



## LIM - Low Inertia Clutch

### Description

#### CHARACTERISTICS

- ☒ Pneumatically applied - spring release
- ☒ 1, 2, 3 or 4 disc design
- ☒ For dry use only

#### UTILISATION

- ☒ End-of-shaft mounting on bearing supported pulley, sprocket or flywheel

#### TYPICAL USES

- ☒ General drive applications
- ☒ Fast engagement and cyclic applications

#### MOUNTING PRECAUTIONS

- ☒ Input and output halves of clutch must be individually supported
- ☒ Designed for horizontal shaft axis. Consult Wichita if vertical mounting is required

#### SAFETY

- ☒ The clutch should be suitably guarded when in use

### Air Sets

Hoses from the airtube inlets (spuds) are connected to a central adaptor (spider) on the clutch into which screws the roto coupling.

For cycling duties and faster response, silenced quick exhaust valves (SQEV's) should be used. Note, however (a) quick exhaust valves with-out silencers (QEV's) can be used where noise is not a problem. (b) QEV's cannot be fitted to models 104 to 106.

For other duties elbows are supplied.

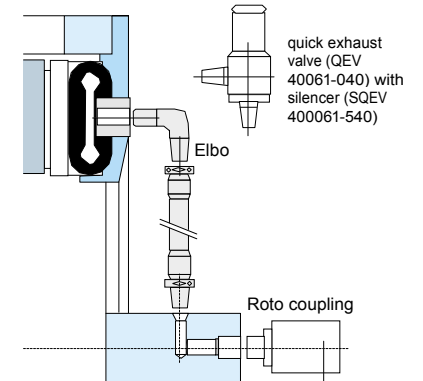
For models 106 to 208, 1 hose is adequate for low speeds. Use 2 hoses for high speeds.

Model Modell	Response Anspreche	# Hoses # Schlauche	Roto pin Rotokupplung T-nr.
LIM 106-206	Slow / Langsam Fast / Schnell	1 2	40067-730 40067-730
LIM 108 -	Slow / Langsam	1	40067-740
LIM 211 -	Fast / Schnell	2	24181-014
LIM 114 -	Slow / Langsam	2	40067-740
LIM 316 -	Fast / Schnell	2	24181-040
LIM 118 -	Slow / Langsam	3	40067-740
LIM 327 -	Fast / Schnell	4	24181-045
LIM 130H -	Slow / Langsam	4	24181-040
LIM 348 -	Fast / Schnell	4	24181-049

Air set coding example Beispiel für Luftsatzbezeichnung		Air set No. Luftsatz Nr.	
		<b>333 - 18 - RSQ</b>	
Qty of air connections Anzahl der Luftanschlüsse	Qty of fittings Anzahl der Armaturen	Qty of hoses Anzahl der Schlauche	Approx hose length (") ca. Schlauchlänge (")
<b>3</b>	<b>3</b>	<b>3</b>	<b>- 18 -</b>

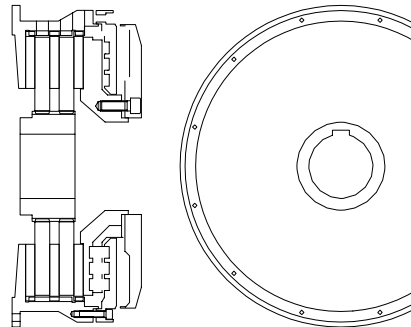
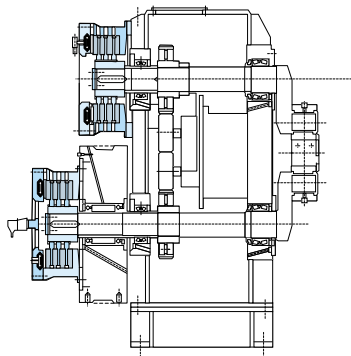
**RSQ**

- R = roto / Drehkupplung
- E = elbows / Kümmer
- Q = QEV / Schnellentlüftungsventil
- SQ = silenced QEV / Schalldämpfendes Schnellentlüftungsventil
- IR = integral roto / Eingebaute Drehkupplung

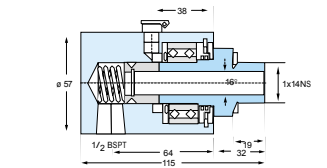
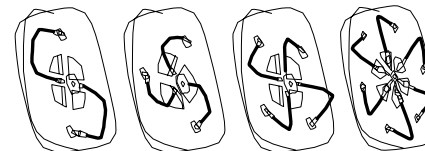
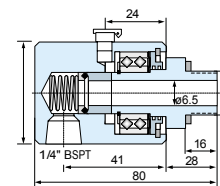


### Mounting example

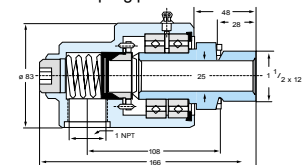
### Einbaubeispiel



### 1/4" ROTO Coupling part No 40067-730



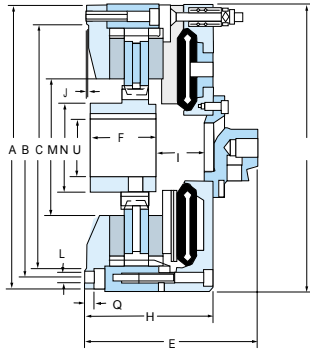
### 1" ROTO Coupling part No 24181-040



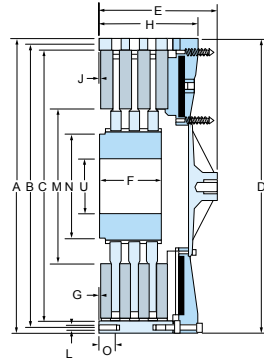


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### Performance

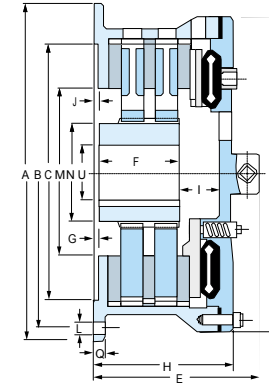


LIM 106 Clutch/Kupplung



LIM 360 Clutch/Kupplung

### Dimensions



LIM Clutch/Kupplung (LIM 108-LIM 242)

Normal (min <sup>-1</sup> )	Dynamic slip torque Dynamisches Gleitmoment		Max speed / Drehzahl				Inertia / Trägheit				Total weight Gesamtgewicht	Air tube displacement Balgvolumen Performance / worm Model
	@ 5.5 bar		Total clutch		Hub & centre plate		Total clutch		Hub & centre plate			
	Hoch	Normal	Gesamtkupplung		Nabe u. Innenscheibe		Gesamtkupplung		Nabe u. Innenscheibe			
	(min <sup>-1</sup> )	(min <sup>-1</sup> )	Standard	High	Standard	High	Standard	High	Standard	High		
1800	2600	5250	0,028	0,003	—	6	15	55	15	57	72	
LIM 106	340	435	1800	2600	3520	5200	0,105	0,009	—	15	30	195
LIM 206	680	870					0,138	0,017	—	20		
LIM 108	620	790					0,315	0,023	—	27		
LIM 208	1240	1580	1750	2500	2870	4230	0,357	0,044	—	32	55	300
LIM 111	1400	1785					1,13	0,100	—	60		
LIM 211	2800	3570	1400	2200	2090	3070	1,42	0,200	—	75	90	500
LIM 114	2435	3100					2,35	0,250	—	84		
LIM 214	4870	6200	1200	1950	1640	2420	2,85	0,450	—	105	125	700
LIM 116	3360	4275					4,32	0,442	0,400	117		
LIM 216	6720	8550	1080	1700	1430	2110	5,25	0,825	0,675	148	160	220
LIM 316	10080	12825					6	1,23	0,990	162		
LIM 118	5705	7260					6,63	0,722	0,623	141		
LIM 218	11410	14520	985	1550	1270	1880	7,60	1,345	1,146	171	250	1400
LIM 318	17115	21780					8,50	1,997	1,699	210		
LIM 121	7755	9870					12,5	1,31	1,20	211		
LIM 221	15510	19740	850	1350	1090	1610	14,6	2,5	2,20	264	300	1600
LIM 321	23265	29610					18,4	4,0	3,20	330		
LIM 124H	13575	17275					19,2	2,3	2,25	289		
LIM 224H	27150	34550	700	1100	950	1410	26,8	4,5	4,25	365	490	2600
LIM 324H	40725	51825					31	6,75	6,25	465		
LIM 127	15260	19420					28,9	4,75	3,45	349		
LIM 227	30520	38840	700	1080	850	1250	35	8,5	6,75	426	960	5100
LIM 327	45780	58260					40	12,6	10	504		
LIM 130H	29630	37710					62,5	7,75	6,2	640		
LIM 230H	59260	75420	600	1000	765	1130	62,5	15,1	10,2	640	1800	6800
LIM 330H	88890	113130					73,5	19,5	17	795		
LIM 136	44920	57175					97	15,2	15	660		
LIM 236	89840	114350	525	800	640	940	133	29,5	28,2	905	2100	8000
LIM 336	134760	171525					187	44,7	43,5	1180		
LIM 142	69160	81660					176	26,5	25,2	890		
LIM 242	128320	163320	440	650	545	805	237	65	54,8	1040	3550	13500
LIM 342	192480	244980					375	92	74	1680		
LIM 248	237600	302400					515	140	138	2050		
LIM 348	356400	453600	380	580	475	705	675	211	184	2530	8400	29300
LIM 260	473000	602000					1650	283	208	3800		
LIM 360	709000	902300	320	475	380	565	2125	450	335	4910	8400	29300
LIM 460	946000	1204000					2520	617	462	6020		

Model Modell	A	B	C <sup>1)</sup>	D	E	F	G	H	I	J	L	M	N	O	U <sup>2)</sup>	
															min	max
LIM 104	181	165	140	181	97	25	14	60	27	5	4xø8,5	75	49	65	15	25
LIM 106	220	203	190	224	132	51	0	95	45	1,5	4xø9	92	68	6	15	45
LIM 206	220	203	190	224	162	83	0	125	45	1,5	4xø9	92	68	6	15	45
LIM 108	310	280	220	283	159	51	6	127	54	6	6xø14	136	89	13	25	57
LIM 208	310	280	220	283	192	83	8	160	54	6	6xø14	136	89	13	25	57
LIM 111	400	375	295	375	184	70	3	152	63	10	6xø18	179	102	16	25	64
LIM 211	400	375	295	375	229	112	6	200	48	10	6xø18	179	102	16	25	64
LIM 114	470	445	370	445	187	95	3	165	40	10	8xø18	240	140	16	35	90
LIM 214	470	445	370	445	238	114	10	216	65	10	8xø18	240	140	16	35	90
LIM 116	540	510	410	508	200	102	10	176	40	10	12xø18	267	152	16	35	102
LIM 216	540	510	410	508	248	120	10	222	65	10	12xø18	267	152	16	35	102
LIM 316	540	510	410	508	297	168	10	272	70	10	12xø18	267	152	16	35	102
LIM 118	590	560	470	559	206	102	11	184	29	10	12xø18	318	178	16	50	120
LIM 218	590	560	470	559	257	120	11	235	62	10	12xø18	318	178	16	50	120
LIM 318	590	560	470	559	304	165	11	282	64	10	12xø18	318	178	16	50	120
LIM 121	685	648	540	632	225	102	19	203	40	8	12xø18	368	229	19	50	152
LIM 221	685	648	540	632	283	130	19	280	70	8	12xø18	368	229	19	50	152
LIM 321	685	648	540	632	337	178	19	294	88	8	12xø18	368	229	19	50	152
LIM 124H	760	730	620	736	232	102	18	200	39	6	12xø18	368	229	19	50	152
LIM 224H	760	730	620	736	289	130	19	257	67	6	12xø18	368	229	19	50	152
LIM 324H	760	730	620	736	352	190	21	320	36	6	12xø18	368	229	19	50	152
LIM 127	830	800	700	787	237	115	19	198	37	6	16xø18	413	229	19	65	165
LIM 227	830	800	700	787	297	175	19	265	39	6	16xø18	413	229	19	65	165
LIM 327	830	800	700	787	365	202	19	323	60	6	16xø18	413	229	19	65	165
LIM 130H	830	900	775	883	318	127	16	229	48	6	18xø22	489	254	19	65	230
LIM 230H	940	900	775	883	368	137	19	280	92	6	18xø22	489	254	19	65	230
LIM 330H	940	900	775	883	425	190	16	320	92	6	18xø22	489	254	19	65	230
LIM 136	940	1065	925	1042	324	143	16	245	38	6	18xø22	600	305	22	153	230
LIM 236	1105	1065	925	1042	410	229	16	330	38	6	18xø22	600	305	22	153	230
LIM 336	1105	1065	925	1042	457	314	16	419	41	6	18xø22	600	305	22	153	230
LIM 142	1320	1250	1134	1245	318	108	6	220	60	6	24xø26	750	407	25	204	255
LIM 242	1320	1250	1134	1245	378	168	6	280	60	6	24xø26	750	407	25	204	255
LIM 342a)	1320	1250	1134	1245	438	228	6	340	60	6	24xø26	750	407	25	204	255
LIM 248a)	1442	1372	1320	1442	449	220	0	356	102	6	24xM24	813	610	—	254	457
LIM 348a)	1442	1372	1320	1442	547	320	0	448	102	6	24xM24	813	610	—	254	457
LIM 260a)	1790	1689	1590	1790	527	238	6	448	158	6	24x2"NC	914	686	—	280	480
LIM 360a)	1790	1689	1590	1790	635	360	6	575	158	6	24x2"NC	914	686	—	280	480
LIM 460a)	1790	1689	1590	1790	748	473	6	690	158	6	24x2"NC	914	686	—	280	480