Rexnord Modulflex Torsionally Stiff Disc Couplings

Why Choose Rexnord Modulflex Disc Couplings?

Why Choose Rexnord?
When it comes to providing highly engineered products that improve productivity and efficiency for industrial applications worldwide, Rexnord is the most reliable in the industry. Our commitment to customer satisfaction and superior value extends to every area of our business.

Delivering Lowest Total Cost of Ownership
The highest quality products are designed to help prevent equipment downtime, increase productivity and deliver dependable operation.

Valuable Expertise
An extensive product offering is accompanied by global sales specialists, customer service and maintenance support teams, available anytime.

Solutions to Enhance Ease of Doing Business
Our commitment to operational excellence means you benefit from getting the right products to the right place at the right time.

Patent-pending Design

Rexnord® has applied for a patent for this new innovative design. The simplified disc and bolt connection with its slotted bush is a ground-breaking development, and helps bring greater efficiency and improved productivity to customers.

Reliable Performance

Rexnord Modulflex® Coupling Disc Packs are installed under compression which allows reciprocating loads. The simplified disc pack connection and improved precision in disc and hardware connection increases the dynamic safety inside the disc joint.

Meet Several Application Requirements

The coupling design allows additional components like extended spacers, special adapters and composite material spacers to be added to meet application needs. Rexnord Modulflex Disc Couplings comply with the rules of approval societies such as DNV, Lloyd's Register and American Bureau of Shipping (ABS) and are ATEX (II2G / II2D and M2 T6) compliant when specified.

Low Equipment Lifetime Cost

Rexnord Modulflex Disc Couplings require no lubrication and the disc pack modules allow visible inspection and are designed for infinite dynamic load life. These couplings are easy to install, and, when required, the modules are simple to replace-in-place.

Rexnord Modulflex 92x5 Disc Couplings — Modular design for your application

With decades of experience in the coupling business, the Rexnord Modulflex Disc Coupling design offers a variety of solutions for the most challenging applications. You will find our couplings in marine drive shafts, compressors, large industrial fans, and more, in the automotive, marine, metal, and energy industries.

Torsionally stiff couplings for your application

- **Reliable performance** — Rexnord Modulflex 92x5 Coupling Disc Packs are installed under compression, allowing reciprocating loads. The simplified disc pack connection and improved precision in disc and hardware connection increases the dynamic safety inside the disc joint.
- **Meets several application requirements** — The coupling design allows additional components like extended spacers, special adapters and composite material spacers to be added to meet application needs. Rexnord Modulflex 92x5 Disc Couplings comply with the rules of approval societies such as DNV GL Business Assurance, Lloyd's Register (LR) and American Bureau of Shipping (ABS) for marine applications.
- **Low equipment lifetime cost** — Rexnord Modulflex 92x5 Disc Couplings require no lubrication and the disc pack modules, allowing visual inspections, are designed for infinite dynamic load life. These couplings are easy to install, and when required, the modules are simple to replace-in-place.

Features and benefits

- Disc packs are built under compression allowing reciprocating torques at high speeds
- High-precision manufacturing methods eliminate backlash and joint vibration
- Modular design allows customized couplings that are easy to install
- High-strength stainless steel disc packs, designed for infinite dynamic load life even with reciprocating forces
- Flexible disc design offers angular, radial and axial misalignment capability
- Are EN 10204-3.2 and ATEX II 2GD c T6 compliant when specified

For replace-in-place and adapted to existing connecting equipment applications

Type 9205-XX-0000*

- Single flexible element design
- Factory assembled disc pack
- Base for spacer and long spacer coupling configurations
- Element can be used with finished bore or Rexnord Koniclamp® hub configurations
- Special materials available (Aluminum 9805-XX-0000*)

Type 9205-XX-0500*

- Double flexible element design
- Factory assembled disc pack
- Base element for short distance between shaft end connections
- Element can be used with finished bore or Rexnord Koniclamp hub configurations
- Special materials available (Aluminum 9805-XX-0500*)

**"XX" represents the coupling size. When placing an order, please replace the "XX" with your specified coupling size.*

For applications where the overall shaft-to-shaft spacing is minimal

Type 9215-XX-3500*

- Double flexible element design with finished bore hubs
- Short distance between shaft end connections
- Hubs can be machined for bore and key, or hydraulic bore shaft connections (Type 9215-XX-3500*)
- Rexnord Koniclamp keyless shaft connection (Type 9215-XX-4500*)
- Application examples: test bench, roller tables

Type 9215-XX-4500*

For applications with intermediate spacer

Type 9235-XX-3000*

- Spacer coupling design with finished bore hubs (Type 9235-XX-3000*)
- Spacer coupling design with Rexnord Koniclamp hubs (Type 9235-XX-4000*)
- Industry standard spacer lengths to meet ISO and ANSI requirements
- Non standard spacer lengths up to 500 millimeters
- Hubs can be machined for bore and key, or hydraulic bore shaft connections (Type 9235-XX-3000*)
- Rexnord Koniclamp keyless shaft connection (Type 9235-XX-4000*)
- Application examples: slurry pumps, large industrial fans

Type 9235-XX-4000*

For applications with extended spacer

Type 9255-XX-3000*

- Welded spacer coupling design with finished bore hubs (Type 9255-XX-3000*)
- Welded spacer coupling design with Rexnord Koniclamp hubs (Type 9255-XX-4000*)
- Spacer lengths up to 6 meters
- Hubs can be machined for bore and key, or hydraulic bore shaft connections (Type 9255-XX-3000*)
- Rexnord Koniclamp keyless shaft connection (Type 9255-XX-4000*)
- Application examples: marine main drives, large vertical pumps

Type 9255-XX-4000*

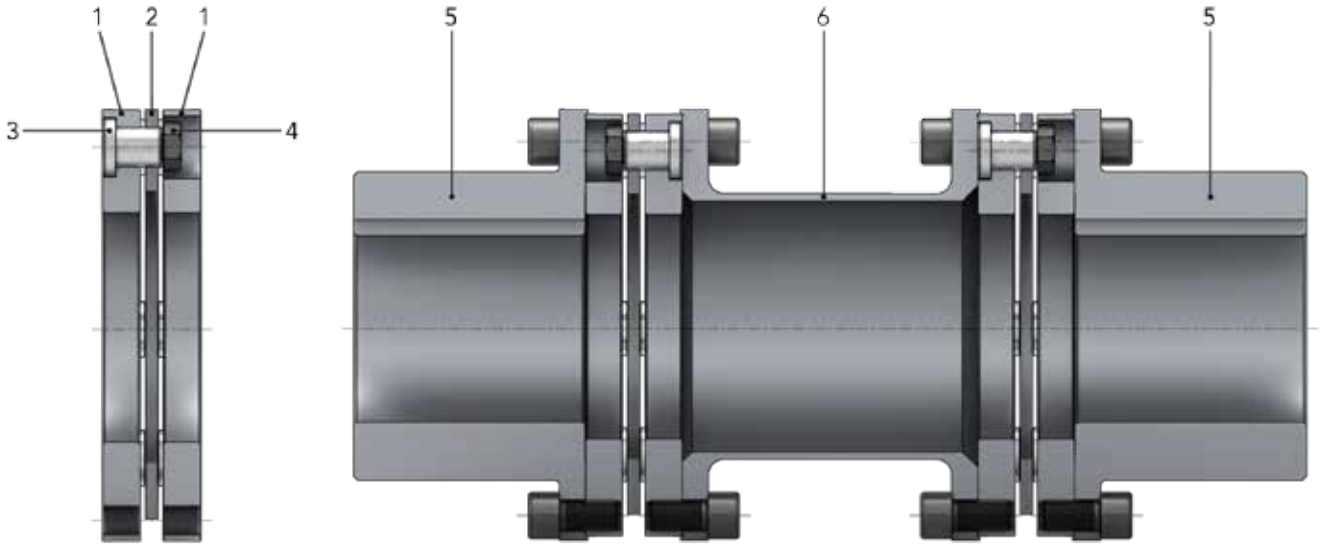
For applications requiring adaptation to flywheel or brake discs, and more

Type 9275-XX-3000*

- Spacer coupling design with flywheel adapter and finished bore hub (Type 9275-XX-3000*)
- Spacer coupling design with flywheel adapter and Rexnord Koniclamp hub (Type 9275-XX-4000*)
- Torsionally tuned spacer coupling design with flywheel adapter and Rexnord Koniclamp hub (Type 9275-XX-4000 TT*)
- Industry standard spacer lengths to meet ISO and ANSI requirements
- Non standard spacer lengths up to 500 millimeters
- Flywheel adapter plate which bolts directly to the flywheel of an engine or compressor
- Hub can be machined for bore and key, or hydraulic bore shaft connections (Type 9275-XX-3000*)
- Rexnord Koniclamp keyless shaft connection (Type 9275-XX-4000*)
- Application examples: reciprocating compressors, engine drives

Type 9275-XX-4000*

Design and Functionality of Rexnord Modulflex Disc Coupling

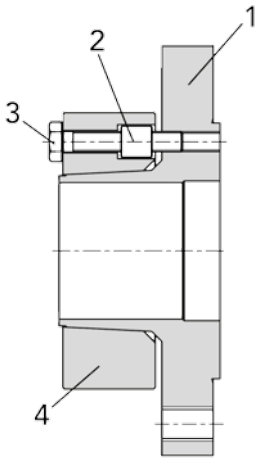


1. Flange
2. Disc Pack
3. Bushing
4. Hexagon head screw
5. Hub
6. Spacer

Rexnord Modulflex Torsionally Stiff, Flexible Disc Couplings are all-metal couplings complying with standard 740. The couplings consist of two disc packs, two flanges or hubs and one spacer. The flexible disc pack is the basis of all types and is alternately bolted to the flange or hub. The disc pack consists of a number of thin discs made of stainless steel. Torsionally stiff and flexible couplings compensate for axial, angular and - when equipped with two disc packs - also for radial misalignment.

Couplings provide nearly unlimited lifetime provided proper selection, installation and operation. Restoring forces and loads on the bearings are negligible, except extreme short distance versions. These couplings can be operated even at high environmental temperatures.

Design and Functionality of Rexnord Koniclamp Clamping Hubs



1. Clamping hub
2. Release bush
3. Compression and releasing bolts
4. Clamping ring

Rexnord Koniclamp® Clamping Hubs with integrated releasing technology provide frictional shaft connection. Moreover, hubs are secured against axial movement on the shaft. Clamping bolts also serve as releasing bolts. Additional fastening elements or special tools are not necessary. Clamping hubs are supplied as steel or aluminum versions.

Mounting
The clamping bolts are tightened up with a torque spanner one after the other (not crosswise) in stages to increasing levels of torque, starting with approximately 1/5th of the nominal torque and then in 1/5th increasing steps whereby several rotations will be necessary for each step. The tightening process has been completed when all the screws have been tightened to the nominal torque stated in the drawing.

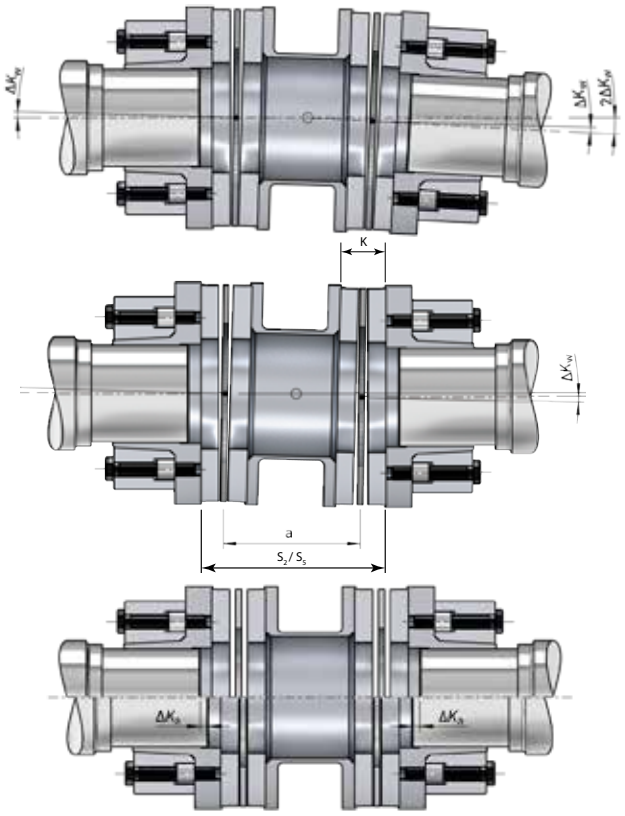
Dismounting
Thanks to the smart design of the Rexnord Koniclamp Clamping Hub, the clamping bolts also serve as push-off screws. The initial slackening is carried out with the torque necessary for this. All the screws are screwed back until resistance is felt. Then the screws are loaded - one after the other - with an increasing torque up to the point at which the clamping ring is released.

Rexnord Modulflex Disc Coupling Misalignment Capabilities

Below illustrations show the principle design of double-flex couplings and their characteristics for shaft misalignment. In general, the three depicted types of misalignment occur simultaneously during operation. They superimpose to a total misalignment which has to be compensated for by the coupling. Whereas a single-flex element only compensates for angular and axial misalignment, radial misalignment capacity of double-flex couplings is a result of the ratio of admissible angular misalignment and distance between the two disc packs (=a) according to this formula:

admissible radial misalignment =
a x tangent admissible angular misalignment
$a = S_2 - K$
$a = S_5 - K$

The radial misalignment capacity of couplings with variable spacer length depends on the length of the spacer or intermediate shaft.

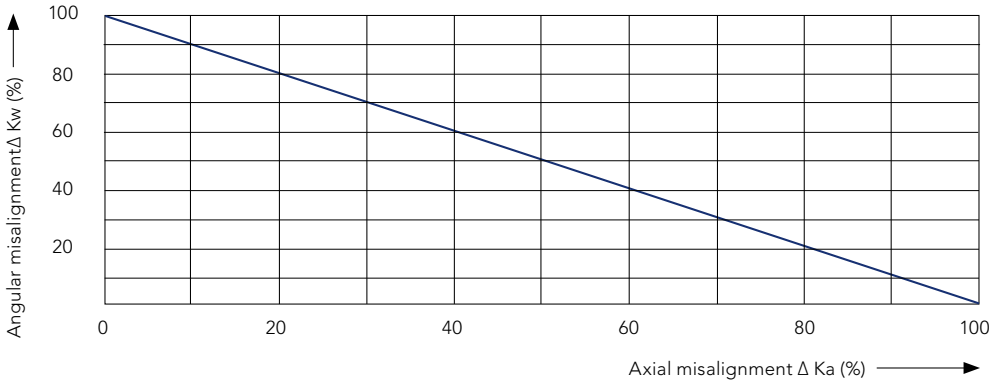


Δ K_W - Angular misalignment

Δ K_r - Radial misalignment

Δ K_a - Axial misalignment

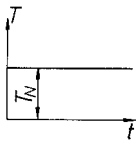
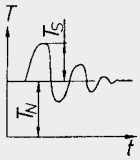
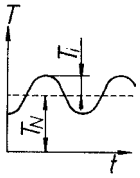
Graph 1 Misalignment



Values Δ Kr and Δ Kw as indicated in the respective data sheets apply at Δ Ka = 0. If Δ Ka takes a value ≠ 0, values Δ Kw are reduced acc. to graph 1. Values Δ Kw at Δ Ka ≠ 0 acc. to graph 1 are then used in the formula determining Δ Kr. Example: At axial misalignment, the admissible angular misalignment Δ Kw is reduced to a percental smaller value.

Note: dynamic balancing required for high speeds.

Questionnaire for the selection of flexible shaft couplings in accordance with DIN 740

Peak period	Driver side Driven side	T_{AO} T_{LO}	Duration of non-periodic torque peaks in the drive, e.g. starting up time, brake time, etc.	s
Nominal torque drive side		T_{AN}	Nominal torque of driving machine calculated from nominal power and nominal speed	Nm
Nominal torque driven side		T_{LN}	Maximum load torque calculated from power and speed	
Torque peak drive side		T_{AS}	Value of non-periodic torque peak on driving side, e.g. occurring in starting up and change in speed. For electric motors the equation M=T may be applied (pull out torque)	Nm
Torque peak driven side		T_{LS}	Value of non-periodic torque peak on load side, e.g. load variations and braking	
Periodic torque peak drive side		$\pm T_{Ai}$	Value of periodic torque initiation of i-order arising from dive side	Nm
Periodic torque peak driven side		$\pm T_{Li}$	Value of periodic torque initiation of i-order arising from load side	
Moment of load during acceleration		T_L	Torque which appears during acceleration	Nm
Moment of inertia drive side		J_1	Total of inertia moments on driving side acting on coupling shaft, except coupling	kgm^2
Moment of inertia driven side		J_2	Total of inertia moments on driven side acting on coupling shaft, except coupling	
Speed (rpm)		n_N	Speed of coupling shaft	min^{-1}
Pulses per rotation		i	Number of oscillations (surges of torque) per revolution	l
Starting frequency		Z	Numbers of starts (accelerations) per hour. On start-up with braking or on reversing Z should be doubled.	h^{-1}
Temperature		θ	Highest ambient temperature of coupling during operation.	°C
Maximum axial misalignment		ΔW_a	Maximum axial misalignment occuring between connecting shafts	mm
Maximum radial misalignment		ΔW_r	Maximum radial misalignment occuring between connecting shafts	
Maximum angular misalignment		ΔW_w	Maximum angular (cardanic) misalignment occuring between connecting shafts	rad

Coupling Selection

The standard selection method can be used for most motor, turbine or engine-driven applications.
The following information is required to select a flexible coupling:

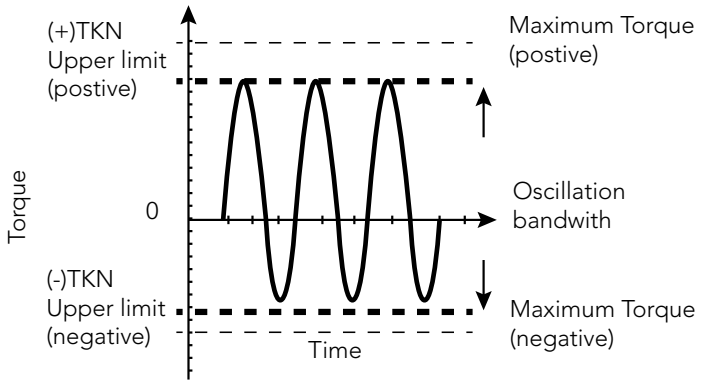
- Horsepower or Kilowatts or torque
- Running rpm
- Application or type of equipment to be connected (motor to pump, gear drive to conveyor, etc.)
- Shaft diameters
- Distance between shaft ends
- Physical space limitations
- Special bore or finish information and type of fit
- Torsional rigidity, weight and inertia

Consider application peak loads and brake and reversing torques. If loads are higher than application nominal torque use values to select the appropriate coupling size.

1. **Rating**: Determine the system torque. If the torque is not given, calculate as shown below:
   System Torque (Nm) = kW x 9550 / Rpm System Torque (Nm) = PS x 9550 x 0.746 / Rpm
   Power (kW) is the actual or transmitted power required by the application (if unknown, use the motor or turbine nameplate rating). Rpm is the actual speed at which the coupling is rotating. Applications that require rapid direction changes or torque reversals should be taken into consideration when selecting the coupling size. Oscillations bandwidth torque values should be used in the coupling selection, considering that the coupling minimum positive or negative torque ratings are not exceeded.
2. **Required Minimum Coupling Rating**: Determine the required minimum coupling rating as shown below:
   Coupling nominal rating > application nominal torque (Nm), peak or reversing torque as shown in the below table.
3. **Size**: Refer to the torque rating table below and select the coupling size that can transmit the required torque
4. **Type**: Refer to the overview on pages 4 and 5 for the coupling type and trace down the torque column to a value that is equal or greater than what you determined in step 3 above.
5. **Check**: Check speed (rpm), bore capacity, distance between shaft ends and the main dimensions to ensure the coupling fits in the available space.

Coupling Size	Nominal Torque① (+) T_{KN} [N·m]	Nominal Torque① (-) T_{KN} [N·m]	Maximum Torque① (+) $T_{K\,max}$ [N·m]	Maximum Torque① (-) $T_{K\,max}$ [N·m]	Perm. Oscill. Bandwidth②④ T_{KW} [N·m]
2,8	330	- 330	500	- 500	660
4,5	540	- 540	800	- 800	1 080
6,4	760	- 760	1 250	-1 250	1 520
11	1 300	-1 300	2 000	-2 000	2 600
17	2 000	-2 000	3 150	-3 150	4 000
28	3 300	-3 300	5 000	-5 000	6 600
45	5 400	-5 400	8 000	-8 000	10 800
64	7 600	-7 600	12 500	-12 500	15 200
110	13 200	-13 200	20 000	-20 000	26 400
170	20 400	-20 400	31 500	-31 500	40 800
280	33 600	-33 600	50 000	-50 000	67 200
450	54 000	-54 000	80 000	-80 000	108 000
640	76 800	-76 800	125 000	-125 000	153 600
1100	132 000	-132 000	193 000	-193 000	264 000
1700	204 000	-204 000	300 000	-300 000	408 000
2800	336 000	-336 000	500 000	-500 000	672 000

① According to DIN 740-2:1986-08
② According to DIN 50100:1978-02
③ Referring to one flexible module
④ This value is for testing purpose only



Description	Code	Explanation
Upper limit positive (Nominal torque)	(+)TKN	Torque which can be transmitted continuously over the entire speed range of the coupling.
Upper limit negative (Reversing torque)	(-)TKN	Negative torque which can be transmitted continuously.
Permissible oscillation bandwidth	TKW	Torque amplitude of the permissible periodic torque fluctuation with a frequency of 10Hz and basic load of TKN or dynamic load up to TKN. This value is for testing purpose only.
Peak torque positive (Startup torque)	(+)$T_{K\,max}$	Torque which can be transmitted during the entire life of the coupling => 10^5 times as peak load or 5 x 10 x 10^4 times as alternating load.
Peak torque negative (Breaking torque)	(-)$T_{K\,max}$	Torque which can be transmitted during the entire life of the coupling => 10^5 times as peak load or 5 x 10 x 10^4 times as alternating load.

Selection Examples

Selection example for motor driven applications:
Select a coupling to connect a 55 kW, 1500 rpm electric motor driving a lobe-type blower.
Motor shaft diameter is 42 mm, blower shaft diameter is 38 mm.
Distance between shaft ends is 140 mm. Shaft extensions are 140 mm and 110 mm.

1. Determine required rating: System torque (Nm) = 55 kW x 9550 / 1500n-min = 350 Nm
2. Required minimum coupling rating: 350 Nm
3. Size: Select the coupling size from the table on page 10 with the system torque calculated in step 1. Modulflex Size 4,5 is the proper coupling size based on a torque rating of 540 Nm, exceeding the required minimum coupling rating of 350 Nm.
4. Type: Select the suitable Rexnord Modulflex Disc Coupling type from the overview on page 4 and 5, which meets the application requirements. In this case the shaft to hub connection has a key way connection, which means that type 9235 is required.
5. Check: Allowable speed capacity of 9235-4,5-3000 exceeds the required speed of 1500 rpm. Maximum bore capacity of 44 mm exceeds the actual shaft diameters. Minimum C-dimension is less than 140mm.

Note: On high inertia applications, please contact Rexnord technical support to ensure proper coupling selection.

Selected coupling:
Rexnord Modulflex 9235-4,5-3000 c=140mm D1/D2=42H7+38H7+KEY WAY (JS9) + SET SCREW (M8)

Selection example for engine driven applications:
Select a coupling to connect a 450hp at 1500 rpm nominal power engine driven reciprocating compressor.
Engine shaft diameter is 110 mm, compressor shaft diameter is 115 mm. distance between shaft ends is 250mm
Shaft extensions are 140 mm and 130 mm.

1. Determine required rating:
   - Engine nominal torque (Nm) = 450 x 0,746 x 9550 / 1500n-min = 2137 Nm.
   - Alternating torque (Nm) based on engine torque curves provided by engine manufacturer 1630 Nm to 2360 Nm

1.1 Determinate required rating: Based on compressor manufacturer given torque curves torque variates from +860 Nm to -420 Nm
2. Required minimum coupling rating: Engine nominal torque 2137 Nm. Driven (compressor) created torque.
3. Size: From Table 1, Rexnord Modulflex Disc Coupling size 45 is the appropriate coupling size based on a torque rating of 54000 Nm exceeding the required minimum coupling rating of 3300 Nm.
4. Type: Select the suitable Rexnord Modulflex Disc Coupling type from the overview on page 4 and 5, which meets the application requirements. In this case the shaft to hub connection has a keyway connection, type 9235 is required.
5. Check: Allowable speed capacity of 9235-45-4000 exceeds the required speed of 1500 rpm. Maximum bore capacity of 120 mm exceeds the actual shaft diameters. Minimum C-dimension is less than 250mm.

Selected coupling:
Rexnord Modulflex 9235-45-4000 c=250mm D1/D2=110/115

Single-flexing Coupling Element

Modulflex 9205-XX-0000

Single flexible element as basis for spacer and long spacer coupling configurations. For replace-in-place and adapting to existing connecting equipment. The element can be used with finished bore or Rexnord Koniclamp® hub configurations.

Features
- Disc pack is built under compression
- High precision accuracy on bolt and disc joint
- Large diameter disc connection bolts
- Disc designed for infinite dynamic load life

Benefits
- Zero backlash & joint vibration
- Requires no extra safety factor for the coupling
- High torque per outer diameter
- High potential speeds
- Minimizes bolt cycle fatigue
- Compensates for angular and axial misalignment thus protecting the torque flange
- Rigid coupling to meet system torsional requirements
- Reliable performance even when the system experiences reciprocating forces
- No dynamic load life limit

Construction

Elements: Alloy steel with a typical tensile strength of 900 - 1200 N/mm

Disc Packs: Stainless steel. Max. misalignment: 0,7° per disc pack

Coatings available: Nickel plating or phosphate. Other coatings available upon request

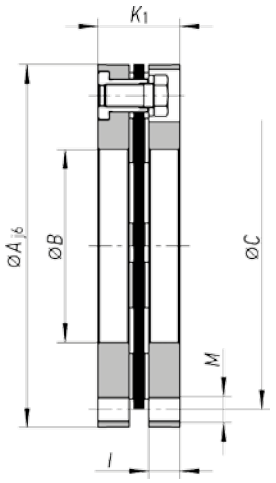
As alternative:

Elements: High-strength Aluminum 7075 to ensure low weight and inertia

Technical data almost identical to the steel version

Available coating: Hard coating to protect against corrosion and to harden the surface

Modulflex 9205-XX-0000

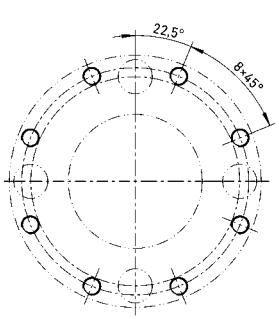


9205-XX-0000 DIMENSIONS

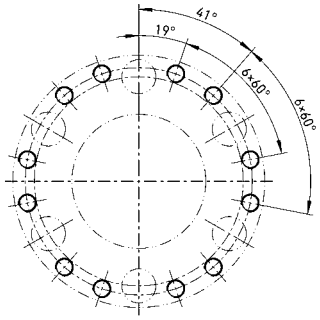
Coupling Size	Nominal Torque① (+) T_{KN} [N·m]	Nominal Torque① (-) T_{KN} [N·m]	Maximum Torque① (+) $T_{K\,max}$ [N·m]	Maximum Torque① (-) $T_{K\,max}$ [N·m]	Perm. Oscill. Bandwidth② T_{KW} [N·m]	Axial Misalign-ment ΔK_a [± mm]	Radial Misalign-ment ΔK_r [± mm]	Angular Misalign-ment ΔK_w [deg]	Torsional Spring Rate $C_{T\,dyn}$ [MN·m/rad]	Moment of Inertia m [kg·m²]	Weight m [kg]	Maximum Speed n_{max} [min⁻¹]	Dimensions A [mm]	B [mm]	C [mm]	l [mm]	K_1 [mm]	M [mm]	Bolt Hole Pattern
2,8	330	- 330	500	- 500	660	1,0	-	0,75	0,11	0,0006	0,7	44 000	75	39	64	12	29,5	M8	A
4,5	540	- 540	800	- 800	1 080	1,2	-	0,75	0,16	0,0013	1,0	39 000	88	47	77	13	32,5	M8	A
6,4	760	- 760	1 250	-1 250	1 520	1,3	-	0,75	0,41	0,0029	1,6	31 400	110	55	99	12	31	M8	B
11	1 300	-1 300	2 000	-2 000	2 600	1,4	-	0,75	0,75	0,0073	2,5	27 100	139	68	127	12,2	32	M8	B
17	2 000	-2 000	3 150	-3 150	4 000	1,5	-	0,75	1,3	0,0089	2,6	23 200	146	82	134	12,5	32,5	M8	C
28	3 300	-3 300	5 000	-5 000	6 600	1,6	-	0,75	2,19	0,018	3,9	21 000	170	90	154	13	34,5	M10	C
45	5 400	-5 400	8 000	-8 000	10 800	2,0	-	0,75	3,53	0,044	7,0	18 400	200	102	182	17	44	M12	C
64	7 600	-7 600	12 500	-12 500	15 200	2,1	-	0,75	4,63	0,076	9,9	15 600	222	118	200	19,1	50	M16	D
110	13 200	-13 200	20 000	-20 000	26 400	2,5	-	0,75	6,52	0,138	14	14 500	248	135	224	22,8	58	M16	D
170	20 400	-20 400	31 500	-31 500	40 800	2,9	-	0,75	11,91	0,275	21	12 800	285	152	258	25,5	65,5	M20	D
280	33 600	-33 600	50 000	-50 000	67 200	3,2	-	0,75	17,18	0,556	33	11 300	325	162	295	30	76,5	M24	D
450	54 000	-54 000	80 000	-80 000	108 000	3,6	-	0,75	29,09	1,04	48	10 100	366	195	330	35,7	90	M27	D
640	76 800	-76 800	125 000	-125 000	153 600	4,1	-	0,75	39,48	1,83	68	8 100	408	215	369	40,5	101,5	M30	D
1100	132 000	-132 000	193 000	-193 000	264 000	4,6	-	0,75	59,24	3,83	110	7 700	465	250	420	51	126	M33	D
1700	204 000	-204 000	300 000	-300 000	408 000	4,8	-	0,75	74,61	6,48	157	6 900	504	275	458	64	153	M33	D
2800	336 000	-336 000	500 000	-500 000	672 000	5,0	-	0,75	121,91	11,9	226	5 500	590	290	510	75	185	M42	D

① According to DIN 740-2:1986-08 ② According to DIN 50100:1978-02

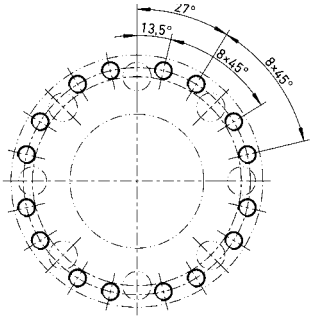
Bolt Hole Pattern "A"



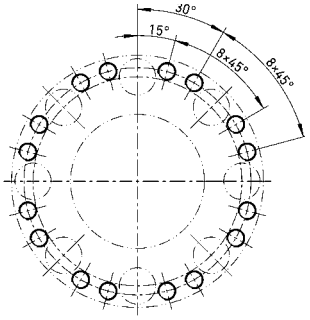
Bolt Hole Pattern "B"



Bolt Hole Pattern "C"



Bolt Hole Pattern "D"



Note: Bolt circle diameter (C) and bolt hole (M) dimensions are shown in above table.

Double-flexing Coupling Element

Modulflex 9205-XX-0500

Double flexible element as basis for spacer and long spacer coupling configurations. For replace-in-place and adapting to existing connecting equipment. The element can be used with finished bore or Rexnord Koniclamp® hub configurations.

Features
- Disc packs are built under compression
- High precision accuracy on bolt and disc joint
- Large diameter disc connection bolts
- Disc designed for infinite dynamic load life

Benefits
- Zero backlash & joint vibration
- Requires no extra safety factor for the coupling
- High torque per outer diameter
- High potential speeds
- Minimizes bolt cycle fatigue
- Compensates for radial, angular and axial misalignment thus protecting the torque flange
- Rigid coupling to meet system torsional requirements
- Reliable performance even when the system experiences reciprocating forces
- No dynamic load life limit

Construction

Elements: Alloy steel with a typical tensile strength of 900 - 1200 N/mm

Disc Packs: Stainless steel. Max. misalignment: 0,7° per disc pack

Coatings available: Nickel plating or phosphate. Other coatings available upon request

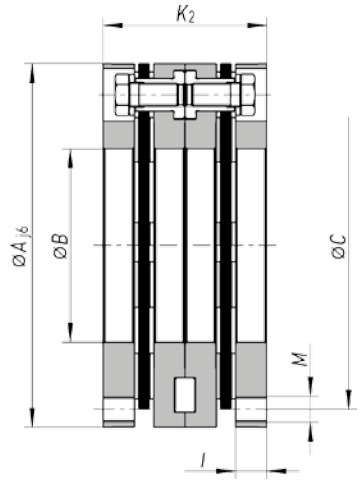
As alternative:

Elements: High-strength Aluminum 7075 to ensure low weight and inertia

Technical data almost identical to the steel version

Available coating: Hard coating to protect against corrosion and to harden the surface

Modulflex 9205-XX-0500

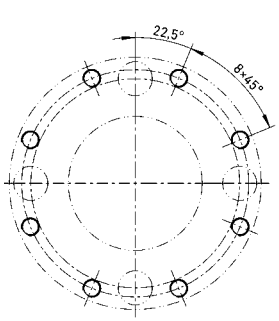


9205-XX-0500 DIMENSIONS

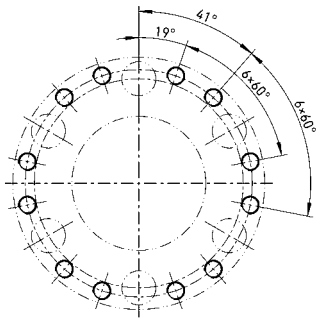
Coupling Size	Nominal Torque① (+) T_{KN} [N·m]	Nominal Torque① (-) T_{KN} [N·m]	Maximum Torque① (+) $T_{K\,max}$ [N·m]	Maximum Torque① (-) $T_{K\,max}$ [N·m]	Perm. Oscill. Bandwidth② T_{KW} [N·m]	Axial Misalign-ment ΔK_a [± mm]	Radial Misalign-ment ΔK_r [± mm]	Angular Misalign-ment③ ΔK_w [deg]	Torsional Spring Rate $C_{T\,dyn}$ [MN·m/rad]	Moment of Inertia m [kg·m²]	Weight m [kg]	Maximum Speed n_{max} [min⁻¹]	Dimensions A [mm]	B [mm]	C [mm]	l [mm]	K_2 [mm]	M [mm]	Bolt Hole Pattern
2,8	330	- 330	500	- 500	660	2,0	0,38	0,75	0,055	0,0012	1,4	44 000	75	39	64	12	59	M8	A
4,5	540	- 540	800	- 800	1 080	2,4	0,42	0,75	0,080	0,0026	2,0	39 000	88	47	77	13	65	M8	A
6,4	760	- 760	1 250	-1 250	1 520	2,6	0,41	0,75	0,205	0,0058	3,2	31 400	110	55	99	12	62	M8	B
11	1 300	-1 300	2 000	-2 000	2 600	2,8	0,42	0,75	0,375	0,0146	5,0	27 100	139	68	127	12,2	64	M8	B
17	2 000	-2 000	3 150	-3 150	4 000	3,0	0,42	0,75	0,650	0,0178	5,2	23 200	146	82	134	12,5	65	M8	C
28	3 300	-3 300	5 000	-5 000	6 600	3,2	0,45	0,75	1,10	0,036	7,8	21 000	170	90	154	13	69	M10	C
45	5 400	-5 400	8 000	-8 000	10 800	4,0	0,58	0,75	1,77	0,088	14,0	18 400	200	102	182	17	88	M12	C
64	7 600	-7 600	12 500	-12 500	15 200	4,2	0,65	0,75	2,32	0,152	19,8	15 600	222	118	200	19,1	100	M16	D
110	13 200	-13 200	20 000	-20 000	26 400	5,0	0,76	0,75	3,26	0,276	28,2	14 500	248	135	224	22,8	116	M16	D
170	20 400	-20 400	31 500	-31 500	40 800	5,8	0,86	0,75	5,96	0,55	42	12 800	285	152	258	25,5	131	M20	D
280	33 600	-33 600	50 000	-50 000	67 200	6,4	1,00	0,75	8,59	1,11	66	11 300	325	162	295	30	153	M24	D
450	54 000	-54 000	80 000	-80 000	108 000	7,2	1,18	0,75	14,55	2,08	96	10 100	366	195	330	35,7	180	M27	D
640	76 800	-76 800	125 000	-125 000	153 600	8,2	1,33	0,75	19,74	3,66	136	8 100	408	215	369	40,5	203	M30	D
1100	132 000	-132 000	193 000	-193 000	264 000	9,2	1,65	0,75	29,62	7,66	220	7 700	465	250	420	51	252	M33	D
1700	204 000	-204 000	300 000	-300 000	408 000	9,6	2,00	0,75	37,31	12,96	314	6 900	504	275	458	64	306	M33	D
2800	336 000	-336 000	500 000	-500 000	672 000	10,0	2,42	0,75	60,96	23,73	452	5 500	590	290	510	75	370	M42	D

① According to DIN 740-2:1986-08 ② According to DIN 50100:1978-02 ③ Referring to one flexible module

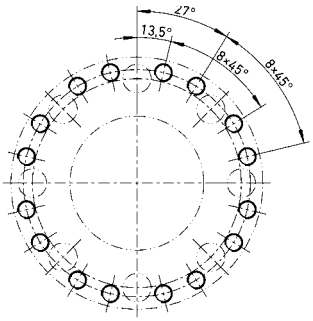
Bolt Hole Pattern "A"



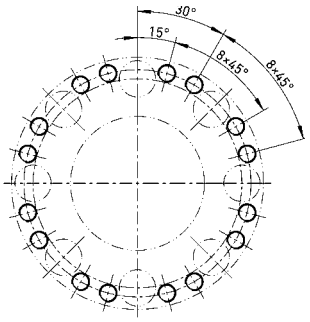
Bolt Hole Pattern "B"



Bolt Hole Pattern "C"



Bolt Hole Pattern "D"



Note: Bolt circle diameter (C) and bolt hole (M) dimensions are shown in above table.

Double-flexing Coupling Element with Shaft Hub

Modulflex 9215-XX-3500

Double flexible element with finished bored standard hubs. Applications include any situation where the overall shaft-to-shaft spacing is minimal. The center member consists of two flexible elements and permits maintenance of the couplings without moving the hubs or the connected equipment. Center member is piloted into the adapter providing high-speed potential at high-torque density.

Features
- Disc packs are built under compression
- High precision accuracy on bolt and disc joint
- Large diameter disc connection bolts
- Disc designed for infinite dynamic load life

Benefits
- Zero backlash & joint vibration
- Requires no extra safety factor for the coupling
- High torque per outer diameter
- High potential speeds
- Minimizes bolt cycle fatigue
- Compensates for radial, angular and axial misalignment thus protecting the torque flange
- Rigid coupling to meet system torsional requirements
- Reliable performance even when the system experiences reciprocating forces
- No dynamic load life limit

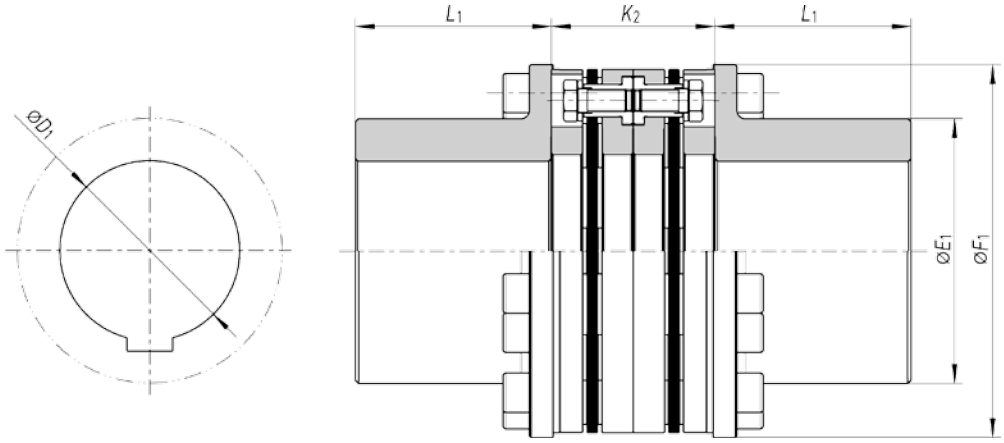
Construction

Elements: Alloy steel with a typical tensile strength of 900 - 1200 N/mm
Hubs: Carbon steel
Bolts: Alloy steel
Disc Packs: Stainless steel. Max. misalignment: 0,7° per disc pack
Coatings available: Nickel plating or phosphate. Other coatings available upon request

As alternative:

Elements: High-strength Aluminum 7075 to ensure low weight and inertia
Technical data almost identical to the steel version
Available coating: Hard coating to protect against corrosion and to harden the surface

Modulflex 9215-XX-3500



9215-XX-3500 DIMENSIONS

Coupling Size	Nominal Torque① (+) T_{KN} [N·m]	Nominal Torque① (-) T_{KN} [N·m]	Maximum Torque① (+) $T_{K\,max}$ [N·m]	Maximum Torque① (-) $T_{K\,max}$ [N·m]	Perm. Oscill. Bandwidth② T_{KW} [N·m]	Axial Misalign-ment ΔK_a [± mm]	Radial Misalign-ment ΔK_r [± mm]	Angular Misalign-ment③ ΔK_w [deg]	Torsional Spring rate⑤⑥ $C_{T\,dyn}$ [MN·m/rad]	Moment of Inertia m [kg·m²]	Weight m [kg]	Maximum Speed n_{max} [min⁻¹]	Dimensions $D_{1\,max}$ [mm]	E_1 [mm]	F_1 [mm]	K_2 [mm]	L_1 [mm]
2,8	330	- 330	500	- 500	660	2,0	0,38	0,75	0,05	0,002	2,3	44 000	35	48	79	59	45
4,5	540	- 540	800	- 800	1 080	2,4	0,42	0,75	0,075	0,004	3,4	39 000	44	60	92	65	50
6,4	760	- 760	1 250	-1 250	1 520	2,6	0,41	0,75	0,189	0,010	5,7	31 400	55	75	114	62	55
11	1 300	-1 300	2 000	-2 000	2 600	2,8	0,42	0,75	0,354	0,027	10,5	27 100	70	100	143	64	70
17	2 000	-2 000	3 150	-3 150	4 000	3,0	0,42	0,75	0,603	0,034	11,3	23 200	80	110	150	65	75
28	3 300	-3 300	5 000	-5 000	6 600	3,2	0,45	0,75	0,986	0,064	16,0	21 000	90	120	174	69	85
45	5 400	-5 400	8 000	-8 000	10 800	4,0	0,58	0,75	1,602	0,165	30,3	18 400	105	145	205	88	110
64	7 600	-7 600	12 500	-12 500	15 200	4,2	0,65	0,75	2,111	0,281	41,3	15 600	120	162	227	100	120
110	13 200	-13 200	20 000	-20 000	26 400	5,0	0,76	0,75	3,009	0,537	63,1	14 500	135	188	252	116	140
170	20 400	-20 400	31 500	-31 500	40 800	5,8	0,86	0,75	5,299	0,990	86	12 800	160	210	293	131	160
280	33 600	-33 600	50 000	-50 000	67 200	6,4	1,00	0,75	7,875	2,13	143	11 300	180	250	334	153	180
450	54 000	-54 000	80 000	-80 000	108 000	7,2	1,18	0,75	12,79	3,65	193	10 100	200	268	375	180	200
640	76 800	-76 800	125 000	-125 000	153 600	8,2	1,33	0,75	17,32	6,48	288	8 100	240	308	416	203	240
1100	132 000	-132 000	193 000	-193 000	264 000	9,2	1,65	0,75	26,43	13,6	434	7 700	270	358	475	252	270
1700	204 000	-204 000	300 000	-300 000	408 000	9,6	2,00	0,75	33,44	22,6	593	6 900	300	395	516	306	300
2800	336 000	-336 000	500 000	-500 000	672 000	10,0	2,42	0,75	49,62	35,0		5 500	350	420	602	370	360

① According to DIN 740-2:1986-08 ② According to DIN 50100:1978-02 ③ Referring to one flexible module ⑤ Based on 1/3 shaft penetration
⑥ These values are valid for the shaft compression. In case of keyway connection, the values need to be recalculated.

Double-flexing Coupling Element with Koniclamp

Modulflex 9215-XX-4500

Double flexible element with Koniclamp® Clamping Hubs. Applications include any situation where the overall shaft-to-shaft spacing is minimal. The center member consists of two flexible elements and permits maintenance of the couplings without moving the hubs or the connected equipment. Center member is piloted into the adapter providing high-speed potential at high-torque density.

Features

- Disc packs are built under compression
- High precision accuracy on bolt and disc joint
- Large diameter disc connection bolts
- Disc designed for infinite dynamic load life

Benefits

- Zero backlash & joint vibration
- Requires no extra safety factor for the coupling
- High torque per outer diameter
- High potential speeds
- Minimizes bolt cycle fatigue
- Compensates for radial, angular and axial misalignment thus protecting the torque flange
- Rigid coupling to meet system torsional requirements
- Reliable performance even when the system experiences reciprocating forces
- No dynamic load life limit

Koniclamp hubs are the recommended shaft-hub connection to ensure a backlash-free and true-running connection.

Construction

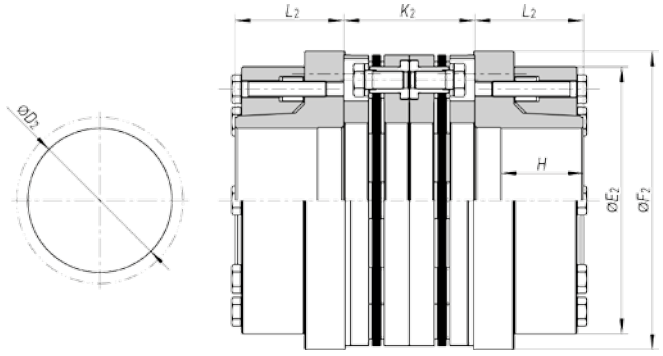
Elements and outer ring clamping hub: Alloy steel with a typical tensile strength of 900 - 1200 N/mm
Hubs: Carbon steel
Bolts: Alloy steel
Disc Packs: Stainless steel. Max. misalignment: 0,7° per disc pack
Coatings available: Nickel plating or phosphate. Other coatings available upon request

As alternative:

Elements and Koniclamp: High-strength Aluminum 7075 to ensure low weight and inertia
Technical data almost identical to the steel version
Available coating: Hard coating to protect against corrosion and to harden the surface

More information on the Koniclamp hub is available on page 7

Modulflex 9215-XX-4500



9215-XX-4500 DIMENSIONS

Coupling Size	Nominal Torque① (+) T_{KN} [N·m]	Nominal Torque① (-) T_{KN} [N·m]	Maximum Torque① (+) $T_{K\,max}$ [N·m]	Maximum Torque① (-) $T_{K\,max}$ [N·m]	Perm. Oscill. Bandwidth② T_{KW} [N·m]	Axial Misalign-ment ΔK_a [± mm]	Radial Misalign-ment ΔK_r [± mm]	Angular Misalign-ment③ ΔK_w [deg]	Torsional Spring Rate⑤⑥ $C_{T\,dyn}$ [MN·m/rad]	Moment of Inertia m [kg·m²]	Weight m [kg]	Maximum Speed n_{max} [min⁻¹]	Dimensions D_2 [mm]	E_2 [mm]	F_2 [mm]	H [mm]	K_2 [mm]	L_2 [mm]
2,8	330	- 330	500	- 500	660	1,0	0,38	0,75	0,045	0,003	4,0	44 000	20-30	67	79	32	59	39
									0,050	0,004	4,0		30-40	81		36		42
4,5	540	- 540	800	- 800	1 080	1,2	0,42	0,75	0,070	0,005	4,6	39 000	30-40	81	92	36	65	42
									0,076	0,006	5,0		40-50	95		36		42
6,4	760	- 760	1 250	-1 250	1 520	1,3	0,41	0,75	0,097	0,014	8,4	31 400	20-30	88	114	40	62	52
									0,138	0,024	11		30-40	110		54		64
									0,180	0,013	7,6		40-50	95		36		45
									0,193	0,016	8,6		50-60	110		40		48
11	1 300	-1 300	2 000	-2 000	2 600	1,4	0,42	0,75	0,199	0,037	14,8	27 100	30-40	110	143	54	64	64
									0,283	0,051	18,2		40-50	139		67		65
									0,335	0,031	11,8		50-60	110		40		48
									0,352	0,039	12,6		60-75	136		43		51
17	2 000	-2 000	3 150	-3 150	4 000	1,5	0,42	0,75	0,409	0,055	19,2	23 200	40-50	139	150	67	65	65
									0,499	0,066	20,4		50-60	146		80		69
									0,588	0,046	14,0		60-75	136		43		56
									0,620	0,064	17,4		75-90	155		50		62
28	3 300	-3 300	5 000	-5 000	6 600	1,6	0,45	0,75	0,436	0,130	32,4	21 000	50-60	146	174	80	69	72
									0,488	0,158	36,4		60-75	168		101		77
									0,526	0,182	29,0		75-90	155		50		64
									0,536	0,172	37,2		90-105	177		55		68
45	5 400	-5 400	8 000	-8 000	10 800	2,0	0,58	0,75	0,738	0,284	51,4	18 400	60-75	168	205	101	88	79
									0,804	0,310	53,4		75-90	184		118		85
									0,852	0,296	49,6		90-105	177		55		69
									0,861	0,334	50,8		105-120	204		64		76
64	7 600	-7 600	12 500	-12 500	15 200	2,1	0,65	0,75	1,026	0,518	73,6	15 600	75-90	184	227	118	100	92
									1,079	0,664	85,6		90-105	226		138		98,5
									1,121	0,478	67,8		105-120	204		64		85
									1,130	0,664	79,2		120-135	238		79		98
110	13 200	-13 200	20 000	-20 000	26 400	2,5	0,76	0,75	1,479	0,996	110	14 500	90-105	226	252	138	116	100
									1,526	1,144	118		105-120	256		160		112
									1,575	0,996	102		120-135	238		79		99
									1,588	1,210	113		135-155	267		92		110
170	20 400	-20 400	31 500	-31 500	40 800	2,9	0,86	0,75	2,649	1,956	162	12 800	105-120	256	293	160	131	117
									2,713	2,388	190		120-135	294		180		138
									2,841	2,028	156		135-155	267		92		117
									2,886	2,700	188		155-175	308		116		137
280	33 600	-33 600	50 000	-50 000	67 200	3,2	1,00	0,75	3,761	4,024	240	11 300	120-135	294	334	180	153	144
									3,960	4,952	296		135-155	325		145		166
									4,102	4,044	242		155-175	308		116		143
									4,138	5,324	284		175-195	355		136		159
450	54 000	-54 000	80 000	-80 000	108 000	3,6	1,18	0,75	6,165	9,840	514	10 100	135-155	325	375	145	180	174
									6,373	12,16	560		155-175	366		191		212
									6,847	7,710	362		175-195	355		136		161
									6,973	10,96	452		195-225	418		155		177
640	76 800	-76 800	125 000	-125 000	153 600	4,1	1,33	0,75	8,283	14,10	580	8 100	155-175	366	416	191	203	215
									8,658	18,12	686		175-195	412		223		242
									9,327	15,52	556		195-225	418		155		183
									9,464	20,72	662		225-255	468		180		204
1100	132 000	-132 000	193 000	-193 000	264 000	4,6	1,65	0,75	12,25	26,12	832	7 700	175-195	412	475	223	252	249
									13,11	33,72	914		195-225	465		244		266
									13,93	28,30	812		225-255	468		180		211
									14,27	41,12	994		255-295	545		212		238
1700	204 000	-204 000	300 000	-300 000	408 000	4,8	2,00	0,75	16,02	48,92	1208	6 900	195-225	465	516	244	306	270
									16,51	57,12	1404		195-225	465		334		270
									17,79	55,72	1248		255-295	545		212		240
									18,13	60,52	1284		295-335	580		220		246
2800	336 000	-336 000	500 000	-500 000	672 000	5,0	2,42	0,75	25,15			5 500	195-225	465	602	334	370	270
									26,73				225-255	508		378		345
									29,13				255-295	545		220		240
									29,55				295-335	580		258		246

① According to DIN 740-2:1986-08 ② According to DIN 50100:1978-02 ③ Referring to one flexible module ⑤ Based on 1/3 shaft penetration
⑥ These values are valid for the shaft compression. In case of keyway connection, the values need to be recalculated.

Short Spacer Coupling with Shaft Hub

Modulflex 9235-XX-3000

Spacer coupling design with finish bored hubs and industry standard spacer lengths to meet ISO and ANSI requirements and non standard spacer lengths of up to 500 mm. This optimized 5-piece design allows for the smallest possible package for an application. The hubs are pilot fitted to the factory assembled disc pack element. The design allows for repeatable installations without special tooling. Additional modifications may be made to reduce coupling weight, or special mountings to make it an economical option on various critical and high speed applications. Common engineered solutions are available such as torque overload protection, electrical insulation, spark resistance and alloy construction.

Features
- Disc packs are built under compression
- High precision accuracy on bolt and disc joint
- Large diameter disc connection bolts
- Torsionally tuned center member
- Disc designed for infinite dynamic load life

Benefits
- Zero backlash & joint vibration thus not requiring an additional safety factor for the coupling
- Requires no extra safety factor for the coupling
- High torque per outer diameter
- High potential speeds
- Minimizes bolt cycle fatigue
- Compensates for radial, angular and axial misalignment thus protecting the torque flange
- Rigid coupling to meet system torsional requirements
- Reliable performance even when the system experiences reciprocating forces
- No dynamic load life limit

Construction

Elements: Alloy steel with a typical tensile strength of 900 - 1200 N/mm

Hubs and spacer: Carbon steel

Bolts: Alloy steel

Disc Packs: Stainless steel. Max. misalignment: 0,7° per disc pack

Coatings available: Nickel plating or phosphate. Other coatings available upon request

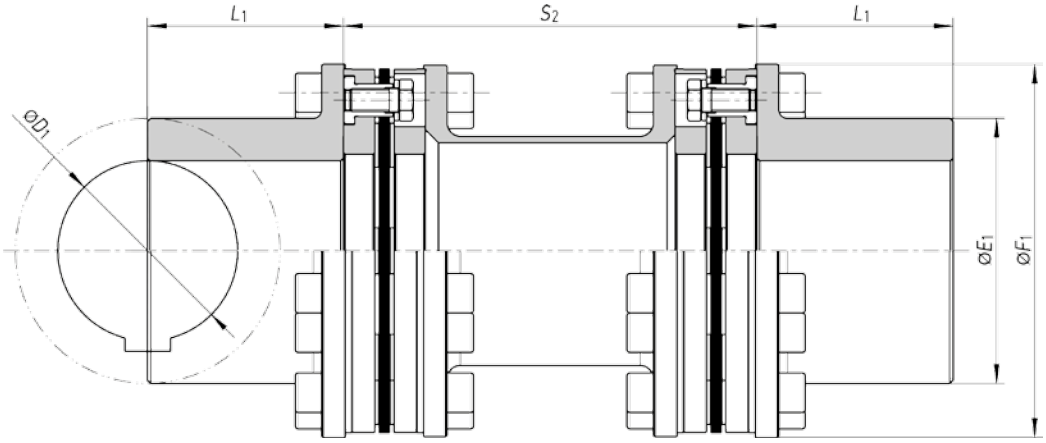
As alternative:

Elements and spacer: High-strength Aluminum 7075 to ensure low weight and inertia

Technical data almost identical to the steel version

Available coating: Hard coating to protect against corrosion and to harden the surface

Modulflex 9235-XX-3000



9235-XX-3000 DIMENSIONS

Coupling Size	Nominal Torque① (-) T_{KN} [N·m]	Nominal Torque① (+) T_{KN} [N·m]	Maximum Torque① (+) $T_{K\,max}$ [N·m]	Maximum Torque① (-) $T_{K\,max}$ [N·m]	Perm. Oscill. Bandwidth② T_{KW} [N·m]	Axial Misalign-ment ΔK_a [± mm]	Radial Misalign-ment③ ΔK_r [± mm]	Angular Misalign-ment④ ΔK_w [deg]	Torsional Spring Rate③⑤⑥ $C_{T\,dyn}$ [MN·m/rad]	Moment of Inertia③ m [kg·m²]	Weight③ m [kg]	Dimensions $D_{1\,max}$ [mm]	E_1 [mm]	F_1 [mm]	L_1 [mm]	Distance Between Shaft Ends $S_{2\,min}$ [mm]	S_2 = 140mm	S_2 = 180mm	S_2 = 250mm	S_2 = 300mm
2,8	330	- 330	500	- 500	660	2,0	0,9	0,75	0,041	0,002	2,7	35	48	79	45	101	X			
4,5	540	- 540	800	- 800	1 080	2,4	1,0	0,75	0,064	0,004	4,0	44	60	92	50	107	X			
6,4	760	- 760	1 250	-1 250	1 520	2,6	1,2	0,75	0,148	0,012	6,8	55	75	114	55	125	X			
11	1 300	-1 300	2 000	-2 000	2 600	2,8	1,2	0,75	0,293	0,033	12,4	70	100	143	70	126	X			
17	2 000	-2 000	3 150	-3 150	4 000	3,0	1,2	0,75	0,522	0,041	13,2	80	110	150	75	126		X		
28	3 300	-3 300	5 000	-5 000	6 600	3,2	1,5	0,75	0,824	0,076	18,9	90	120	174	85	149		X		
45	5 400	-5 400	8 000	-8 000	10 800	4,0	1,6	0,75	1,251	0,196	35,8	105	145	205	110	170			X	
64	7 600	-7 600	12 500	-12 500	15 200	4,2	2,7	0,75	1,484	0,339	49,0	120	162	227	120	253				X
110	13 200	-13 200	20 000	-20 000	26 400	5,0	2,8	0,75	2,222	0,637	74,0	135	188	252	140	272				X
170	20 400	-20 400	31 500	-31 500	40 800	5,8	3,4	0,75	3,637	1,200	104	160	210	293	160	324				
280	33 600	-33 600	50 000	-50 000	67 200	6,4	3,7	0,75	5,469	2,51	168	180	250	334	180	356				
450	54 000	-54 000	80 000	-80 000	108 000	7,2	4,2	0,75	8,53	4,41	235	200	268	375	200	414				
640	76 800	-76 800	125 000	-125 000	153 600	8,2	4,5	0,75	12,53	7,64	319	240	308	416	240	442				
1100	132 000	-132 000	193 000	-193 000	264 000	9,2	5,0	0,75	20,1	15,9	512	270	358	475	270	505				
1700	204 000	-204 000	300 000	-300 000	408 000	9,6	5,4	0,75	27,1	26,3	702	300	395	516	300	568				
2800	336 000	-336 000	500 000	-500 000	672 000	10,0	8,1	0,75				350	420	602	360	802				

① According to DIN 740-2:1986-08 ② According to DIN 50100:1978-02 ③ Referring to min. spacer length design ④ Referring to one flexible module
⑤ Based on 1/3 shaft penetration ⑥ These values are valid for the shaft compression. In case of keyway connection, the values need to be recalculated.

Short Spacer Coupling with Koniclamp

Modulflex 9235-XX-4000

Spacer coupling design with Rexnord Koniclamp clamping hubs and industry standard spacer lengths to meet ISO and ANSI requirements and non standard spacer lengths of up to 500 mm. This optimized 5-piece design allows for the smallest possible package for an application. The hubs are pilot fitted to the factory assembled disc pack element. The design allows for repeatable installations without special tooling. Additional modifications may be made to reduce coupling weight, or special mountings to make it an economical option on various critical and high speed applications. Common engineered solutions are available such as torque overload protection, electrical insulation, spark resistance and alloy construction.

Features
- Disc packs are built under compression
- High precision accuracy on bolt and disc joint
- Large diameter disc connection bolts
- Torsionally tuned center member
- Disc designed for infinite dynamic load life

Benefits
- Zero backlash & joint vibration
- Requires no extra safety factor for the coupling
- High torque per outer diameter
- High potential speeds
- Minimizes bolt cycle fatigue
- Compensates for radial, angular and axial misalignment thus protecting the torque flange
- Rigid coupling to meet system torsional requirements
- Reliable performance even when the system experiences reciprocating forces
- No dynamic load life limit

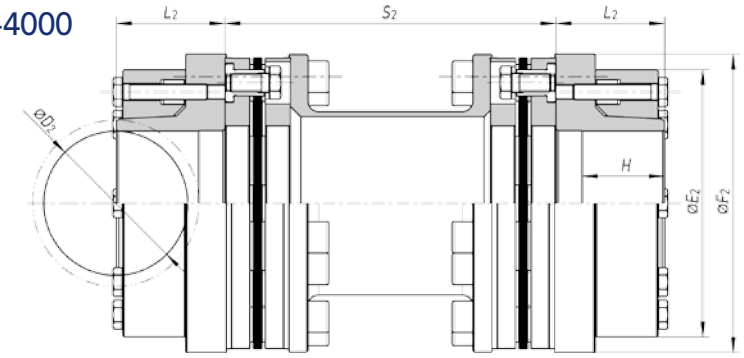
Koniclamp hubs are the recommended shaft-hub connection to ensure a backlash-free and true-running connection.

Construction
Elements and outer ring clamping hub: Alloy steel with a typical tensile strength of 900 - 1200 N/mm
Hubs and spacer: Carbon steel
Bolts: Alloy steel
Disc Packs: Stainless steel. Max. misalignment: 0,7° per disc pack
Coatings available: Nickel plating or phosphate. Other coatings available upon request

As alternative:
Elements, Koniclamp and spacer: High-strength Aluminum 7075 to ensure low weight and inertia
Technical data almost identical to the steel version
Available coating: Hard coating to protect against corrosion and to harden the surface

More information on the Koniclamp hub is available on page 7

Modulflex 9235-XX-4000



9235-XX-4000 DIMENSIONS

Coupling Size	Nominal Torque① (-) T_{KN} [N·m]	Nominal Torque① (+) T_{KN} [N·m]	Maximum Torque① (+) $T_{K\,max}$ [N·m]	Maximum Torque① (-) $T_{K\,max}$ [N·m]	Perm. Oscill. Bandwidth② T_{KW} [N·m]	Axial Misalignment ΔK_a [± mm]	Radial Misalignment③ ΔK_r [± mm]	Angular Misalignment④ ΔK_w [deg]	Torsional Spring Rate⑤⑥ $C_{T\,dyn}$ [MN·m/rad]	Moment of Inertia③ m [kg·m²]	Weight③ m [kg]	Dimensions D_2 [mm]	E_2 [mm]	F_2 [mm]	H [mm]	L_2 [mm]	Distance Between Shaft Ends $S_{2\,min}$ [mm]	S_2 = 140mm	S_2 = 180mm	S_2 = 250mm	S_2 = 300mm
2,8	330	- 330	500	- 500	660	1,0	0,9	0,75	0,038	0,003	4,4	20-30	67	79	32	39	101	X			
									0,041	0,004	4,4	30-40	81		36	42					
4,5	540	- 540	800	- 800	1 080	1,2	1	0,75	0,061	0,006	5,1	30-40	81	92	36	42	107	X			
									0,065	0,007	5,5	40-50	95		36	42					
6,4	760	- 760	1 250	-1 250	1 520	1,3	1,2	0,75	0,085	0,016	9,7	20-30	88	114	40	52	125	X			
									0,115	0,026	12,3	30-40	110		54	64					
									0,142	0,016	8,9	40-50	95		36	45					
									0,150	0,018	9,9	50-60	110		40	48					
11	1 300	-1 300	2 000	-2 000	2 600	1,4	1,2	0,75	0,178	0,042	16,5	30-40	110	143	54	64	126	X			
									0,242	0,056	19,9	40-50	139		67	65					
									0,280	0,036	13,5	50-60	110		40	48					
									0,292	0,044	14,3	60-75	136		43	51					
17	2 000	-2 000	3 150	-3 150	4 000	1,5	1,2	0,75	0,370	0,061	20,9	40-50	139	150	67	65	126		X		
									0,442	0,072	22,1	50-60	146		80	69					
									0,511	0,052	15,7	60-75	136		43	56					
									0,535	0,070	19,1	75-90	155		50	62					
28	3 300	-3 300	5 000	-5 000	6 600	1,6	1,5	0,75	0,634	0,108	27,4	50-60	146	174	80	72	149		X		
									0,749	0,136	31,4	60-75	168		101	77					
									0,842	0,160	24,0	75-90	155		50	64					
									0,867	0,150	32,2	90-105	177		55	68					
45	5 400	-5 400	8 000	-8 000	10 800	2,0	1,6	0,75	1,037	0,225	41,9	60-75	168	205	101	79	170			X	
									1,172	0,251	43,9	75-90	184		118	85					
									1,279	0,237	40,1	90-105	177		55	69					
									1,299	0,275	41,3	105-120	204		64	76					
64	7 600	-7 600	12 500	-12 500	15 200	2,1	2,7	0,75	1,346	0,426	60,9	75-90	184	227	118	92	253				X
									1,440	0,572	72,9	90-105	226		138	98,5					
									1,516	0,386	55,1	105-120	204		64	85					
									1,531	0,572	66,5	120-135	238		79	98					
110	13 200	-13 200	20 000	-20 000	26 400	2,5	2,8	0,75	2,054	0,814	91,6	90-105	226	252	138	100	272				X
									2,146	0,962	100	105-120	256		160	112					
									2,244	0,814	83,8	120-135	238		79	99					
									2,270	1,028	94,2	135-155	267		92	110					
170	20 400	-20 400	31 500	-31 500	40 800	2,9	3,4	0,75	3,381	1,596	135	105-120	256	293	160	117	324				
									3,485	2,028	163	120-135	294		180	138					
									3,700	1,668	129	135-155	267		92	117					
									3,776	2,340	161	155-175	308		116	137					
280	33 600	-33 600	50 000	-50 000	67 200	3,2	3,70	0,75	4,873	3,260	193	120-135	294	334	180	144	356				
									5,213	4,188	249	135-155	325		145	166					
									5,461	3,280	195	155-175	308		116	143					
									5,526	4,560	237	175-195	355		136	159					
450	54 000	-54 000	80 000	-80 000	108 000	3,6	4,2	0,75	7,547	8,460	453	135-155	325	375	145	174	414				
									7,860	10,78	499	155-175	366		191	212					
									8,594	6,330	301	175-195	355		136	161					
									8,794	9,58	391	195-225	418		155	177					
640	76 800	-76 800	125 000	-125 000	153 600	4,1	4,5	0,75	10,85	11,93	492	155-175	366	416	191	215	442				
									11,51	15,95	598	175-195	412		223	242					
									12,72	13,35	468	195-225	418		155	183					
									12,97	18,55	574	225-255	468		180	204					
1100	132 000	-132 000	193 000	-193 000	264 000	4,6	5	0,75	16,71	20,41	669	175-195	412	475	223	249	505				
									18,36	28,01	751	195-225	465		244	266					
									20,00	22,59	649	225-255	468		180	211					
									20,73	35,41	831	255-295	545		212	238					
1700	204 000	-204 000	300 000	-300 000	408 000	4,8	5,40	0,75	23,47	39,09	969	195-225	465	516	244	270	568				
									24,53	47,29	1165	195-225	465		334	270					
									27,48	45,89	1009	255-295	545		212	240					
									28,30	50,69	1045	295-335	580		220	246					
2800	336 000	-336 000	500 000	-500 000	672 000	5,0	8,1	0,75				195-225	465		334	270	802				
												225-255	508		378	345					
												255-295	545		220	240					
												295-335	580		258	246					

① According to DIN 740-2:1986-08 ② According to DIN 50100:1978-02 ③ Referring to min. spacer length design ④ Referring to one flexible module
⑤ Based on 1/3 shaft penetration ⑥ These values are valid for the shaft compression. In case of keyway connection, the values need to be recalculated.

Long Spacer Coupling with Shaft Hub

Modulflex 9255-XX-3000

Welded spacer coupling design with Rexnord Koniclamp clamping hubs and spacer lengths of up to 6 meters. Spacers with lengths above 6 meters and for high speed applications also available (carbon fibre version). Floating shaft couplings are used to connect units which are relatively far apart. Such arrangements are particularly suited to transmit power into areas where moisture, dust or corrosive conditions would adversely affect the driving machinery. The operating speeds of floating shaft couplings are dependent upon the length of span required and center tube material thickness. Consult Rexnord for center tube critical speed calculation and special balancing requirements.

Features
- Disc packs are built under compression
- High precision accuracy on bolt and disc joint
- Large diameter disc connection bolts
- Torsionally tuned center member
- Disc designed for infinite dynamic load life

Benefits
- Zero backlash & joint vibration
- Requires no extra safety factor for the coupling
- High torque per outer diameter
- High potential speeds
- Minimizes bolt cycle fatigue
- Compensates for radial, angular and axial misalignment thus protecting the torque flange
- Rigid coupling to meet system torsional requirements
- Reliable performance even when the system experiences reciprocating forces
- No dynamic load life limit

Construction

Elements: Alloy steel with a typical tensile strength of 900 - 1200 N/mm

Hubs: Carbon steel

Bolts: Alloy steel

Disc Packs: Stainless steel. Max. misalignment: 0,7° per disc pack

Coatings available: Nickel plating or phosphate. Other coatings available upon request

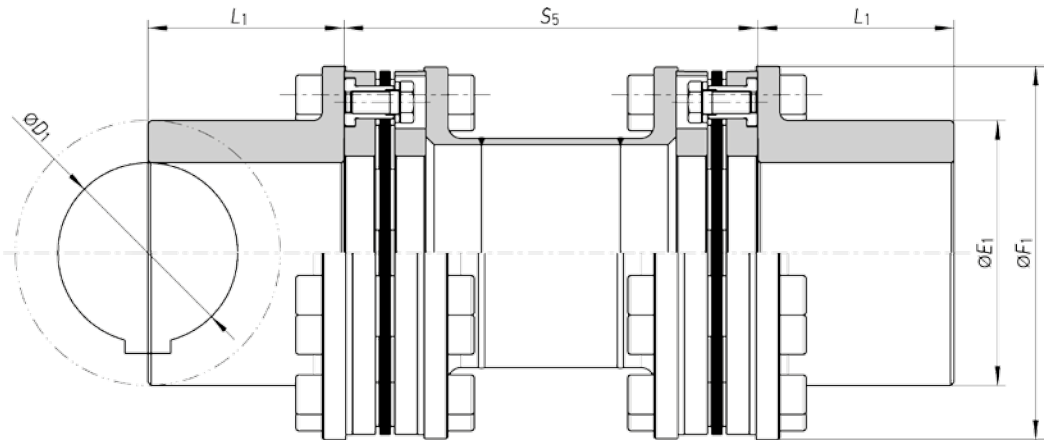
As alternative:

Elements: High-strength Aluminum 7075 to ensure low weight and inertia

Technical data almost identical to the steel version

Available coating: Hard coating to protect against corrosion and to harden the surface

Modulflex 9255-XX-3000



9255-XX-3000 DIMENSIONS

Coupling Size	Nominal Torque①	Nominal Torque①	Maximum Torque①	Maximum Torque①	Perm. Oscill. Bandwidth②	Axial Misalign-ment	Radial Misalign-ment③	Angular Misalign-ment④	Torsional Spring Rate③⑤⑥	Moment of Inertia③	Weight③	Dimensions				Distance Between Shaft Ends
	(-) T_{KN} [N·m]	(+) T_{KN} [N·m]	(+) $T_{K\,max}$ [N·m]	(-) $T_{K\,max}$ [N·m]	T_{KW} [N·m]	ΔK_a [± mm]	ΔK_r [± mm]	ΔK_w [deg]	$C_{T\,dyn}$ [MN·m/rad]	m [kg·m²]	m [kg]	$D_{1\,max}$ [mm]	E_1 [mm]	F_1 [mm]	L_1 [mm]	$S_{2\,max}$ [mm]
2,8	330	- 330	500	- 500	660	2,0	0,9	0,75	0,041	0,002	2,7	35	48	79	45	6000
4,5	540	- 540	800	- 800	1 080	2,4	1,0	0,75	0,064	0,004	4,0	44	60	92	50	6000
6,4	760	- 760	1 250	-1 250	1 520	2,6	1,2	0,75	0,148	0,012	6,8	55	75	114	55	6000
11	1 300	-1 300	2 000	-2 000	2 600	2,8	1,2	0,75	0,293	0,033	12,4	70	100	143	70	6000
17	2 000	-2 000	3 150	-3 150	4 000	3,0	1,2	0,75	0,522	0,041	13,2	80	110	150	75	6000
28	3 300	-3 300	5 000	-5 000	6 600	3,2	1,5	0,75	0,824	0,076	18,9	90	120	174	85	6000
45	5 400	-5 400	8 000	-8 000	10 800	4,0	1,6	0,75	1,251	0,196	35,8	105	145	205	110	6000
64	7 600	-7 600	12 500	-12 500	15 200	4,2	2,7	0,75	1,484	0,339	49,0	120	162	227	120	6000
110	13 200	-13 200	20 000	-20 000	26 400	5,0	2,8	0,75	2,222	0,637	74,0	135	188	252	140	6000
170	20 400	-20 400	31 500	-31 500	40 800	5,8	3,4	0,75	3,637	1,200	104	160	210	293	160	6000
280	33 600	-33 600	50 000	-50 000	67 200	6,4	3,7	0,75	5,469	2,51	168	180	250	334	180	6000
450	54 000	-54 000	80 000	-80 000	108 000	7,2	4,2	0,75	8,53	4,41	235	200	268	375	200	6000
640	76 800	-76 800	125 000	-125 000	153 600	8,2	4,5	0,75	12,53	7,64	319	240	308	416	240	6000
1100	132 000	-132 000	193 000	-193 000	264 000	9,2	5,0	0,75	20,1	15,9	512	270	358	475	270	6000
1700	204 000	-204 000	300 000	-300 000	408 000	9,6	5,4	0,75	27,1	26,3	702	300	395	516	300	6000
2800	336 000	-336 000	500 000	-500 000	672 000	10,0	8,1	0,75				350	420	602	360	6000

① According to DIN 740-2:1986-08 ② According to DIN 50100:1978-02 ③ Referring to min. spacer length design ④ Referring to one flexible module
⑤ Based on 1/3 shaft penetration ⑥ These values are valid for the shaft compression. In case of keyway connection, the values need to be recalculated.

Long Spacer Coupling with Koniclamp

Modulflex 9255-XX-4000

Welded spacer coupling design with Koniclamp hubs and spacer lengths of up to 6.000 mm. Spacers with lengths above 6.000 mm and for high speed applications also available (carbon fibre version). Floating shaft couplings are used to connect units which are relatively far apart. Such arrangements are particularly suited to transmit power into areas where moisture, dust or corrosive conditions would adversely affect the driving machinery. The operating speeds of floating shaft couplings are dependent upon the length of span required and center tube material thickness. Consult Rexnord for center tube critical speed calculation and special balancing requirements.

Features
- Disc packs are built under compression
- High precision accuracy on bolt and disc joint
- Large diameter disc connection bolts
- Torsionally tuned center member
- Disc designed for infinite dynamic load life

Benefits
- Zero backlash & joint vibration
- Requires no extra safety factor for the coupling
- High torque per outer diameter
- High potential speeds
- Minimizes bolt cycle fatigue
- Compensates for radial, angular and axial misalignment thus protecting the torque flange
- Rigid coupling to meet system torsional requirements
- Reliable performance even when the system experiences reciprocating forces
- No dynamic load life limit

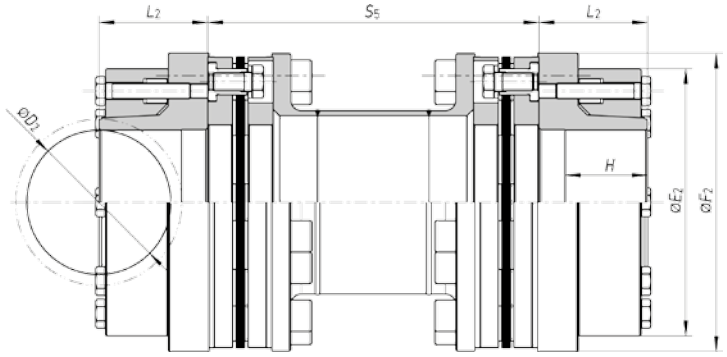
Koniclamp hubs are the recommended shaft-hub connection to ensure a backlash-free and true-running connection.

Construction
Elements and outer ring clamping hub: Alloy steel with a typical tensile strength of 900 - 1200 N/mm
Hubs: Carbon steel
Bolts: Alloy steel
Disc Packs: Stainless steel. Max. misalignment: 0,7° per disc pack
Coatings available: Nickel plating or phosphate. Other coatings available upon request

As alternative:
Elements and Koniclamp: High-strength Aluminum 7075 to ensure low weight and inertia
Technical data almost identical to the steel version
Available coating: Hard coating to protect against corrosion and to harden the surface

More information on the Koniclamp hub is available on page 7

Modulflex 9255-XX-4000



9255-XX-4000 DIMENSIONS

Coupling Size	Nominal Torque①	Nominal Torque①	Maximum Torque①	Maximum Torque①	Perm. Oscill. Bandwidth②	Axial Misalign-ment	Radial Misalign-ment③	Angular Misalign-ment④	Torsional Spring Rate③⑤⑥	Moment of Inertia③	Weight③	Dimensions					Distance Between Shaft Ends
	$(-)\ T_{KN}$ [N·m]	$(+)\ T_{KN}$ [N·m]	$(+)\ T_{K\,max}$ [N·m]	$(-)\ T_{K\,max}$ [N·m]	T_{KW} [N·m]	ΔK_a [± mm]	ΔK_r [± mm]	ΔK_w [deg]	$C_{T\,dyn}$ [MN·m/rad]	m [kg·m²]	m [kg]	D_2 [mm]	E_2 [mm]	F_2 [mm]	H [mm]	L_2 [mm]	++
2,8	330	- 330	500	- 500	660	1,0	0,9	0,75	0,038	0,003	4,4	20-30	67	79	32	39	6000
									0,041	0,004	4,4	30-40	81		36	42	
4,5	540	- 540	800	- 800	1 080	1,2	1	0,75	0,061	0,006	5,1	30-40	81	92	36	42	6000
									0,065	0,007	5,5	40-50	95		36	42	
6,4	760	- 760	1 250	-1 250	1 520	1,3	1,2	0,75	0,085	0,016	9,7	20-30	88	114	40	52	6000
									0,115	0,026	12,3	30-40	110		54	64	
									0,142	0,016	8,9	40-50	95		36	45	
									0,150	0,018	9,9	50-60	110		40	48	
11	1 300	-1 300	2 000	-2 000	2 600	1,4	1,2	0,75	0,178	0,042	16,5	30-40	110	143	54	64	6000
									0,242	0,056	19,9	40-50	139		67	65	
									0,280	0,036	13,5	50-60	110		40	48	
									0,292	0,044	14,3	60-75	136		43	51	
17	2 000	-2 000	3 150	-3 150	4 000	1,5	1,2	0,75	0,370	0,061	20,9	40-50	139	150	67	65	6000
									0,442	0,072	22,1	50-60	146		80	69	
									0,511	0,052	15,7	60-75	136		43	56	
									0,535	0,070	19,1	75-90	155		50	62	
28	3 300	-3 300	5 000	-5 000	6 600	1,6	1,5	0,75	0,634	0,108	27,4	50-60	146	174	80	72	6000
									0,749	0,136	31,4	60-75	168		101	77	
									0,842	0,160	24,0	75-90	155		50	64	
									0,867	0,150	32,2	90-105	177		55	68	
45	5 400	-5 400	8 000	-8 000	10 800	2,0	1,6	0,75	1,037	0,225	41,9	60-75	168	205	101	79	6000
									1,172	0,251	43,9	75-90	184		118	85	
									1,279	0,237	40,1	90-105	177		55	69	
									1,299	0,275	41,3	105-120	204		64	76	
64	7 600	-7 600	12 500	-12 500	15 200	2,1	2,7	0,75	1,346	0,426	60,9	75-90	184	227	118	92	6000
									1,440	0,572	72,9	90-105	226		138	98,5	
									1,516	0,386	55,1	105-120	204		64	85	
									1,531	0,572	66,5	120-135	238		79	98	
110	13 200	-13 200	20 000	-20 000	26 400	2,5	2,8	0,75	2,054	0,814	91,6	90-105	226	252	138	100	6000
									2,146	0,962	100	105-120	256		160	112	
									2,244	0,814	83,8	120-135	238		79	99	
									2,270	1,028	94,2	135-155	267		92	110	
170	20 400	-20 400	31 500	-31 500	40 800	2,9	3,4	0,75	3,381	1,596	135	105-120	256	293	160	117	6000
									3,485	2,028	163	120-135	294		180	138	
									3,700	1,668	129	135-155	267		92	117	
									3,776	2,340	161	155-175	308		116	137	
280	33 600	-33 600	50 000	-50 000	67 200	3,2	3,70	0,75	4,873	3,260	193	120-135	294	334	180	144	6000
									5,213	4,188	249	135-155	325		145	166	
									5,461	3,280	195	155-175	308		116	143	
									5,526	4,560	237	175-195	355		136	159	
450	54 000	-54 000	80 000	-80 000	108 000	3,6	4,2	0,75	7,547	8,460	453	135-155	325	375	145	174	6000
									7,860	10,78	499	155-175	366		191	212	
									8,594	6,330	301	175-195	355		136	161	
									8,794	9,58	391	195-225	418		155	177	
640	76 800	-76 800	125 000	-125 000	153 600	4,1	4,5	0,75	10,85	11,93	492	155-175	366	416	191	215	6000
									11,51	15,95	598	175-195	412		223	242	
									12,72	13,35	468	195-225	418		155	183	
									12,97	18,55	574	225-255	468		180	204	
1100	132 000	-132 000	193 000	-193 000	264 000	4,6	5	0,75	16,71	20,41	669	175-195	412	475	223	249	6000
									18,36	28,01	751	195-225	465		244	266	
									20,00	22,59	649	225-255	468		180	211	
									20,73	35,41	831	255-295	545		212	238	
1700	204 000	-204 000	300 000	-300 000	408 000	4,8	5,40	0,75	23,47	39,09	969	195-225	465	516	244	270	6000
									24,53	47,29	1165	195-225	465		334	270	
									27,48	45,89	1009	255-295	545		212	240	
									28,30	50,69	1045	295-335	580		220	246	
2800	336 000	-336 000	500 000	-500 000	672 000	5,0	8,1	0,75				195-225	465		334	270	6000
												225-255	508		378	345	
												255-295	545		220	240	
												295-335	580		258	246	

① According to DIN 740-2:1986-08 ② According to DIN 50100:1978-02 ③ Referring to min. spacer length design ④ Referring to one flexible module
⑤ Based on 1/3 shaft penetration ⑥ These values are valid for the shaft compression. In case of keyway connection, the values need to be recalculated.

Coupling with Adapter and Shaft Hub

Modulflex 9275-XX-3000

Spacer coupling design with flywheel adapter and finished bored hub. Modulflex 9275 couplings are used in heavy-duty, medium speed applications where high-starting torque, shock loads, torque reversals or continuous alternating torque are present. The open lug type center member provides ample clearance for assembly while minimizing the space required for coupling installation.

Features
- Disc packs are built under compression
- High precision accuracy on bolt and disc joint
- Large diameter disc connection bolts
- Disc designed for infinite dynamic load life

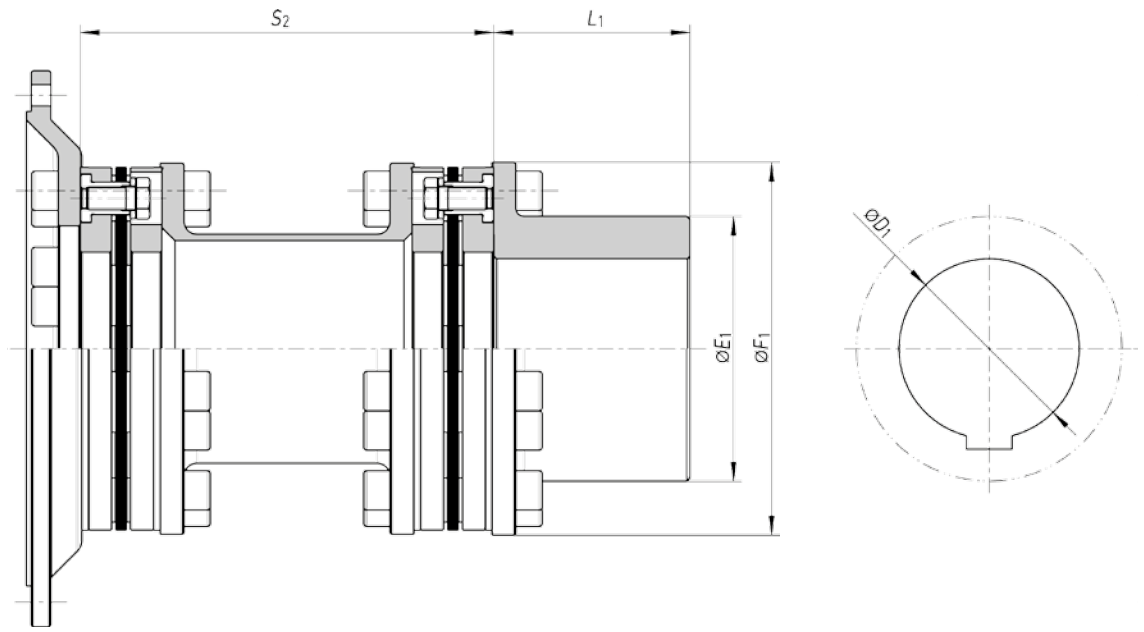
Benefits
- Zero backlash & joint vibration
- Requires no extra safety factor for the coupling
- High torque per outer diameter
- High potential speeds
- Minimizes bolt cycle fatigue
- Compensates for radial, angular and axial misalignment thus protecting the torque flange
- Rigid coupling to meet system torsional requirements
- Reliable performance even when the system experiences reciprocating forces
- No dynamic load life limit

Construction
Elements: Alloy steel with a typical tensile strength of 900 - 1200 N/mm

Hubs and spacer < 500 mm: Carbon steel
Spacer > 500 mm: Carbon steel, carbon fibre
Bolts: Alloy steel
Disc Packs: Stainless steel. Max. misalignment: 0,7° per disc pack
Coatings available: Nickel plating or phosphate.
Other coatings available upon request

As alternative:
Elements and spacer < 500 mm: High-strength Aluminum 7075 to ensure low weight and inertia
Technical data almost identical to the steel version
Available coating: Hard coating to protect against corrosion and to harden the surface

Modulflex 9275-XX-3000



9275-XX-3000 DIMENSIONS

Coupling Size	Nominal Torque①	Nominal Torque①	Maximum Torque①	Maximum Torque①	Perm. Oscill. Bandwidth②	Axial Misalign-ment	Radial Misalign-ment③	Angular Misalign-ment④	Torsional Spring Rate③⑤⑥	Moment of Inertia③	Weight③	Dimensions				Distance Between Shaft Ends				
	(-) T_{KN} [N·m]	(+) T_{KN} [N·m]	(+) $T_{K\,max}$ [N·m]	(-) $T_{K\,max}$ [N·m]	T_{KW} [N·m]	ΔK_a [± mm]	ΔK_r [± mm]	ΔK_w [deg]	$C_{T\,dyn}$ [MN·m/rad]	m [kg·m²]	m [kg]	$D_{1\,max}$ [mm]	E_1 [mm]	F_1 [mm]	L_1 [mm]	$S_{2\,min}$ [mm]	S_2 = 140mm	S_2 = 180mm	S_2 = 250mm	S_2 = 300mm
2,8	330	- 330	500	- 500	660	2,0	0,9	0,75	0,043	0,002	2,3	35	48	79	45	101	X			
4,5	540	- 540	800	- 800	1 080	2,4	1,0	0,75	0,066	0,004	3,3	44	60	92	50	107	X			
6,4	760	- 760	1 250	-1 250	1 520	2,6	1,2	0,75	0,152	0,010	5,6	55	75	114	55	125	X			
11	1 300	-1 300	2 000	-2 000	2 600	2,8	1,2	0,75	0,3	0,027	9,7	70	100	143	70	126	X			
17	2 000	-2 000	3 150	-3 150	4 000	3,0	1,2	0,75	0,539	0,033	10,2	80	110	150	75	126		X		
28	3 300	-3 300	5 000	-5 000	6 600	3,2	1,5	0,75	0,859	0,062	14,8	90	120	174	85	149		X		
45	5 400	-5 400	8 000	-8 000	10 800	4,0	1,6	0,75	1,297	0,158	27,7	105	145	205	110	170			X	
64	7 600	-7 600	12 500	-12 500	15 200	4,2	2,7	0,75	1,532	0,275	38,3	120	162	227	120	253				X
110	13 200	-13 200	20 000	-20 000	26 400	5,0	2,8	0,75	2,287	0,507	56,5	135	188	252	140	272				X
170	20 400	-20 400	31 500	-31 500	40 800	5,8	3,4	0,75	3,78	0,980	82	160	210	293	160	324				
280	33 600	-33 600	50 000	-50 000	67 200	6,4	3,7	0,75	5,632	2,001	130	180	250	334	180	356				
450	54 000	-54 000	80 000	-80 000	108 000	7,2	4,2	0,75	8,887	3,625	187	200	268	375	200	414				
640	76 800	-76 800	125 000	-125 000	153 600	8,2	4,5	0,75	13,11	6,23	243	240	308	416	240	442				
1100	132 000	-132 000	193 000	-193 000	264 000	9,2	5,0	0,75	20,96	12,93	405	270	358	475	270	505				
1700	204 000	-204 000	300 000	-300 000	408 000	9,6	5,4	0,75	28,29	21,48	565	300	395	516	300	568				
2800	336 000	-336 000	500 000	-500 000	672 000	10,0	8,1	0,75				350	420	602	360	802				

① According to DIN 740-2:1986-08 ② According to DIN 50100:1978-02 ③ Referring to min. spacer length design ④ Referring to one flexible module
⑤ Based on 1/3 shaft penetration ⑥ These values are valid for the shaft compression. In case of keyway connection, the values need to be recalculated.

Coupling with Adapter and Koniclamp

Modulflex 9275-XX-4000

Spacer coupling design with flywheel adapter and Koniclamp clamping hub. Modulflex 9275 couplings are used in heavy-duty, medium speed applications where high-starting torque, shock loads, torque reversals or continuous alternating torque are present. The open lug type center member provides ample clearance for assembly while minimizing the space required for coupling installation.

Features
- Disc packs are built under compression
- High precision accuracy on bolt and disc joint
- Large diameter disc connection bolts
- Disc designed for infinite dynamic load life

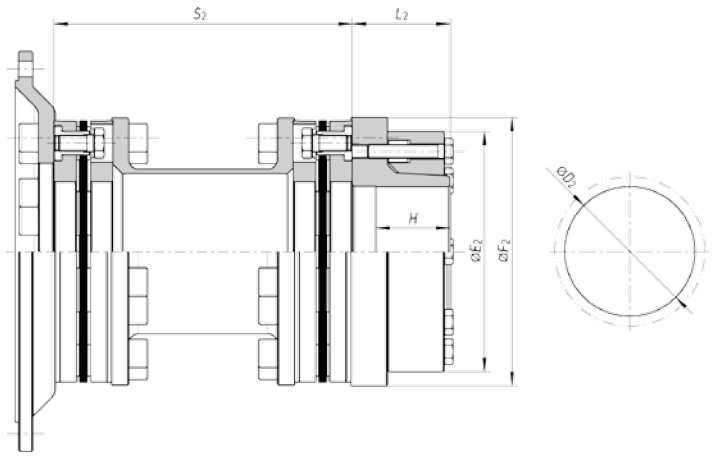
Benefits
- Zero backlash & joint vibration
- Requires no extra safety factor for the coupling
- High torque per outer diameter
- High potential speeds
- Minimizes bolt cycle fatigue
- Compensates for radial, angular and axial misalignment thus protecting the torque flange
- Rigid coupling to meet system torsional requirements
- Reliable performance even when the system experiences reciprocating forces
- No dynamic load life limit

Koniclamp hubs are the recommended shaft-hub connection to ensure a backlash-free and true-running connection.

Construction
Elements and outer ring clamping hub: Alloy steel with a typical tensile strength of 900 - 1200 N/mm
Hubs and spacer < 500 mm: Carbon steel
Spacer > 500 mm: Carbon steel, carbon fibre
Bolts: Alloy steel
Disc Packs: Stainless steel. Max. misalignment: 0,7° per disc pack
Coatings available: Nickel plating or phosphate. Other coatings available upon request

As alternative:
Elements, Koniclamp and spacer <500 mm: High-strength Aluminum 7075 to ensure low weight and inertia
Technical data almost identical to the steel version
Available coating: Hard coating to protect against corrosion and to harden the surface

Modulflex 9275-XX-4000



9255-XX-4000 DIMENSIONS

Coupling Size	Nominal Torque①	Nominal Torque①	Maximum Torque①	Maximum Torque①	Perm. Oscill. Bandwidth②	Axial Misalign-ment	Radial Misalign-ment③	Angular Misalign-ment④	Torsional Spring Rate③	Moment of Inertia③	Weight③	Dimensions					Distance Between Shaft Ends				
	(-) T_{KN} [N·m]	(+) T_{KN} [N·m]	(+) $T_{K\,max}$ [N·m]	(-) $T_{K\,max}$ [N·m]	T_{KW} [N·m]	ΔK_a [± mm]	ΔK_r [± mm]	ΔK_w [deg]	$C_{T\,dyn}$ [MN·m/rad]	m [kg·m²]	m [kg]	D_2 [mm]	E_2 [mm]	F_2 [mm]	H [mm]	L_2 [mm]	$S_{2\,min}$ [mm]	S_2 = 140mm	S_2 = 180mm	S_2 = 250mm	S_2 = 300mm
2,8	330	- 330	500	- 500	660	1,0	0,9	0,75	0,041	0,002	3,1	20-30	67	79	32	39	101	X			
									0,043	0,003	3,1	30-40	81		36	42					
4,5	540	- 540	800	- 800	1 080	1,2	1	0,75	0,064	0,005	3,8	30-40	81	92	36	42	107	X			
									0,067	0,005	4,0	40-50	95		36	42					
6,4	760	- 760	1 250	-1 250	1 520	1,3	1,2	0,75	0,110	0,012	7,1	20-30	88	114	40	52	125	X			
									0,133	0,017	8,4	30-40	110		54	64					
									0,149	0,012	6,7	40-50	95		36	45					
									0,153	0,013	7,2	50-60	110		40	48					
11	1 300	-1 300	2 000	-2 000	2 600	1,4	1,2	0,75	0,226	0,031	11,6	30-40	110	143	54	64	126	X			
									0,271	0,038	13,3	40-50	139		67	65					
									0,293	0,028	10,1	50-60	110		40	48					
									0,299	0,032	10,5	60-75	136		43	51					
17	2 000	-2 000	3 150	-3 150	4 000	1,5	1,2	0,75	0,445	0,043	13,9	40-50	139	150	67	65	126		X		
									0,493	0,048	14,5	50-60	146		80	69					
									0,533	0,038	11,3	60-75	136		43	56					
									0,546	0,047	13,0	75-90	155		50	62					
28	3 300	-3 300	5 000	-5 000	6 600	1,6	1,5	0,75	0,743	0,079	19,0	50-60	146	174	80	72	149		X		
									0,817	0,093	21,0	60-75	168		101	77					
									0,869	0,105	17,3	75-90	155		50	64					
									0,882	0,100	21,4	90-105	177		55	68					
45	5 400	-5 400	8 000	-8 000	10 800	2,0	1,6	0,75	1,172	0,171	30,2	60-75	168	205	101	79	170			X	
									1,254	0,184	31,2	75-90	184		118	85					
									1,312	0,177	29,3	90-105	177		55	69					
									1,323	0,196	29,9	105-120	204		64	76					
64	7 600	-7 600	12 500	-12 500	15 200	2,1	2,7	0,75	1,455	0,319	43,9	75-90	184	227	118	92	253				X
									1,508	0,392	49,9	90-105	226		138	98,5					
									1,548	0,299	41,0	105-120	204		64	85					
									1,556	0,392	46,7	120-135	238		79	98					
110	13 200	-13 200	20 000	-20 000	26 400	2,5	2,8	0,75	2,195	0,592	64,8	90-105	226	252	138	100	272				X
									2,246	0,666	69	105-120	256		160	112					
									2,299	0,592	60,9	120-135	238		79	99					
									2,312	0,699	66,1	135-155	267		92	110					
170	20 400	-20 400	31 500	-31 500	40 800	2,9	3,4	0,75	3,637	1,168	96	105-120	256	293	160	117	324				
									3,696	1,384	110	120-135	294		180	138					
									3,814	1,204	93	135-155	267		92	117					
									3,854	1,540	109	155-175	308		116	137					
280	33 600	-33 600	50 000	-50 000	67 200	3,2	3,70	0,75	5,296	2,360	139	120-135	294	334	180	144	356				
									5,491	2,824	167	135-155	325		145	166					
									5,625	2,370	140	155-175	308		116	143					
									5,660	3,010	161	175-195	355		136	159					
450	54 000	-54 000	80 000	-80 000	108 000	3,6	4,2	0,75	8,322	5,620	292	135-155	325	375	145	174	414				
									8,509	6,78	315	155-175	366		191	212					
									8,922	4,555	216	175-195	355		136	161					
									9,028	6,18	261	195-225	418		155	177					
640	76 800	-76 800	125 000	-125 000	153 600	4,1	4,5	0,75	12,13	8,54	338	155-175	366	416	191	215	442				
									12,53	10,55	391	175-195	412		223	242					
									13,21	9,25	326	195-225	418		155	183					
									13,35	11,85	379	225-255	468		180	204					
1100	132 000	-132 000	193 000	-193 000	264 000	4,6	5	0,75	18,96	15,01	473	175-195	412	475	223	249	505				
									19,98	18,81	514	195-225	465		244	266					
									20,91	16,10	463	225-255	468		180	211					
									21,30	22,51	554	255-295	545		212	238					
1700	204 000	-204 000	300 000	-300 000	408 000	4,8	5,40	0,75	26,18	27,59	679	195-225	465	516	244	270	568				
									26,82	31,69	777	195-225	465		334	270					
									28,49	30,99	699	255-295	545		212	240					
									28,93	33,39	717	295-335	580		220	246					
2800	336 000	-336 000	500 000	-500 000	672 000	5,0	8,1	0,75				195-225	465		334	270	802				
												225-255	508		378	345					
												255-295	545		220	240					
												295-335	580		258	246					

① According to DIN 740-2:1986-08 ② According to DIN 50100:1978-02 ③ Referring to min. spacer length design ④ Referring to one flexible module

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