

Stromag Couplings SVKL, SVW and SVR



 **Stromag**[®]
Altra Industrial Motion

Stromag

Founded in 1932, Stromag has grown to become a globally recognized leader in the development and manufacture of innovative power transmission components for industrial drivetrain applications. Stromag engineers utilize the latest design technologies and materials to provide creative, energy-efficient solutions that meet their customer's most challenging requirements.

Stromag's extensive product range includes flexible couplings, disc brakes, limit switches, an array of hydraulically, pneumatically, and electrically actuated brakes, and a complete line of electric, hydraulic and pneumatic clutches.

Stromag engineered solutions improve drivetrain performance in a variety of key markets including energy, off-highway, metals, marine, transportation, printing, textiles, and material handling on applications such as wind turbines, conveyor systems, rolling mills, agriculture and construction machinery, municipal vehicles, forklifts, cranes, presses, deck winches, diesel engines, gensets and stage machinery.

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Altra Motion

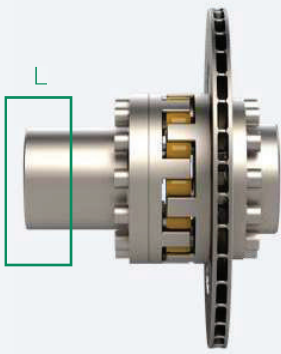
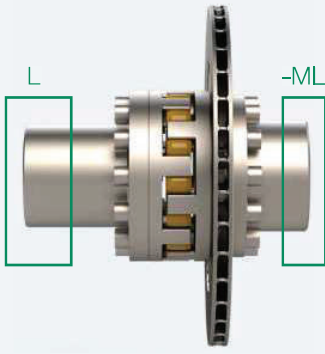
Altra is a leading global designer and producer of a wide range of electromechanical power transmission and motion control components and systems. Providing the essential control of equipment speed, torque, positioning, and other functions, Altra products can be used in nearly any machine, process or application involving motion. From engine braking systems for heavy duty trucks to precision motors embedded in medical robots to brakes used on offshore wind turbines, Altra has been serving customers around the world for decades.

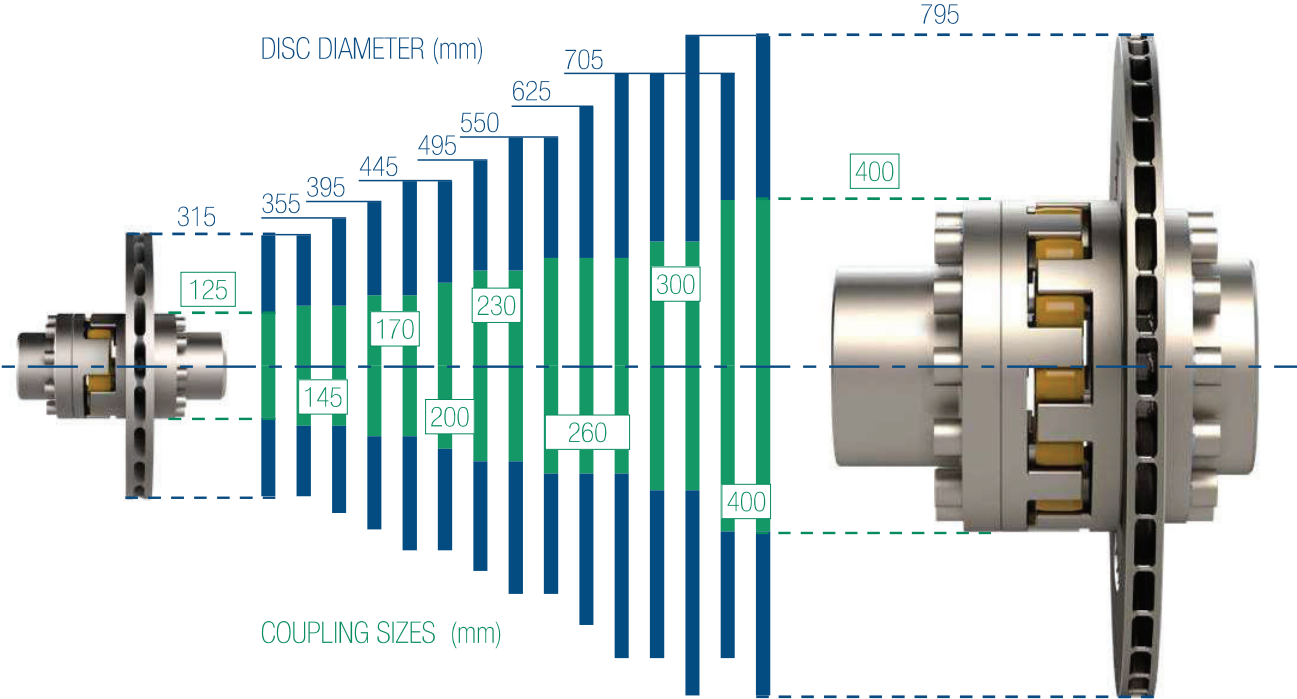
Altra's leading brands include **Ameridrives**, **Bauer** Gear Motor, **Bibby** Turboflex, **Boston** Gear, **Delevan**, **Delroyd** Worm Gear, **Formsprag** Clutch, **Guardian** Couplings, **Huco**, **Jacobs** Vehicle Systems, **Kilian**, **Kollmorgen**, **Lamiflex** Couplings, **Marland** Clutch, **Matrix**, **Nuttall** Gear, **Portescap**, **Stieber**, **Stromag**, **Svendborg** Brakes, **TB Wood's**, **Thomson**, **Twiflex**, **Warner** Electric, **Warner** Linear and **Wichita** Clutch.

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STROMAG SVKL COUPLINGS SIZES

SERIES SVK	SERIES SVKL	SERIES SVKL-ML
Total length: 244 - 464 mm	Total length: 287 - 577 mm	Total length: 320 - 637 mm
		



STROMAG ELASTIC COUPLINGS RANGES

SERIES SVW

Max. torque: 40 - 26.700 Nm

SERIES SVR

Max. torque: 750 - 26.700 Nm

SERIES SVK

Max. torque: 750 - 26.700 Nm

Rubber element type **V**: Hardness shore 93 A allows higher misalignment but lower torque transmission



SERIES SDW

Max. torque: 350 - 40.050 Nm

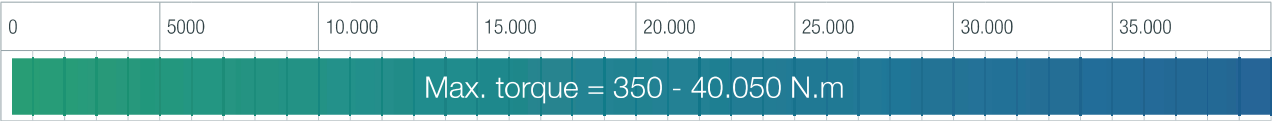
SERIES SDR

Max. torque: 1110 - 39.700 Nm

SERIES SDK

Max. torque: 1110 - 39.700 Nm

Rubber element type **D**: Hardness shore 60 D allows lower misalignment but higher torque transmission



STROMAG SVKL, SVW AND SVR COUPLINGS

BENEFITS INCLUDE

- The Stromag SVKL Elastic Disc Couplings, SVW and SVR Elastic Couplings offer economical and high performance solutions for torques transmission.
- They allow easy installation and maintenance with :
 - Easy assembly and dismantling without moving the machines back
 - No lubrication requirements
 - Easy replacement of the rubber elements
- A large range of sizes and discs diameters enable:
 - A large range of transmissible torques
 - Adaptation to all installation configurations
 - Ventilated and optionally solid discs.
- The rubber element offer many advantages:
 - Torsional vibrations damping
 - Noise reduction
 - Electrical insulation
 - Shock load accomodation
 - Balance of angular, radial and axial misalignments within tolerances.
- Two rubber element hardnesses differentiated by 2 colors:
 - **V**: Shore 93 A allowing higher misalignment (Yellow)
 - **D**: Shore 60 D allowing higher torque transmission (Green)



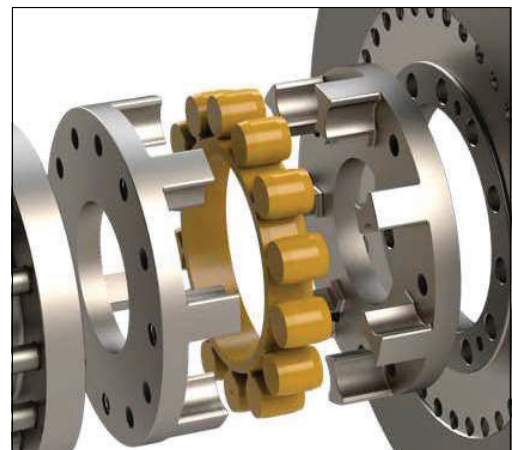
APPLICATIONS AREAS



- The Stromag SVKL, SVW and SVR Couplings are designed for industrial applications such as steel, nuclear, construction, marine and offshore, mass transport.
- They are part of the Stromag industrial braking systems that can include:
 - Electromagnetic, hydraulic and/or thruster brakes
 - Control and monitoring safety systems

2-PARTS CAM RING AVANTAGES

The Stromag SVKL and SVR Couplings are insert couplings fitted with a 2-parts cam ring. This design allows easy assembly and dismantling of the complete coupling and easy replacement of the rubber element. The compression of the rubber element allows the transmission of higher torques than similar elements in tension. The rubber element protects the steel parts against wear, its condition can be easily checked.



COUPLING AT A GLANCE

CLASSIFICATIONS



The acceptance of a coupling by a classification society must observe the rules issued by this society. Under certain circumstances, the coupling characteristics may differ from the definitions provided in this catalogue. Prepared data sheets are available on request. A number of classification societies prescribe fail-safe devices on ships main drives. Stromag couplings are supplied with certificates / type approvals of most international classification societies.

TORQUE RANGE

- SVK, SVKL, SVKL-ML, SVR: 750 up to 26.700 Nm
- SDK, SDKL, SDKL-ML, SDR: 1110 up to 39.700 Nm
- SVW: 40 up to 26.700 Nm
- SDW: 350 up to 40.050 Nm

INSTRUCTION FOR THE DESIGNER

The Stromag SVKL, SVW and SVR couplings provide a simple and efficient method of connecting two shafts, the connection of a flange to a shaft is also possible. They can be used in the two direction of rotation.

The torque is transmitted through a rubber element made of elastomer with a shore hardness of 90 A (SVKL - SVW - SVR) or 60D (SDKL - SDW - SDR).

These couplings damp out shocks and torsional vibrations. They are oilproof and can be used at temperatures ranging between -30°C and +80°C.

If no electrical connection exists otherwise, the rubber element makes an electrical insulation between the coupled machines. And therefore, they prevent undesirable static charging.

The two-parts cam of the SVKL and SVR couplings can be removed radially. This makes the rubber element replacement possible without moving the machines back.

The size of the coupling must be sufficient to ensure that there are no operating conditions that will exceed its stress limitations. For drives without torsional vibration stress, the coupling is selected according to the nominal torque T_{KN} and the max. torque T_{Kmax} . For drives subject to torsional vibration, a torsional vibration calculation has to be carried out for reasons of safety. On request, Stromag carries out this calculation and the coupling selection.

Then suitably stored, rubber elements maintain their characteristics for several years without change.

THE TORSIONAL VIBRATION ANALYSIS



Stromag's Know-how in Torsional Vibration Analysis (TVA) constitutes the core of each coupling design. It provides a comprehensive analysis of loads in the crankshaft, coupling and driven side to ensure that no critical speeds occur during operation.

Unevenly rotating systems can severely degrade product quality and cause great harm to the powertrain. On daily bases, the TVA experts at Stromag work on the challenge of detecting such deviations by measuring them and protecting the entire powertrain with ideal product selection. Stromag is capable of calculating stationary and transient operating conditions considering the stiffness and damping of the elastomers.

Elastic couplings SVW and SDW

Technical data

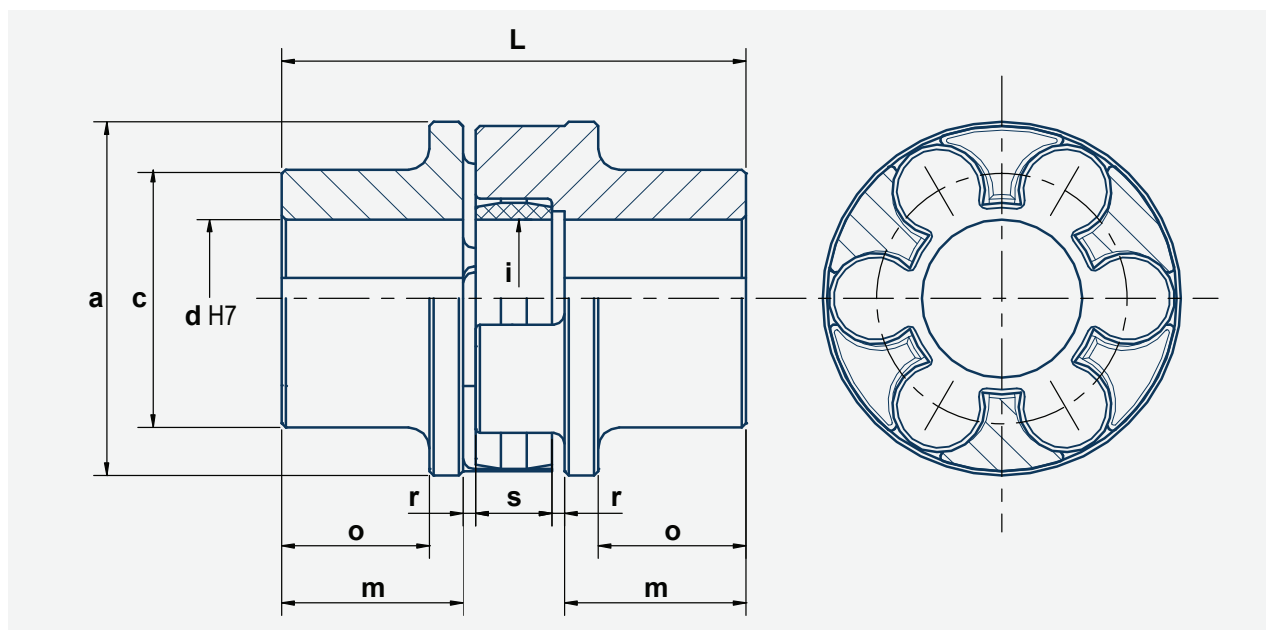
- Cam ring V
- Cam ring D
(Specify type of cam ring with order)
- Working temperature : -25°C to +80°C

Options:

- Long hub (motor or/and gearbox side)
 - Short hub (motor or/and gearbox side)
- Consult us.

- Painted coupling

Nota: In standard, couplings are delivered oiled without protection



Coupling size SVW- / SDW-		50	70	85	100	125	145	170	200	230	260	300	400	
Cam ring n° SVW SDW		50V	70V	85V 85D	100V 100D	125V 125D	145V 145D	170V 170D	200V 200D	230V 230D	260V 260D	300V 300D	400V 400D	
Qty of cams		4	6	6	6	6	6	8	8	10	10	10	14	
Mass moment of inertia kgm²		0.0002	0.001	0,002	0,005	0,010	0,021	0,047	0,108	0,195	0,385	0,735	1,852	
Weight kg		0.68	1.64	2,5	4,5	7	9,5	16	27,5	40	57	84	133	
Max. r.p.m. tr/mn		9000	7500	7000	5600	5000	5000	4000	3600	3200	2500	2000	1750	
Diameters	a mm	50	70	85	105	126	145	170	200	230	260	300	400	
	c mm	42	55	62	72	88	90	112	125	140	150	200	225	
	d pilot bored. mm	-	-	-	15	20	20	25	25	35	35	40	40	
	d max. mm	24	32	42	48	60	65	75	90	100	105	140	160	
	i mm	19	29	38	46	56	63	90	102	117	140	162	250	
Lengths	L mm	75	100	110	125	145	160	190	245	270	285	330	400	
	m mm	29.5	38.5	43	49	56	60,5	74,5	98,5	110	112,5	131,5	163,5	
	o mm	23.5	31.5	35	37,5	44	46,5	56,5	77,5	87	87,5	106,5	127,5	
	s mm	12	18	18	20	25	30	30	35	35	45	50	55	
	r mm	2	2.5	3	3,5	4	4,5	5,5	6,5	7,5	7,5	8,5	9	
Max. torque Tkmax		SVW Nm	40	140	225	390	750	1200	1900	2880	5150	7950	11700	26700
		SDW Nm			350	610	1110	1800	2850	4950	7740	11940	17550	40050
Transmissible torque (Tk _n) (Tk _n : motor nominal torque)		Tk _n ≤ Tk _{max} /k k min. Temperature k=3 < 40°C k=4 < 80°C k=6 < 80°C Ts< Tk _{max} Rate ≤ 120 starts/h ≤ 240 starts/h ≤ 600 starts/h												

Ts: motor starting torque. In all cases, $T_s < T_{kmax}$

Due to continuous development and improvement, all dimensions and characteristics are subject to change without notice.

27/08/20

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SVR / SDR elastic couplings

Technical data

Elastic couplings series **SVR** and **SDR**

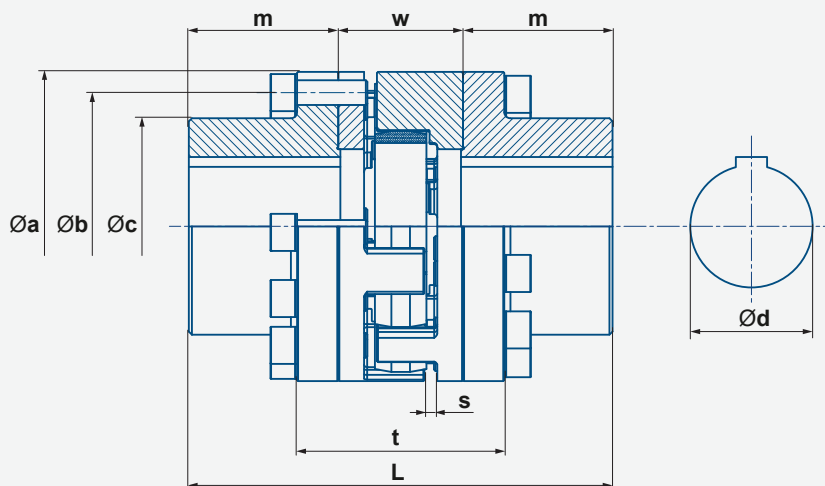
Replacement of the rubber element without moving back the machines

- SVR: Rubber element **V**
- SDR: Rubber element **D**

- Working temperature : -25°C to +80°C

Options:

Long hub (motor or/and gearbox side)
Consult us



Elastic couplings SVR / SDR		125	145	170	200	230	260	300	400
Inertia J kg.m²		0,02	0,037	0,077	0,16	0,312	0,63	1,296	4,288
Max. weight bored kg		11	16	25	38,5	56	86	134	255
Maximum speed r.p.m.		3000	3000	2400	2100	1800	1800	1500	1300
L		194	218	247	292	304	364	411	487
t mm		102	108	117	132	151	182	121	227
Øa mm		125	145	170	200	230	260	300	400
Øb mm		105	125	144	165	190	220	260	335
Øc mm		80	100	112	126	140	168	190	240
Ød max keyed mm		55	70	80	90	100	120	125	150
m mm		66	75	85	100	105	125	145	175
w mm		62	68	77	92	94	114	121	137
s mm		6	6,5	7,5	8,5	9,5	9,5	10,5	10,5
Max. torque Tkmax in Nm	Rubber element V	750	1200	1900	2880	5150	7950	11700	26700
	D	1110	1800	2850	4950	7740	11940	17550	39700
Transmissible torque (Tkn) (Tkn: motor nominal torque)		Tk _n ≤ Tk _{max} /k Ts < Tk _{max}		k min.	Temperature Rate	k=3 ≤ 120 starts/h	k=4 ≤ 240 starts/h	k=6 ≤ 240 starts/h	≤ 80°C ≤ 600 starts/h
Tightening torque of the screws * Nm		48	84	204	204	285	541	685	1364

* Screws class 10.9 greased with molybdenum bisulphide grease under the head and in threads.
Tightening tool dispersion = ±10%

Ts: motor starting torque. In all cases, **Ts** < **Tkmax**

Due to continuous development and improvement, all dimensions and characteristics are subject to change without notice.

06/05/20

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SVK / SDK disc couplings

Technical data

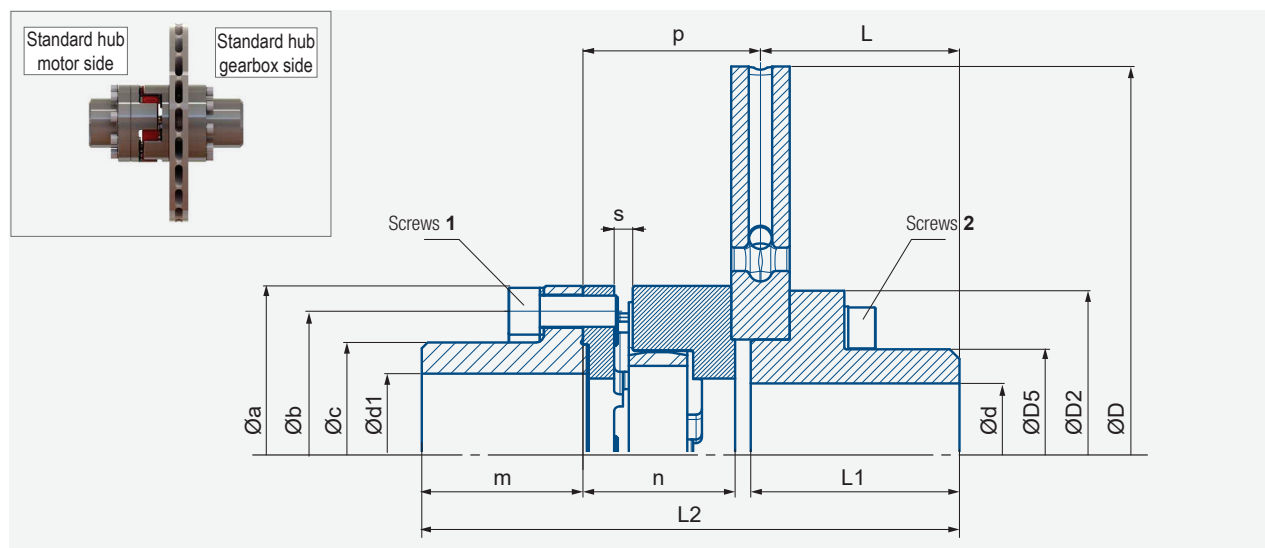
Elastic couplings serie **SVK** and **SDK**
 Ventilated disc thickness : **30 mm**
 Disc mounting and dismantling without
 moving the machines back

- SVK: Rubber element **V**
- SDK: Rubber element **D**
- Working temperature : -25°C to +80°C

Option:

- Solid Disc
- Painted coupling

Nota: In standard, couplings are delivered
 oiled without protection



Degrease faces in contact between disc and coupling.

Elastic couplings SVK / SDK			125	145		170		200	230				
Disc diameter (th.30)			315	315	355	395	445	445	495	550			
ASSEMBLY	J with ventilated disc kg.m²		0.17	0.18	0.27	0.42	0.68	0.73	1.2	1.74			
	J with solid disc kg.m²		0.26	0.27	0.41	0.66	1.04	1.09	1.69	2.68			
	Max. weight bored kg		25	29	35	42	51	70	88	99			
	Maximum speed r.p.m.		3000	3000	2700	2400	2100	2100	1800	1800			
L2			244	264,5		278	311	336	350				
DISC	ØD mm		315	315	355	395	445	445	495	550			
	ØD2 mm		125	125	145	165	175	175	220	220			
	ØD5 mm		80	80	95	105	110	110	150	150			
	Ød max keyed or shrink fit mm		50	50	60	70	70	70	100	100			
COUPLING	L mm		102	102	102	102	135	135	135	135			
	L1 mm		107	107	107	107	140	140	140	140			
	Øa mm		125	145	145	170	170	200	230	230			
	Øb mm		105	125	125	144	144	165	190	190			
	Øc mm		80	100	100	112	112	130	150	150			
	Ød1 max keyed mm		55	70	70	80	80	95	110	110			
	m mm		68	77		87		102	107				
	n mm		61	72.5		76		86	95				
	p mm		76	87.5		91		101	110				
	s mm		6	6.5		7.5		8.5	9.5				
	Max. torque	Rubber element	V	750	1200	1200	1900	1900	2880	5150	5150		
	Tkmax in Nm		D	1110	1800	1800	2850	2850	4950	7740	7740		
	Transmissible torque (Tkn) (Tkn: motor nominal torque)			Tkn ≤ Tkmax/k		k min.	Temperature	k=3	< 40°C	k=4	< 80°C	k=6	≤ 80°C
				Ts< Tkmax			Rate	≤ 120 starts/h		≤ 240 starts/h		≤ 600 starts/h	
Tightening torque *	Screws 1	Nm	48		84	84	204	204	204	285	285		
	Screws 2	Nm	48		48	84	133	204	204	285	285		

* Screws class 10.9 greased with molybdenum bisulphide grease under the head and in threads.

Ts: motor starting torque. In all cases, Ts < Tkmax

Tightening tool dispersion = ±10%

Due to continuous development and improvement, all dimensions and characteristics are subject to change without notice.

Installation & Maintenance Leaflet Nr. M10152-01

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SVK / SDK disc couplings

Technical data

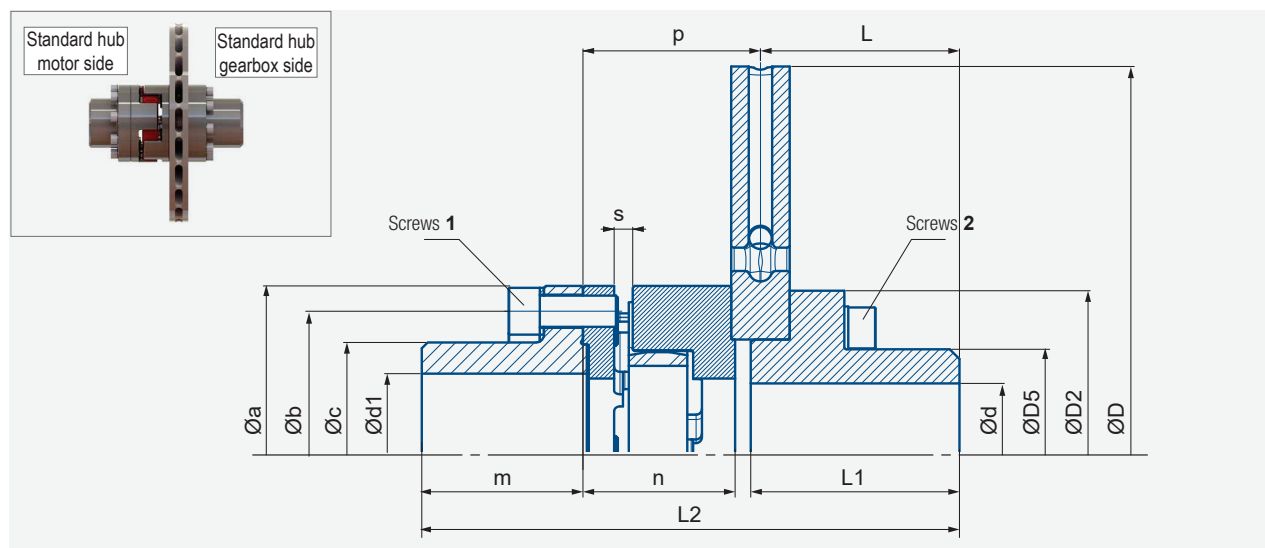
Elastic couplings serie **SVK** and **SDK**
 Ventilated disc thickness : **30 mm**
 Disc mounting and dismantling without
 moving the machines back

- **SVK**: Rubber element **V**
- **SDK**: Rubber element **D**
- Working temperature : -25°C to +80°C

Option:

- Solid Disc
- Painted coupling

Nota: In standard, couplings are delivered
 oiled without protection



Degrease faces in contact between disc and coupling.

Elastic couplings SVK / SDK				260			300			400			
Disc diameter (th.30)				550	625	705	625-2	705	705-2	795	705	795	
ASSEMBLY	J with ventilated disc		kg.m²	1.97	2.77	4.66	4.52	5.09	5.23	7.86	7.44	10.21	
	J with solid disc		kg.m²	2.91	4.22	6.89	5.23	7.32	7.81	11.44	9.67	13.79	
	Max. weight bored		kg	105	125	155	172	202	192	237	258	314	
	Maximum speed		r.p.m.	1800	1500	1300	1500	1300	1300	1200	1300	1200	
	L2			386,5			417,5			464			
DISC	ØD		mm	550	625	705	625	705	705	795	705	795	
	ØD2		mm	220	235	265	300	265	300	300	265	300	
	ØD5		mm	150	150	180	210	180	210	210	180	210	
	Ød max keyed or shrink fit		mm	100	100	120	130	120	130	130	120	130	
COUPLING	L		mm	135	135	135	135	135	135	135	135	135	
	L1		mm	140	140	140	140	140	140	140	140	140	
	Øa		mm	260	260	260	300	300	300	300	400	400	
	Øb		mm	220	220	220	260	260	260	260	335	335	
	Øc		mm	175	175	175	210	210	210	210	250	250	
	Ød1 max keyed		mm	125	125	125	140	140	140	140	160	160	
	m		mm	127			147			177			
	n		mm	111.5			122.5			139			
	p		mm	126.5			137.5			154			
	s		mm	9.5			10.5			10.5			
	Max. torque		Rubber element V	7950	7950	7950	11700	11700	11700	11700	26700	26700	
	Tkmax in Nm		element D	11940	11940	11940	17550	17550	17550	17550	30360	39700	
	Transmissible torque (Tkñ)			Tkñ ≤ Tkmax/k		k min.	Temperature	k=3	< 40°C	k=4	< 80°C	k=6	≤ 80°C
	(Tkñ: motor nominal torque)			Ts < Tkmax			Rate		≤ 120 starts/h		≤ 240 starts/h		≤ 600 starts/h
	Tightening torque *		Screws 1	Nm	541	541	541	685	685	685	685	1364	1364
Screws 2			Nm	285	398	541	541	541	685	685	541	685	

* Screws class 10.9 greased with molybdenum bisulphide grease under the head and in threads.

Ts: motor starting torque. In all cases, Ts < Tkmax

Tightening tool dispersion = ±10%

Due to continuous development and improvement, all dimensions and characteristics are subject to change without notice.

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SVKL / SDKL disc couplings

Technical data

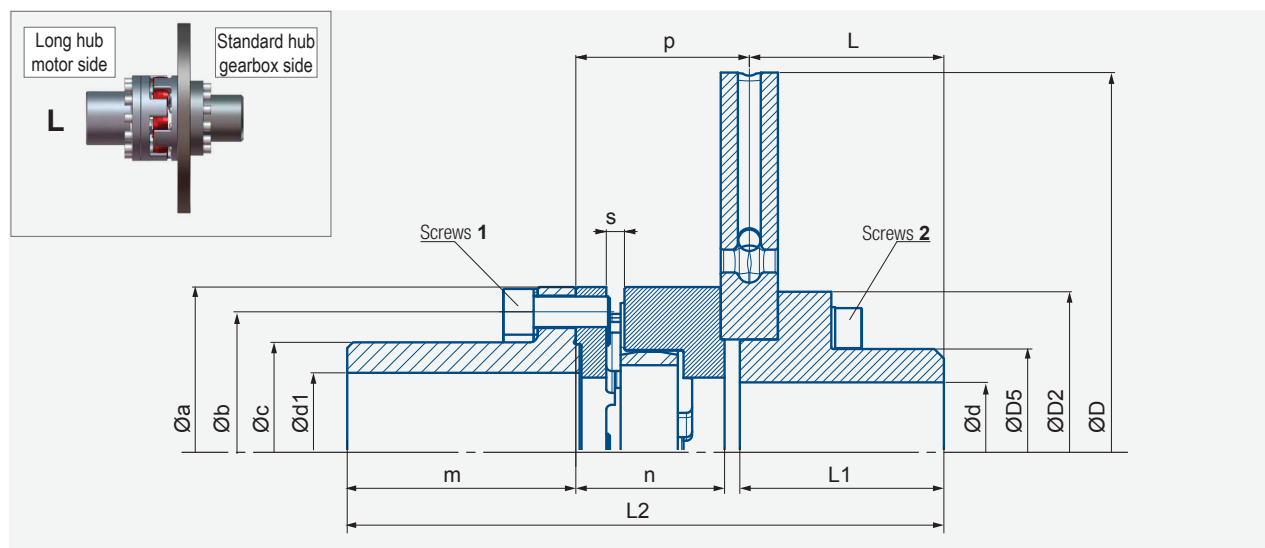
Elastic couplings serie **SVKL** and **SDKL**
 Long hub on motor side
 Ventilated disc, thickness : **30 mm**
 Disc mounting and dismounting without
 moving the machines back

- SVKL: Rubber element **V**
- SDKL: Rubber element **D**
- Working temperature : -25°C to +80°C

Option:

- Solid Disc
- Painted coupling

Nota: In standard, couplings are delivered
 oiled without protection



Degrease faces in contact between disc and coupling.

Elastic couplings SVKL / SDKL		125	145		170		200	230	
Disc diameter (th.30)		315	315	355	395	445	445	495	550
ASSEMBLY	J with ventilated disc	kg.m²	0.17	0.18	0.27	0.42	0.68	0.73	1.2
	J with solid disc	kg.m²	0.26	0.27	0.41	0.66	1.04	1.09	1.69
	Max. weight bored	kg	27	31	37	48	57	64	96
	Maximum speed	r.p.m.	3000	3000	2700	2400	2100	1800	1800
L2			286.5	298	298	331.5	364.5	364.5	412.5
DISC	ØD	mm	315	315	355	395	445	445	495
	ØD2	mm	125	125	145	165	175	175	220
	ØD5	mm	80	80	95	105	110	110	150
	Ød max keyed or shrink fit	mm	50	50	60	70	70	100	100
COUPLING	L	mm	102	102	102	102	135	135	135
	L1	mm	107	107	107	107	140	140	140
	Øa	mm	125	145	145	170	170	200	230
	Øb	mm	105	125	125	144	144	165	190
	Øc	mm	80	100	100	112	112	130	150
	Ød1 max keyed	mm	55	70	70	80	80	95	110
	m	mm	110.5	110.5		140.5		130.5	169.5
	n	mm	61	72.5		76		86	95
	p	mm	76	87.5		91		101	110
	s	mm	6	6.5		7.5		8.5	9.5
	Max. torque	Rubber element V	750	1200	1200	1900	1900	2880	5150
	Tkmax in Nm	D	1110	1800	1800	2850	2850	4950	7740
	Transmissible torque (Tk)		Tk ≤ Tkmax/k		k min.		Temperature		k=3 < 40°C
	(Tk: motor nominal torque)		Ts < Tkmax		Rate		k=4 < 80°C		k=6 ≤ 80°C
							≤ 120 starts/h		≤ 240 starts/h
									≤ 600 starts/h
Tightening torque *	Screws 1	Nm	48	84	84	204	204	204	285
	Screws 2	Nm	48	48	84	133	204	204	285

* Screws class 10.9 greased with molybdenum bisulphide grease under the head and in threads.

Ts: motor starting torque. In all cases, Ts < Tkmax

Tightening tool dispersion = ±10%

Due to continuous development and improvement, all dimensions and characteristics are subject to change without notice.

Installation & Maintenance Leaflet Nr. M10152-01

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SVKL / SDKL disc couplings

Technical data

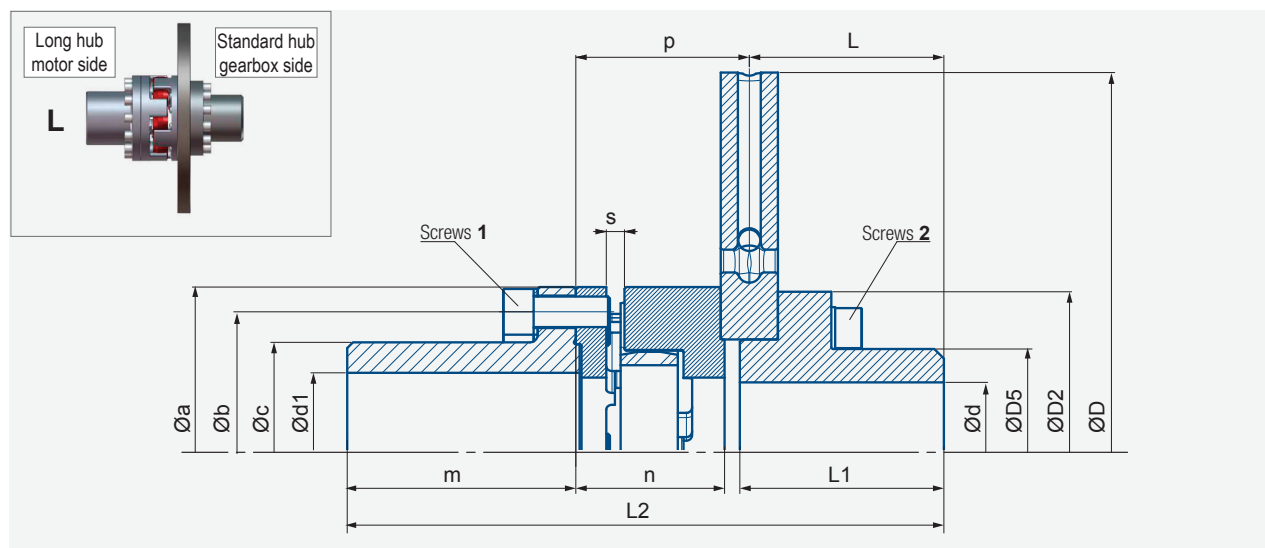
Elastic couplings serie **SVKL** and **SDKL**
 Long hub on motor side
 Ventilated disc, thickness : **30 mm**
 Disc mounting and dismounting without
 moving the machines back

- SVKL: Rubber element **V**
- SDKL: Rubber element **D**
- Working temperature : -25°C to +80°C

Option:

- Solid Disc
- Painted coupling

Nota: In standard, couplings are delivered
 oiled without protection



Degrease faces in contact between disc and coupling.

Elastic couplings SVKL / SDKL				260			300			400			
Disc diameter (th.30)				550	625	705	625-2	705	705-2	795	705	795	
ASSEMBLY	J with ventilated disc		kg.m²	1.97	2.77	4.66	4.52	5.09	5.23	7.86	7.44	10.21	
	J with solid disc		kg.m²	2.91	4.22	6.89	5.23	7.32	7.81	11.44	9.67	13.79	
	Max. weight bored		kg	120	140	170	185	215	229.5	250	300	356	
	Maximum speed		r.p.m.	1800	1500	1300	1500	1300	1300	1200	1300	1200	
	L2			469	469	469	480	480	480	480	576.5	576.5	
DISC	ØD		mm	550	625	705	625	705	705	795	705	795	
	ØD2		mm	220	235	265	300	265	300	300	265	300	
	ØD5		mm	150	150	180	210	180	210	210	180	210	
	Ød max keyed or shrink fit		mm	100	100	120	130	120	130	130	120	130	
COUPLING	L		mm	135	135	135	135	135	135	135	135	135	
	L1		mm	140	140	140	140	140	140	140	140	140	
	Øa		mm	260	260	260	300	300	300	300	400	400	
	Øb		mm	220	220	220	260	260	260	260	335	335	
	Øc		mm	175	175	175	210	210	210	210	250	250	
	Ød1 max keyed		mm	125	125	125	140	140	140	140	160	160	
	m		mm	209.5			209.5			289.5			
	n		mm	111.5			122.5			139			
	p		mm	126.5			137.5			154			
	s		mm	9.5			10.5			10.5			
	Max. torque		Rubber element V	7950	7950	7950	11700	11700	11700	11700	26700	26700	
	Tkmax in Nm		element D	11940	11940	11940	17550	17550	17550	17550	30360	39700	
	Transmissible torque (TkN) (TkN: motor nominal torque)			TkN ≤ Tkmax/k		k min.	Temperature	k=3	< 40°C	k=4	< 80°C	k=6	≤ 80°C
				Ts < Tkmax			Rate		≤ 120 starts/h		≤ 240 starts/h		≤ 600 starts/h
	Tightening torque *	Screws 1	Nm	541	541	541	685	685	685	685	1364	1364	
Screws 2		Nm	285	398	541	541	541	685	685	541	685		

* Screws class 10.9 greased with molybdenum bisulphide grease under the head and in threads.

Ts: motor starting torque. In all cases, Ts < Tkmax

Tightening tool dispersion = ±10%

Due to continuous development and improvement, all dimensions and characteristics are subject to change without notice.

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T10152-01-I

SVKL-ML / SDKL-ML disc couplings

Technical data

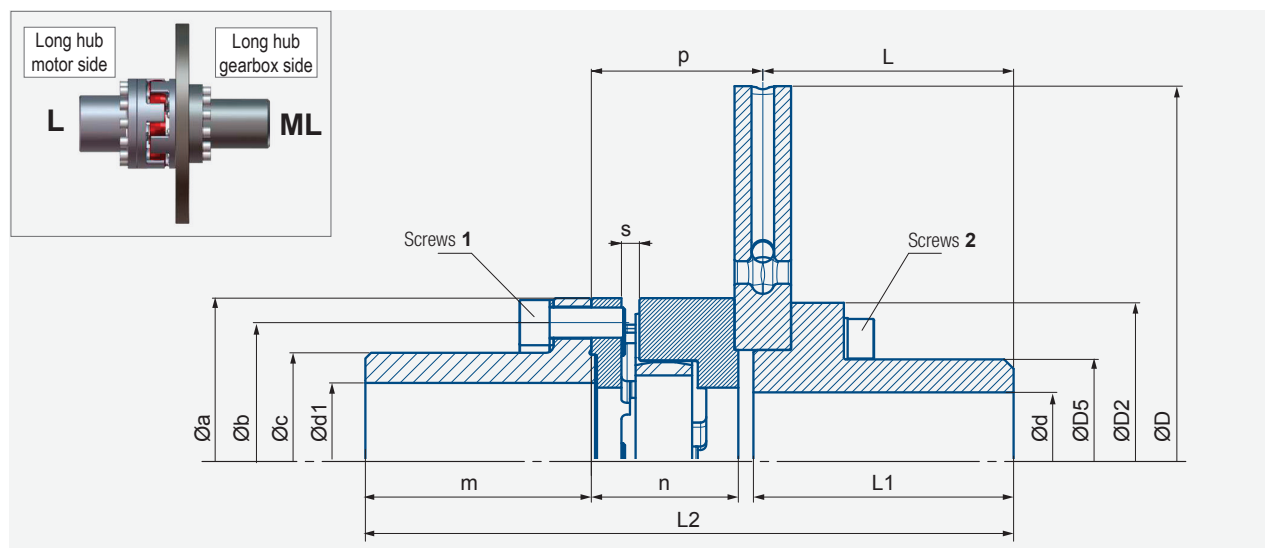
Elastic couplings serie **SVKL-ML & SDKL-ML**
 Long hub on motor side and gearbox side
 Ventilated discs, thickness : **30 mm**
 Disc mounting and dismounting without
 moving the machines back

- SVKL-ML: Rubber element **V**
- SDKL-ML: Rubber element **D**
- Working temperature : -25°C to +80°C

Option:

- Solid Disc
- Painted coupling

Nota: In standard, couplings are delivered
 oiled without protection



Degrease faces in contact between disc and coupling.

SVKL-ML / SDKL-ML			125	145		170		200	230				
Disc diameter (th. 30)			315	315	355	395	445	445	495	550			
ASSEMBLY	J with ventilated disc		kg.m²	0,181	0,191	0,273	0,425	0,686	0,736	1,223	1,763		
	J with solid disc		kg.m²	0,271	0,281	0,413	0,665	1,046	1,096	1,723	2,703		
	Max. weight bored		kg	27,8	31,8	40	51,6	61,5	67,5	104	115		
	Maximum speed		r.p.m.	3000	3000	2700	2400	2100	2100	1800	1800		
	L2			319,5	331	351	384,5	424,5	424,5	472,5	472,5		
DISC	ØD		mm	315	315	355	395	445	445	495	550		
	ØD2		mm	125	125	145	165	175	175	220	220		
	ØD5		mm	80	80	95	105	110	110	150	150		
	Ød max keyed or shrink fit		mm	50	50	60	70	70	70	100	100		
COUPLING	L		mm	135	135	155	155	195	195	195	195		
	L1		mm	140	140	160	160	200	200	200	200		
	Øa		mm	125	145	145	170	170	200	230	230		
	Øb		mm	105	125	125	144	144	165	190	190		
	Øc		mm	80	100	100	112	112	130	150	150		
	Ød1 max keyed		mm	55	70	70	80	80	95	110	110		
	m		mm	110.5	110.5		140.5		130.5	169.5			
	n		mm	61	72.5		76		86	95			
	p		mm	76	87.5		91		101	110			
	s		mm	6	6.5		7.5		8.5	9.5			
	Max. torque		Rubber element V	750	1200	1200	1900	1900	2880	5150	5150		
	Tkmax in Nm		D	1110	1800	1800	2850	2850	4950	7740	7740		
	Transmissible torque (Tkn)			Tkn ≤ Tkmax/k		k min.	Temperature	k=3	< 40°C	k=4	< 80°C	k=6	≤ 80°C
	(Tkn: motor nominal torque)			Ts< Tkmax			Rate		≤ 120 starts/h		≤ 240 starts/h		≤ 600 starts/h
	Tightening torque *	Screws 1		Nm	48	84	84	204	204	204	285	285	
Screws 2		Nm	48	48	84	133	204	204	285	285			

* Screws class 10.9 greased with molybdenum bisulphide grease under the head and in threads.

Ts: motor starting torque. In all cases, Ts < Tk_{max}

Tightening tool dispersion = ±10%

Due to continuous development and improvement, all dimensions and characteristics are subject to change without notice.

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SVKL-ML / SDKL-ML disc couplings

Technical data

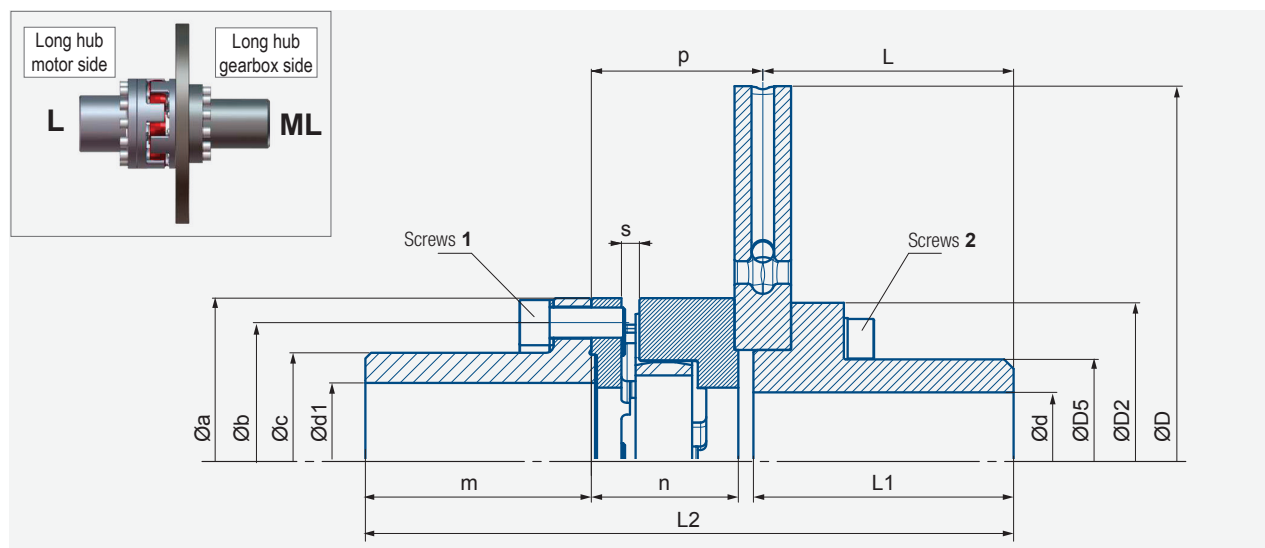
Elastic couplings serie **SVKL-ML & SDKL-ML**
 Long hub on motor side and gearbox side
 Ventilated discs, thickness : **30 mm**
 Disc mounting and dismounting without
 moving the machines back

- SVKL-ML: Rubber element **V**
- SDKL-ML: Rubber element **D**
- Working temperature : -25°C to +80°C

Option:

- Solid Disc
- Painted coupling

Nota: In standard, couplings are delivered
 oiled without protection



Degrease faces in contact between disc and coupling.

SVKL-ML / SDKL-ML			260			300				400			
Disc diameter (th. 30)			550	625	705	625-2	705	705-2	795	705	795		
ASSEMBLY	J with ventilated disc		kg.m²	1,993	2,793	4,708	4,602	5,138	5,312	7,942	7,488	10,292	
	J with solid disc		kg.m²	2,933	4,243	6,938	5,312	7,368	7,892	11,522	9,718	13,872	
	Max. weight bored		kg	128	148,5	182	200,5	227	245	265,5	312	371,5	
	Maximum speed		r.p.m.	1800	1500	1300	1500	1300	1300	1200	1300	1200	
	L2			529	529	529	540	540	540	540	636,5	636,5	
DISC	ØD		mm	550	625	705	625	705	705	795	705	795	
	ØD2		mm	220	235	265	300	265	300	300	265	300	
	ØD5		mm	150	150	180	210	180	210	210	180	210	
	Ød max keyed or shrink fit		mm	100	100	120	130	120	130	130	120	130	
COUPLING	L		mm	195	195	195	195	195	195	195	195	195	
	L1		mm	200	200	200	200	200	200	200	200	200	
	Øa		mm	260	260	260	300	300	300	300	400	400	
	Øb		mm	220	220	220	260	260	260	260	335	335	
	Øc		mm	175	175	175	210	210	210	210	250	250	
	Ød1 max keyed		mm	125	125	125	140	140	140	140	160	160	
	m		mm	209.5			209.5			289.5			
	n		mm	111.5			122.5			139			
	p		mm	126.5			137.5			154			
	s		mm	9.5			10.5			10.5			
	Max. torque		Rubber element V	7950	7950	7950	11700	11700	11700	11700	26700	26700	
	Tkmax in Nm		D	11940	11940	11940	17550	17550	17550	17550	30360	39700	
	Transmissible torque (Tkñ)			Tkñ ≤ Tkmax/k		k min.	Temperature	k=3	< 40°C	k=4	< 80°C	k=6	≤ 80°C
	(Tkñ: motor nominal torque)			Ts < Tkmax			Rate		≤ 120 starts/h		≤ 240 starts/h		≤ 600 starts/h
	Tightening torque *	Screws 1	Nm	541	541	541	685	685	685	685	1364	1364	
Screws 2		Nm	285	398	541	541	541	685	685	541	685		

* Screws class 10.9 greased with molybdenum bisulphide grease under the head and in threads.

Ts: motor starting torque. In all cases, Ts < Tkmax

Tightening tool dispersion = ±10%

Due to continuous development and improvement, all dimensions and characteristics are subject to change without notice.

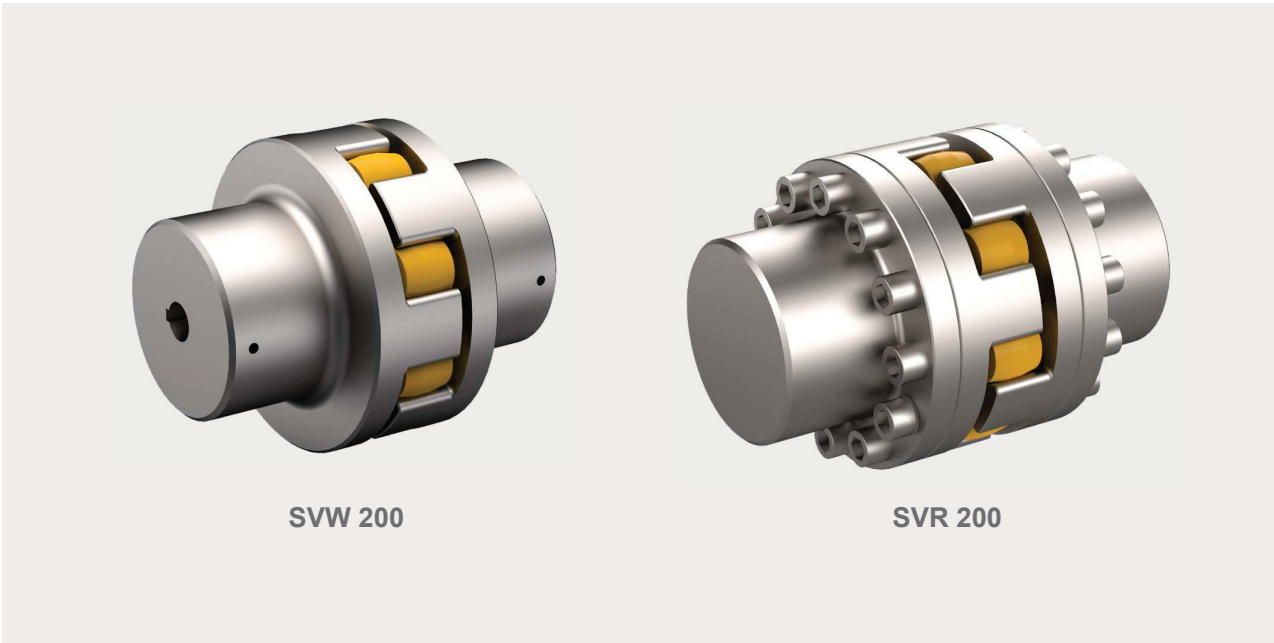
Installation & Maintenance Leaflet Nr. M10152-01

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T10152-03-E

Couplings series SVR / SDR and SVW / SDW Installation and maintenance



SUMMARY

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If the instructions in this manual are not adhered to, the performance, correct operation and the safety of the equipment cannot be guaranteed.

Technical data	SVR & SDR Leaflet Nr. T10156-01 SVW & SDW Leaflet Nr. T10174-01	01/09/20	1/8
		M10156-01-A	

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Couplings series SVR / SDR and SVW / SDW Installation and maintenance

NOTES AND SYMBOLS

According to EC regulations, we use, facing some paragraphs, symbols defining hazards and informing the user about the consequences of not following the instructions of this installation and maintenance leaflet.

DANGER!

This symbol concerns people's safety. It points out situations which could lead to death or serious injuries.



ATTENTION!

This symbol concerns the use of the equipment. It points out situations which could lead to damage or destroy the equipment.



NOTE!

This symbol concerns information which can ease the installation and the use of the equipment.



If the instructions in this manual are not adhered to, the performance, correct operation and the safety of the equipment cannot be guaranteed.

Technical data	SVR & SDR Leaflet Nr. T10156-01 SVW & SDW Leaflet Nr. T10174-01	01/09/20 2/8
		M10156-01-A

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Couplings series SVR / SDR and SVW / SDW Installation and maintenance

1 - PRESENTATION

1-1 Designation

Elastic couplings		Rubber element
SDR	2 claw-rings	D
SVR		V
SDW	2 claw-hubs	D
SVW		V

1-2 Description

Couplings **SVR / SDR** and **SVW / SDW** are elastic and shock-proof couplings. They balance angular, radial and axial shaft misalignment within tolerances.

The torque is transmitted through an exchangeable rubber element (4).

Couplings **SVR** and **SDR** allow to remove the claw-rings and the rubber element radially. This makes the rubber element replacement possible without moving the machines back..

Couplings **SVR / SDR** and **SVW / SDW** can be used in the two directions of rotation.

Rubber elements are made with elastomer :

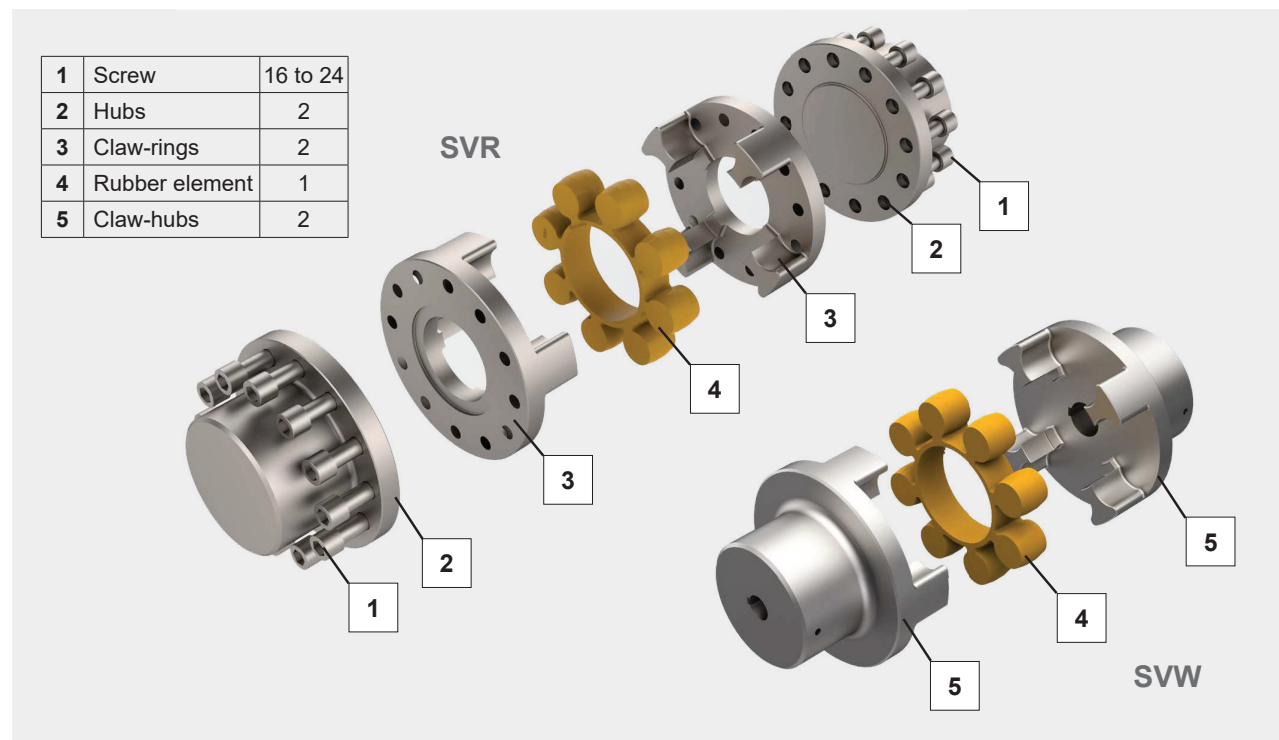
	Rubber element V	93 shore A ±3 shore
	Rubber element D	60 shore D ±3 shore.

They damp out shocks and torsionnal vibrations. They are oil-proof and can be used at temperatures ranging between -30°C and +80°C.

If no electrical connection exists otherwise, the rubber elements make an electrical insulation between the coupled machines. And therefore, they prevent undesirable static charging, among other things.

1-3 Construction (see fig.1)

Fig.1



If the instructions in this manual are not adhered to, the performance, correct operation and the safety of the equipment cannot be guaranteed.

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M10156-01-A				

Couplings series SVR / SDR and SVW / SDW Installation and maintenance

2 - INSTALLATION OF AN ELASTIC COUPLING

ATTENTION !

Couplings **SVR / SDR** et **SVW / SDW** must be handled, mounted, dismantled, maintained only by qualified, trained and authorized staff. This staff must be informed about this present leaflet and must have received instructions about the accidents risks.



DANGER !

Before performing any work on the coupling, always switch off the motor !
 Secure the motor against switching on unintentionally..



- > Be sure that the intended rotation speed and the torque as well as the operating temperature do not exceed the allowable values being in the *Technical data* relevant leaflet.
- > On the hubs, the maximum allowable bore diameters are according to the *Technical data* relevant leaflet
- > Standard tolerances for the bores are according to ISO H7 fit (DIN 7161, sheet 2).
- > Standard key groove according to ISO Js9 fit (DIN 6885, sheet 1).
- > Fixing screws if necessary.

If the instructions in this manual are not adhered to, the performance, correct operation and the safety of the equipment cannot be guaranteed.

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Couplings series SVR / SDR and SVW / SDW Installation and maintenance

2-1 Mounting

- > Remove the rubber element (4) (A-fig.2)
- > Before installing, clean the holes of the hubs and the shaft ends
- > For larger couplings, use suitable installation aids.
- > Fit the claw-hubs (1+2+3 or 5) on the shaft ends (B-fig2), during this operation avoid shocks on the claws (3 or 5).

NOTE !

For easy installation, the uniform warming of the hubs to between 80 and 120°C is completely safe.



DANGER !

Imperatively protect yourself with gloves from the very hot parts of the coupling.



- > Slide the hubs onto the shafts to achieve full engagement only.
- > The shafts end must be flush with the end of the hubs and not protrude into the drivers (fig.3). Protruding shaft ends prevent the free removal of the rubber element (4).

ATTENTION !

Put the hot hubs to cool before inserting the rubber element.



- > Fit the rubber element on one of the 2 claw-rings (or claw-hubs).
- > Join the shafts by mean of the claws (fig.4).
- > Check the concentricity of the two coupling parts by following the instructions of § 3-2.
- > In the order to increase the service life of the rubber element, the exact alignment of the shafts ends is necessary.

Fig.2

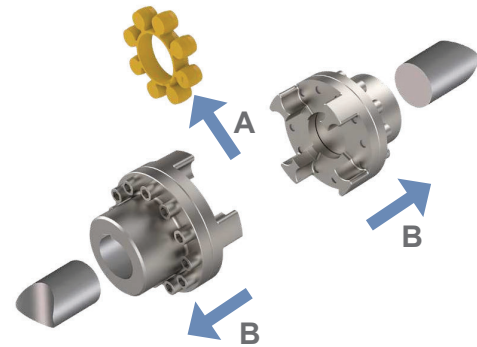


Fig.3

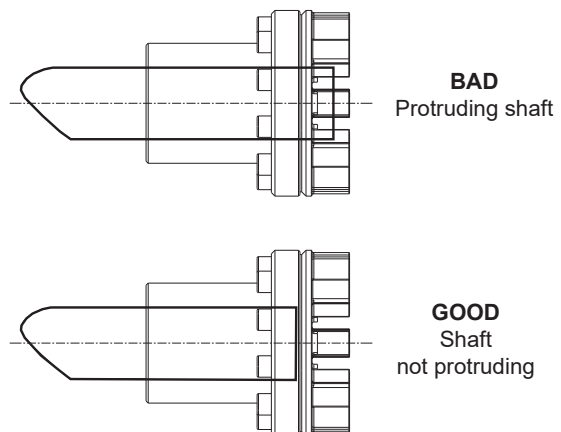
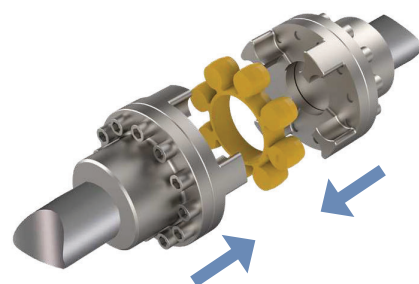


Fig.4



If the instructions in this manual are not adhered to, the performance, correct operation and the safety of the equipment cannot be guaranteed.

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	SVW & SDW	Leaflet Nr. T10174-01		
M10156-01-A				

Couplings series SVR / SDR and SVW / SDW Installation and maintenance

2-2 Coupling alignment

DANGER !

Before performing any work on the coupling, always switch off the motor !
Secure the motor against switching on unintentionally.



NOTE !

The maximum allowable misalignment given on tables 1 to 3 are general standard values.
In special cases with increased demands on quiet running or higher rotation speed, alignment precision lower than 0,1 mm in the three displacement planes can be necessary.



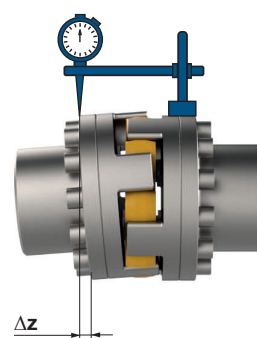
a) Angular alignment (fig.5)

- > Take measurements on a complete revolution (360°).
- > Determine the largest deviation and the smallest deviation.
- > Calculate the angular misalignment : Δz
- > When alining, comply with the maximum allowable misalignment Δz_{max} given in table 1.

Table 1

Coupling	50	70	85	100	125	145	170	200	230	260	300	400
Δz_{max} (mm) V	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	2.0	2.3	2.6	3.5
Δz_{max} (mm) D	/	/	0.7	0.9	1.1	1.3	1.5	1.7	2.0	2.3	2.6	3.5

Fig.5



b) Radial alignment (fig.6)

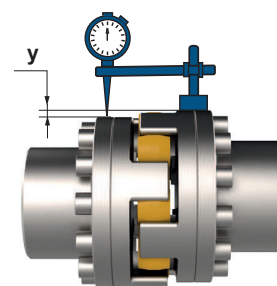
- > Take measurements on a complete revolution (360°).
- > Determine the largest deviation and the smallest deviation.
- > Calculate the radial misalignment $y = 0,5 \cdot (y_1 - y_2)$
- > When alining, comply with the maximum allowable misalignment y_{max} given in table 2.

Table 2

Coupling	50	70	85	100	125	145	170	200	230	260	300	400
y_{max} (mm) V	0,4	0,5	0,6	0,6	0,7	0,7	0,7	0,8	0,8	0,9	0,9	1,0
y_{max} (mm) D	/	/	0,6	0,6	0,7	0,7	0,7	0,8	0,8	0,9	0,9	1,0
Speed (rpm)	3000	2000	1500	1250	1250	1250	1000	850	750	600	600	500

y_{max} (mm) V	0.14	0.17	0.18	0.19	0.24	0.24	0.22	0.26	0.26	0.27	0.30	0.36
y_{max} (mm) D	/	/	0.18	0.19	0.24	0.24	0.22	0.26	0.26	0.27	0.30	0.36
Speed (rpm)	8500	6000	5000	4000	3600	3600	3200	2600	2300	2000	1800	1400

Fig.6



If the instructions in this manual are not adhered to, the performance, correct operation and the safety of the equipment cannot be guaranteed.

Technical data	SVR & SDR SVW & SDW	Leaflet Nr. T10156-01 Leaflet Nr. T10174-01	01/09/20	6/8
			M10156-01-A	

Couplings series SVR / SDR and SVW / SDW Installation and maintenance

c) Axial alignment (fig.7)

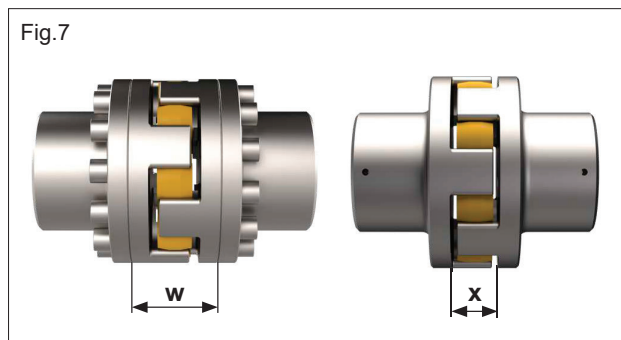
- > Measure the claws axial overlapping (table 3).
- > When aligning comply with the allowable tolerance given in table 3.

Table 3

Coupling	50	70	85	100	125	145
W (mm) SVR - SDR	/	/	/	/	62	68
O (mm) SVW - SDW	16	23	24	27	33	39
Tolerance	+2	+2	+2	+2	+2	+2

Coupling	170	200	230	260	300	400
W (mm) SVR - SDR	77	92	94	114	121	137
X (mm) SVW - SDW	41	48	50	60	67	73
Tolerance	+2	+2	+2	+2	+2	+2

Fig.7



3 - OPERATION

For **SVR** and **SDR** couplings, before putting the coupling into operation, check the tightening torque of the screws, class 10.9, greased with MoS2 under head and in threads : see values in table 4. Tightening tool dispersion = $\pm 10\%$.

Table 4

SVR - SDR	125	145	170	200	230	260	300	400
Screws tightening torque	48	84	204	204	285	541	685	1364

DANGER !

Before putting the coupling **SVR/SDR** and **SVW/SDW** into service, check that it is correctly mounted according to the instructions of ch.2.



ATTENTION !

After a long stopping (about 1h) in a temperature lower than -25°C the rubber element must be warmed to a temperature of about -10°C to 0°C . The starting up will be made as far as possible without overload (jolts).



4 - USE CONDITIONS

DANGER !

In operation, safety instructions and local measurements against accidents risks must be applied.



Couplings **SVR/SDR** and **SVW/SDW** must be protected against acids and alkaline detergents. An immersed installation is impossible. The working temperature do not exceed $+80^{\circ}\text{C}$ or be lower than -25°C .

DANGER !

In their working area, the couplings must be equipped with a protection cover in conformity with the applicable preventive safety measure. It must allow a sufficient ventilation of the coupling (use perforated or latticed sheets).



If the instructions in this manual are not adhered to, the performance, correct operation and the safety of the equipment cannot be guaranteed.

Technical data	SVR & SDR SVW & SDW	Leaflet Nr. T10156-01 Leaflet Nr. T10174-01	01/09/20	7/8
			M10156-01-A	

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Couplings series SVR / SDR and SVW / SDW Installation and maintenance

5 - MAINTENANCE

- > Couplings **SVR/SDR** et **SVW/SDW** require little maintenance in operation.
- > We recommend to check visually the rubber element (4) annually.
- > After a certain operating time, marks of wear due to the conditions and requirements of use can appear on the rubber element.
- > Most current are :
 - Hardening of the elastomer (surface porosity)
 - Breaking start
- > In case of wear marks (excessive brittleness or hardness of elastomer due to a too high temperature) or cracks, it is necessary to replace the rubber element (see ch.7)

Storage conditions

The rubber elements must be stored in a dry and ventilated place, at a minimum temperature of 20 to 25°C. By safety measure, the flector should not be used if the storage period is higher than 5 years.

6 - REPLACING THE RUBBER ELEMENT

DANGER !

Before performing any work on the coupling, always switch off the motor !
Secure the motor against switching on unintentionally.

For couplings **SVR** and **SDR**, replacement of the rubber element can be carried out without moving back the machines, proceed as follows:

- > Unscrew the claw-rings (3).
- > Push back the claw-rings together (against the rubber element) out of the hubs centering.
- > Get out the claw-rings and the rubber element together (3+4) (fig.8).
- > Fit the new rubber element.

ATTENTION !

The contact surfaces of the claw-rings (3+5) and the hubs (2) must be clean and free of oil and grease.

- > Put the claw-rings (3) at their respective places.
- > Screw in the same way the screws without forcing.
- > Tighten the screws to the torque given in table 4.

DANGER !

Before putting into operation, install all protective devices.



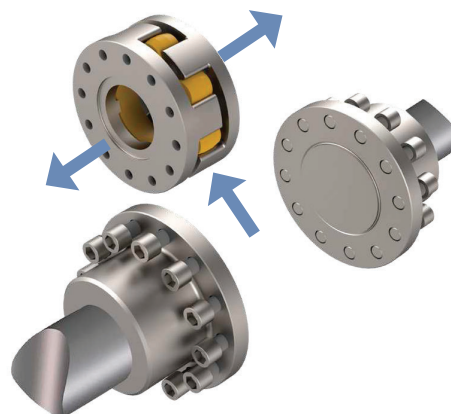
7 - SPARE PARTS

ATTENTION !

It is recommended to store the main spare parts to ensure an optimal guarantee and safety of operation. The wearing part is the rubber element. Only the use of original Stromag spare parts can guarantee our equipment's reliability. Using non original parts (not delivered by Stromag), can modified negatively the coupling characteristics and then compromises the safety.



Fig.8



If the instructions in this manual are not adhered to, the performance, correct operation and the safety of the equipment cannot be guaranteed.

Technical data	SVR & SDR SVW & SDW	Leaflet Nr. T10156-01 Leaflet Nr. T10174-01	01/09/20	8/8
			M10156-01-A	

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Disc brake

Installation and maintenance

Elastic disc couplings
series SDK, SVK, SDKL, SVKL, SDKL-ML, and SVKL-ML



SUMMARY

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7 - SPARE PARTS.	8

If the instructions in this manual are not adhered to, the performance, correct operation and the safety of the equipment cannot be guaranteed.

Technical data	SVK and SDK	Leaflet N° T10152-02	01/09/20	1/8
	SVKL and SDKL	Leaflet N° T10152-01		
	SVKL, SVKL MLP and MLV	Leaflet N° T10152-03		
			M10152-01-B	

Disc brake

Installation and maintenance

Elastic disc couplings

series SDK, SVK, SDKL, SVKL, SDKL-ML, and SVKL-ML

NOTES AND SYMBOLS

According to EC regulations, we use, facing some paragraphs, symbols defining hazards and informing the user about the consequences of not following the instructions of this installation and maintenance leaflet.

DANGER!

This symbol concerns people's safety. It points out situations which could lead to death or serious injuries.

**ATTENTION!**

This symbol concerns the use of the equipment. It points out situations which could lead to damage or destroy the equipment.

**NOTE!**

This symbol concerns information which can ease the installation and the use of the equipment.



If the instructions in this manual are not adhered to, the performance, correct operation and the safety of the equipment cannot be guaranteed.

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Disc brake

Installation and maintenance

Elastic disc couplings

series SDK, SVK, SDKL, SVKL, SDKL-ML, and SVKL-ML

1 - PRESENTATION

1-1 Designation

SDK : coupling with rubber element D

SVK : coupling with rubber element V

SVKL & SDKL : couplings with long hub (2) - see the relevant *Technical data* leaflet.

SVKL-M & SDKL-ML : couplings with long hubs (2 and 7) - see the relevant *Technical data* leaflet.

1-2 Description

The couplings **SVK..** and **SDK..** are cams couplings with brake discs (6) (ventilated discs thickness 30, solid disc is optional). They are flexible and shock-proof.

They balance angular, radial and axial shaft misalignment within tolerances.

The torque is transmitted through an exchangeable rubber element (4).

Rubber elements are made with elastomer.

The hardness of the rubber element :

- V is 93 shore A ± 3 shore

- D is 60 shore D ± 3 shore.

They damp out shocks and torsionnal vibrations. They are oil-proof and can be used at temperatures ranging between -30°C and +80°C.

If no electrical connection exists otherwise, the rubber elements make an electrical insulation between the coupled machines. And therefore, they prevent undesirable static charging, among other things.

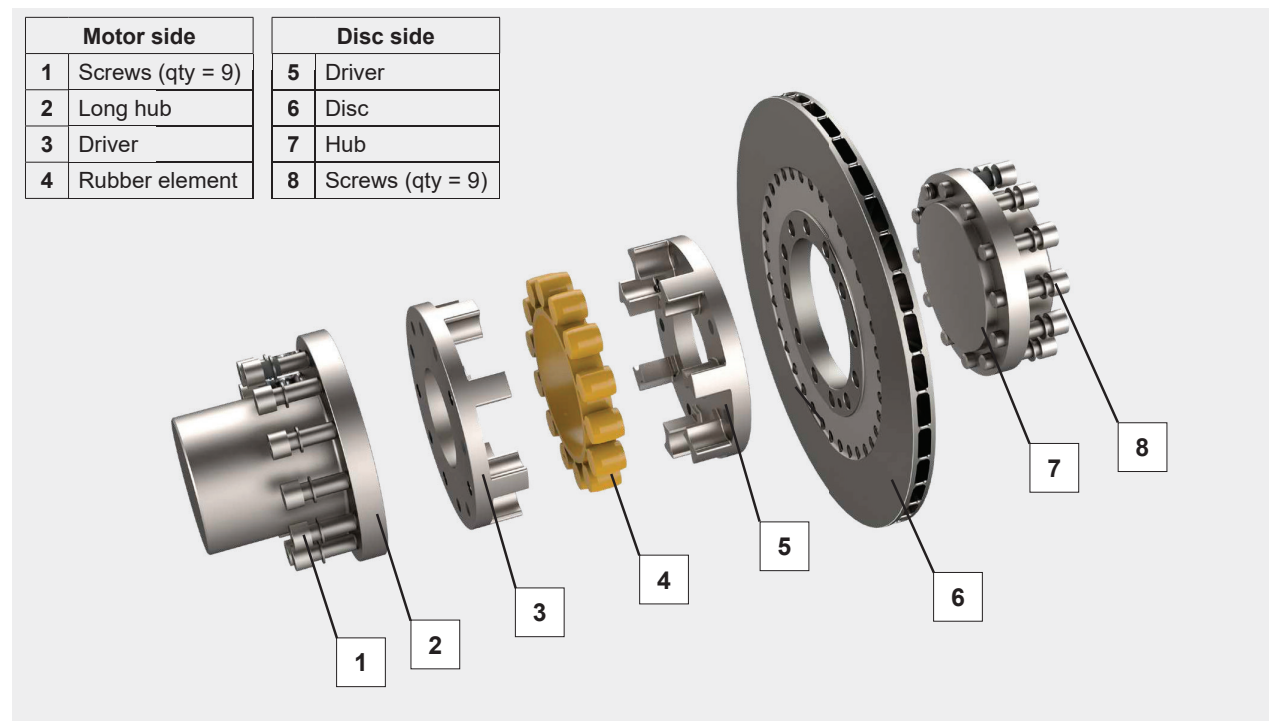
Each coupling part is made of two elements allowing the drivers (3+5) to be removed radially. This makes the rubber element replacement possible without moving the machines back.

The coupling can be used in the two directions of rotation.

1-3 Construction

see fig.1

Fig.1



If the instructions in this manual are not adhered to, the performance, correct operation and the safety of the equipment cannot be guaranteed.

Technical data	SVK and SDK	Leaflet N° T10152-02	01/09/20	3/8
	SVKL and SDKL	Leaflet N° T10152-01		
	SVKL, SVKL MLP and MLV	Leaflet N° T10152-03		
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Disc brake

Installation and maintenance

Elastic disc couplings

series SDK, SVK, SDKL, SVKL, SDKL-ML, and SVKL-ML

2 - FLEXIBLE COUPLING INSTALLATION

ATTENTION !

The couplings **SVK..** and **SDK..** must be handled, mounted, dismounted, maintained only by qualified, trained and authorized staff. This staff must be informed about this present leaflet and must have received instructions about the accidents risks.



DANGER !

Before performing any work on the coupling, always switch off the motor !
 Secure the motor against switching on unintentionally.



- > Be sure that the intended rotation speed and the torque as well as the operating temperature do not exceed the allowable values being in the "Technical data" relevant leaflet.
- > On the hubs, the maximum allowable bore diameters are according to the "Technical data" relevant leaflet
- > Standard tolerances for the bores are according to ISO H7 fit (DIN 7161, sheet 2).
- > Standard key groove according to ISO Js9 fit (DIN 6885, sheet 1).
- > Fixing screws if necessary.

If the instructions in this manual are not adhered to, the performance, correct operation and the safety of the equipment cannot be guaranteed.

Technical data	SVK and SDK	Leaflet N° T10152-02	01/09/20	4/8
	SVKL and SDKL	Leaflet N° T10152-01		
	SVKL, SVKL MLP and MLV	Leaflet N° T10152-03		
M10152-01-B				

Disc brake

Installation and maintenance

Elastic disc couplings

series SDK, SVK, SDKL, SVKL, SDKL-ML, and SVKL-ML

2-1 Mounting

- > Remove the rubber element (4)(A-fig.2)
- > Before installing, clean the holes of the hubs, the shaft ends and the discs.
- > For larger couplings, use suitable installation aids.
- > Fit the subassemblies hub-ring-driver (2+3) and hub-disc-driver (7+6+5) on the shaft ends (B-fig2), during this operation avoid shocks on the drivers cams (3 and 5).

NOTE !

For easy installation, the uniform warming of the hubs to between 80 and 120°C is completely safe.



DANGER !

Imperatively protect yourself with gloves from the very hot parts of the coupling.



- > Slide the hubs onto the shafts to achieve full engagement only.
- > The shafts end must be flush with the end of the hubs and not protrude into the drivers (fig.3). Protruding shaft ends prevent the free removal of the rubber element (4).

ATTENTION !

Put the hot hubs to cool before inserting the rubber element.



- > Fit the rubber element on one of the drivers (3 or 5).
 - > Join the shafts by mean of the both drivers (fig.4).
 - > Check the concentricity of the two coupling parts by following the instructions of § 3-2.
- In the order to increase the service life of the rubber element, the exact alignment of the shafts ends is necessary.

Fig.2

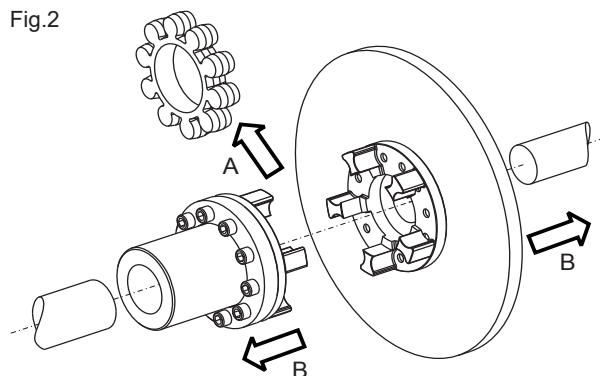
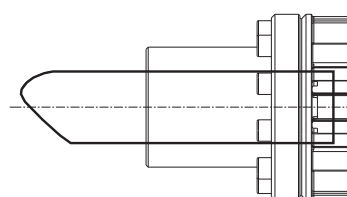
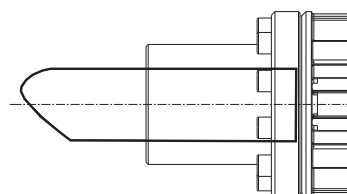


Fig.3



BAD

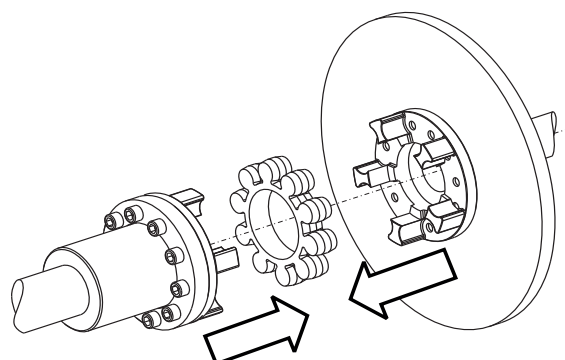
Protruding shaft



GOOD

Shaft not protruding in the driver

Fig.4



If the instructions in this manual are not adhered to, the performance, correct operation and the safety of the equipment cannot be guaranteed.

Technical data	SVK and SDK	Leaflet N° T10152-02	01/09/20	5/8
	SVKL and SDKL	Leaflet N° T10152-01		
	SVKL, SVKL MLP and MLV	Leaflet N° T10152-03		
M10152-01-B				

Disc brake

Installation and maintenance

Elastic disc couplings

series SDK, SVK, SDKL, SVKL, SDKL-ML, and SVKL-ML

2-2 Coupling alignment

DANGER !

Before performing any work on the coupling, always switch off the motor !
Secure the motor against switching on unintentionally.



Note :

The maximum allowable misalignment given on tables 1 to 3 are general standard values.

In special cases with increased demands on quiet running or higher rotation speed, alignment precision lower than 0,1 mm in the three displacement planes can be necessary.

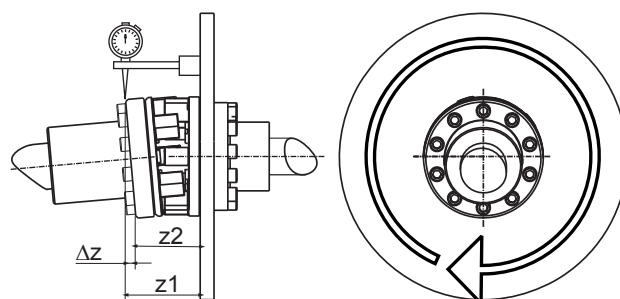
a) Angular alignment (fig.5)

- > Take measurements on a complete revolution (360°).
- > Determine the largest deviation z1 and the smallest deviation z2.
- > Calculate the angular misalignment : $\Delta z = z1 - z2$
- > When aligning, comply with the maximum allowable misalignment Δz_{max} given in table 1.

Table 1

Coupling	125	145	170	200	230	260	300	400
Δz_{max} (mm)	1.1	1.3	1.5	1.7	2.0	2.3	2.6	3.5

Fig.5



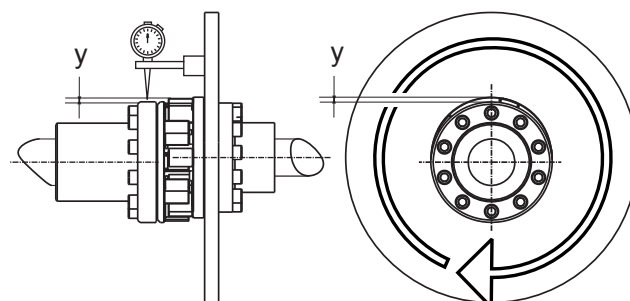
b) Radial alignment (fig.6)

- > Take measurements on a complete revolution (360°).
- > Determine the largest deviation y1 and the smallest deviation y2.
- > Calculate the radial misalignment $y = 0,5 \cdot (y1 - y2)$
- > When aligning, comply with the maximum allowable misalignment y_{max} given in table 2.

Table 2

Coupling	125	145	170	200	230	260	300	400
y_{max} (mm) V	0,7	0,7	0,7	0,8	0,8	0,9	0,9	1,0
y_{max} (mm) D	0,7	0,7	0,7	0,8	0,8	0,9	0,9	1,0
Speed (rpm)	1250	1250	1000	850	750	600	600	500
y_{max} (mm) V	0.24	0.24	0.22	0.26	0.26	0.27	0.30	0.36
y_{max} (mm) D	0.24	0.24	0.22	0.26	0.26	0.27	0.30	0.36
Speed (rpm)	3600	3600	3200	2600	2300	2000	1800	1400

Fig.6



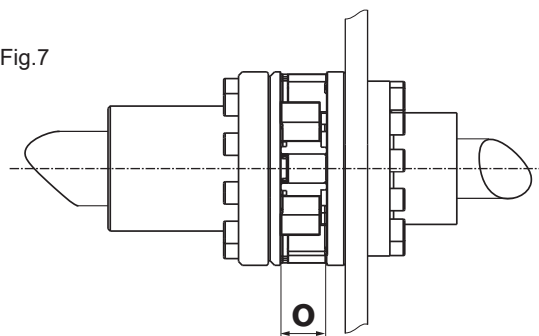
c) Axial alignment (fig.7)

- > Measure the drivers axial overlapping O (table 3).
- > When aligning comply with the allowable tolerance given in table 3.

Table 3

Coupling	125	145	170	200	230	260	300	400
O (mm)	37	43	45	52	54	64	70	76
Tolerance	+2	+2	+2	+2	+2	+2	+2	+2

Fig.7



If the instructions in this manual are not adhered to, the performance, correct operation and the safety of the equipment cannot be guaranteed.

Technical data	SVK and SDK	Leaflet N° T10152-02	01/09/20	6/8
	SVKL and SDKL	Leaflet N° T10152-01		
	SVKL, SVKL MLP and MLV	Leaflet N° T10152-03		
M10152-01-B				

Disc brake

Installation and maintenance

Elastic disc couplings

series SDK, SVK, SDKL, SVKL, SDKL-ML, and SVKL-ML

3 - OPERATION

Before putting the coupling into operation, check the tightening torque of the screws (1) and (8), class 10.9, greased with MoS2 under head and in threads : see values in table 4. Tightening tool dispersion = $\pm 10\%$.

Table 4

Coupling	125	145		170		200	230		260		
Disc	315	315	355	395	445	445	495	550	550	625	705
Tightening torque screw (1)	48	84		204		203	285		541		
Tightening torque screw (8)	48	84		133	204	203	285		285	398	541

DANGER !

Before putting the coupling **SDK..** and **SVK..** into operation, check that it is correctly mounted according to the instructions of ch.2.

**ATTENTION !**

After a long stopping (about 1h) in a temperature lower than -25°C the rubber element must be warmed to a temperature of about -10°C to 0°C . The starting up will be made as far as possible without overload (jolts).



4 - USE CONDITIONS

DANGER !

In operation, safety instructions and local measurements against accidents risks must be applied.



The flexible couplings **SDK..** and **SVK..** must be protected against acids and alkaline detergents. An immersed installation is impossible. The working temperature do not exceed $+80^{\circ}\text{C}$ or be lower than -25°C .

DANGER !

In their working area, the couplings must be equipped with a protection cover in conformity with the applicable preventive safety measure. It must allow a sufficient ventilation of the coupling (use perforated or latticed sheets).



If the instructions in this manual are not adhered to, the performance, correct operation and the safety of the equipment cannot be guaranteed.

Technical data	SVK and SDK	Leaflet	N° T10152-02	01/09/20	7/8
	SVKL and SDKL	Leaflet	N° T10152-01		
	SVKL, SVKL MLP and MLV	Leaflet	N° T10152-03		
				M10152-01-B	

Disc brake

Installation and maintenance

Elastic disc couplings

series SDK, SVK, SDKL, SVKL, SDKL-ML, and SVKL-ML

5 - MAINTENANCE

- > The flexible couplings **SDK..** and **SVK..** require little maintenance in operation.
- > We recommend to check visually the rubber element (4) annually.
- > After a certain operating time, marks of wear due to the conditions and requirements of use can appear on the rubber element.
- > Most current are :
 - Hardening of the elastomer (surface porosity)
 - Breaking start
- > In case of wear marks (excessive brittleness or hardness of elastomer due to a too high temperature) or cracks, it is necessary to replace the rubber element (see ch.7)

Storage conditions

The rubber elements must be stored in a dry and ventilated place, at a minimum temperature of 20 to 25°C.
By safety measure, the flector should not be used if the storage period is higher than 5 years.

6 - REPLACING THE RUBBER ELEMENT

DANGER !

Before performing any work on the coupling, always switch off the motor !
Secure the motor against switching on unintentionally.



- > Unscrew the drivers (3+5).
- > Push back the drivers together (against the rubber element) out of the centerings of hub (2) and the disc (6).
- > Get out the drivers and the rubber element together (3+5+4) (fig.8).
- > Fit the new rubber element.

ATTENTION !

The contact surfaces of the drivers (3+5), the hub (2) and the disc (6) must be clean and free of oil and grease.

STOP

- > Put the drivers at their respective places.
- > Screw in the same way the screws without forcing.
- > Tighten the screws to the torque given in table 4.

DANGER !

Before putting into operation, install all protective devices.



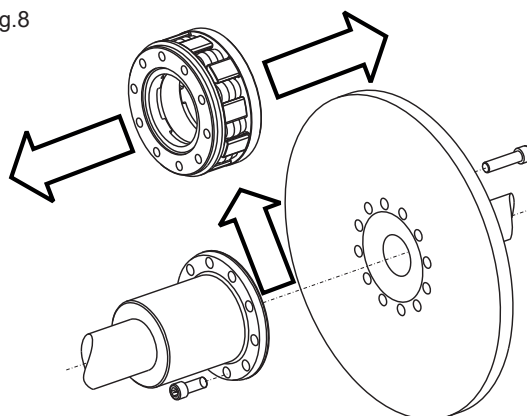
7 - SPARE PARTS

ATTENTION !

It is recommended to store the main spare parts to ensure an optimal guarantee and safety of operation. The wearing part is the rubber element. Only the use of original Stromag spare parts can guarantee our equipment's reliability. Using non original parts (not delivered by Stromag), can modified negatively the coupling characteristics and then compromises the safety.

STOP

Fig.8



If the instructions in this manual are not adhered to, the performance, correct operation and the safety of the equipment cannot be guaranteed.

Technical data	SVK and SDK	Leaflet N° T10152-02	01/09/20	8/8
	SVKL and SDKL	Leaflet N° T10152-01		
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