Double loop couplings

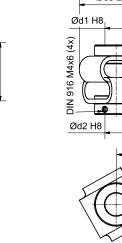
Resistant to petrol, oil, benzene, toluenes, alcohol, solvents and other chemicals

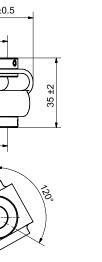


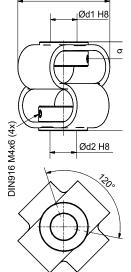
Ø29 ±1

Ød2 H8









Ø48 ±1

		\vee \vee
Double loop coupling DSK29	Double loop coupling DSK38	Double loop coupling DSK48
3,000 rpm	3,000 rpm	3,000 rpm
50 Ncm	150 Ncm	200 Ncm
±2.0 mm ±2.0 mm ± 10°	±2.5 mm ±3.0 mm ±10°	±3.0 mm ±4.0 mm ±12°
13 Nm/rad	25 Nm/rad	28 Nm/rad
13 N/mm	15 N/mm	7 N/mm
41 gcm ²	104 gcm ²	106 gcm ²
100 Ncm	200 Ncm	100 Ncm
33 g	48 g	85 g
-30 °C up to +80 °C	-30 °C up to +80 °C	-30 °C up to +80 °C
Flange: steel galvanized conecting element: polyurethane	Flange: steel galvanized conecting element: polyurethane	Flange: steel galvanized conecting element: polyurethane
dsk29	dsk38	dsk48
d1d2Order no.66DSK290606610DSK29061088DSK290808810DSK2908101010DSK291010	d1d2Order no.66DSK380606610DSK380610612DSK38061288DSK380808810DSK380810812DSK3808121010DSK3810101012DSK3810121212DSK381212	 d1 d2 Order no. 10 10 DSK481010 10 12 DSK481012 12 12 DSK481212 14 14 DSK481414

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- Delighted customers
- Corporate responsibility
- Attractive for good employees

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- Technology leader
- Environmental protection
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The development and manufacturing of rotary encoders, engine feedback devices and complete measuring systems for use in a wide range of serial production applications in mechanical and plant engineering. An extensive standard range featuring numerous options and efficient development of customised solutions.

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Couplings ... as an accessory for encoders





- Quick and easy to install
- Available from stock

Your distributor:

Couplings as an accessory for encoder WDG

Wachendorff couplings

can compensate for axial, radial and angular misalignment up to certain orders of magnitude, thus protecting the bearings of the encoder against excessive loads. They also prevent negative influences, such as vibrations or strong temperature fluctuations, from affecting the encoder.

The following is a list of important questions when choosing the right coupling:

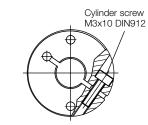
- Which shaft diameters does it have to connect to, and how much installation space is available?
- Should the frictional connection between the encoder and the coupling hub be carried out via a screw or a clamp connection?
- What is the max. rotational speed that the coupling must be able to transfer?
- What is the torque on the coupling?
- What is the max. lateral, angular and axial misalignment that must be offset?
- Is electric insulation required?
- Is the torsional stiffness sufficient for the application?
- The criteria are the resolution of the encoder and the required accuracy of positioning.

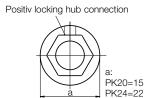
We will be happy to supply you with couplings that match your encoders and meet your requirements. They can be mounted without play, with an optimal fit for the encoders.

There is a wide range of couplings to choose from; the respective system will be selected





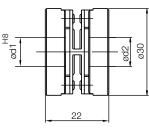




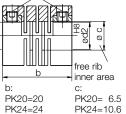
Set-screws M4x4 DIN916

8 8 PK240808 8 10 PK240810 10 10 PK241010

All dimensions in mm



12 12 FSK221212



	Type		Spring disc coupling FSK22	Slit coupling PK20 / PK24	E
	Max. operating speed		12,000 rpm	12,000 rpm / 10,000 rpm	
	Max. torque		60 Ncm	30 Ncm / 80 Ncm	
	Max. offset of shafts	radial axial angular	± 0.3 mm ± 0.4 mm ± 2.5°	± 0.3 mm ± 0.2 mm / ± 0.3 mm ± 2.5° / ± 3°	±
	Torsion spring stiffnes	S	30 Nm/rad	12 Nm/rad / 38 Nm/rad	
	Radial spring stiffness		45 N/mm	45 N/mm / 115 N/mm	
	Moment of inertia		35 gcm ²	2 gcm ² / 7 gcm ²	9
	Max. clamping torque		120 Ncm	70 Ncm / 120 Ncm	
,	Weight approx.		30 g	6 g / 10 g	
;	Temperature		-10 °C up to +80 °C	-10 °C up to +80 °C	-(
	Material		Flange: Aluminium, anodised Membran: Polyamid 6.6, fiberglass reinforced	Polyamid fiberglass reinforced, Hubs: brass	Flang Be
	http://www.wachendor	ff-automation.com/	fsk22	pk20 / pk24	
	Size in mm: Ø d1, Ø d2; order number(s)		d1 d2 Order no. 6 6 FSK220606 6 10 FSK220610 10 10 FSK221010 10 12 FSK221012	d1 d2 Order no. 6 6 PK200606 6 6 PK240606 6 8 PK240608 6 10 PK240610	(



according to the requirements in the application.

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• Double loop coupling: high axial offset; made of acid and alkali resistant, insulating plastic.



• Spring disc coupling: pluggable, insulating, efficient.



• Slit coupling: when electrical isolation is required; compact and efficient; made of plastic.



• Bellows coupling: high speed, fast movements.



• Jointed coupling: for difficult installation situations, such as when the encoder completes the shaft and it's no longer possible to access the connection (pluggable) retrospectively; made of insulating plastic, free of play, small size.



• Helical coupling: suitable for reverse operation / change of direction; high torsional stiffness.

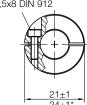
http://www.wachendorff-automation.com/couplings

Technical Data:

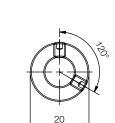


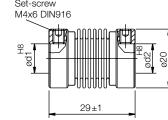




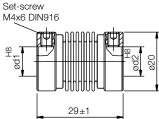


29±1





12 12 FB29B1212







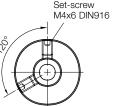






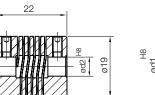


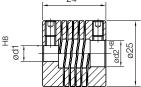


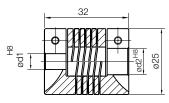












Bellows coupling BK29	Bellows coupling FB29B	Jointed coupling ST27	Helical coupling WK22	Helical coupling WK24	Helical coupling WK32
10,000 rpm	10,000 rpm	10,000 rpm	8,000 rpm	8,000 rpm	6,000 rpm
120 Ncm	120 Ncm	100 Ncm	60 Ncm	100 Ncm	120 Ncm
± 0.25 mm/± 0.30 mm* ± 0.4 mm ± 4°	± 0.25 mm ± 0.4 mm ± 4°	± 0.1 mm ± 0.3 mm ± 0.5°	± 0.25 mm ± 0.4 mm ± 3.5°	± 0.3 mm ± 0.5 mm ± 4°	± 0.35 mm ± 0.5 mm ± 4°
150 Nm/rad	150 Nm/rad	18 Nm/rad	9 Nm/rad	20 Nm/rad	18 Nm/rad
25 N/mm	25 N/mm	-	40 N/mm	60 N/mm	50 N/mm
9 gcm ² / 15 gcm ^{2*}	8 gcm ²	79 gcm ²	6.7 gcm ²	22.2 gcm ²	30 gcm ²
100 Ncm	150 Ncm	188 Ncm	80 Ncm	120 Ncm	120 Ncm
15 g / 17 g*	15 g	25 g	13 g	26 g	35 g
-30 °C up to +120 °C	-30 °C up to +120 °C	-30 °C up to +120 °C	-30 °C up to +150 °C	-30 °C up to +150 °C	-30 °C up to +150 °C
Flange: Aluminium, anodised, Bellows: stainless steel	Flange: Aluminium, anodised, Bellows: stainless steel	Hub: Aluminium Adapter: POM	Aluminium chromised	Aluminium chromised	Aluminium chromised

bk29	fb29b	st27	wk22	wk24	wk32
d1 d2 Order no. 6 6 BK290606 6 10 BK290610 6 12 BK290612* 8 8 BK290808 10 10 BK291010 10 12 BK291012* 12 12 BK291212*	d1 d2 Order no. 4 4 FB29B0404 4 6 FB29B0406 6 6 FB29B0606 6 10 FB29B0610 6 12 FB29B0612 8 8 FB29B0808 10 10 FB29B1010	d1 d2 Order no. 6 6 ST270606 10 10 ST271010	d1 d2 Order no. 6 6 WK220606	d1d2Order no.66WK24060668WK240608610WK24061088WK2408081010WK2410101212WK241212	d1 d2 Order no. 06 10 WK320610 10 10 WK321010
	10 12 FB29B1012				E 1605-

