



Reliance[®]

Precision Mechatronics



**Standard and Customised
Components and Assemblies**

A complete source for precise motion control

Flexible Shaft Couplings, Clutches and Collars

∞



Precision couplings

Reli-a-Flex®, Spiral Beam, Oldham, Bellows, Twin Disc and Solid Couplings. Ideal for encoders, motors, servo systems and rotary applications.



Reli-a-Flex® Couplings

A unique patented slot pattern which improves system accuracy, reduces dynamic loads and extends system life



Precision Couplings

Stainless steel bellows and disc type



General Purpose

Oldham, membrane, curved jaw, spiral beam and radial tooth



Clutches

Help protect mechanical actuators from damage by not exceeding maximum acceptable torque



Shaft Clamp Collars

Single and double width collars
One-piece set screw and threaded collars

Section Contents

| | |
|--|-----------|
| Reliance Couplings and Collars Selection Guide | Page 8-2 |
| Reli-a-Flex® Couplings General Overview | Page 8-4 |
| Reli-a-Flex® Micro Couplings | Page 8-6 |
| Reli-a-Flex® Precision Couplings, Set Screw Type | Page 8-8 |
| Reli-a-Flex® Precision Couplings, Clamp Type | Page 8-10 |
| Reli-a-Flex® Couplings, Reli-a-Grip™ Clamp Type | Page 8-12 |
| Custom Reli-a-Flex® Couplings | Page 8-14 |
| Stocked Reli-a-Flex® Couplings | Page 8-15 |
| Bellows Precision Couplings | Page 8-16 |
| Flexible Disc Spring Couplings | Page 8-22 |
| Oldham Couplings | Page 8-28 |
| Membrane Couplings | Page 8-30 |
| Curved Jaw Couplings | Page 8-34 |
| Micro Spiral Beam Couplings | Page 8-36 |
| Spiral Beam Couplings | Page 8-37 |
| Spiral Beam Stainless Steel Couplings | Page 8-42 |
| Radial Tooth Couplings | Page 8-44 |
| Friction Clutches | Page 8-45 |
| Solid Couplings | Page 8-49 |
| Double Width Shaft Slamp Collars | Page 8-50 |
| Shaft Clamp Collars | Page 8-51 |
| One-Piece Threaded Collars | Page 8-52 |
| One-Piece Set Screw Collars | Page 8-53 |

For Technical Information
please see [Page T8-1](#)

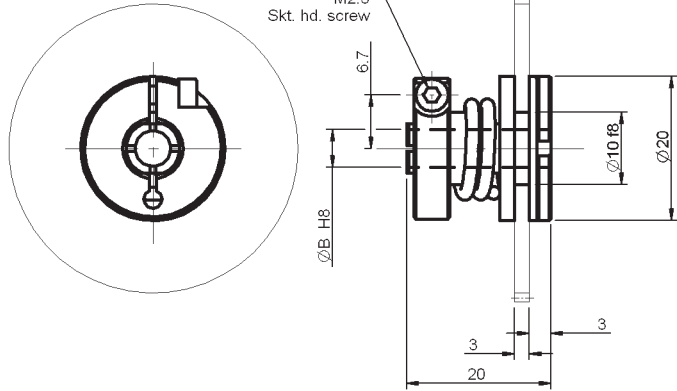
Associated Products

Shafts: [page 11-2](#)
 Bearings: [page 12-1](#)
 Leadscrews: [page 7-1](#)
 Stepper motors: [page 2-1](#)

All dimensions in mm
 General tolerances ± 0.13 mm
 Material:
 Flange - Steel
 Lining - Nylatron

| H8 | |
|-----------|-----------|
| Bore Size | Tolerance |
| 4 | +0.018 |
| 5 | |
| 6 | |

| f8 | |
|-----------|------------------|
| Shaft Dia | Tolerance |
| 10 | -0.013 -0.035 |



Technical specifications

| Part Number | Bore ØB | Max Speed min ⁻¹ | Max Adjustable Torque Ncm | Moment of Inertia gcm ² | Max Screw Torque Ncm | Material | | Approx Weight g |
|-------------------------------|------------|--------------------------------|------------------------------|---------------------------------------|-------------------------|---------------------------------|---------------|--------------------|
| | | | | | | Flange | Clutch Lining | |
| RRKSK-2020-04 | 4 | 50 | 30 | 8.4 | 100 | 9S Mn Pb 28 (Black finished) | Nylatron | 20 |
| RRKSK-2020-05 | 5 | | | | | | | |
| RRKSK-2020-06 | 6 | | | | | | | |

Note: Gear not included, manufactured on request, please enquire

Technical features

- Zero backlash before slipping
- Maintenance free
- Recommended temperature range -10°C to +50°C
- Protects actuators from torque damage
- Adjustable torque setting

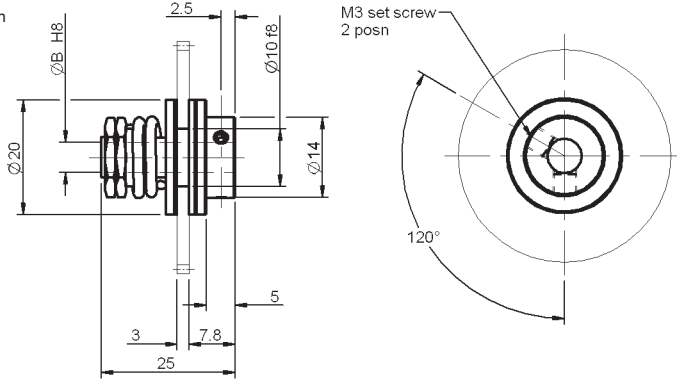




4 - 6mm Bore

Friction Clutch Set Screw Hub

All dimensions in mm
 General tolerances $\pm 0.13\text{mm}$
 Material:
 Flange - Steel
 Lining - Nylatron



Associated Products
 Shafts: [page 11-2](#)
 Bearings: [page 12-1](#)
 Leadscrews: [page 7-1](#)
 Stepper motors: [page 2-1](#)

| H8 | |
|-----------|-----------|
| Bore Size | Tolerance |
| 4 | +0.018 |
| 5 | |
| 6 | |

| f8 | |
|-----------|-----------|
| Shaft Dia | Tolerance |
| 10 | -0.013 |
| | -0.035 |

Part number selection and technical table

| Part Number | Bore ØB | Max Speed min ⁻¹ | Max Adjustable Torque Ncm | Moment of Inertia gcm ² | Max Screw Torque Ncm | Material | | Approx Weight g |
|---|-------------|--------------------------------|------------------------------|---------------------------------------|-------------------------|---------------------------------|---------------|--------------------|
| | | | | | | Flange | Clutch Lining | |
| RRKSS-2025-04 RRKSS-2025-05 RRKSS-2025-06 | 4 5 6 | 50 | 30 | 8.4 | 80 | 9S Mn Pb 28 (Black finished) | Nylatron | 23 |

Note: Gear not included, manufactured on request, please enquire

Technical features

- Zero backlash before slipping
- Maintenance free
- Recommended temperature range -10°C to +50°C
- Protects actuators from torque damage
- Adjustable torque setting



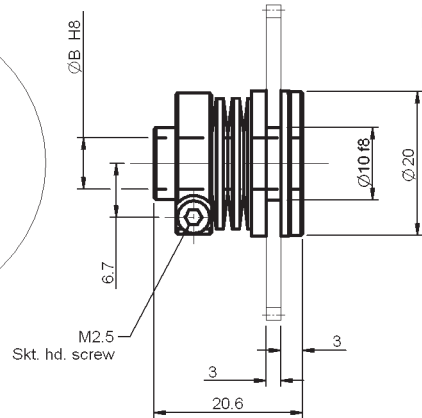
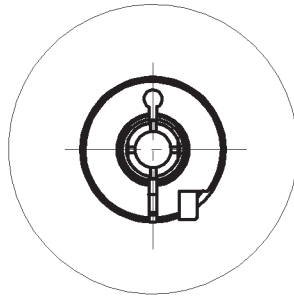
Associated Products

Shafts: [page 11-2](#)
 Bearings: [page 12-1](#)
 Leadscrews: [page 7-1](#)
 Stepper motors: [page 2-1](#)

All dimensions in mm
 General tolerances $\pm 0.13\text{mm}$
 Material:
 Flange - Steel
 Lining - Nylatron

| H8 | |
|-----------|-----------|
| Bore Size | Tolerance |
| 4 | +0.018 |
| 5 | |
| 6 | |

| f8 | |
|-----------|------------------|
| Shaft Dia | Tolerance |
| 10 | -0.013 -0.035 |



Technical specifications

| Part Number | Bore $\varnothing B$ | Max Speed min^{-1} | Max Adjustable Torque Ncm | Moment of Inertia gcm^2 | Max Screw Torque Ncm | Material | | Approx Weight g |
|-------------------------------|-------------------------|--------------------------------|------------------------------|-------------------------------------|-------------------------|---------------------------------|---------------|--------------------|
| | | | | | | Flange | Clutch Lining | |
| RRKTK-2020-04 | 4 | 40 | 120 | 13.2 | 100 | 9S Mn Pb 28 (Black finished) | Nylatron | 23 |
| RRKTK-2020-05 | 5 | | | | | | | |
| RRKTK-2020-06 | 6 | | | | | | | |

Technical features

- Zero backlash before slipping
- Maintenance free
- Recommended temperature range -10°C to $+50^{\circ}\text{C}$
- Protects actuators from torque damage
- Adjustable torque setting

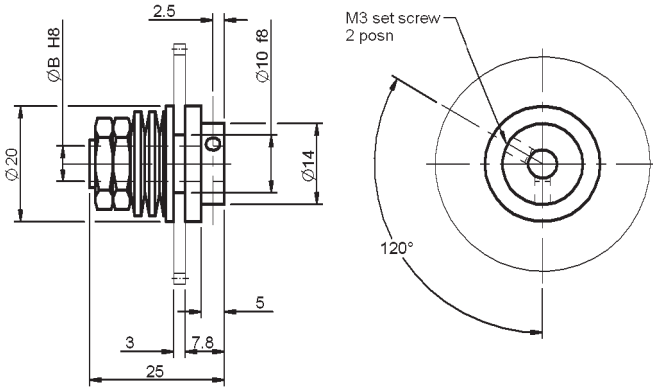


4 - 6mm Bore

Friction Clutch Set Screw Hub

All dimensions in mm
 General tolerances $\pm 0.13\text{mm}$
 Material:
 Flange - Steel
 Lining - Nylatron

Associated Products
 Shafts: [page 11-2](#)
 Bearings: [page 12-1](#)
 Leadscrews: [page 7-1](#)
 Stepper motors: [page 2-1](#)



| H8 | |
|-----------|-----------|
| Bore Size | Tolerance |
| 4 | +0.018 |
| 5 | |
| 6 | |

| f8 | |
|-----------|-----------|
| Shaft Dia | Tolerance |
| 10 | -0.013 |
| | -0.035 |

Technical specifications

| Part Number | Bore ØB | Max Speed min ⁻¹ | Max Adjustable Torque Ncm | Moment of Inertia gcm ² | Max Screw Torque Ncm | Material | | Approx Weight g |
|-------------------------------|------------|--------------------------------|------------------------------|---------------------------------------|-------------------------|---------------------------------|---------------|--------------------|
| | | | | | | Flange | Clutch Lining | |
| RRKTS-2025-04 | 4 | 40 | 120 | 9.9 | 80 | 9S Mn Pb 28 (Black finished) | Nylatron | 25 |
| RRKTS-2025-05 | 5 | | | | | | | |
| RRKTS-2025-06 | 6 | | | | | | | |

8

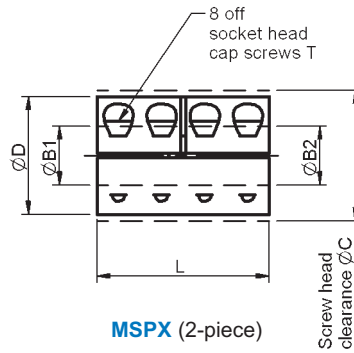
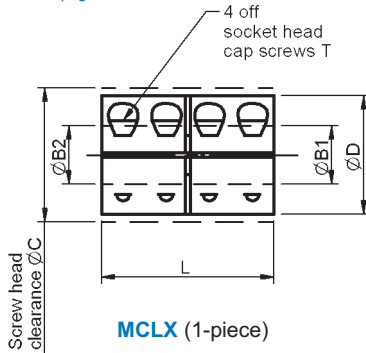
Technical features

- Zero backlash before slipping
- Maintenance free
- Recommended temperature range -10°C to +50°C
- Protects actuators from torque damage
- Adjustable torque setting

Associated Products

Shafts: [page 11-2](#)
 Bearings: [page 12-1](#)
 Leadscrews: [page 7-1](#)
 Stepper motors: [page 2-1](#)

All dimensions in mm
 Materials:
 Aluminium alloy
 grade 2024.T351
 Stainless steel
 grade 18.8 type 303
 Screws C12L14



Part number selection table

| Example Part No:- MCLX - A - 3-3 | | | Dimensions (mm) | | | | |
|--|-------------------|----------|--|-----------|-------------|------|------------------|
| Basic Part Number | Material | Size Ref | Standard Bore Sizes ØB1 and ØB2 (bore tolerance +0.050/-0.012) | O/D ØD | Length L | ØC | Clamp Screw T |
| MCLX (1-piece) | A* (Aluminium) | 3 | 3 | 15 | 22 | 15.0 | M2 |
| | | 4 | 4 | 15 | 22 | 15.0 | M2 |
| | | 5 | 5 | 15 | 22 | 15.0 | M2 |
| MSPX (2-piece) | SS (St. steel) | 6 | 6 | 18 | 30 | 21.5 | M3 |
| | | 8 | 8 | 24 | 35 | 27.1 | M3 |
| | | 10 | 10 | 29 | 45 | 33.0 | M4 |

*Aluminium is only available on MCLX

Non-standard options, please contact our sales team

- Non-standard bore sizes, including imperial
- Set screw clamping
- Stainless steel screws

Technical features

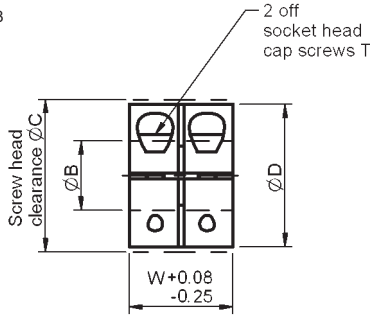
- Does not mark the shaft
- Nypatch® anti-vibration hardware
- Precision honed bore
- MSPX, two-piece style is balanced by opposing hardware and is easily disassembled and maintained
- Max speed: 4,000 rpm
- Recommended temperature range:
 Stainless steel -40°C to +175°C
 Aluminium -40°C to +100°C



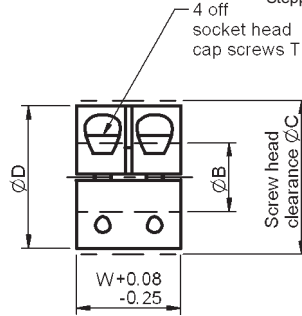


All dimensions in mm
 Materials:
 Aluminium alloy
 grade 2024.T351
 Stainless steel
 grade 18.8 type 303
 Screws C12L14

Associated Products
 Shafts: [page 11-2](#)
 Bearings: [page 12-1](#)
 Leadscrews: [page 7-1](#)
 Stepper motors: [page 2-1](#)



MWCL (1-piece)



MWSP (2-piece)

Part number selection table

| Example Part No:- MWCL - A - 6 | | | Dimensions (mm) | | | | |
|--|--------------------------|-----------|---|-----------|------------|------------------------|--|
| Basic Part Number | Material | Size | Standard Bore Sizes ØB (bore tolerance +0.050/-0.012) | O/D ØD | Width W | Clamp Screw ØC T | |
| MWCL (1-piece) | A* (Aluminium) | 6 | 6 | 16 | 20 | 20.8 | |
| MWSP (2-piece) | SS (St. steel) | 8 | 8 | 18 | 20 | 22.4 | |
| | | 10 | 10 | 24 | 20 | 26.3 | |

*Aluminium is only available on MWCL

Non-standard options, please contact our sales team

- Non-standard bore sizes, including imperial
- Set screw clamping
- Stainless steel screws

Technical features

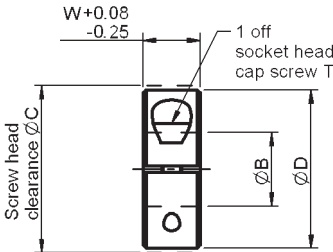
- Does not mark the shaft
- Integral location face
- Excellent for high axial loads
- MWSP, two-piece style is balanced by opposing hardware and is easily disassembled and maintained
- Transmits torque in confined spaces
- Recommended temperature range:
 Stainless steel -40°C to +175°C
 Aluminium -40°C to +100°C



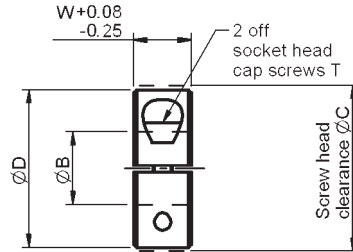
Associated Products

Shafts: [page 11-2](#)
 Bearings: [page 12-1](#)
 Leadscrews: [page 7-1](#)
 Stepper motors: [page 2-1](#)

All dimensions in mm
 Materials:
 Aluminium alloy
 grade 2024.T351
 sulphuric anodised
 Stainless steel
 grade 18.8 type 303
 Screws C12L14



MCL (1-piece)



MSP (2-piece)

Part number selection table

| Example Part No:- MCL - A - 3 | | | Dimensions (mm) | | | | |
|---|--------------------------|-----------|--------------------------------------|-----|-------|-------------|----|
| Basic Part Number | Material | Size | Standard Bore Sizes | O/D | Width | Clamp Screw | |
| | | | ØB (bore tolerance +0.050/-0.012) | ØD | W ØC | | |
| MCL (1-piece) | A (Aluminium) | 3 | 3 | 16 | 9 | 20.8 | M3 |
| | | 4 | 4 | 16 | 9 | 20.8 | M3 |
| | | 5 | 5 | 16 | 9 | 20.8 | M3 |
| | | 6 | 6 | 16 | 9 | 20.8 | M3 |
| MSP (2-piece) | SS (St. steel) | 7 | 7 | 18 | 9 | 22.4 | M3 |
| | | 8 | 8 | 18 | 9 | 22.4 | M3 |
| | | 9 | 9 | 24 | 9 | 26.3 | M3 |
| | | 10 | 10 | 24 | 9 | 26.3 | M3 |

Non-standard options, please contact our sales team

- Non-standard bore sizes, including imperial
- Plastic collars available
- Stainless steel screws
- 316 stainless steel available

Technical features

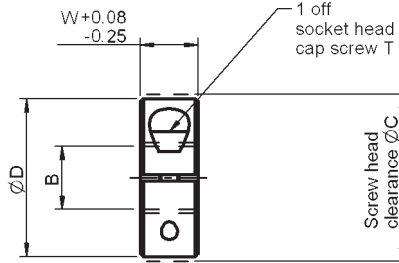
- Does not mark shaft
- Integral location face
- MSP, two-piece style is balanced by opposing hardware and is easily disassembled and maintained
- Pre-drilled face holes
- Recommended temperature range:
 Stainless steel -40°C to +175°C
 Aluminium -40°C to +90°C





All dimensions in mm
 Material:
 Stainless steel
 grade 18.8 type 303
 Screws C12L14

Associated Products
 Shafts: [page 11-2](#)
 Bearings: [page 12-1](#)
 Leadscrews: [page 7-1](#)
 Stepper motors: [page 2-1](#)



MTCL (threaded)

Part number selection table

| Example Part No:- MTCL - SS - 4 | | | Dimensions (mm) | | | | |
|------------------------------------|-------------------|------|-----------------------|-----|-------|------|---------------|
| Basic Part Number | Material | Size | Standard Thread Sizes | O/D | Width | ØC | Clamp Screw T |
| | | | B | ØD | W | | |
| MTCL | SS (St. steel) | 4 | M4x0.7 | 16 | 9 | 20.8 | M3 |
| | | 5 | M5x0.8 | 16 | 9 | 20.8 | M3 |
| | | 6 | M6x1 | 16 | 9 | 20.8 | M3 |
| | | 8 | M8x1.25 | 18 | 9 | 22.4 | M3 |
| | | 10 | M10x1.5 | 24 | 9 | 26.3 | M3 |

Non-standard options, please contact our sales team

- Non-standard thread sizes, including imperial
- Stainless steel screws
- Acme and left-hand threads available
- Additional sizes available

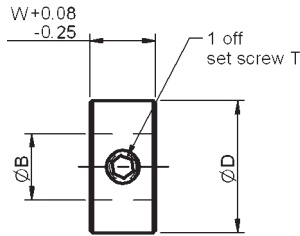
Technical features

- Does not mark shaft
- Integral location face



Associated Products
 Shafts: [page 11-2](#)
 Bearings: [page 12-1](#)
 Leadscrews: [page 7-1](#)
 Stepper motors: [page 2-1](#)

All dimensions in mm
 Material: Stainless steel
 grade 18.8 type 303
 Screws C12L14



MSC (set screw)

Part number selection table

| Example Part No:- MSC - SS - 4 | | | Dimensions (mm) | | | |
|--|--------------------------|-----------|---|-----------|------------|----------------|
| Basic Part Number | Material | Size | Standard Bore Sizes ØB (bore tolerance +0.01/+0.05) | O/D ØD | Width W | Set Screw T |
| MSC | SS (St. steel) | 4 | 4 | 8 | 5 | M2.5X3 |
| | | 5 | 5 | 10 | 6 | M3X4 |
| | | 6 | 6 | 12 | 8 | M4X4 |
| | | 8 | 8 | 16 | 8 | M4X4 |
| | | 10 | 10 | 20 | 10 | M5X5 |

Non-standard options, please contact our sales team

- Non-standard bore sizes, including imperial
- Stainless steel screws
- Plastic collars available

Technical features

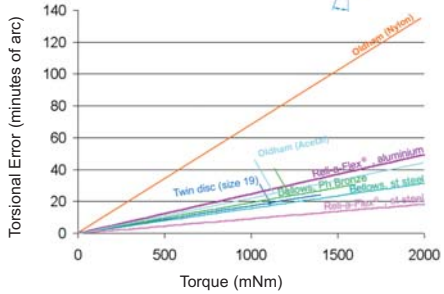
- Forged socket set screw



TORSIONAL STIFFNESS

This is the characteristic that describes the angular deflection when a torque is applied. High torsional stiffness contributes to increased accuracy and system response. It is essential for accurate feedback applications. Applications that are subject to shock loads may require a less stiff coupling to reduce the peak torques and avoid premature failure or slipping clamps.

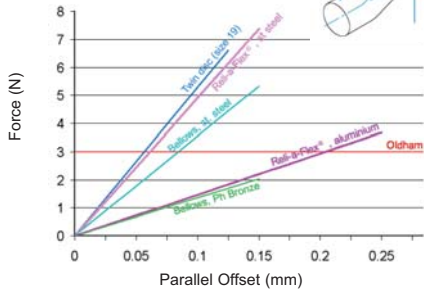
Test samples are standard products with a nominal O.D of 20mm



RADIAL COMPLIANCE

This is the characteristic that describes the force the coupling applies on the support bearings when the shafts are misaligned. High radial compliance is essential to provide low bearing loads.

Test samples are standard products with a nominal O.D of 20mm

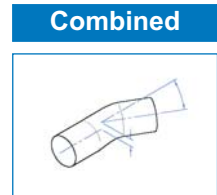
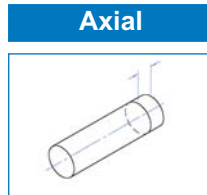
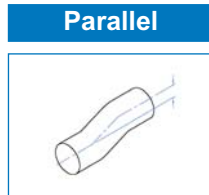


TORQUE CAPACITY

In general, the rated torque figures are based on $>10^6$ torque reversals and the peak torque should not be applied for more than 1% of the duty cycle.

SHAFT MISALIGNMENT

The most common type of misalignment is a combination of angular, parallel and axial misalignment and occurs due to the build-up of tolerances as associated parts are assembled together. As these accumulate randomly, worst-case misalignment should be calculated and used to select the correct coupling to avoid premature failure.



TRANSMISSION ERROR

Often referred to as kinematic error, this is the total error in the driven shaft position with respect to the driving shaft position. In a system the following factors must be individually considered to determine their overall effect.

- a. Backlash internal clearance related
- b. Torsional wind up torsional stiffness related
- c. Velocity error coupling design related

a. Backlash

Is the amount of free rotational movement inherent in the coupling under zero or near zero torsional loads. Only the Oldham coupling type in this catalogue is susceptible to slight backlash.

b. Torsional wind up

In applications where the resistance is frictional, the driven shaft will experience a position lag, which will double with direction reversal, proportional to the torsional stiffness.

During operating mode, the inertia and the torque will cause a momentary lag but this will not be seen at standstill.

c. Velocity error

In general, couplings with double flexing elements (Reli-a-Flex®, Bellows and Twin disc couplings) will introduce negligible velocity errors.

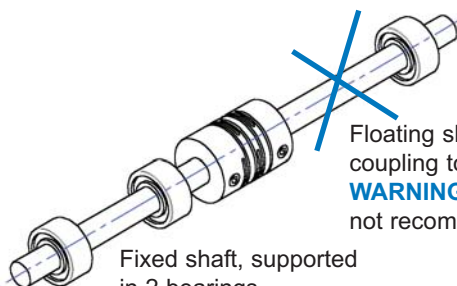
Velocity errors occur with angular misalignment and are proportional to shaft angle. Only the Oldham coupling type in this catalogue is susceptible to this error.

LUBRICATION

This is not required on any of the couplings in this catalogue.

FLOATING SHAFTS

We do not recommend the use of couplings in this catalogue for floating shafts, where one or both ends of a shaft are supported by a coupling.



Floating shaft, relies on the coupling to support one end.
WARNING: This arrangement is not recommended.



TORSIONAL RESONANCE

The torsional natural frequencies of a system are dependent on the mass/elastic characteristics of the various inertias and connecting shafts. Torsional resonance can occur under certain conditions when the natural frequency of the system is close to the excitation frequency of the driving system. It is most likely to occur when the load is predominantly inertial and can occur in closed loop position or velocity control systems, leading to torsional vibrations which in severe circumstances can destroy the coupling.

Choosing a coupling that operates well above or well below the operating frequencies can help to avoid premature failure.

The resonant frequency of a system can be calculated from the following:

$$F_R = 1/2\pi \times \sqrt{(1/J_M + 1/J_L) \times 10.8/\pi \times C_T}$$

where

- F_R = Resonant frequency (Hz)
- J_M = Motor inertia (Kgm²)
- J_L = Load inertia (Kgm²)
- C_T = Coupling torsional stiffness (mNm/min)

RELI-A-FLEX® INSTALLATION

Couplings are available with either clamp or set screw mounting. Clamp fastening, both Reli-a-Grip™ and traditional, allows repeated repositioning of the coupling on the shaft leaving the shaft unmarked. The effectiveness of the clamp is dependent on the diameter being a 'close' fit in the coupling bore. Use of Reliance components will ensure that the clamp works correctly.

Set screws provide an effective but non-adjustable means of connecting couplings and shafts. Ideally the shafts should have a small flat in the area of the screw, which allows the set screw to seat below the surface of the shaft.

OLDHAM COUPLING AND COLLAR INSTALLATION

Oldham Couplings

Ensure that the misalignment between shafts is within the coupling's ratings. Slide a hub onto each shaft to be joined with the drive tenons facing each other. Rotate the hubs on the shaft so the drive tenons are located 90° from each other. Place a torque disc so one groove fits over the drive tenons of a hub and centre the disc by hand.

Insert a shim with the thickness of the coupling's axial motion rating into the groove of the torque disc. Slide the tenons of the second hub into the mating groove in the disc until it touches the shim stock.

Fully tighten the screw(s) on each hub to their recommended seating torque. Remove the shim stock to leave a small gap between the top of the drive tenons and the torque disc to allow for axial movement.



Rigid Couplings

Align the coupling on the two shafts to be connected. Tighten the Nypatch® clamp screws in two stages. Starting with the inside screws, tighten to half of the recommended seating torque. Repeat for the outside screws, again tightening to half of the recommended seating torque (on two-piece collars be sure to maintain the gap between the two halves of the coupling during installation). Tighten screws to the full recommended seating torque following the same pattern, beginning with the inside screws.

Shaft Collars

Use collars as they are received.

Wipe the bore clean and apply a thin coat of light oil to the shaft. Place collar in desired location on shaft and tighten the collar until a slight resistance is felt (on two-piece collars be sure to maintain the gap between the two halves of the collar during installation). Bring collar into final position and tighten screws to the full recommended seating torque.



In addition to these conditions of sale, our standard Conditions of Sale also apply. A copy of these is available on request and from our website www.rpmechatronics.co.uk/en/help

Minimum order charge - Orders are subject to a minimum order charge of £25.00 unless they have been placed on our website at www.rpmechatronics.co.uk

Carriage and packing - Additional charges are made for carriage and packing.

Payment - Payment terms are 30 days. New customers are requested to complete an application form for a credit account. Customers who do not have a credit account with Reliance are requested to supply cheque with order. In addition, orders may be paid for by Visa and Mastercard.

Telephone orders - An order number must be quoted by customers and a written confirmatory order, clearly marked "CONFIRMATION", sent within 7 days. We reserve the right to supply parts against a telephone order. All telephone orders are accepted subject to these conditions of sale and those detailed on the acknowledgement of order. An acknowledgement will normally be sent by Reliance on receipt of order and goods will be supplied in accordance with the order acknowledgement.

Certificates of Conformance - Reliance's quality management system is certified to AS9100 and ISO 9001. A Certificate of Conformance can be supplied at an additional charge of £10.00 per delivery. Alternatively, a Certificate with full material traceability can be supplied at a charge of £20.00 per delivery.

Confirmation - All orders, other than telephone orders with a value of less than £500 and orders placed through our website, are subject to acceptance in writing by Reliance Precision Mechatronics.

Order amendments - Order amendments are subject to our approval and a charge will be made for reasonable compensation for any costs incurred.

Returns - Unused items may, solely at our discretion, be accepted for credit within 90 days of delivery. Any parts so accepted will be subject to a 20% service charge for re-inspection and handling. No credit can be allowed after the above period, or for any used or modified part, or for parts manufactured to a customer's specification.

Additional charges - Reliance reserves the right to charge for all additional expenses and taxes incurred over and above published prices (including without limitation duty, VAT, exchange rate fluctuations etc.)

Alterations - As a result of continuous product development, Reliance reserves the right to alter prices and other details without prior notice and to change dimensions where this does not affect the function of the item.

Contact details:

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