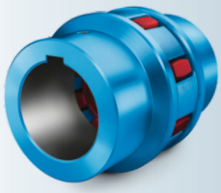
Flexible Flender couplings have a wide range of possible applications. A broad standard modular system as well as specially designed application specific couplings are available.



N-EUPEX
cam couplings
Rated torque: 19 Nm … 85,000 Nm



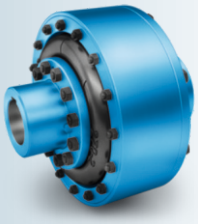
RUPEX
pin-and-bush couplings
Rated torque: 200 Nm … 1,300,000 Nm



N-BIPEX
cam couplings
Rated torque: 12 Nm … 1,300 Nm

ELPEX®, ELPEX-B® and ELPEX-S®
Highly Flexible Couplings

ELPEX® couplings are free of circumferential back-lash. Their damping capacity and low torsional stiffness make them especially well-suited for coupling machines with widely variable torque characteristics or large shaft misalignment.



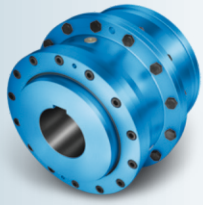
ELPEX
elastic ring couplings
Rated torque: 1,600 Nm … 90,000 Nm

ELPEX-B
elastic tire couplings
Rated torque: 24 Nm … 14,500 Nm

ELPEX-S
rubber disk couplings
Rated torque: 330 Nm … 63,000 Nm

ZAPEX® gear couplings and ARPEX® all-steel couplings
Torsionally Rigid Couplings

For transmission of high torques, we offer both ARPEX all-steel disc couplings and ZAPEX gear couplings in a range of versions. The applications vary according to specific requirements, with respect to shaft misalignment, temperature and torque.



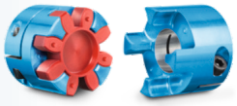
ZAPEX
gear couplings
Rated torque: 1,300 Nm … 7,200,000 Nm

ARPEX
high performance disc couplings
Rated torque: 1,000 Nm … 80,000 Nm

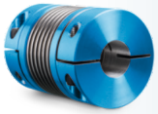
N-ARPEX and ARPEX
all-steel disc couplings
Rated torque: 92 Nm … 2,000,000 Nm

BIPEX-S® and SIPEX®
Backlash-Free Couplings

The vibration-damping, electrically insulating plug-in BIPEX-S elastomer couplings and SIPEX metal bellows couplings deliver especially accurate component positioning.



BIPEX-S and SIPEX
Rated torque: 0.1 Nm … 5,000 Nm



Flender Mechanical Power Transmission Couplings available from jbj Techniques

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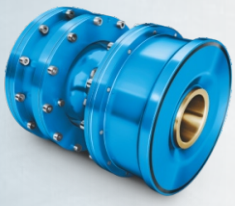
FLUDEX® couplings are hydrodynamic fluid couplings which operate on the Fottinger principle.

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

#FLUDEX

Railway Couplings

Couplings for rail vehicles developed, tested and produced for reliability and safety.



ZBG series *read info . . .*

LBK series *read info . . .*

GKG series *read info . . .*

MBG series *read info . . .*

MBG-ISO series *read info . . .*

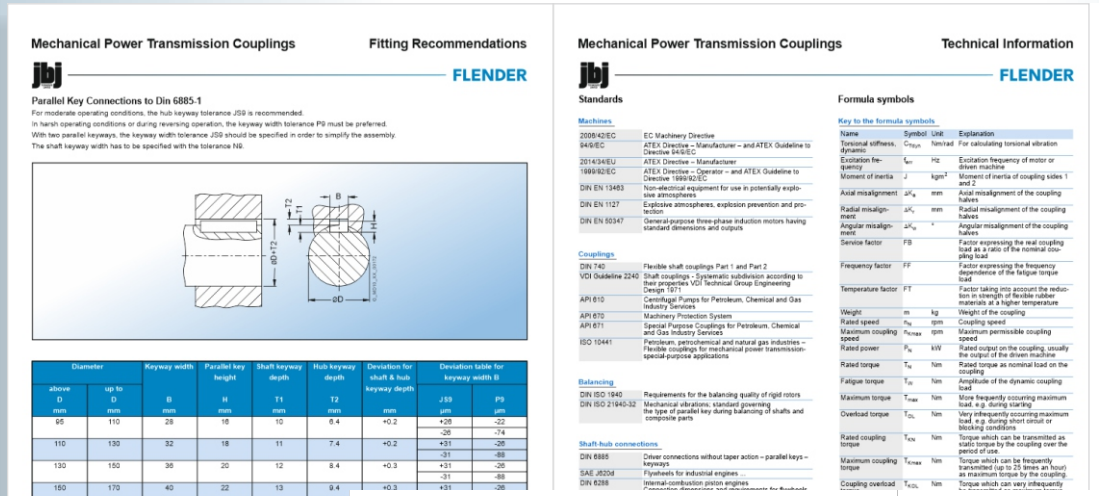
ARS series *read info . . .*

Couplings designed for partially and fully suspended drives which can be mounted between motor and gear unit or gear unit and wheel-set shaft. Designed and tested to withstand the high forces created by axle loads of up to 32 t, motor speeds of over 6,000 rpm and driving speeds of more than 400 km/h. All models tested under extreme conditions to guarantee maximum reliability. A broad range of products in all necessary sizes and designs as standard.

FLENDER Railway Couplings offer:

- High quality.
- 100% component traceability.
- Great depth within an extensive product range.
- Component compatibility with Flender gear units for rail vehicles.
- Low maintenance costs and a high level of serviceability.

#railway-couplings



Mechanical Power Transmission Couplings — Fitting Recommendations

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Parallel Key Connections to Din 6885-1

For moderate operating conditions, the hub keyway tolerance JS9 is recommended.
In harsh operating conditions or during reversing operation, the keyway width tolerance P9 must be preferred.
With two parallel keyways, the keyway width tolerance JS9 should be specified in order to simplify the assembly.
The shaft keyway width has to be specified with the tolerance N9.

Diameter above d mm	Diameter up to d mm	Keyway width B mm	Parallel key height H mm	Shaft keyway depth T1 mm	Hub keyway depth T2 mm	Deviation for shaft & hub keyway depth mm	Deviation table for keyway width B JS9 µm	Deviation table for keyway width B P9 µm
95	110	28	16	10	6.4	+0.2	+26	-22
							-26	-74
110	130	32	18	11	7.4	+0.2	+31	-26
							-31	-88
130	150	36	20	12	8.4	+0.3	+31	-26
							-31	-88
150	170	40	22	13	9.4	+0.3	+31	-26
							-31	-88
170	200	45	25	15	10.4	+0.3	+37	-32
							-37	-106
200	230	50	28	17	11.4	+0.3	+37	-32
							-37	-106
230	260	56	32	20	12.4	+0.3	+37	-32
							-37	-106
260	290	63	32	20	12.4	+0.3	+37	-32
							-37	-106
290	330	70	36	22	14.4	+0.3	+43	-37
							-43	-124
330	380	80	40	25	15.4	+0.3	+43	-37
							-43	-124
380	440	90	45	28	17.4	+0.3	+43	-37
							-43	-124
440	500	100	50	31	19.4	+0.3	+43	-37
							-43	-124

#DriveLineHarmony 14

Mechanical Power Transmission Couplings — Technical Information

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Standards

Machines

2006/42/EC	EC Machinery Directive
94/9/EC	ATEX Directive – Manufacturer – and ATEX Guideline to Directive 94/9/EC
2014/34/EU	ATEX Directive – Manufacturer
1999/92/EC	ATEX Directive – Operator – and ATEX Guideline to Directive 1999/92/EC
DIN EN 13463	Non-electrical equipment for use in potentially explosive atmospheres
DIN EN 1127	Explosive atmospheres, explosion prevention and protection
DIN EN 50347	General-purpose three-phase induction motors having standard dimensions and outputs

Couplings

DIN 740	Flexible shaft couplings Part 1 and Part 2
VDI Guideline 2240	Shaft couplings - Systematic subdivision according to their properties VDI Technical Group Engineering Design 1971
API 610	Centrifugal Pumps for Petroleum, Chemical and Gas Industry Services
API 670	Machinery Protection Systems
API 671	Special Purpose Couplings for Petroleum, Chemical and Gas Industry Services
ISO 10441	Petroleum, petrochemical and natural gas industries – Flexible couplings for mechanical power transmission-special-purpose applications

Balancing

DIN ISO 1940	Requirements for the balancing quality of rigid rotors
DIN ISO 21940-32	Mechanical vibrations; standard governing the type of parallel key during balancing of shafts and composite parts

Shaft-hub connections

DIN 6885	Driver connections without taper action – parallel keys – keyways
SAE J620d	Flywheels for industrial engines
DIN 6288	Internal-combustion piston engines

Formula symbols

Key to the formula symbols

Name	Symbol	Unit	Explanation
Torsional stiffness, dynamic	C_{dyn}	Nm/rad	For calculating torsional vibration
Excitation frequency	f_{err}	Hz	Excitation frequency of motor or driven machine
Moment of inertia	J	kgm²	Moment of inertia of coupling sides 1 and 2
Axial misalignment	ΔK_a	mm	Axial misalignment of the coupling halves
Radial misalignment	ΔK_r	mm	Radial misalignment of the coupling halves
Angular misalignment	ΔK_w	°	Angular misalignment of the coupling halves
Service factor	FB		Factor expressing the real coupling load as a ratio of the nominal coupling load
Frequency factor	FF		Factor expressing the frequency dependence of the fatigue torque load
Temperature factor	FT		Factor taking into account the reduction in strength of flexible rubber materials at a higher temperature
Weight	m	kg	Weight of the coupling
Rated speed	n_N	rpm	Coupling speed
Maximum coupling speed	n_{Kmax}	rpm	Maximum permissible coupling speed
Rated power	P_N	kW	Rated output on the coupling, usually the output of the driven machine
Rated torque	T_N	Nm	Rated torque as nominal load on the coupling
Fatigue torque	T_W	Nm	Amplitude of the dynamic coupling load
Maximum torque	T_{max}	Nm	More frequently occurring maximum load, e.g. during starting
Overload torque	T_{OL}	Nm	Very infrequently occurring maximum load, e.g. during short circuit or blocking conditions
Rated coupling torque	T_{KN}	Nm	Torque which can be transmitted as static torque by the coupling over the period of use.
Maximum coupling torque	T_{Kmax}	Nm	Torque which can be frequently transmitted (up to 25 times an hour) as maximum torque by the coupling.
Coupling overload torque	T_{KOL}	Nm	Torque which can very infrequently be transmitted as maximum torque by the coupling.

Mechanical Power Transmission Couplings — Technical Information

FLENDER

Key to symbols

Name	Symbols	Unit	Explanation
Torsional stiffness, dynamic	CTdyn	Nm/rad	For calculating torsional vibration.
Excitation frequency	ferr	Hz	Excitation frequency of motor or driven machine.
Moment of inertia	J	kgm2	Moment of inertia of coupling sides 1 and 2.
Axial misalignment	ΔKa	mm	Axial misalignment of the coupling halves.
Radial misalignment	ΔKr	mm	Radial misalignment of the coupling halves.
Angular misalignment	ΔKw	°	Angular misalignment of the coupling halves.
Service factor	FB		Factor expressing the real coupling load as a ratio of the nominal coupling load.
Frequency factor	FF		Factor expressing the frequency dependence of the fatigue torque load.
Temperature factor	FT		Factor taking into account the reduction in strength of flexible rubber materials at a higher temperature.
Weight	m	kg	Weight of the coupling.
Rated speed	nN	rpm	Coupling speed.
Maximum coupling speed	nKmax	rpm	Maximum permissible coupling speed.
Rated power	PN	kW	Rated output on the coupling, usually the output of the driven machine.
Rated torque	TN	Nm	Rated torque as nominal load on the coupling.
Fatigue torque	TW	Nm	Amplitude of the dynamic coupling load.
Maximum torque	Tmax	Nm	More frequently occurring maximum load, e.g. during starting.
Overload torque	TOL	Nm	Very infrequently occurring maximum load, e.g. during short circuit or blocking conditions.
Rated coupling torque	TKN	Nm	Torque which can be transmitted as static torque by the coupling over the period of use.
Maximum coupling torque	TKmax	Nm	Torque which can be frequently transmitted (up to 25 times an hour) as maximum torque by the coupling.
Coupling overload torque	TKOL	Nm	Torque which can very infrequently be transmitted as maximum torque by the coupling.
Fatigue coupling torque	TKW	Nm	Torque amplitude which can be transmitted by the coupling as dynamic torque at a frequency of 10 Hz over the period of use.
Resonance factor	VR		Factor specifying the torque increase at resonance.
Temperature	Ta	°C	Ambient temperature of the coupling in operation.
Damping coefficient	Ψ	psi	Damping parameter.

Selection of the Coupling Series

The coupling series is frequently determined by the driven machine and the design of the drive train. Common selection criteria are listed below and assigned to coupling properties, which are used to select the coupling series. Additionally, the price of the coupling and availability are important criteria for determining the coupling series to be used.
The FLUDEX series operates positively and transmits the torque with the aid of a flowing oil or water filling.
FLUDEX couplings are used to reduce starting and/or overload torques. During starting, the motor may, for example, run up within a very short time; because of the FLUDEX coupling, the drive train with the driven machine may accelerate after a delay and without increased torque load.
The FLUDEX coupling cannot compensate for shaft misalignment and is therefore designed in combination with a displacement coupling, a cardan shaft or a belt drive. The displacement coupling may be selected in accordance with the criteria described below.

Coupling Type	Torque Range Rated Coupling Torque T_{KN}	Speed Range Peripheral Speed $v_{max} = DA * n_{max} / 19100$	Torsionally Rigid	Torsionally Flexible	Highly Flexible	Operating Temperature Range
ZAPEX	850 ... 7200000 Nm	60 m/s	■	–	–	-20 ... +80 °C
N-ARPEX	350 ... 2000000 Nm	110 m/s	■	–	–	-50 ... +280 °C
ARPEX	92 ... 2000000 Nm	100 m/s	■	–	–	-40 ... +280 °C
N-EUPEX	19 ... 62000 Nm	38 m/s	–	■	–	-50 ... +100 °C

Mechanical Power Transmission Couplings — Technical Information

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Typical coupling solutions for different example applications

The specified application factors are recommendations; regulations, rules and practical experience take priority as assessment criteria.
No application factor need be taken into account with FLUDEX couplings.
In the case of highly flexible couplings of the ELPEX, ELPEX-S and ELPEX-B series, deviating application factors are stated in the product descriptions.
FLUDEX couplings are mostly mounted on the high-speed gear shaft.

Example applications	Application factor FB
Electric motor without gear unit	
Centrifugal pumps	1.0
Piston pumps	1.5
Vacuum pumps	1.5
Fans with TN less than 75 Nm	1.5
Fans with TN from 75 to 750 Nm	1.75
Fans with TN larger than 750 Nm	1.75
Blowers	1.5
Frequency converters / generators	1.25
Reciprocating compressors	1.75
Screw-type compressors	1.5
Internal-combustion engine without gear unit	
Generators	1.75
Pumps	1.5
Fans	1.75
Hydraulic pumps, excavators, construction machines	1.5
Compressors, screw-type compressors	1.5
Agricultural machinery	1.75
Other	
Turbine gear units	1.5
Hydraulic motor - gear unit	1.25
Electric motor with gear unit	
Chemical industry	
Extruders	1.5
Pumps - centrifugal pumps	1.0
Pumps - piston pumps	1.75
Pumps - plunger pumps	1.5
Reciprocating compressors	1.75
Calenders	1.5
Kneaders	1.75
Cooling drums	1.25
Mixers	1.25
Stirrers	1.25
Toasters	1.25
Drying drums	1.25
Centrifuges	1.25
Crushers	1.5
Power generation and conversion	
Compressed air, reciprocating compressors	1.25
Compressed air, screw-type compressors	1.25
Air - Blowers	1.5
Air - Cooling tower fans	1.5
Air - Turbine blowers	1.5
Generators, converters	1.25
Welding generators	1.25
Metal production, iron and steel works	
Plate tilters	1.5
Ingot pushers	1.75
Slabbing mill	1.75
Coiling machines	1.5
Roller straightening machines	1.5
Roller tables	1.75
Shears	1.75
Rollers	1.75
Metal working machines	
Plate bending machines	1.5
Plate straightening machines	1.5
Hammers	1.75
Planing machines	1.75
Presses, forging presses	1.75
Shears	1.5
Grinding machines	1.25
Punches	1.5
Machine tools: Main drives	1.5
Machine tools: Auxiliary drives	1.25
Food industry	
Filling machines	1.25
Kneading machines	1.5
Mashers	1.5
Sugar cane production	1.5
Production machines	
Construction machines, hydraulic pumps	1.25
Construction machines, traversing gears	1.5
Construction machines, suction pumps	1.5
Construction machines, concrete mixers	1.5
Printing machines	1.25
Woodworking - reciprocating saws	1.5
Grinding machines	1.5
Textile machines - winders	1.5
Textile machines - printing machines	1.5
Textile machines - tanning vats	1.5
Textile machines - shredders	1.5
Textile machines - looms	1.5
Packaging machines	1.5
Brick moulding machines	1.75
Transport and logistics	
Passenger transport - elevators	1.5
Passenger transport - escalators	1.5
Conveyor systems - bucket elevators	1.5
Conveyor systems - hauling winches	1.5
Conveyor systems - belt conveyors	1.5
Conveyor systems - endless-chain conveyors	1.5
Conveyor systems - circular conveyors	1.5
Conveyor systems - screw conveyors	1.5
Conveyor systems - inclined hoists	1.5
Crane traversing gear	1.5
Hoisting gear	1.5
Crane lifting gear	2.0
Crane traveling gear	1.5
Crane slewing gear	1.5
Crane fly jib hoists	1.5
Cable railways	1.5
Drag lifts	1.5
Winches	1.5
Cellulose and paper	
Paper-making machines, all	1.5
Pulper drives	1.5
Cement industry	
Crushers	1.75
Rotary furnaces	1.5
Hammer mills	1.75
Ball mills	1.75
Pug mills	1.75
Mixers	1.5
Pipe mills	1.5
Beater mills	1.75
Separators	1.5
Tyer presses	1.75

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See the FLENDER COUPLINGS INTRODUCTION for:

- Shaft coupling types.
- Shaft misalignment.
- Balancing.
- Shaft hub connections.
- Key to symbols & selection of coupling series.
- Typical coupling solutions for different applications.
- Selection of coupling size.
- Checking shaft hub connection & environmental conditions.
- Fitting recommendations including DIN ISO 286 details.
- Cylindrical shaft ends, extract from DIN 748 Part 1 (long) & central holes according to DIN 332 Part 2.
- Parallel Key Connections to Din 6885-1.

#couplings-technical-info

FLENDER

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Flender
9,544 followers
1w •

https://lnkd.in/eArCCRi

New distribution partnership in the UK: We have now partnered with **jbj Techniques Limited** as the official partner for our whole couplings range in the United Kingdom and kicked off our cooperation by a digital signing of the partnership contract. JBJ has a wealth of experience in established and niche applications, such examples are: Mechanical drives for subsea wave energy, steel works crucible handling equipment or marine winch drives. We are happy to have them on our side for our UK coupling customers, especially for the supply of the recently optimized N-EUPEX!

Get to know the industry benchmark in couplings and reach out to **Mat Jackson**, Product Manager Couplings at Flender UK, and **Mike Davis**, Managing Director at JBJ for further queries.

Learn more about our couplings range here: **https://lnkd.in/dAir-av**

#flender #couplings #neupex #newpartnership #cooperation #WeMoveTheWorld

FLENDER

Coupling suitable for use in potentially explosive atmospheres.
Complies with the current ATEX Directive for:

CE II 2G Ex h IIB T3 Gb X

II 2D Ex h IIIC T160°C Db X

I M2 Ex h Mb X

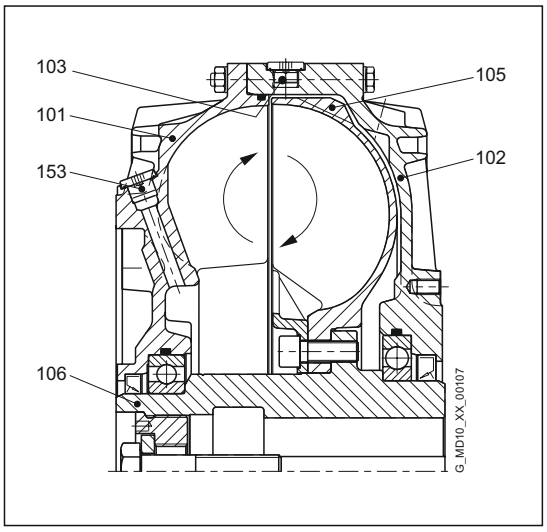
FLUDEX couplings marked with Ex are constructed with fusible safety plugs 110°C.

Benefits

FLUDEX® couplings are hydrodynamic fluid couplings which operate on the Fottinger principle. The coupling parts on the input and output sides are not mechanically connected to each other. Output is transmitted via the oil filling which rotates in the coupling and is conducted over radially arranged blades.
FLUDEX® couplings limit starting and maximum torque in the drive train and, through the property of rotational slip, serve as an aid to starting the motor, as overload protection in the event of fault and for isolating torsional vibration.
When large masses are started up, the drive train is accelerated only at the torque determined by the coupling characteristic. The starting operation is spread over time, the driven machine started softly and smoothly.
In the case of special operating conditions, such as overload or blocking of the driven machine, the FLUDEX® coupling limits the maximum torque load and prevents the inert effect of the rotating motor mass on the drive train.
The coupling then acts as a load-holding safety clutch until the drive is shut off by the motor control or coupling monitoring system.
The FLUDEX® coupling further acts as a means of decoupling during torsional vibration excitation.
Torsional vibration excitation with a frequency of > 5 Hz. is virtually absorbed by the coupling.
To compensate for shaft misalignment, the FLUDEX® coupling is combined with a displacement coupling e.g. of the N-EUPEX® type.
All FLUDEX® couplings are designed with radial unset blades and are therefore suitable for rotation in both directions and reversing operation. They can be fitted horizontally, at an angle or vertically. In the case of FLUDEX® couplings with a delay chamber it must be ensured, when fitting at an angle or vertically, that the delay chamber is below the working chamber.

Application

FLUDEX® couplings are used in drives for conveyor systems such as belt conveyors, bucket elevators and chain conveyors. In heavy industry FLUDEX® couplings are used for applications such as blade wheel drives, crushers, roller presses, mixers, large ventilators, boiler feed pumps, large compressors, centrifuges and auxiliary drives for mills.
Further applications are, for example, pump drives, PTO generator drives, wind power systems and door and gate drives.
In drives with diesel engines, FLUDEX® couplings are used on driven machines with a high mass moment of inertia.



Design and configurations

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

Materials

- Blade wheel and housing: Cast aluminum AlSi10Mg or AlSi9Mg.
- Shaft and hollow shaft: Steel with a yield point higher than 400 N/mm^2.
- Static seals and radial shaft seals: Perbunan NBR or Viton FPM.
- Add-on parts: Grey cast iron EN-GJL-250, spheroidal graphite cast iron EN-GJS-400 or steel.

Fusible safety plugs

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

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

Thermal switching equipment

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

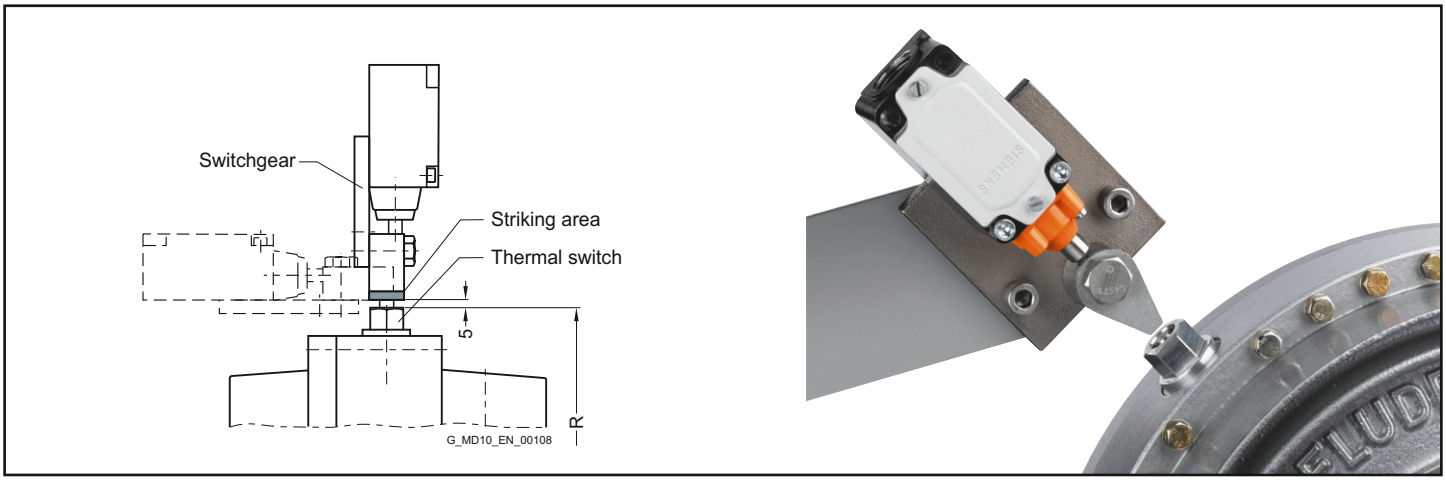
The thermal switching equipment does not work if a machine side is blocked and the coupling housing is connected to this side. If the coupling is stationary, the switching pin cannot actuate the switching equipment.

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

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

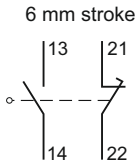
If the set temperature is exceeded, the switching pin is released from the fusible element, emerges 10 mm from the housing and actuates the switchgear while the coupling is rotating. The switchgear can cut out the drive motor and/or trigger an optical or acoustic alarm signal. The housing of the coupling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

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



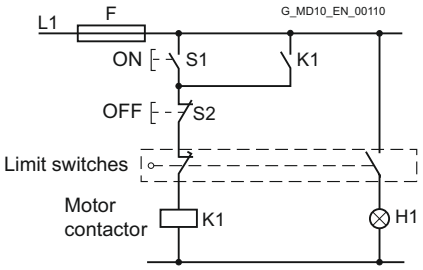
Coupling Size	297	342	370	395	425	450	490	516	565	590	655	755	887
Perm. speed in rpm	2500	2240	2100	2000	1900	1800	1650	1600	1500	1450	1250	1100	1000
Radius of travel R in mm	188	215	226	239	251	271	292	307	330	346	383	435	507

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

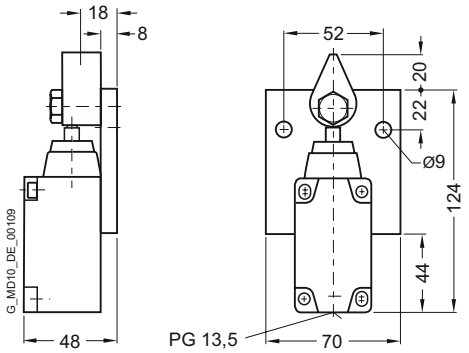


Code number 11
DIN EN 50013

Snap-action switching contact



Wiring proposition



Switchgear: FFA:000000652020

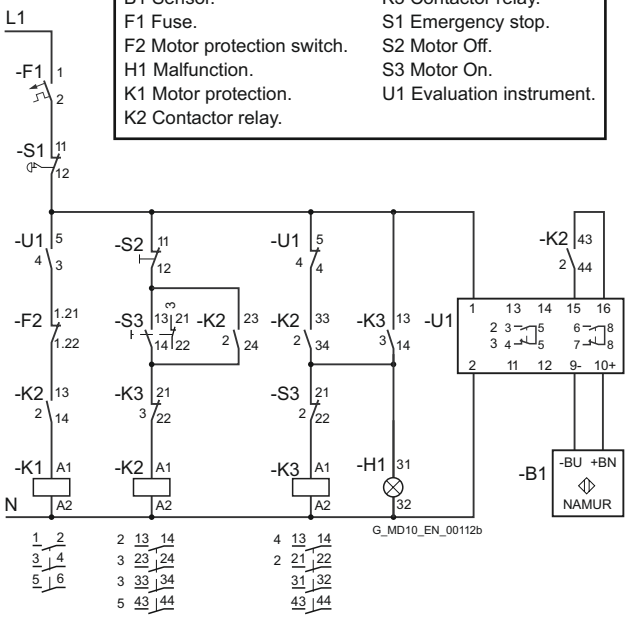
EOC System

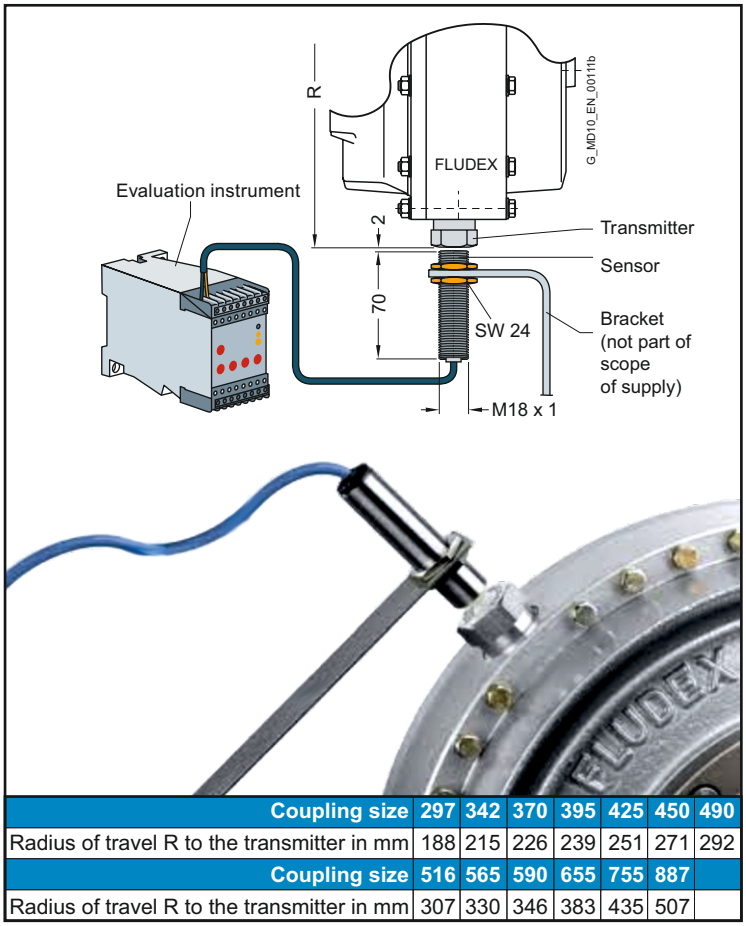
On the EOC system the temperature-dependent magnitude of the magnetic field of the EOC transmitter is measured and used for a switching pulse. The transmitter signal is transmitted via the fixed sensor to the evaluation instrument and there compared with the set value. If the signal does not exceed the minimum value or no signal is received, the relay of the evaluation instrument switches over. This can cause a malfunction message to be sent and the motor cut out. The coupling housing remains closed. The fusible safety plug with a higher response temperature remains in the coupling for additional safety. The response temperature of the EOC system is 125°C.

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

Wiring Diagram

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



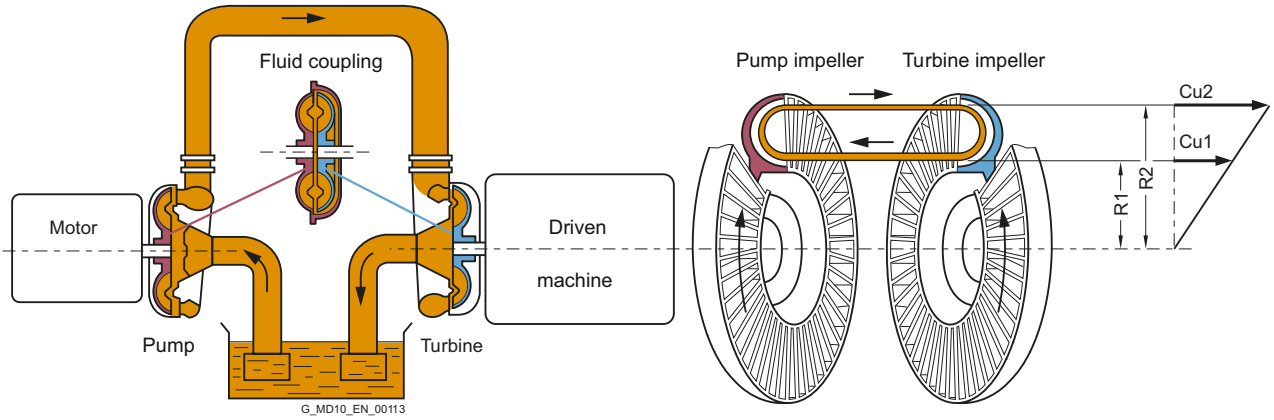


Coupling size	297	342	370	395	425	450	490
Radius of travel R to the transmitter in mm	188	215	226	239	251	271	292
Coupling size	**516**	**565**	**590**	**655**	**755**	**887**	
Radius of travel R to the transmitter in mm	307	330	346	383	435	507	

FLENDER

Function

Föttinger principle



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

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

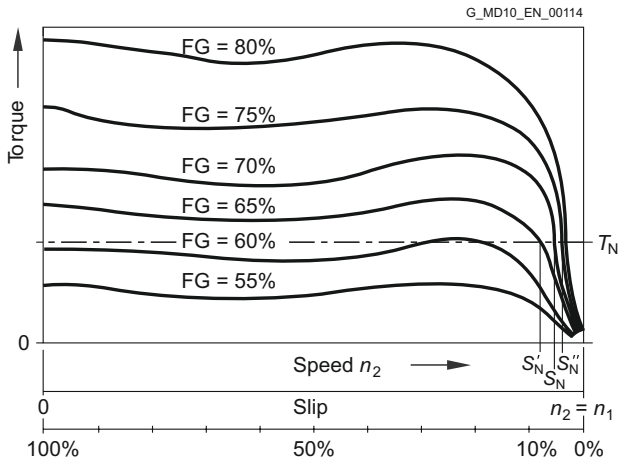
To generate the operating fluid circulation necessary for torque transmission, a difference in speed is necessary between the pump and turbine impellers. A centrifugal force pressure field is set up that is greater in the faster rotating pump impeller than in the turbine impeller.
The difference in speed,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

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

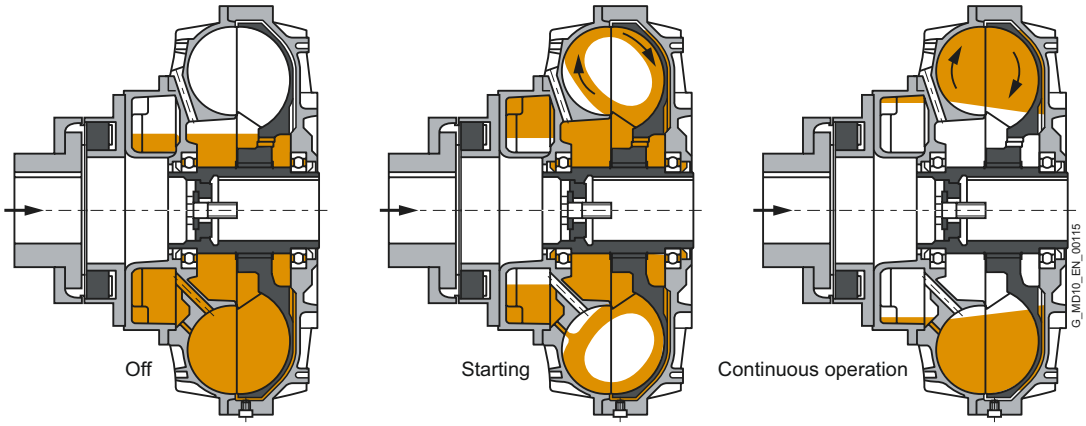
Depending on the FLUDEX coupling series, drive is via the inner rotor (shaft/hollow shaft with rigidly connected blade wheel) or via the bladed housing impeller (blade wheel housing). The driving impeller is the pump impeller, and the driven impeller is the turbine impeller.

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

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.



Slip-torque characteristics for different filling levels FG



Operation of the delay chamber

Starting torque can be reduced without increasing continuous operating slip by using a type of coupling with a delay chamber. On these couplings part of the oil filling is initially stored inactively in the delay chamber. The starting torque is considerably reduced because of the thus reduced starting filling in the working chamber of the coupling. The filling in the delay chamber runs very slowly, mostly only at the finish of the starting operation, from the delay chamber into the working chamber, causing the active filling in it to rise gradually and the continuous operating slip to reach a value corresponding to the whole filling.

Technical Specifications

Balancing FLUDEX couplings
In deviation from the balancing specifications in Chapter E, all FLUDEX couplings complying with DIN ISO 21940 are balanced to balancing quality G6.3 for 1800 rpm. For operating speeds higher than 1800 rpm micro-balancing, based on operating speed, can be requested.
Balancing is a two-level balancing with the specified oil quantity or a 75 % filling.
FLUDEX couplings are balanced in accordance with the half parallel key standard. Other balancing standards must be specified in the order.
Add-on couplings are subject to the standards as set out in Chapter E.

Oil filling
FLUDEX couplings can be delivered with or without oil filling.
» Delivery without oil filling.
» Delivery with oil filling.
» Delivery without oil filling but with oil filling quantity specification in litres.

Hollow shafts of the FA, FG and FV series
Variant of FLUDEX hollow shafts only with finished bore.

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

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

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

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

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

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

Operating conditions for FLUDEX couplings in potentially explosive atmospheres

The coupling with fusible safety plugs with identity marking ⟨Ex⟩ T3 is suitable for the operating conditions set out in the **ATEX Directive 2014/34/EU:** Equipment group II (above-ground applications) Temperature class T3 of categories 2 and 3 for environments where there are potentially explosive gas, vapours, 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.

Axial retention

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

Bore and keyway width tolerances are specified in:
https://www.jbj.co.uk/e-publications/Flender-mechanical-power-transmission-couplings-available-from-jbj-Techniques-Limited/11/index.html

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 catalogue 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

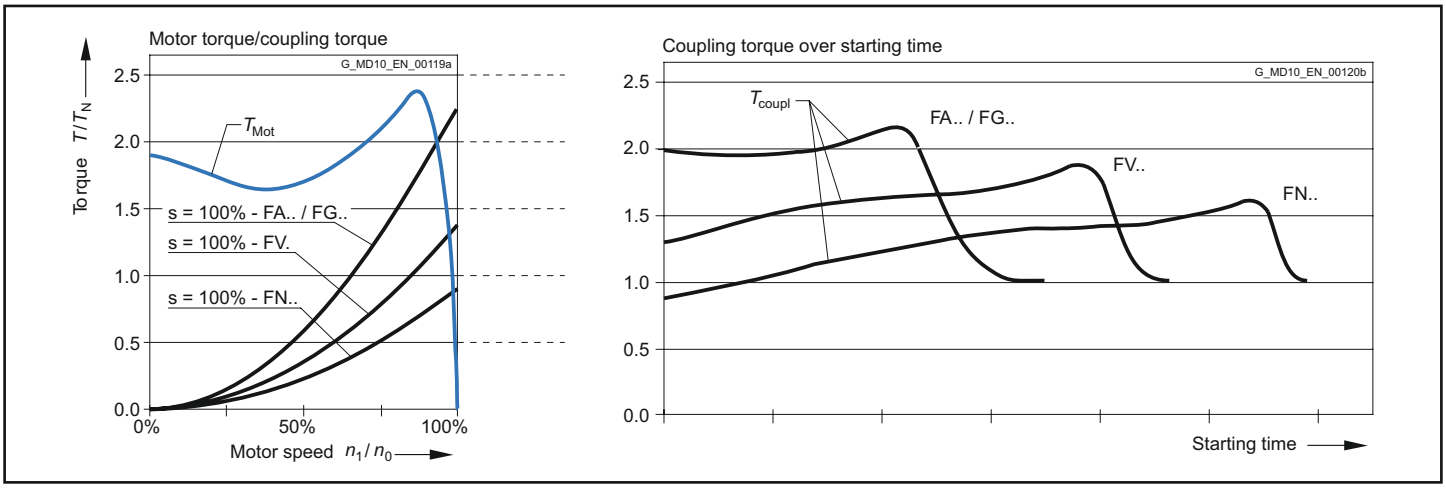
FLUDEX couplings, which are to be used solely as an aid to starting the motor under no special conditions, can be selected according to the assignment tables from page 14 (for n = 1500 min-1) or from page 18 (for n = 3000 min-1).

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

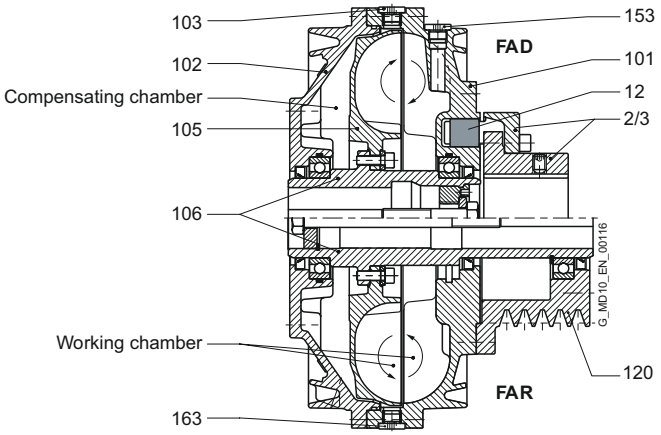
If special requirements, based on the operating method of the prime mover or driven machine, are made of the coupling or the coupling is to be used in extreme environmental conditions, please give specific details in the enquiry or order. The form “Technical specifications for the selection of type and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

Start-up characteristics during the starting process

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



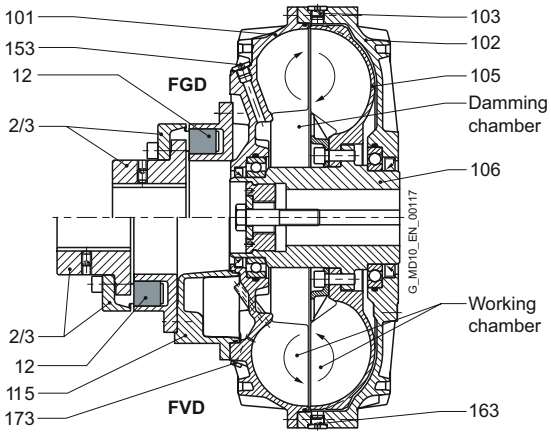
FA series – drive via the hollow shaft (impeller drive)



2/3 Part 2/3 of the flexible coupling
12 Flexible elements
101 Blade wheel (outer wheel)
102 Cover
103 Fusible safety plug
105 Blade wheel (inner wheel)
106 Hollow shaft
120 V-belt pulley
153 Filler plug
163 Screw plug (oil drain)

FLUDEX FA series couplings are basic couplings (without delay chamber) which are driven via the hollow shaft (106) with attached blade wheel (105). This enables the advantages of the compensating chamber and the working chamber to be used to best effect. Combinations with brake drums/disks and pulleys can also be easily achieved.
When the coupling is started, part of the oil filling in the area of greatest slip is forced into the radially inner chambers and the compensating chamber by the strong rotational flow. This causes the effective oil filling in the working chamber to be reduced and the desired torque limitation (approx. twice TN) to be achieved during starting. By means of additional fittings the coupling torque at the start of the starting operation can be limited to approx.1.5 times the rated value. During run-up to speed the compensating chamber again empties into the working chamber, and this helps to reduce slip.

FG and FV series – drive via the housing

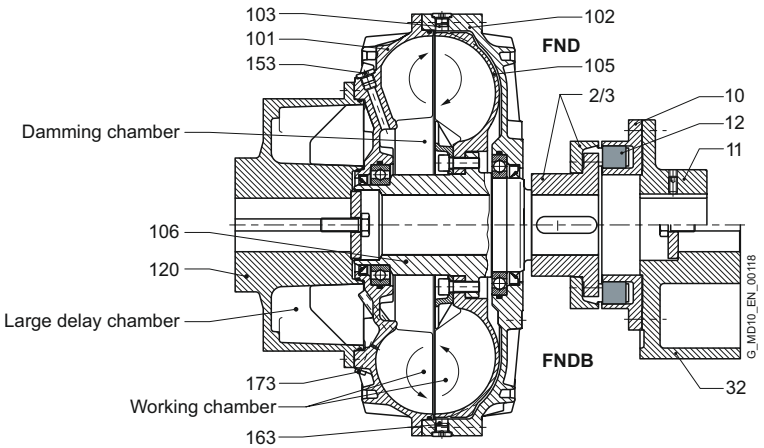


2/3 Part 2/3 of the flexible coupling
12 Flexible elements
101 Blade wheel (outer wheel)
102 Cover
103 Fusible safety plug
105 Blade wheel (inner wheel)
106 Hollow shaft
115 Delay chamber
153 Filler plug
163 Screw plug (oil drain)
173 Oil drain plug - delay chamber

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 TN) to be achieved during motor starting. In the FV series the delay chamber also receives part of the oil filling in accordance with the fluid level when the coupling is stationary. During starting the effective oil filling in the working chamber is reduced by the amount of fluid in the delay chamber, thus considerably reducing the starting torque (approx. 1.5 times TN).
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.

FLENDER

FN series – drive via the housing



2/3	Part 2/3 of the flexible coupling
10	Part 10 of the flexible coupling
12	Flexible elements
11	Part 11
32	Brake drum
101	Blade wheel (outer wheel)
102	Cover
103	Fusible safety plug
105	Blade wheel (inner wheel)
106	Shaft
120	Hub carrier (large delay chamber)
153	Filler plug
173	Oil locking screw - delay chamber
163	Screw plug (oil drain)

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 motor starting is approx. 1.3 times TN. A further advantage of types FNDB and FNDS is the favorable weight distribution.

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.

FLENDER

Selection of FLUDEX type

Listed in the catalog are FLUDEX couplings with pulley, brake drum, brake disk and flexible N-EUPEX coupling.
Further types, e.g. in combination with a torsionally rigid steel membrane coupling of the ARPEX series or a highly flexible coupling of the ELPEX or ELPEX-S series, are available.

Series	Description	Type	Add-on coupling	Characteristic feature
FA	• without delay chamber • impeller-driven • Starting torque: $T_{max} = 2{,}0 \cdot T_{eff}$ • Starting aid for standard motors and torsional vibration isolation	FAO	Without	• Basic coupling with connecting flange
		FAR	Without	• with attached pulley
		FAD	N-EUPEX D	• enables change of flexible elements without axial displacement of the machine
		FAE	N-EUPEX E	• enables larger bores on the output side
		FAM	N-EUPEXM	• enables a short fitting length
		FADB	N-EUPEXD	• with brake drum
		FADS SB	N-EUPEXD	• with brake disk for stopping brakes • enables change of flexible elements without axial displacement of the machine
		FADS HB	N-EUPEXD	• with brake disk for blocking brakes • enables change of flexible elements without axial displacement of the machine
FG	• without delay chamber • Housing-driven • Starting torque: $T_{max} = 2.0 \cdot T_{eff}$ • Starting aid for standard motors, for torsional vibration isolation and for overload limitation in the event of drive blockage.	FGO	Without	• Basic coupling with connecting flange
		FGD	N-EUPEXD	• enables change of flexible elements without axial displacement of the machine
		FGE	N-EUPEXE	• enables larger bores on the output side
		FGM	N-EUPEXM	• enables a short fitting length
FV	• with delay chamber • Housing-driven • Starting torque: $T_{max} = 1.5 \cdot T_{eff}$ • Starting aid for motors and soft-starting of conveyor equipment	FVO	Without	• Coupling with connecting flange
		FVD	N-EUPEXD	• enables change of flexible elements without axial displacement of the machine
		FVE	N-EUPEXE	• enables larger bores on the output side
		FVM	N-EUPEXM	• enables a short fitting length
FN	• with large delay chamber • Housing drive via hub carrier • Starting torque: $T_{max} = 1.3 \cdot T_{eff}$ • Starting aid for motors with very unfavorable characteristic and soft-starting of empty and full conveying equipment • favorable weight distribution on brake-drum variant	FNO	Without	• Coupling with connecting shaft
		FNA	N-EUPEXA	• enables a short fitting length • enables change of flexible elements without axial displacement of the machine
		FND	N-EUPEXD	• enables change of flexible elements without axial displacement of the machine • enables fitting and dismounting of the coupling without displacement of the coupled machine
		FNDB	N-EUPEXD	• with brake drum • enables change of flexible elements without axial displacement of the machine • enables fitting and dismounting of the coupling without displacement of the coupled machine
		FNDS SB	N-EUPEXD	• with brake disk for stopping brakes • enables change of flexible elements without axial displacement of the machine • enables fitting and dismounting of the coupling without displacement of the coupled machine
		FNDS HB	N-EUPEX D	• with brake disk for blocking brakes • enables change of flexible elements without axial displacement of the machine • enables fitting and dismounting of the coupling without displacement of the coupled machine

The maximum shaft misalignments permissible for an N-EUPEX add-on coupling are shown in catalogue https://www.jbj.co.uk/e-publications/N-Eupex-torsionally-flexible-couplings-available-from-jbj-Techniques-Limited/8/index.html
For greater shaft misalignments FLUDEX couplings can be combined with cardan shafts or other displacement couplings.
FLUDEX couplings designed specifically for operation with water/water emulsion are available for use in mining applications.

Selection of FLUDEX Size

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

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

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

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

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

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

1) D = Multi-pass version on request.

Mass moments of inertia

FA series									
FLUDEX size	Series FA J_I kgm²	Types FAO J_A kgm²	FAD J_A kgm²	FAE J_A kgm²	FAM J_A kgm²	FADB J_A kgm²	FADS SB J_A kgm²	FADS HB J_A kgm²	Oil filling Quantity Max. Litres
222	0.014	0.056	0.061	0.061	0.06	0.084	0.287	0.109	1.55
297	0.04	0.173	0.193	0.193	0.193	0.226	0.673	0.246	3.7
342	0.092	0.314	0.356	0.352	0.353	0.469	1.002	0.42	6.6
395	0.203	0.66	0.745	0.73	–	1.03	1.814	1.15	9.5
450	0.404	1.087	1.217	1.217	–	1.497	3.611	1.818	13.4
516	0.896	2.109	2.439	–	–	3.359	5.969	3.238	22.7
590	1.295	3.455	3.785	–	–	6.605	7.315	4.584	33

FAR series					
FLUDEX Size	J_I kgm²	J_A kgm²			Oil filling Quantity Max. Litres
222	0.014	2 · SPZ 100	3 · SPZ 160		1.55
		0.062	0.071		
297	0.107	5 · SPZ 150	4 · SPA 190	5 · SPA 224	3.7
		0.202	0.235	0.273	
342	0.095	5 · SPA 180			6.6
		0.386			
395	5 · SPB = 0.214	5 · SPB 224	7 · SPB 236	7 · SPB 280	9.5
	7 · SPB = 0.210	0.84	0.96	1.144	
450	0.426	78 · SPB 250			13.4
		1.467			
516	0.946	10 · SPB 315			22.7
		3.209			
590	1.375	12 · SPC 315			33
		4.955			

FG/FV series												
FLUDEX Size	Series FG J_I kgm²	FV J_I kgm²	Types FGO J_A kgm²	FVO J_A kgm²	FGD J_A kgm²	FVD J_A kgm²	FGE J_A kgm²	FVE J_A kgm²	FGM J_A kgm²	FVM J_A kgm²	Oil filling FG max. litres	Oil filling FV max. litres
370	0.191	0.191	0.519	0.551	0.571	0.603	0.571	0.603	0.571	0.603	7.2	8
425	0.342	0.342	0.819	0.876	0.989	1.046	0.974	1.031	0.963	1.02	11	12
490	0.723	0.723	1.992	2.11	2.312	2.43	2.272	2.39	2.264	2.382	17	18.5
565	1.269	1.269	3.216	3.441	3.696	3.921	3.636	3.861	3.616	3.841	25.5	28
655	2.567	2.567	7.287	7.757	8.687	9.157	–	–	–	–	40	44
755	4.856	4.856	12.575	13.291	14.775	15.491	–	–	–	–	59	65
887	11.817	11.817	26.832	28.212	30.102	31.482	–	–	–	–	98	107

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

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

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

FN series										
FLUDEX Size	Hub Carrier Part	Series FN J_A kgm²	Types FNO J_I kgm²	Types FNA J_I kgm²	Types FND J_I kgm²	Types FNDS SB J_I kgm²	Types FNDS HB J_I kgm²	Weights Y mm	Weights F_Y N	Oil Filling Quantity Max. Litres
370	Standard	0.657	0.237	0.281	0.32	1.18	0.386	197	685	8.2
	Long	0.647						227		
425	Standard	1.107	0.343	0.47	0.491	1.841	0.659	224	970	12.5
	Long	1.102						254		
490	Standard	2.48	0.737	0.954	0.999	3.009	1.285	235	1450	19
	Long	2.474						265		
565	Standard	4.175	1.364	1.715	1.835	5.075	2.081	278	2050	29
	Long	4.251						318		
655	Standard	9.319	2.567	3.587	3.777	6.777	4.701	330	3100	45
	Long	9.523						370		
755	Standard	15.616	4.91	6.878	7.198	12.078	9.689	352	4300	67
	Long	15.95						392		
887	Standard	33.662	11.832	15.132	16.632	24.03	20.428	406	7250	110
	Long	34.462						456		

FNDB series							
FLUDEX Size	Hub Carrier Part	Brake Drum ØDBT • BBT	J_I kgm²	J_I kgm²	Weights Y mm	Weights F_Y N	Oil Filling Quantity Max. Litres
370	Standard	Ø315 • 118	0.657	0.64	197	685	8.2
		Ø400 • 150		1.341			
	Long	Ø315 • 118	0.647	0.64	227		
		Ø400 • 150		1.341			
425	Standard	Ø315 • 118	1.107	0.811	224	970	12.5
		Ø400 • 150		1.492			
	Long	Ø315 • 118	1.102	0.811	254		
		Ø400 • 150		1.492			
490	Standard	Ø400 • 150	2.48	1.994	235	1450	19
		Ø500 • 190		4.009			
	Long	Ø400 • 150	2.474	1.994	265		
		Ø500 • 190		4.009			
565	Standard	Ø400 • 150	4.175	2.835	278	2050	29
		Ø500 • 190		4.775			
	Long	Ø400 • 150	4.251	2.835	318		
		Ø500 • 190		4.7752			
655	Standard	Ø500 • 190	9.319	6.677	330	3100	45
		Ø630 • 236		11.577			
	Long	Ø500 • 190	9.523	6.677	370		
		Ø630 • 236		11.577			
755	Standard	Ø630 • 236	15.616	15.178	352	4300	67
	Long		15.95		392		
887	Standard	Ø710 • 265	33.662	30.832	406	7250	110
	Long		34.462		456		

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

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

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

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

F_Y Effective weight in mass centre including maximum oil filling quantity.

FLENDER

Please complete as far as possible and send to jbj Techniques Limited technical office email: info@jbj.co.uk

1. Intended use of coupling

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

2. Data for prime mover

2.1 ☐ Electric motor ☐ Characteristic enclosed

Power rating P_1 = ... kW at speed n_1 = ... rpm

Starting: ☐ Direct ☐ Star delta ☐ Other: .....

Motor shaft: Ø ..... · Length ..... mm

2.2 ☐ Internal-combustion engine Number of cylinders:: .....

Planned operating range: max. power rating: ..... kW at ..... rpm

min. power rating: ..... kW at ..... rpm

☐ Attachment via shaft Ø ..... · Length ..... mm ☐ Attachment to flywheel SAE ....."

☐ Motor rigidly ☐ Motor flexibly installed on foundation/base frame

3. Data for driven machine

3.1 Type of driven machine: .....

3.2 Required power rating P_2: ..... kW at n_2 = ... rpm

3.3 Mass moment of inertia J = ... kgm² (based on n_2)

3.4 Operational cycle: ☐ uniform operation ☐ non uniform operation

3.4.1. Starting frequency min.: ☐ 1 x / day ☐ 1 x / week ☐ 1 x / month ☐ Continuous operation (min. 2 months without stopping)

Starting frequency max.: ☐ < 3 x in succession Number in succession: .....

☐ < 5 x / hour Number per hour: .....

3.4.2. Duty cycle per operational cycle: ☐ 60 - 100% ☐ ED = ... %

3.4.3. Dimensions of the gear unit/machine shaft on the coupling side Ø ..... · Length ..... mm

4. Ambient conditions

4.1 Place of installation: ☐ < 1000 m a.s.l. ☐ ..... m a.s.l.

☐ out of doors ☐ in narrow space ☐ other: .....

4.2 Temperature of the ambient air (cooling air): min. .....°C max. ..... °C

4.3 ☐ Fitting into guard ☐ bell housing

Holes: ☐ with large (well ventilated) ☐ with small (less well ventilated)

☐ without holes: ☐ with forced ventilation ☐ without forced ventilation

4.4 Environment: ☐ normally dusty ☐ extremely dusty ☐ abrasively dusty

☐ aggressive atmosphere: .....

4.5 Use in potentially explosive atmospheres

☐ in conformity with ATEX: II 2G Ex h IIB T3 Gb X / II 2D Ex h IIIC T160 °C Db X / I M2 Ex h Mb X

☐ other class: .....

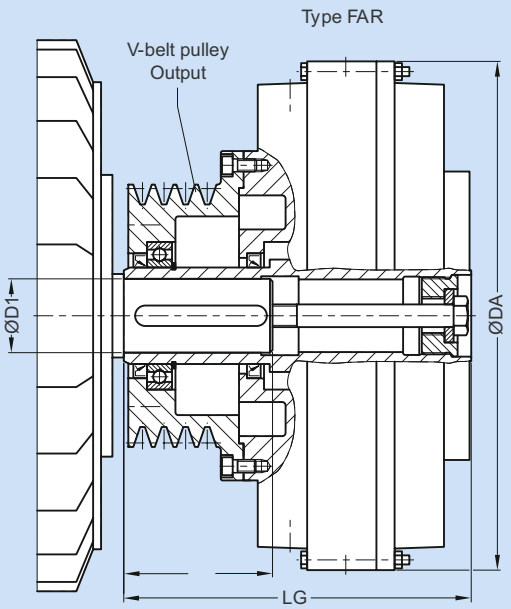
5. Arrangement of coupling

5.1 ☐ horizontal ☐ at an angle (max 20°) ☐ vertical: motor overhead ☐ vertical: motor underneath

5.2

between:	and:
Motor ☐	☐ Driven machine
Gear unit (n_1 = ... rpm) ☐	☐ Gear unit
Transmission/belt drives ☐	☐ Transmission/belt drives

Speed n = 1500 rpm,
Type FAR with fitted V-belt pulley.
This assignment offers safety in normal load cases and includes standard types with 140°C fusible safety plugs, for horizontal fitting and an ambient air temperature from -40°C to +40°C.



Three-phase motor			FLUDEX coupling				V-belt pulley			Product Code	Weight
Size	1500 min^{-1}		Size	Oil Filling	DA	LG	Profile, pitch Ø	Chamfer number	Recommended no. of belts		
	P_M kW	D1 · L1 mm		litres	mm	mm	mm				m kg
80 M	0.55	19 · 40	222	0.9	263	153	SPZ 100	2	1	2LC0900-0AF90-0AA0	12
	0.75			1							
90 S	1.1	24 · 50		1.1							
90 L	1.5			1.2							
100 L	2.2	28 · 60		1.4					2		
	3			1.5							
112 M	4			1.55			SPZ 160	3	2	2LC0900-0AF91-0AA0	14
132 S	5.5	38 · 80									
132 M	7.5	38 · 80	297	3.2	340	226	SPZ 150	5	3	2LC0900-1AF90-0AA0	27
160 M	11	42 · 110		3.5					4		
160 L	15	42 · 110		3.7					5		
180 M	18.5	48 · 110		3.7			SPA 190	4	4	2LC0900-1AF91-0AA0	32
180 L	22	48 · 110	342	5.5	400	278	SPA 180	5	5	2LC0900-2AF90-0AA0	40
200 L	30	55 · 110		6					5[2)]		
225 S	37	60 · 140	395	7.6	448	325	SPB 224		5	2LC0900-3AF90-0AA0	63
225 M	45	60 · 140		7.9					5		
250 M	55	65 · 140		8.4					5[2)]		
280 S	75	75 · 140	450	10.8	512	410	SPB 250	8	7	2LC0900-4AF90-0AA0	94
280 M	90	75 · 140		11.3					8		
315 S	110	80 · 170		12					8[2)]		
315 M	132	80 · 170	516	17.7	584	491	SPB 315	10	10	2LC0900-5AF90-0AA0	152
	160	80 · 170		18.6					10[2)]		

Configurable variants[1)]

» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

» The specified coupling weights are effective for maximum bores without oil filling.
» Delivery with oil filling only above -20°C.
» Axial retention is provided by a set screw and/or end washer with a retaining screw for shaft ends to DIN 748/1 long with a centring thread to DIN 332/2.
» For mass moments of inertia, centroidal distance Y and weight FY, see page 12 of this catalogue.

Ordering example

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

Ordering Code:

delivery without oil filling:
2LC0900-2AF90-0AA0-Z L1D

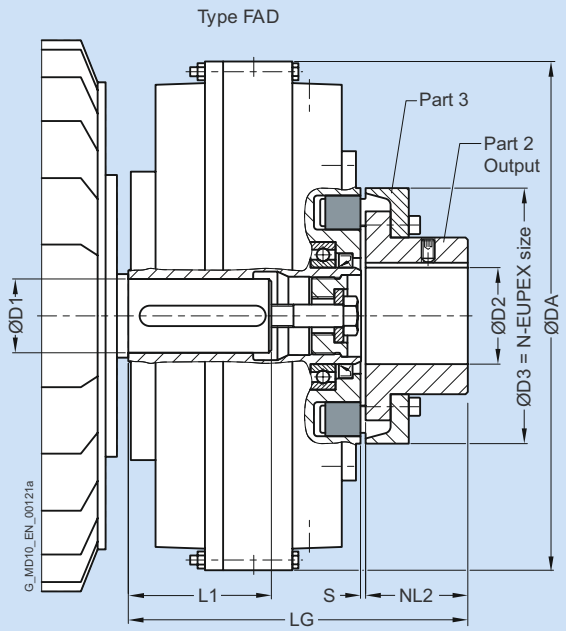
delivery with oil filling:
2LC0900-1AF90-0AA0-Z L1D+F16+Y90
Plain text to Y90: 6.0 l

delivery with specification of oil filling quantity:
2LC0900-1AF90-0AA0-Z L1D+Y90
Plain text to Y90: 6.0 l

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

[2)] Flank-open belts required.

Speed n = 1500 rpm,
Type FAD with N-EUPEX D add-on coupling
This assignment offers safety in normal load cases and includes standard types with 140°C fusible safety plugs, for horizontal fitting and an ambient air temperature from -40°C to +40°C.



Three-phase motor			FLUDEX coupling				N-EUPEX D add-on Coupling			Product Code	Weight
Size	1500 min^{-1}		Size	Oil Filling							
	P_M kW	D1 · L1 mm		litres	DA mm	LG mm	NL2 mm	D3 mm	D2[2] max. mm		m kg
80 M	0.55	19 · 40	222	0.9	263	180	40	110	38	2LC0900-0AA9	12
	0.75			1							
90 S	1.1	24 · 50		1.1							
90 L	1.5			1.2							
100 L	2.2	28 · 60		1.4							
	3			1.5							
112 M	4			1.55							
132 S	5.5	38 · 80									
132 M	7.5	38 · 80	297	3.2	340	233	50	125	45	2LC0900-1AA9	24
160 M	11	42 · 110		3.5							
160 L	15	42 · 110		3.7							
180 M	18.5	48 · 110		3.7							
180 L	22	48 · 110	342	5.5	400	271	55	140	50	2LC0900-2AA9	34
200 L	30	55 · 110		6							
225 S	37	60 · 140	395	7.6	448	299	90	225	85	2LC0900-3AA9	53
225 M	45	60 · 140		7.9							
250 M	55	65 · 140		8.4							
280 S	75	75 · 140	450	10.8	512	338	100	250	95	2LC0900-4AA9	70
280 M	90	75 · 140		11.3							
315 S	110	80 · 170		12							
315 M	132		516	17.7	584	398	125	315	120	2LC0900-5AA9	113
	160			18.6							

Configurable variants[1)]

» ØD2 Without finished bore.
With finished bore.
» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

» The specified coupling weights are effective for maximum bores without oil filling.
» Delivery with oil filling only above -20°C.
» Axial retention is provided by a set screw and/or end washer with a retaining screw for shaft ends to DIN 748/1 long with a centring thread to DIN 332/2.
» For mass moments of inertia, centroidal distance Y and weight FY, see page 12 of this catalogue.

Ordering example

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

Ordering Code:

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

delivery without oil filling:
2LC0900-3AA99-0AA0-Z L1F+M1A

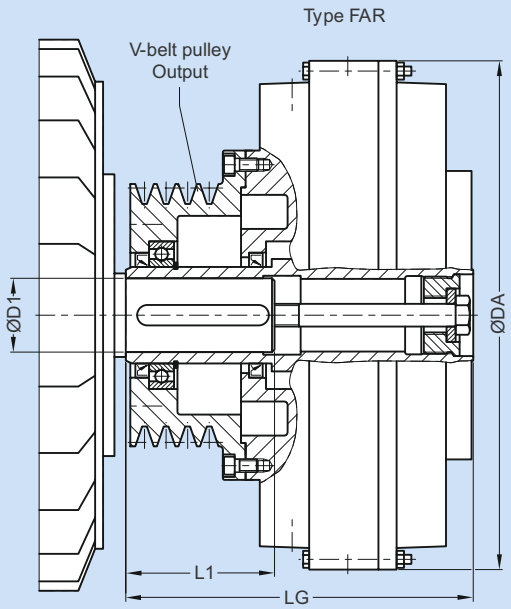
delivery with oil filling:
2LC0900-3AA99-0AA0-Z L1F+M1A+F16+Y90
Plain text to Y90: 8.4 l

delivery with specification of oil filling quantity:
2LC0900-3AA99-0AA0-Z L1F+M1A+Y90
Plain text to Y90: 8.4 l

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

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

Speed n = 3000 rpm,
Type FAR with fitted V-belt pully.
This assignment offers safety in normal load cases and includes standard types with 140°C fusible safety plugs, for horizontal fitting and an ambient air temperature from -40°C to +40°C.



Three-phase motor			FLUDEX coupling				V-belt pulley			Product Code	Weight
Size	1500 min^{-1}		Size	Oil Filling			Profile, pitch Ø	Chamfer number	Recommended no. of belts		
	P_M kW	D1 · L1 mm		litres	DA mm	LG mm	mm				m kg
90 S	1.5	24 · 50	222	0.7	263	153	SPZ 100	2	1	2LC0900-0AF90-0AA0	12
90 L	2.2			0.8							
100 L	3	28 · 60		0.9							
112 M	4			1					2		
132 S	5.5	38 · 80									
	7.5			1.1			SPZ 160	3		2LC0900-0AF91-0AA0	14
160 M	11	42[3] · 110		1.2							
	15			1.3					3		
160 L	18.5			1.4							
180 M	22	48 · 110	297	2.5	340	226	SPZ 150	5	4	2LC0900-1AF90-0AA0	27
200 L	30	55 · 110		2.7					5		
	37			2.8			SPA 190	4	4	2LC0900-1AF91-0AA0	32
225 M	45			2.9			SPA 224	5		2LC0900-1AF92-0AA0	
250 M	55	60[3] · 140		3.1					5		35
280 S	75	65 · 140	395	5.3	448	363.5	SPB 236	7		2LC0900-3AF91-0AA0	
280 M	90			5.6					6		70
315 S	110			5.9					7		
315 M	132			6.2					7[2]		
315 L	160			6.8			SPB 280		7[2]	2LC0900-3AF92-0AA0	83

Configurable variants[1)]

» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

» The specified coupling weights are effective for maximum bores without oil filling.
» Delivery with oil filling only above -20°C.
» Axial retention is provided by a set screw and/or end washer with a retaining screw for shaft ends to DIN 748/1 long with a centring thread to DIN 332/2.
» For mass moments of inertia, centroidal distance Y and weight FY, see page 12 of this catalogue.

Ordering example

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

Ordering Code:

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

delivery without oil filling:
2LC0900-1AF91-0AA0-Z L1D+W03+Y95

delivery with oil filling:
2LC0900-1AF91-0AA0-Z L1D+W03+F16+Y90
Plain text to Y90: 2.8 l

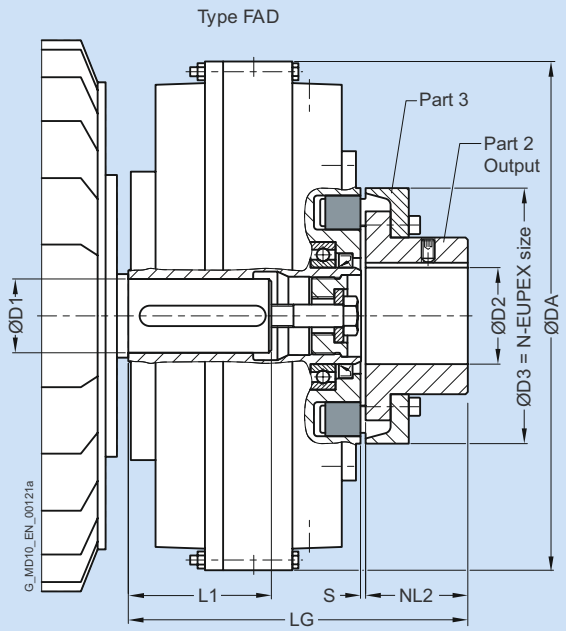
delivery with specification of oil filling quantity:
2LC0900-1AF91-0AA0-Z L1D+W03+F16+Y90
Plain text to Y90: 2.8 l

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

[2)] Flank-open belts required.

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

Speed n = 3000 rpm,
Type FAD with N-EUPEX D add-on coupling
This assignment offers safety in normal load cases and includes standard types with 140°C fusible safety plugs, for horizontal fitting and an ambient air temperature from -40°C to +40°C.



Three-phase motor			FLUDEX coupling				N-EUPEX D add-on Coupling			Product Code	Weight
Size	1500 min^{-1}		Size	Oil Filling							
	P_M kW	D1 · L1 mm		litres	DA mm	LG mm	NL2 mm	D3 mm	D2[2] max. mm		m kg
90 S	1.5	24 · 50	222	0.7	263	180	40	110	38	2LC0900-0AA9	12
90 L	2.2			0.8							
100 L	3	28 · 60		0.9							
112 M	4			1							
132 S	5.5	38 · 80		1							
	7.5			1.1							
160 M	11	42[3] · 110		1.2							
	15			1.3							
160 L	18.5			1.4							
180 M	22	48 · 110	297	2.5	340	233	50	125	45	2LC0900-1AA9	24
200 L	30	55 · 110		2.7							
200 L	37			2.8							
225 M	45			2.9							
250 M	55	60[3] · 140		3.1							
280 S	75	65 · 140	395	5.3	448	299	90	225	85	2LC0900-3AA9	53
280 M	90			5.6							
315 S	110			5.9							
315 M	132			6.2							
315 L	160			6.8							

Configurable variants[1)]

» ØD2 Without finished bore.
With finished bore.
» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

» The specified coupling weights are effective for maximum bores without oil filling.
» Delivery with oil filling only above -20°C.
» Axial retention is provided by a set screw and/or end washer with a retaining screw for shaft ends to DIN 748/1 long with a centring thread to DIN 332/2.
» For mass moments of inertia, centroidal distance Y and weight FY, see page 12 of this catalogue.

Ordering example

» Drive with motor 200 L, 30 kW at 1470 rpm with starting clutch and pulley.
» FLUDEX FAR 342 coupling, standard type.
» Hollow shaft: Bore ØD1 = 55H7 with keyway to DIN 6885/1 and retaining screw, with pulley 5xSPA O180.

Ordering Code:

» Drive with motor 280 M, 90 kW at 2950 rpm with starting clutch for connecting two shafts.
» FLUDEX FAD 395 coupling, standard type.
» Hollow shaft: Bore OD1 = 65H7 with keyway to DIN 6885/1 and retaining screw.
» Part 2: Bore OD2 = 60H7 with keyway to DIN 6885/1 and set screw.

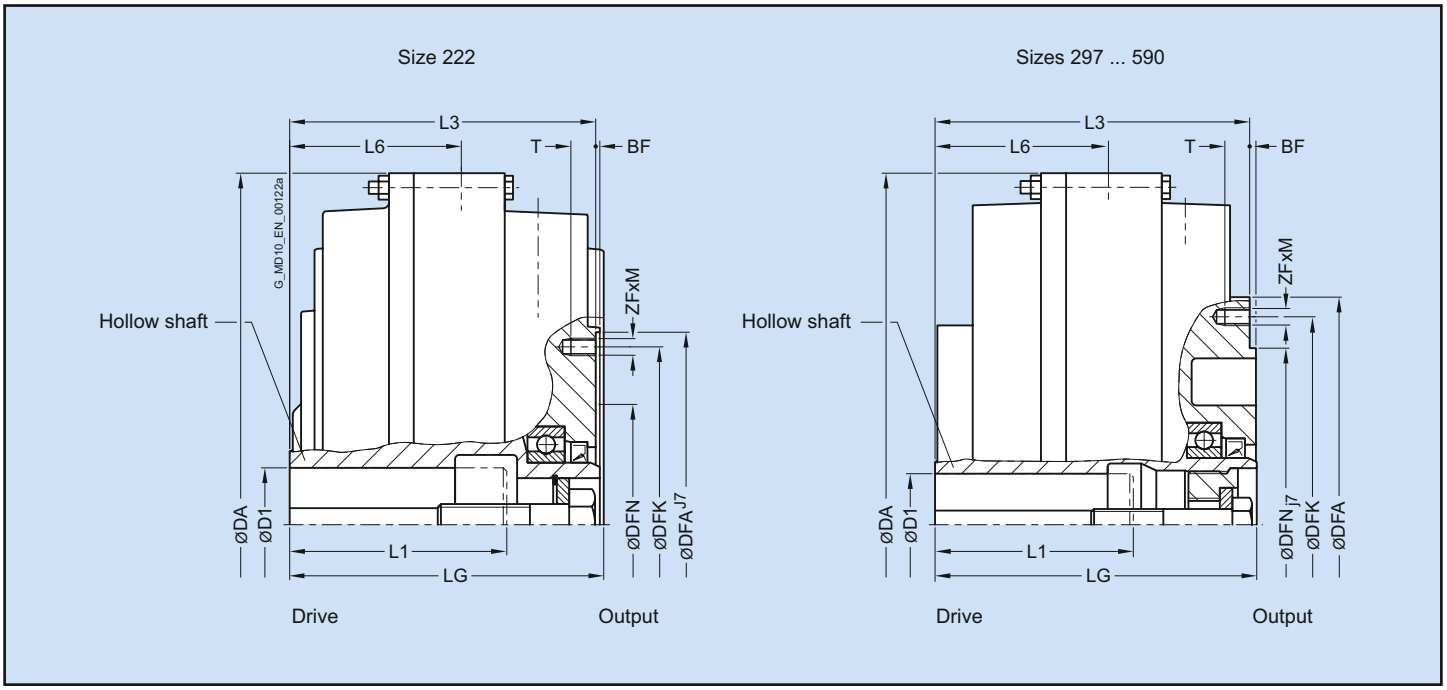
delivery without oil filling:
2LC0900-3AA99-0AA0-Z L1F+M1E+W03

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)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

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



Size	Max. Speed n_{Kmax}	FLUDEX Coupling Installation Dimensions								Flange Connection Dimensions						Tightening Torque for Screws in Thread ZF x M T_A	Product Code	Weight m
		D1 Keyway to DIN 6885			L1	DA	L3	L6	LG	DFN	DFA	BF	DFK	ZF • M	T			
		min.	max.	Prefered Bore														
	(rpm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(Nm)		(kg)
222	3600		38	28	80	263	110	58	112	90	144	2	128	6 • M8	12	18.7	2LC0900-0AG90-0AA0	10
		>38[2]	42[2]															
297	3600		38		80	340	145	83	150	125	195	3	172	6 • M8	12	18.7	2LC0900-1AG90-0AA0	18
		>38	55	42	110													
		>55[2]	60[2]		110													
342	3600		55	48 + 55	110	400	174	101	180	140	230	4	205	8 • M10	15	31	2LC0900-2AG90-0AA0	26
		>55[2]	60[2]		120													
395	3000		65	60 + 65	140	448	200.5	110.5	205	225	290	4	265	8 • M12	18	54	2LC0900-3AG90-0AA0	40
450	3000		75	65 + 75	140	512	228	126	233	250	310	4	285	8 • M12	18	54	2LC0900-4AG90-0AA0	53
		>75	80		170													
516	2300		55		140	584	263	147	270	315	390	5	360	8 • M16	24	135	2LC0900-5AG90-0AA0	84
		>55	90	80	170													
590	2000		75		140	662	298	166	305	315	390	5	360	8 • M16	24	135	2LC0900-6AG90-0AA0	109
		>75	95		170													
		>95	100		210													

Configurable variants[1)]

» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

» The specified coupling weights are effective for maximum bores without oil filling.
» Delivery with oil filling only above -20°C.
» For mass moments of inertia, centroidal distance Y and weight FY, see page 12 of this catalogue.

Ordering example

» Motor 37 kW, P_{eff} = 30 kW, n_1 = 1470 rpm, maximum output torque: $T_{max} = 2.0 \cdot T_{eff}$.
» FLUDEX FAO coupling size 342.
» Hollow shaft: Bore ØD1 = 60H7 mm with keyway to DIN 6885/3 and retaining screw.
» Seal set FPM.
» Specification of oil filling quantity: 6.0 l, see page 5 of this catalogue..

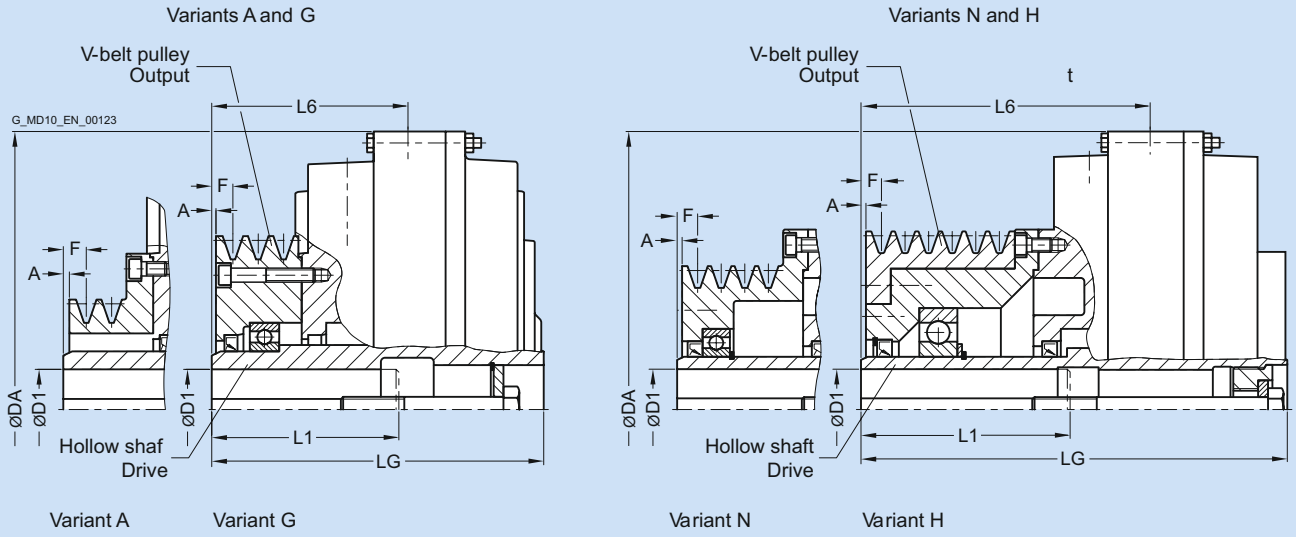
Ordering Code:

with 160 °C fuse:
2LC0900-2AG90-0AA0-Z L1E+F08+Y90
Plain text to Y90: 6.0 l

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

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

with attached v-belt pulley



Size	Max. Speed n_{Kmax}	FLUDEX Coupling							V-belt Pulley				Type	Product Code	Weight m
		D1 Keyway to DIN 6885			L1	DA	L6	LG	Profile, Pitch Ø	Chamfer Number	A	F			
	(rpm)	min. (mm)	max. (mm)	Prefered Bore (mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)			(kg)
222	3600		28	28	60	263	95	153	SPZ 100	2	1	9	A	2LC0900-0AF90-0AA0	12
		>28	38		105				SPZ 160	3			G	2LC0900-0AF91-0AA0	14
		>38[2]	42[2]		110										
297	3600		38		80	340	143	226	SPZ 150	5	2	10	N	2LC0900-1AF90-0AA0	27
		>38	55	42	110										
		>55[2]	59[2]		110				SPA 190	4	0		H	2LC0900-1AF91-0AA0	32
		>59[2]	60[2]		140				SPA 224	5	0		G	2LC0900-1AF92-0AA0	35
342	3600		55	55	110	400	177	278	SPA 180	5	4	14	N	2LC0900-2AF90-0AA0	40
395	3000		55		110	448	214.5	325	SPB 224	5	4	16.5	N	2LC0900-3AF90-0AA0	63
		>55	65	60 + 65	140										
	3000		55		110	448	253	363.5	SPB 236	7			N	2LC0900-3AF91-0AA0	70
	2700	>55	75		140				SPB 280	7			H	2LC0900-3AF92-0AA0	83
450	3000		55		110	512	284	410	SPB 250	8	4	16.5	N	2LC0900-4AF90-0AA0	94
		>55	75	65 + 75	140										
		>75	80		170										
516	2300		55		110	584	344	491	SPB 315	10	4	16.5	N	2LC0900-5AF90-0AA0	152
		>55	75		140										
		>75	95		170										
		>95	100		210										
590	2000		55		110	662	476	642	SPC 315	12	4	21	N	2LC0900-6AF90-0AA0	208
		>55	75		140										
		>75	95		170										
		>95	100		210										

Configurable variants[1)]

» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

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

Ordering example

» Motor 45 kW, P_{eff} = 37 kW, n1 = 1470 rpm, maximum output torque: $T_{max} = 2.0 \cdot T_{eff}$.
» FLUDEX FAR coupling size 395
» Hollow shaft: Bore ØD1 = 60H7 mm with keyway to DIN 6885/3 and retaining screw.
» Specification of oil filling quantity: 6.0 l, see page 5 of this catalogue.

Ordering Code:

with pulley 5xSPB224:
2LC0900-3AF90-0AA0-Z L1E+Y90
Plain text to Y90: 7.6 l

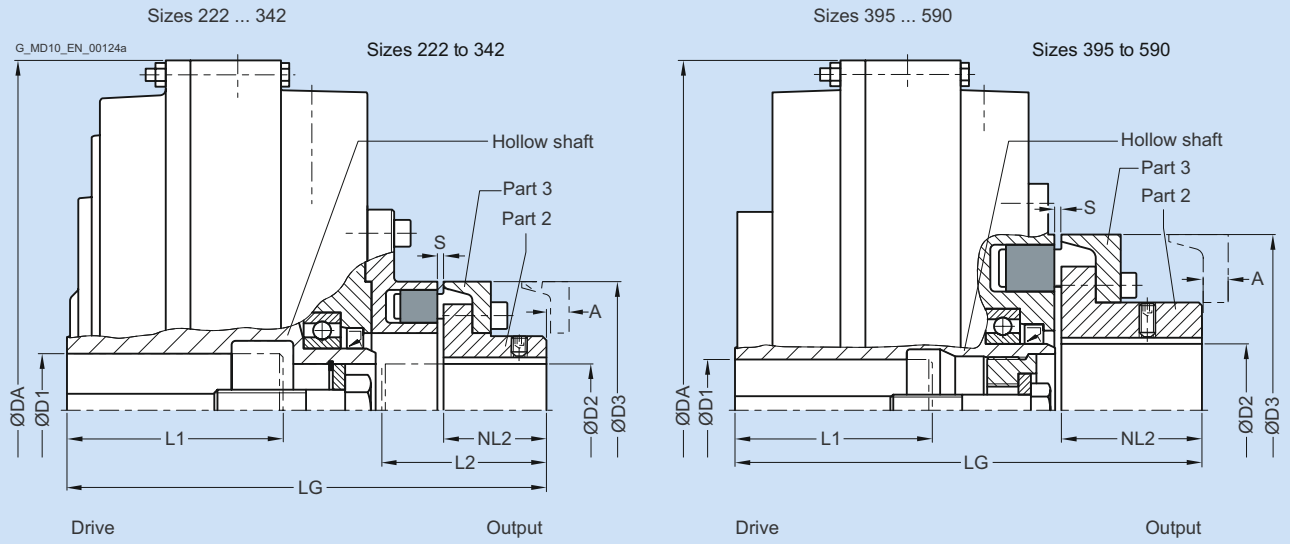
with pulley 7xSPB236:
2LC0900-3AF91-0AA0-Z L1E+Y90
Plain text to Y90: 7.6 l

with 160 °C fuse:
2LC0900-3AF90-0AA0-Z L1E+Y90+F08
Plain text to Y90: 7.6 l

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

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

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



Size	Max. Speed n_{Kmax}	FLUDEX Coupling						N-EUPEX D add-on Coupling						Product Code	Weight m
		D1 Keyway to DIN 6885			L1	DA	LG	D2	L2	NL2	Size D3	S	A		
	(rpm)	min. (mm)	max. (mm)	Prefered Bore (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(kg)
222	3600		38	28	80	263	180	38	65	40	110	3^{+1}_{-1}	13	2LC0900-0AA9	12
		>38 [2]	42 [2]												
297	3600		38		80	340	233	45	80	50	125	3^{+1}_{-1}	11	2LC0900-1AA9	24
		>38	55	42	110										
		>55 [2]	60 [2]	110											
342	3600		55	48 + 55	110	400	271	50	88	55	140	3^{+1}_{-1}	16	2LC0900-2AA9	34
		>55 [2]	60 [2]		120										
395	3000		65	60 + 65	140	448	299	85	90	90	225	$4.5^{+1.5}_{-1.5}$	9	2LC0900-3AA9	53
450	3000		75	65 + 75	140	512	338	95	100	100	250	6^{+2}_{-3}	11	2LC0900-4AA9	70
		>75	80		170										
516	2300		55		140	584	398	120	125	125	315	5^{+3}_{-2}	0	2LC0900-5AA9	113
		>55	90	80	170										
590	2000		75		140	662	433	120	125	125	315	5^{+3}_{-2}	0	2LC0900-6AA9	138
		>75	95		170										
		>95	100		210										

Configurable variants[1)]

» ØD2 Without finished bore.
With finished bore.
» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

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

Ordering example

» Motor 160 kW, P_{eff}= 132 kW, n1 = 1470 rpm, maximum output torque: $T_{max} = 2.0 \cdot T_{eff}$.
» FLUDEX FAD coupling size 516
» Hollow shaft: Bore ØD1= 80H7 mm with keyway to DIN 6885/1 and retaining screw
» Part 2: with finished bore ØD2 = 80H7
» Specification of oil filling quantity: 17.7 l, see page 5 of this catalogue

Ordering Code:

2LC0900-5AA99-0AA0-Z L1J+M1J+Y90
Plain text to Y90: 17.7 l

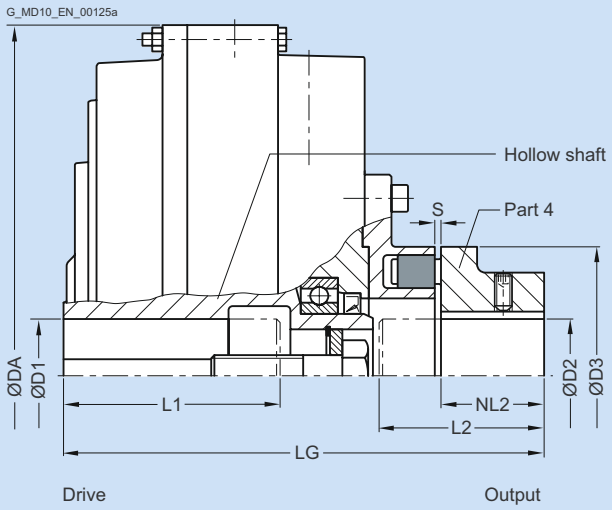
Motor 45 kW, Peff = 42 kW, n1 = 2950 rpm
• FLUDEX FAE coupling size 342
• Hollow shaft: Bore ØD1 = 55H7 mm with keyway to DIN 6885/1 and retaining screw
• Part 4: Bore ØD2 = 60H7 mm with keyway to DIN 6885/1 and set screw
• with micro-balancing (high speed)
• with electronic operation monitoring
• seal set NBR
• Delivery without oil filling, no oil filling quantity specification
Article no. with EOC system:
2LC0900-2AB99-0AA0-Z L1D+M1E+F04+F26+W03+Y95
Plain text to Y95: G 6.3, n = 2950 rpm

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

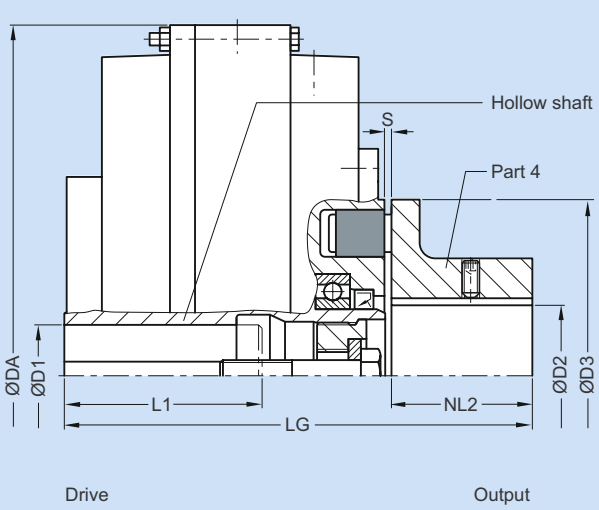
[2)] Version with flat groove as per DIN 6885/3.

Enables larger bores on the output side.

Sizes 222 ... 342



Sizes 395 ... 450



Size	Max. Speed n_{Kmax}	FLUDEX Coupling						N-EUPEX D add-on Coupling					Product Code	Weight m
		D1 Keyway to DIN 6885			L1	DA	LG	D2	L2	NL2	Size D3	S		
	(rpm)	min. (mm)	max. (mm)	Prefered Bore (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(kg)
222	3600		38	28	80	263	180	48	65	40	110	3^{+1}_{-1}	2LC0900-0AB9	12
		>38 [2]	42 [2]											
297	3600		38		80	340	233	55	80	50	125	3^{+1}_{-1}	2LC0900-1AB9	24
		>38	55	42	110									
		>55 [2]	60 [2]		110									
342	3600		55	48 + 55	110	400	271	60	88	55	140	3^{+1}_{-1}	2LC0900-2AB9	34
		>55 [2]	60 [2]		120									
395	3000		65	60 + 65	140	448	299	90	90	90	225	$4.5^{+1.5}_{-1.5}$	2LC0900-3AB9	50
450	3000		75	65 + 75	140	512	338	100	100	100	250	6^{+2}_{-3}	2LC0900-4AB9	68
		>75	80		170									

Configurable variants[1)]

» ØD2 Without finished bore.
With finished bore.
» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

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

Ordering example

» Motor 45 kW, Peff = 42 kW, n1 = 2950 rpm.
» FLUDEX FAE coupling size 342.
» Hollow shaft: Bore ØD1 = 55H7 mm with keyway to DIN 6885/1 and retaining screw.
» Part 4: Bore ØD2 = 60H7 mm with keyway to DIN 6885/1 and set screw.
» With micro-balancing (high speed).
» With electronic operation monitoring.
» Seal set NBR.
» Delivery without oil filling, no oil filling quantity specification.

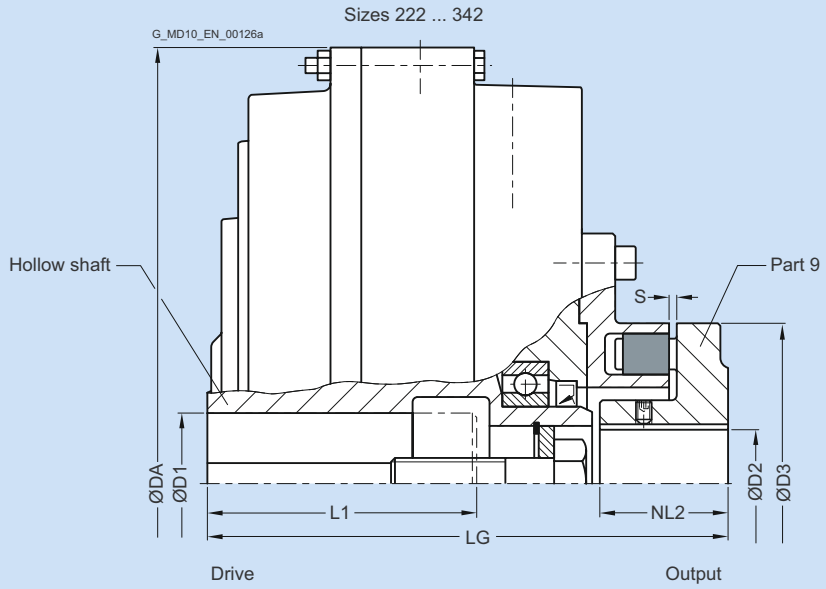
Ordering Code:

with EOC system:
2LC0900-2AB99-0AA0-Z L1D+M1E+F04+F26+W03+Y95
Plain text to Y95: G 6.3, n = 2950 rpm

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

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

Enables la short fitting length.



Size	Max. Speed n_{Kmax}	FLUDEX Coupling						N-EUPEX D add-on Coupling				Product Code	Weight m
		D1 Keyway to DIN 6885			L1	DA	LG	D2	NL2	Size D3	S		
	(rpm)	min. (mm)	max. (mm)	Prefered Bore (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(kg)
222	3600		38	28	80	263	150	38	36	110	3^{+1}_{-1}	2LC0900-0AH9	12
		>38[2]	42[2]										
297	3600		38		80	340	203	48	50	125	3^{+1}_{-1}	2LC0900-1AH9	24
		>38	55	42	110								
		>55[2]	60[2]		110								
342	3600		55	48 + 55	110	400	228	52	55	140	3^{+1}_{-1}	2LC0900-2AH9	34
		>55[2]	60[2]		120								

Configurable variants[1)]

» ØD2 Without finished bore.
With finished bore.
» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

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

Ordering example

» Motor 22 kW, P_{eff} = 42 kW, n1 = 1470 rpm.
» FLUDEX FAM coupling size 342.
» Hollow shaft: Bore ØD1 = 40H7 mm with keyway to DIN 6885/1 and retaining screw.
» Part 9: Bore ØD2 = 48H7 mm with keyway to DIN 6885/1 and set screw.
» Delivery without oil filling, no oil filling quantity specification.

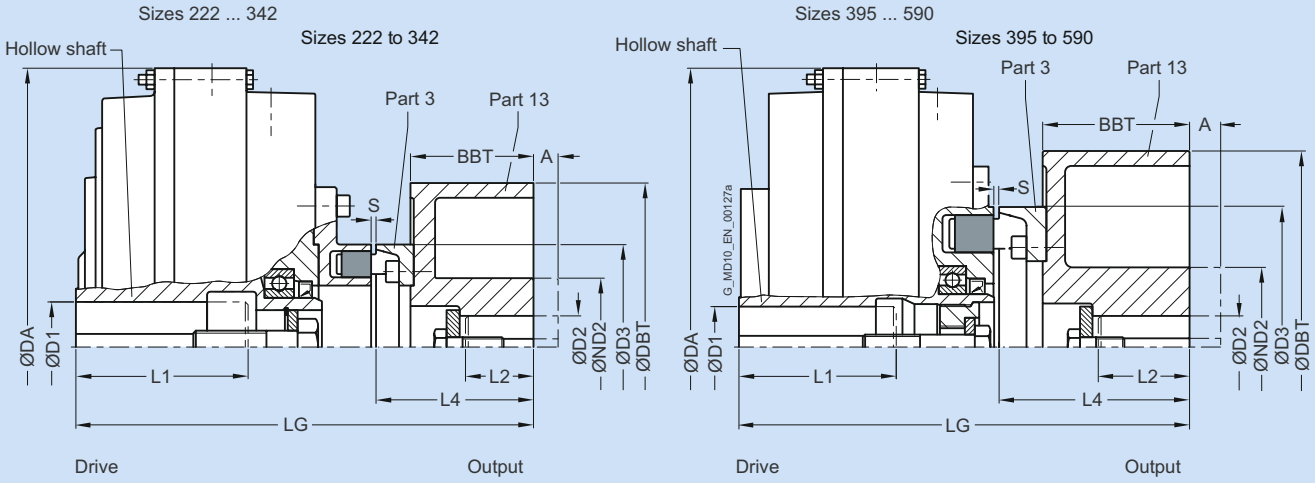
Ordering Code:

with drive via housing:
2LC0900-2AH99-0AA0-Z L0W+M1B+F23

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

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

Enables la short length.



Size	Max. Speed	FLUDEX Coupling					N-EUPEX D add-on Coupling			Brake Drum (Part 13)					Product Code	Weight
	n_{Kmax}	D1 Keyway to DIN 6885		L1	DA	LG	Size D3	S	L4	D2	ND2	DBT	BBT	A		m
	(rpm)	min. (mm)	max. (mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)		(kg)
222	3600		38	80	263	232	110	3^{+1}	92	42	68	200	75	30	2LC0900-0AC9	17
		>38[2]	42[2]													
297	3600		38	80	340	279	125	3^{+1}_{-1}	96	55	84	200	75	30	2LC0900-1AC9	29
		>38	55	110												
		>55[2]	60[2]	110												
342	3600		55	110	400	337	140	3^{+1}_{-1}	121	60	128[3]	250	95	50	2LC0900-2AC9	48
		>55[2]	60[2]	120												
395	3000		65	140	448	362	225	$4.5^{+1.5}_{-1.5}$	153	80	128	315	118	50	2LC0900-3AC9	71
450	3000		75	140	512	395	250	6^{+2}_{-3}	157	80	128	315	118	50	2LC0900-4AC9	86
		>75	80	170												
516	2300		55	140	584	466	315	5^{+3}_{-2}	193	100	160	400	150	80	2LC0900-5AC9	146
		>55	90	170												
590	1900		75	140	662	540	315	5^{+3}_{-2}	232	110	175	500	190	110	2LC0900-6AC9	207
		>75	95	170												
		>95	100	210												

Configurable variants[1)]

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

Notes

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

Ordering example

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

Ordering Code:

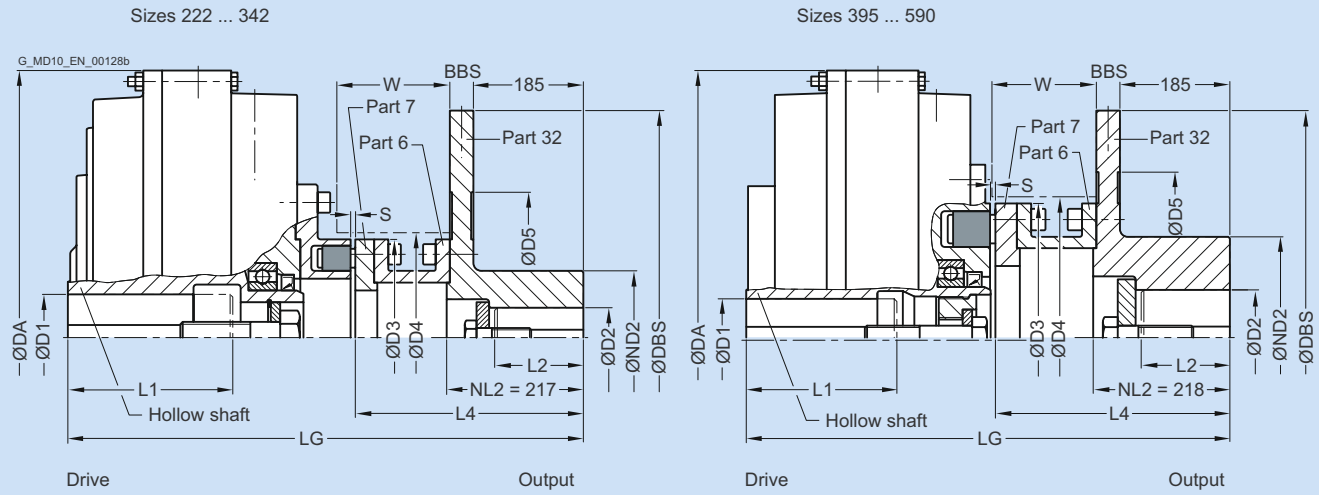
Part 13 Standard brake drum:
2LC0900-2AC99-0AA0-Z L1D+M1C+Y29
Plain text to Y29: 90 mm

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

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

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

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



Size	Max. Speed	FLUDEX Coupling					N-EUPEX D add-on Coupling			Brake Drum (Part 13)					Space Dimensions		Product Code	Weight
	n_{Kmax}	D1 Keyway to DIN 6885		L1	DA	LG	Size D3	S	L4	D2	ND2	DBS	BBS	D5	D4	W		m
	(rpm)	min. (mm)	max. (mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(kg)
222	3600		38	80	263	494	110	5^{+1}	352	42	100	315	30	165	115	149	2LC0900-0AD9	35
		>38[3]	42[3]															
297	3600		38	80	340	537	125	5^{+1}	352	60	120	355	30	205	130	155	2LC0900-1AD9	68
		>38	55	110														
		>55[3]	60[3]	110														
342	3300	>55[3]	60[3]	120	400	570	140	5^{+1}	352	60	120	400	30	250	145	155	2LC0900-2AD9	83
		>55[3]	60[3]	120														
395	3000		65	140	448	602	225	6^{+1}	391.5	80	150	450	30	300	230	182	2LC0900-3AD9	102
450	2300		75	140	512	630.5	250	8^{+1}	390.5	90	160	560	30	370	260	182	2LC0900-4AD9	141
		>75	80															
516	2100		55	140	584	706.5	315	8^{+1}	430.5	100	160	630	30	440	325	222	2LC0900-5AD9	199
		>55	90	170														
590	2000		75	140	662	741.5	315	8^{+1}	430.5	100	160	630	30	440	325	222	2LC0900-6AD9	224
		>75	95	170														
		>95	100	210														

Configurable variants[1)]

» ØD2 Without finished bore.
With finished bore.
» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

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

Ordering example

» Motor 90 kW, P_{eff} = 75 kW, n_1 = 1470 rpm.
» FLUDEX FADS SB coupling size 450.
» Hollow shaft: Bore ØD1 = 75H7 mm with keyway to DIN 6885/1 and retaining screw.
» Brake drum (Part 13): Bore ØD2 = 50H7 mm with keyway to DIN 6885/1 and retaining screw.
» With preservation suitable for indoor storage.
» Shaft end insertion depth L2 = 90 mm
» Delivery without oil filling, no oil filling quantity specification.

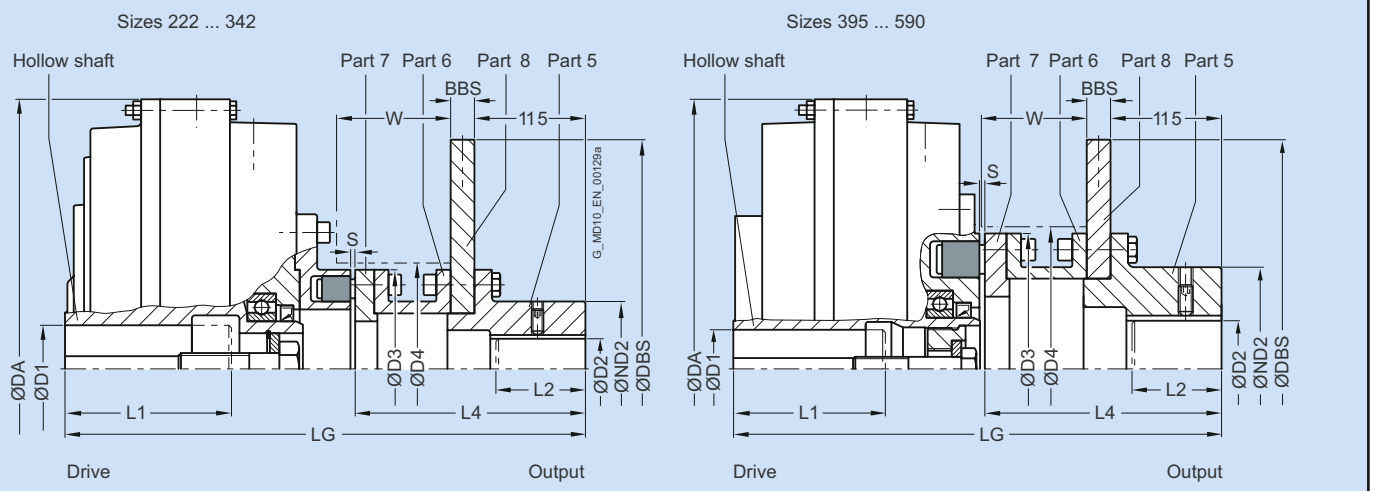
Ordering Code:

With preservation 24 months:
2LC0900-4AD99-0AA0-Z L1H+M1J+B28+Y29
Plain text to Y29: 90 mm

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

[2)] Hub shortening possible, clearly specify NL2 size.

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



Size	Max. Speed	FLUDEX Coupling					N-EUPEX D add-on Coupling			Brake Drum (Part 13)				Space Dimensions		Product Code	Weight
	n_{Kmax}	D1 Keyway to DIN 6885		L1	DA	LG	Size D3	S	L4	D2	ND2	DBS	BBS	D4	W		m
	(rpm)	min. (mm)	max. (mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(kg)
222	3600		38	80	263	366.5	110	5^{+1}	224.5	42	70	250	12.5	115	109	2LC0900-0AE9	22
		>38[2]	42[2]														
297	3600		38	80	340	409.5	125	5^{+1}	224.5	60	85	250	12.5	130	115	2LC0900-1AE9	33
		>38	55	110													
		>55[2]	60[2]	110													
342	3600		55	110	400	442.5	140	5^{+1}	224.5	60	90	250	12.5	145	115	2LC0900-2AE9	45
		>55[2]	60[2]	120													
395	3000		65	140	448	478	225	6^{+1}	267.5	80	150	355	16	230	142	2LC0900-3AE9	80
450	2750		75	140	512	546.5	250	8^{+1}	306.5	90	160	355	16	260	182	2LC0900-4AE9	101
			80	170													
516	2150		55	140	584	566.5	315	8^{+1}	290.5	100	160	450	16	325	166	2LC0900-5AE9	154
		>55	90	170													
590	2000	75	140		662	601.5	315	8^{+1}	290.5	100	160	450	16	325	166	2LC0900-6AE9	179
		>75	95	170													
		>95	100	210													

Configurable variants[1)]

» ØD2 Without finished bore.
With finished bore.
» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

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

Ordering example

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

Ordering Code:

With preservation 24 months:
2LC0900-3AE99-0AA0-Z L1F+M1J+W03+Y95
Plain text to Y95: G 6.3, n = 1500 rpm

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

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

FLENDER

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

Sizes 222, 342, 450 and 590

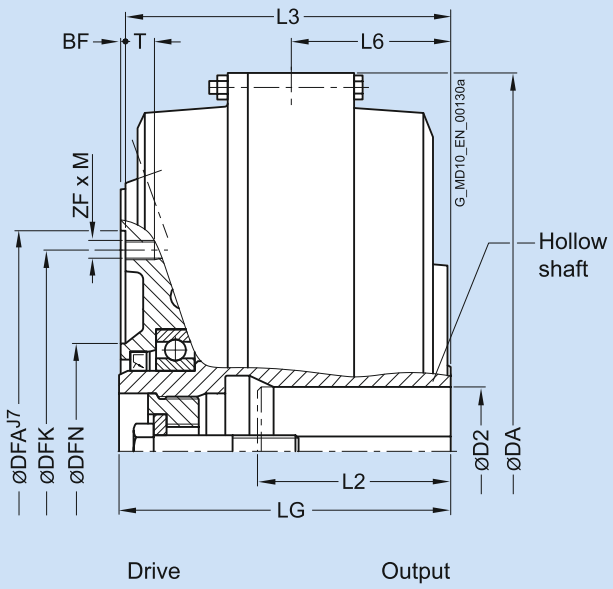
P_{eff}	Speed in rpm										Size
	600	740	890	980	1180	1470	1770	2300	2950	3550	
kW	Oil filling quantity in l										
0.55	4.3		1.4	1.3	1.1						
0.75	4.7		1.5	1.4	1.2						
1.1	5.1	4.4	1.55	1.55	1.4	1.1					
2.2	6.2	5.2	4.5	4.2	1.55	1.4	1.2				
3	9.5	5.6	4.9	4.6	1.55	1.5	1.3	1			
4	10.2	6.1	5.3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

FLENDER

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

Sizes 297, 395 and 516

P_{eff}	Speed in rpm										Size
	600	740	890	980	1180	1470	1770	2300	2950	3550	
kW	Oil filling quantity in l										
0.55	3.2	2.8									
0.75	3.5	3	2.6								
1.1	3.7	3.3	2.9	2.7							
2.2	7.3	3.7	3.4	3.2	2.8						
3	7.9	6.8	3.7	3.4	3	2.5					
4	8.5	7.3	3.7	3.7	3.2	2.7					
5.5	9.4	7.9	6.8	3.7	3.5	2.9	2.6				
7.5	17	8.5	7.4	6.9	3.7	3.2	2.8	2.4			
11	18.7	16	8.1	7.6	6.6	3.5	3	2.5			
15	20.3	17.3	8.9	8.2	7.1	3.7	3.3	2.7			
18	21.4	18	15.7	8.6	7.4	3.7	3.4	2.8	2.4		
22		19	16.5	15.4	7.8	6.6	3.6	3	2.5		
30		20.6	17.8	16.6	8.5	7.2	6.3	3.2	2.7	2.4	297
37			18.8	17.5	15.2	7.6	6.6	3.4	2.8	2.5	
45			19.8	18.4	16	7.9	6.9	3.6	2.9	2.6	
55			21	19.3	16.8	8.4	7.3	6	3.1	2.7	
75				21.1	18.1	15.4	7.9	6.5	5.3	2.9	
90					19	16.1	14.1	6.7	5.6	3	
110					20.1	16.9	14.8	7.1	5.9		395
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			



Size	Max. Speed n_{Kmax}	Installation Dimensions							Flange Connection Dimensions						Tightening Torque for Screws in Thread ZF x M T_A	Product Code	Weight m
		D1 Keyway to DIN 6885		L2	DA	L3	L6	LG	DFN	DFA	BF	DFK	ZF • M	T			
	(rpm)	min. (mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(Nm)		(kg)
370	3600		75	140	420	182	84	185	126	220	3	200	8 · M10	15	31	2LC0900-8CE09-0AA0	34
425	3000		80	140	470	202	99	205	134	274	3	250	8 · M12	18	54	2LC0901-0CE09-0AA0	45
490	2600		55	110	555	232	105	236	150	314	4	282	8 · M16	24	135	2LC0901-1CE09-0AA0	75
		>55	75	140													
		>75	100	170													
565	2300		110	170	630	250	123	254	166	344	4	312	8 · M16	24	135	2LC0901-2CE09-0AA0	95
655	2000		130	210	736	296	145	301	180	430	5	390	8 · M20	25	260	2LC0901-3CE09-0AA0	142
755	1800		150	240	840	341	176	346	226	480	5	440	10 · M20	25	260	2LC0901-4CE09-0AA0	208
887	1500		150	275	990	391	217	396	249	520	5	480	10 · M20	25	260	2LC0901-5CE09-0AA0	362

Configurable variants[1)]

» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

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

Ordering example

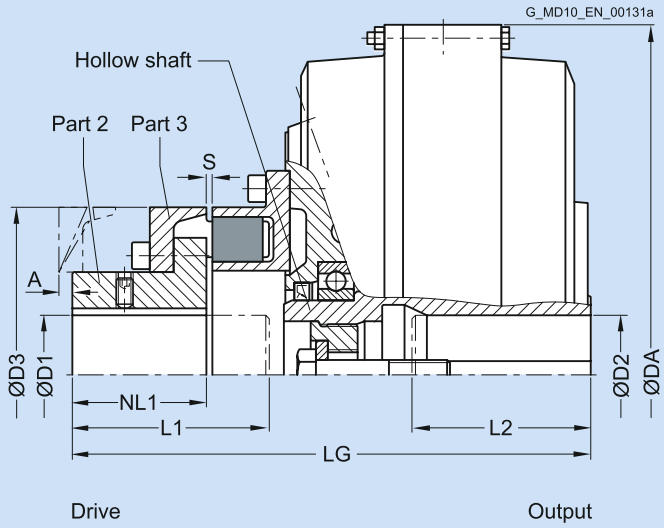
» Motor 132 kW, P_{eff} = 110 kW, n_1 = 1470 rpm, maximum output torque: $T_{max} = 2.0 \cdot T_{eff}$.
» FLUDEX FGO coupling size 490.
» Hollow shaft: Bore ØD2 = 70H7 mm with keyway to DIN 6885/1 and retaining screw.
» Delivery with oil filling: 14.4 l, see page 5 of this catalogue.

Ordering Code:

2LC0901-1CE09-0AA0-Z L1G+F16+Y90
Plain text to Y90: 14.4 l

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

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



Size	Max. Speed n_{Kmax}	Installation Dimensions					Flange Connection Dimensions						Product Code	Weight m
		D1 Keyway to DIN 6885		L2	DA	LG	D1	L1	NL1	Size D3	S	A		
	(rpm)	min. (mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(kg)
370	3600		75	140	420	298	65	110	70	180	4^{+2}_{-2}	10	2LC0900-8CA	44
425	3000		80	140	470	348	85	140	90	225	4^{+2}_{-2}	9	2LC0901-0CA	66
490	2600		55	110	555	397	95	155	100	250	5^{+3}_{-2}	11	2LC0901-1CA	105
		>55	75	140										
		>75	100	170										
565	2300		110	170	630	430	105	170	110	280	5^{+3}_{-2}	5	2LC0901-2CA	134
655	2000		130	210	736	515	140	210	140	350	5^{+3}_{-2}	0	2LC0901-3CA	217
755	1800		150	240	840	584	150	230	160	400	5^{+3}_{-2}	0	2LC0901-4CA	307
887	1500		150	275	990	665	160	260	180	440	8^{+2}_{-3}	0	2LC0901-5CA	491

Configurable variants[1)]

» ØD1 Without finished bore. With finished bore.
» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

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

Ordering example

» Motor 350 kW, P_{eff} = 315 kW, n_1 = 1470 rpm.
» FLUDEX FGO coupling size 655 standard type.
» Hollow shaft: Bore ØD2 = 120H7 mm with keyway to DIN 6885/1 and retaining screw.
» Delivery without oil filling, no oil filling quantity specification.

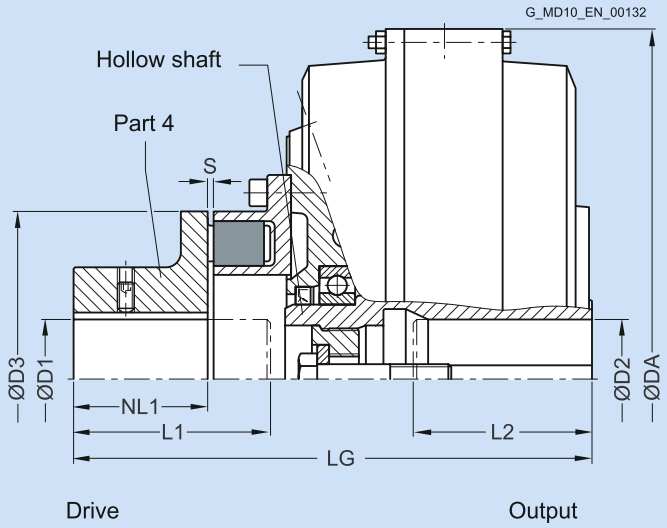
Ordering Code:

2LC0901-1CE09-0AA0-Z L1G+F16+Y90
Plain text to Y90: 14.4 l

Without finished bore for ØD1 = 110 mm:
2LC0901-3CA19-0AA0-Z L1S
Without finished bore for ØD1 = 130 mm:
2LC0901-3CA29-0AA0-Z L1S
With finished bore for ØD1 = 140H7 mm:
2LC0901-3CA99-0AA0-Z L1S+M1V

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

Enables larger bores on the drive side.



Size	Max. Speed n_{Kmax}	FLUDEX Coupling					N-EUPEX E add-on Coupling					Product Code	Weight m
		D1 Keyway to DIN 6885		L2	DA	LG	D1	L1	NL1	Size D3	S		
	(rpm)	min. (mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(kg)
370	3600		75	140	420	298	75	110	70	180	4^{+2}_{-2}	2LC0900-8CB	44
425	3000		80	140	470	348	90	140	90	225	4^{+2}_{-2}	2LC0901-0CB	64
490	2600		55	110	555	397	100	155	100	250	5^{+3}_{-2}	2LC0901-1CB	101
		>55	75	140									
		>75	100	170									
565	2300		110	170	630	430	110	170	110	280	5^{+3}_{-2}	2LC0901-2CB	129

Configurable variants[1)]

» ØD1 Without finished bore. With finished bore.
» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

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

Ordering example

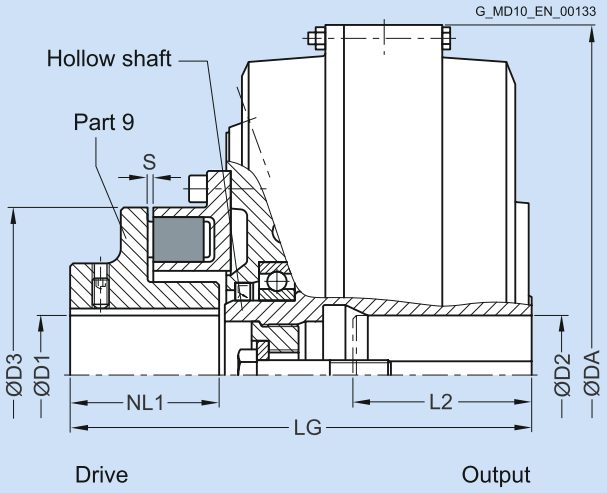
» Motor 160 kW, P_{eff} = 145 kW, n_1 = 1485 rpm.
» FLUDEX FGE coupling size 490 vertical version, motor overhead.
» Hollow shaft: Bore ØD2 = 60H7 mm with keyway to DIN 6885/1 and retaining screw.
» With seal set FPM.
» Delivery without oil filling, no oil filling quantity specification.

Ordering Code:

2LC0901-1CB99-0AA0-Z L1J+M1E+F08+F13+F16+Y90
Plain text to Y90: 15.4 l

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

Enables a short fitting length.



Size	Max. Speed n_{Kmax}	FLUDEX Coupling					N-EUPEX E add-on Coupling					Product Code	Weight m
		D1 Keyway to DIN 6885		L2	DA	LG	D1	L1	NL1	Size D3	S		
	(rpm)	min. (mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(kg)
370	3600		75	140	420	274	70	80	80	180	4^{+2}_{-2}	2LC0900-8CD	44
425	3000		80	140	470	310	85	100	100	225	4^{+2}_{-2}	2LC0901-0CD	64
490	2600		55	110	555	350	90	105	105	250	5^{+3}_{-2}	2LC0901-1CD	101
		>55	75	140									
		>75	100	170									
565	2300		110	170	630	380	100	120	120	280	5^{+3}_{-2}	2LC0901-2CD	128

Configurable variants[1)]

» ØD1 Without finished bore. With finished bore.
» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

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

Ordering example

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

Ordering Code:

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

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

FLENDER

This assignment is valid for a maximum starting torque $T_{max} = 2.0 \cdot T_{eff}$ and mineral oils with a viscosity of VG 22/VG 32.
If other operating fluids are used, or with drive via the hollow shaft or $T_{max} \neq 2.0 \cdot T_{eff}$, or $T_{max} \neq 1.5 \cdot T_{eff}$, changed filling quantities must be observed!

Sizes 370, 490, 655 and 887

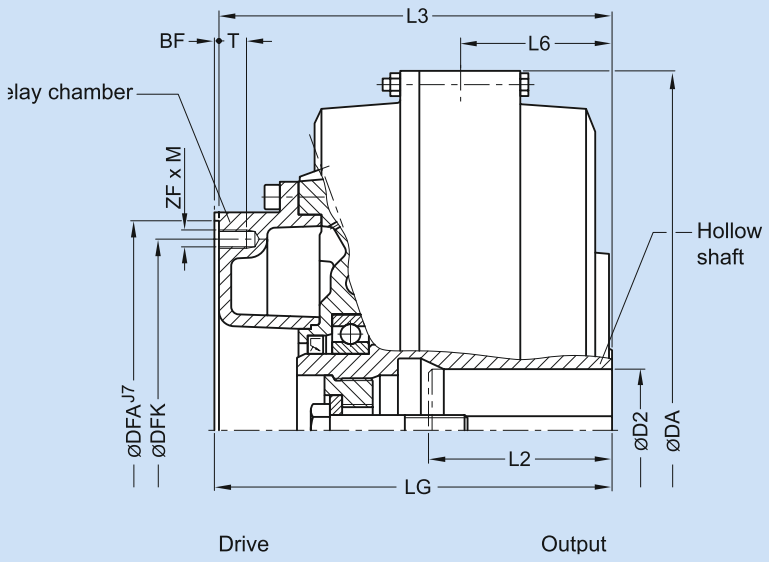
P_{eff}	Speed in rpm										Size
	600	740	890	980	1180	1470	1770	2300	2950	3550	
kW	Oil filling quantity in l										
1.1	5.2										
2.2	6.4										
3	7	5.9									
4	7.2	6.4	5.4								
5.5	13	6.9	6	5.4							
7.5	14.4	7.2	6.5	6	5.1						
11	15.9	13.3	7.2	6.7	5.7						
15	17	14.7	12.4	7.2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

FLENDER

This assignment is valid for a maximum starting torque $T_{max} = 2.0 \cdot T_{eff}$ and mineral oils with a viscosity of VG 22/VG 32.
If other operating fluids are used, or with drive via the hollow shaft or $T_{max} \neq 2.0 \cdot T_{eff}$, or $T_{max} \neq 1.5 \cdot T_{eff}$, changed filling quantities must be observed!

Sizes 425, 565 and 755

P_{eff}	Speed in rpm									Size
	600	740	890	980	1180	1470	1770	2300	2950	
kW	Oil filling quantity in l									
2.2	7.8									
3	8.7									
4	9.5	7.8								
5.5	10.3	8.7								
7.5	10.9	9.5	7.9							
11	19.9	10.5	9.1	8.2						
15	22	10.9	9.8	9.1						
18	23.2	19.1	10.3	9.6	8					
22	24.3	20.3	10.9	10.1	8.6					
30	40.2	22.4	18.9	10.9	9.5					
37	42.6	23.7	20.1	18.5	10	8.2				
45	45.8	24.9	21.5	19.5	10.5	8.8				
55	50.1	25.5	22.8	20.8	17.5	9.3	7.8			
75	55.6	43.8	24.6	22.9	19.3	10.1	8.6			
90	58.1	47.1	25.5	23.9	20.4	10.7	9.2	7.2		
110		51.7	41.5	25.5	21.8	17.7	9.7	7.6		
132		54.7	44	40.3	23	18.7	10.1	8.1	6.3	
160		57.4	47.5	42.5	24	19.8	16.7	8.6	6.8	
200		59	52.9	46.2	25.5	21.4	17.9	9.2	7.3	425
250			56	51.2	41.2	22.8	19.2	14.6	7.8	
315			59	55.1	44.4	24.2	20.6	16.1	8.3	
350				56.6	46.2	38	21.4	16.7		
400				58.4	49	39.3	22.2	17.4		565
500					53.7	41.6	36.3	18.7		
600					56.4	44.1	37.9			
750						48.4	40			755
900						52.8	42			
1100							45			



Size	Max. Speed n_{Kmax}	Installation Dimensions							Flange Connection Dimensions					Tightening Torque for Screws in Thread ZF x M T_A	Product Code	Weight m
		D1 Keyway to DIN 6885		L2	DA	L3	L6	LG	DFA	BF	DFK	ZF • M	T			
	(rpm)	min. (mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(Nm)		(kg)
370	3600		75	140	420	225	84	228	220	3	200	8 · M10	15	31	2LC0900-8ED09-0AA0	37
425	3000		80	140	470	257	99	260	274	3	250	8 · M12	18	54	2LC0901-0ED09-0AA0	47
490	2600		55	110	555	297	105	301	314	4	282	8 · M16	24	135	2LC0901-1ED09-0AA0	80
		>55	75	140												
		>75	100	170												
565	2300		110	170	630	333	123	337	344	4	312	8 · M16	24	135	2LC0901-2ED09-0AA0	103
655	2000		130	210	736	384	145	389	430	5	390	8 · M20	25	260	2LC0901-3ED09-0AA0	154
755	1800		150	240	840	440	176	445	480	5	440	10 · M20	25	260	2LC0901-4ED09-0AA0	224
887	1500		150	275	990	493	217	498	520	5	480	10 · M20	25	260	2LC0901-5ED09-0AA0	385

Configurable variants[1)]

» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

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

Ordering example

» Motor 132 kW, P_{eff} = 110 kW, n_1 = 1470 rpm.
» FLUDEX FVO coupling size 490.
» Hollow shaft: Bore ØD2 = 70H7 mm with keyway to DIN 6885/1 and retaining screw.
» Delivery with oil filling: 15.2 l, see page 5 of this catalogue.

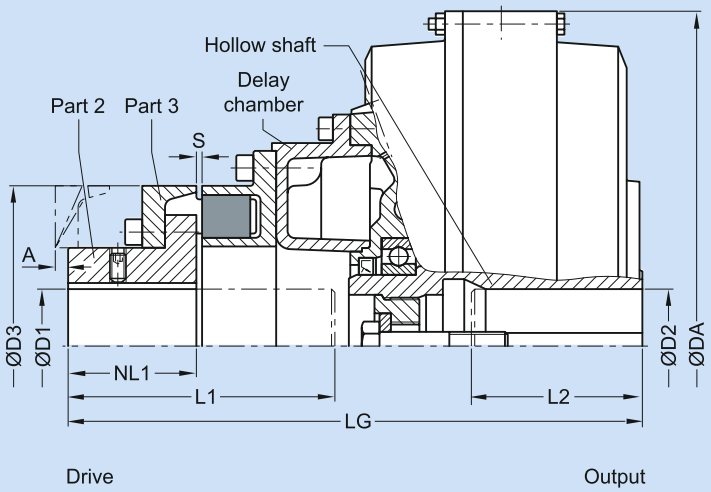
Ordering Code:

2LC0901-1ED09-0AA0-Z L1G+F16+Y90

Plain text to Y90: 15.2 l

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

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



Size	Max. Speed n_{Kmax}	FLUDEX Coupling					N-EUPEX D add-on coupling						Product Code	Weight m
		D2 Keyway to DIN 6885		L2	DA	LG	D1	L1	NL1	Size D3	S	A		
	(rpm)	min. (mm)	max. (mm)	max. (mm)	(mm)	(mm)	max. (mm)	(mm)	max. (mm)	(mm)	(mm)	(mm)		(kg)
370	3600		75	140	420	341	65	150	70	180	4^{+2}_{-2}	10	2LC0900-8EA	47
425	3000		80	140	470	403	85	190	90	225	4^{+2}_{-2}	9	2LC0901-0EA	68
490	2600		55	110	555	462	95	220	100	250	5^{+3}_{-2}	11	2LC0901-1EA	166
		>55	75	140										
		>75	100	170										
565	2300		110	170	630	513	105	250	110	280	5^{+3}_{-2}	5	2LC0901-2EA	142
655	2000		130	210	736	603	140	295	140	350	5^{+3}_{-2}	0	2LC0901-3EA	229
755	1800		150	240	840	683	150	330	160	400	5^{+3}_{-2}	0	2LC0901-4EA	323
887	1500		150	275	990	767	160	365	180	440	8^{+2}_{-3}	0	2LC0901-5EA	514

Configurable variants[1)]

» ØD1 Without finished bore
With finished bore.

» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

» The specified coupling weights are effective for maximum bores without oil filling.

» Delivery with oil filling only above -20°C.

Ordering example

» Motor 630 kW, P_{eff} = 500 kW, n_1 = 1770 rpm.

» FLUDEX FVD coupling size 655.

» Hollow shaft: Bore ØD2 = 950H7 mm with keyway to DIN 6885/1 and retaining screw.

» Part 2: Bore OD2 = 110H7 with keyway to DIN 6885/1 and set screw.

» With seal set FPM

» Delivery with oil filling: 15.2 l, see page 5 of this catalogue.

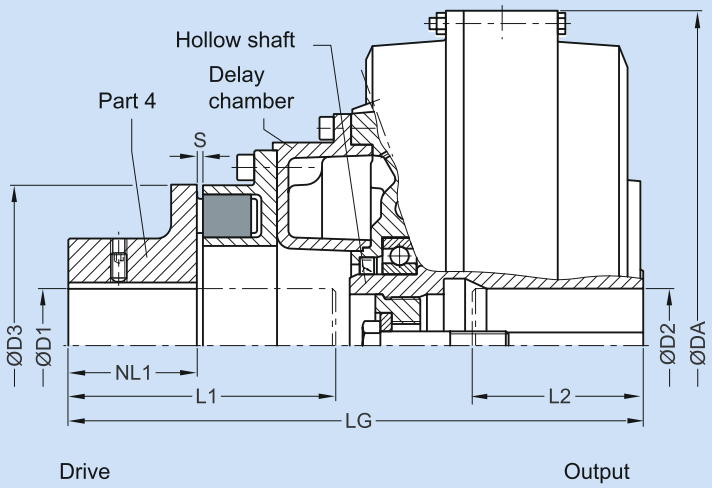
Ordering Code:

2LC0901-3EA99-0AA0-Z L1Q+M1M+F08+Y90

Plain text to Y90: 32.3 l

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

Enables larger bores on the drive side.



Size	Max. Speed n_{Kmax}	FLUDEX Coupling					N-EUPEX D add-on coupling					Product Code	Weight m
		D2 Keyway to DIN 6885		L2	DA	LG	D1	L1	NL1	Size D3	S		
	(rpm)	min. (mm)	max. (mm)	max. (mm)	(mm)	(mm)	max. (mm)	(mm)	max. (mm)	(mm)	(mm)		(kg)
370	3600		75	140	420	341	75	150	70	180	4^{+2}_{-2}	2LC0900-8EB	47
425	3000		80	140	470	403	90	190	90	225	4^{+2}_{-2}	2LC0901-0EB	66
490	2600		55	110	555	462	100	220	100	250	5^{+3}_{-2}	2LC0901-1EB	107
		>55	75	140									
		>75	100	170									
565	2300		110	170	630	513	110	250	110	280	5^{+3}_{-2}	2LC0901-2EB	137

Configurable variants[1)]

» ØD1 Without finished bore
With finished bore.
» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

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

Ordering example

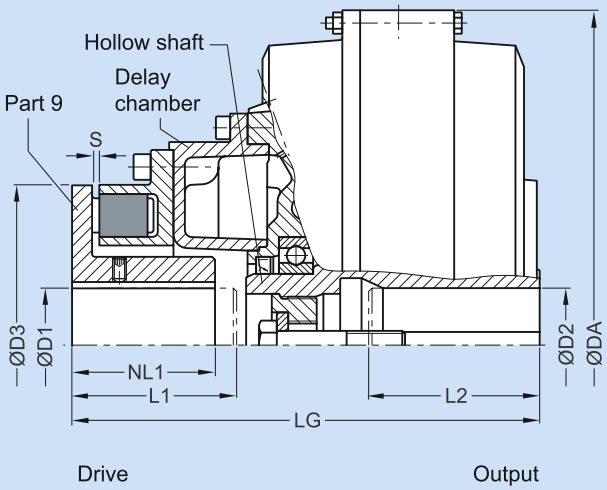
» Motor 45 kW, P_{eff} = 37 kW, n_1 = 1470 rpm.
» FLUDEX FVE coupling size 370.
» Hollow shaft: Bore ØD2 = 60H7 mm with keyway to DIN 6885/1 and retaining screw.
» Part 4: Bore ØD2 = 60H7 with keyway to DIN 6885/1 and set screw.
» With electronic or mechanical operation monitoring, seal set NBR
» Delivery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

Ordering 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

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

Enables a short fitting length.



Size	Max. Speed n_{Kmax}	FLUDEX Coupling					N-EUPEX D add-on coupling					Product Code	Weight m
		D2 Keyway to DIN 6885		L2	DA	LG	D1	L1	NL1	Size D3	S		
	(rpm)	min. (mm)	max. (mm)	max. (mm)	(mm)	(mm)	max. (mm)	(mm)	max. (mm)	(mm)	(mm)		(kg)
370	3600		75	140	420	288	70	100	85	180	4^{+2}_{-2}	2LC0900-8EC	46
425	3000		80	140	470	327	85	115	100	225	4^{+2}_{-2}	2LC0901-0EC	65
490	2600		55	110	555	382	90	140	110	250	5^{+3}_{-2}	2LC0901-1EC	104
		>55	75	140									
		>75	100	170									
565	2300		110	170	630	425	110	165	130	280	5^{+3}_{-2}	2LC0901-2EC	135

Configurable variants[1)]

» ØD1 Without finished bore
With finished bore.
» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.
» Thermal control unit for temperature monitoring
» Delivery without oil filling, no oil filling quantity specification.

Ordering Code:

2LC0901-2EC99-0AA0-Z L1M+M1H+F03+F25

Notes

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

Ordering example

» Motor 250 kW, P_{eff} = 180 kW, n_1 = 1470 rpm.
» FLUDEX FVE coupling size 565.
» Hollow shaft: Bore ØD2 = 95H7 mm with keyway to DIN 6885/1 and retaining screw.
» With seal set NBR

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

This assignment is valid for a maximum starting torque $T_{max} = 1.5 \cdot T_{eff}$ and mineral oils with a viscosity of VG 22/VG 32.
If other operating fluids are used, or with drive via the hollow shaft or $T_{max} \neq 2.0 \cdot T_{eff}$, or $T_{max} \neq 1.5 \cdot T_{eff}$, changed filling quantities must be observed!

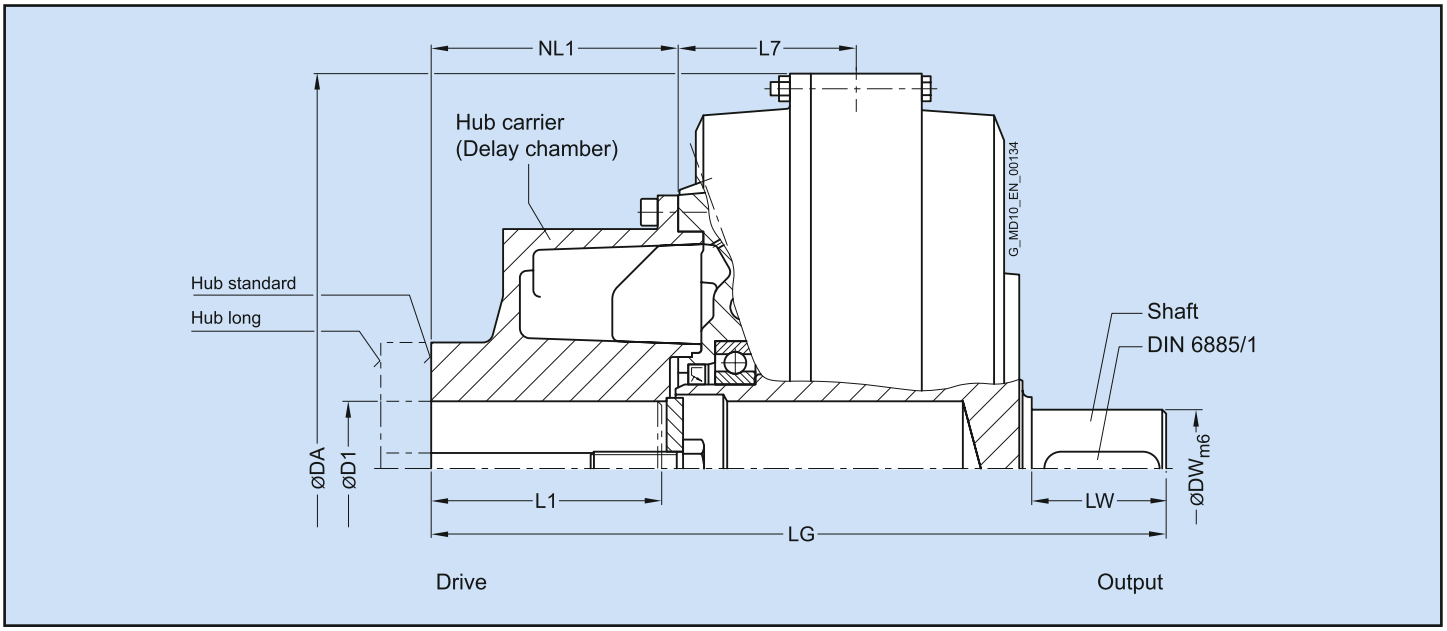
Sizes 370, 490, 655 and 887

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

This assignment is valid for a maximum starting torque $T_{max} = 1.5 \cdot T_{eff}$ and mineral oils with a viscosity of VG 22/VG 32.
If other operating fluids are used, or with drive via the hollow shaft or $T_{max} \neq 2.0 \cdot T_{eff}$, or $T_{max} \neq 1.5 \cdot T_{eff}$, changed filling quantities must be observed!

Sizes 425, 565 and 755

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



Size	Max. Speed n_{Kmax} (rpm)	Hub Carrier	Installation Dimensions							Connection Dimensions		Product Code	Weight m (kg)
			D2 Keyway to DIN 6885		L1	NL1	DA	L7	LG	DW	LW		
			min. (mm)	max. (mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
370	3600	Standard	38	55	110	115	420	101	380	60	70	2LC0900-8GA	56
		Long	38	80	140	145	420		410			2LC0900-8GA	55
425	3000	Standard	42	75	140	147	470	106	437	70	80	2LC0901-0GA	77
		Long	42	100	170	177	470		467			2LC0901-0GA	77
490	2600	Standard	48	75	140	148	555	131	485	70	90	2LC0901-1GA	116
		Long	48	110	170	178	555		515			2LC0901-1GA	116
565	2300	Standard	65	95	170	178	630	131	543	90	100	2LC0901-2GA	158
		Long	65	120	210	218	630		583			2LC0901-2GA	160
655	2000	Standard	65	110	210	218	736	156	644	100	125	2LC0901-3GA	240
		Long	65	135	250	258	736		684			2LC0901-3GA	240
755	1800	Standard	65	120	210	219	840	170	705	110	140	2LC0901-4GA	321
		Long	65	150	250	259	840		745			2LC0901-4GA	318
887	1500	Standard	65	150	250	251	990	187	835	120	178	2LC0901-5GA	562
		Long	65	170	300	301	990		885			2LC0901-5GA	563

Configurable variants[1)]

» ØD1 Without finished bore
With finished bore.
» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

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

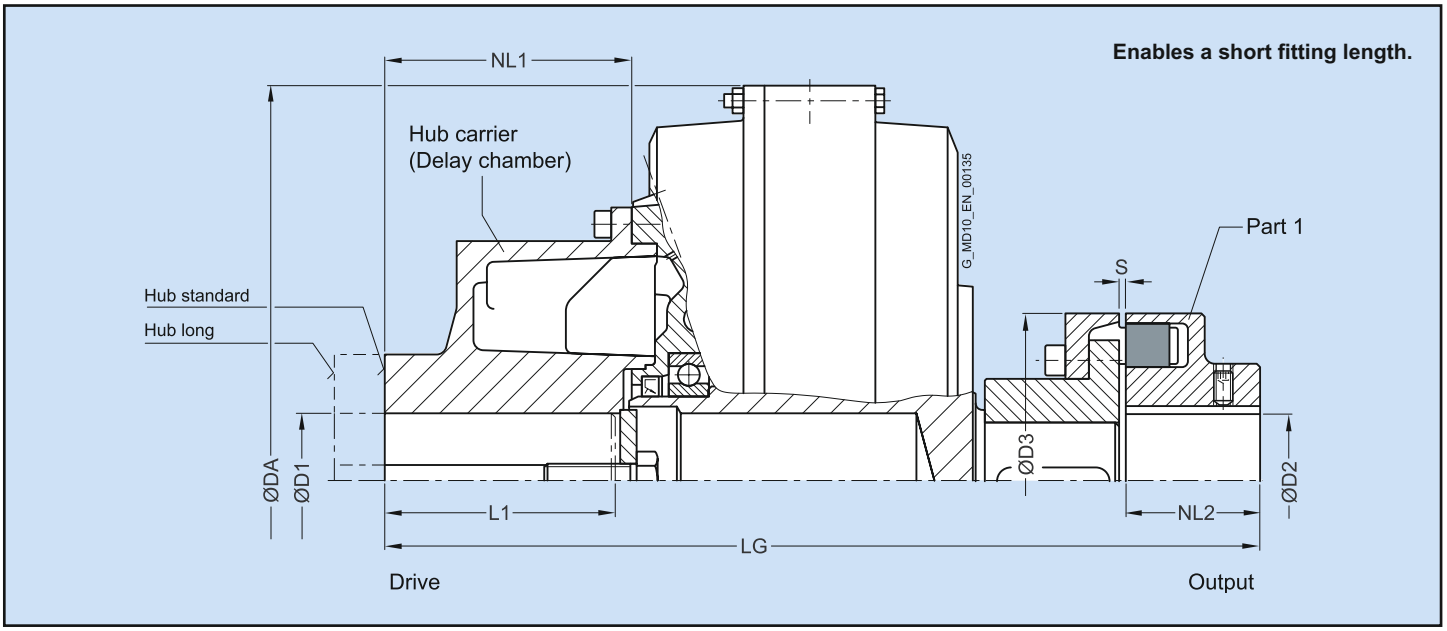
Ordering example

» Motor 110 kW, P_{eff} = 90 kW, n1 = 1470 rpm, maximum output torque $T_{max} = 1.3 \cdot T_{eff}$
» FLUDEX FNO coupling size 425
» Hub carrier: Standard hub bore ØD1 = 75H7 mm with keyway to DIN 6885/1 and retaining screw.
» Seal set FPM.
» Specification of oil filling quantity: 12.4 l, see page 12 of this catalogue.

Ordering Code:

with 160 °C fuse:
2LC0901-1GA90-1AA0-Z L1H+Y90+F08
Plain text to Y90: 12.4 l

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk



Size	Max. Speed n_{Kmax} (rpm)	Hub Carrier	FLUDEX Coupling						N-EUPEX A add-on Coupling				Product Code	Weight m (kg)
			D2 Keyway to DIN 6885		L1	NL1	DA	LG	D2	NL2	Size D3	S		
			min. (mm)	max. (mm)	max. (mm)	(mm)	(mm)	(mm)	max. (mm)	(mm)	(mm)	(mm)		
370	3600	Standard	38	55	110	115	420	454	75	70	180	4^{+2}_{-2}	2LC0900-8GB	68
		Long	38	80	140	145	420	484					2LC0900-8GB	67
425	3000	Standard	42	75	140	147	470	521	85	80	200	4^{+2}_{-2}	2LC0901-0GB	93
		Long	42	100	170	177	470	551					2LC0901-0GB	93
490	2600	Standard	48	75	140	148	555	579	90	90	225	4^{+2}_{-2}	2LC0901-1GB	143
		Long	48	110	170	178	555	609					2LC0901-1GB	143
565	2300	Standard	65	95	170	178	630	648	100	100	250	5^{+3}_{-2}	2LC0901-2GB	193
		Long	65	120	210	218	630	688					2LC0901-2GB	195
655	2000	Standard	65	110	210	218	736	774	120	125	315	5^{+3}_{-2}	2LC0901-3GB	311
		Long	65	135	250	258	736	814					2LC0901-3GB	311
755	1800	Standard	65	120	210	219	840	850	140	140	350	5^{+3}_{-2}	2LC0901-4GB	420
		Long	65	150	250	259	840	890					2LC0901-4GB	417
887	1500	Standard	65	150	250	251	990	1023	160	180	440	8^{+2}_{-3}	2LC0901-5GB	726
		Long	65	170	300	301	990	1073					2LC0901-5GB	727

Configurable variants[1)]

» ØD1 Without finished bore
With finished bore.
» ØD2 Without finished bore
With finished bore.
» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

» The specified coupling weights are effective for maximum bores without oil filling.
» Delivery with oil filling only above -20°C.
» For mass moments of inertia, centroidal distance Y and weight FY, see page 12 of this catalogue.

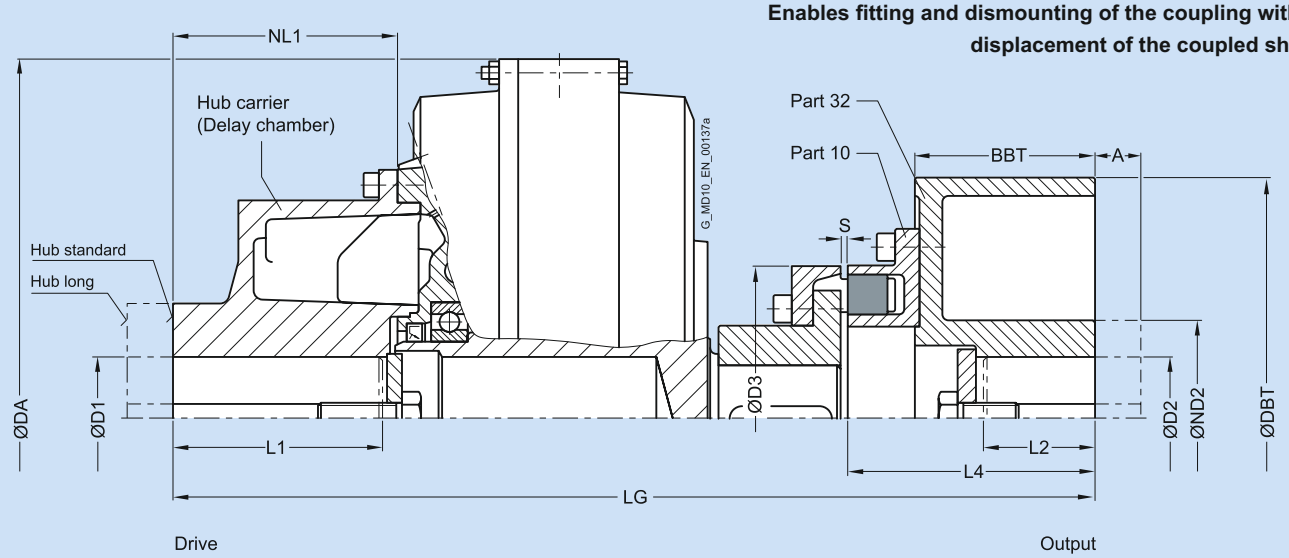
Ordering example

» Motor 750 kW, P_{eff} = 600 kW, n1 = 980 rpm.
» FLUDEX FNO coupling size 887
» Hub carrier: Standard hub bore ØD1 = 40H7 mm with keyway to DIN 6885/1 and retaining screw
» Part 1: Bore OD2 = 120H7 with keyway to DIN 6885/1 and set screw.
» With seal set FPM
» EOC system for temperature monitoring
» Delivery without oil filling with oil filling quantity specification

Ordering Code:

with EOC system:
2LC0901-5GB99-1AA0-Z L1V+M1S+F12+F26+Y90
Plain text Y90: 90.6 l

[1)] To identify complete item numbers see note on previous page 52.



Size	Max. Speed n_{Kmax} (rpm)	Hub Carrier	FLUDEX Coupling						N-EUPEX D add on Coupling			Brake Drum (Part 32)					Product Code	Weight m (kg)
			D2 Keyway to DIN 6885		L1	NL1	DA	LG	Size D3	S	L4	D2	ND2	DBT	BBT	A		
			min. (mm)	max. (mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)		
370	3000	Standard	38	55	110	115	420	542	180	5^{+1}_{-1}	157	80	128	315	118	50	2LC0900-8GD	87
		Long	38	80	140	145	420	572									2LC0900-8GD	86
	2300	Standard	38	55	110	115	420	574			189	90	160	400	150	80	2LC0900-8GD	111
		Long	38	80	140	145	420	604									2LC0900-8GD	110
425	3000	Standard	42	75	140	147	470	604	200	5^{+1}_{-1}	162	80	128	315	118	50	2LC0901-0GD	113
		Long	42	100	170	177	470	634									2LC0901-0GD	113
	2300	Standard	42	75	140	147	470	636			194	90	160	400	150	80	2LC0901-0GD	137
		Long	42	100	170	177	470	666									2LC0901-0GD	137
490	2300	Standard	48	75	140	148	555	689	225	5^{+1}_{-1}	199	90	160	400	150	80	2LC0901-1GD	183
		Long	48	110	170	178	555	719									2LC0901-1GD	183
	1900	Standard	48	75	140	148	555	729			239	110	175	500	190	110	2LC0901-1GD	218
		Long	48	110	170	178	555	759									2LC0901-1GD	218
565	2300	Standard	65	95	170	178	630	756	250	6^{+2}_{-1}	207	100	160	400	150	80	2LC0901-2GD	234
		Long	65	120	210	218	630	796									2LC0901-2GD	236
	1900	Standard	65	95	170	178	630	796			247	110	175	500	190	110	2LC0901-2GD	268
		Long	65	120	210	218	630	836									2LC0901-2GD	270
655	1900	Standard	65	110	210	218	736	907	315	6^{+2}_{-1}	257	110	175	500	190	110	2LC0901-3GD	377
		Long	65	135	250	258	736	947									2LC0901-3GD	377
	1500[2)]	Standard	65	110	210	218	736	953			303	140	224	630	236	100	2LC0901-3GD	437
		Long	65	135	250	258	736	993									2LC0901-3GD	437
755	1500[2)]	Standard	65	120	210	219	840	1018	350	6^{+2}_{-1}	307	140	224	630	236	100	2LC0901-4GD	541
		Long	65	150	250	259	840	1058									2LC0901-4GD	538
887	1300[3)]	Standard	65	150	250	251	990	1190		8^{+2}_{-2}	347	160	265	710	265	100	2LC0901-5GD	892
		Long	65	170	300	301	990	1240									2LC0901-5GD	893

Configurable variants[1)]

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

Notes

» The specified coupling weights are effective for maximum bores without oil filling, without hub prolongations "A" but with set screw.
» L2 denotes the shaft insertion depth. In the case of shaft ends deviating from DIN 748/1 long, the insertion depth must be specified in plain text with "Y29".
» Delivery with oil filling only above -20°C.
» For mass moments of inertia, centroidal distance Y and weight FY, , see page 12 of this catalogue.

Ordering example

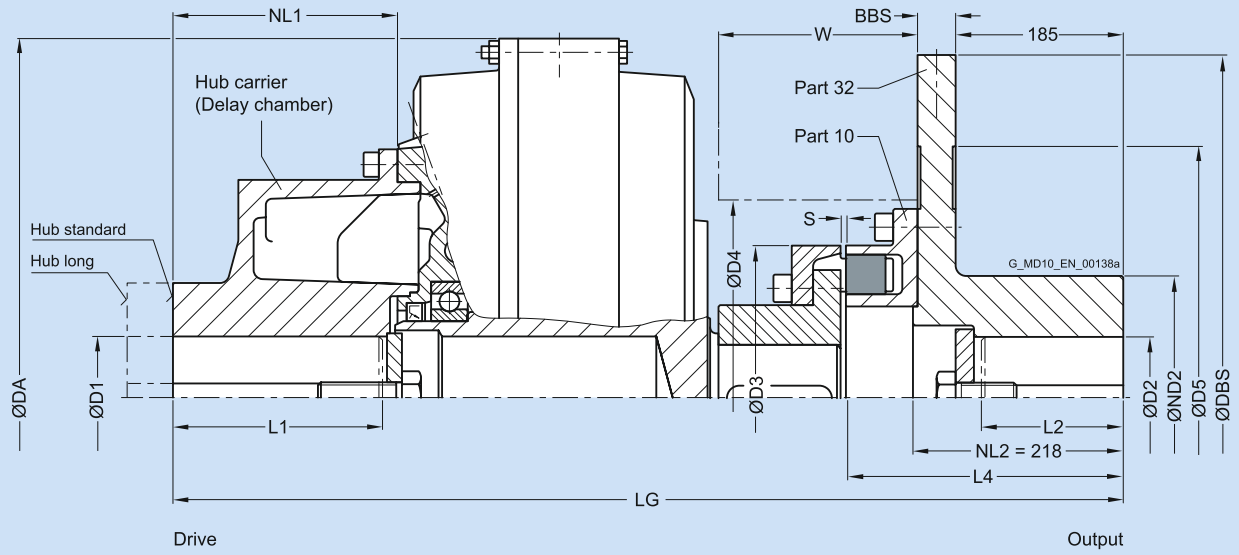
» Motor 55 kW, Peff = 45 kW, n1 = 1470 rpm.
» FLUDEX FNDB coupling size 370, standard type.
» Hub carrier: Long hub bore ØD1 = 65H7 mm with keyway to DIN 6885/1 and set screw.
» Brake drum (Part 32): Ø315 x 118, bore ØD2 = 80H7 mm with keyway to DIN 6885/1 and retaining screw.
» Seal set NBR.
» Delivery without oil filling, no oil filling quantity specification.

Ordering Code:

2LC0900-8GD99-2AA0-Z L1F+M1J

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

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



Size	Max. Speed	Hub Carrier	FLUDEX Coupling						N-EUPEX D add on Coupling			Brake Drum (Part 32)					Space Dimensions		Product Code	Weight
	n_{Kmax}		D2 Keyway to DIN 6885		L1	NL1	DA	LG	Size D3	S	L4	D2	ND2	DBS	BBS	D5	D4	W		m
	(rpm)		min. (mm)	max. (mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(kg)
370	3000	Standard	38	55	110	115	420	642	180	5^{+1}_{-1}	257	80	145	450	30	300	222	130	2LC0900-8GE	116
		Long	38	80	140	145	420	672											2LC0900-8GE	115
425	2600	Standard	42	75	140	147	470	704	200	5^{+1}_{-1}	262	80	160	500	30	340	250	144	2LC0901-0GE	155
		Long	42	100	170	177	470	734											2LC0901-0GE	155
490	2300	Standard	48	75	140	148	555	757	225	5^{+1}_{-1}	267	90	160	560	30	370	276	162	2LC0901-1GE	212
		Long	48	110	170	178	555	787											2LC0901-1GE	212
565	2100	Standard	65	95	170	178	630	824	250	6^{+2}_{-1}	275	100	175	630	30	440	317	179	2LC0901-2GE	279
		Long	65	120	210	218	630	864											2LC0901-2GE	281
655	2000	Standard	65	110	210	218	736	935	315	6^{+2}_{-1}	285	100	175	630	30	440	385	200	2LC0901-3GE	388
		Long	65	135	250	258	736	975											2LC0901-3GE	388
755	1800	Standard	65	120	210	219	840	1000	350	6^{+2}_{-1}	289	140	220	710	30	520	435	219	2LC0901-4GE	518
		Long	65	150	250	259	840	1040											2LC0901-4GE	515
887	1500	Standard	65	150	250	251	990	1144	440	8^{+2}_{-2}	301	140	220	800	30	610	525	268	2LC0901-5GE	828
		Long	65	170	300	301	990	1194											2LC0901-5GE	829

Configurable variants[1)]

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

Notes

» The specified coupling weights are effective for maximum bores without oil filling.
» L2 denotes the shaft insertion depth. In the case of shaft ends deviating from DIN 748/1 long, the insertion depth must be specified in plain text with "Y29".
» Delivery with oil filling only above -20°C.
» For mass moments of inertia, centroidal distance Y and weight FY, see page 12 of this catalogue.

Ordering example

» Motor 37 kW, P_{eff} = 30 kW, n1 = 1470 rpm.
» FLUDEX FNDS SB coupling size 370, standard type.
» Hub carrier: Long hub bore ØD1 = 55H7 mm with keyway to DIN 6885/1 and set screw.
» Brake disk (Part 32): bore ØD2 = 75H7 mm with keyway to DIN 6885/1 and retaining screw.
» With preservation suitable for indoor storage
» Delivery without oil filling, no oil filling quantity specification.

Ordering Code:

with standard preservation:
2LC0900-8GE99-1CA0-Z L1D+M1H

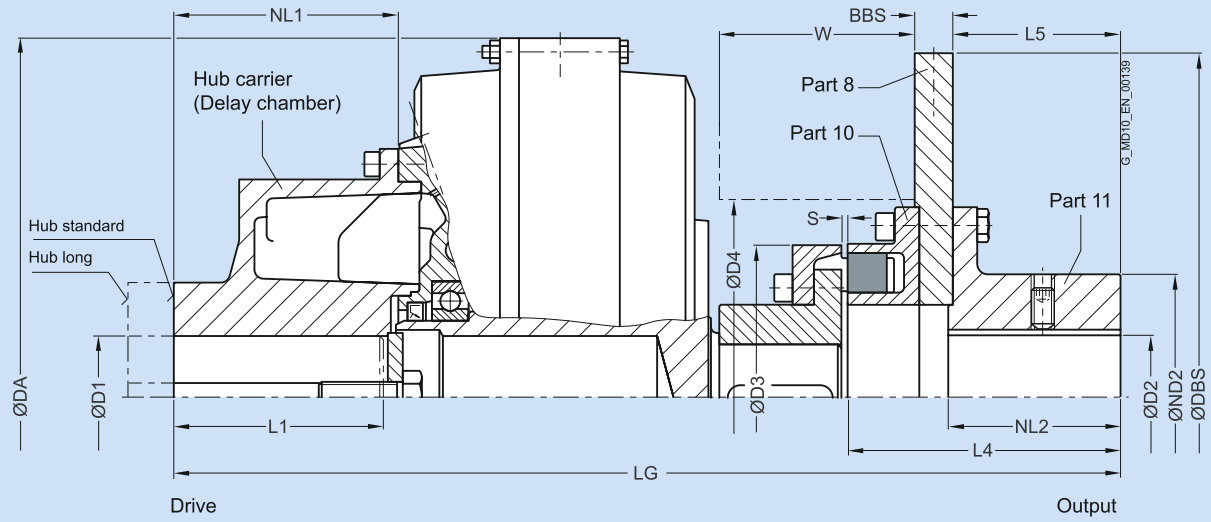
with preservation 6 months:
2LC0900-8GE99-1CA0-Z L1D+M1H+B31

with preservation 24 months:
2LC0900-8GE99-1CA0-Z L1D+M1H+B28

with preservation 36 months:
2LC0900-8GE99-1CA0-Z L1D+M1H+B34

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

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



Size	Max. Speed	Hub Carrier	FLUDEX Coupling						N-EUPEX D add on Coupling			Brake Drum (Part 32)						Space Dimensions		Product Code	Weight
	n_{Kmax}		D2 Keyway to DIN 6885		L1	NL1	DA	LG	Size D3	S	L4	D2	NL2	ND2	DBS	BBS	D5[2]	D4	W		m
	(rpm)		min. (mm)	max. (mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	max. (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(kg)
370	3600	Standard	38	55	110	115	420	555	180	5^{+1}_{-1}	170	80	118	130	355	16	115	222	127	2LC0900-8GF	87
		Long	38	80	140	145	420	585												2LC0900-8GF	86
425	3000	Standard	42	75	140	147	470	617	200	5^{+1}_{-1}	175	80	118	130	355	16	115	250	141	2LC0901-0GF	115
		Long	42	100	170	177	470	647												2LC0901-0GF	115
490	2600	Standard	48	75	140	148	555	670	225	5^{+1}_{-1}	180	85	118	135	400	16	115	276	159	2LC0901-1GF	166
		Long	48	110	170	178	555	700												2LC0901-1GF	166
565	2300	Standard	65	95	170	178	630	737	250	6^{+2}_{-1}	188	100	118	160	450	16	115	317	176	2LC0901-2GF	224
		Long	65	120	210	218	630	777												2LC0901-2GF	226
655	2000	Standard	65	110	210	218	736	848	315	6^{+2}_{-1}	198	100	118	170	500	16	115	385	197	2LC0901-3GF	347
		Long	65	135	250	258	736	888												2LC0901-3GF	347
755	1800	Standard	65	120	210	219	840	961	350	6^{+2}_{-1}	250	140	164	225	630	20	160	435	215	2LC0901-4GF	495
		Long	65	150	250	259	840	1001												2LC0901-4GF	492
887	1500	Standard	65	150	250	251	990	1105	440	8^{+2}_{-2}	262	140	164	225	710	20	160	525	264	2LC0901-5GF	799
		Long	65	170	300	301	990	1155												2LC0901-5GF	800

Configurable variants[1)]

» ØD1 Without finished bore
With finished bore.
» ØD2 Without finished bore
With finished bore.
» Delivery without oil filling.
Delivery with oil filling with specification of oil filling quantity in litres.
Delivery without oil filling with oil filling quantity specification in litres.

Notes

» The specified coupling weights are effective for maximum bores without oil filling.
» L2 denotes the shaft insertion depth. In the case of shaft ends deviating from DIN 748/1 long, the insertion depth must be specified in plain text with "Y29".
» Delivery with oil filling only above -20°C.
» For mass moments of inertia, centroidal distance Y and weight FY, see page 12 of this catalogue.

Ordering example

» Motor 200 kW, P_{eff} = 160 kW, n1 = 1470 rpm.
» FLUDEX FNDS HB coupling size 490.
» Hub carrier: Long hub bore ØD1 = 110H7 mm with keyway to DIN 6885/1 and set screw.
» Hub (Part 11): bore ØD2 = 80H7 mm with keyway to DIN 6885/1 and retaining screw.
» Fitting position: horizontal/vertical motor underneath (MU)
» Delivery without oil filling, no oil filling quantity specification.

Ordering Code:

in horizontal version:
2LC0901-1GF99-2AA0-Z L1Q+M1J

in vertical version (MU):
2LC0901-1GF99-2AA0-Z L1Q+M1J+F14

[1)] To identify complete item numbers specifying the available finish boring options and further order options, please contact jbj Techniques Ltd. technical office, telephone: +44 (0)1737 767493 or email: info@jbj.co.uk

[2)] Hub shortening possible, clearly specify L5 size.

FLENDER

This assignment is valid for a maximum starting torque $T_{max} = 1.3 \cdot T_{eff}$ and mineral oils with a viscosity of VG 22/VG 32.
If other operating fluids are used, or with drive via the hollow shaft or $T_{max} \neq 1.3 \cdot T_{eff}$, or $T_{max} \neq 1.5 \cdot T_{eff}$, changed filling quantities must be observed!

Sizes 370, 490, 655 and 887

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

This assignment is valid for a maximum starting torque $T_{max} = 1.3 \cdot T_{eff}$ and mineral oils with a viscosity of VG 22/VG 32.
If other operating fluids are used, or with drive via the hollow shaft or $T_{max} \neq 1.3 \cdot T_{eff}$, or $T_{max} \neq 1.5 \cdot T_{eff}$, changed filling quantities must be observed!

Sizes 425, 565 and 755										
P_{eff}	Speed in rpm									Size
	600	740	890	980	1180	1470	1770	2300	2950	
kW	Oil filling quantity in l									
2.2	8.5									
3	9.7									
4	10.7	8.6								
5.5	12	9.7								
7.5	12.5	10.7	8.8	7.7						
11	22.6	12.2	10.2	9.2						
15	25.2	12.5	11.2	10.2	8.3					
18	26.6	21.4	12	10.8	8.9					
22	28.6	23.1	12.5	11.6	9.6					
30	44.1	25.7	21.1	12.5	10.7	8.5				
37	46.8	27.5	22.9	20.5	11.4	9.2	7.1			
45	49.5	29	24.5	22	12.3	9.8	7.8			
55	52.4	29	26.1	23.7	18.7	10.5	8.6			
75	58.5	47.8	29	26.3	21.7	11.6	9.7	6.9		
90	63.8	50.5	29	27.9	23.2	12.4	10.3	7.4		
110		53.5	45.6	29	24.9	19	11	8.3		
132		57	47.9	44.3	26.3	20.9	11.7	8.9	6.6	425
160		62	50.8	46.7	28.1	22.5	17.4	9.6	6.9	
200		67	54.2	49.9	42.1	24.3	19.5	10.3	7.6	
250			59	53.1	45.3	26.2	21.6	16	8.6	
315			66.2	57.6	48.3	28.3	23.5	16.7	9.3	
350				60.3	49.9	40.8	24.4	17.4		565
400				64.4	51.8	42.6	25.5	18.5		
500					55.4	45.7	37.8	20.8		
600					59.8	48.1	40.6	22.3		
750						51.3	43.7			755
900						54.2	46.1			
1100							48.8			
1200							50.1			

Flexible Elements for N-Eupex add-on Coupling

Series	Size	Type	N-EUPEX Coupling Size	Number of Flexibles per Set	Product Code (FFA) for One Set of Flexibles
FA	222	FAK 1); FAKB 1)	95	6	FFA:000001194870
		Other types	110	6	FFA:000001194871
	297	FAK 1); FAKB 1)	125	6	FFA:000001194872
		FAK 2); FAKB 2)	125	6	FFA:000001194873
		Other types	125	6	FFA:000001194873
	342	All types	140	6	FFA:000001194874
	395	FAD 1); FAE 1); FADB 1)	225	8	FFA:000001194875
		FAD 2); FAE 2); FADB 2)	225	8	FFA:000001194876
		Other types	225	8	FFA:000001194876
	450	FAD 1); FAE 1); FADB 1)	250	8	FFA:000001194877
		FAD 2); FAE 2); FADB 2)	250	8	FFA:000001194878
		Other types	250	8	FFA:000001194878
	516	FAD 1); FADB 1)	315	9	FFA:000001194879
		FAD 2); FADB 2)	315	9	FFA:000001194880
		Other types	315	9	FFA:000001194880
	590	All types until 2010	315	9	FFA:000001194879
		All types from 2011 on	315	9	FFA:000001194880
FG/FV	370	All types	180	8	FFA:000001194881
	425		225	8	FFA:000001194876
	490		250	8	FFA:000001194878
	565		280	8	FFA:000001194882
	655		350	9	FFA:000001194883
	755		400	10	FFA:000001194884
	887		440	10	FFA:000001194885
FN	370	FNDB ØDBT = 400[3)]	200	8	FFA:000001194886
		All types	180	8	FFA:000001194881
	425	All types	200	8	FFA:000001194886
	490	FNDB ØDBT = 500[3)]	250	8	FFA:000001194878
		All types	225	8	FFA:000001194876
	565	All types	250	8	FFA:000001194878
	655		315	9	FFA:000001194880
	755		350	9	FFA:000001194883
	887		440	10	FFA:000001194885

[1)] For couplings up to and including year of construction 2003.
[2)] For couplings from year of construction 2004.
[3)] For couplings up to and including year of construction 2007.

Thermal Equipment

FLUDEX Size	Thread	Part Number	Fuse Element	Response Temperature	Marking	Product Code (FFA) for One Unit
222	M10	103 + 104[1)] 203 + 204[1)]	Fusible safety plug	110 °C	yellow	FFA:000001194896
				140 °C	red	FFA:000001194897
				160 °C	green	FFA:000001194898
	M10	153 + 104[1)]	Oil filler plug	–		FFA:000001194894
297	M10	153 + 104[1)]	Oil filler plug	–		FFA:000001194894
297 - 887	M18 x 1.5	103[2)] 203[2)]	Fusible safety plug	110 °C	yellow	FFA:000001250338
				140 °C	red	FFA:000001250339
				160 °C	green	FFA:000001250380
	M18 x 1.5	110[2)] 210[2)]	Thermal switch	110 °C		FFA:000001361795
				140 °C		FFA:000001361796
	M18 x 1.5	153[2)] 163[2)]	Oil filler plug (except size 887) Screw plug	–		FFA:000001337653
	–	301	Cut-out device	–		FFA:000000652020
	–	142 + 104[1)]	EOC transmitter with seal	125 °C		FFA:000001194899
	–	245	EOC sensor	–		FFA:000000361460
	–	244	Evaluation instrument EWD 20 to 250 V AC/DC	–		FFA:000001205294
370 - 755	M10	173 + 174[1)]	Oil drain plug - delay chamber	–		FFA:000001194894
887	M30 x 1.5	153 + 154[1)]	Oil filler plug (up to and including year of construction 2007)	–		FFA:000001194893
		153[2)]	Oil filler plug (from year of construction 2008)	–		FFA:000001349554
	M16	173 + 174[1)]	Oil drain plug - delay chamber	–		FFA:000001194895

[1)] With separate seal ring.
[2)] With built-in ring seal.

Sealing & Rolling Bearing Sets for the FA Series (except type FAR)

FLUDEX Size	Up to and Including Year of Construction	From Year of Construction	Seal Set Material	Product Code (FFA) for One Unit	Product Code (FFA) for One Unit
222	2000		NBR	FFA:000001194900	FFA:000001194800
		2001	NBR	FFA:000001194901	FFA:000001194801
			FPM	FFA:000001194902	
297	2000	2001	NBR	FFA:000001194903	FFA:000001194802
			FPM	FFA:000001194904	
			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	

Flexible Elements for N-Eupex add-on Coupling

FLUDEX Size	Type	Up to & Including year of Construction	From Year of Construction	Seal Set Material	Product Code (FFA) for 1 Seal Set	Product Code (FFA) for 1 Roller Bearing Set
222	2 · SPZ 100	2000		NBR	FFA:000001194917	FFA:000001194809
			2001	NBR	FFA:000001194918	FFA:000001194810
				FPM	FFA:000001194919	
	3 · SPZ 160		2001	NBR	FFA:000001194920	FFA:000001194811
				FPM	FFA:000001194921	
297	5 · SPZ 140	2000		NBR	FFA:000001194922	FFA:000001194812
				FPM	FFA:000001194923	
	7 · SPZ 140	2000		NBR	FFA:000001194924	FFA:000001194813
				FPM	FFA:000001194925	
	5 · SPZ 150 4 · SPZ 190		2001	NBR	FFA:000001194926	FFA:000001194814
				FPM	FFA:000001194927	
	5 · SPZ 224		2001	NBR	FFA:000001194928	
				FPM	FFA:000001194929	
342	5 · SPZ 180			NBR	FFA:000001194930	FFA:000001194815
				FPM	FFA:000001194931	
	7 · SPZ 180	2000		NBR	FFA:000001194932	FFA:000001194816
				FPM	FFA:000001194933	
395	5 · SPZ 224			NBR	FFA:000001194934	FFA:000001194817
				FPM	FFA:000001194935	
	7 · SPZ 224	2000		NBR	FFA:000001194936	FFA:000001194818
				FPM	FFA:000001194937	
	7 · SPZ 236		2001	NBR	FFA:000001194938	FFA:000001194819
				FPM	FFA:000001194939	
	7 · SPZ 280		2001	NBR	FFA:000001194938	
				FPM	FFA:000001194939	
450	8 · SPZ 250	2000 (ØD1 ≤ 75)		NBR	FFA:000001194940	FFA:000001194820
				FPM	FFA:000001194941	
		ØD1 ≤ 75	2001	NBR	FFA:000001194942	FFA:000001194821
				FPM	FFA:000001194943	
		ØD1 = 73.025 ØD1 > 75	2001	NBR	FFA:000001194944	FFA:000001194822
				FPM	FFA:000001194945	
	10 · SPZ 250	2000		NBR	FFA:000001194946	FFA:000001194823
				FPM	FFA:000001194947	
516	10 · SPZ 315	2000		NBR	FFA:000001194948	FFA:000001194824
				FPM	FFA:000001194949	
			2001	NBR	FFA:000001194950	FFA:000001194825
				FPM	FFA:000001194951	
	12 · SPZ 315	2000		NBR	FFA:000001194952	FFA:000001194826
				FPM	FFA:000001194953	
590	12 · SPZ 315	2000		NBR	FFA:000001194954	FFA:000001194827
				FPM	FFA:000001194955	
			2001	NBR	FFA:000001194956	FFA:000001194828
				FPM	FFA:000001194957	

Seal & Roller Bearing Sets for the FG/FV/FN Series

FLUDEX Coupling Series	FLUDEX Coupling Size	Year of Construction	Additional Bore Specifications	Seal Set Material	Product Code (FFA) for 1 Seal Set	Product Code (FFA) for 1 Rolling Bearing Set
FG	370	Up to & including of construction 2000		NBR	FFA:000001194958	FFA:000001194850
				FPM	FFA:000001194959	
		From Year of construction 2001		NBR	FFA:000001194958	FFA:000001194851
				FPM	FFA:000001194959	
	425			NBR	FFA:000001194962	FFA:000001194852
				FPM	FFA:000001194963	
	490			NBR	FFA:000001194966	FFA:000001194853
				FPM	FFA:000001194967	
	565			NBR	FFA:000001194970	FFA:000001194854
				FPM	FFA:000001194971	
	655		ØD2 ≤ 100	NBR	FFA:000001194974	FFA:000001194855
				FPM	FFA:000001194975	
			ØD2 > 100	NBR	FFA:000001194976	FFA:000001194856
				FPM	FFA:000001194977	
	755		ØD2 ≤ 110	NBR	FFA:000001194982	FFA:000001194857
				FPM	FFA:000001194983	
			ØD2 > 110	NBR	FFA:000001194984	FFA:000001194858
				FPM	FFA:000001194985	
	887			FPM	FFA:000001194993	FFA:000001194860
FV	370	Up to & including of construction 2000		NBR	FFA:000001194960	FFA:000001194850
				FPM	FFA:000001194961	
		From Year of construction 2001		NBR	FFA:000001194960	FFA:000001194851
				FPM	FFA:000001194961	
	425			NBR	FFA:000001194964	FFA:000001194852
				FPM	FFA:000001194965	
	490			NBR	FFA:000001194968	FFA:000001194853
				FPM	FFA:000001194969	
	565			NBR	FFA:000001194972	FFA:000001194854
				FPM	FFA:000001194973	
	655		ØD2 ≤ 100	NBR	FFA:000001194978	FFA:000001194855
				FPM	FFA:000001194979	
			ØD2 > 100	NBR	FFA:000001194980	FFA:000001194856
				FPM	FFA:000001194981	
	755		ØD2 ≤ 110	NBR	FFA:000001194986	FFA:000001194857
				FPM	FFA:000001194987	
			ØD2 > 110	NBR	FFA:000001194988	FFA:000001194858
				FPM	FFA:000001194989	
	887			FPM	FFA:000001194992	FFA:000001194860
FN	370	Up to & including of construction 2000		NBR	FFA:000001194960	FFA:000001194850
				FPM	FFA:000001194961	
		From Year of construction 2001		NBR	FFA:000001194960	FFA:000001194851
				FPM	FFA:000001194961	
	425			NBR	FFA:000001194964	FFA:000001194852
				FPM	FFA:000001194965	
	490			NBR	FFA:000001194968	FFA:000001194853
				FPM	FFA:000001194969	
	565			NBR	FFA:000001194972	FFA:000001194854
				FPM	FFA:000001194973	
	655			NBR	FFA:000001194978	FFA:000001194855
				FPM	FFA:000001194979	
	755			NBR	FFA:000001194990	FFA:000001194859
				FPM	FFA:000001194991	
	887			FPM	FFA:000001194992	FFA:000001194860

quality products for mechanical & fluid power

Getting the most out of your machinery often depends on close integration between all components. An organisation that manufactures and integrates all the diverse components of a drivetrain provides the experience to help you select the best component combination for your application. jbj Techniques' in-house design team and manufacturing facility provide tailored solutions for your applications at competitive prices with quick delivery.

The following examples are a simplistic view of how jbj Techniques assists customers.

Hydraulic Adaptors
Designed primarily to allow the close coupling of hydraulic pumps to a variety of prime movers, such as diesel / petrol engines, electric, air or hydraulic motors, they can also be used in the connection from prime mover to alternative driven parts i.e. gear boxes, generators, water or vacuum pumps etc. An additional range of engine front PTO adaptors, which provide additional connection between the engine pulley and the driven part are also available.

The kit comprises of a bellhousing and flexible drive coupling that are fully machined to suit the driving and driven components. These can be to suit either shaft to shaft, flange (flywheel) to shaft or even flange to flange connections.

Getting the most out of your equipment will demand close integration between all components. In specifying jbj Techniques as your preferred supplier, you will have selected a company with the experience to specify, manufacture and integrate all of the diverse components that will ensure the best component combination for your application.

jbj's in house design team and manufacturing facility provide tailored solutions for your applications at competitive pricing and on-time deliveries.

Pump shaft alignment is key to preventing unnecessary wear and damage to the pump shaft seal and bearing. Improper alignment may lead to premature pump failure.

Also to be considered are unwanted torsional resonant frequencies in the system which can quickly cause damage to components in the drivetrain and reduce system life and performance. Improper pump installation can lead to premature failure, increased maintenance costs and reduced production levels of final product.

jbj Techniques can advise on the correct installation of hydraulic pumps into Industrial / mobile / marine / machine tool / agricultural / offshore industries and can specify complete driveline systems from their extensive range of components which are available from stock or manufactured to order, albeit simple or complex, standard or bespoke.

Electric motor – Hydraulic pump adaptors (safe area)
jbj Techniques Limited offer the most comprehensive range of bellhousings in Europe. Designed to connect electric motors with frame size IEC D56 - D400 (0.06kW – 750kW) and can be compatible with electric motor 'B5' or 'B14' flange configurations. Accompanying the metric frame units above is a complete range of mountings to suit Nema and imperial frame motors with 'C' face or 'D' flange fitments.

With fully machined torsionally flexible couplings, or torsionally rigid couplings available, jbj ensure the most suitable combination is selected for the application in hand. As an example spider couplings are available in various materials including aluminium, grey cast iron, nodular iron, steel and stainless steels and can be finish machined with parallel, taper or splined bores to DIN, SAE, ANSI or ISO standards.

Bellhousings can be manufactured in aluminium or cast iron material as standard, however, units can be produced in a variety of exotic materials on request.

The aluminium product range is produced in either monoblock or composite formats giving great flexibility in design and allows for early delivery time, often with same or next day delivery possibilities.

For applications where low noise levels are a

requirement then a complete range of anti-vibration and noise reduction components add to the range.

Electric motor – Hydraulic pump adaptors (Hazardous Area)
Designed to meet the exacting safety standards of the offshore and chemical process industries, jbj Techniques produce adaptor kits certificated to Directive 2014/34/EU II2GD-IM2-TX -50 C< Service Temp < +105 C. Harmonised standards BS EN 1127:1, BS EN 13463:1, BS EN13463:5, BS EN 50303, BS EN 1834-1,BS EN 1834-3.

Generally manufactured in Cast or Nodular iron, bellhousings can be produced in steel, stainless steel or alternative exotic materials on customer request.

Couplings supplied for these applications are the jbj Techniques 'JXL' pin and bush range which provide an anti-static and flameproof drive which meet zone 1 area requirements, conforming to all of the above standards.
Also available are spider and gear couplings which are certified to zone 2 standards. (Contact jbj Techniques for details).

An important development of equipment for use within hazardous areas is the wet mount series of bellhousings. Commissioned to research and develop a product that would control the high temperature generated by a piston pump shaft seal when working within cycling applications. A little considered issue is the frictional heat generated at the shaft seal when the application requires the pump to cycle between different pressures causing the seal temperature to increase. This process will often take the seal temperature out and above the levels required by the relevant ATEX standards requirement. This specially designed assembly allows a pumped cooling flow to be passed over the seal face and through an auxiliary cooler, this in turn reduces the seal face temperature which can be maintained at an acceptable level. With a vast array of components to select from, jbj are well placed to provide all required components to support the required cooling system.

Diesel Engine – Hydraulic pump adaptors
A complete range of bellhousing and couplings exist for the connection of a diesel engine flywheel to a specified driven component, be it an oil hydraulic pump, water pump, generator or similar device. With the bellhousing available in various materials to suit all application areas. With a standard range to connect Diesel engines with SAE dimensions from SAE '6' to SAE '0' jbj are well placed to satisfy the majority of customer requirements. Couplings to complete the assembly are available in either torsionally flexible or torsionally rigid design ad can be supplied to suit SAE flywheel dimensions from SAE 6.5" to SAE 18".

For hydraulic pumps to be mounted to engines that do not conform to SAE dimensions, we offer a full range of assembly parts, some of which (but not all) are shown here » for diesel engines

All bellhousings within this range can be finished machined to accept any, piston, vane or gear pump interfaces requested by customer.

As with the electric motor range of product jbj offer complete solutions for ATEX environments, using our well proven 'JXL' coupling range which has standard design to connect to the engine flywheel.
Directive 2014/34/EU II2GD-IM2-TX -50°C ≤ Service Temp ≤ +105°C.
Harmonised Standards: BS EN 1127:1 BS EN 13463:1 BS EN 13463:5 BS EN 50303.

Petrol engine – Hydraulic pump adaptors
Petrol engine adaptors have been developed for use with industrial petrol engines. Design exists to suit Honda, Briggs and Stratton, Kawasaki, Kubota, Hatz, Mag, Robin, Suzuki, Winsconsin, to name but a few, all adaptors can be finished to accept most hydraulic pumps. Adaptors to suit engine crankshaft drives and for vertical mounting are available on request.

Small Individual Components to Large Combinations

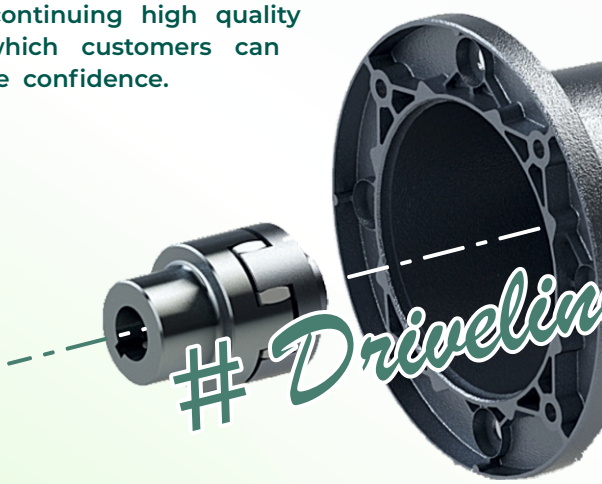
"ensuring a continuing high quality service in which customers can have complete confidence."

jbj Techniques is a specialist supplier of high-quality products for the mechanical power transmission and fluid power sectors. The company offers a high level of in-house expertise plus a huge selection of products to meet a very broad range of customer applications.
From specification, through technical advice and manufacture to after-sales support, jbj Techniques provides a comprehensive and valued service to the power transmission and hydraulics industries. The company fields a UK-wide team of technical sales engineers to ensure that the business is close to its customers, and it enjoys excellent associations with European manufacturers, acting as sole UK distributor in many cases.

jbj's team is recognised for its expertise in the selection and configuration of hydraulic and mechanical transmission systems. Able to draw on an extensive product range that provides the building blocks for bespoke systems both large and small, the in-house design team offers a complete service, ranging from an assessment of customer requirements to full technical backup, including product specification, CAD based system design, system build and certification. Moreover customers can take advantage of jbj's own machine-shop facilities and skilled engineers to guarantee quality and control costs.

jbj Techniques provides one of the widest ranges of couplings available within the UK; mechanical power transmission couplings for a vast range of applications. Ranging from miniature couplings, all steel gear couplings, flexible spider couplings, shaft couplings, torque limiting couplings, disc and grid type couplings, ATEX compliant and shaft locking devices. Magnetic couplings for power transmission between hermetically sealed areas. However as extensive as the selection is, couplings make up a fraction of jbj's portfolio. As power transmission specialists the company stock and provide gearboxes, clutches, pumps, hydraulic motors, flow meters, fluid power accessories including: cooling & heat exchange products, reservoirs, pipe flanges, seals and level indicators, as well as a variety of bellhousings and engine adaptors, to name just a few of the product categories.

jbj Techniques Limited is proud of it's relationship and reputation with customers and suppliers. The core client base is stable and loyal, which is testament to the quality of service provided by the company. A similar relationship exists with suppliers, ensuring a continuing high quality service in which customers can have complete confidence.



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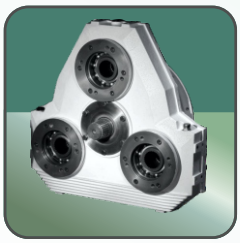

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quality products for mechanical & fluid power

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