



ARCUSAFLEX®

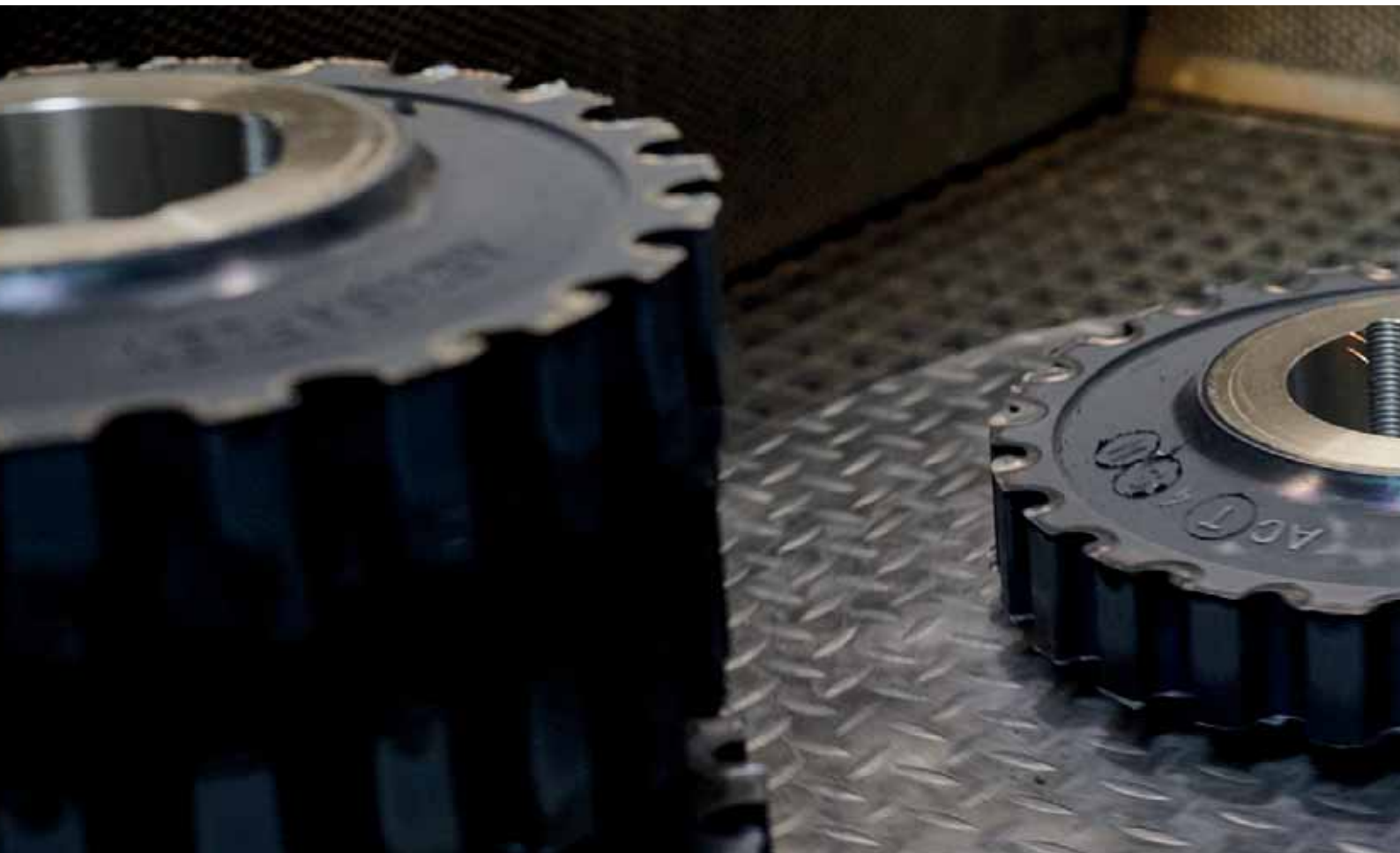
Highly flexible rubber disc coupling for
internal combustion engine drives

www.reich-kupplungen.com



SIMPLY **POWERFUL.**





D2C – Designed to Customer

The guiding principle of Designed to Customer is the recipe for success behind REICH. In addition to the catalog products, we supply our customers with couplings developed to their specific requirements.

The designs are mainly based on modular components to provide effective and efficient customer solutions.

The special nature of our close cooperation with our partners ranges from; consulting, development, design, manufacture and integration to existing environments, to customer-specific production, logistics concepts and after-sales service - worldwide.

This customer-oriented concept applies to both standard products and production in small batch sizes.

The company policy at REICH embraces, first and foremost, principles such as customer satisfaction, flexibility, quality, prompt delivery and adaptability to the requirements of our customers.

REICH provides you with not only a coupling, but a solution:

Designed to Customer – SIMPLY **POWERFUL**.

D2C
Designed to Customer



ARCUSAFLEX®

Contents

Coupling Information

- 04** General Technical Description
- 05** Advantages
- 06** Standard Types
- 08** General Technical Data
- 12** Materials
- 13** Selection of the Coupling Size
- 42** Permissible Shaft Displacement
- 43** Data Required for Coupling Size Selection

Dimension tables

- 14** Type AC-T...F2 - flange coupling
- 18** Type AC...F2 - flange coupling
- 22** Type AC...F2K - flange coupling
- 26** Type AC-T...T and AC...TK - shaft coupling
- 30** Type AC...TK and AC...D TK - shaft coupling
- 34** Type AC...D F2 - flange coupling
- 38** Type AC...D F2K - flange coupling

ARCUSAFLEX®

General Technical Description



ARCUSAFLEX®

Highly flexible flange coupling with axial plug-in facility

The ARCUSAFLEX®-Coupling (Abbreviation: AC) is a highly torsionally flexible flange coupling with an axial plug-in facility, providing a torsionally soft connection between an internal combustion engine and a driven machine. The highly flexible torque transmission characteristic is achieved by a disc-shaped rubber element that is subjected to a torsional load and enables both the absorption of high torsional vibrations and the compensation of major misalignments. Various vulcanisates are available to achieve optimum adaptation to the given application conditions: A natural/synthetic caoutchouc mixture is the standard version for application temperatures of up to 176 °F (80 °C), more heat resistant mixtures for up to 212 °F/248 °F (100 °C/120 °C) and a silicone mixture for higher application temperatures up to 266 °F (130 °C).

The inside diameter of the rubber element is vulcanized directly to a hub body or bolt-on sleeve. The toothed profile on the circumference of the element provides a virtually backlash-free, positive plug-in connection to the coupling flange when in service.

The ARCUSAFLEX® flange coupling series covers a torque range of 1859 – 637254 lb-in (210 Nm – 72 000 Nm).

Element versions of different dynamic torsional stiffnesses are available for optimizing the torsional vibration range. The flange connection dimensions of ARCUSAFLEX® couplings comply predominantly with the SAE J 620 and DIN 6281 standards. Other flange dimensions or overall lengths can be provided on request.

Shaft-to-shaft connections when required can be met by ARCUSAFLEX® shaft couplings which consist of an ARCUSAFLEX® flange coupling of the standard type equipped with a second hub. Type approvals from a number of leading classification societies have been obtained. If required, couplings complete with a fail-safe device can also be supplied.

ARCUSAFLEX® couplings comply with ATEX explosion protection. They are certified according to directive 2014/34/EU and may be used in hazardous locations (categories M2, 2 + 3). ATEX documentation to supplement the operating instructions is available on request.




ARCUSAFLEX®

Nominal torques of 1859 – 637254 lb-in (210 Nm – 72 000 Nm)

ARCUSAFLEX®

Advantages

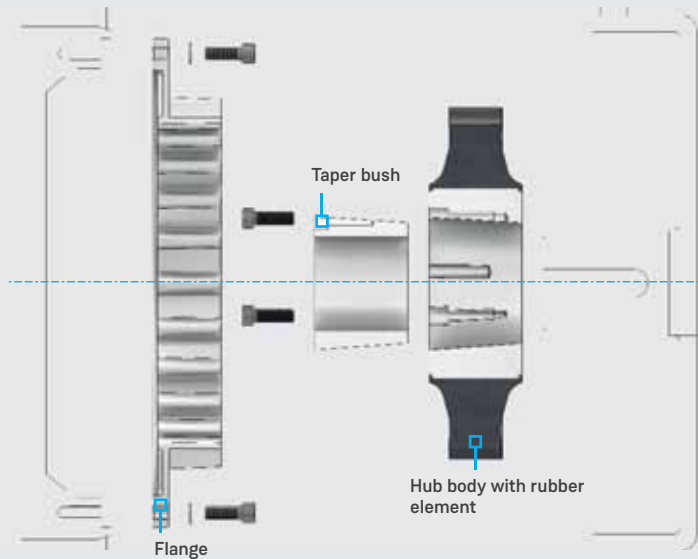
The most important features and advantages of the highly torsionally flexible ARCUSAFLEX® coupling are:

- Very high torsional elasticity with a linear torsional deflection characteristic
- High torsional vibration and shock load damping capability
- Backlash-free torque transmission
- Ease of assembly thanks to the plug-in type design with ample axial float
- Compensation of major misalignments
- Torque limiting, protecting the drive from overload
- ATEX 

ARCUSAFLEX®

Standard Types

Type AC-T...F2



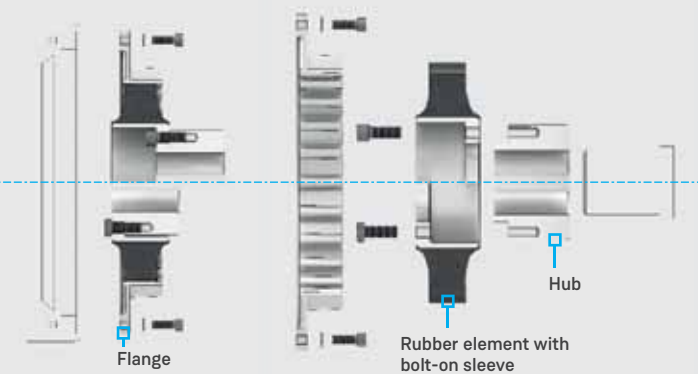
Flange coupling with taper bush

The ARCUSAFLEX® flange coupling type AC-T...F2 is equipped with a taper bush for shaft mounting. The rubber element is vulcanized directly to the hub body of the taper bush. After completion of the assembly, a shrink-fit-like connection, free from backlash is established between the coupling hub with rubber element and the shaft.

Thanks to the use of commercially available taper bushes with a number of different bore dimensions, the need for finishing the bore and keyway of the coupling hub is omitted for the ARCUSAFLEX® coupling type AC-T...F2. The torque, which can be transmitted, depends on the particular taper bush.

+ Advantage: Ease of assembly and disassembly with no need for special tools!

Type AC...F2

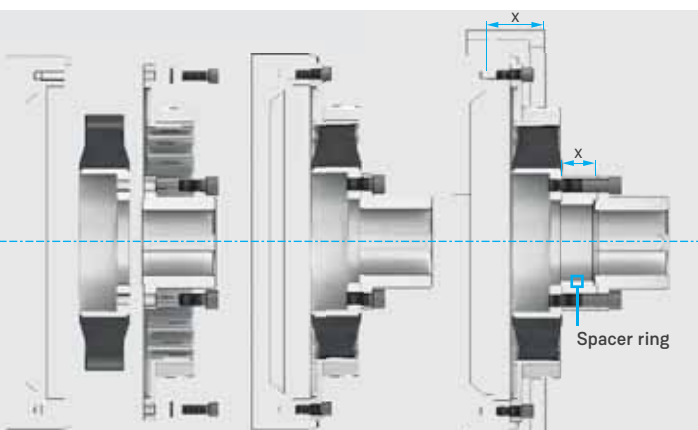


Flange coupling with hub

The ARCUSAFLEX® flange coupling type AC...F2 has the rubber element vulcanized to a bolt-on sleeve which in turn is bolted to a hub or similar component.

+ Advantage: Depending on the arrangement of the rubber element, two different mounting lengths can be achieved using one and the same coupling hub.

Type AC...F2K

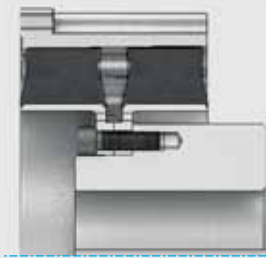


Flange coupling for radial element exchange

Type AC...F2K allows the detached element to be replaced without moving the coupled machines, provided that the shaft of the driven machine does not protrude from the coupling hub. Where the flywheel or flywheel housing protrudes excessively from the element, a spacer ring corresponding to oversize X is required for radial removal.

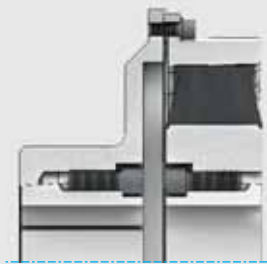
+ Advantage: Changing element without having to move the coupled machines possible!

Type AC...D F2



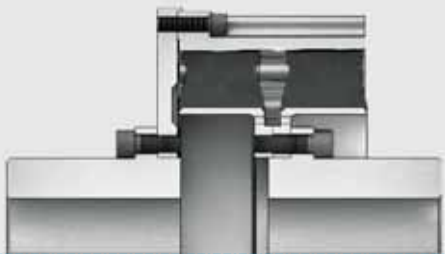
Flange coupling
with hub and two coupling
elements operating in
tandem.

Type AC-T...T



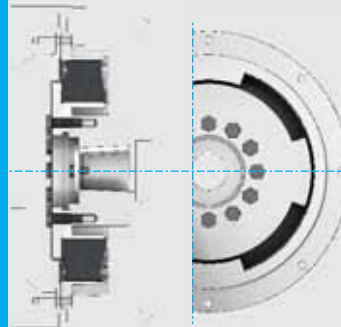
Shaft coupling
Coupling element and
separable flange hub
with taper bush.

Type AC...D TK



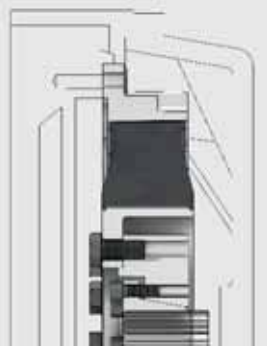
Shaft coupling
with two hubs and two
coupling elements
operating in tandem.

Type AC...F2 DS



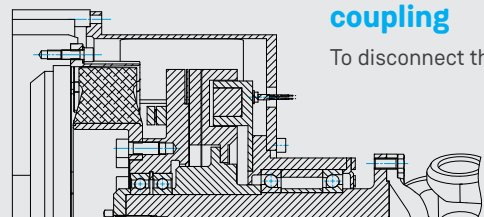
Flange coupling
with fail-safe device
(get-you-home-device),
to be mounted between
an internal combustion
engine and a marine
gearbox.

Type AC...F2
with splined taper bush



**Flange coupling
with splined
taper bush**
to be mounted between an
internal combustion engine
and a pump drive.

Type AC...F2
with electromagnetic coupling



**Flange coupling
with external
flange housing
and integrated
electromagnetic
coupling**
To disconnect the drive.

ARCUSAFLEX®

General Technical Data

Standard version with 1 element - natural/synthetic caoutchouc

Coupling size	Element version	Nominal torque		Maximum torque		Fatigue torque ^{*)}		Dynamic torsional stiffness		Flange size SAE J 620	Max. speed n_{max} [rpm]
		T_{KN}		T_{Kmax}		T_{KW} (10 Hz)		$C_{T dyn}$ (x10 ³)			
		[Nm]	[lb-in]	[Nm]	[lb-in]	[Nm]	[lb-in]	[Nm/rad]	[lb-in/rad]		
AC 1.5	WN	210	1859	450	3983	105	929	1.6	13.7	6.5 - 8 10	4200 3600
	NN	250	2213	625	5532	125	1106	2.6	23.0		
	SN	300	2655	750	6638	150	1328	4.8	42.5		
	UN	340	3009	850	7523	170	1505	9.2	81.4		
AC 2.3	WN	330	2921	750	6638	165	1460	1.6	14.2	6.5 - 8 10	4200 3600
	NN	360	3186	900	7966	180	1593	2.5	22.1		
	SN	400	3540	1000	8851	200	1770	4.2	37.2		
	UN	450	3983	1000	8851	225	1991	9.2	81.4		
AC 2.6 / 2.7 ¹⁾	WN	500	4425	1250	11063	250	2213	2.4	21.2	8 10 11.5	4200 3600 3500
	NN	600	5310	1800	15931	300	2655	3.6	31.9		
	SN	700	6196	2100	18587	350	3098	6.1	54.0		
	UN	800	7081	2100	18587	400	3540	13.5	119.5		
AC 3	WN	800	7081	2000	17701	400	3540	3.6	31.9	10 11.5	3600 3500
	NN	900	7966	2700	23897	450	3983	5.0	44.3		
	SN	1000	8851	3000	26552	500	4425	7.5	66.4		
	UN	1150	10178	3000	26552	575	5089	10.5	92.9		
AC 4 / 4.1	WN	1200	10621	3000	26552	600	5310	8.0	70.8	10 11.5 14	3600 3500 3000
	NN	1350	11949	3600	31863	650	5753	10.0	88.5		
	SN	1550	13719	4200	37173	750	6638	13.5	119.5		
	UN	1800	15931	4200	37173	900	7966	19.0	168.2		
AC 4.9	WN	1400	12391	3500	30978	700	6196	10.0	88.5	11.5 14	3200 3000
	NN	1800	15931	4500	39828	900	7966	15.0	132.8		
	SN	2300	20357	5500	48679	1150	10178	24.0	212.4		
	UN	2700	23897	5500	48679	1350	11949	34.0	300.9		
AC 5 / 5.1	WN	1800	15931	4500	39828	900	7966	8.5	75.2	11.5 14	3200 3000
	NN	2000	17701	5400	47794	1000	8851	13.0	115.1		
	SN	2500	22127	7500	66381	1250	11063	22.0	194.7		
	UN	2900	25667	7500	66381	1450	12834	31.0	274.4		
AC 6 / 6.1	WN	3100	27437	7700	68151	1500	13276	16.0	141.6	14 18	3000 2300
	NN	3450	30535	10000	88507	1700	15046	30.0	265.5		
	SN	4200	37173	12600	111519	2100	18587	45.0	398.3		
	UN	4800	42484	12600	111519	2400	21242	63.0	557.6		
AC 6.5	WN	4000	35403	10000	88507	2000	17701	25.0	221.3	14	3000
	NN	4500	39828	13500	119485	2250	19914	40.0	354.0		
	SN	5500	48679	16500	146037	2750	24340	72.0	637.3		
	UN	6200	54875	16500	146037	3100	27437	100.0	885.1		
AC 7	WN	4600	40713	10000	88507	2300	20357	35.0	309.8	14 18	2600 2300
	NN	5200	46024	15600	138072	2600	23012	56.0	495.6		
	SN	6300	55760	18900	167279	3100	27437	100.0	885.1		
	UN	7400	65496	18900	167279	3700	32748	140.0	1239.1		
AC 7.5	WN	5600	49564	12500	110633	2800	24782	35.0	309.8	14	2600 2300
	NN	6400	56644	19200	169933	3200	28330	56.0	495.6		
	SN	7600	67265	22800	201797	3800	33632	100.0	885.1		
	UN	8800	77886	22800	201797	4400	38943	145.0	1283.4		



Coupling size	Element version	Nominal torque		Maximum torque		Fatigue torque ¹⁾		Dynamic torsional stiffness		Flange size SAE J 620	Max. speed n_{max} [rpm]
		T_{KN}		T_{Kmax}		$T_{KW} (10\text{ Hz})$		$C_{T\text{ dyn}} (\times 10^3)$			
		[Nm]	[lb-in]	[Nm]	[lb-in]	[Nm]	[lb-in]	[Nm/rad]	[lb-in/rad]		
AC 8	WN	6200	54875	14000	123910	3100	27437	38.0	336.3	18	2300
	NN	7000	61955	21000	185866	3500	30978	75.0	663.8		
	SN	7800	69036	23400	207107	3900	34518	110.0	973.6	21	2000
	UN	9200	81427	23400	207107	4600	40713	160.0	1416.1		
AC 9	WN	8000	70806	18000	159313	4200	37173	55.0	486.8	18	2300
	NN	9000	79657	27000	238970	4800	42484	100.0	885.1		
	SN	10000	88507	30000	265522	5500	48679	190.0	1681.6		
	UN	12000	106209	30000	265522	6000	53104	300.0	2655.2		
AC 10.2	WN	11000	97358	28000	247821	5500	48679	75.0	663.8	18	2300
	NN	12500	110634	37000	327478	6250	55317	120.0	1062.1		
	SN	14000	123910	42000	371731	7000	61955	210.0	1858.7	21	2000
	UN	16000	141612	42000	371731	8000	70806	320.0	2832.2		
AC 11	WN	16000	141612	40000	354030	8000	70806	150.0	1327.6	21	2000
	NN	18000	159313	54000	477940	9000	79657	250.0	2212.7		
	SN	20000	177015	60000	531045	10000	88507	450.0	3982.8	24	1800
	UN	23000	203567	60000	531045	11500	101784	650.0	5753.0		
AC 11.7	WN	19200	169939	48000	424848	9600	84970	180.0	1593.2	21	2000
	NN	21600	191182	65000	575315	11000	97361	300.0	2655.3		
	SN	24000	212424	72000	637272	12000	106212	540.0	4779.5	24	1800
	UN	27000	238977	72000	637272	13000	115063	785.0	6948.0		
AC 11.9	WN	24000	212417	60000	531043	12000	106209	250.0	2212.7	21	2000
	NN	26000	230119	78000	690356	13000	115059	525.0	4646.6		
	SN	28000	247820	84000	743460	14000	123910	1200.0	10620.8	24	1800
	UN	31500	278798	90000	796564	15000	132760	1750.0	15488.6		
AC 12	WN	25000	221269	75000	663806	12500	110634	250.0	2212.7	similar to DIN 6288	1500
	NN	28000	247821	84000	743463	14000	123910	400.0	4646.6		
	SN	31500	278798	94000	831970	15000	132761	700.0	10620.8		
	UN	36000	318627	94000	831970	18000	159313	1000.0	15488.6		

i 1) dynamic torsional stiffness AC 2.7 on request

Conversion table

1 [°F]	9/5 °C + 32	1 [°C]	5/9 (°F - 32)
1 [lb] (avdp)	0.454 [kg]	1 [kg]	2.205 [lb] (avdp)
1 [in]	25.4 [mm]	1 [mm]	0.039 [in]
1 [lb-in]	0.113 [Nm]	1 [Nm]	8.851 [lb-in]
1 [lb-in/rad]	0.113 [Nm/rad]	1 [Nm/rad]	8.851 [lb-in/rad]
1 [lb-in ²]	0.000292 [kgm ²]	1 [kgm ²]	3417.17 [lb-in ²]
1 psi	0.069 bar	1 bar	14.5 psi

Coupling Information

Standard version with 2 elements in natural/synthetic caoutchouc

Coupling size	Element version	Nominal torque		Maximum torque		Fatigue torque*		Dynamic torsional stiffness		Flange size to SAE J 620	Max. speed n_{max} [rpm]
		T_{KN}		T_{Kmax}		$T_{KW} (10 \text{ Hz})$		$C_T \text{ dyn (x10}^3\text{)}$			
		[Nm]	[lb-in]	[Nm]	[lb-in]	[Nm]	[lb-in]	[Nm/rad]	[lb-in/rad]		
AC 8D	WN	12400	109749	28000	247821	6200	54875	76.0	672.7	18	2300
	NN	14000	123910	42000	371731	7000	61955	150.0	1327.6		
	SN	15600	138072	46800	414215	7800	69036	220.0	1947.2	21	2000
	UN	18400	162854	46800	414215	9200	81427	320.0	2832.2		
AC 9D	WN	16000	141612	36000	318627	8400	74346	110.0	973.6	18	2000
	NN	18000	159313	54000	477940	9600	84967	200.0	1770.1		
	SN	20000	177015	60000	531045	11000	97358	380.0	3363.3	24	1800
	UN	24000	212418	60000	531045	12000	106209	600.0	5310.4		
AC 10.2D	WN	22000	194716	56000	495642	11000	97358	150.0	1327.6	21	2000
	NN	25000	221269	74000	654955	12500	110634	240.0	2124.2		
	SN	28000	247821	84000	743463	14000	123910	420.0	3717.3	24	1800
	UN	32000	283224	84000	743463	16000	141612	640.0	5664.5		
AC 11D	WN	32000	283224	80000	708060	16000	141612	300.0	2655.2	21	2000
	NN	36000	318627	108000	955881	18000	159313	500.0	4425.4		
	SN	40000	354030	120000	1062089	20000	177015	900.0	7965.7	24	1800
	UN	46000	407134	120000	1062089	23000	203567	1300.0	11506.0		
AC 11.7D	WN	38400	339878	96000	849696	19200	169940	360.0	3186.4	21	2000
	NN	43200	382363	130000	1150630	22000	194722	600.0	5310.6		
	SN	48000	424848	144000	1274544	24000	212424	1080.0	9559.0	24	1800
	UN	54000	477954	144000	1274544	26000	230126	1570.0	13896.0		
AC 12D	WN	50000	442537	150000	1327612	25000	221269	500.0	4425.4	similar to DIN 6288	1300
	NN	56000	495642	168000	1486925	28000	247821	800.0	7080.6		
	SN	63000	557597	189000	1672791	30000	265522	1400.0	12391.0		
	UN	72000	637254	189000	1672791	36000	318627	2000.0	17701.5		

Shore hardness ShA, Resonance factor V_R and relative damping Ψ

Element version	Sh A	V_R	Ψ
WN	55	7.85	0.80
NN	65	5.46	1.15
SN	75	5.03	1.25
UN	85	4.83	1.30

i Due to the physical properties of the rubber material, the measurable rubber hardness is subject to a variation that is defined as $\pm 5^\circ$ Shore A according to DIN 53505. However, this variation is minimized by our own rubber production.

Technical Note

The technical data applies only to the complete coupling or the corresponding coupling elements. It is the customer's/user's responsibility to ensure there are no inadmissible loads acting on any of the components. In particular, existing connections, e.g. bolted connections, must be checked with regard to the torques to be transmitted. If necessary, further measures, such as additional reinforcement with pins, may be necessary. It is the customer's/user's responsibility to make sure the dimensioning of the shaft and keyed or other connection, e.g. shrinking or clamping connection, is correct.

All components that can rust are protected against corrosion as standard.

REICH have an extensive range of couplings and coupling systems to cover nearly every drive configuration. Customized solutions can be developed and manufactured even in small batches or as prototypes. In addition calculation programs are available for all necessary dimensioning.

Silicone version

Coupling size	Element version	Nominal torque		Maximum torque		Maximum torque		Fatigue torque		Dynamic torsional stiffness									
		T_{KN}		T_{Kmax1}		T_{Kmax2}		T_{KW} (10 Hz)		$C_T \text{ dyn}(x10^3)$									
		[Nm]	[lb-in]	[Nm]	[lb-in]	[Nm]	[lb-in]	[Nm]	[lb-in]	0.10 T_{KN}		0.25 T_{KN}		0.50 T_{KN}		0.75 T_{KN}		1.00 T_{KN}	
										[Nm/rad]	[lb-in/rad]	[Nm/rad]	[lb-in/rad]	[Nm/rad]	[lb-in/rad]	[Nm/rad]	[lb-in/rad]	[Nm/rad]	[lb-in/rad]
AC 2.3	WX	300	2655	450	3983	600	5310	100	885	0.75	6.64	1.0	8.9	1.2	10.6	1.4	12.4	2.0	17.7
AC 2.6	WX	450	3983	675	5974	900	7966	185	1637	1.25	11.06	1.7	15.0	2.1	18.6	2.5	22.1	3.7	32.7
AC 3	WX	750	6638	1125	9957	1500	13276	260	2301	2.4	21.2	3.0	26.6	3.7	32.7	4.4	38.9	6.5	57.5
AC 4 / 4.1	WX	1150	10178	1725	15268	2300	20357	430	3806	5.2	46.0	6.5	57.5	8.3	73.5	9.7	85.9	14.4	127.5
AC 4.9	WX	1600	14161	2400	21242	3200	28322	600	5310	5.5	48.7	6.8	60.1	8.6	76.1	10.0	88.5	15.0	132.8
AC 5 / 5.1	WX	1800	15931	2700	23897	3600	31863	700	6196	5.6	49.6	7.0	62.0	9.0	79.7	10.5	92.9	15.5	137.2
AC 6 / 6.1	WX	3000	26552	4500	39828	6000	53104	1150	10178	13.0	115.1	16.0	141.6	20.0	177.0	24.0	212.4	36.0	318.6
AC 6.5	WX	3800	33633	5700	50449	7500	66381	1450	12834	25.0	221.2	30.0	265.5	34.0	300.9	45.0	398.3	59.0	522.2
AC 7	WX	4500	39828	6750	59743	9000	79657	1800	15931	36.0	318.6	44.0	389.4	48.0	424.8	64.0	566.5	84.0	743.5
AC 7.5	WX	5800	51334	8700	77001	11600	102669	2200	19472	48.0	424.8	60.0	531.0	66.0	584.1	88.0	778.9	115.0	1017.8
AC 8	WX	6100	53990	9150	80984	12200	107979	2200	19472	38.0	336.3	48.0	424.8	56.0	495.7	68.0	601.9	96.0	849.7
AC 8D	WX	12200	107979	18300	161969	24400	215958	4400	38943	76.0	672.7	96.0	849.7	112.0	991.3	136.0	1203.7	192.0	1699.4
AC 9	WX	7500	66381	11250	99571	15000	132761	2950	26110	54.0	478.0	68.0	601.9	82.0	725.8	108.0	955.9	148.0	1309.9
AC 9D	WX	15000	132761	22500	199142	30000	265522	5900	52219	108.0	955.9	136.0	1203.7	164.0	1451.6	216.0	1911.8	296.0	2619.9
AC 10.2	WX	10000	88507	15000	132761	20000	177015	3700	32748	85.0	752.3	104.0	920.5	128.0	1132.9	176.0	1557.8	240.0	2124.2
AC 10.2D	WX	20000	177015	30000	265522	40000	354030	7400	65496	170.0	1504.7	208.0	1841.0	256.0	2265.9	352.0	3115.6	480.0	4248.5
AC 11	WX	15000	132761	22500	199142	30000	265522	5600	49564	135.0	1194.9	179.0	1584.3	215.0	1903.0	305.0	2699.6	410.0	3628.9
AC 11D	WX	30000	265522	45000	398284	60000	531045	11200	99128	270.0	2389.8	340.0	3009.3	430.0	3805.9	610.0	5399.1	820.0	7257.8
AC 12	WX	22500	199142	33750	298713	45000	398284	8400	74364	380.0	3363.3	445.0	3938.6	555.0	4912.2	655.0	5797.2	870.0	7700.1
AC 12D	WX	45000	398284	67500	597425	90000	796567	16800	148692	760.0	6726.6	890.0	7877.2	1100.0	9735.8	1330.0	11707.1	1740.0	15400.3

Additional information for selection of couplings with silicone elements

$$1,6 - 2,0 T_{AN} \leq T_{KN}$$

T_{AN} = nominal torque of the drive

T_{Kmax1} is the highest permissible maximum torque of the application taking into account for example starting, stopping with resonance crossing.

T_{Kmax2} is the highest permissible peak torque, which can occur with a limited number of application related conditions, e.g. short-circuit, synchronization failure, emergency stop.

Shore hardness Sh A, resonance factor V_R and relative damping Ψ

Element version	Sh A	V_R	Ψ
WX	60	5.46	1.15

i Due to the physical properties of the rubber material, the measurable rubber hardness is subject to a variation that is defined as $\pm 5^\circ$ Shore A according to DIN 53505. However, this variation is minimized by our own rubber production.

ARCUSAFLEX®

Materials



Coupling flanges:

Coupling size AC 2.3 - AC 10.2D, AC 11D and AC 11.9 out of high-grade cast aluminum
Coupling size AC 7,5 and AC 11 - AC 12D out of cast iron with spheroidal graphite



With type AC with hub:

Bolt-on sleeve of cast iron with spheroidal graphite/hub of steel (min. yield strength 360 MPa)



With type AC-T:

Hub body and taper bush of cast iron with lamellar graphite

Material Overview

Rubber mixture	Ambient temperature	Color	Identifier
Natural/synthetic caoutchouc, standard version	-40 °F (-40 °C) to +176 °F (+80 °C)	black	...N
Natural/synthetic caoutchouc in temperature-resistant design	-13 °F (-25 °C) to +212 °F (+100 °C)	black	...T
Synthetic caoutchouc in temperature-resistant design ^{*)}	-13 °F (-25 °C) to +248 °F (+120 °C)	black	...Y
Silicone caoutchouc	-40 °F (-40 °C) to +266 °F (+130 °C)	blue	...X

i *) technical data on request

ARCUSAFLEX®

Selection of the coupling size

The coupling size, for use in combustion engines, is designed and selected with a view to torsional vibration. For preliminary selection using the engine torque T_{AN} a general safety factor of $S = 1.3 - 1.5$

should be applied for ARCUSAFLEX® couplings with flexible disc elements of natural/synthetic caoutchouc.

In selecting the coupling size the following should be satisfied:

The nominal torque of the coupling T_{KN} must be taken into account at every temperature and operating load of the coupling, while observing the service factors S (e.g. temperature factor S_t) shall be at least equal to the maximum nominal torque on the drive side T_{AN} ; the temperature in the immediate vicinity of the coupling must be taken into account.

$$T_{KN} \geq T_{AN} \cdot S_t$$

The nominal torque on the drive side T_{AN} is calculated with the driving power P_{AN} and the coupling speed n_{AN} .

$$T_{AN} [Nm] = 63.000 \frac{P_{AN} [HP]}{n_{AN} [rpm]}$$

The temperature factor S_t allows for the decreasing load capacity of the coupling when affected by elevated ambient temperatures in the vicinity of the coupling. In this connection $S_t = S_{t1}$ is valid for standard version and $S_t = S_{t2}$ for silicone version.

°F	140	158	176	194	212	230	248	266
°C	60	70	80	90	100	110	120	130
S_{t1}	1.25	1.4	1.6	on request	-	-	-	-
S_{t2}	1.5	1.5	1.5	1.7	1.9	2.1	2.3	2.5

The maximum torque capacity of the coupling, T_{Kmax} shall be at least equal to the highest torque T_{max} encountered in operation while taking the temperature factor S_t into account.

$$T_{Kmax} \geq T_{max} \cdot S_t$$

A continuous torsional vibration analysis to verify the coupling selection should confirm that the permissible **continuous fatigue torque T_{KW}** is at least equal to the highest fatigue torque T_W under reversing stresses encountered throughout the operating speed range while taking into account the temperature and frequency.

$$T_{KW} (10 \text{ Hz}) \geq T_W \cdot S_t \cdot S_f$$

The frequency factor S_f allows for the frequency dependence of the permissible continuous fatigue torque under reversing stresses $T_{KW} (10 \text{ Hz})$ with an operating frequency f_x .

$$S_f = \sqrt{\frac{f_x}{10}}$$

The selection of the coupling size should be checked with regard to the permissible coupling load, in particular any fatigue torques occurring, by means of a torsional vibration analysis, which we carry out on request (if all necessary technical data is available) according to the two-mass or n-mass system. When using ARCUSAFLEX® couplings in drives with high torque transmission variations, an additional safety

factor should be applied for torque transmission to the driven machine. The coupling can be equipped with an additional balancing mass on the primary or secondary side, if this is required due to the torsional vibration conditions or for control reasons. Further information for the torsional vibration analysis and for use of the highly flexible ARCUSAFLEX® rubber disc coupling are available on request.

ARCUSAFLEX®

Type AC-T...F2

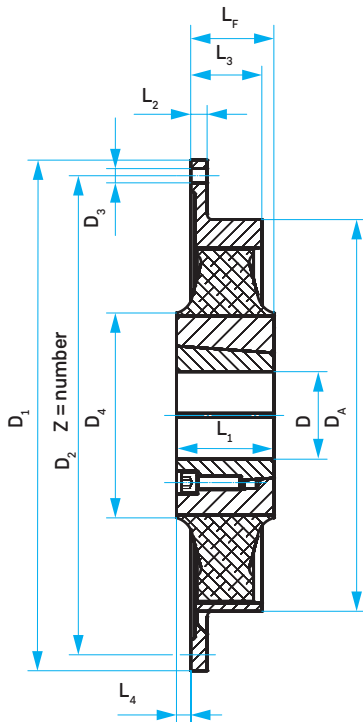


Fig. 1

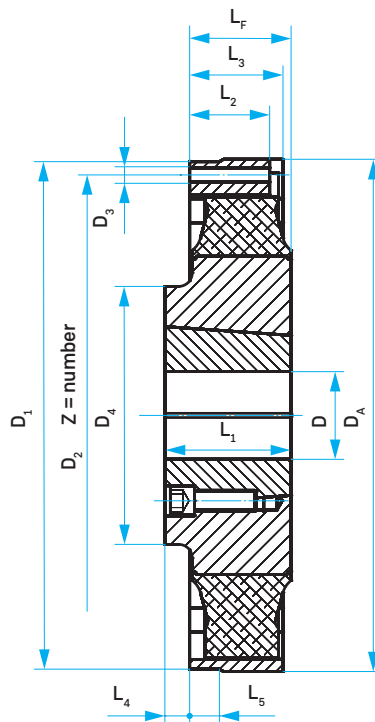
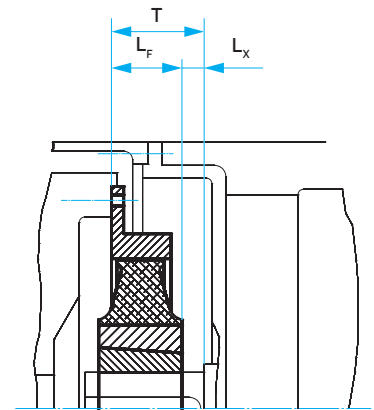


Fig. 2



Mounting instruction:

If engine and generator connecting dimensions comply with DIN 6281, the distance dimension L_X must be observed during assembly. The coupling dimension L_F must be within the tolerance.

Available taper bushes

TB-No.	D = Metric bores with keyway acc. to DIN 6885/1																		
1610	12	14	15	16	18	20	22	24	25	28	30	32	35	38	40	-	-	-	-
2012	14	16	17	19	20	22	24	25	28	30	32	35	38	40	42	45	48	-	-
2517	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60
3030	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75	-	-	-
3535	35	38	40	42	45	48	50	55	60	65	70	75	80	85	90	-	-	-	-
4040	40	42	45	48	50	55	60	65	70	75	80	85	90	95	100	-	-	-	-
4535	55	60	65	70	75	80	85	90	95	100	105	110	-	-	-	-	-	-	-
4545	55	60	65	70	75	80	85	90	95	100	105	110	-	-	-	-	-	-	-
5040	70	75	80	85	90	95	100	105	110	115	120	125	-	-	-	-	-	-	-

i Taper bushes with inch bores and other dimensions on request

METRIC DIMENSIONS

Coupling details

Coupling size	Fig.	Flange connection to SAE J 620						Taper-bushing TB-No.									DIN 6281		J ₁ outside [kgm ²]	J ₂ inside [kgm ²]	Total weight [kg]
		SAE size	D ₁ [mm]	D ₂ [mm]	D ₃ [mm]	Z	D _A [mm]		D ₄ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L _F [mm]	T [mm]	L _x [mm]				
AC-T 1.5...F2	1	6.5	215.9	200.0	8.5	6	1610	177	106	25	8	37	-	-	38 ± 2	-	-	0.005	0.004	2.2	
	1	7.5	241.3	222.3	8.5	8	1610	177	106	25	8	37	-	-	38 ± 2	-	-	0.009	0.004	2.6	
	1	8	263.5	244.5	10.5	6	1610	177	106	25	8	37	-	-	38 ± 2	81.0	43	0.010	0.004	2.6	
	1	10	314.3	295.3	10.5	8	1610	177	106	25	8	37	-	-	38 ± 2	73.0	35	0.021	0.004	3.1	
AC-T 2.3...F2	-	6.5	215.9	200.0	8.5	6	2012	222	-	32	6	41	-	8	52 ± 2	-	-	0.006	0.008	3.0	
	2	7.5	241.3	222.3	8.5	8	2012	222	-	32	33	33	-	8	43 ± 3	-	-	0.008	0.008	3.1	
	1	8	263.5	244.5	10.5	6	2012	222	-	32	8	33	-	-	43 ± 3	81.0	38	0.011	0.008	3.3	
	1	10	314.3	295.3	10.5	8	2012	222	-	32	8	33	-	-	43 ± 3	73.0	30	0.011	0.008	3.2	
AC-T 2.6...F2	2	8	263.5	244.5	10.5	6	2517	263	155	45	33	38	3	-	42 ± 4	81.0	41	0.012	0.017	2.9	
	1	10	314.3	295.3	10.5	8	2517	266	155	45	10	38	3	-	42 ± 4	73.0	33	0.021	0.017	3.7	
	1	11.5	352.4	333.4	10.5	8	2517	266	155	45	10	38	3	-	42 ± 4	58.6	16	0.026	0.017	5.6	
AC-T 2.7...F2	1	8	263.5	244.5	10.5	6	2517	219	150	45	4	37	5	-	40 ± 4	81.0	41	0.013	0.013	5.0	
	1	10	314.3	295.3	10.5	8	2517	219	150	45	4	37	5	-	40 ± 4	73.0	31	0.029	0.013	5.7	
	1	11.5	352.4	333.4	10.5	8	2517	219	150	45	4	37	5	-	40 ± 4	58.6	16	0.046	0.013	6.3	
AC-T 3...F2	1	10	314.3	295.3	10.5	8	2517	291	190	54	16	52	6	-	58 ± 7	73.0	14	0.029	0.030	7.4	
	1	11.5	352.4	333.4	10.5	8	2517	291	190	54	16	52	6	-	58 ± 7	58.6	0	0.036	0.030	7.6	
AC-T 4...F2	2	10	314.3	295.3	10.5	8	3030	320	229	76	56	56	10	13	66 ± 6	73.0	4	0.041	0.069	13.3	
	1	11.5	352.4	333.4	10.5	8	3030	320	229	76	16	70	8	-	68 +16 /-6	106.6	39	0.058	0.069	13.8	
	1	14	466.7	438.2	13.0	8	3030	320	229	76	16	70	8	-	68 +16 /-6	92.4	25	0.090	0.069	14.7	
AC-T 4.9...F2	1	11.5	352.4	333.4	10.5	8	3535	320	192	89	16	77	-	-	92 ± 7	106.6	14	0.063	0.092	15.8	
	1	14	466.7	438.2	13.0	8	3535	320	192	89	16	77	-	-	92 ± 7	92.4	0	0.096	0.092	16.6	
AC-T 5...F2	2	11.5	352.4	333.4	10.5	8	3535	354	248	89	54	65	13	20.5	76 ± 5	106.6	30	0.055	0.118	17.4	
	1	14	466.7	438.2	13.0	8	3535	354	248	89	15	65	13	-	76 ± 5	92.4	17	0.155	0.118	19.6	
AC-T 6...F2	1	14	466.7	438.2	13.0	8	4040	420	268	102	18	80	10	-	92 ± 7	92.4	0	0.174	0.304	31.5	
	1	16	517.5	489.0	13.0	8	4040	420	268	102	18	80	10	-	92 ± 7	82.7	-	0.318	0.304	34.0	
	1	18	571.5	542.9	17.0	6	4040	420	268	102	18	80	10	-	92 ± 7	82.7	-	0.494	0.304	36.4	
AC-T 6.5...F2	1	14	466.7	438.2	13.0	8	4535	423	274	90	16	90	-	-	92 ± 4	92.4	0	0.241	0.434	38.8	
	1	18	571.5	542.9	17.0	6	4535	423	274	90	16	90	-	-	92 ± 4	82.7	-	1.262	0.434	57.1	
AC-T 7...F2	2	14	466.7	438.2	13.0	8	4545	466	344	115	85	85	28	27	87 ± 10	92.4	5	0.284	0.669	53.3	
	1	16	517.5	489.0	13.0	8	4545	466	344	115	27	85	28	-	87 ± 10	82.7	0	0.390	0.669	55.1	
	1	18	571.5	542.9	17.0	6	4545	466	344	115	18	85	28	-	87 ± 10	82.7	0	0.477	0.669	56.1	
AC-T 7.5...F2	2	14	466.7	438.2	13.0	8	4545	478	330	115	100	115	5	15	110 ± 5	-	-	1.351	0.729	76.2	
AC-T 8...F2	1	18	571.5	542.9	17.0	12	5040	515	390	102	18	84	-	-	102 ± 5	-	-	0.472	1.037	61.9	
	1	21	673.1	641.4	17.0	12	5040	515	390	102	18	84	-	-	102 ± 5	-	-	0.967	1.037	67.0	
AC-T 9...F2	1	18	571.5	542.9	17.0	12	5040	562	398	102	35	92	-	-	102 ± 4	-	-	0.690	1.543	79.1	
	1	21	673.1	641.4	17.0	12	5040	562	398	102	20	92	-	-	102 ± 4	-	-	1.316	1.543	85.7	

Ordering example

Coupling size Element version acc. to 'Technical data' Flange version Flange connection size acc. to SAE J 620 Nominal size of taper bush Bore diameter

AC-T 4 .NN. F2. 14. 3030. 65

Coupling designation: AC-T 4 .NN. F2. 14. 3030. 65

ARCUSAFLEX®

Type AC-T...F2

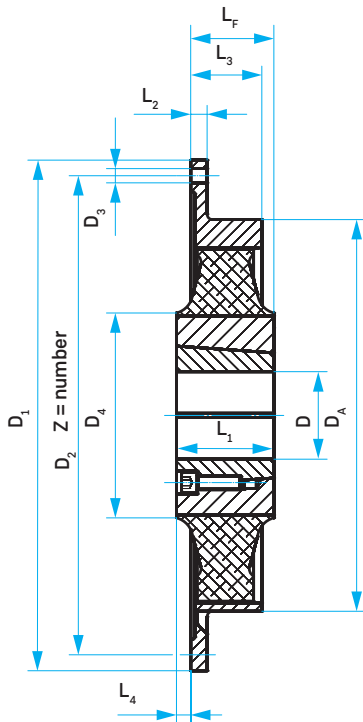


Fig. 1

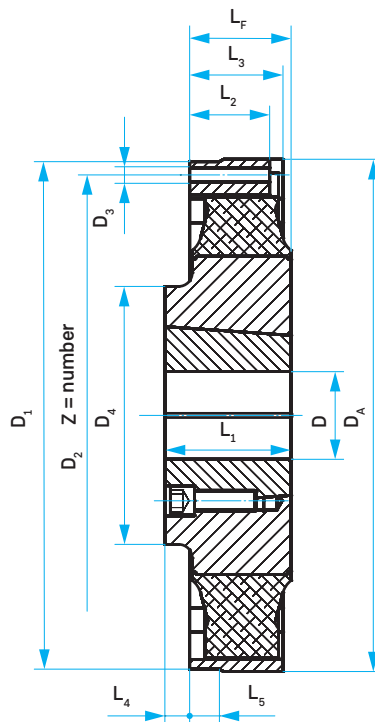
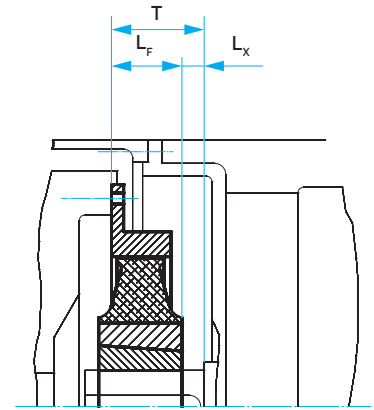


Fig. 2



Mounting instruction:

If engine and generator connecting dimensions comply with DIN 6281, the distance dimension L_X must be observed during assembly. The coupling dimension L_F must be within the tolerance.

Available taper bushes

TB-No.	D = Metric bores with keyway acc. to DIN 6885/1																		
1610	12	14	15	16	18	20	22	24	25	28	30	32	35	38	40	-	-	-	-
2012	14	16	17	19	20	22	24	25	28	30	32	35	38	40	42	45	48	-	-
2517	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	60
3030	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75	-	-	-
3535	35	38	40	42	45	48	50	55	60	65	70	75	80	85	90	-	-	-	-
4040	40	42	45	48	50	55	60	65	70	75	80	85	90	95	100	-	-	-	-
4535	55	60	65	70	75	80	85	90	95	100	105	110	-	-	-	-	-	-	-
4545	55	60	65	70	75	80	85	90	95	100	105	110	-	-	-	-	-	-	-
5040	70	75	80	85	90	95	100	105	110	115	120	125	-	-	-	-	-	-	-

i Taper bushes with inch bores and other dimensions on request

INCH DIMENSIONS

Coupling details

Coupling size	Fig.	Flange connection to SAE J 620						Taper-bushing TB-No.									DIN 6281		J ₁ outside [lb-in ²]	J ₂ inside [lb-in ²]	Total weight [lb]
		SAE size	D ₁ [in]	D ₂ [in]	D ₃ [in]	Z	D _A [in]		D ₄ [in]	L ₁ [in]	L ₂ [in]	L ₃ [in]	L ₄ [in]	L ₅ [in]	L _F [in]	T [in]	L _x [in]				
AC-T 1.5...F2	1	6.5	8.500	7.875	0.335	6	1610	6.97	4.17	0.98	0.31	1.46	-	-	1.50 ± 0.1	-	-	17.1	13.7	4.9	
	1	7.5	9.500	8.750	0.335	8	1610	6.97	4.17	0.98	0.31	1.46	-	-	1.50 ± 0.1	-	-	30.8	13.7	5.7	
	1	8	10.375	9.625	0.413	6	1610	6.97	4.17	0.98	0.31	1.46	-	-	1.50 ± 0.1	3.19	1.69	34.2	13.7	5.7	
	1	10	12.375	11.625	0.413	8	1610	6.97	4.17	0.98	0.31	1.46	-	-	1.50 ± 0.1	2.87	1.38	71.8	13.7	6.8	
AC-T 2.3...F2	-	6.5	8.500	7.875	0.335	6	2012	8.74	-	1.26	0.24	1.61	-	0.31	2.05 ± 0.1	-	-	20.5	27.3	6.6	
	2	7.5	9.500	8.750	0.335	8	2012	8.74	-	1.26	1.30	1.30	-	0.31	1.69 ± 0.1	-	-	27.3	27.4	6.8	
	1	8	10.375	9.625	0.413	6	2012	8.74	-	1.26	0.31	1.30	-	-	1.69 ± 0.1	3.19	1.50	37.6	27.3	7.3	
	1	10	12.375	11.625	0.413	8	2012	8.74	-	1.26	0.31	1.30	-	-	1.69 ± 0.1	2.87	1.18	37.6	27.3	7.1	
AC-T 2.6...F2	2	8	10.375	9.625	0.413	6	2517	10.35	6.10	1.77	1.30	1.50	0.12	-	1.65 ± 0.2	3.19	1.61	41.0	58.1	6.4	
	1	10	12.375	11.625	0.413	8	2517	10.47	6.10	1.77	0.39	1.50	0.12	-	1.65 ± 0.2	2.87	1.30	71.8	58.1	8.2	
	1	11.5	13.875	13.125	0.413	8	2517	10.47	6.10	1.77	0.39	1.50	0.12	-	1.65 ± 0.2	2.31	0.63	88.9	58.1	12.4	
AC-T 2.7...F2	1	8	10.375	9.625	0.413	6	2517	8.62	5.91	1.77	0.16	1.46	0.20	-	1.57 ± 0.2	3.19	1.61	44.4	44.4	11.0	
	1	10	12.375	11.625	0.413	8	2517	8.62	5.91	1.77	0.16	1.46	0.20	-	1.57 ± 0.2	2.87	1.22	99.1	44.4	12.6	
	1	11.5	13.875	13.125	0.413	8	2517	8.62	5.91	1.77	0.16	1.46	0.20	-	1.57 ± 0.2	2.31	0.63	157.2	44.4	13.9	
AC-T 3...F2	1	10	12.375	11.625	0.413	8	2517	11.46	7.48	2.13	0.63	2.05	0.24	-	2.28 ± 0.3	2.87	0.55	99.1	102.5	16.3	
	1	11.5	13.875	13.125	0.413	8	2517	11.46	7.48	2.13	0.63	2.05	0.24	-	2.28 ± 0.3	2.31	0	123.0	102.5	16.8	
AC-T 4...F2	2	10	12.375	11.625	0.413	8	3030	12.60	9.02	2.99	2.20	2.20	0.39	0.51	2.60 ± 0.2	2.87	0.16	140.1	235.8	29.4	
	1	11.5	13.875	13.125	0.413	8	3030	12.60	9.02	2.99	0.63	2.76	0.31	-	2.68 +0.6 /-0.2	4.20	1.54	198.2	235.8	30.5	
	1	14	18.375	17.250	0.512	8	3030	12.60	9.02	2.99	0.63	2.76	0.31	-	2.68 +0.6 /-0.2	3.64	0.98	307.6	235.8	32.4	
AC-T 4.9...F2	1	11.5	13.875	13.125	0.413	8	3535	12.60	7.56	3.50	0.63	3.03	-	-	3.62 ± 0.3	4.20	0.55	215.3	314.4	34.9	
	1	14	18.375	17.250	0.512	8	3535	12.60	7.56	3.50	0.63	3.03	-	-	3.62 ± 0.3	3.64	0	328.1	314.4	36.6	
AC-T 5...F2	2	11.5	13.875	13.125	0.413	8	3535	13.94	9.76	3.50	2.13	2.56	0.51	0.81	2.99 ± 0.2	4.20	1.18	187.9	403.2	38.4	
	1	14	18.375	17.250	0.512	8	3535	13.94	9.76	3.50	0.59	2.56	0.51	-	2.99 ± 0.2	3.64	0.67	529.7	403.2	43.3	
AC-T 6...F2	1	14	18.375	17.250	0.512	8	4040	16.54	10.55	4.02	0.71	3.15	0.39	-	3.62 ± 0.3	3.64	0	594.6	1038.8	69.5	
	1	16	20.375	19.250	0.512	8	4040	16.54	10.55	4.02	0.71	3.15	0.39	-	3.62 ± 0.3	3.26	-	1086.7	1038.8	75.0	
	1	18	22.500	21.375	0.669	6	4040	16.54	10.55	4.02	0.71	3.15	0.39	-	3.62 ± 0.3	3.26	-	1688.1	1038.8	80.3	
AC-T 6.5...F2	1	14	18.375	17.250	0.512	8	4535	16.65	10.79	3.54	0.63	3.54	-	-	3.62 ± 0.2	3.64	0	823.5	1483.1	85.6	
	1	18	22.500	21.375	0.669	6	4535	16.65	10.79	3.54	0.63	3.54	-	-	3.62 ± 0.2	3.26	-	4312.5	1483.1	126.0	
AC-T 7...F2	2	14	18.375	17.250	0.512	8	4545	18.35	13.54	4.53	3.35	3.35	1.10	1.06	3.43 ± 0.4	3.64	0.20	970.5	2286.1	117.6	
	1	16	20.375	19.250	0.512	8	4545	18.35	13.54	4.53	1.06	3.35	1.10	-	3.43 ± 0.4	3.26	0	1332.7	2286.1	121.6	
	1	18	22.500	21.375	0.669	6	4545	18.35	13.54	4.53	0.71	3.35	1.10	-	3.43 ± 0.4	3.26	0	1630.0	2286.1	123.8	
AC-T 7.5...F2	2	14	18.375	17.250	0.512	8	4545	18.82	12.99	4.53	3.94	4.53	0.20	0.59	4.33 ± 0.2	-	-	4616.6	2491.1	168.2	
AC-T 8...F2	1	18	22.500	21.375	0.669	12	5040	20.28	15.35	4.02	0.71	3.31	-	-	4.02 ± 0.2	-	-	1612.9	3543.6	136.6	
	1	21	26.500	25.250	0.669	12	5040	20.28	15.35	4.02	0.71	3.31	-	-	4.02 ± 0.2	-	-	3304.4	3543.6	147.9	
AC-T 9...F2	1	18	22.500	21.375	0.669	12	5040	22.13	15.67	4.02	1.38	3.62	-	-	4.02 ± 0.2	-	-	2357.9	5272.7	174.6	
	1	21	26.500	25.250	0.669	12	5040	22.13	15.67	4.02	0.79	3.62	-	-	4.02 ± 0.2	-	-	4497.0	5272.7	189.1	

Ordering example

Coupling size Element version acc. to 'Technical data' Flange version Flange connection size acc. to SAE J 620 Nominal size of taper bush Bore diameter

AC-T 4 .NN. F2. 14. 3030. 65

Coupling designation: AC-T 4 .NN. F2. 14. 3030. 65

ARCUSAFLEX®

Type AC...F2

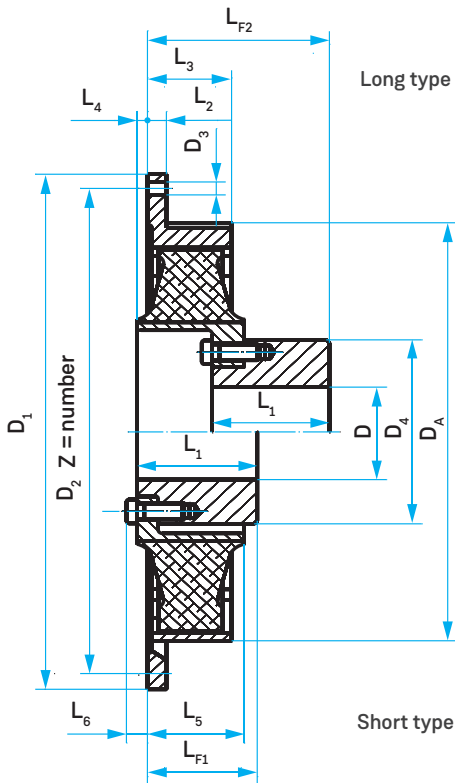


Fig. 1

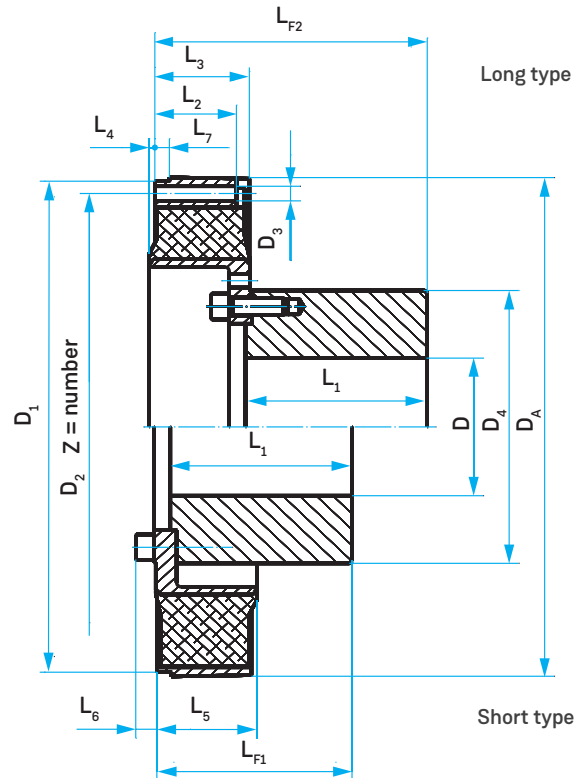


Fig. 2

🔄 The option of mounting the coupling element on either side allows for two different mounting lengths with the same coupling hub.

METRIC DIMENSIONS

Coupling details

Coupling size	Fig.	Flange connection to SAE J 620						D _A	D		D ₄	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L _{F1} short	L _{F2} long	J ₁ outside	J ₂ inside	Total weight
		SAE size	D ₁ [mm]	D ₂ [mm]	D ₃ [mm]	Z	min.		max.														
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]														
AC 2.3...F2	-	6.5	215.9	200.0	8.5	6	222	unbored and centred	60	98	54	6	41	-	52	-	8	-	103	0.006	0.009	4.0	
	2	7.5	241.3	222.3	8.5	8	222		60	98	54	33	33	-	43	-	8	-	94	0.008	0.009	4.1	
	1	8	263.5	244.5	10.5	6	222		60	98	54	8	33	-	43	-	-	-	94	0.011	0.009	4.3	
	1	10	314.3	295.3	10.5	8	222		60	98	54	8	33	-	43	-	-	-	94	0.011	0.009	4.2	
AC 2.6...F2	2	8	263.5	244.5	10.5	6	263		65	118	65	33	38	3	42	12	-	73	104	0.012	0.021	6.8	
	1	10	314.3	295.3	10.5	8	266		65	118	65	10	38	3	42	12	-	73 ¹⁾	104	0.021	0.021	7.2	
	1	11.5	352.4	333.4	10.5	8	266		65	118	65	10	38	3	42	12	-	73	104	0.026	0.021	7.3	
AC 2.7...F2	1	8	263.5	244.5	10.5	6	219		65	118	65	4	37	5	40	-	-	-	102	0.013	0.017	6.7	
	1	10	314.3	295.3	10.5	8	219		65	118	65	4	37	5	40	-	-	-	102	0.029	0.017	7.5	
	1	11.5	352.4	333.4	10.5	8	219		65	118	65	4	37	5	40	-	-	-	102	0.046	0.017	8.1	
AC 3...F2	1	10	314.3	295.3	10.5	8	291		65	118	68	16	52	5	60	12	-	73 ¹⁾	121	0.029	0.033	8.7	
	1	11.5	352.4	333.4	10.5	8	291		65	118	70	16	52	5	60	16	-	58 ¹⁾	107	0.036	0.031	8.2	
AC 4...F2	2	10	314.3	295.3	10.5	8	320		80	140	101	56	56	8	68	15	13	106	166	0.041	0.071	14.7	
	1	11.5	352.4	333.4	10.5	8	320		80	140	101	16	70	8	68	15	-	106 ¹⁾	166	0.058	0.071	15.4	
	1	14	466.7	438.2	13.0	8	320		80	140	87	16	70	8	68	15	-	92 ¹⁾	152	0.090	0.067	15.1	
AC 4.9...F2	1	11.5	352.4	333.4	10.5	8	320		90	160	100	16	77	-	79	7	-	106	165	0.063	0.101	18.3	
	1	14	466.7	438.2	13.0	8	320		90	160	90	16	77	-	79	7	-	92	151	0.096	0.095	17.7	
	2	11.5	352.4	333.4	10.5	8	354		90	160	110	54	65	13	76	23	20.5	106 ¹⁾	175	0.055	0.129	20.5	
AC 5...F2	1	14	466.7	438.2	13.0	8	354		90	160	105	15	65	13	76	23	-	92 ¹⁾	161	0.155	0.124	21.4	
	1	14	466.7	438.2	13.0	8	420		100	185	102	18	80	10	92	20	-	92 ¹⁾	174	0.174	0.278	29.6	
	1	16	517.5	489.0	13.0	8	420	100	185	102	18	80	10	92	20	-	92	174	0.318	0.278	32.1		
AC 6...F2	1	18	571.5	542.9	17.0	6	420	100	185	102	18	80	10	92	20	-	92	174	0.494	0.278	34.5		
	1	14	466.7	438.2	13.0	8	423	120	222	125	16	90	-	92	33	-	92 ¹⁾	164	0.241	0.397	37.6		
	1	18	571.5	542.9	17.0	6	423	120	222	125	16	90	-	92	33	-	92	164	1.262	0.397	55.8		
AC 7...F2	2	14	466.7	438.2	13.0	8	466	120	222	125	85	85	2	88	33	27	92 ¹⁾	164	0.284	0.498	41.3		
	1	16	517.5	489.0	13.0	8	466	120	222	125	27	85	2	88	33	-	92	164	0.390	0.498	43.1		
	1	18	571.5	542.9	17.0	6	466	120	222	125	18	85	2	88	33	-	92	164	0.477	0.498	44.1		
	2	14	466.7	438.2	13.0	8	478	130	222	130	100	115	0	115	16	15	150	240	1.351	0.666	72.8		
AC 8...F2	1	18	571.5	542.9	17.0	12	515	165	250	142	18	84	0	86	10	-	159	225	0.472	0.903	56.8		
	1	21	673.1	641.4	17.0	12	515	165	250	142	18	84	0	86	10	-	159	225	0.967	0.903	61.9		
AC 9...F2	1	18	571.5	542.9	17.0	12	562	75	150	240	140	35	92	0	103	9	-	131	237	0.690	1.185	66.8	
	1	21	673.1	641.4	17.0	12	562	75	150	240	140	20	92	0	103	9	-	131	237	1.316	1.185	73.4	
AC 10.2...F2	2	18	571.5	542.9	17.0	12	580	90	200	310	200	104	104	2.5	107	23	16	215	300	0.671	2.320	106	
	1	21	673.1	641.4	17.0	12	580	90	200	310	200	26	104	2.5	107	23	-	215	300	1.260	2.320	112	
AC 11...F2	2	21	673.1	641.4	17.0	12	682	90	220	380	210	85	111	0	107	24	15	232	312	3.725	5.284	201	
	1	24	733.4	692.2	21.0	12	682	90	220	380	210	20	111	0	107	24	-	232	312	4.620	5.284	208	
AC 11.7...F2	2	21	673.1	641.4	17.0	24	682	90	220	380	250	114	140	0	136	20	15	245	350	4.489	6.030	227	
	1	24	733.4	692.2	21.0	24	682	90	220	380	250	20	140	0	136	20	-	245	350	5.314	6.030	234	
AC 11.9...F2	2	21	673.1	641.4	17.0	24	755	-	180	316	210	24	158	-	158	-	14	250	-	2.876	5.553	160	
	2	24	733.4	692.2	21.0	12	755	-	180	316	210	22	158	-	158	-	14	250	-	3.244	5.553	163	

i 1) Mounting length for flange connection dimensions according to SAE J 620 or DIN 6281

Other flange and length dimensions on request.

Ordering example

Coupling size	Element version acc. to 'Technical data'	Flange version	Flange connection size acc. to SAE J 620	Mounting length L _{F1} and L _{F2} in millimeters
AC 7	.NN.	F2.	14.	92

Coupling designation: AC 7 NN. F2. 14. 92

INCH DIMENSIONS

Coupling details

Coupling size	Fig.	Flange connection to SAE J 620						D _A [in]	D		D ₄ [in]	L ₁ [in]	L ₂ [in]	L ₃ [in]	L ₄ [in]	L ₅ [in]	L ₆ [in]	L ₇ [in]	L _{F1} short [in]	L _{F2} long [in]	J ₁ outside [lb-in ²]	J ₂ inside [lb-in ²]	Total weight [lb]
		SAE size	D ₁ [in]	D ₂ [in]	D ₃ [in]	Z	min.		max.														
							[in]		[in]														
AC 2.3...F2	-	6.5	8.500	7.875	0.335	6	8.74	unbored and centred	2.36	3.86	2.13	0.24	1.61	-	2.05	-	0.31	-	4.06	20.5	30.8	8.8	
	2	7.5	9.500	8.750	0.335	8	8.74		2.36	3.86	2.13	1.30	1.30	-	1.69	-	0.31	-	3.70	27.3	30.8	9.1	
	1	8	10.375	9.625	0.413	6	8.74		2.36	3.86	2.13	0.31	1.30	-	1.69	-	-	-	3.70	37.6	30.8	9.5	
	1	10	12.375	11.625	0.413	8	8.74		2.36	3.86	2.13	0.31	1.30	-	1.69	-	-	-	3.70	37.6	30.8	9.3	
AC 2.6...F2	2	8	10.375	9.625	0.413	6	10.35		2.56	4.65	2.56	1.30	1.50	0.12	1.65	0.47	-	2.87	4.09	41.0	71.8	15.0	
	1	10	12.375	11.625	0.413	8	10.47		2.56	4.65	2.56	0.39	1.50	0.12	1.65	0.47	-	2.87 ¹⁾	4.09	71.8	71.8	15.9	
	1	11.5	13.875	13.125	0.413	8	10.47		2.56	4.65	2.56	0.39	1.50	0.12	1.65	0.47	-	2.87	4.09	88.9	71.8	16.1	
AC 2.7...F2	1	8	10.375	9.625	0.413	6	8.62		2.56	4.65	2.56	0.16	1.46	0.20	1.57	-	-	-	4.02	44.4	58.1	14.8	
	1	10	12.375	11.625	0.413	8	8.62		2.56	4.65	2.56	0.16	1.46	0.20	1.57	-	-	-	4.02	99.1	58.1	16.6	
	1	11.5	13.875	13.125	0.413	8	8.62		2.56	4.65	2.56	0.16	1.46	0.20	1.57	-	-	-	4.02	157.2	58.1	17.9	
AC 3...F2	1	10	12.375	11.625	0.413	8	11.46		2.56	4.65	2.68	0.63	2.05	0.20	2.36	0.47	-	2.87 ¹⁾	4.76	99.1	112.8	19.2	
	1	11.5	13.875	13.125	0.413	8	11.46		2.56	4.65	2.76	0.63	2.05	0.20	2.36	0.63	-	2.28 ¹⁾	4.21	123.0	105.9	18.1	
AC 4...F2	2	10	12.375	11.625	0.413	8	12.60		3.15	5.51	3.98	2.20	2.20	0.31	2.68	0.59	0.51	4.17	6.54	140.1	242.6	32.4	
	1	11.5	13.875	13.125	0.413	8	12.60		3.15	5.51	3.98	0.63	2.76	0.31	2.68	0.59	-	4.17 ¹⁾	6.54	198.2	242.6	34.0	
	1	14	18.375	17.250	0.512	8	12.60		3.15	5.51	3.43	0.63	2.76	0.31	2.68	0.59	-	3.62 ¹⁾	5.98	307.6	229.0	33.3	
AC 4.9...F2	1	11.5	13.875	13.125	0.413	8	12.60		3.54	6.30	3.94	0.63	3.03	-	3.11	0.28	-	4.17	6.50	215.3	345.1	40.4	
	1	14	18.375	17.250	0.512	8	12.60		3.54	6.30	3.54	0.63	3.03	-	3.11	0.28	-	3.62	5.94	328.1	324.6	39.1	
AC 5...F2	2	11.5	13.875	13.125	0.413	8	13.94		3.54	6.30	4.33	2.13	2.56	0.51	2.99	0.91	0.81	4.17 ¹⁾	6.89	187.9	440.8	45.2	
	1	14	18.375	17.250	0.512	8	13.94		3.54	6.30	4.13	0.59	2.56	0.51	2.99	0.91	-	3.62 ¹⁾	6.34	529.7	423.7	47.2	
AC 6...F2	1	14	18.375	17.250	0.512	8	16.54		3.94	7.28	4.02	0.71	3.15	0.39	3.62	0.79	-	3.62 ¹⁾	6.85	594.6	950.0	65.3	
	1	16	20.375	19.250	0.512	8	16.54	3.94	7.28	4.02	0.71	3.15	0.39	3.62	0.79	-	3.62	6.85	1086.7	950.0	70.8		
	1	18	22.500	21.375	0.669	6	16.54	3.94	7.28	4.02	0.71	3.15	0.39	3.62	0.79	-	3.62	6.85	1688.1	950.0	76.1		
AC 6.5...F2	1	14	18.375	17.250	0.512	8	16.65	4.72	8.74	4.92	0.63	3.54	-	3.62	1.30	-	3.62 ¹⁾	6.46	823.5	1356.6	83.0		
	1	18	22.500	21.375	0.669	6	16.65	4.72	8.74	4.92	0.63	3.54	-	3.62	1.30	-	3.62	6.46	4312.5	1356.6	123.2		
AC 7...F2	2	14	18.375	17.250	0.512	8	18.35	4.72	8.74	4.92	3.35	3.35	0.08	3.46	1.30	1.06	3.62 ¹⁾	6.46	970.5	1701.8	91.2		
	1	16	20.375	19.250	0.512	8	18.35	4.72	8.74	4.92	1.06	3.35	0.08	3.46	1.30	-	3.62	6.46	1332.7	1701.8	95.1		
	1	18	22.500	21.375	0.669	6	18.35	4.72	8.74	4.92	0.71	3.35	0.08	3.46	1.30	-	3.62	6.46	1630.0	1701.8	97.3		
AC 7.5...F2	2	14	18.375	17.250	0.512	8	18.82	5.12	8.74	5.12	3.94	4.53	0	4.53	0.63	0.59	5.91	9.45	4616.6	2275.8	160.7		
AC 8...F2	1	18	22.500	21.375	0.669	12	20.28	6.50	9.84	5.59	0.71	3.31	0	3.39	0.39	-	6.26	8.86	1612.9	3085.7	125.3		
	1	21	26.500	25.250	0.669	12	20.28	6.50	9.84	5.59	0.71	3.31	0	3.39	0.39	-	6.26	8.86	3304.4	3085.7	136.6		
AC 9...F2	1	18	22.500	21.375	0.669	12	22.13	2.95	5.91	9.45	5.51	1.38	3.62	0	4.06	0.35	-	5.16	9.33	2357.9	4049.4	147.4	
	1	21	26.500	25.250	0.669	12	22.13	2.95	5.91	9.45	5.51	0.79	3.62	0	4.06	0.35	-	5.16	9.33	4497.0	4049.4	161.9	
AC 10.2...F2	2	18	22.500	21.375	0.669	12	22.83	3.54	7.87	12.20	7.87	4.09	4.09	0.10	4.21	0.91	0.63	8.46	11.81	2292.9	7927.8	233.9	
	1	21	26.500	25.250	0.669	12	22.83	3.54	7.87	12.20	7.87	1.02	4.09	0.10	4.21	0.91	-	8.46	11.81	4305.6	7927.8	247.2	
AC 11...F2	2	21	26.500	25.250	0.669	12	26.85	3.54	8.66	14.96	8.27	3.35	4.37	0	4.21	0.94	0.59	9.13	12.28	12729.0	18056.3	444.1	
	1	24	28.875	27.250	0.827	12	26.85	3.54	8.66	14.96	8.27	0.79	4.37	0	4.21	0.94	-	9.13	12.28	15787.3	18056.3	459.9	
AC 11.7...F2	2	21	26.500	25.250	0.669	24	26.85	3.54	8.66	14.96	9.84	4.49	5.51	0	5.35	0.79	0.59	9.65	13.78	15339.7	20605.6	500.5	
	1	24	28.875	27.250	0.827	24	26.85	3.54	8.66	14.96	9.84	0.79	5.51	0	5.35	0.79	-	9.65	13.78	18158.9	20605.6	516.4	
AC 11.9...F2	2	21	26.500	25.250	0.669	24	29.72	-	7.09	12.44	8.27	0.94	6.22	-	6.22	-	0.55	9.84	-	9827.8	18975.6	353.1	
	2	24	28.875	27.250	0.827	12	29.72	-	7.09	12.44	8.27	0.87	6.22	-	6.22	-	0.55	9.84	-	11085.3	18975.6	359.8	

i 1) Mounting length for flange connection dimensions according to SAE J 620 or DIN 6281

Other flange and length dimensions on request.

Ordering example

Coupling size Element version acc. to 'Technical data' Flange version Flange connection size acc. to SAE J 620 Mounting length L_{F1} and L_{F2} in millimetres

AC 7 .NN. F2. 14. 92

Coupling designation: AC 7 NN. F2. 14. 92

ARCUSAFLEX®

Type AC...F2K

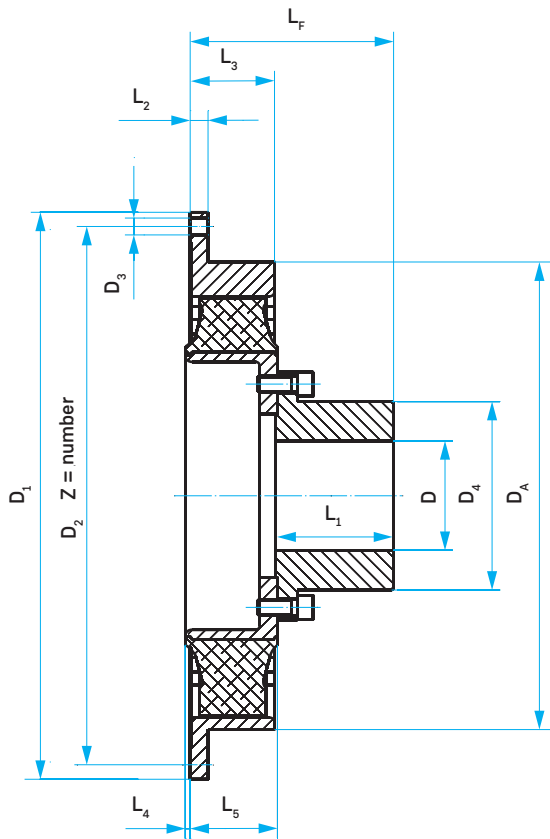


Fig. 1

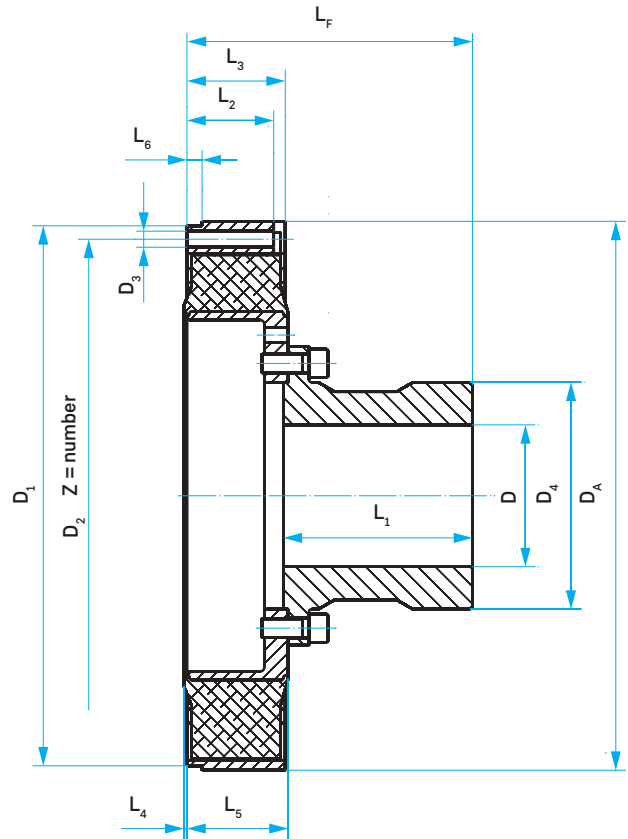


Fig. 2

METRIC DIMENSIONS

Coupling details

Coupling size	Flange connection to SAE J 620							D _A [mm]	unbored and centred													Total weight [kg]
	Fig.	SAE size	D ₁	D ₂	D ₃	Z	D min.		D max.	D ₄	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L _F	J ₁ outside	J ₂ inside			
			[mm]	[mm]	[mm]		[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kgm ²]	[kgm ²]		
AC 2.6...F2K	2	8	263.5	244.5	10.5	6	263	55	78	65	33	38	3	42	-	104	0.012	0.015	4.7			
	1	10	314.3	295.3	10.5	8	266	55	78	65	10	38	3	42	-	104	0.021	0.015	5.1			
	1	11.5	352.4	333.4	10.5	8	266	55	78	65	10	38	3	42	-	104	0.026	0.015	5.3			
AC 2.7...F2K	1	8	263.5	244.5	10.5	6	219	55	78	65	4	37	5	40	-	102	0.013	0.012	4.7			
	1	10	314.3	295.3	10.5	8	219	55	78	65	4	37	5	40	-	102	0.029	0.012	5.4			
	1	11.5	352.4	333.4	10.5	8	219	55	78	65	4	37	5	40	-	102	0.046	0.012	6.0			
AC 3...F2K	1	10	314.3	295.3	10.5	8	291	55	78	65	16	52	5	59	-	121	0.029	0.027	6.8			
	1	11.5	352.4	333.4	10.5	8	291	55	78	65	16	52	5	59	-	121	0.036	0.027	7.0			
AC 4.1...F2K	2	10	314.3	295.3	10.5	8	320	75	112	95	56	56	-	59	13	152	0.041	0.057	11.1			
	1	11.5	352.4	333.4	10.5	8	320	75	112	95	16	70	-	59	-	152	0.058	0.057	11.7			
	1	14	466.7	438.2	13.0	8	320	75	112	95	16	70	-	59	-	152	0.090	0.057	12.5			
AC 4.9...F2K	1	11.5	352.4	333.4	10.5	8	320	85	127	95	16	77	-	79	-	172	0.063	0.084	14.8			
	1	14	466.7	438.2	13.0	8	320	85	127	95	16	77	-	79	-	172	0.096	0.084	15.7			
AC 5.1...F2K	2	11.5	352.4	333.4	10.5	8	354	85	127	95	54	65	-	68	20.5	161	0.055	0.106	15.3			
	1	14	466.7	438.2	13.0	8	354	85	127	95	15	65	-	68	-	161	0.155	0.106	17.5			
AC 6.1...F2K	1	14	466.7	438.2	13.0	8	420	110	165	95	18	80	-	82	-	174	0.174	0.251	24.7			
	1	16	517.5	489.0	13.0	8	420	110	165	95	18	80	-	82	-	174	0.318	0.251	27.2			
	1	18	571.5	542.9	17.0	6	420	110	165	95	18	80	-	82	-	174	0.494	0.251	29.6			
AC 6.5...F2K	1	14	466.7	438.2	13.0	8	423	130	190	119	16	90	-	92	-	209	0.241	0.392	43.8			
	1	18	571.5	542.9	17.0	6	423	130	190	119	16	90	-	92	-	209	1.262	0.392	54.1			
AC 7...F2K	2	14	466.7	438.2	13.0	8	466	130	190	119	85	85	3	87	27	204	0.284	0.487	38.8			
	1	16	517.5	489.0	13.0	8	466	130	190	119	27	85	3	87	-	204	0.390	0.487	40.6			
	1	18	571.5	542.9	17.0	6	466	130	190	119	18	85	3	87	-	204	0.477	0.487	41.6			
AC 7.5...F2K	2	14	466.7	438.2	13.0	8	478	130	190	119	100	115	-	120	15	237	1.351	1.947	64.9			
AC 8...F2K	1	18	571.5	542.9	17.0	12	515	155	227	162	18	84	0	84	-	245	0.472	0.931	59.6			
	1	21	673.1	641.4	17.0	12	515	155	227	162	18	84	0	84	-	245	0.967	0.931	64.7			
AC 9...F2K	1	18	571.5	542.9	17.0	12	562	75	165	240	140	35	92	0	103	-	237	0.690	1.197	67.4		
	1	21	673.1	641.4	17.0	12	562	75	165	240	140	20	92	0	103	-	237	1.316	1.201	74.2		
AC 10.2...F2K	2	18	571.5	542.9	17.0	12	580	90	165	240	200	104	104	2.5	107	16	302	0.671	1.644	78.3		
	1	21	673.1	641.4	17.0	12	580	90	165	240	200	26	104	2.5	107	-	302	1.260	1.644	84.3		
AC 11...F2K	2	21	673.1	641.4	17.0	12	682	90	200	300	210	85	111	0	107	15	312	3.725	3.655	152		
	1	24	733.4	692.2	21.0	12	682	90	200	300	210	20	111	0	107	-	312	4.620	3.655	159		
AC 11.7...F2K	2	21	673.1	641.4	17.0	24	682	90	200	300	250	114	140	0	136	15	381	4.489	4.388	179		
	1	24	733.4	692.2	21.0	24	682	90	200	300	250	20	140	0	136	-	381	5.314	4.388	186		
AC 12...F2K	1	-	860.0	820.0	20.0	32	776	90	260	390	255	27	135	-	137	-	385	9.925	11.80	317		
	1	-	920.0	880.0	20.0	32	776	90	260	390	255	27	136	-	137	-	385	12.48	11.80	329		
	1	-	995.0	950.0	22.0	32	870	90	260	390	255	27	136	-	137	-	385	18.67	11.80	358		

i Other flange and length dimensions on request.

Ordering example

Coupling size	Element version acc. to 'Technical data'	Version for element changing	Flange connection size acc. to SAE J 620 (AC 12: D ₁)	Mounting length L _F in mm
AC 9	NN.	F2K.	18.	237

Coupling designation: AC 9 NN. F2K. 18. 237

ARCUSAFLEX®

Type AC...F2K

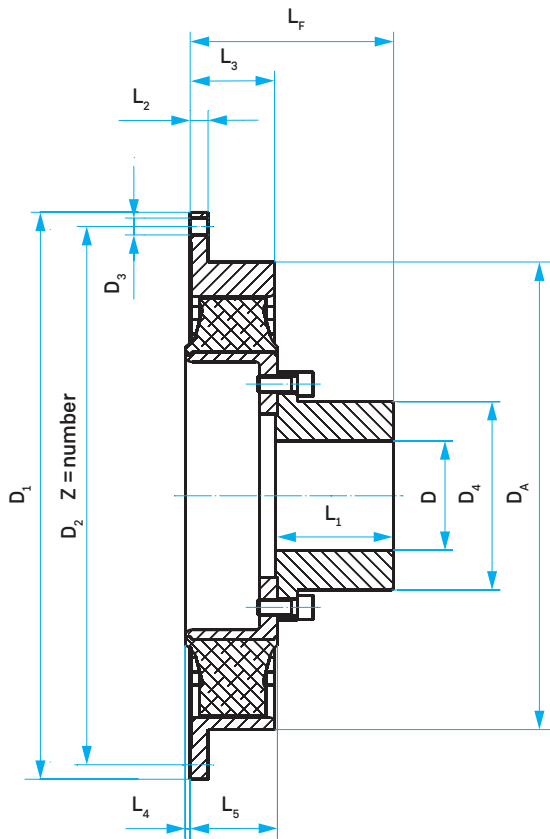


Fig. 1

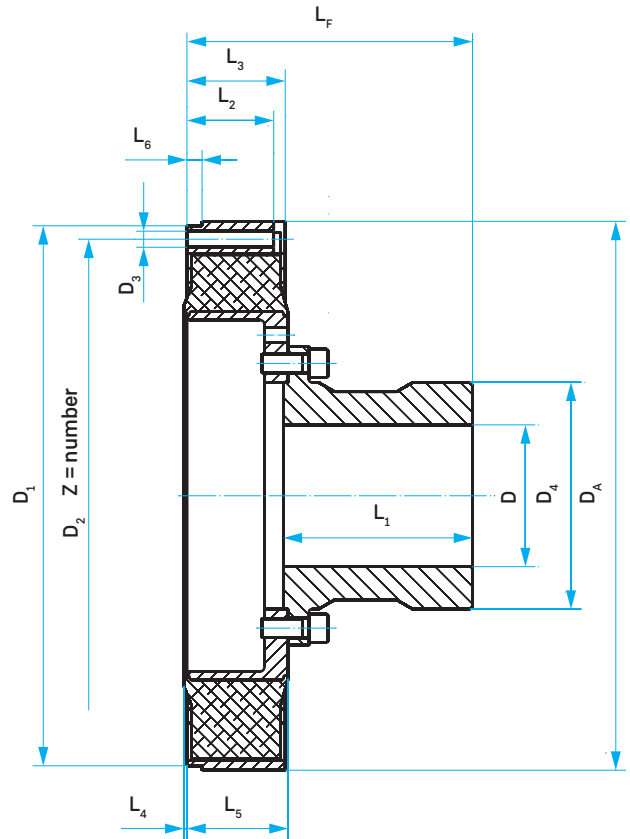


Fig. 2

INCH DIMENSIONS

Coupling details

Coupling size	Flange connection to SAE J 620							unbored and centred													Total weight [lb]
	Fig.	SAE size	D ₁	D ₂	D ₃	Z	D _A	D min.	D max.	D ₄	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L _F	J ₁ outside	J ₂ inside		
			[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[in]	[lb-in ²]	[lb-in ²]	
AC 2.6...F2K	2	8	10.375	9.625	0.413	6	10.35		2.17	3.07	2.56	1.30	1.50	0.12	1.65	-	4.09	41.0	51.3	10.4	
	1	10	12.375	11.625	0.413	8	10.47		2.17	3.07	2.56	0.39	1.50	0.12	1.65	-	4.09	71.8	51.3	11.3	
	1	11.5	13.875	13.125	0.413	8	10.47		2.17	3.07	2.56	0.39	1.50	0.12	1.65	-	4.09	88.9	51.3	11.7	
AC 2.7...F2K	1	8	10.375	9.625	0.413	6	8.62		2.17	3.07	2.56	0.16	1.46	0.20	1.57	-	4.02	44.4	41.0	10.4	
	1	10	12.375	11.625	0.413	8	8.62		2.17	3.07	2.56	0.16	1.46	0.20	1.57	-	4.02	99.1	41.0	11.9	
	1	11.5	13.875	13.125	0.413	8	8.62		2.17	3.07	2.56	0.16	1.46	0.20	1.57	-	4.02	157.2	41.0	13.2	
AC 3...F2K	1	10	12.375	11.625	0.413	8	11.46		2.17	3.07	2.56	0.63	2.05	0.20	2.32	-	4.76	99.1	92.3	15.0	
	1	11.5	13.875	13.125	0.413	8	11.46		2.17	3.07	2.56	0.63	2.05	0.20	2.32	-	4.76	123.0	92.3	15.5	
AC 4.1...F2K	2	10	12.375	11.625	0.413	8	12.60		2.95	4.41	3.74	2.20	2.20	-	2.32	0.51	5.98	140.1	194.8	24.5	
	1	11.5	13.875	13.125	0.413	8	12.60		2.95	4.41	3.74	0.63	2.76	-	2.32	-	5.98	198.2	194.8	25.8	
	1	14	18.375	17.250	0.512	8	12.60		2.95	4.41	3.74	0.63	2.76	-	2.32	-	5.98	307.6	194.8	27.6	
AC 4.9...F2K	1	11.5	13.875	13.125	0.413	8	12.60		3.35	5.00	3.74	0.63	3.03	-	3.11	-	6.77	215.3	287.0	32.7	
	1	14	18.375	17.250	0.512	8	12.60		3.35	5.00	3.74	0.63	3.03	-	3.11	-	6.77	328.1	287.0	34.7	
AC 5.1...F2K	2	11.5	13.875	13.125	0.413	8	13.94		3.35	5.00	3.74	2.13	2.56	-	2.68	0.81	6.34	187.9	362.2	33.8	
	1	14	18.375	17.250	0.512	8	13.94		3.35	5.00	3.74	0.59	2.56	-	2.68	-	6.34	529.7	362.2	38.6	
AC 6.1...F2K	1	14	18.375	17.250	0.512	8	16.54		4.33	6.50	3.74	0.71	3.15	-	3.23	-	6.85	594.6	857.7	54.5	
	1	16	20.375	19.250	0.512	8	16.54		4.33	6.50	3.74	0.71	3.15	-	3.23	-	6.85	1086.7	857.7	60.0	
	1	18	22.500	21.375	0.669	6	16.54		4.33	6.50	3.74	0.71	3.15	-	3.23	-	6.85	1688.1	857.7	65.3	
AC 6.5...F2K	1	14	18.375	17.250	0.512	8	16.65		5.12	7.48	4.69	0.63	3.54	-	3.62	-	8.23	823.5	1339.5	96.7	
	1	18	22.500	21.375	0.669	6	16.65		5.12	7.48	4.69	0.63	3.54	-	3.62	-	8.23	4312.5	1339.5	119.4	
AC 7...F2K	2	14	18.375	17.250	0.512	8	18.35		5.12	7.48	4.69	3.35	3.35	0.12	3.43	1.06	8.03	970.5	1664.2	85.6	
	1	16	20.375	19.250	0.512	8	18.35		5.12	7.48	4.69	1.06	3.35	0.12	3.43	-	8.03	1332.7	1664.2	89.6	
	1	18	22.500	21.375	0.669	6	18.35		5.12	7.48	4.69	0.71	3.35	0.12	3.43	-	8.03	1630.0	1664.2	91.8	
AC 7.5...F2K	2	14	18.375	17.250	0.512	8	18.82		5.12	7.48	4.69	3.94	4.53	-	4.72	0.59	9.33	4616.6	6653.2	143.2	
AC 8...F2K	1	18	22.500	21.375	0.669	12	20.28		6.10	8.94	6.38	0.71	3.31	0	3.31	-	9.65	1612.9	3181.4	131.5	
	1	21	26.500	25.250	0.669	12	20.28		6.10	8.94	6.38	0.71	3.31	0	3.31	-	9.65	3304.4	3181.4	142.8	
AC 9...F2K	1	18	22.500	21.375	0.669	12	22.13	2.95	6.50	9.45	5.51	1.38	3.62	0	4.06	-	9.33	2357.9	4090.4	148.8	
	1	21	26.500	25.250	0.669	12	22.13	2.95	6.50	9.45	5.51	0.79	3.62	0	4.06	-	9.33	4497.0	4104.0	163.8	
AC 10.2...F2K	2	18	22.500	21.375	0.669	12	22.83	3.54	6.50	9.45	7.87	4.09	4.09	0.10	4.21	0.63	11.89	2292.9	5617.8	172.8	
	1	21	26.500	25.250	0.669	12	22.83	3.54	6.50	9.45	7.87	1.02	4.09	0.10	4.21	-	11.89	4305.6	5617.8	186.1	
AC 11...F2K	2	21	26.500	25.250	0.669	12	26.85	3.54	7.87	11.81	8.27	3.35	4.37	0	4.21	0.59	12.28	12729.0	12489.8	334.6	
	1	24	28.875	27.250	0.827	12	26.85	3.54	7.87	11.81	8.27	0.79	4.37	0	4.21	-	12.28	15787.3	12489.8	350.7	
AC 11.7...F2K	2	21	26.500	25.250	0.669	24	26.85	3.54	7.87	11.81	9.84	4.49	5.51	0	5.35	0.59	15.00	15339.7	14994.6	394.6	
	1	24	28.875	27.250	0.827	24	26.85	3.54	7.87	11.81	9.84	0.79	5.51	0	5.35	-	15.00	18158.9	14994.6	410.7	
AC 12...F2K	1	-	33.858	32.283	0.787	32	30.55	3.54	10.24	15.35	10.04	1.06	5.31	-	5.39	-	15.16	33915.4	40312.4	698.7	
	1	-	36.220	34.646	0.787	32	30.55	3.54	10.24	15.35	10.04	1.06	5.35	-	5.39	-	15.16	42632.6	40312.4	726.3	
	1	-	39.173	37.402	0.866	32	34.25	3.54	10.24	15.35	10.04	1.06	5.35	-	5.39	-	15.16	63812.3	40312.4	789.7	

i Other flange and length dimensions on request.

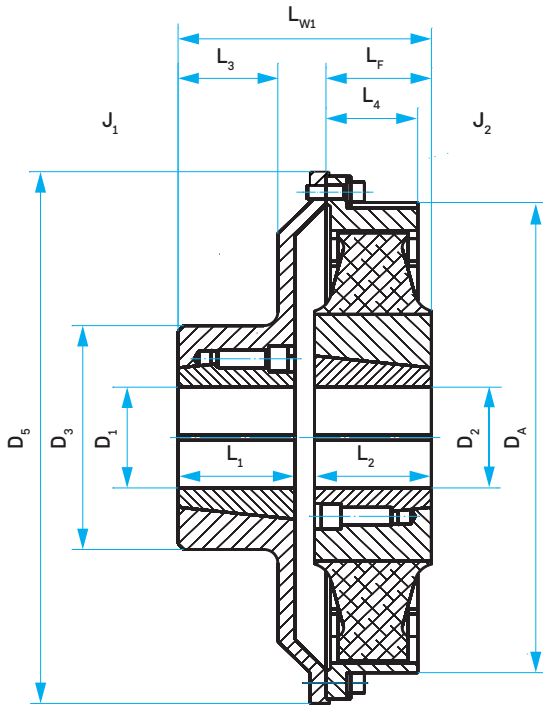
Ordering example

Coupling size	Element version acc. to 'Technical data'	Version for element changing	Flange connection size acc. to SAE J 620 (AC 12: D ₁)	Mounting length L _F in mm
AC 9	NN.	F2K.	18.	237

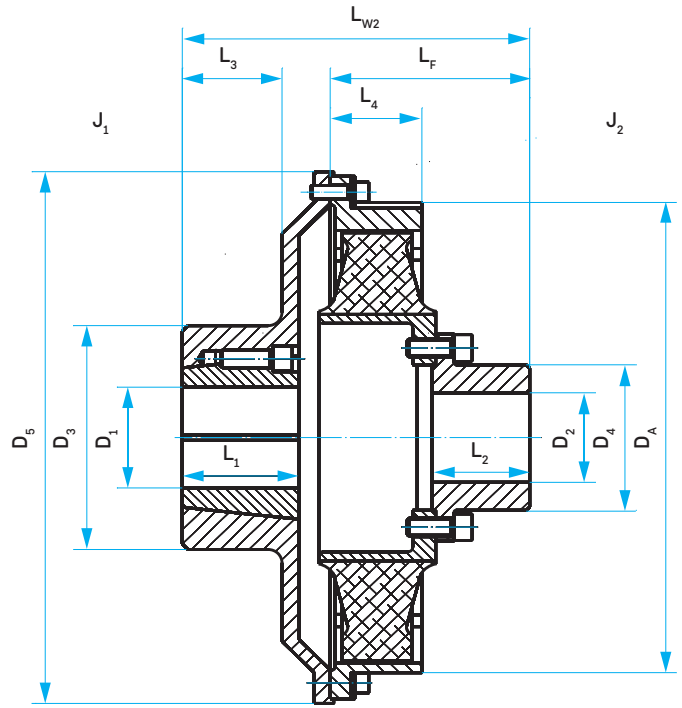
Coupling designation: AC 9 NN. F2K. 18. 237

ARCUSAFLEX®

Type AC-T...T and AC...TK



Type AC-T...T



Type AC...TK + TB-No. (for radial element change)

METRIC DIMENSIONS

Coupling details

Coupling size	Taper bushing		Taper bushing		D ₃ [mm]	D ₄ [mm]	D ₅ [mm]	D _A [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L _F [mm]	L _{W1} [mm]	L _{W2} [mm]	J ₁ [kgm ²]	J ₂ [kgm ²]	Total weight [kg]
	TB-No.	D ₁ max. [mm]	TB-No.	D ₂ max. [mm]														
AC-T 2.3...T	2012	48	2012	48	102	-	225	222	32	32	23	41	52	84	-	0.025	0.008	6.6
AC-T 2.6...T	2517	60	2517	60	105	-	325	263	45	45	42	38	42	115	-	0.130	0.017	14.6
AC-T 3...T	2517	60	2517	60	105	-	325	291	45	45	42	52	58	131	-	0.139	0.030	16.5
AC 3...TK	2517	60	-	55	105	78	325	290	45	65	42	52	121	-	194	0.139	0.027	15.9
AC-T 4...T	3030	75	3030	75	140	-	360	320	76	76	64	70	66	166	-	0.231	0.069	27.9
AC 4.1...TK	3030	75	-	75	140	112	360	320	76	95	64	70	152	-	250	0.231	0.057	25.7
AC-T 4.9...T	3535	90	3535	90	170	-	360	320	89	89	74	77	92	109	-	0.275	0.092	34.3
AC 4.9...TK	3535	90	-	85	170	127	360	320	89	95	74	77	172	-	289	0.275	0.084	33.4
AC-T 5...T	3535	90	3535	90	170	-	360	354	89	89	74	65	76	193	-	0.272	0.118	36.1
AC 5.1...TK	3535	90	-	85	170	127	360	354	89	95	74	65	161	-	278	0.272	0.106	34.0
AC-T 6...T	4545	110	4040	100	220	-	475	420	115	102	98	80	92	226	-	0.936	0.304	71.5
AC 6.1...TK	4545	110	-	110	220	165	475	420	115	95	98	80	174	-	308	0.936	0.251	64.7
AC-T 6.5...T	4545	110	4535	110	220	-	475	420	115	90	98	90	92	226	-	1.003	0.434	78.8
AC 6.5...TK	4545	110	-	130	220	190	475	420	115	119	98	90	209	-	343	1.003	0.392	75.8
AC-T 7...T	4545	110	4535	110	220	-	475	465	115	90	98	85	87	221	-	1.071	0.617	87.7
AC 7...TK	4545	110	-	130	220	190	475	465	115	119	98	85	204	-	338	1.071	0.487	79.3

Ordering example AC-T...T

Coupling size	Element version acc. to 'Technical data'	Version with separable flange	Taper bush nominal size and bore diameter D ₁	Taper bush nominal size and bore diameter D ₂
AC-T 6.5	.NN.	T.	4545. 110	4535. 85

Coupling designation: AC-T 6.5 .NN. T 4545. 110 – 4535. 85

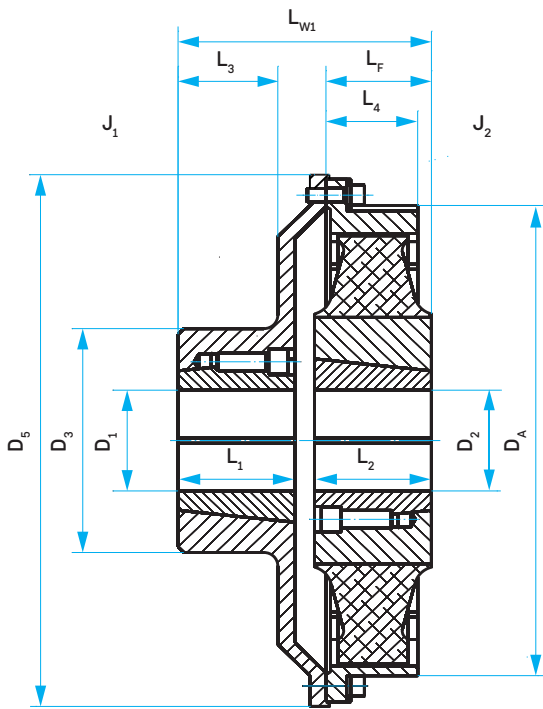
Ordering example AC...TK + TB-No.

Coupling size	Element version acc. to 'Technical data'	Version with separable flange for element changing	Nominal size of taper bush	Bore diameter D ₁
AC 6.1	.NN.	TK.	4545.	110

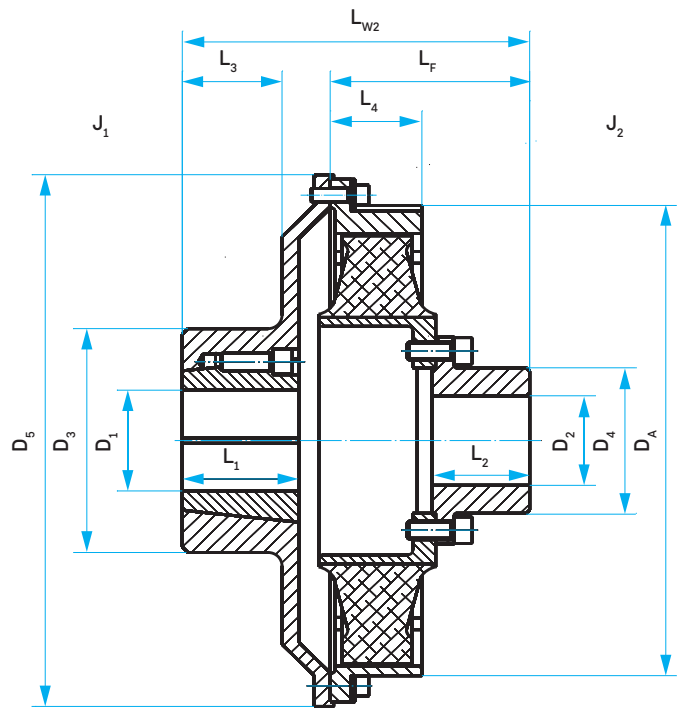
Coupling designation: AC 6.1 NN. TK. 4545. 110

ARCUSAFLEX®

Type AC-T...T and AC...TK



Type AC-T...T



Type AC...TK + TB-No. (for radial element change)

INCH DIMENSIONS

Coupling details

Coupling size	Taper bushing		Taper bushing		D ₃ [in]	D ₄ [in]	D ₅ [in]	D _A [in]	L ₁ [in]	L ₂ [in]	L ₃ [in]	L ₄ [in]	L _F [in]	L _{W1} [in]	L _{W2} [in]	J ₁ [lb-in ²]	J ₂ [lb-in ²]	Total weight [lb]
	TB-No.	D ₁ max. [in]	TB-No.	D ₂ max. [in]														
AC-T 2.3...T	2012	2	2012	2	4.016	-	8.86	8.74	1.26	1.26	0.91	1.61	2.05	3.31	-	85.4	27.3	14.6
AC-T 2.6...T	2517	2 1/2	2517	2 1/2	4.134	-	12.80	10.35	1.77	1.77	1.65	1.50	1.65	4.53	-	444.2	58.1	32.2
AC-T 3...T	2517	2 1/2	2517	2 1/2	4.134	-	12.80	11.46	1.77	1.77	1.65	2.05	2.28	5.16	-	475.0	102.5	36.4
AC 3...TK	2517	2 1/2	-	2	4.134	3.07	12.80	11.42	1.77	2.56	1.65	2.05	4.76	-	7.64	475.0	92.3	35.1
AC-T 4...T	3030	3	3030	3	5.512	-	14.17	12.60	2.99	2.99	2.52	2.76	2.60	6.54	-	789.4	235.8	61.6
AC 4.1...TK	3030	3	-	3	5.512	4.41	14.17	12.60	2.99	3.74	2.52	2.76	5.98	-	9.84	789.4	194.8	56.7
AC-T 4.9...T	3535	3 1/2	3535	3 1/2	6.693	-	14.17	12.60	3.50	3.50	2.91	3.03	3.62	4.29	-	939.7	314.4	75.7
AC 4.9...TK	3535	3 1/2	-	3 1/2	6.693	5.00	14.17	12.60	3.50	3.74	2.91	3.03	6.77	-	11.38	939.7	287.0	73.7
AC-T 5...T	3535	3 1/2	3535	3 1/2	6.693	-	14.17	13.94	3.50	3.50	2.91	2.56	2.99	7.60	-	929.5	403.2	79.7
AC 5.1...TK	3535	3 1/2	-	3 1/2	6.693	5.00	14.17	13.94	3.50	3.74	2.91	2.56	6.34	-	10.94	929.5	362.2	75.0
AC-T 6...T	4545	4 1/2	4040	4	8.661	-	18.70	16.54	4.53	4.02	3.86	3.15	3.62	8.90	-	3198.5	1038.8	157.8
AC 6.1...TK	4545	4 1/2	-	4 1/2	8.661	6.50	18.70	16.54	4.53	3.74	3.86	3.15	6.85	-	12.13	3198.5	857.7	142.8
AC-T 6.5...T	4545	4 1/2	4535	4 1/2	8.661	-	18.70	16.54	4.53	3.54	3.86	3.54	3.62	8.90	-	3427.4	1483.1	173.9
AC 6.5...TK	4545	4 1/2	-	5	8.661	7.48	18.70	16.54	4.53	4.69	3.86	3.54	8.23	-	13.50	3427.4	1339.5	167.3
AC-T 7...T	4545	4 1/2	4535	4 1/2	8.661	-	18.70	18.31	4.53	3.54	3.86	3.35	3.43	8.70	-	3659.8	2108.4	193.6
AC 7...TK	4545	4 1/2	-	5	8.661	7.48	18.70	18.31	4.53	4.69	3.86	3.35	8.03	-	13.31	3659.8	1664.2	175.0

Ordering example AC-T...T

Coupling size	Element version acc. to 'Technical data'	Version with separable flange	Taper bush nominal size and bore diameter D ₁	Taper bush nominal size and bore diameter D ₂
AC-T 6.5	.NN.	T.	4545. 110	4535. 85

Coupling designation: AC-T 6.5 .NN. T 4545. 110 – 4535. 85

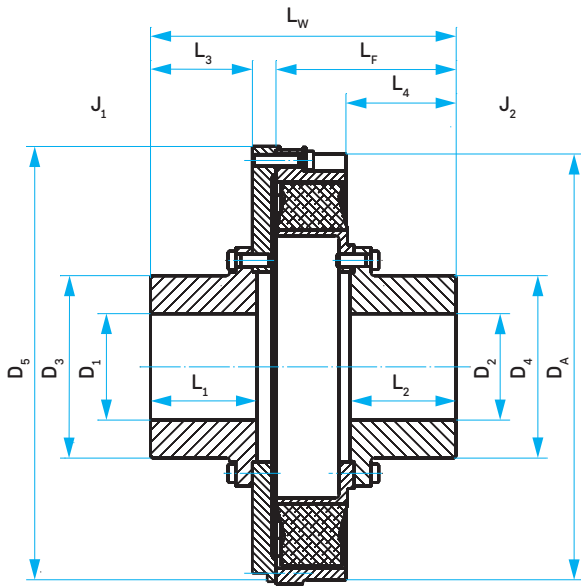
Ordering example AC...TK + TB-No.

Coupling size	Element version acc. to 'Technical data'	Version with separable flange for element changing	Nominal size of taper bush	Bore diameter D ₁
AC 6.1	.NN.	TK.	4545.	110

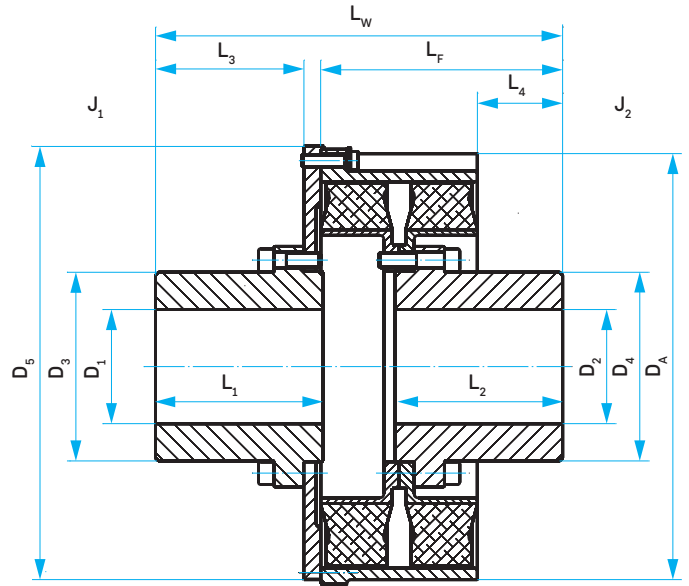
Coupling designation: AC 6.1 NN. TK. 4545. 110

ARCUSAFLEX®

Type AC...TK and AC...D TK



Type AC...TK (for radial element change)




Type AC...D TK (for radial element change)

METRIC DIMENSIONS

Coupling details


Coupling size	D ₁ max. [mm]	D ₂ max. [mm]	D ₃ [mm]	D ₄ [mm]	D ₅ [mm]	D _A [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L _F [mm]	L _W [mm]	J ₁ [kgm ²]	J ₂ [kgm ²]	Total weight [kg]
AC 7...TK	130	130	190	190	475	466	119	119	117	112	204	346	1.073	0.487	76.3
AC 8...TK	150	150	227	227	580	515	162	162	160	166	245	437	3.239	0.931	143
AC 8D...TK	150	150	227	227	580	525	226	226	202	142	314	543	3.938	1.751	209
AC 9...TK	150	150	240	240	580	562	140	140	134	145	237	393	3.024	1.197	141
AC 9D...TK	160	160	248	248	580	563	220	220	195	113	318	535	4.373	2.457	237
AC 10.2...TK	165	165	240	240	580	594	200	200	196	202	306	531	3.591	1.644	166
AC 11...TK	200	200	300	300	682	682	210	210	206	209	320	562	6.755	3.655	300
AC 12...TK	260	260	390	390	870	776	255	255	230	259	389	667	26.94	11.80	580

 Other sizes and types on request

Ordering example AC...TK

Coupling size Element version acc. to
'Technical data' Version with separable flange
for radial element changing


AC 8 .NN. TK.

 Coupling designation: AC 8 NN. TK

Ordering example AC...D TK

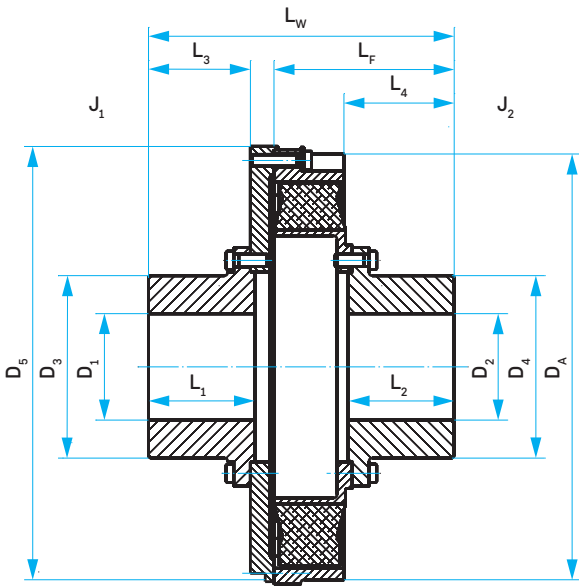
Coupling size Element version acc. to
'Technical data' Version with separable flange
for radial element changing

AC 8D .NN. TK.

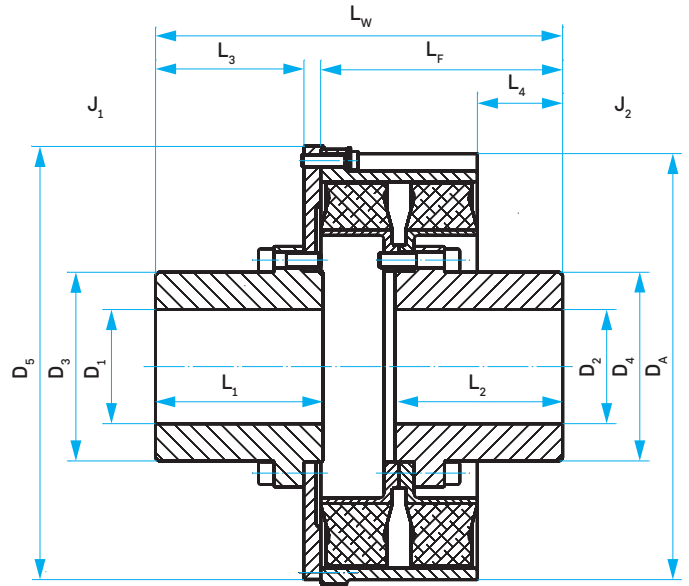
 Coupling designation: AC 8D .NN. TK

ARCUSAFLEX®

Type AC...TK and AC...D TK



Type AC...TK (for radial element change)




Type AC...D TK (for radial element change)

INCH DIMENSIONS

Coupling details


Coupling size	D ₁ max. [in]	D ₂ max. [in]	D ₃ [in]	D ₄ [in]	D ₅ [in]	D _A [in]	L ₁ [in]	L ₂ [in]	L ₃ [in]	L ₄ [in]	L _F [in]	L _W [in]	J ₁ [lb-in ²]	J ₂ [lb-in ²]	Total weight [lb]
AC 7...TK	5.12	5.12	7.480	7.48	18.70	18.35	4.69	4.69	4.61	4.41	8.03	13.62	3666.6	1664.2	168.4
AC 8...TK	5.91	5.91	8.937	8.94	22.83	20.28	6.38	6.38	6.30	6.54	9.65	17.20	11068.2	3181.4	316.5
AC 8D...TK	5.91	5.91	8.937	8.94	22.83	20.67	8.90	8.90	7.95	5.59	12.36	21.38	13456.8	5983.5	460.8
AC 9...TK	5.91	5.91	9.449	9.45	22.83	22.13	5.51	5.51	5.28	5.71	9.33	15.47	10333.5	4090.4	311.2
AC 9D...TK	6.30	6.30	9.764	9.76	22.83	22.17	8.66	8.66	7.68	4.45	12.52	21.06	14943.3	8396.0	523.1
AC 10.2...TK	6.50	6.50	9.449	9.45	22.83	23.39	7.87	7.87	7.72	7.95	12.05	20.91	12271.1	5617.8	365.7
AC 11...TK	7.87	7.87	11.811	11.81	26.85	26.85	8.27	8.27	8.11	8.23	12.60	22.13	23083.0	12489.8	661.0
AC 12...TK	10.24	10.24	15.354	15.35	34.25	30.55	10.04	10.04	9.06	10.20	15.31	26.26	92051.8	40312.4	1280.3

 Other sizes and types on request

Ordering example AC...TK

Coupling size Element version acc. to
'Technical data' Version with separable flange
for radial element changing


AC 8 .NN. TK.

 Coupling designation: AC 8 NN. TK

Ordering example AC...D TK

Coupling size Element version acc. to
'Technical data' Version with separable flange
for radial element changing

AC 8D .NN. TK.

 Coupling designation: AC 8D .NN. TK

ARCUSAFLEX®

Type AC...D F2

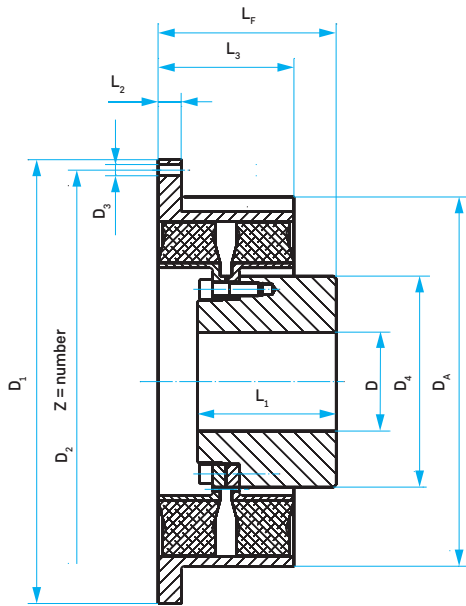


Fig. 1

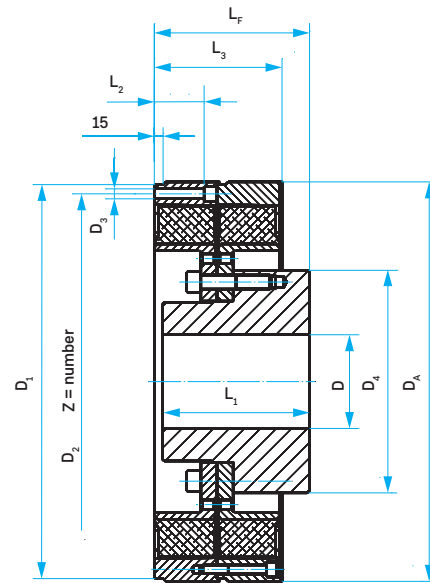


Fig. 2

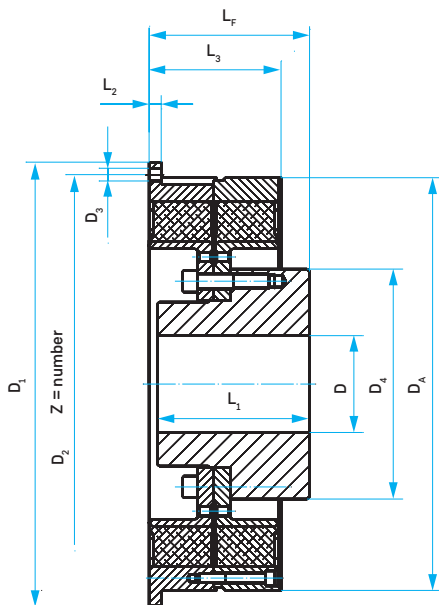


Fig. 3

METRIC DIMENSIONS

Coupling details

Coupling size	Fig.	Flange connection to SAE J 620															
		SAE size	D ₁ [mm]	D ₂ [mm]	D ₃ [mm]	Z	D _A [mm]	D		D ₄ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L _F [mm]	J ₁ outside [kgm ²]	J ₂ inside [kgm ²]	Total weight [kg]
								min. [mm]	max. [mm]								
AC 8D...F2	1	18	571.5	542.9	17.0	12	525	-	165	250	174	25	172	255	1.020	1.508	88.6
	1	21	673.1	641.4	17.0	12	525	-	165	250	174	18	172	255	1.540	1.508	94.0
AC 9D...F2	1	18	571.5	542.9	17.0	12	563	75	170	316	210	35	205	270	1.532	2.697	140
	1	21	673.1	641.4	17.0	12	563	75	170	316	210	25	205	270	2.271	2.697	148
AC 10.2D...F2	1	21	673.1	641.4	17.0	24	585	90	200	310	250	26	210	350	2.114	3.672	164
	1	24	733.4	692.2	21.0	12	585	90	200	310	250	26	210	350	2.732	3.672	170
AC 11D...F2	2	21	673.1	641.4	17.0	12	682	90	220	380	250	85	218	265	7.564	6.835	256
	1	24	733.4	692.2	21.0	12	682	90	220	380	250	20	218	265	2.662	6.835	210
AC 11.7D...F2	3	24	733.4	692.2	21.0	24	682	90	220	380	280	20	276	375	10.45	8.892	336

i Other flange and length dimensions on request

Ordering example

Coupling size	Element version acc. to 'Technical data'	Flange version	Flange connection size acc. to SAE J 620	Mounting length L _F in mm
AC 9D	NN.	F2.	18.	270

Coupling designation: AC 9D .NN. F2. 18. 270

ARCUSAFLEX®

Type AC...D F2

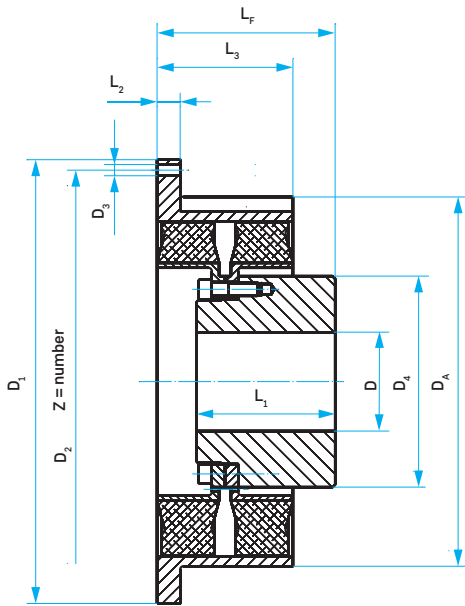


Fig. 1

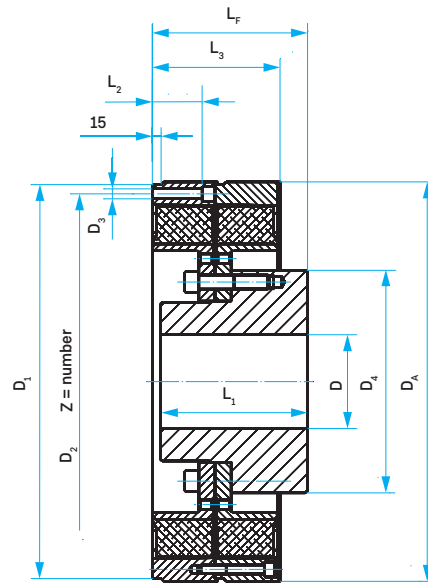


Fig. 2

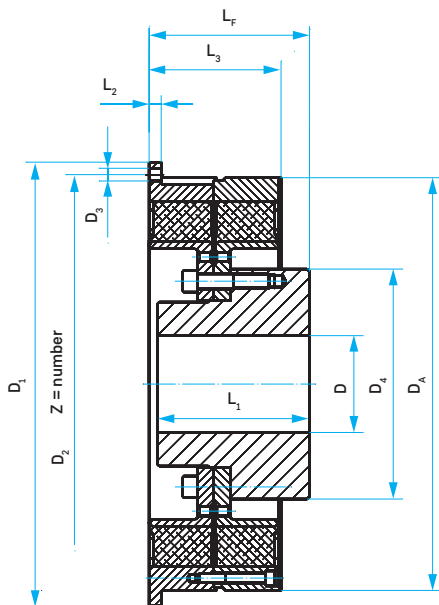


Fig. 3

INCH DIMENSIONS

Coupling details

Coupling size	Fig.	Flange connection to SAE J 620															
		SAE size	D ₁	D ₂	D ₃	Z	D _A	D		D ₄	L ₁	L ₂	L ₃	L _F	J ₁ outside	J ₂ inside	Total weight
			Inner sleeve	[in]	[in]	[in]	[in]	[in]	min. [in]	max. [in]	[in]	[in]	[in]	[in]	[in]	[lb-in ²]	[lb-in ²]
AC 8D...F2	1	18	22.500	21.375	0,669	12	20.67	-	6.50	9.84	6.85	0.98	6.77	10.04	3485.5	5153.1	195.5
	1	21	26.500	25.250	0,669	12	20.67	-	6.50	9.84	6.85	0.71	6.77	10.04	5262.4	5153.1	207.5
AC 9D...F2	1	18	22.500	21.375	0,669	12	22.17	2.95	6.69	12.44	8.27	1.38	8.07	10.63	5235.1	9216.1	308.1
	1	21	26.500	25.250	0,669	12	22.17	2.95	6.69	12.44	8.27	0.98	8.07	10.63	7760.4	9216.1	325.5
AC 10.2D...F2	1	21	26.500	25.250	0,669	24	23.03	3.54	7.87	12.20	9.84	1.02	8.27	13.78	7223.9	12547.9	362.8
	1	24	28.875	27.250	0,827	12	23.03	3.54	7.87	12.20	9.84	1.02	8.27	13.78	9335.7	12547.9	374.1
AC 11D...F2	2	21	26.500	25.250	0,669	12	26.85	3.54	8.66	14.96	9.84	3.35	8.58	10.43	25847.5	23356.4	565.7
	1	24	28.875	27.250	0,827	12	26.85	3.54	8.66	14.96	9.84	0.79	8.58	10.43	9096.5	23356.4	462.4
AC 11.7D...F2	3	24	28.875	27.250	0,827	24	26.85	3.54	8.66	14.96	11.02	0.79	10.87	14.76	35709.5	30385.5	742.2

i Other flange and length dimensions on request

Ordering example

Coupling size	Element version acc. to 'Technical data'	Flange version	Flange connection size acc. to SAE J 620	Mounting length L _F in mm
AC 9D	NN.	F2.	18.	270

Coupling designation: AC 9D .NN. F2. 18. 270

ARCUSAFLEX®

Type AC...D F2K

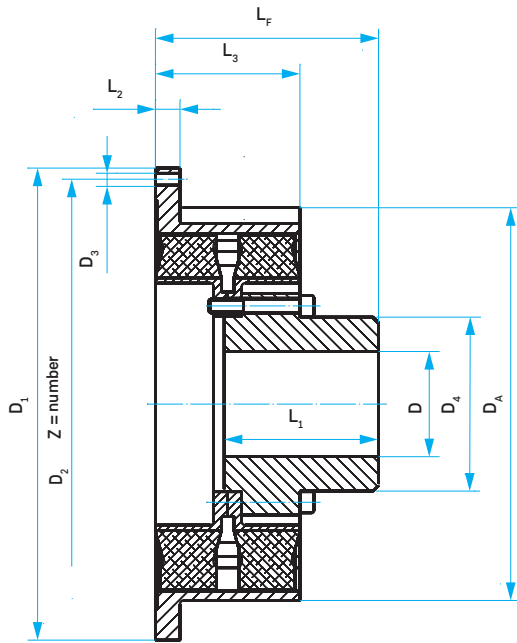


Fig. 1

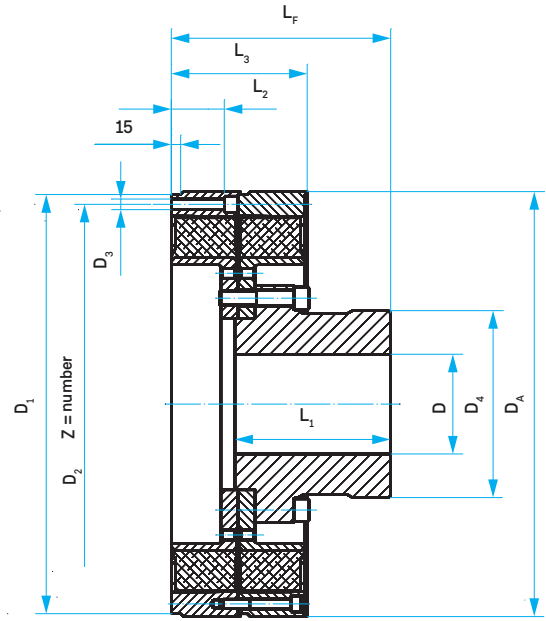


Fig. 2

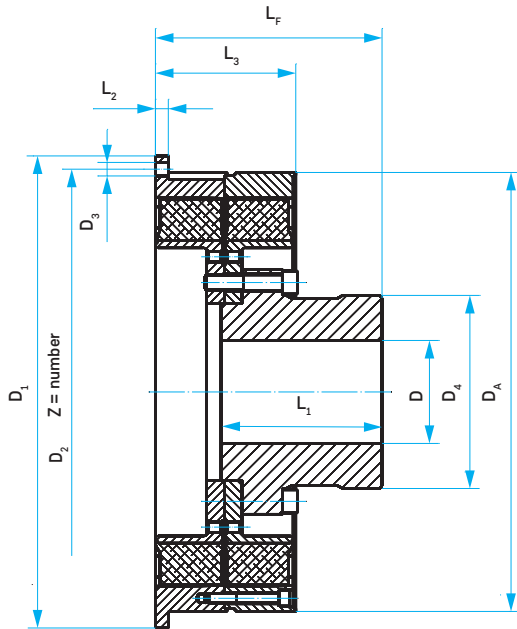


Fig. 3

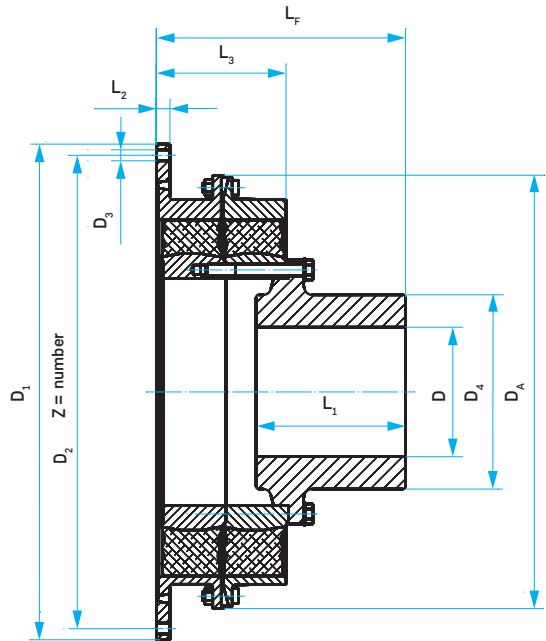


Fig. 4

METRIC DIMENSIONS

Coupling details

Coupling size	Fig.	Flange connection to SAE J 620															
		SAE size	D ₁ [mm]	D ₂ [mm]	D ₃ [mm]	Z	D _A [mm]	D		D ₄ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L _F [mm]	J ₁ outside [kgm ²]	J ₂ inside [kgm ²]	Total weight [kg]
								min. [mm]	max. [mm]								
AC 8D...F2K	1	18	571.5	542.9	17.0	12	525	-	155	227	226	25	172	307	1.020	1.751	108
	1	21	673.1	641.4	17.0	12	525	-	155	227	226	18	172	307	1.540	1.751	113
AC 9D...F2K	1	18	571.5	542.9	17.0	12	563	75	160	248	220	35	205	318	1.532	2.457	132
	1	21	673.1	641.4	17.0	12	563	75	160	248	220	25	205	318	2.271	2.457	139
AC 10.2D...F2K	1	21	673.1	641.4	17.0	24	585	90	160	240	250	26	210	350	2.114	3.132	147
	1	24	733.4	692.2	21.0	12	585	90	160	240	250	26	210	350	2.732	3.132	153
AC 11D...F2K	2	21	673.1	641.4	17.0	12	682	90	200	300	250	85	218	352	7.564	6.431	252
	1	24	733.4	692.2	21.0	12	682	90	200	300	250	20	218	352	2.662	6.431	205
AC 11.7D...F2K	3	24	733.4	692.2	21.0	24	682	90	200	300	280	20	276	405	10.45	7.862	310
AC 12D...F2K	4	-	860.0	820.0	22.0	32	870	90	260	390	300	19	258	496	22.01	18.10	495
	4	-	920.0	880.0	20.0	32	870	90	260	390	300	27	266	500	25.51	18.10	514
	4	-	995.0	950.0	22.0	32	870	90	260	390	300	27	266	500	30.30	18.10	535

i Other flange and length dimensions on request

Ordering example

Coupling size	Element version acc. to 'Technical data'	Version for element changing	Flange connection size acc. to SAE J 620 (AC 12: D ₁)	Mounting length L _F in mm
---------------	--	------------------------------	--	--------------------------------------

AC 10.2D	NN.	F2K.	21.	350
----------	-----	------	-----	-----

Coupling designation: AC 10.2D .NN. F2K. 21. 350

ARCUSAFLEX®

Type AC...D F2K

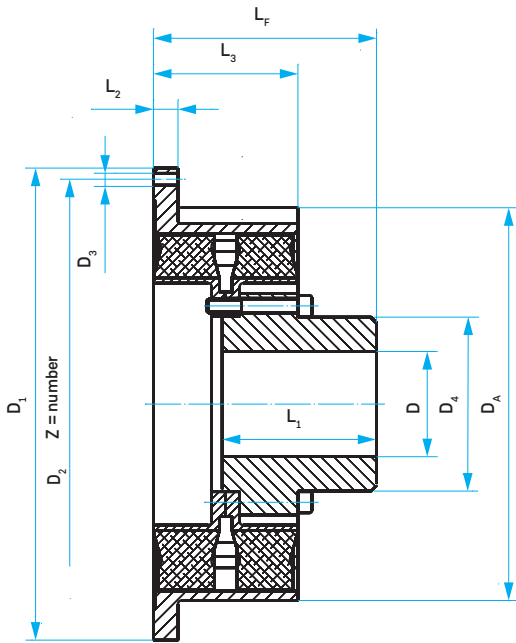


Fig. 1

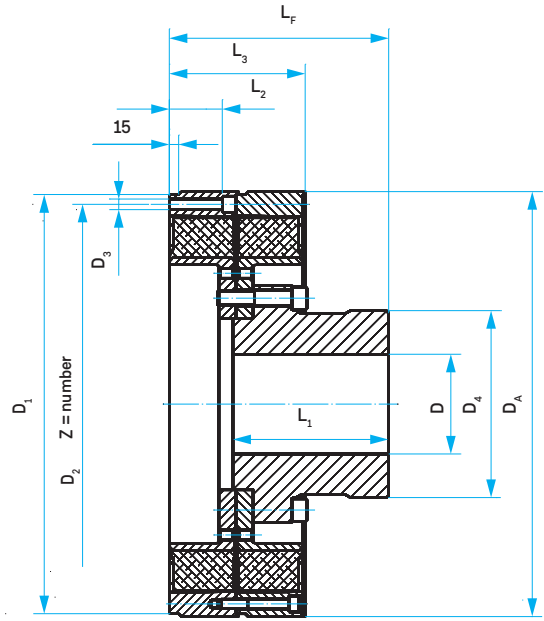


Fig. 2

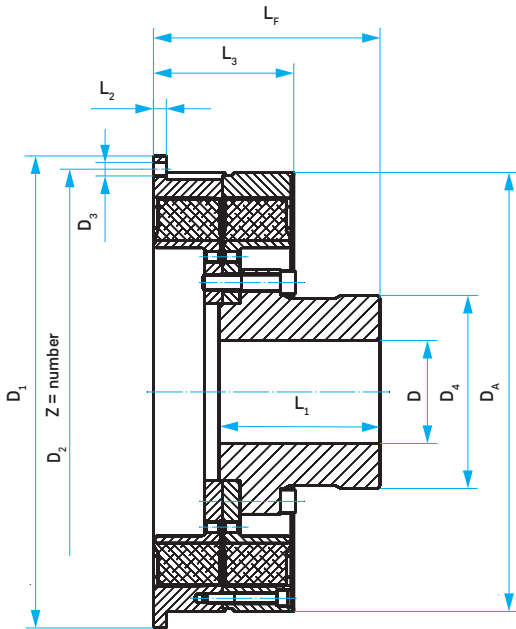


Fig. 3

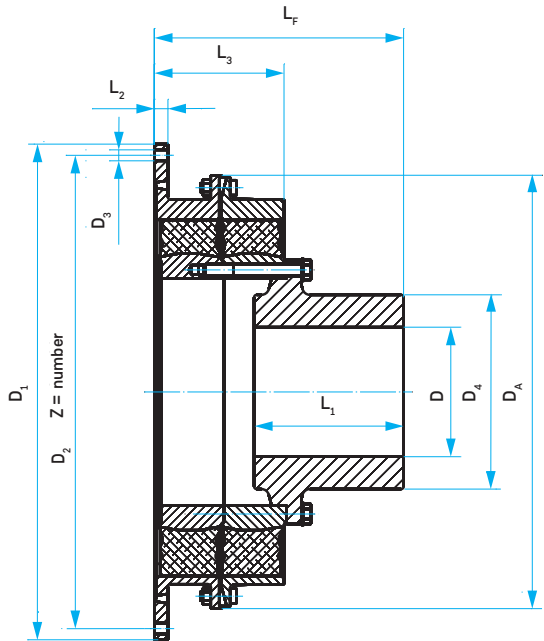


Fig. 4

INCH DIMENSIONS

Coupling details

Coupling size	Fig.	Flange connection to SAE J 620										L _F	J ₁ outside	J ₂ inside	Total weight		
		SAE	D ₁	D ₂	D ₃	Z	D _A	D		D ₄	L ₁					L ₂	L ₃
		size	[in]	[in]	[in]		[in]	min. [in]	max. [in]	[in]	[in]					[in]	[in]
AC 8D...F2K	1	18	22.500	21.375	0.669	12	20.67	-	6.10	8.94	8.90	0.98	6.77	12.09	3485.5	5983.5	237.7
	1	21	26.500	25.250	0.669	12	20.67	-	6.10	8.94	8.90	0.71	6.77	12.09	5262.4	5983.5	249.6
AC 9D...F2K	1	18	22.500	21.375	0.669	12	22.17	2.95	6.30	9.76	8.66	1.38	8.07	12.52	5235.1	8396.0	290.2
	1	21	26.500	25.250	0.669	12	22.17	2.95	6.30	9.76	8.66	0.98	8.07	12.52	7760.4	8396.0	307.7
AC 10.2D...F2K	1	21	26.500	25.250	0.669	24	23.03	3.54	6.30	9.45	9.84	1.02	8.27	13.78	7223.9	10702.6	325.3
	1	24	28.875	27.250	0.827	12	23.03	3.54	6.30	9.45	9.84	1.02	8.27	13.78	9335.7	10702.6	336.6
AC 11D...F2K	2	21	26.500	25.250	0.669	12	26.85	3.54	7.87	11.81	9.84	3.35	8.58	13.86	25847.5	21975.8	555.7
	1	24	28.875	27.250	0.827	12	26.85	3.54	7.87	11.81	9.84	0.79	8.58	13.86	9096.5	21975.8	452.7
AC 11.7D...F2K	3	24	28.875	27.250	0.827	24	26.85	3.54	7.87	11.81	11.02	0.79	10.87	15.94	35709.5	26865.8	684.6
AC 12D...F2K	4	-	33.858	32.283	0.866	32	34.25	3.54	10.24	15.35	11.81	0.75	10.16	19.53	75212.0	61844.0	1093.1
	4	-	36.220	34.646	0.787	32	34.25	3.54	10.24	15.35	11.81	1.06	10.47	19.69	87185.7	61844.0	1133.3
	4	-	39.173	37.402	0.866	32	34.25	3.54	10.24	15.35	11.81	1.06	10.47	19.69	103536.9	61844.0	1179.9

i Other flange and length dimensions on request

Ordering example

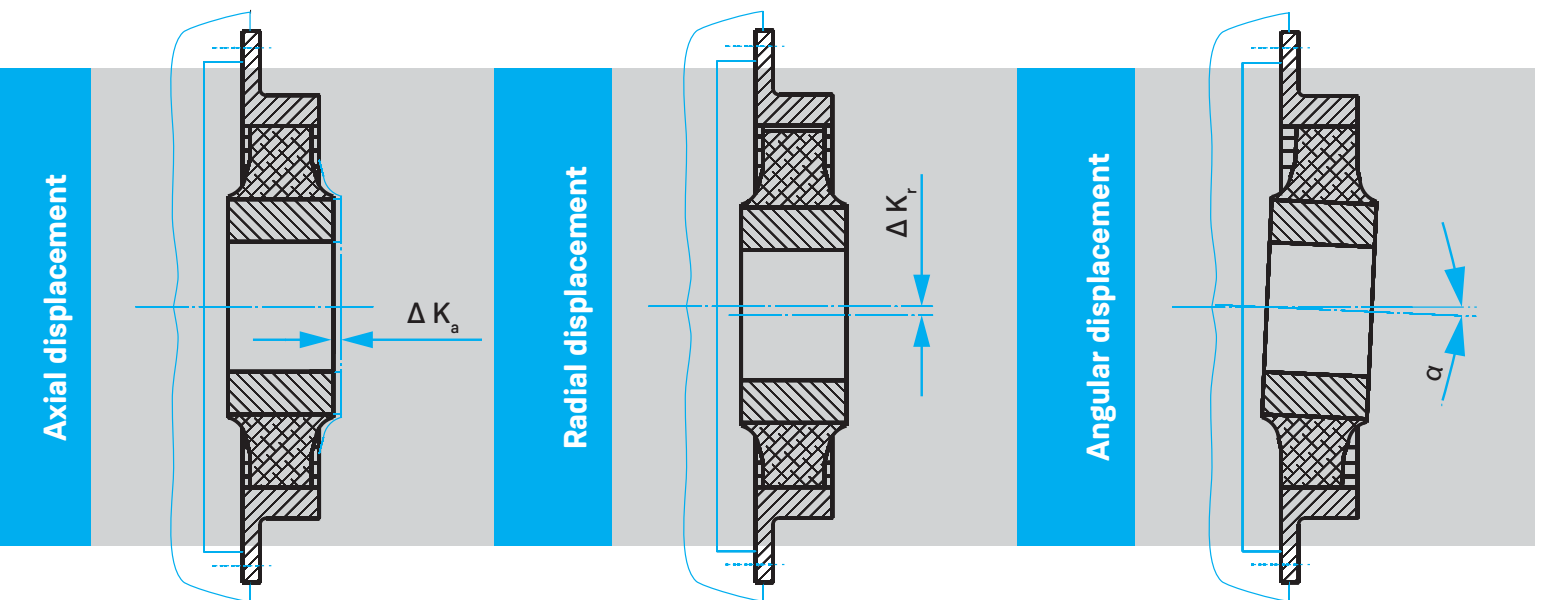
Coupling size	Element version acc. to 'Technical data'	Version for element changing	Flange connection size acc. to SAE J 620 (AC 12: D ₁)	Mounting length L _F in mm
AC 10.2D	NN.	F2K.	21.	350

Coupling designation: AC 10.2D .NN. F2K. 21. 350

ARCUSAFLEX®

Permissible shaft displacement

The permissibility of major shaft displacements depends on a number of factors such as coupling size, shore hardness of the element, operating speed and torque load of the coupling. The following reference values refer to an operating speed of $\approx 1500 \text{ min}^{-1}$. Precise alignment prevents premature wear of the rubber element. Observe the operating instructions.



Technical specifications

Coupling size		1,5	2,3	2,6	3	4 4.1	4,9	5 5.1	6 6.1	6,5	7	7,5	8 8D	9 9D	10 10D	11/11D 11,7/11,7D 11.9	12 12D
Permissible axial displacement *)	ΔK_a	[mm] ± 2.5	± 3	± 4	± 7	$+16/-6$	± 7	± 5	± 7	± 4	± 10	± 7	± 5	± 4	± 3	± 4	± 3
		[in] ± 0.098	± 0.118	± 0.157	± 0.275	$+0.630$ -0.236	± 0.275	± 0.197	± 0.275	± 0.157	± 0.394	± 0.275	± 0.197	± 0.157	± 0.118	± 0.157	± 0.118
Permissible radial displacement	ΔK_r	[mm] 0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.5	1.5	1.5	1.5
		[in] 0.031	0.047	0.047	0.047	0.047	0.047	0.047	0.051	0.051	0.051	0.051	0.055	0.059	0.059	0.059	0.059
Permissible angular displacement	α	[°] 0.5°	0.5°	0.5°	0.5°	0.5°	0.5°	0.5°	0.4°	0.4°	0.4°	0.4°	0.4°	0.4°	0.3°	0.3°	0.3°

i *) For types AC...F2K and AC...TK the axial fitting length L_F of the coupling should always offer a plus tolerance within the possible tolerance range in order to reach max. axial movability of the dismantled coupling element.

i Larger displacements of short duration, as may occur when starting and stopping the diesel engine, are permissible. These maximum displacements must not occur simultaneously.

Data Required for Coupling Size Selection

General

1. Project: _____
2. Application (combined heat and power unit, emergency power generator, fire pump, ...): _____
3. Operating mode (continuous operation, emergency power operation, ...): _____
4. Place of operation/location: _____ Ambient temperature: T_U _____ [°C]
5. Certification/class/requisite rules for selecting the coupling size: _____

Engine side

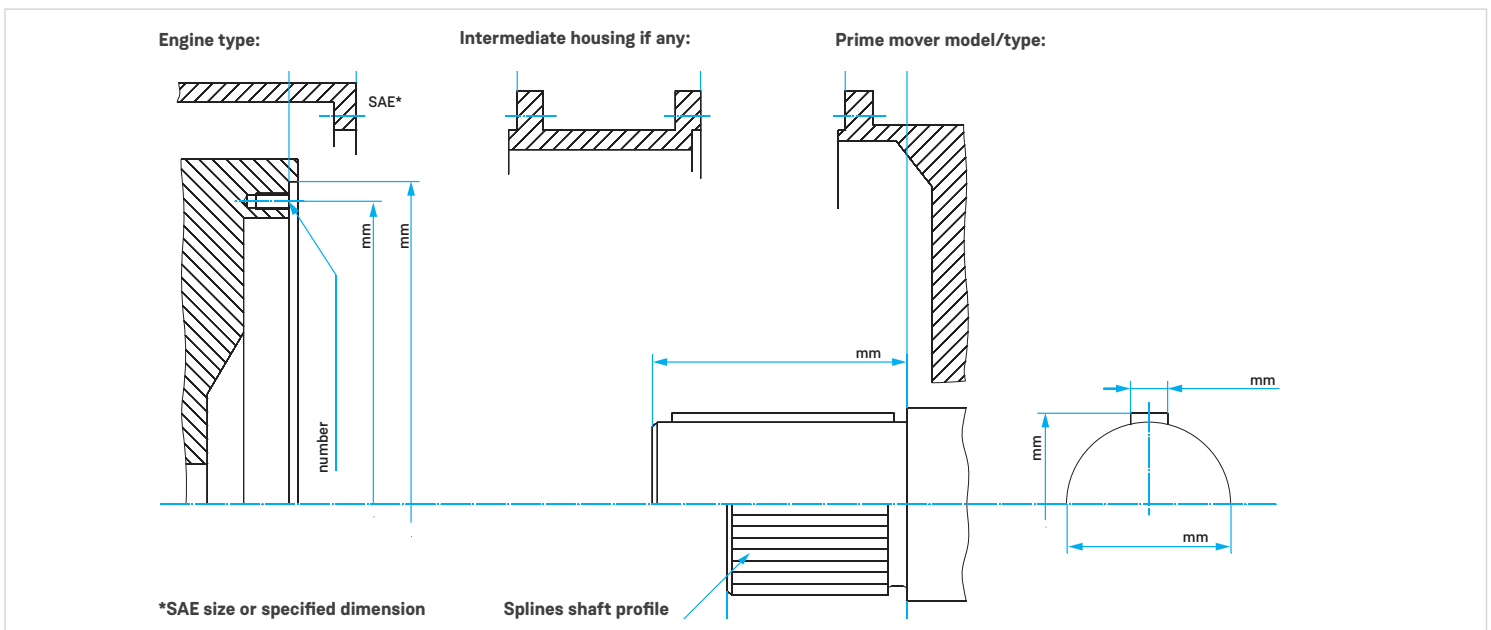
1. Engine (manufacturer, designation/type): _____ Diesel Gas
2. Engine power (nominal operation): P _____ [kW]
3. Engine speed (nominal speed): n _____ [min⁻¹]
4. Idling speed available? yes no
 If adjustable from: n _____ [min⁻¹] to _____ [min⁻¹]
5. If variable speed operation, speed range from: n _____ [min⁻¹] to _____ [min⁻¹]
 ! Please attach corresponding speed/torque/power diagram.
6. Total stroke volume: V_H _____ [ccm] R/V (angle): _____ Number of cylinders: _____
7. Moments of inertia engine incl. damper without flywheel: J _____ [kgm²]
 Moments of inertia flywheel: J _____ [kgm²]
 Total moments of inertia of the engine (incl. damper, flywheel, etc.): J _____ [kgm²]

Output side

1. Type (generator, pump transfer case, pump, compressor, ...): _____
2. Type (manufacturer, designation): _____
3. Moments of inertia: J _____ [kgm²]
4. Connection dimensions (D x L, toothed shaft (standard), flange, ...): _____

! For branched systems: System sketch with details of the individual inertias (with details of the reference speed) and transmission ratios.

If the prime mover is to be flange-mounted to the motor with an intermediate housing, we require the following to determine an optimum mounting position; specified details and dimensions as in the following sketch:











ARCUSAFLEX®


SIMPLY **POWERFUL.** 

Industrial solutions:


-  Power generation
-  Mobile applications
-  Test benches
-  Pumps & compressors
-  Industry
-  Ship & port engineering

Headquarter:

Dipl.-Ing. Herwarth Reich GmbH
Vierhausstraße 53 · 44807 Bochum

 +49 234 959 16 - 0


 mail@reich-kupplungen.com

 www.reich-kupplungen.com

Reich USA Corporation
300 Route 17 South - Suite H
Mahwah, New Jersey 07430 USA

 201 68 49 40-0

 sales@reichusa.com

 www.reichusa.com

Copyright ISO 16016 to be observed:

The reproduction, distribution and utilization of this document as well as the communication of its contents to others without explicit authorization is prohibited. Offenders will be held liable for the payment of damages. All rights reserved in the event of the grant of a patent, utility model or design. © REICH - Dipl.-Ing. Herwarth Reich GmbH

March 2020 edition

The present ARCUSAFLEX® catalog edition renders parts of the previous ARCUSAFLEX® catalogs obsolete. All dimensions in millimeters. We reserve the right to change dimensions and/or design without prior notice. Texts and illustrations, dimensional and performance data have been compiled with the utmost care. There is no guarantee, however, that the information is accurate; in particular, there is no guarantee that products will match the illustrations in terms of technology, color, shape and configuration or that the products will correspond to the proportions of the illustrations. We also reserve the right to make changes due to printing errors or mistakes.