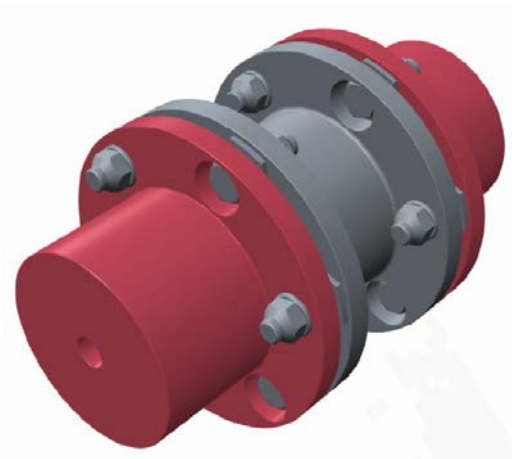


# Raflex® Flexible Disc Coupling series DS



Preliminary Information



**Standard: DSL 163**

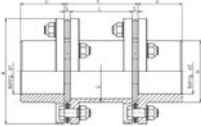
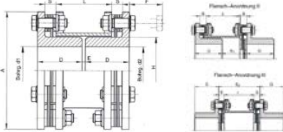
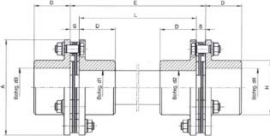
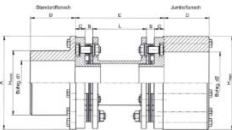
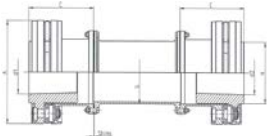
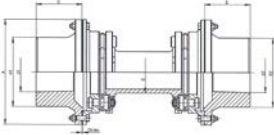
Raflex® Flexible Disc Coupling		bore [mm]	T <sub>kN</sub> [kNm]	T <sub>kmax</sub> [kNm]	Speed up to [rpm]	Design	ATEX	API610	API671
Series DS..	DSL, DSH DSG, DSF	30 to 310	0,17 to 184	0,34 to 368	11200	Standard	X	(X)	-
Series DSP	DSP, DSM	38 to xxx	0,17 to 350	0,34 to 700	32000			X	(X)
Series DT	DTR, DTM	40 to 460	1,95 to 930	3,8 to 1860	36000	High performance		X	X

(X) = Option

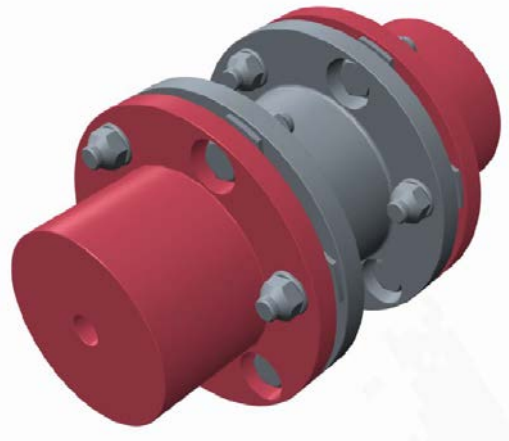


**High Performance: DTR 164**

**Product range - different types:**

type	sketch	remark
<b>DSL - 3/4</b> D = Disc S = Standard L = spacer		Basic series: L = standard length L <sub>min</sub> = min. length L <sub>v</sub> = variable length Option: API 610
<b>DSH - 3/4</b> D = Disc S = Standard H = single short sleeve		L = Standard L <sub>v</sub> = variable length
<b>DSG - 3/4/5</b> D = Disc S = Standard G = torsional shaft with hubs		L <sub>v</sub> = variable length  Option: API 610
<b>DSP - 3</b> D = Disc S = Standard P = pump edition API 610		API 610 L = Standard
<b>DSM - 4/5</b> D = Disc S = Standard P = marine edition API 610	<b>DSP - 5 / under constrction</b>	L <sub>v</sub> = variable length Option: API 671
<b>DTR - 3/4/5</b> D = Disc T = Turbo R = reduced moment config.		API 671 L <sub>v</sub> = variable length
<b>DTM - 3/4/5</b> D = Disc T = Turbo M = marine type		API 671 L <sub>v</sub> = variable length
<b>Special design's</b>	i = electrical insulation, R = limited end float, K = clamping flanges	

Raflex®  
Flexible Disc Coupling  
series DS  
Series DS.. – Disc Standard



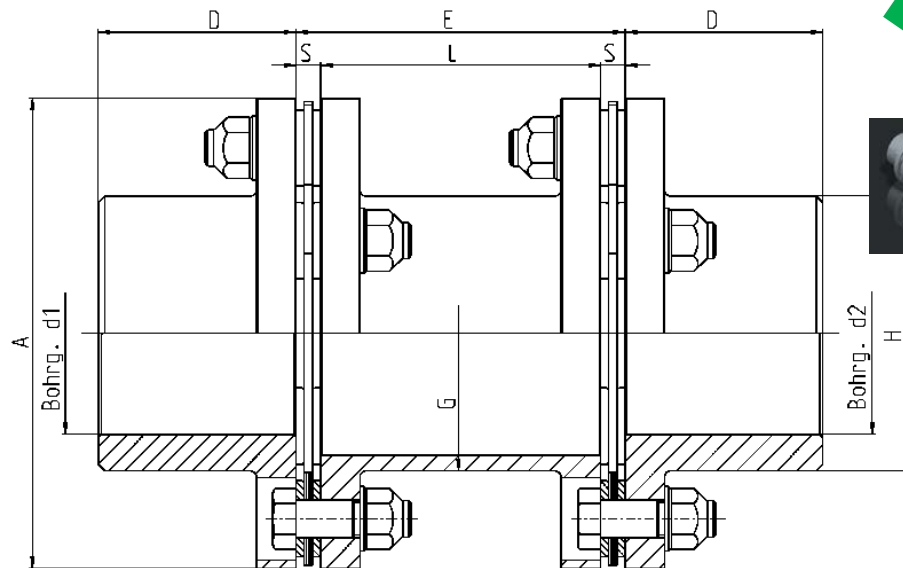
DSL DSH DSG 3 bolts, standard					DSL DSH DSG 4 bolts					DSG 5 bolts					n <sub>max</sub> <sup>1)</sup>						
DSx	T <sub>KN</sub>	T <sub>Kmax</sub>	ΔK <sub>A</sub>	ΔK <sub>W</sub>	DSx	T <sub>KN</sub>	T <sub>Kmax</sub>	ΔK <sub>A</sub>	ΔK <sub>W</sub>	DSx	T <sub>KN</sub>	T <sub>Kmax</sub>	ΔK <sub>A</sub>	ΔK <sub>W</sub>							
73	170	340	1,4	0,7											11200						
83	200	400	1,7												10250						
103	350	700	2,1												9070						
123	750	1500	2,6												8145						
133	860	1720	3,0												7570						
153	2000	4000	3,5												7060						
163	2400	4800	3,7												6810						
193	3900	7800	4,4												6110						
223	4600	9200	5,3												5600						
253	8700	17400	5,8												5090						
293	12600	25200	6,8												4690						
323	20000	40000	7,6												4425						
353	22000	44000	8,2												0,5	355	36500	73000	under construction	0,3	4170
383	31000	60000	8,8													385	51500	103000			3950
423	42000	84000	9,6	425	70000	140000	3740														
463	68000	136000	10,4	465	113000	226000	3500														
on request					514	138000	276000	515	173000	346000	3255										
on request					584	184000	368000	585	230000	460000	3040										
on request					on request					665	350000	700000	2800								

Subject to change due to technical improvement. Spacer design acc. customer's specification. Shaft – hub connection to be checked by client. T<sub>KN</sub> = adm. torque for continuous operation

T<sub>Kmax</sub> = adm. torque for 10<sup>5</sup> cycles  
T<sub>Peak</sub> = 3 · T<sub>KN</sub> for 10<sup>3</sup> cycles

1) higher speed on request

type DSL – 3/4

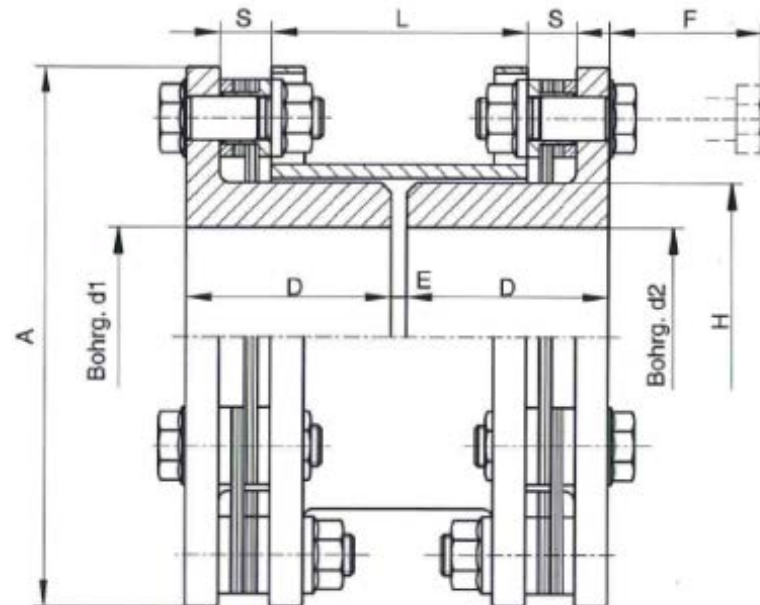


3D File  
on request

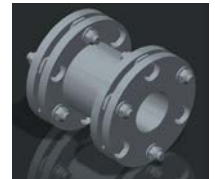
size	A	d <sub>1,2max</sub>	D	H	G	E <sub>STD</sub>	L <sub>STD</sub>	S	DSP-3 kg
73	73	30	30	41	40	47	35	6	1,2
83	84	38	40	51	50	67	55	6	1,7
103	102	45	50	59	58	86	73,2	6,4	2,8
123	121	55	55	72	68	92	78,4	6,8	4,6
133	136	60	60	82	76	102	87,6	7,2	6,3
153	152	70	70	92	83	118	101,6	8,2	9,2
163/164	161	75	75	100	89	128	110	9	11
193/194	191	90	90	119	115	152	132	10	19
223/224	224	105	100	142	133	172	148	12	28
253/254	256	120	110	162	153	188	160	14	41
293/294	291	135	130	183	178	228	198	15	60
323/324	319	150	140	197	191	236	202,4	16,8	81
353/354	351	170	170	222	216	296	258	19	109
383/384	382	185	180	241	229	314	274,8	19,6	134
423/424	417	200	190	261	245	326	282	22	175
463/464	461	220	220	286	267	376	328	24	250
514	520	235	230	305	279	384	330,8	26,6	345
584	580	265	260	350	324	438	378	30	480

Subject to change due to technical improvement. Spacer design acc. customer's specification. Shaft – hub connection to be checked by client.

type DSH – 3/4



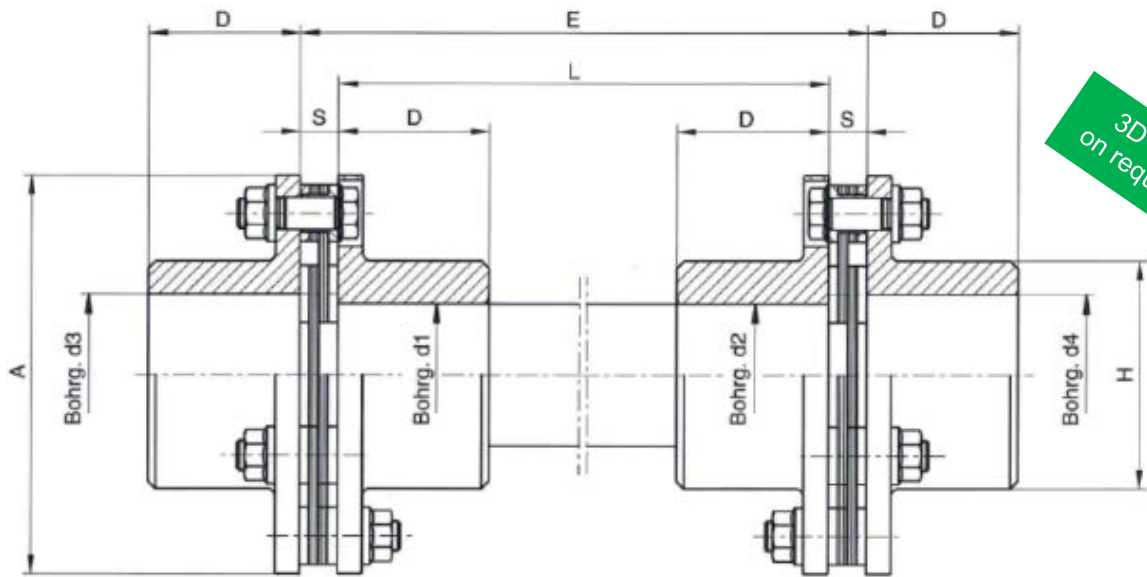
3D File  
on request



size	A	d <sub>1,2max</sub>	D	H	G	E	LSTD	S	F
73	73	25	30	33	40	8	40	6	22
83	84	33	40	43	50	3	55	6	22
103	102	38	50	50	58	4	73,2	6,4	25
123	121	46	55	60	68	4	78,4	6,8	32
133	136	50	60	66	76	4	87,6	7,2	32
153	152	54	70	70	83	4	101,6	8,2	40
163/164	161	59	75	76	89	4	110	9	40
193/194	191	78	90	102	115	6	132	10	50
223/224	224	92	100	120	133	6	148	12	50
253/254	256	105	110	137	153	6	160	14	60
293/294	291	123	130	161	178	10	198	15	65
323/324	319	131	140	171	191	10	202,4	16,8	80
353/354	351	150	170	196	216	10	258	19	80
383/384	382	159	180	207	229	10	274,8	19,6	85
423/424	417	169	190	220	245	10	282	22	95
463/464	461	179	220	233	267	12	328	24	110
514	520	178	230	232	279	12	330,8	26,6	130
584	580	213	260	277	324	12	378	30	140

Subject to change due to technical improvement. Spacer design acc. customer's specification. Shaft – hub connection to be checked by client.

type DSG – 3/4/5



size	A	d <sub>3,4max</sub>	D	H	G	E	L	S	d <sub>1,2max</sub>
73	73	30	30	41	on request			6	30
83	84	38	40	51				6	38
103	102	45	50	59				6,4	45
123	121	55	55	72				6,8	55
133	136	60	60	82				7,2	60
153	152	70	70	92				8,2	70
163/164	161	75	75	100				9	75
193/194	191	90	90	119				10	90
223/224	224	105	100	142				12	105
253/254	256	120	110	162				14	120
293/294	291	135	130	183				15	135
323/324	319	150	140	197				16,8	150
353/354/355	351	170	170	222				19	170
383/384/385	382	185	180	241				19,6	185
423/424/425	417	200	190	261				22	200
463/464/465	461	220	220	286				24	220
514/515	520	235	230	305				26,6	235
584/585	580	265	260	350				30	265
665	661	310	300	406				32,8	310

Subject to change due to technical improvement. Spacer design acc. customer's specification. Shaft – hub connection to be checked by client.