



StandardFor all standard encoders



Impuls Plus
For encoders with
maximum accuracy



CompactThe very short design



IndustryFor robust
industrial encoders

Controlflex®

Controlflex® is the ideal coupling for encoders.

Controlflex® is a compact, electrically-insulating, precise shaft coupling with excellent kinematic properties.

Modular construction makes it possible to realize all possible bore combinations from stock.

Standard

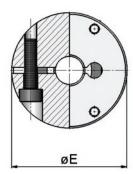
The optimal choice for all standard encoders and tachos. The Standard series offers a balanced design of precision with very low restoring forces and it exactly meets the requirements of today's encoders.

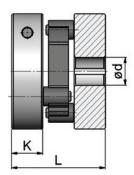




▶ Controlflex® ▶ Standard

For all standard encoders







	ØE (mm)	L (mm)	Ød _{max} (mm)	Ød _{min} (mm)	K (mm)	m (kg)	J (kg cm²)	T _{KN} (Nm)	TK max (Nm)	ΔK _r (mm)	ΔK_{w} (°)	ΔK _a (mm)	n _{max} (1/min)	C _R (N)
CPS 8.1	19	16	10	3	5,6	0,01	0,004	0,3	0,7	0,4	1,5	0,3	25.000	3
CPS 10.1	25	25,5	12	4	9,5	0,03	0,02	0,7	1	0,7	1,5	0,5	22.000	3,4
CPS 15.1	37	30	20	5	10	0,06	0,11	2	3	1	1,5	0,7	15.000	4,4

CPS 15.1	Ø10 Ø10
Type Controlflex® Standard CPS 15.1	bore diameters



service factor

uniform	1
light shocks	1,5
medium shocks	2
heavy shocks	2,5

- 2. Select a coupling size that has a continuos torque rating grater than your calculated design torque.
- Make sure that the peak torque of the application does not exceed the maximum torque rating of the coupling.
- 4. Please check the coupling maximum speed to be sure it is within the rated maximum speed.
- Make sure that the misalignment capability is sufficient. There is a trade-off between the radial, axial and angular misalignment capabilities. Be certain that the combined percentages of each do not exceed 100%.

Legend

Performance

T _{KN}	continuous torque rating of the coupling (Nm)
T _{K max}	maximum torque capacity of the coupling (Nm)
n _{max}	maximum speed of the coupling (1/min)
$\Delta \rm K_r$	maximum radial misalignment capacity (mm)
$\Delta {\rm K_{_a}}$	maximum axial misalignment capacity (mm)
$\Delta {\rm K_w}$	maximum angular misalignment capacity (°)
C _R	restoring forces at 0,2 mm radial misalignment (N)
J	moment of inertia (kg cm²)

ØE	coupling diameter (mm)						
L	coupling length (mm)						
K	clamp hub length (mm)						
$Ød_{max}$	maximum bore diameter (mm)						
$Ød_{min}$	minimum bore diameter (mm)						
m	weight of the coupling (kg)						





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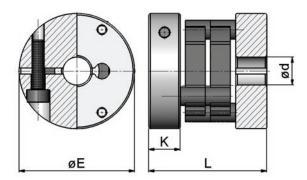
Modular construction makes it possible to realize all possible bore combinations from stock.

Impuls Plus

The Controlflex® series for encoders with maximum accuracy. It is predestined for encoders using a graduated disk with increased line counts or with fine measuring signals.

▶ Controlflex® **▶** Impuls Plus

For encoders with maximum accuracy





	ØE (mm)	L (mm)	Ød _{max} (mm)	Ød _{min} (mm)	K (mm)	m (kg)	J (kg cm²)	T _{KN} (Nm)	T _{K max} (Nm)	ΔK _r (mm)	ΔK_{w} (°)	$\Delta K_{\rm a}$ (mm)	n _{max} (1/min)	C _R (N)
CPS 8.2	19	20	10	3	5,6	0,01	0,01	0,6	1,4	0,4	1	0,3	25.000	6
CPS 10.2	25	31	12	4	9,5	0,03	0,02	1,4	2	0,7	1	0,5	22.000	6,8
CPS 15.2	37	38	20	5	10	0,07	0,12	4	6	1	1	0,7	15.000	8,8

CPS 8.2	Ø10 Ø10
Type Controlflex® Impuls Plus CPS 8.2	bore diameters



service factor

uniform	1
light shocks	1,5
medium shocks	2
heavy shocks	2,5

- 2. Select a coupling size that has a continuos torque rating grater than your calculated design torque.
- Make sure that the peak torque of the application does not exceed the maximum torque rating of the coupling.
- 4. Please check the coupling maximum speed to be sure it is within the rated maximum speed.
- Make sure that the misalignment capability is sufficient. There is a trade-off between the radial, axial and angular misalignment capabilities. Be certain that the combined percentages of each do not exceed 100%.

Legend

Performance

T _{KN}	continuous torque rating of the coupling (Nm)
T _{K max}	maximum torque capacity of the coupling (Nm)
n _{max}	maximum speed of the coupling (1/min)
$\Delta \rm K_r$	maximum radial misalignment capacity (mm)
$\Delta {\rm K_{_a}}$	maximum axial misalignment capacity (mm)
$\Delta {\rm K_w}$	maximum angular misalignment capacity (°)
C _R	restoring forces at 0,2 mm radial misalignment (N)
J	moment of inertia (kg cm²)

ØE	coupling diameter (mm)						
L	coupling length (mm)						
K	clamp hub length (mm)						
$Ød_{max}$	maximum bore diameter (mm)						
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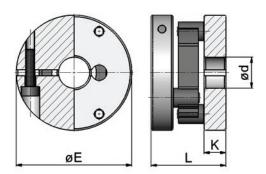
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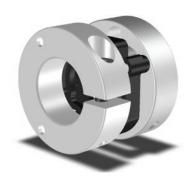
Controlflex® is a compact, electrically-insulating, precise shaft coupling with excellent kinematic properties.

Modular construction makes it possible to realize all possible bore combinations from stock.

Compact

The very short design, especially designed for encoder applications where the coupling is integrated into a very tight axial space. As an example where the coupling is mounted in a fixed housing.





	ØE (mm)	L (mm)	Ød _{max} (mm)	Ød _{min} (mm)	K (mm)	m (kg)	J (kg cm²)	T _{KN} (Nm)	T _{K max} (Nm)	∆K, (mm)	ΔK_{w} (°)	ΔK _a (mm)	n _{max} (1/min)	C _R (N)
CPS 9.1	25	20,5	12	4	7	0,02	0,02	0,7	1	0,4	1,5	0,5	22.000	3,4
CPS 14.1	37	24	22	5	7	0,04	0,1	2	3	1	1,5	0,7	15.000	4,4

CPS 14.1	Ø10 Ø10
Type Controlflex® Compact CPS 14.1	bore diameters

service factor

uniform	1
light shocks	1,5
medium shocks	2
heavy shocks	2,5

- 2. Select a coupling size that has a continuos torque rating grater than your calculated design torque.
- Make sure that the peak torque of the application does not exceed the maximum torque rating of the coupling.
- 4. Please check the coupling maximum speed to be sure it is within the rated maximum speed.
- Make sure that the misalignment capability is sufficient. There is a trade-off between the radial, axial and angular misalignment capabilities. Be certain that the combined percentages of each do not exceed 100%.

Legend

Performance

T _{KN}	continuous torque rating of the coupling (Nm)
T _{K max}	maximum torque capacity of the coupling (Nm)
n _{max}	maximum speed of the coupling (1/min)
$\Delta \rm K_r$	maximum radial misalignment capacity (mm)
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$\Delta {\rm K_w}$	maximum angular misalignment capacity (°)
C _R	restoring forces at 0,2 mm radial misalignment (N)
J	moment of inertia (kg cm²)

ØE	coupling diameter (mm)
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K	clamp hub length (mm)
$Ød_{max}$	maximum bore diameter (mm)
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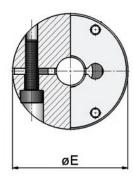
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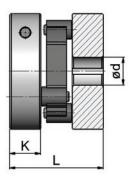
Controlflex® is a compact, electrically-insulating, precise shaft coupling with excellent kinematic properties.

Modular construction makes it possible to realize all possible bore combinations from stock.

Industry

The Controlflex® series, designed for robust industrial encoders with larger shaft diameters up to 40 mm.







	ØE (mm)	L (mm)	Ød _{max} (mm)	Ød _{min} (mm)	K (mm)	m (kg)	J (kg cm²)	T _{KN} (Nm)	TK max (Nm)	ΔK, (mm)	ΔK_{w} (°)	∆K _a (mm)	n _{max} (1/min)	C _R (N)
CPS 23.1	56	45	30	8	15	0,2	0,92	7	10	1,5	1,5	1	10.000	6,8
CPS 30.1	75	57	40	10	18	0,43	3,8	15	22	2	1,5	1,5	10.000	10

CPS 30.1	Ø16 Ø20
Type Controlflex® Industry CPS 30.1	bore diameters



service factor

uniform	1
light shocks	1,5
medium shocks	2
heavy shocks	2,5

- 2. Select a coupling size that has a continuos torque rating grater than your calculated design torque.
- Make sure that the peak torque of the application does not exceed the maximum torque rating of the coupling.
- 4. Please check the coupling maximum speed to be sure it is within the rated maximum speed.
- Make sure that the misalignment capability is sufficient. There is a trade-off between the radial, axial and angular misalignment capabilities. Be certain that the combined percentages of each do not exceed 100%.

Legend

Performance

T _{KN}	continuous torque rating of the coupling (Nm)
T _{K max}	maximum torque capacity of the coupling (Nm)
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$\Delta \rm K_r$	maximum radial misalignment capacity (mm)
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C _R	restoring forces at 0,2 mm radial misalignment (N)
J	moment of inertia (kg cm²)

ØE	coupling diameter (mm)
L	coupling length (mm)
K	clamp hub length (mm)
$Ød_{max}$	maximum bore diameter (mm)
$Ød_{min}$	minimum bore diameter (mm)
m	weight of the coupling (kg)