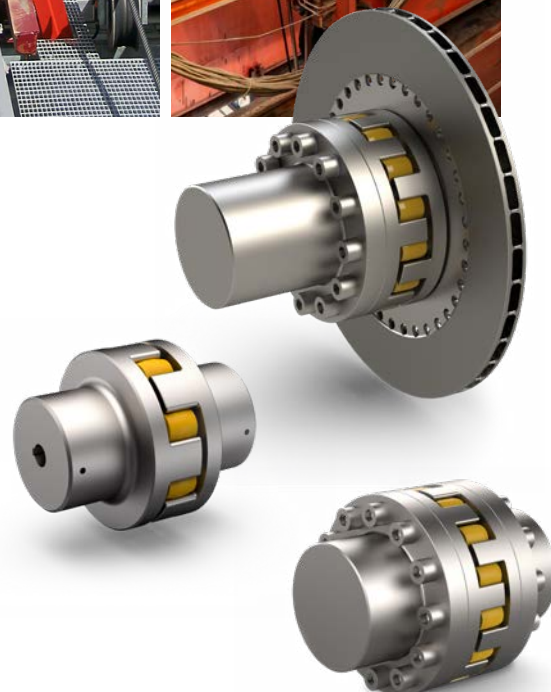
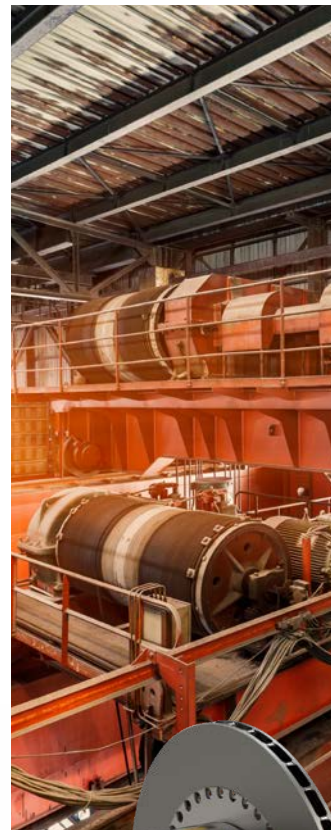


# Stromag Couplings SVKL, SVW and SVR



# 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.



VISIT US ON THE WEB AT [STROMAG.COM](http://STROMAG.COM)

# 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.

VISIT US ON THE WEB AT [ALTRAMOTION.COM](http://ALTRAMOTION.COM)

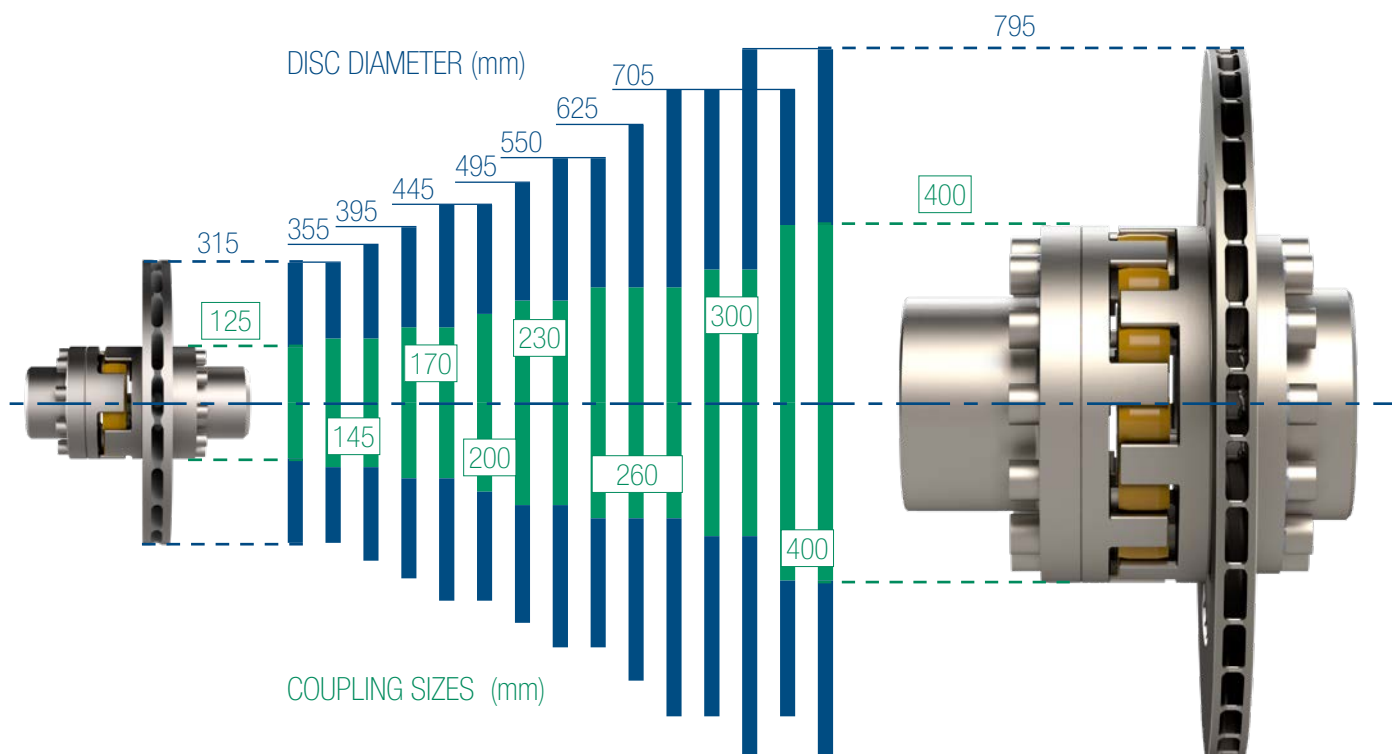
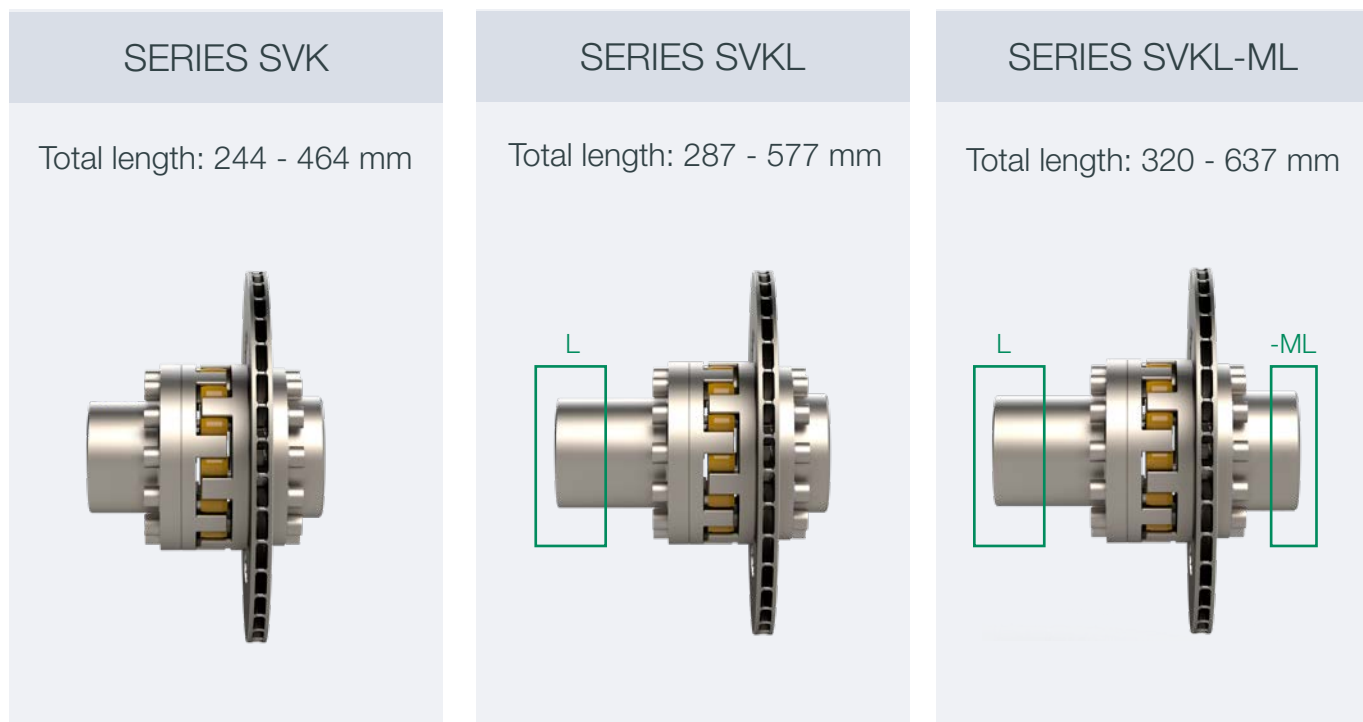


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### STROMAG SVKL COUPLINGS SIZES






### STROMAG ELASTIC COUPLINGS RANGES

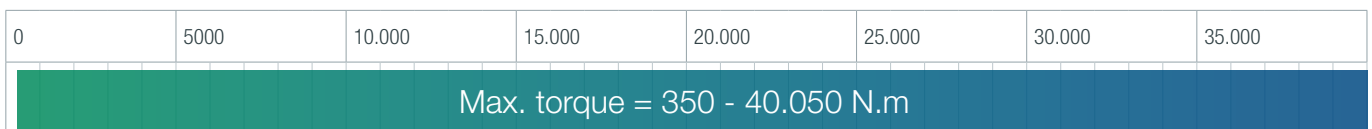
SERIES SVW	SERIES SVR	SERIES SVK
Max. torque: 40 - 26.700 Nm	Max. torque: 750 - 26.700 Nm	Max. torque: 750 - 26.700 Nm
		

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



SERIES SDW	SERIES SDR	SERIES SDK
Max. torque: 350 - 40.050 Nm	Max. torque: 1110 - 39.700 Nm	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

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- 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)



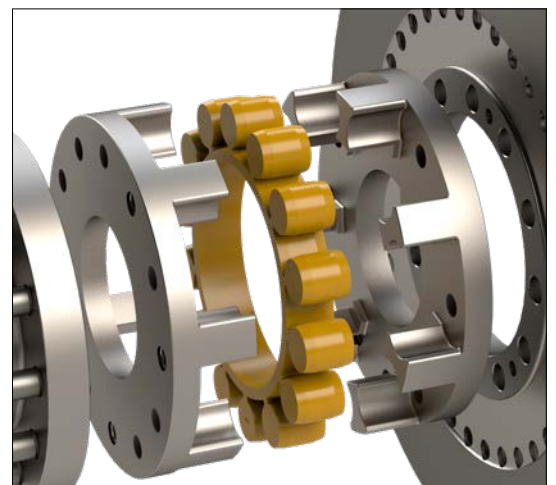
### APPLICATIONS AREAS



- 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.



# Stromag – Flexible Couplings

## 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 undeserable 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.

# Stromag – Flexible Couplings

## SVKL, SVW and SVR Couplings

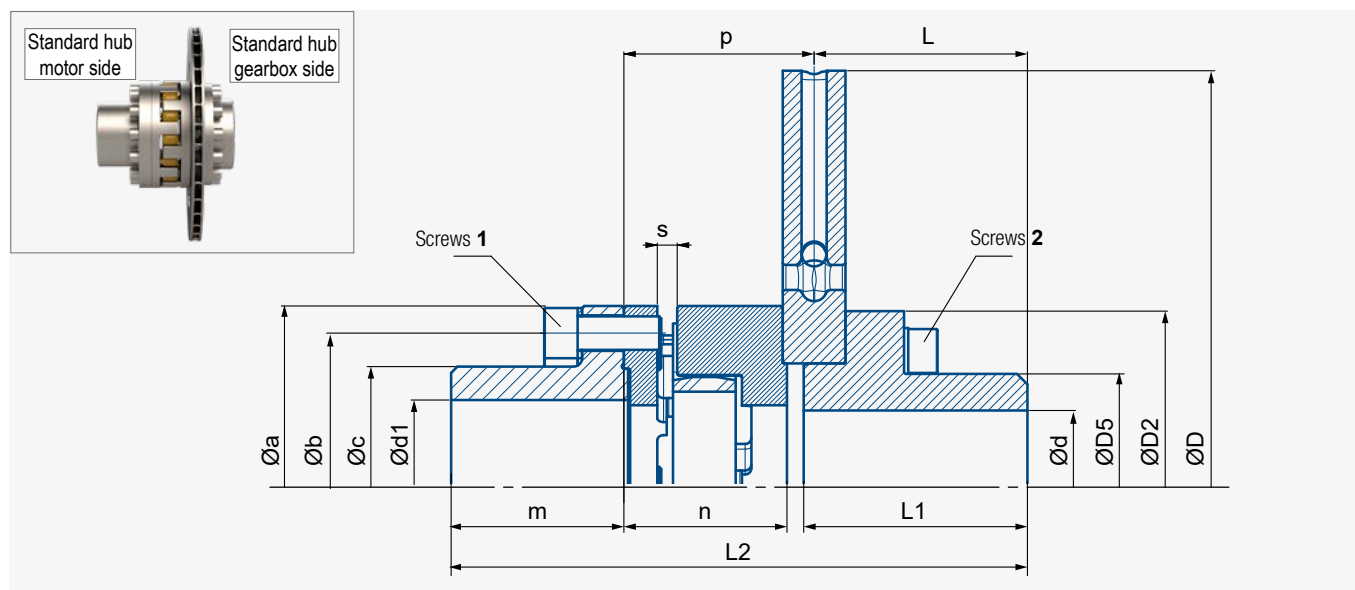
### SVK AND SDK DISC COUPLINGS

Revision number: T10152-04-C Revision date: 12.05.2020

Elastic couplings serie **SVK** and **SDK**  
 Ventilated disc thickness : 30 mm  
 Disc mounting and dismounting 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.m <sup>2</sup>	0.17	0.18	0.27	0.42	0.68	0.73	1.2	1.74	
	J with solid disc	kg.m <sup>2</sup>	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	Rubber element	D	1110	1800	1800	2850	2850	4950	7740	7740	
Transmissible torque (Tk)		Tkn ≤ Tkmax/k	k min.		Temperature Rate	k=3	< 40°C	k=4	< 80°C	k=6	≤ 80°C
(Tk: motor nominal torque)		Ts < Tkmax					≤ 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.  
 Tightening tool dispersion = ±10%

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

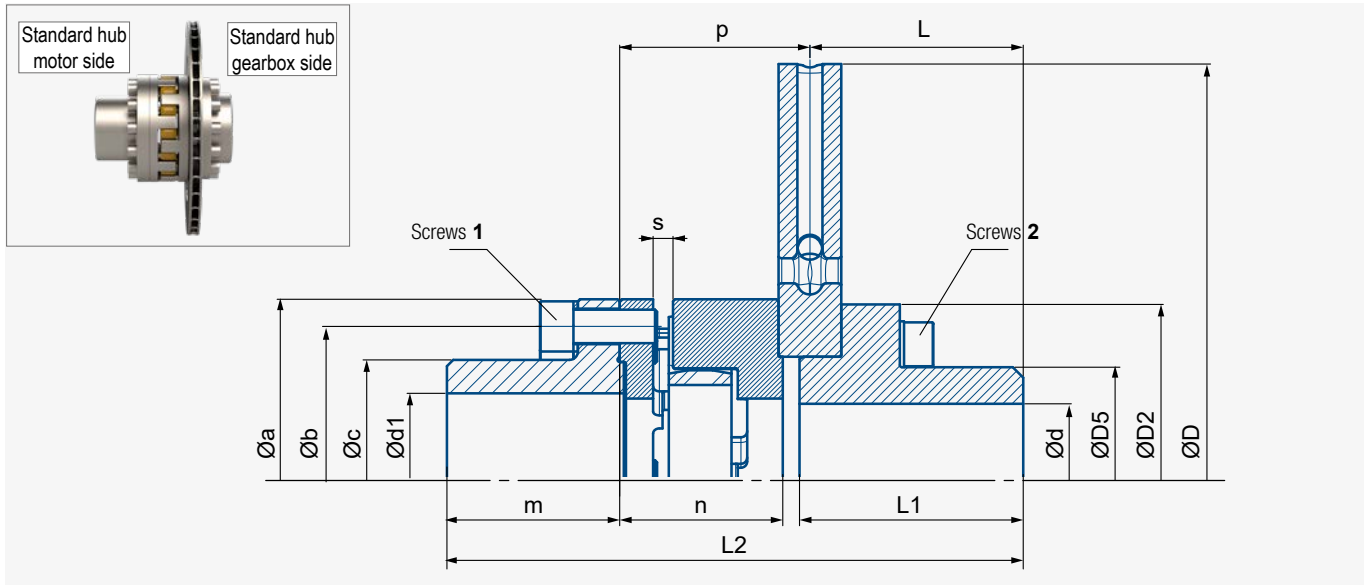
### SVK AND SDK DISC COUPLINGS

Revision number: T10152-04-C Revision date: 12.05.2020

Elastic couplings serie **SVK** and **SDK**  
 Ventilated disc thickness : 30 mm  
 Disc mounting and dismounting 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



Elastic couplings SVK / SDK			260			300			400			
Disc diameter (th.30)			550	625	705	625-2	705	705-2	795	705	795	
<b>ASSEMBLY</b>	J with ventilated disc	kg.m <sup>2</sup>	1.97	2.77	4.66	4.52	5.09	5.23	7.86	7.44	10.21	
	J with solid disc	kg.m <sup>2</sup>	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	mm	386,5			417,5			464				
<b>DISC</b>	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	
<b>COUPLING</b>	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	V	7950	7950	7950	11700	11700	11700	11700	26700	26700	
Tkmax in Nm	Rubber element D	D	11940	11940	11940	17550	17550	17550	17550	30360	39700	
Transmissible torque (Tkn)			Tk <sub>n</sub> ≤ Tk <sub>max</sub> /k		k min.	Temperature	k=3	< 40°C	k=4	< 80°C	k=6	< 80°C
(Tkn: motor nominal torque)			Ts < Tk <sub>max</sub>			Rate		≤ 120 starts/h				≤ 240 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	

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

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

# Stromag – Flexible Couplings

## SVKL, SVW and SVR Couplings

### SVKL AND SDKL DISC COUPLINGS

Revision number: T10152-01-I Revision date: 12.05.2020

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**

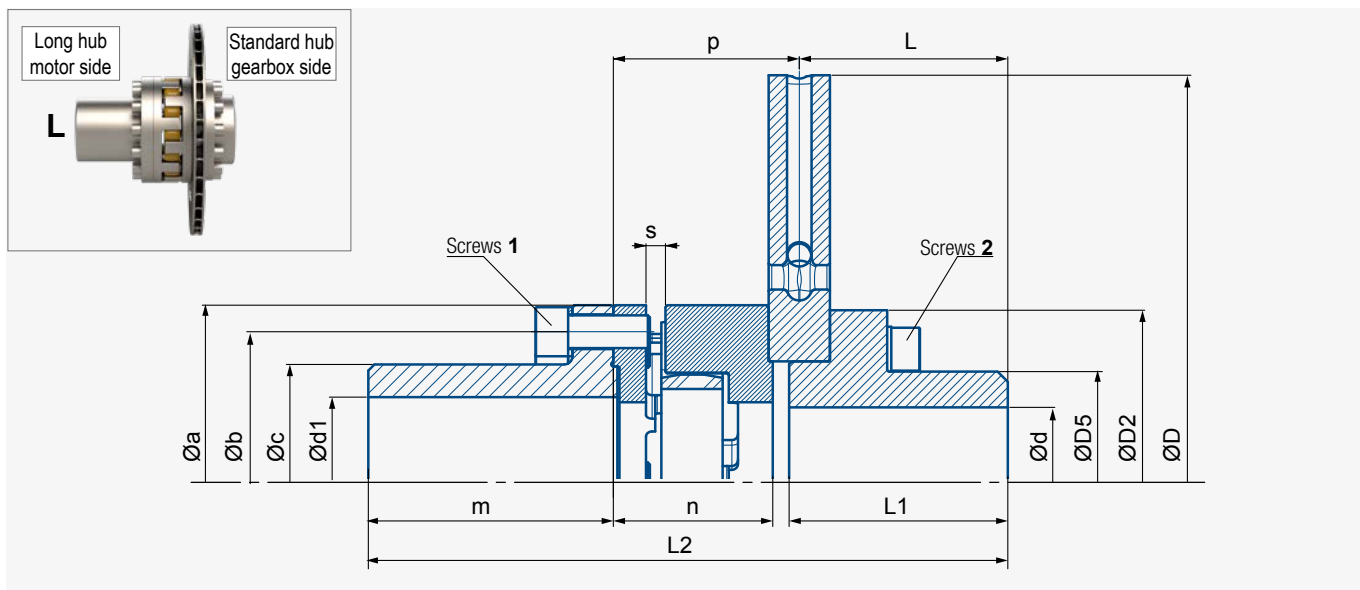
• Working temperature : -25°C to +80°C

**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	
<b>ASSEMBLY</b>	<b>J</b> with ventilated disc	kg.m <sup>2</sup>	0.17	0.18	0.27	0.42	0.68	0.73	1.2	1.74
	<b>J</b> with solid disc	kg.m <sup>2</sup>	0.26	0.27	0.41	0.66	1.04	1.09	1.69	2.68
	Max. weight bored	kg	27	31	37	48	57	64	96	107
	Maximum speed	r.p.m.	3000	3000	2700	2400	2100	2100	1800	1800
	L2	mm	286.5	298	298	331.5	364.5	364.5	412.5	412.5
<b>DISC</b>	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
<b>COUPLING</b>	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	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
<b>Tk</b> max in Nm	element	D	1110	1800	1800	2850	2850	4950	7740	7740
Transmissible torque ( <b>Tkn</b> )		<b>Tkn</b> ≤ <b>Tk</b> max/ <b>k</b>	<b>k min.</b>	Temperature Rate	<b>k=3</b>	< 40°C	<b>k=4</b>	< 80°C	<b>k=6</b>	≤ 80°C
( <b>Tkn</b> : motor nominal torque)		<b>Ts</b> < <b>Tk</b> max				≤ 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.  
Tightening tool dispersion = ±10%

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

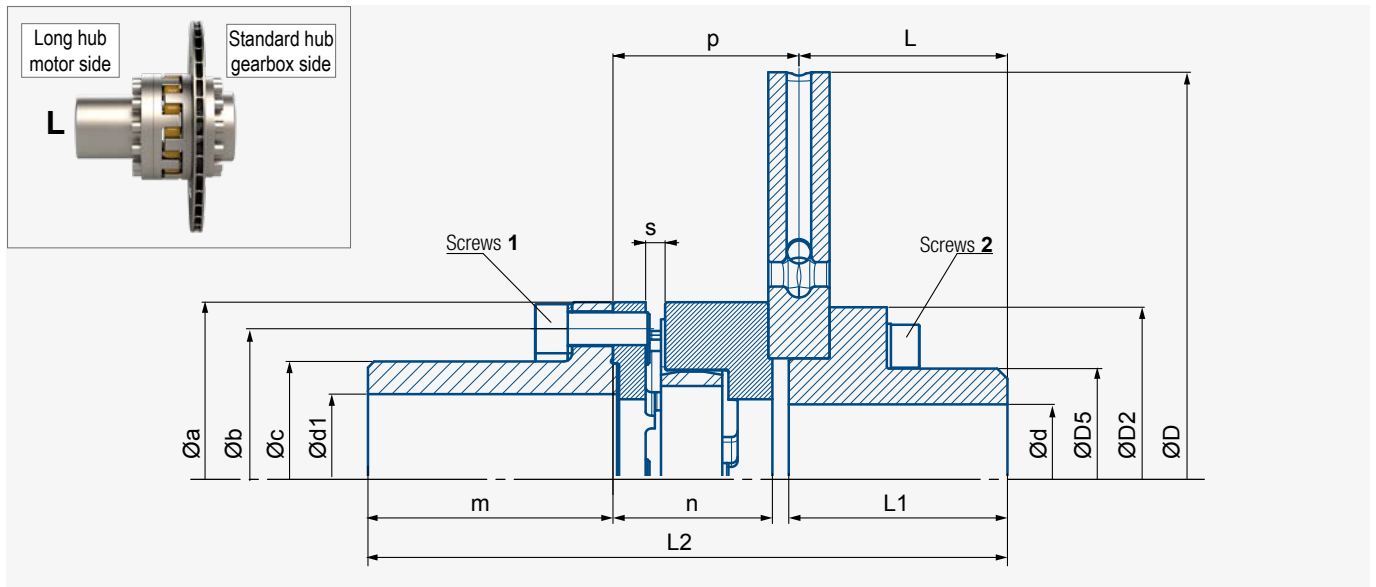
### SVKL AND SDKL DISC COUPLINGS

Revision number: T10152-01-I Revision date: 12.05.2020

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



Elastic couplings SVKL / SDKL			260			300			400			
Disc diameter (th.30)			550	625	705	625-2	705	705-2	795	705	795	
<b>ASSEMBLY</b>	<b>J with ventilated disc</b>	kg.m <sup>2</sup>	1.97	2.77	4.66	4.52	5.09	5.23	7.86	7.44	10.21	
	<b>J with solid disc</b>	kg.m <sup>2</sup>	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	
<b>DISC</b>	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	
	L	mm	135	135	135	135	135	135	135	135	135	
<b>COUPLING</b>	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		<b>k min.</b>	Temperature	<b>k=3</b>	< 40°C	<b>k=4</b>	< 80°C	<b>k=6</b>	< 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.  
 Tightening tool dispersion = ±10%

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



# Stromag – Flexible Couplings

## SVKL, SVW and SVR Couplings

### SVKL-ML AND SDKL-ML DISC COUPLINGS

Revision number: T10152-03-E Revision date: 12.05.2020

Elastic couplings serie **SVKL-ML & SDKL-ML**  
 Long hub on motor side and gearbox side  
 Ventilated discs, thickness : 30 mm

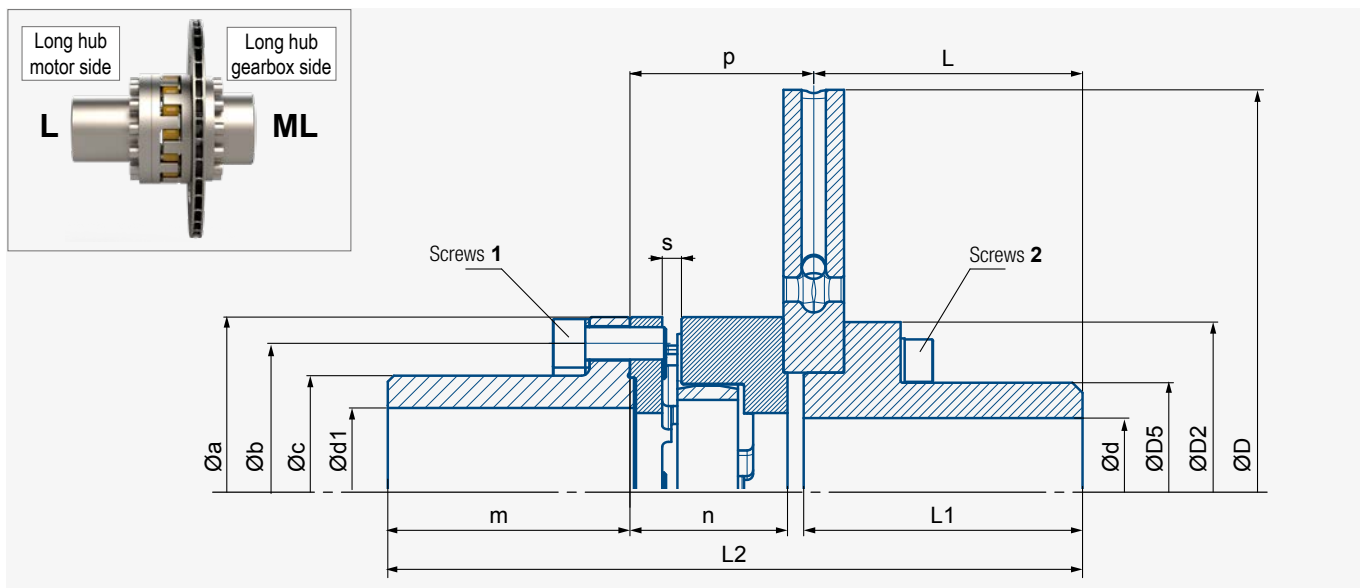
- **SVKL-ML:** Rubber element V
- **SDKL-ML:** Rubber element D
- Working temperature : -25°C to +80°C

**Option:**

- Solid Disc
- Painted coupling

Nota: In standard, couplings are delivered oiled without protection

Disc mounting and dismounting without moving the machines back



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.m <sup>2</sup>	0,181	0,191	0,273	0,425	0,686	0,736	1,223	1,763		
	J with solid disc	kg.m <sup>2</sup>	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 (Tk)			Tk ≤ Tkmax/k		k min.	Temperature Rate	k=3	< 40°C	k=4	< 80°C	k=6	≤ 80°C
(Tk: motor nominal torque)			Ts < Tkmax					≤ 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.  
 Tightening tool dispersion = ±10%

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

### SVKL-ML AND SDKL-ML DISC COUPLINGS

Revision number: T10152-03-E Revision date: 12.05.2020

Elastic couplings serie **SVKL-ML & SDKL-ML**  
 Long hub on motor side and gearbox side  
 Ventilated discs, thickness : 30 mm

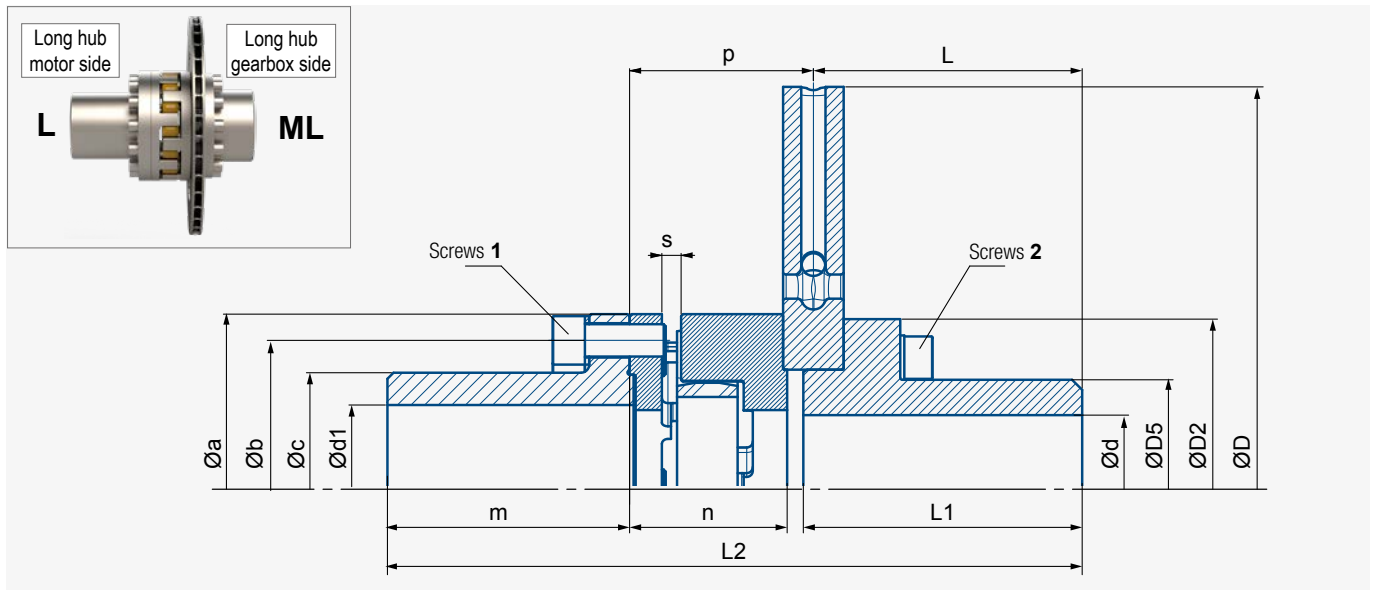
Disc mounting and dismounting without moving the machines back

- **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.m <sup>2</sup>	1,993	2,793	4,708	4,602	5,138	5,312	7,942	7,488	10,292	
	J with solid disc	kg.m <sup>2</sup>	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	
	L	mm	195	195	195	195	195	195	195	195	195	
COUPLING	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	element	D	11940	11940	11940	17550	17550	17550	17550	30360	39700
Transmissible torque (Tk <sub>n</sub> ) (Tk <sub>n</sub> : motor nominal torque)			Tk <sub>n</sub> ≤ Tk <sub>max</sub> /k	k min.	Temperature Rate	k=3 < 40°C ≤ 120 starts/h	k=4 < 80°C ≤ 240 starts/h	k=6 < 80°C ≤ 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. Tightening tool dispersion = ±10%

Ts: motor starting torque. In all cases, Ts < Tk<sub>max</sub>

# Stromag – Flexible Couplings

## SVKL, SVW and SVR Couplings

### SVW AND SDW COUPLINGS

Revision number: T10156-01-C Revision date: 12.05.2020

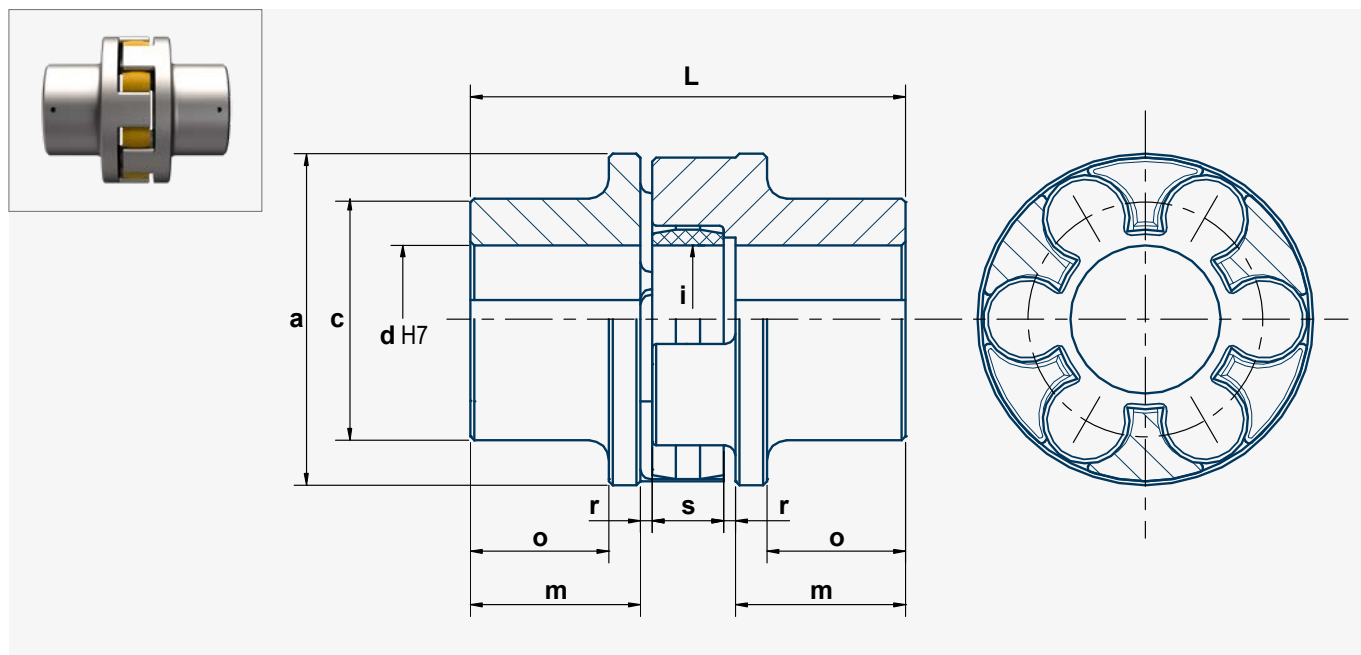
- Cam ring **V** (SVW)
- Cam ring **D** (SDW)

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

#### Option:

- Long or 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 50D	70V 70D	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	
Nominal torque TCN	SVW Nm	15	55	90	160	300	480	760	1150	2060	3180	4680	10680	
	SDW Nm			140	240	440	720	1140	1980	3090	4780	7020	16020	
Max. torque TCmax	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	
Max. r.p.m.	tr/mn	9000	7500	7000	5600	5000	5000	4000	3600	3200	2500	2000	1750	
Mass moment of inertia	kgm <sup>2</sup>	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	
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

### SVR AND SDR COUPLINGS

Revision number: T10174-01-A Revision date: 12.05.2020

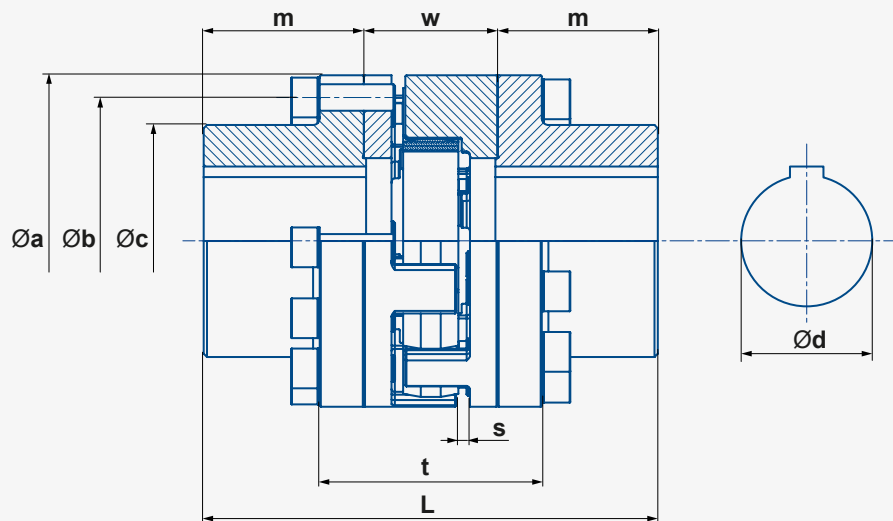
Elastic couplings series **SVR** and **SDR**

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

**Option:**

- Long hub (motor or/and gearbox side), consult us
  - Painted coupling
- Nota: In standard, couplings are delivered oiled without protection



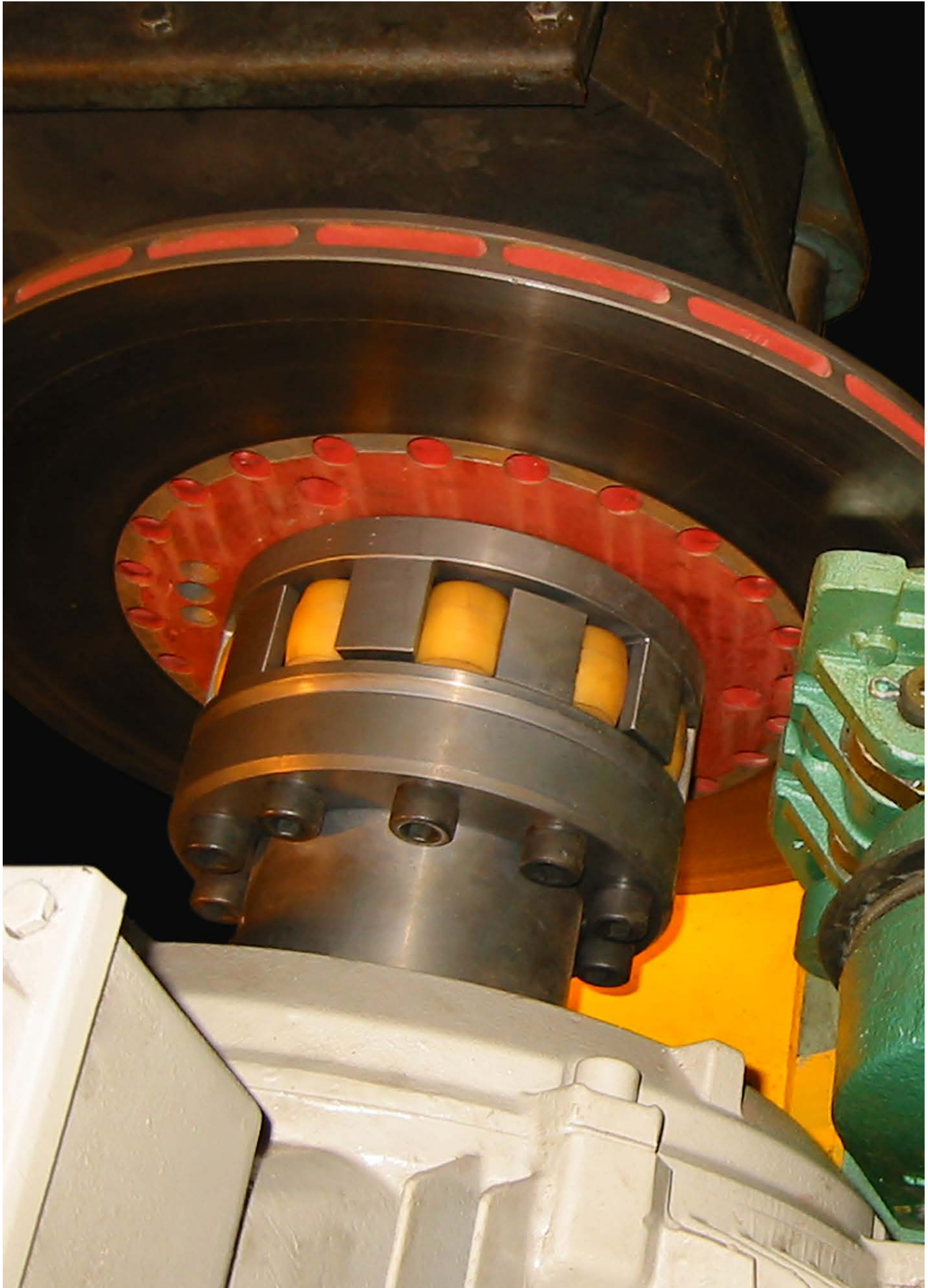
Coupling size SVR- / SDR-		125	145	170	200	230	260	300	400	
Inertia J	kg.m <sup>2</sup>	0,02	0,037	0,077	0,16	0,312	0,63	1,296	4,288	
Max. weight bored	kg	11	16	25	38,5	56	86	134	255	
Maximum speed	r.p.m.	3000	3000	2400	2100	1800	1800	1500	1300	
L		194	218	247	292	304	364	411	487	
t	mm	102	108	117	132	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	
	Rubber element D	1110	1800	2850	4950	7740	11940	17550	39700	
Transmissible torque (Tkn) (Tkn: motor nominal torque)		$Tkn \leq Tkmax/k$ $Ts < Tkmax$	<b>k min.</b>	Temperature Rate	<b>k=3</b>	< 40°C ≤ 120 starts/h	<b>k=4</b>	< 80°C ≤ 240 starts/h	<b>k=6</b>	≤ 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**

# Stromag – Flexible Couplings

SVKL, SVW and SVR Couplings





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