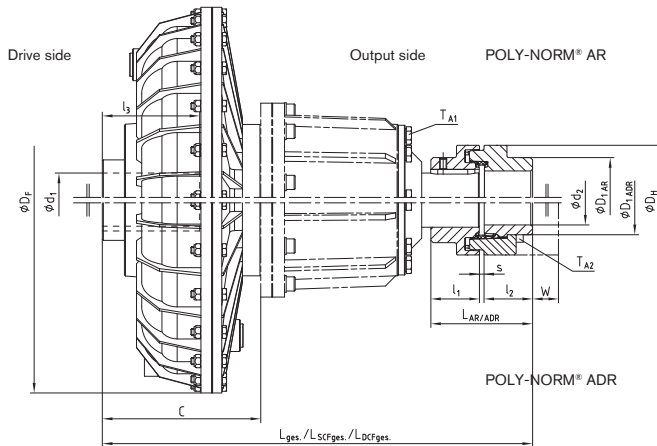


Fluid couplings ALFA

with POLY-NORM® AR/ADR (inner wheel drive) – STANDARD



— • • • — optionally: with small or large delay chamber (SCF / DCF)

Dimensions of adapter shaft S [mm]			
Size	d _s	L _s	T
10	19	35	25
20	24	44	32
30/30P	38	63	45
40P	48	76	55
50/55	55	92	65
60/65	60	110	80
70P/75P	70	122	90
80P/85P	80	145	110

Selection criteria:
 IEC standard motor: 4 poles 1500 rpm (50 Hz)
 Shock factor: 1.5 (moderate shocks)
 Ambient temperature: - 20 to + 40 °C
 Start-up frequency: < 10/h

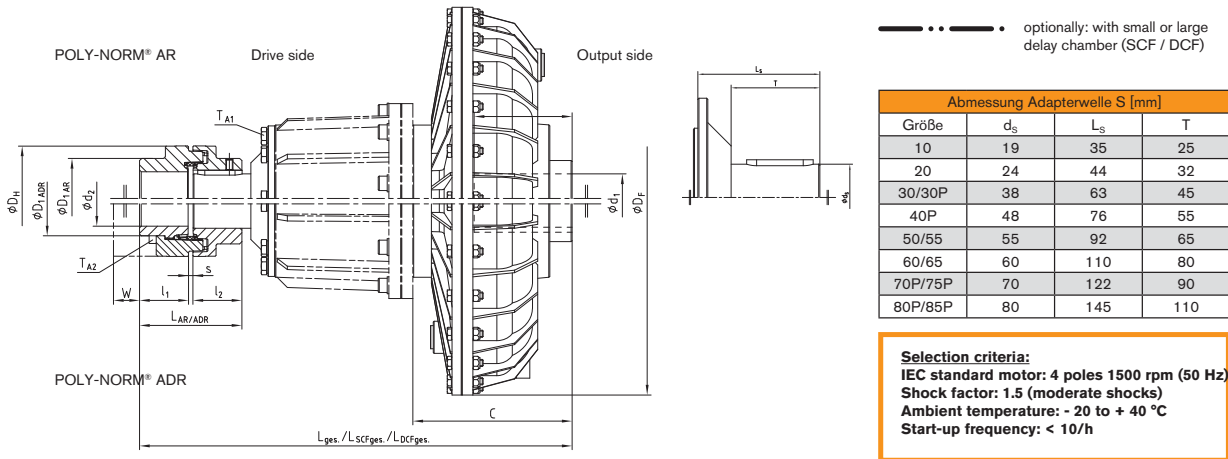
Fluid coupling ALFA K-S-[SCF/DCF]-AR/ADR																							
Size		Dimensions [mm]															T [Nm]						
FLK	POLY-NORM®	d ₁	d ₂ max		D _f	D ₁		D _H	l ₁ /l ₂	l ₃	S	L		C	L			W		T _{A1}	T _{A2}		
			AR	ADR		AR	ADR					AR	ADR		t.	SCF _t	DCF _t	AR	ADR		AR	ADR	
10	32	14								30													
		19	35	-	193	53	-	78	32	40	4	68	-	98	176	-	-	-	-	10,5	-	-	
		24								50													
20	32	19	35	-	230	53	-	78	32	40	4	68	-	125	205	-	-	-	-	25,0	-	-	
		24								50													
		28								60													
30	38	28	40	34	290	62	48	87	38	60	4	80	80	162	267	322	362	-	12	25,0	-	10	
		42								110													
		28								60													
30P	42	28	45	38	327	69	54	96	42	80	4	88	88	162	271	326	366	-	16	25,0	-	25	
		42								110													
		38								80													
40P	48	42	50	44	338	78	62	106	48	110	5	101	101	198	327	385	457	-	16	50,5	-	25	
		48								110													
		55								110													
		42								110													
50	60	48	75	56	430	97	80	118	60	140	5	125	125	179	337	417	492	-	14	50,5	-	25	
		60								140													
		65								140													
		42								110													
55	65	48	70	60	430	105	86	129	65	110	5	135	135	211	374	454	529	-	11	50,5	-	49	
		55								110													
		60								140													
		65								140													
60	75	55	80	68	520	123	98	158	75	140	5	155	155	192	382	472	552	-	16	50,5	-	49	
		60								140													
		75								140													
		55								110													
65	85	60	90	78	520	139	112	182	85	140	5	175	175	240	445	535	615	-	18	50,5	-	86	
		65								140													
		75								140													
		80								170													
70P	90	75	95	85	640	148	122	200	90	140	5	185	185	240	457	567	682	-	26	212,0	-	210	
		80								170													
		90								170													
75P	100	80	110	95	640	165	136	224	100	170	6	206	206	265	503	613	225	-	28	212,0	-	210	
		90								170													
80P	125	110	140	115	810	210	168	280	125	210	6	256	256	270	561	679	779	-	35	291,0	-	210	

Ordering example

ALFA	50	K	S	SCF	ADR	Ø55	Ø55	145 °C	SCD
Type	Coupling size	Design	Adapter shaft	Optionally: e. g. small delay chamber	Attachment coupling: e. g. POLY-NORM®	Bore d ₁	Bore d ₂	FP	Other options: e. g. electronic speed monitoring

Fluid couplings ALFA

with POLY-NORM® AR/ADR (outer wheel drive)



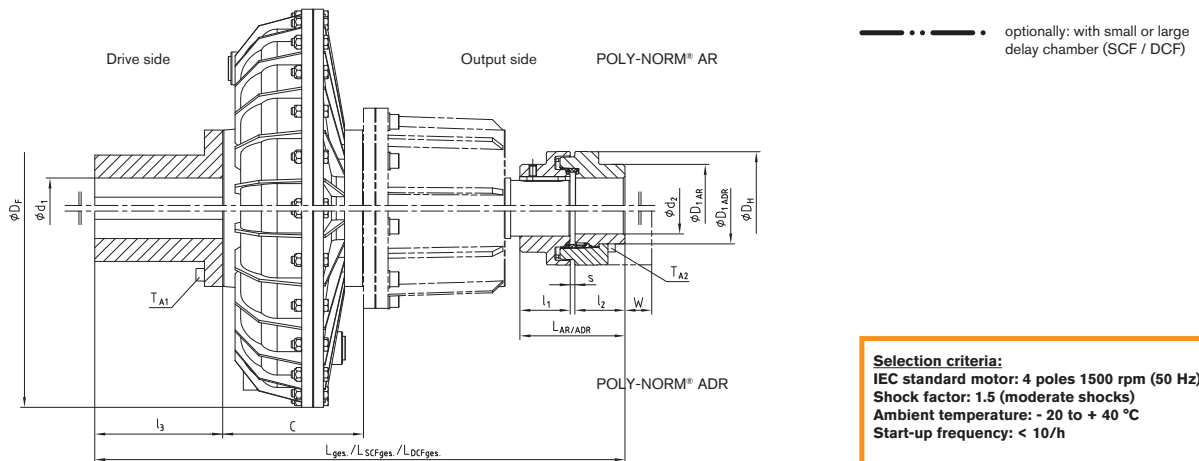
Fluid coupling ALFA K-RM-S-[SCF/DCF]-AR/ADR

Size		Dimensions [mm]															T [Nm]					
FLK	POLY-NORM®	d ₁	d ₂ max		D _F	D ₁		D _H	l ₁ /l ₂	l ₃	S	L		C	L			W		T _{A1}	T _{A2}	
			AR	ADR		AR	ADR					AR	ADR		t	SCF _t	DCF _t	AR	ADR		AR	ADR
10	32	14	35	-	193	53	-	78	32	30	4	68	-	98	176	-	-	-	-	10,5	-	-
		40																				
		50																				
20	32	24	35	-	230	53	-	78	32	40	4	68	-	125	205	-	-	-	-	25,0	-	-
		50																				
		60																				
30	38	38	40	34	290	62	48	87	38	60	4	80	80	162	267	322	362	-	12	25,0	-	10
		80																				
		110																				
30P	42	28	45	38	327	69	54	96	42	60	4	88	88	162	271	326	366	-	16	25,0	-	25
		80																				
		110																				
40P	48	42	50	44	338	78	62	106	48	80	5	101	101	198	327	385	457	-	16	50,5	-	25
		110																				
		110																				
50	60	48	75	56	430	97	80	118	60	110	5	125	125	179	337	417	492	-	14	50,5	-	25
		140																				
		140																				
55	65	42	70	60	430	105	86	129	65	110	5	135	135	211	374	454	529	-	11	50,5	-	49
		110																				
		140																				
60	75	48	80	68	520	123	98	158	75	140	5	155	155	192	382	472	552	-	16	50,5	-	49
		140																				
		140																				
65	85	55	90	78	520	139	112	182	85	140	5	175	175	240	445	535	615	-	18	50,5	-	86
		140																				
		170																				
70P	90	60	95	85	640	148	122	200	90	140	5	185	185	240	457	567	682	-	26	212,0	-	210
		170																				
		170																				
75P	100	80	110	95	640	165	136	224	100	170	6	206	206	265	503	613	225	-	28	212,0	-	210
		170																				
		170																				
80P	125	80	140	115	810	210	168	280	125	210	6	256	256	270	561	679	779	-	35	291,0	-	210
		210																				
		210																				

Ordering example	ALFA	50	K-RM	S	SCF	ADR	Ø55	Ø55	145 °C	ET-FTP 120 °C
	Type	Coupling size	Design	Adapter shaft	Optionally: e. g. small delay chamber	Attachment coupling: e. g. POLY-NORM®	Bore d ₁	Bore d ₂	FP	Other options: e. g. mechanical switch

Fluid couplings ALFA

with POLY-NORM® AR/ADR (outer wheel drive)



Selection criteria:
 IEC standard motor: 4 poles 1500 rpm (50 Hz)
 Shock factor: 1.5 (moderate shocks)
 Ambient temperature: - 20 to + 40 °C
 Start-up frequency: < 10/h

Fluid coupling ALFA K-MS-[SCF/DCF]-AR/ADR																						
Size		Dimensions [mm]														T [Nm]						
FLK	POLY-NORM®	d ₁	d ₂ max		D _F	D ₁		D _H	l ₁ /l ₂	l ₃	S	L		C	L			W		T _{A1}	T _{A2}	
			AR	ADR		AR	ADR					AR	ADR		t	SCF ₁	DCF ₁	AR	ADR		AR	ADR
30	38	28	40	34	290	62	48	87	38	60	4	80	80	162	303	358	398	-	12	25,0	-	25
		38								80					323	378	418					
		55								110					353	408	448					
30P	42	28	45	38	327	69	54	96	42	60	4	88	88	162	308	363	403	-	16	25,0	-	25
		38								80					328	383	478					
		55								110					358	413	453					
40P	48	38	50	44	338	78	62	106	48	80	5	101	101	198	377	435	507	-	16	50,5	-	25
		55								110					407	465	537					
		42								110					401	481	511					
50	60	55	75	56	430	97	80	118	60	110	5	125	125	179	401	481	511	-	14	50,5	-	25
		75								140					431	511	541					
		38								80					418	498	573					
55	65	55	70	60	430	105	86	129	65	110	5	135	135	211	448	528	603	-	11	50,5	-	49
		75								140					478	558	633					
		55								110					449	539	619					
60	75	75	80	68	520	123	98	158	75	140	5	155	155	192	479	569	649	-	16	50,5	-	49
		80								170					509	599	679					
		55								110					511	601	681					
65	85	75	90	78	520	139	112	182	85	140	5	175	175	240	541	631	711	-	18	50,5	-	86
		80								170					571	661	741					
		55								110					492	602	717					
70P	90	75	95	85	640	148	122	200	90	140	5	185	185	240	522	632	747	-	26	212,0	-	210
		95								170					552	662	777					
		110								210					592	702	817					
75P	100	55	110	95	640	165	136	224	100	110	6	206	206	265	567	677	792	-	28	212,0	-	210
		75								140					597	707	822					
		95								170					627	737	852					
		110								210					667	777	892					

Product details

The fluid coupling ALFA K-MS is available as the type of drive „outer wheel drive“ only. The flange type on the driving side makes the entire weight of the fluid coupling bear on the driving shaft. The driven shaft that is mostly smaller has to bear the weight of the attachment coupling only (e. g. POLY-NORM® ADR). In combination with a POLY-NORM® ADR (or e. g. ROTEX® AFN) the fluid coupling can be radially disassembled considering the displacement dimension (W). As a result bearings or gaskets can easily be replaced in the drive train. The design of ALFA K-MS allows for very good heat dissipation, on the one hand by rotating the coupling's outer shell, on the other hand by the axial displacement towards the drive. The body of the fluid coupling is shifted by the coupling flange so that the heat of the coupling only has small influence on the fan fitted on the driving side. The mechanical temperature monitoring system (ET) shifts reliably in combination with ALFA K-MS even if the drive locks.

Ordering example	ALFA	50	K-MS	SCF	ADR	Ø55	Ø50	145 °C	ET-FTP 120 °C
	Type	Coupling size	Design	Optionally: e. g. small delay chamber	Attachment coupling: e. g. POLY-NORM®	Bore d ₁	Bore d ₂	FP	Other options: e. g. mechanical switch