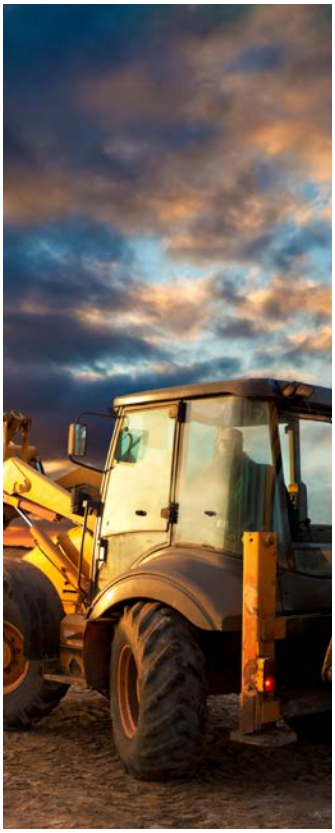
ALTRA MOTION

Stromag Periflex® VN Disc Couplings



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.

VISIT US ON THE WEB AT **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 and **Wichita** Clutch.

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CONTENT

COUPLING AT A GLANCE

PERIFLEX® DISC COUPLING PRODUCT RANGE

SERIES G

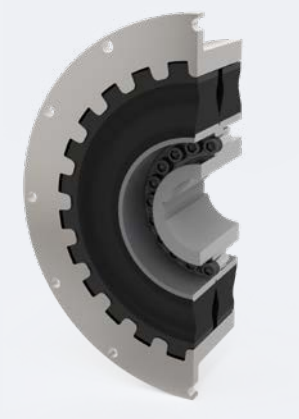
Nominal torque range: 160 – 63,000 Nm

PERIFLEX® VN ... SERIES G

SERIES R - Radial installations

Nominal torque range: 160 – 63,000 Nm

PERIFLEX® VN ... SERIES R



PERIFLEX® VP ... SERIES G

PERIFLEX® VP ... SERIES R

COUPLING AT A GLANCE

SERIES S

Nominal torque range: 160 – 8000 Nm

PERIFLEX® VN ... SERIES S

SERIES W - Shaft Coupling

Nominal torque range: 160 – 63,000 Nm

PERIFLEX® VN ... SERIES W

PERIFLEX® VP ... SERIES W

COUPLING AT A GLANCE

STROMAG PERIFLEX® VN DISC COUPLINGS

BENEFITS INCLUDE

- Periflex® VN Couplings are highly flexible elastomer couplings with linear spring characteristics ideal for diesel engine drives.
- Allow fast and simple connection of a flange, especially a flywheel, to a shaft. Some designs also allow the connection of two shafts.
- Periflex® VN Couplings are couplings that features an axial plug-in connection for easy installation and removal, for both the entire coupling and the flexible element.
- Come with each with a range of elastomer qualities and torsional spring stiffnesses. These allow precise configurations for drives susceptible to torsional vibrations.
- Cover the torque range 160 – 63,000 Nm. The external companion dimensions conform as standard to the flywheel connections under the SAE standard J620.
  The larger couplings are basically designed with metric flywheel connections.
- At the fully intermeshing teeth on the connection ring, the disc tire can be displaced along its axis by several millimeters when no torque is applied.
- On request, high temperature mixture available for stationary systems up to 8000 Nm.

COUPLING AT A GLANCE

APPLICATION AREAS

- Stromag Periflex® VN couplings are designed for use on piston engines. The connection ring can be bolted directly to the flywheel of an engine or compressor.
- Its axial plug-in design presents particular advantages e.g. for installations under bell covers.
- Other application fields are electrical assemblies, compressors, construction machinery, engine and shipbuilding and general machinery.

FAIL-SAFE DEVICE

The Stromag Periflex® VN coupling is available with a fail-safe device. A rupture in the flexible element causes claws to intermesh, forming a torsionally rigid, backlash connection between the drive and output sides. Temporary emergency operation is possible with limited torque. The permissible torques and speeds must be calculated separately on the basis of torsional vibrations transferred via a torsionally rigid structure.

COUPLING AT A GLANCE

CLASSIFICATIONS

For survey of the coupling by a classification society, the regulations of the society have to be adhered to. The coupling characteristics may differ from the definitions given in this catalogue. Accordingly prepared data sheets are available on request.

A number of classification societies prescribe fail-safe devices on ships main drives.

TORQUE RANGE

- 160 up to 63,000 Nm

INSTRUCTION FOR THE DESIGNER

The Stromag Periflex® VN coupling hubs are made of steel or ductile cast iron. The connection ring is made of aluminium. The disc tires consist of a steel or ductile cast iron angular ring with a volume of vulcanized elastomer. The variants of natural rubber (NR) can be used at temperatures of -50°C to +80°C. The high temperature Coupling variant can be used from -30 °C up to 120 °C.

Damping work may cause the flexible element to reach temperatures higher than ambient. This must be considered when the coupling is to be fitted with a guard or cowl, and adequate ventilation and heat dissipation must be provided.

The Stromag Periflex® VN coupling can be delivered with EN 10204 acceptance as defined in the classification societies rules.

The coupling complies with the requirements under API 671 with consideration to our list of deviations TM 800.0010.

This list of deviations is available from the Stromag GmbH departments.

USE IN POTENCIALLY EXPLOSIVE ENVIROMENTS

The coupling conforms to the requirements under Directive 2014/34/EU and can be used as follows:

a. **Zone 1** (gas, Category 2G) in Groups IIA, IIB, and IIC, T4

b. **Zone 2** (gas, Category 3G) in Groups IIA, IIB, and IIC, T4

c. **Zone 22** (dust, Category 3D) for dusts with a minimum ignition energy > 3 mJ, T 125 °C

The Stromag Periflex® VN coupling compliance with the requirements for each of these zones / categories is documented in the form of the following codes on our products:

Use in gas atmospheres:

CE Ex II 2G Ex h IIC (T4) Gb

Use in dust atmospheres:

CE Ex II 3D Ex h IIIC T120°C Dc

Use in potentially explosive environments must be based on the request form annexed to this catalogue.

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 a daily basis, 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 Periflex® VN Disc Coupling

Stromag Periflex® VN Disc Coupling

Stromag Periflex® VN NR Series output table

Coupling size	Tire	Nominal torque T_{kn} Nm	Max torque Tk_{max} 1) Nm	Adm. alternating torque T_{KW} Nm	Adm. radial displacement ΔK_r mm	Radial stiffness $C_{r\,dyn}$ 4) N/mm	Torsional stiffness $C_{T\,dyn}$ 2) 4) Nm/rad	Relative damping ψ 2) 4)	Adm. damping power $P_{KV\,60}$ 3) 5) W	SAE connection	Max Speed n_{max} rpm
Periflex® VN 183	VN 18311 VN 18331 VN 18321 VN 18341 VN 18351	160 200 200 200 200	480 480 480 480 480	80 100 100 100 100	0,4	375 600 730 900 1500	1150 1510 1900 2240 3910	0,80 0,96 1,00 1,20 1,30	104 104 104 104 104	6 ½" 7 ½" 8"	5000 4400 4000
Periflex® VN 230	VN 23011 VN 23031 VN 23021 VN 23041 VN 23051	250 315 315 315 315	750 750 750 750 750	125 155 155 155 155	0,5	400 650 800 950 1600	1510 2000 2760 3260 5690	0,80 0,96 1,00 1,20 1,30	156 156 156 156 156	8" 10"	4000 3600
Periflex® VN 280	VN 28011 VN 28031 VN 28021 VN 28041 VN 28051	400 500 500 500 500	1200 1200 1200 1200 1200	200 250 250 250 250	0,6	350 750 900 1060 1750	2280 3300 4160 4920 8580	0,80 0,96 1,00 1,20 1,30	221 221 221 221 221	10" 11 ½ "	3600 3600
Periflex® VN 283	VN 28311 VN 28331 VN 28321 VN 28341 VN 28351	630 800 800 800 800	1900 1900 1900 1900 1900	315 400 400 400 400	0,6	500 1050 1270 1500 2450	3760 5450 7200 8120 14170	0,80 0,96 1,00 1,20 1,30	234 234 234 234 234	10" 11 ½"	3600 3600
Periflex® VN 350	VN 35011 VN 35031 VN 35021 VN 35041 VN 35051	1000 1250 1250 1250 1250	3000 3000 3000 3000 3000	500 625 625 625 625	0,7	750 1200 1500 1800 3000	7660 11100 13990 16540 28860	0,80 0,96 1,00 1,20 1,30	260 260 260 260 260	11 ½" 14	3600 3000
Periflex® VN 358	VN 35811 VN 35831 VN 35821 VN 35841 VN 35851	1600 2000 2000 2000 2000	4800 4800 4800 4800 4800	800 1000 1000 1000 1000	0,5	3400 5100 6300 7650 12600	16700 24200 33200 36060 58500	0,80 0,96 1,00 1,20 1,30	260 260 260 260 260	11 ½" 14"	3600 3000
Periflex® VN 430	VN 43011 VN 43031 VN 43021 VN 43041 VN 43051	1600 2000 2000 2000 2000	4800 4800 4800 4800 4800	800 1000 1000 1000 1000	0,9	660 1400 1700 2000 3300	7800 11300 13900 16840 29380	0,80 0,96 1,00 1,20 1,30	494 494 494 494 494	14" 18"	3000 2400

Stromag Periflex® VN Disc Coupling

Stromag Periflex® VN NR Series output table

Coupling size	Tire	Nominal torque	Max torque	Adm. alternating torque	Adm. radial displacement	Radial stiffness	Torsional stiffness	Relative damping	Adm. damping power	SAE connection	Max Speed
		T_{KN} Nm	T_{Kmax} 1) Nm	T_{KW} Nm	ΔK_r mm	$C_{r\ dyn}$ 4) N/mm	$C_{T\ dyn}$ 2) 4) Nm/rad	ψ 2) 4)	$P_{KV\ 60}$ 3) 5) W		n_{max} rpm
Periflex® VN 433	VN 43311 VN 43331 VN 43321 VN 43341 VN 43351	2500 3150 3150 3150 3150	7500 7500 7500 7500 7500	1250 1550 1550 1550 1550	0,8	1400 2300 2870 3450 5700	18630 27000 34020 40230 70200	0,80 0,96 1,00 1,20 1,30	520 520 520 520 520	14“ 18	3000 2400
Periflex® VN 436	VN 43611 VN 43631 VN 43621 VN 43641 VN 43651	4000 5000 5000 5000 5000	12000 12000 12000 12000 12000	2000 2500 2500 2500 2500	0,7	2300 3800 4750 5700 9400	25400 34600 46600 53640 93600	0,80 0,96 1,00 1,20 1,30	572 572 572 572 572	14“ 16“ 18“	3000 2600 2400
Periflex® VN 439	VN 43911 VN 43931 VN 43941 VN 43951	3200 4000 4000 4000	10000 10000 10000 10000	1600 2000 2000 2000	0,7	1750 2600 3900 6500	36230 52500 76000 136500	0,80 0,96 1,20 1,30	390 390 390 390	14“ 16“ 18“	3000 2600 2400
Periflex® VN 544	VN 54411 VN 54431 VN 54421 VN 54441 VN 54451	6300 8000 8000 8000 8000	19000 19000 19000 19000 19000	3150 4000 4000 4000 4000	0,8	3100 5100 7600 11400 17100	62790 91000 114700 135600 226400	0,80 0,96 1,00 1,20 1,30	622 622 622 622 622	18“ 21“	2400 1800
Periflex® VN 549	VN 54911 VN 54931 VN 54921 VN 54941 VN 54951	8000 9000 9500 11000 12000	17000 20000 21000 22000 25000	4000 4500 4750 5500 6000	0,8	6000 9000 11250 13500 22000	88320 128000 161300 204700 332800	0,80 0,96 1,00 1,20 1,30	650 650 650 650 650	18“ 21“	2400 1800
Periflex® VN 666	VN 66611 VN 66631 VN 66621 VN 66641 VN 66651	16000 20000 20000 20000 20000	48000 48000 48000 48000 48000	8000 10000 10000 10000 10000	0,8	6100 10200 15200 22800 34200	111800 162000 205000 241400 428500	0,80 0,96 1,00 1,20 1,30	1100 1100 1100 1100 1100	21“ 24“	1800 1500
Periflex® VN 726	VN 72611 VN 72631 VN 72621 VN 72641 VN 72651	28500 31500 31500 31500 31500	68500 75500 75500 75500 75500	14250 15750 15750 15750 15750	0,8	7080 11800 17630 26450 39670	225000 300000 370000 530000 950000	0,80 0,96 1,00 1,20 1,30	1300 1300 1300 1300 1300	24“	1500

Stromag Periflex® VN Disc Coupling

Stromag Periflex® VP NR Series output table

Coupling size	Tire	Nominal torque T_{KN} Nm	Max torque T_{Kmax} 1) Nm	Adm. alternating torque T_{KW} Nm	Adm. radial displacement ΔK_r mm	Radial stiffness $C_{r\,dyn}$ 4) N/mm	Torsional stiffness $C_{T\,dyn}$ 2) 4) Nm/rad	Relative damping ψ 2) 4)	Adm. damping power $P_{KV\,60}$ 3) 5) W	SAE connection	Max Speed n_{max} rpm
Periflex® VP 433	VN 43311 VN 43331 VN 43321 VN 43341 VN 43351	5000 6300 6300 6300 6300	15000 15000 15000 15000 15000	2500 3100 3100 3100 3100	0,8	2800 4600 5740 6900 11400	37260 54000 68040 80460 140400	0,80 0,96 1,00 1,20 1,30	1040 1040 1040 1040 1040	18“	2400
Periflex® VP 436	VN 43611 VN 43631 VN 43621 VN 43641 VN 43651	8000 10000 10000 10000 10000	24000 24000 24000 24000 24000	4000 5000 5000 5000 5000	0,7	4600 7600 9500 11400 18800	50800 69200 93200 107300 187200	0,80 0,96 1,00 1,20 1,30	1140 1140 1140 1140 1140	18“	2400
Periflex® VP 439	VN 43911 VN 43931 VN 43941 VN 43951	6400 8000 8000 8000	20000 20000 20000 20000	3200 4000 4000 4000	0,7	3500 5200 7800 13000	72460 105000 152000 273000	0,80 0,96 1,20 1,30	780 780 780 780	18“	2400
Periflex® VP 544	VN 54411 VN 54431 VN 54421 VN 54441 VN 54451	12600 16000 16000 16000 16000	38000 38000 38000 38000 38000	6300 8000 8000 8000 8000	0,8	6200 10200 15200 22800 34200	125600 182000 229300 271200 452800	0,80 0,96 1,00 1,20 1,30	1240 1240 1240 1240 1240	21“	1800
Periflex® VP 549	VN 54911 VN 54931 VN 54921 VN 54941 VN 54951	16000 18000 19000 22000 24000	34000 40000 42000 44000 50000	8000 9000 9500 11000 12000	0,8	12000 18000 22500 27000 44000	176600 256000 322600 400400 665600	0,80 0,96 1,00 1,20 1,30	1300 1300 1300 1300 1300	21“	1800
Periflex® VP 666	VN 66611 VN 66631 VN 66621 VN 66641 VN 66651	32000 40000 40000 40000 40000	96000 96000 96000 96000 96000	16000 20000 20000 20000 20000	0,8	12200 20400 30400 45600 68400	223600 324000 410000 482800 857000	0,80 0,96 1,00 1,20 1,30	2200 2200 2200 2200 2200	24“	1500
Periflex® VP 726	VN 72611 VN 72631 VN 72621 VN 72641 VN 72651	57000 63000 63000 63000 63000	137000 151000 151000 151000 151000	28500 31500 31500 31500 31500	0,8	14160 23600 35260 52900 79340	450000 600000 740000 1060000 1900000	0,80 0,96 1,00 1,20 1,30	2600 2600 2600 2600 2600	metric	1500

1) The values listed in the tables refer to the disc tire characteristics.

2) For: $T_W = 0{,}2 \bullet T_{KN}$; $T = 0{,}8 \bullet T_{KN}$; f = 10 Hz; $\vartheta = 30°C$

3) This value must be reduced by the temperature factor when the coupling temperatures are higher than 30°C.

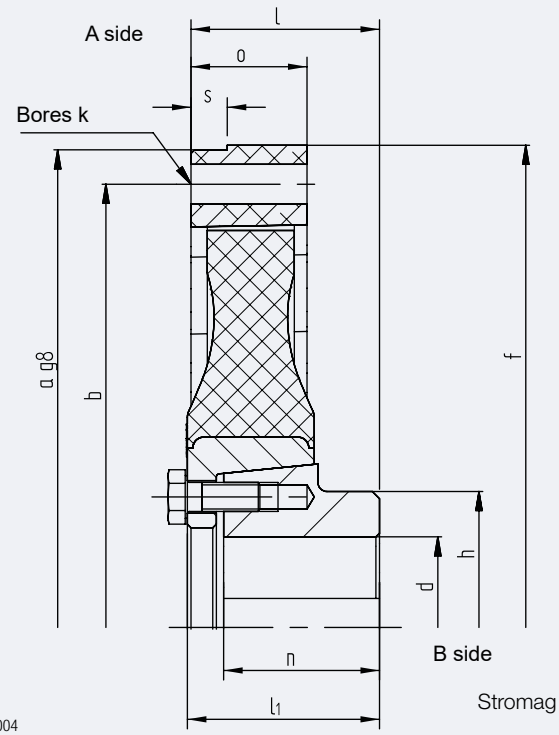
4) Tolerances on the materials may be as high as ±15%.

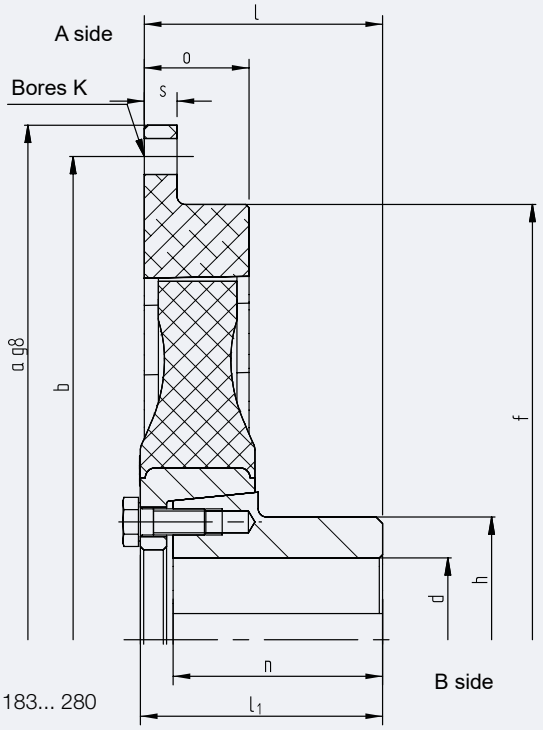
5) $P_{KV\,60}$ value represents the damping power that can be absorbed over a period of 60 minutes.
The damping power that can be absorbed permanently is $P_{KV\infty} = 0{,}5 \bullet P_{KV\,60}$.

Temperature factor $S_{\vartheta PKV}$						
Ambient temperature [°C]	-30 °C up to 30°C	40	50	60	70	80
Temperature factor $S_{\vartheta PKV}$ [-]	1,0	0,875	0,750	0,625	0,500	0,375

Stromag Periflex® VN Disc Coupling

Stromag Periflex® VN...G Series





Stromag Periflex® VN 183... 280

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Size		Periflex® VN 183			Periflex® VN 230		Periflex® VN 280		Periflex® VN 283		Periflex® VN 350		Periflex® VN 358		Periflex® VN 430	
Tire		VN 18311 VN 18331 VN 18321 VN 18341 VN 18351			VN 23011 VN 23031 VN 23021 VN 23041 VN 23051		VN 28011 VN 28031 VN 28021 VN 28041 VN 28051		VN 28311 VN 28331 VN 28321 VN 28341 VN 28351		VN 35011 VN 35031 VN 35021 VN 35041 VN 35051		VN 35811 VN 35831 VN 35821 VN 35841 VN 35851		VN 43011 VN 43031 VN 43021 VN 43041 VN 43051	
SAE Connection		6½"	7½"	8"	8"	10"	10"	11½"	10"	11½"	11½"	14"	11½"	14"	14"	18"
Diameter mm	a	215.9	241.3	263.5	263.5	314.4	314.4	352.4	314.4	352.4	352.4	466.7	352.4	466.7	466.7	571.5
	b	200	222.3	244.5	244.5	295.3	295.3	333.4	295.3	333.4	333.4	438.2	333.4	438.2	438.2	542.9
	d_{max}	45	45	45	50	50	60	60	70	70	85	85	95	95	95	95
	f	218	218	218	266	266	316	316	316	316	355	355	355	355	468	468
	h	70	70	70	75	75	90	90	98	98	119	119	132	132	132	132
Bore k mm		6x9	8x9	6x11	6x11	8x11	8x11	8x11	8x11	8x11	8x11	8x13.5	8x11	8x13.5	8x13.5	6x17.5
Lengths mm	l 1)	40	40	52	52	72,8	72,8	106,6	72,8	106,6	106,6	92,4	106,6	92,4	92,4	82,7
	l_1	45	45	57	53	74	76	110	–*	–*	–*	–*	–*	–*	–*	–*
	n	35	35	47	43	64	65	99	82	105	105	105	105	105	105	105
	o	25	25	25	32	32	40	40	40	40	55	55	55	55	54	80
	s	8	8	8	10	10	10	10	10	10	10	12	10	12	15	20
Mass moment of inertia kg m²	J_A side	0.0076	0.0103	0.0134	0.0203	0.0329	0.0429	0.0574	0.0485	0.0625	0.0818	0.2033	0.0842	0.1915	0.2945	0.7205
	J_B side 2)	0.0036	0.0036	0.0038	0.0079	0.0083	0.0186	0.0199	0.0235	0.0245	0.0547	0.0546	0.0855	0.0849	0.1265	0.1255
Mass kg 2)		2.7	2.59	3.3	4.2	5.2	7.0	8.5	7.6	8.9	13.4	15.7	15.8	17.7	19.8	26.4

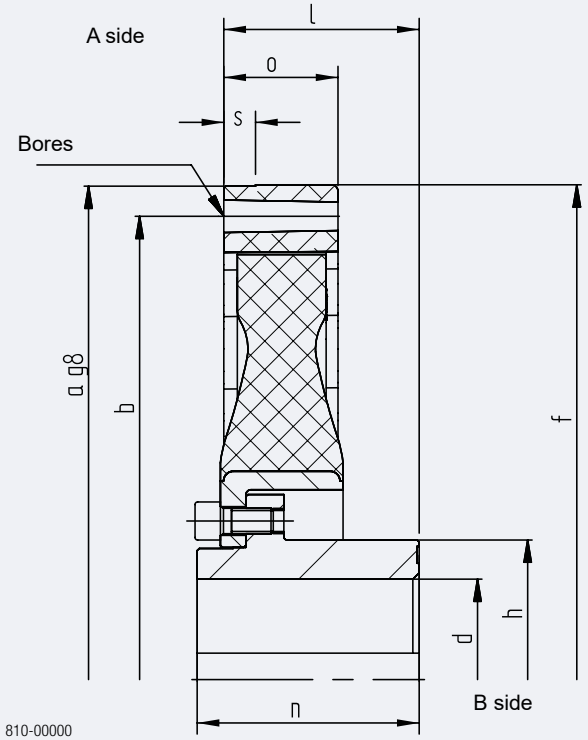
*) Dim l_1 not applicable on this version

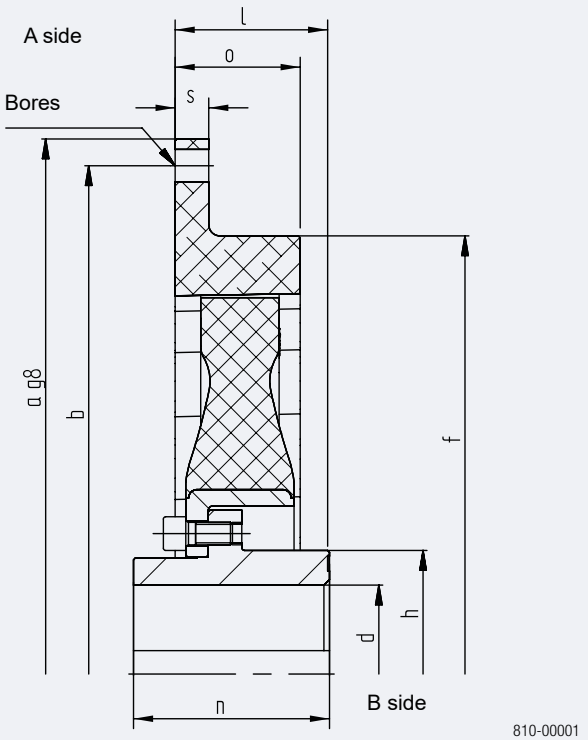
1) Dim. l can be modified by moving the connection ring within specified tolerances

2) at max. bore d

Stromag Periflex® VN Disc Coupling

Stromag Periflex® VN...G Series





Size		Periflex® VN 433		Periflex® VN 436			Periflex® VN 439			Periflex® VN 544		Periflex® VN 549		Periflex® VN 666		Periflex® VN 726
Tire		VN 43311 VN 43331 VN 43321 VN 43341 VN 43351		VN 43611 VN 43631 VN 43621 VN 43641 VN 43651			VN 43911 VN 43931 – VN 43941 VN 43951			VN 54411 VN 54431 VN 54421 VN 54441 VN 54451		VN 54911 VN 54931 VN 54921 VN 54941 VN 54951		VN 66611 VN 66631 VN 66621 VN 66641 VN 66651		VN 72611 VN 72631 VN 72621 VN 72641 VN 72651
SAE Connection		14“	18“	14“	16“	18“	14“	16“	18“	18“	21“	18“	21“	21“	24“	24“
Diameter mm	a	466.7	571.5	466.7	517.5	571.5	466.7	517.5	571.5	571.5	673.1	571.5	673.1	673.1	733.4	733.4
	b	438.2	542.9	438.2	489	542.9	438.2	489	542.9	542.9	641.4	542.9	641.4	641.4	692.2	692.2
	d_{max}	110	110	120	120	120	130	130	130	160	160	180	180	190	190	250
	f	468	468	468	468	468	–	455	455	572	572	572	572	692	692	761
	h	154	154	168	168	168	185	185	185	225	225	300	300	270	270	350
Bore k mm		8x13.5	6x17.5	8x13.5	8x13.5	6x17.5	8x13.5	8x13.5	6x17.5	12x17.5	12x17.5	12x17.5	12x17.5	12x17.5	12x20	24x20
Lengths mm	l [1]	92.4	82.7	92.4	130.7	130.7	92.4	130.7	130.7	130.7	140	130.7	140	213	213	295
	l_1	–*	–*	–*	135	135	–*	–*	–*	–*	–*	–*	–*	–*	–*	–*
	n	105	105	105	130	130	105	130	130	130	130	130	150	190	190	260
	o	80	80	80	80	80	65	70	70	90	140	90	140	142	142	174
	s	15	20	15	20	20	8	25	25	20	25	15	25	15	31	16
Mass moment of inertia kg m²	J^a side	0.353	0.679	0.375	0.528	0.701	0.253	0.512	0.748	1.023	2.254	1.009	2.055	3.608	4.208	4.865
	J_B side[2]	0.230	0.229	0.306	0.320	0.320	0.315	0.333	0.333	0.890	0.852	1.299	1.324	2.578	2.578	6.296
Mass kg[2]		28.7	33.4	33.4	38.4	40.7	30.9	38.8	42	62.2	75.6	77.2	91.7	131.5	136.3	213.8

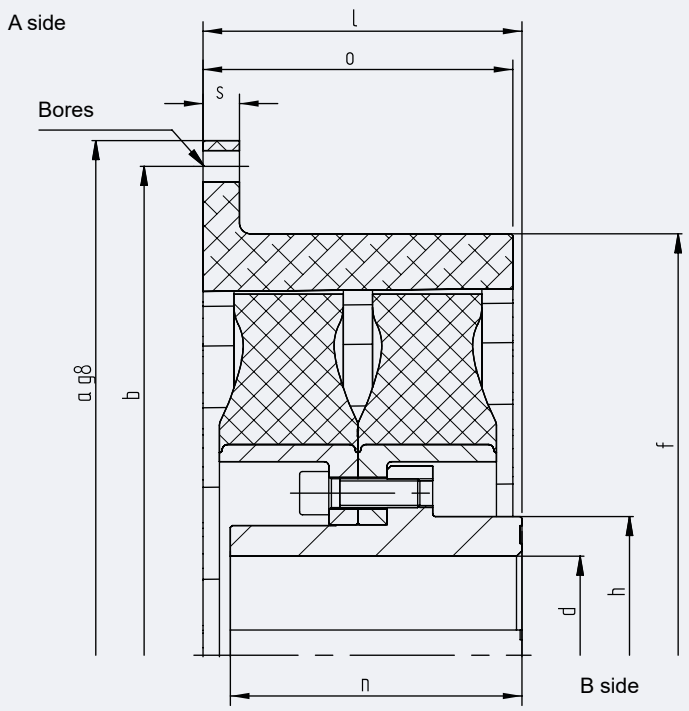
*) Dim l_1 not applicable on this version

1) Dim. l can be modified by moving the connection ring within specified tolerances

2) at max. bore d

Stromag Periflex® VN Disc Coupling

Stromag Periflex® VP...G Series



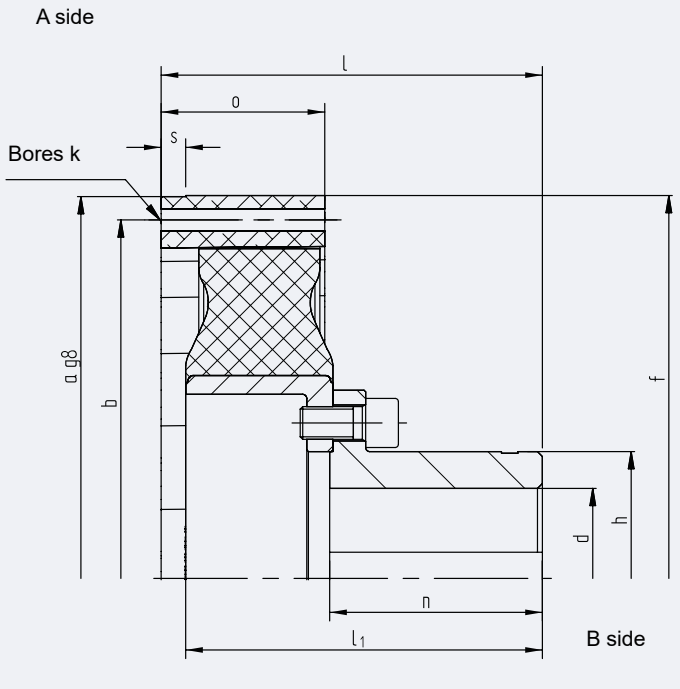
810-00013

Size		Periflex® VP 433	Periflex® VP 436	Periflex® VP 439	Periflex® VP 544	Periflex® VP 549	Periflex® VP 666	Periflex® VP 726
Tire		VN 43311 VN 43331 VN 43321 VN 43341 VN 43351	VN 43611 VN 43631 VN 43621 VN 43641 VN 43651	VN 43911 VN 43931 VN 43941 VN 43951	VN 54411 VN 54431 VN 54421 VN 54441 VN 54451	VN 54911 VN 54931 VN 54921 VN 54941 VN 54951	VN 66611 VN 66631 VN 66621 VN 66641 VN 66651	VN 72611 VN 72631 VN 72621 VN 72641 VN 72651
SAE Connection		18“	18“	18“	21“	21“	24“	-
Diameter mm	a b d_{max} f h	571.5 542.9 100 468 154	571.5 542.9 110 468 168	571.5 542.9 130 455 185	673.1 641.4 160 572 225	673.1 641.4 180 572 300	733.4 692.2 190 692 270	995 950 250 803 350
Bore k mm		12x17.5	12x17.5	12x17.5	12x17.5	12x17.5	12x20.0	32x21.0
Lengths mm	l [1] n o s	175 160 170 20	180 160 170 20	180 160 180 25	244 220 220 25	285 200 220 25	286 250 276 31	370 350 324 32
Mass moment of inertia kg m²	J_A side J_B side[2]	1.186 0.439	1.228 0.582	1.205 0.568	3.120 1.587	3.132 2.384	7.702 4.545	15.850 8.730
Mass kg[2]		61.7	70.0	67.3	125.0	151.0	229.6	367.4

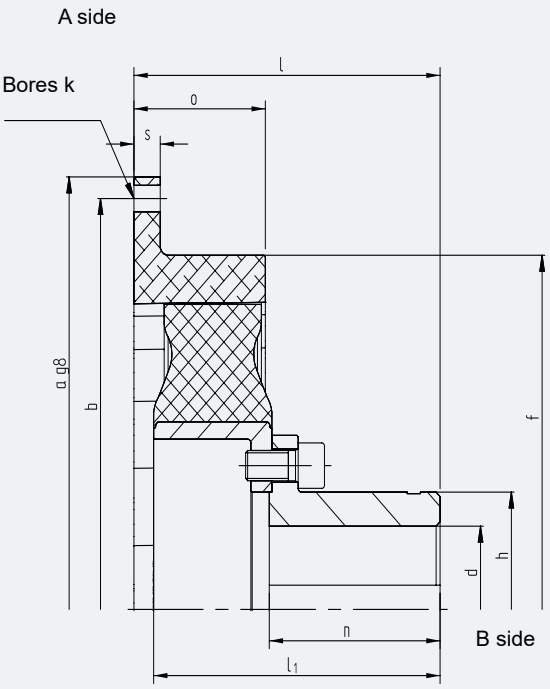
1) Dim. l can be modified by moving the connection ring within specified tolerances
2) at max. bore d_1 and d_2

Stromag Periflex® VN Disc Coupling

Stromag Periflex® VN...R Series



810-00006



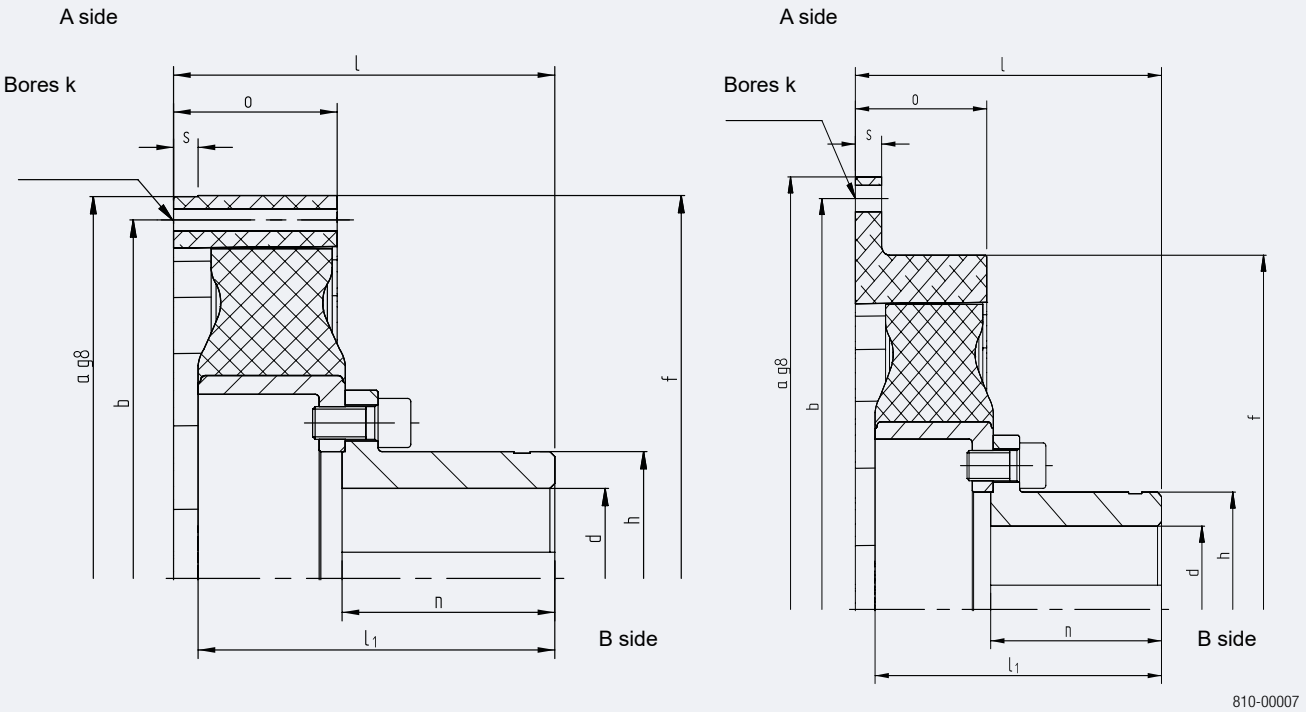
810-00007

Size		Periflex® VN 183			Periflex® VN 230		Periflex® VN 280		Periflex® VN 283		Periflex® VN 350		Periflex® VN 358		Periflex® VN 430	
Tire		VN 18311 VN 18331 VN 18321 VN 18341 VN 18351			VN 23011 VN 23031 VN 23021 VN 23041 VN 23051		VN 28011 VN 28031 VN 28021 VN 28041 VN 28051		VN 28311 VN 28331 VN 28321 VN 28341 VN 28351		VN 35011 VN 35031 VN 35021 VN 35041 VN 35051		VN 35811 VN 35831 VN 35821 VN 35841 VN 35851		VN 43011 VN 43031 VN 43021 VN 43041 VN 43051	
SAE-Connection		6½“	7½“	8“	8“	10“	10“	11½“	10“	11½“	11½“	14“	11½“	14“	14“	18“
Diameter mm	a	215.9	241.3	263.5	263.5	314.4	314.4	352.4	314.4	352.4	352.4	466.7	352.4	466.7	466.7	571.5
	b	200	222.3	244.5	244.5	295.3	295.3	333.4	295.3	333.4	333.4	438.2	333.4	438.2	438.2	542.9
	d_{max}	43	43	43	50	50	55	55	65	65	80	80	85	85	85	85
	f	218	218	218	266	266	316	316	316	316	355	355	355	355	468	468
	h	61	61	61	70	70	75	75	90	90	112	112	120	120	120	120
Bore k mm		6x9	8x9	6x11	6x11	8x11	8x11	8x11	8x11	8x11	8x11	8x13.5	8x11	8x13.5	8x13.5	6x17.5
Lengths mm	l [1]	108	108	108	113	113	125	125	158	158	160	160	170	170	178	178
	l_1	93	93	93	98	98	110	110	156	156	147	147	164	164	161	161
	n	60	60	60	65	65	70	70	105	105	105	105	105	105	105	105
	o	45	45	45	48.5	48.5	55	55	55	40	55	55	55	55	80	80
	s	8	8	8	10	10	10	10	10	10	10	10	10	12	15	20
Mass moment of inertia kg m²	J_A side	0.0125	0.0429	0.0539	0.0286	0.097	0.0617	0.1421	0.0634	0.0625	0.0998	0.1980	0.1028	0.2063	0.3925	0.7205
	J_B side [2]	0.0036	0.0036	0.0036	0.008	0.008	0.0173	0.0173	0.0248	0.0248	0.0533	0.0533	0.0870	0.0870	0.1225	0.1225
Mass kg [2]		3.3	4.75	5.8	4.8	7.8	7.2	10.0	9.1	9.9	13.1	15.5	16.5	18.9	21.4	26.3

1) Dim. l can be modified by moving the connection ring within specified tolerances
2) at max. bore d

Stromag Periflex® VN Disc Coupling

Stromag Periflex® VN...R Series

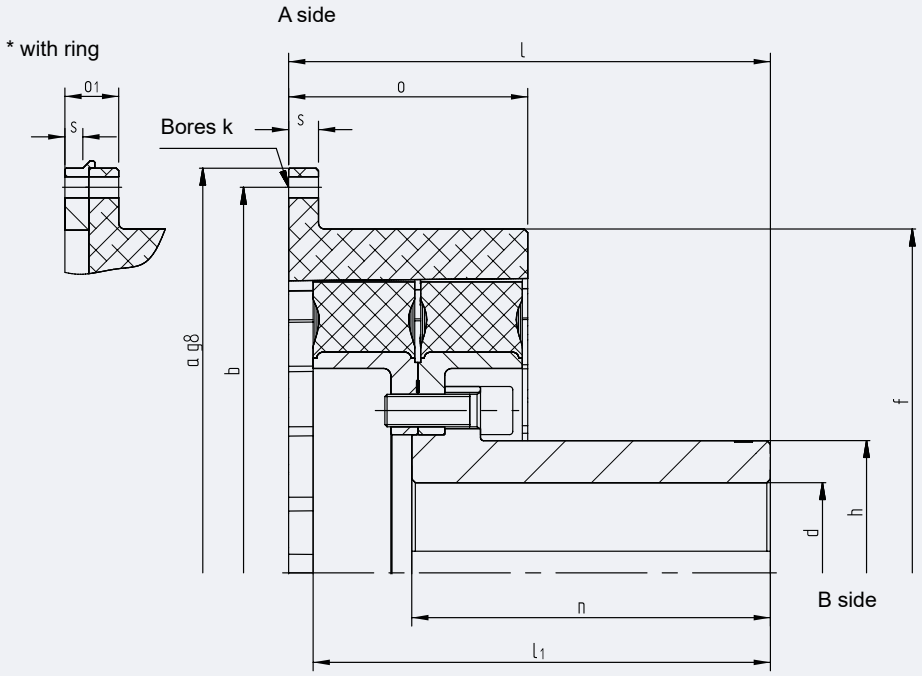


Size		Periflex® VN 433		Periflex® VN 436			Periflex® VN 439			Periflex® VN 544		Periflex® VN 549		Periflex® VN 666		Periflex® VN 726
Tire		VN 43311 VN 43331 VN 43321 VN 43341 VN 43351		VN 43611 VN 43631 VN 43621 VN 43641 VN 43651			VN 43911 VN 43931 VN 43941 VN 43951			VN 54411 VN 54431 VN 54421 VN 54441 VN 54451		VN 54911 VN 54931 VN 54921 VN 54941 VN 54951		VN 66611 VN 66631 VN 66621 VN 66641 VN 66651		VN 72611 VN 72631 VN 76221 VN 76241 VN 72651
SAE Connection		14“	18“	14“	16“	18“	14“	16“	18“	18“	21“	18“	21“	21“	24“	24“
Diameter mm	a	466.7	571.5	466.7	517.5	571.5	466.7	517.5	571.5	571.5	673.1	571.5	673.1	673.1	733.4	733.4
	b	438.2	542.9	438.2	489	542.9	438.2	489	542.9	542.9	641.4	542.9	641.4	641.4	692.2	692.2
	d_{max}	100	100	110	110	110	130	130	130	160	160	150	150	190	190	250
	f	468	468	468	468	468	468	455	455	572	572	572	572	692	692	761
	h	145	145	155	155	155	182	182	182	225	225	220	220	270	270	350
Bore k mm		8x13.5	6x17.5	8x13.5	8x13.5	6x17.5	8x13.5	8x13.5	6x17.5	12x17.5	12x17.5	12x17.5	12x17.5	12x17.5	12x20.0	24x20.0
Lengths mm	$l_{1)}$	209	209	233	233	233	207	227	227	319.5	319.5	307	307	325	325	427
	l_1	199	199	218	218	218	188	208	208	306	306	293.5	293.5	310	310	404
	n	125	125	130	130	130	130	150	150	210	210	210	210	190	190	260
	o	80	80	100	100	100	105	120	120	105	105	105	105	142	142	174
	s	15	20	15	20	20	15	25	25	15	25	20	25	15	31	16
Mass moment of inertia kg m²	J^A side	0.419	0.747	0.522	0.661	0.850	0.569	0.686	0.922	1.235	1.917	1.241	1.923	3.608	4.208	4.865
	J^B side[2)]	0.241	0.241	0.320	0.320	0.320	0.342	0.342	0.342	1.024	1.024	1.162	1.162	2.623	2.623	6.447
Mass kg[2)]		32.2	37.1	38.6	41.0	43.5	39.9	43.9	47.1	78.6	51.2	80.6	88.2	133.2	138.0	218.0

1) Dim. l can be modified by moving the connection ring within specified tolerances
2) at max. bore d

Stromag Periflex® VN Disc Coupling

Stromag Periflex® VP...R Series



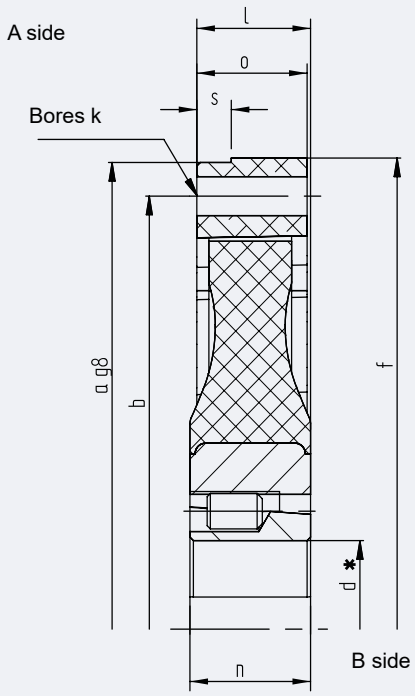
810-00014

Size		Periflex® VP 433	Periflex® VP 436	Periflex® VP 439	Periflex® VP 544	Periflex® VP 549	Periflex® VP 666	Periflex® VP 726
Tire		VN 43311 VN 43331 VN 43321 VN 43341 VN 43351	VN 43611 VN 43631 VN 43621 VN 43641 VN 43651	VN 43911 VN 43931 VN 43941 VN 43951	VN 54411 VN 54431 VN 54421 VN 54441 VN 54451	VN 54911 VN 54931 VN 54921 VN 54941 VN 54951	VN 66611 VN 66631 VN 66621 VN 66641 VN 66651	VN 72611 VN 72631 VN 72621 VN 72641 VN 72651
SAE Connection		18“	18“	18“	21“	21“	24“	-
Diameter mm	a	571.5	571.5	571.5	673.1	673.1	733.4	995
	b	542.9	542.9	542.9	641.4	641.4	692.2	950
	d_{max}	100	110	130	160	150	190	250
	f	468	468	455	572	572	692	803
	h	145	155	182	225	220	270	350
Bore k mm		12x17.5	12x17.5	12x17.5	12x17.5	12x17.5	12x20.0	32x21
Lengths mm	l [1]	344	350	328	336	403	390	514
	l_1	321	335	308	312	382.5	370	–
	n	250	250	250	220	300	250	350
	o	170	190	180	220	220	276	324
	o_1	–	40	–	–	–	–	–
	s	20	15	25	25	25	31	32
Mass moment of inertia kg m²	J^a side	1.186	2.208	1.205	3.268	2.952	7.748	15.850
	J_B side [2]	0.453	0.817	0.651	1.577	2.119	4.519	9.070
Mass kg [2]		66.3	86.4	79.7	126.4	149.0	228.2	379.3

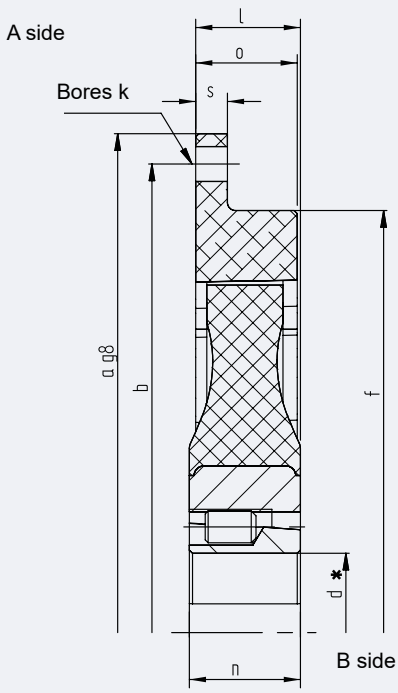
1) Dim. l can be modified by moving the connection ring within specified tolerances
2) at max. bore d

Stromag Periflex® VN Disc Coupling

Stromag Periflex® VN...S Series



810-00010



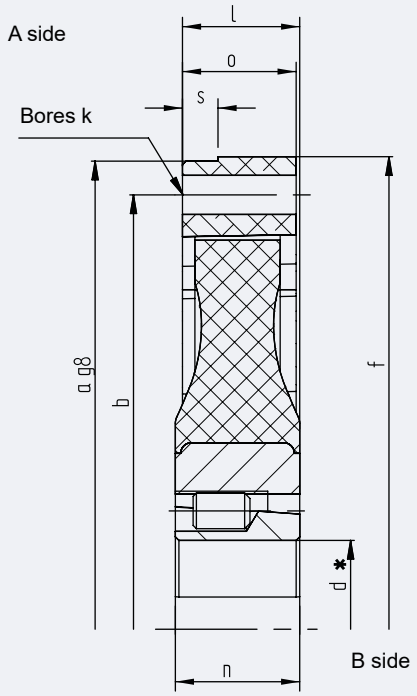
810-00011

Size		Periflex® VN 183			Periflex® VN 230		Periflex® VN 280		Periflex® VN 283		Periflex® VN 350		Periflex® VN 358	
Tire		VN 18311 VN 18331 VN 18321 VN 18341 VN 18351			VN 23011 VN 23031 VN 23021 VN 23041 VN 23051		VN 28011 VN 28031 VN 28021 VN 28041 VN 28051		VN 28311 VN 28331 VN 28321 VN 28341 VN 28351		VN 35011 VN 35031 VN 35021 VN 35041 VN 35051		VN 35811 VN 35831 VN 35821 VN 35841 VN 35851	
SAE Connection		6½"	7½"	8"	8"	10"	10"	11½"	10"	11½"	11½"	14"	11½"	14"
Clamping bush		2012	2012	2012	2012	2012	2517	2517	3020	3020	3020	3020	3525	3525
Diameter mm	a	215.9	241.3	263.5	263.5	314.4	314.4	352.4	314.4	352.4	352.4	466.7	352.4	466.7
	b	200	222.3	244.5	244.5	295.3	295.3	333.4	295.3	333.4	333.4	438.2	333.4	438.2
	d*	50	50	50	50	50	60	60	75	75	75	75	95	95
	f	218	218	218	266	266	316	316	316	316	355	355	355	355
Bore k mm		6x9	8x9	6x11	6x11	8x11	8x11	8x11	8x11	8x11	8x11	8x13.5	8x11	8x13.5
Lengths mm	l [1]	30	30	30	34	34	44	41.5	51	51	56.5	56.5	67	67
	n	31.8	31.8	31.8	31.8	31.8	45	45	51	51	51	51	64	64
	o	25	25	25	32	32	40	40	40	40	55	55	55	55
	s	8	8	8	10	10	10	10	10	10	10	12	10	12
Mass moment of inertia kg m²	J_A side	0.0076	0.0103	0.0134	0.0203	0.0329	0.0483	0.0621	0.0485	0.0625	0.0818	0.2030	0.0842	0.2040
	J_B side	0.0032	0.0032	0.0032	0.0076	0.0076	0.0166	0.0166	0.0235	0.0235	0.0559	0.0559	0.1143	0.1220
Mass kg		2.29	2.59	2.78	3.97	4.97	5.67	6.1	6.6	7.2	11.2	14.2	16.4	20.3

d* max. bore of the taper lock bushing
1) Dim. l can be modified by moving the connection ring within specified tolerances

Stromag Periflex® VN Disc Coupling

Stromag Periflex® VN...S Series



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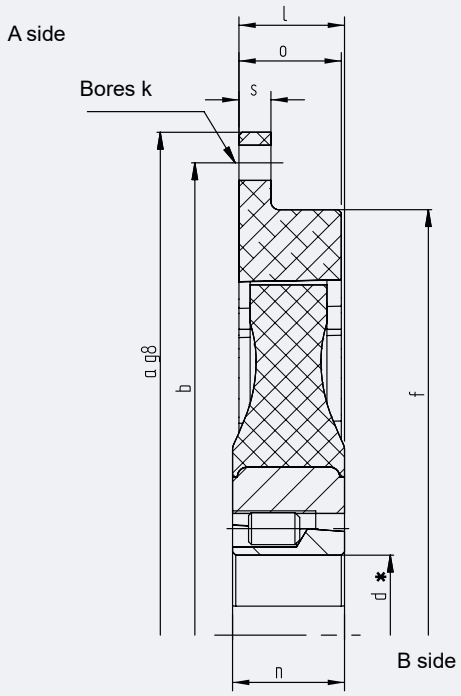


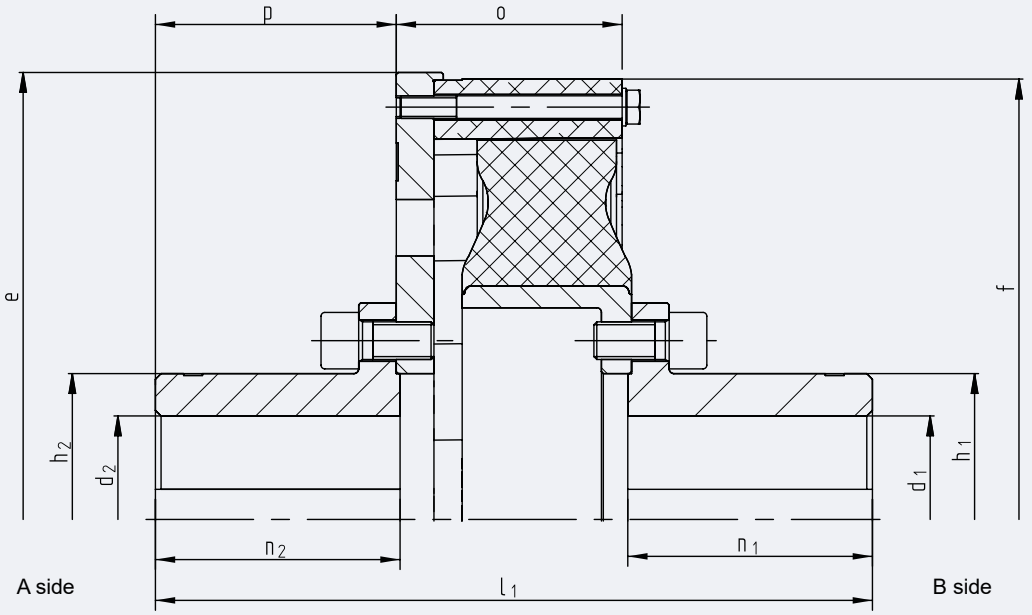
810-00011

Size		Periflex® VN 430		Periflex® VN 433		Periflex® VN 436			Periflex® VN 544	
Tire		VN 43011 VN 43031 VN 43021 VN 43041 VN 43051		VN 43311 VN 43331 VN 43321 VN 43341 VN 43351		VN 43611 VN 43631 VN 43621 VN 43641 VN 43651			VN 54411 VN 54431 VN 54421 VN 54441 VN 54451	
SAE Connection		14“	18“	14“	18“	14“	16“	18“	18“	21“
Clamping bush		3535	3535	4030	4030	4535	4535	4535	5040	5040
Diameter mm	a	466.7	571.5	466.7	571.5	466.7	517.5	571.5	571.5	673.1
	b	436.2	542.9	438.2	542.9	438.2	489	542.9	542.9	641.4
	d*	90	90	110	110	125	125	125	125	125
	f	468	468	468	468	468	468	468	572	572
Bore k mm		8x13.5	6x17.5	8x13.5	6x17.5	8x13.5	8x13.5	6x17.5	12x17.5	12x17.5
Lengths mm	l [1]	87.5	100	78	78	85	85	85	99.5	99.5
	n	89	89	76	76	90	90	90	102	102
	o	54	80	80	80	80	80	80	105	140
	s	15	20	15	20	15	20	20	20	25
Mass moment of inertia kg m²	J_A side	0.2905	0.7205	0.419	0.747	0.442	0.579	0.753	1.235	2.254
	J_B side	0.1425	0.1425	0.264	0.264	0.356	0.356	0.356	1.086	1.086
Mass kg		20.7	27.7	30.6	35.5	36	38.4	40.6	73.0	84.9

d* max. bore of the taper lock bushing
1) Dim. l can be modified by moving the connection ring within specified tolerances

Stromag Periflex® VN Disc Coupling

Stromag Periflex® VN...W Series



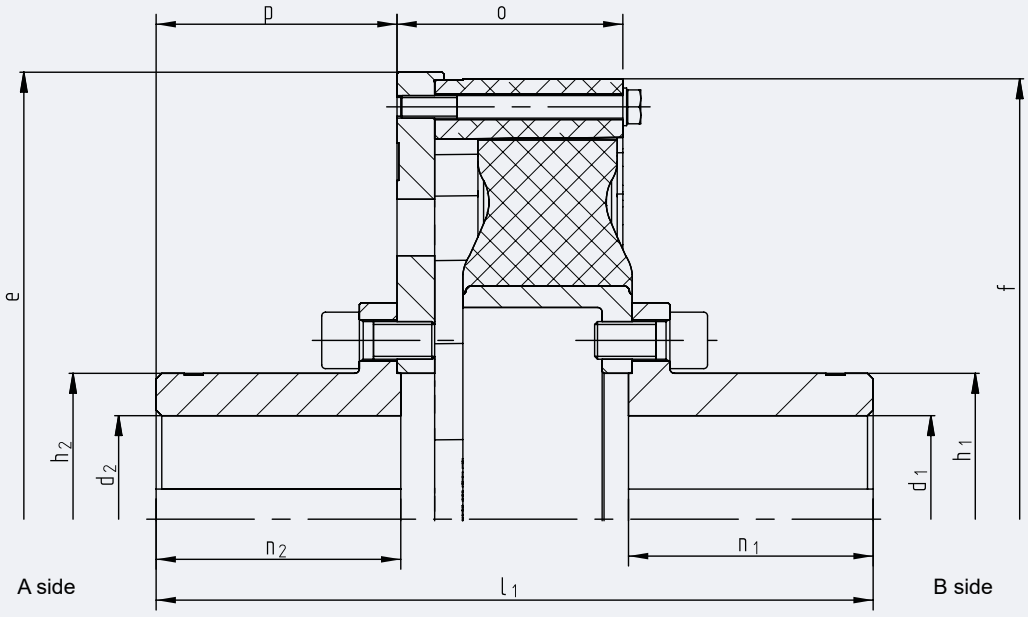
810-00012

Size		Periflex® VN 183	Periflex® VN 230	Periflex® VN 280	Periflex® VN 283	Periflex® VN 350	Periflex® VN 358
Tire		VN 18311 VN 18331 VN 18321 VN 18341 VN 18351	VN 23011 VN 23031 VN 23021 VN 23041 VN 23051	VN 28011 VN 28031 VN 28021 VN 28041 VN 28051	VN 28311 VN 28331 VN 28321 VN 28341 VN 28351	VN 35011 VN 35031 VN 35021 VN 35041 VN 35051	VN 35811 VN 35831 VN 35821 VN 35841 VN 35851
Diameter mm	d_{1max}	43	50	55	65	80	85
	d_{2max}	43	50	55	65	80	85
	e	222	271	322	322	360	360
	f	218	266	316	316	355	355
	h_1	61	70	75	90	112	120
	h_2	61	70	75	90	112	120
Lengths mm	l [1]	174	186	203	280	279	289
	n^1	60	65	70	105	105	105
	n_2	60	65	70	105	105	105
	o	53	58.5	65	75	71	71
	p	58	63	68	103	103	103
Mass moment of inertia kg m²	J_A side [2]	0.0282	0.0716	0.1468	0.1920	0.3190	0.3290
	J_B side [2]	0.0038	0.0080	0.0177	0.0275	0.0530	0.0870
Mass kg [2]		6.6	9.4	15.2	22.1	30.1	33.8

1) Dim. l can be modified by moving the connection ring within specified tolerances
2) at max. bore d_1 and d_2

Stromag Periflex® VN Disc Coupling

Stromag Periflex® VN...W Series



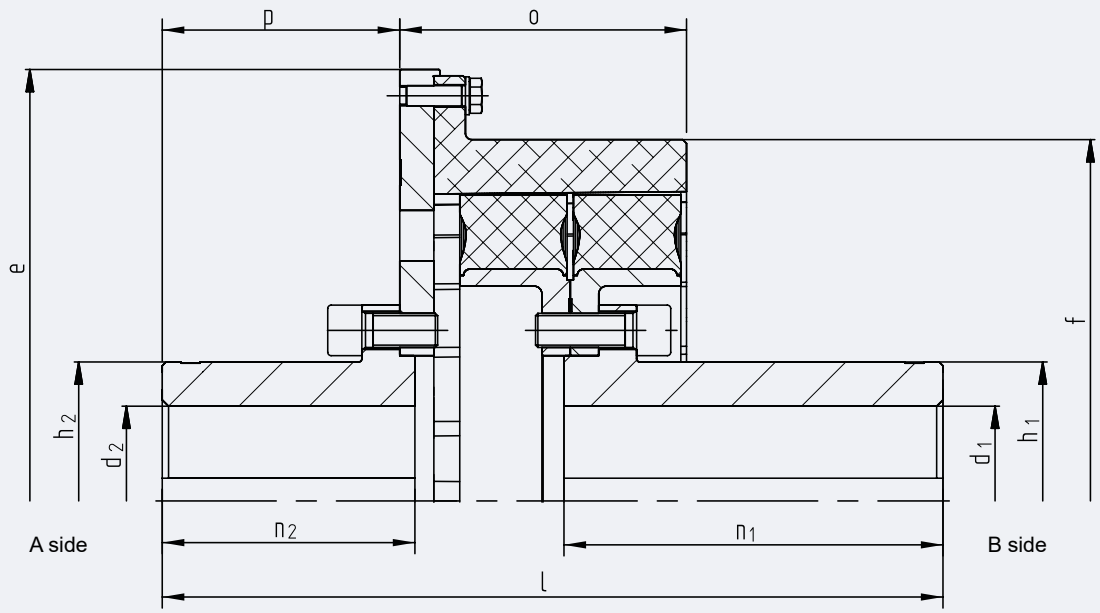
810-00012

Size		Periflex® VN 430	Periflex® VN 433	Periflex® VN 436	Periflex® VN 439	Periflex® VN 544	Periflex® VN 549	Periflex® VN 666	Periflex® VN 726
Tire		VN 43011 VN 43031 VN 43021 VN 43041 VN 43051	VN 43311 VN 43331 VN 43321 VN 43341 VN 43351	VN 43611 VN 43631 VN 43621 VN 43641 VN 43651	VN 43911 VN 43931 VN 43941 VN 43951	VN 54411 VN 54431 VN 54421 VN 54441 VN 54451	VN 54911 VN 54931 VN 54921 VN 54941 VN 54951	VN 66611 VN 66631 VN 66621 VN 66641 VN 66651	VN 72611 VN 72631 VN 72621 VN 72641 VN 72651
Diameter mm	d_{1max} d_{2max} e f h_1 h_2	85 85 475 468 120 120	100 100 475 468 145 145	110 110 475 468 155 155	130 130 475 468 182 182	160 160 584 572 225 225	150 150 584 572 220 220	190 190 683 692 270 270	other dimensions on request
Lengths mm	l [1] n_1 n_2 o p	297 105 105 86 103	352 125 125 100 123	381 130 130 120 128	352 130 130 125 125	548 210 210 140 206	533 210 210 125 206	536 190 190 169 183.5	
Mass moment of inertia kg m²	J_A side [2] J_B side [2]	1.015 0.123	1.271 0.241	1.350 0.318	1.385 0.352	3.648 1.024	3.486 1.200	8.985 2.623	
Mass kg [2]		47.8	69.3	75.7	81.6	158.0	162.6	254.8	

1) Dim. l can be modified by moving the connection ring within specified tolerances
2) at max. bore d_1 and d_2

Stromag Periflex® VN Disc Coupling

Stromag Periflex® VP...W Series



810-00015

Size		Periflex® VP 433	Periflex® VP 436	Periflex® VP 439	Periflex® VP 544	Periflex® VP 549	Periflex® VP 666	Periflex® VP 726
Tire		VN 43311 VN 43331 VN 43321 VN 43341 VN 43351	VN 43611 VN 43631 VN 43621 VN 43641 VN 43651	VN 43911 VN 43931 VN 43941 VN 43951	VN 54411 VN 54431 VN 54421 VN 54441 VN 54451	VN 54911 VN 54931 VN 54921 VN 54941 VN 54951	VN 66611 VN 66631 VN 66621 VN 66641 VN 66651	VN 72611 VN 72631 VN 72621 VN 72641 VN 72651
Diameter mm	d_{1max}	100	110	130	160	150	190	other dimensions on request
	d_{2max}	100	110	130	160	150	190	
	e	475	526	526	683	683	744	
	f	468	468	455	572	572	692	
	h_1	145	155	182	225	220	270	
	h_2	145	155	182	225	220	270	
Lengths mm	l [1]	519	524	503	569	618	659	
	n_1	250	250	250	220	300	250	
	n_2	160	160	160	210	200	250	
	o	190	209	175	247	227	303	
	p	155	155	155	206	188	242	
Mass moment of inertia kg m²	J_A side	1.744	2.819	2.171	8.101	7.916	15.177	
	J_B side [2]	0.612	0.603	0.651	1.577	2.078	4.519	
Mass kg [2]		102.6	128.0	98.0	234.4	255.8	378.3	

1) Dim. l can be modified by moving the connection ring within specified tolerances
2) at max. bore d_1 and d_2

Stromag Periflex® VN Disc Coupling

Characteristics

T_{KN}

The coupling's nominal torque can be permanently transferred over the whole permitted speed range. It must be higher than the system's nominal torque T_N	$T_{KN} \geq T_N$
An application factor of 1.2 is recommended for the simple design of a drive system based exclusively on the nominal torque.	$T_{KN} \geq T_N \bullet 1{,}2$

T_{Kmax}

The coupling´s max torque T_{Kmax} can be endured as a peak load and may not be exceeded by peak torques T_{max1} when the system is operating in normal, nonstationary mode. A system's normal nonstationary modes are unavoidable and occur repeatedly (e.g. starting/stopping, resonance passes, switchovers, accelerations, etc.).	$T_{Kmax} \geq T_{max1}$
Overloading the Stromag Periflex® VN coupling with peak torques T_{max2} in a system's anomalous nonstationary mode shortens the service life and is tolerated in individual cases. A system's anomalous nonstationary modes are avoidable and are not part of the planned operating scheme (e.g. emergency stops, sync failure, short circuits, etc.).	$T_{Kmax} \bullet 1{,}5 \geq T_{max2}$

T_{Kw}

The admissible permanent alternating torque indicates the amplitude of the admissible permanent periodic torque variation. This torque may be superimposed on a base load of T_{KN}.

In this process, the maximum damping power P_{KV} must also be checked.

Ψ

The relative damping is a measure of the ability of the coupling to convert part of the vibration energy into heat.

The Ψ data relate to a coupling torque of 0.8 • T_{KN}, an alternating torque of 0.2 • T_{KN}, and a frequency of 10 Hz on a coupling at operating temperature, with a surface temperature of about 30°C.

P_{kv}

The admissible damping power indicates how much damping (heat) the coupling can permanently absorb resp. dissipate. The sum of the damping power of each vibration order (i.e. ΣP_{vi})) must be less than the damping power of the coupling.

$$P_{vi} = \frac{\pi}{\sqrt{\left(\frac{2\pi}{\Psi}\right)^2 + 1}} \bullet \frac{T_{wi}^{\,2} \bullet f_i}{C_{tdyn}}$$

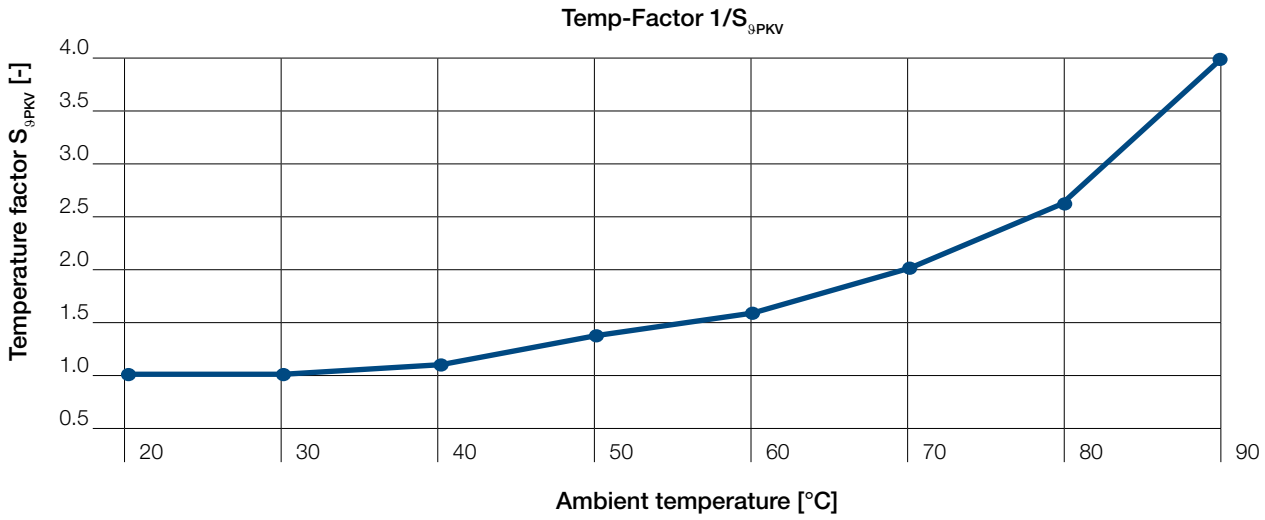
$$P_{KV} \geq \Sigma P_{Vi}$$

The stated value P_{KV60} describes the damping power which can be absorbed over the period of 1 hour. To determine the damping power which can be permanently absorbed ($P_{KV\infty}$), the value P_{KV60} has to be multiplied by the factor 0.5. With an ambient temperature T_U higher than 30ºC, the admissible damping power must be reduced by the temperature factor $S_{\vartheta PKV}$.	$P_{KV}(T_U) = \frac{P_{KV}}{S_{\vartheta PKV}}$

Stromag Periflex® VN Disc Coupling

Characteristics

Temperature factors $S_{\vartheta PKV}$
Temperature factors shall take into consideration the reduction of the physical characteristics of rubber-flexible material caused by heating. The coupling temperature is determined by the ambient temperature plus an internal heating caused by internal material friction in the rubber volume, resulting from alternating torques and alternating loads due to shaft offsets. With higher ambient temperatures the coupling characteristic value P_{KV} must be reduced through the corresponding temperature factor $S_{\vartheta PKV}$.



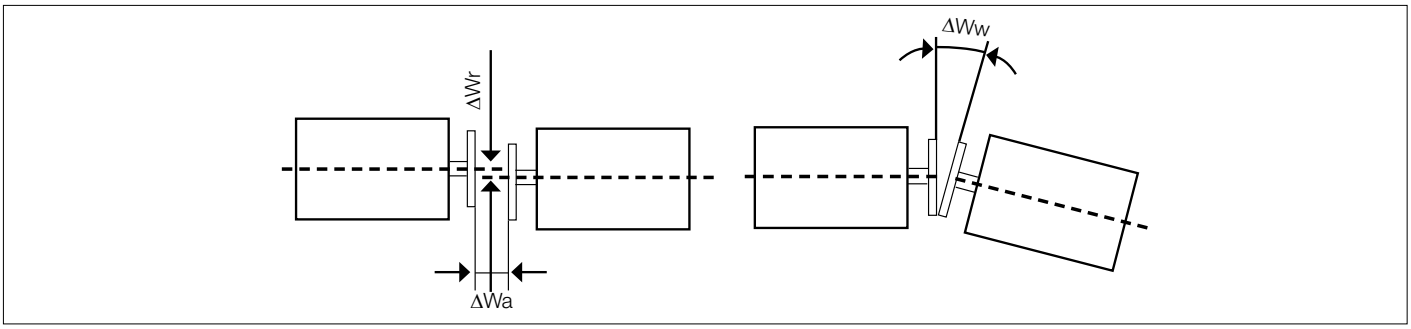
ΔK_a	
Maximum axial displacement of the coupling. The shafts' axial displacement ΔW_a must be less than ΔK_a. The axial displacement for Stromag Periflex® VN couplings depends on the installed connection ring. The disc tire must always lie over its full width in the connection ring.	$\Delta K_a \geq \Delta W_a$

ΔK_r	
Maximum radial displacement of the coupling. The shafts' radial displacement ΔW_r must be less than ΔK_r.	$\Delta K_r \geq \Delta W_r$

ΔK_w	
Maximum angular displacement of the coupling. The shafts' angular displacement ΔW_W must be less than ΔK_W. A Δ_{KW} value of 0.5° is permitted for Periflex® VN couplings. This value, however, may be utilised to the full only when there are no other options for shaft displacement.	$\Delta K_w \geq \Delta W_w$

Stromag Periflex® VN Disc Coupling

Characteristics



C_a

The axial spring stiffness represents the ratio of axial reaction force to axial displacement.
Stromag Periflex® VN couplings do not generate axial forces when the disc tire lies over its full width in the connection ring.

$$C_a = 0$$

C_r

The radial stiffness represents the ratio of radial reaction force to radial displacement.
The specified values apply to the coupling at operating temperature, with a surface temperature of about 30°C.

C_{Tdyn}

The dynamic torsional spring stiffness represents the ratio of torque amplitude to torque angle during an oscillation.

The torque amplitude is superimposed on an initial load (coupling torque). The Stromag Periflex® VN coupling's C_{Tdyn} value remains constant over the coupling torque (linear characteristic curve), but changes with the amplitude, frequency, and temperature of the flexible element.

The specified nominal values for C_{Tdyn} are based on a coupling torque of 0.8 • T_{KN}, an alternating torque of 0.2 • T_{KN}, and a frequency of 10 Hz on a coupling at operating temperature, with a surface temperature of about 30°C.

$C_{Tdyn\ warm}$ takes into account that high power dissipation causes the coupling to heat up.	$C_{Tdyn\ warm} = 0.7 \bullet C_{Tdyn}$
$C_{Tdyn\ A}$ takes into account the effects of a small alternating torque amplitude.	$C_{Tdyn\ A} = 1.35 \bullet C_{Tdyn}$

Calculations of torsional vibrations in the system are recommended to include $C_{Tdyn\ warm}$ (0.7), und $C_{Tdyn\ A}$ (1.35)

Stromag Periflex® VN Disc Coupling

Coupling Design, question sheet

MAIN ENGINE		
Engine type (electric, combustion engine, etc.)		
Engine full designation		
Engine installation (rigid or flexible)		
Engine housing (SAE)		
Flywheel connection		Inch
Engine mass moment of inertia		kgm^2
Flywheel mass moment of inertia (for cumbustion engine)		kgm^2
Nominal power		kW
Nominal speed		rpm
Speed range (if application operates within a speed range)		rpm
Maximum torque (breakdown torque)		Nm
GEAR		
Gear ratio		
Moment of inertia		kgm^2
CARDAN SHAFT		
Type of cardan shaft deflection ("z" or "w")		
Cardan shaft type (manufacturer, size)		
Deflection angle		°
Moment of inertia		kgm^2
Length of the cadan shaft		mm
DRIVEN SIDE		
Type (generator, fan, compressor, fixed or variable pitch propeller)		
Main or auxiliary drive		
Type of construction (free-standing or flange-mounted?)		
Free-standing type (rigid or flexible installation?)		
Number of blades (in case of propeller application)		
Moment of inertia of driven side		kgm^2
Shaft length (l) and diamter (d)		mm
COUPLING		
Location in the drive train (enclose schematic diagram)		
Bore dimension for coupling hub		mm
Ambient temperature near the coupling		°C, °K
Maximum permissible coupling length		mm
Classification society		
ATEX certification		
Ice class		

Stromag Periflex® VN Disc Coupling

Use in potentially explosive environments, question sheet

Applications		○	Group II (above ground)
Potentially explosive atmosphere of air and		○	gas
		○	dust
Zone (Category)	gas	○	Zone 1 (Category 2G)
		○	Zone 2 (Category 3G)
	dust	○	Zone 22 not electrically conducting (Category 3D)
Temperature category in atmosphere with gas	gas	○	T1
		○	T2
		○	T3
		○	T4
Max surface temperature	dust	○	125 °C
		○	< 120 °C
		○	-20 °C to + 40 °C
Ambient temperature		○	other ambient temperatures only with certain restrictions

Notes

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