CONEX / ROTALOCK
Locking Assemblies

1125

Rota Free India Pvt Ltd

CONEX A

Part number	d mm	D mm	B mm	L mm	M mm	T_s Nm	T Nm	F kN	P N/mm²
20A017	17	47	20	26	M 6	16	270	32	106
20A018	18	47	20	26	M 6	16	290	32	106
20A019	19	47	20	26	M 6	16	305	32	106
20A020	20	47	20	26	M 6	16	320	32	106
20A022	22	47	20	26	M 6	16	350	32	106
20A024	24	50	20	26	M 6	16	385	32	100
20A025	25	50	20	26	M 6	16	400	32	100
20A028	28	55	20	26	M 6	16	670	48	136
20A030	30	55	20	26	M 6	16	720	48	136
20A032	32	60	20	26	M 6	16	770	48	125
20A035	35	60	20	26	M 6	16	840	48	125
20A038	38	65	20	26	M 6	16	1140	60	144
20A040	40	65	20	26	M 6	16	1200	60	144
20A042	42	75	24	32	M 8	40	1900	90	159
20A045	45	75	24	32	M 8	40	2030	90	159
20A048	48	80	24	32	M 8	40	2170	90	150
20A050	50	80	24	32	M 8	40	2260	90	150
20A055	55	85	24	32	M 8	40	3110	113	177
20A060	60	90	24	32	M 8	40	3390	113	167
20A065	65	95	24	32	M 8	40	3670	113	158
20A070	70	110	28	38	M 10	78	6180	177	177
20A075	75	115	28	38	M 10	78	6620	177	169
20A080	80	120	28	38	M 10	78	7060	177	162
20A085	85	125	28	38	M 10	78	7500	177	156
20A090	90	130	28	38	M 10	78	7940	177	150
20A095	95	135	28	38	M 10	78	10000	212	173
20A100	100	145	32	44	M 12	135	12900	259	182
20A110	110	155	32	44	M 12	135	14200	259	170
20A120	120	165	32	44	M 12	135	16600	276	170
20A130	130	180	38	50	M 12	135	22400	345	150
20A140	140	190	38	50	M 12	135	26600	379	156
20A150	150	200	38	50	M 12	135	31000	414	161
20A160	160	210	38	50	M 12	135	35900	449	167
20A170	170	225	44	58	M 14	215	44300	521	161
20A180	180	235	44	58	M 14	215	51000	569	168
20A190	190	250	52	66	M 14	215	63000	663	153
20A200	200	260	52	66	M 14	215	71000	710	158
20A220	220	285	56	72	M 16	335	93300	848	158
20A240	240	305	56	72	M 16	335	117400	978	170
20A260	260	325	56	72	M 16	335	144100	1109	181

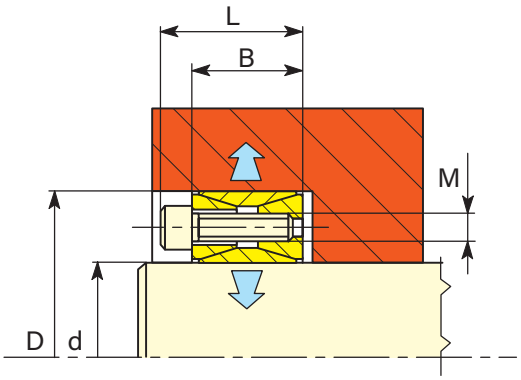
CONEX A

Part number	d mm	D mm	B mm	L mm	M mm	T_s Nm	T Nm	F kN	P N/mm²
20A280	280	355	66	84	M 18	465	177800	1270	159
20A300	300	375	66	84	M 18	465	214300	1429	168
20A320	320	405	78	98	M 20	660	296100	1851	168
20A340	340	425	78	98	M 20	660	314600	1851	160
20A360	360	455	90	112	M 22	900	413700	2298	159
20A380	380	475	90	112	M 22	900	436600	2298	153
20A400	400	495	90	112	M 22	900	459600	2298	147
20A420	420	515	90	112	M 22	900	536200	2553	157
20A440	440	545	102	130	M 24	1130	648000	2946	150
20A460	460	565	102	130	M 24	1130	677600	2946	144
20A480	480	585	102	130	M 24	1130	742400	3093	146
20A500	500	605	102	130	M 24	1130	810000	3241	148
20A520	520	630	102	130	M 24	1130	861700	3314	145
20A540	540	650	102	130	M 24	1130	894800	3314	141
20A560	560	670	102	130	M 24	1130	990000	3535	146
20A580	580	690	102	130	M 24	1130	1068000	3682	148
20A600	600	710	102	130	M 24	1130	1105000	3682	143
20A620	620	730	102	130	M 24	1130	1187000	3829	145
20A640	640	750	102	130	M 24	1130	1273000	3977	147
20A660	660	770	102	130	M 24	1130	1361000	4124	148
20A680	680	790	102	130	M 24	1130	1402000	4124	144
20A700	700	810	102	130	M 24	1130	1547000	4419	150
20A720	720	830	102	130	M 24	1130	1591000	4419	147
20A740	740	850	102	130	M 24	1130	1689000	4566	149
20A760	760	870	102	130	M 24	1130	1791000	4713	150
20A780	780	890	102	130	M 24	1130	1867000	4787	149
20A800	800	910	102	130	M 24	1130	1944000	4861	148
20A820	820	930	102	130	M 24	1130	2053000	5008	149
20A840	840	950	102	130	M 24	1130	2165000	5156	150
20A860	860	970	102	130	M 24	1130	2280000	5302	151
20A880	880	990	102	130	M 24	1130	2398000	5450	152
20A900	900	1010	102	130	M 24	1130	2486000	5523	151
20A920	920	1030	102	130	M 24	1130	2575000	5597	150
20A940	940	1050	102	130	M 24	1130	2700000	5745	151
20A960	960	1070	102	130	M 24	1130	2828000	5892	152
20A980	980	1090	102	130	M 24	1130	2923000	5966	151
20A1000	1000	1110	102	130	M 24	1130	3020000	6039	150

T_s (Nm)	Screws tightening torque
T (Nm) **F** (kN)	Transmissible peak torque or axial force with screws tightening torque T_s
p (N/mm²)	Hub surface pressure

Larger sizes / NICKEL PLATING upon request

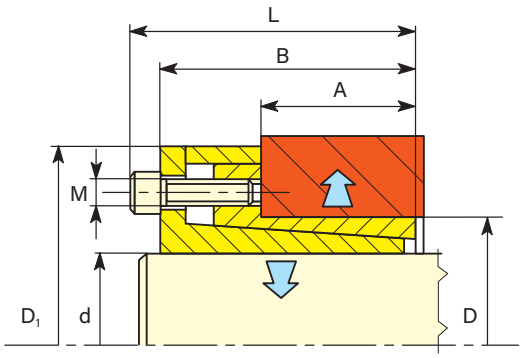
Not self centering
medium-high torques

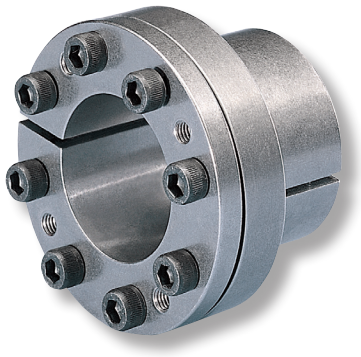


CONEX A

Part number	d inch		D inch	B inch	L inch	M mm	T_s ft-lb	T ft-lb	F lbs	P psi
20A"00L	3/4	0,750	1,850	0,787	1,023	M 6	12	225	7198	15428
20A"00N	7/8	0,875	1,850	0,787	1,023	M 6	12	262	7198	15428
20A"01	1	1,000	1,969	0,787	1,023	M 6	12	300	7198	14495
20A"01B	1 1/8	1,125	2,165	0,787	1,023	M 6	12	506	10797	19774
20A"01C	1 3/16	1,188	2,159	0,813	1,049	M 6	12	534	10797	19829
20A"01D	1 1/4	1,250	2,362	0,787	1,023	M 6	12	562	10797	18125
20A"01F	1 3/8	1,375	2,365	0,776	1,012	M 6	12	619	10797	18102
20A"01G	1 7/16	1,438	2,559	0,787	1,023	M 6	12	808	13496	20912
20A"01H	1 1/2	1,500	2,559	0,787	1,023	M 6	12	844	13496	20912
20A"01J	1 5/8	1,625	2,953	0,945	1,260	M 8	30	1376	20321	23195
20A"01K	1 11/16	1,688	2,953	0,945	1,260	M 8	30	1429	20321	23195
20A"01L	1 3/4	1,750	2,953	0,945	1,260	M 8	30	1482	20321	23195
20A"01N	1 7/8	1,875	3,150	0,945	1,260	M 8	30	1588	20321	21744
20A"01O	1 15/16	1,938	3,150	0,945	1,260	M 8	30	1640	20321	21744
20A"02	2	2,000	3,346	0,945	1,260	M 8	30	2117	25401	25588
20A"02B	2 1/8	2,125	3,346	0,945	1,260	M 8	30	2249	25401	25588
20A"02C	2 3/16	2,188	3,543	0,945	1,260	M 8	30	2315	25401	24165
20A"02D	2 1/4	2,250	3,543	0,945	1,260	M 8	30	2381	25401	24165
20A"02F	2 3/8	2,375	3,531	0,996	1,311	M 8	30	2514	25401	24247
20A"02G	2 7/16	2,438	3,740	0,945	1,260	M 8	30	2580	25401	22892
20A"02H	2 1/2	2,500	3,740	0,945	1,260	M 8	30	2646	25401	22892
20A"02I	2 9/16	2,563	3,737	0,959	1,274	M 8	30	2712	25401	22911
20A"02J	2 5/8	2,625	4,331	1,102	1,496	M 10	58	4340	39677	25716
20A"02K	2 11/16	2,688	4,331	1,102	1,496	M 10	58	4443	39677	25716
20A"02L	2 3/4	2,750	4,337	1,079	1,473	M 10	58	4546	39677	25681
20A"02N	2 7/8	2,875	4,528	1,102	1,496	M 10	58	4753	39677	24597
20A"02O	2 15/16	2,938	4,528	1,102	1,496	M 10	58	4856	39677	24597
20A"03	3	3,000	4,724	1,102	1,496	M 10	58	4960	39677	23577
20A"03B	3 1/8	3,125	4,724	1,102	1,496	M 10	58	5166	39677	23577
20A"03D	3 1/4	3,250	4,921	1,102	1,496	M 10	58	5373	39677	22633
20A"03F	3 3/8	3,375	4,921	1,102	1,496	M 10	58	5580	39677	22633
20A"03G	3 7/16	3,438	5,118	1,102	1,496	M 10	58	5683	39677	21762
20A"03H	3 1/2	3,500	5,118	1,102	1,496	M 10	58	5786	39677	21762
20A"03L	3 3/4	3,750	5,305	1,142	1,536	M 10	58	7440	47613	25194
20"03N	3 7/8	3,875	5,708	1,301	1,773	M 12	100	9383	58112	26373
20A"03O	3 15/16	3,938	5,708	1,301	1,773	M 12	100	9545	58177	26403
20A"04	4	4,000	5,843	1,299	1,771	M 12	100	9696	58177	25793
20A"04C	4 3/16	4,188	6,102	1,299	1,771	M 12	100	10139	58112	24671
20A"04G	4 7/16	4,438	6,496	1,299	1,771	M 12	100	11474	62055	24747
20A"04H	4 1/2	4,500	6,496	1,299	1,771	M 12	100	11635	62055	24747
20A"04O	4 15/16	4,938	7,087	1,496	1,968	M 12	100	15958	77569	21683
20A"05	5	5,000	7,087	1,496	1,968	M 12	100	16160	77569	21683
20A"05G	5 7/16	5,438	7,480	1,496	1,968	M 12	100	19332	85326	22599
20A"05H	5 1/2	5,500	7,492	1,449	1,921	M 12	100	19554	85326	22562
20A"06	6	6,000	8,268	1,496	1,968	M 12	100	25210	100840	24162
20A"06G	6 7/16	6,438	8,858	1,732	2,283	M 14	159	31415	117120	23445
20A"06H	6 1/2	6,500	8,858	1,732	2,283	M 14	159	31720	117120	23445
20A"06O	6 15/16	6,938	9,252	1,732	2,283	M 14	159	36933	127767	24487
20A"07	7	7,000	9,252	1,732	2,283	M 14	159	37265	127767	24487
20A"07H	7 1/2	7,500	9,823	2,126	2,677	M 14	159	46582	149062	22227
20A"07N	7 7/8	7,875	10,235	2,051	2,602	M 14	159	52405	159709	22856

Self centering for Thin walled hubs





CONEX B

Part number	d mm	D mm	D_1 mm	A mm	B mm	L mm	M mm	T_s Nm	T Nm	F kN	P N/mm²
20B006	6	14	25	10	21,5	24,5	M 3	2,6	12	4	73
20B008	8	15	27	11,5	25	29	M 4	5,6	26	7	105
20B009	9	16	28	14	26	30	M 4	5,6	38	8	108
20B010	10	16	29	14	26	30	M 4	5,6	45	9	108
20B011	11	18	32	13,5	26	30	M 4	5,6	50	9	99
20B012	12	18	32	13,5	26	30	M 4	5,6	55	9	103
20B014	14	23	38	14	26	30	M 4	5,6	100	14	117
20B015	15	24	44	16	36	42	M 6	15	145	19	134
20B016	16	24	44	16	36	42	M 6	15	155	19	134
20B017	17	25	45	16	36	42	M 6	15	164	19	128
20B017.26	17	26	47	18	38	44	M 6	17	186	22	124
20B018	18	26	47	18	38	44	M 6	17	204	23	128
20B019	19	27	48	18	38	44	M 6	17	215	23	123
20B020	20	28	49	18	38	44	M 6	17	226	23	119
20B022	22	32	54	25	45	51	M 6	17	250	23	75
20B024	24	34	56	25	45	51	M 6	17	274	23	71
20B025	25	34	56	25	45	51	M 6	17	285	23	71
20B028	28	39	61	25	45	51	M 6	17	480	34	93
20B030	30	41	62	25	45	51	M 6	17	515	34	89
20B032	32	43	65	25	45	51	M 6	17	730	46	113
20B035	35	47	69	30	50	56	M 6	17	800	46	86
20B038	38	50	72	30	50	56	M 6	17	870	46	81
20B040	40	53	75	30	50	56	M 6	17	915	46	76
20B042	42	55	78	32	57	65	M 8	41	1800	86	126
20B045	45	59	85	40	65	73	M 8	41	1900	84	94
20B048	48	62	87	45	70	78	M 8	41	2000	83	80
20B050	50	65	92	45	70	78	M 8	41	2600	104	95
20B055	55	71	98	50	75	83	M 8	41	2900	105	78
20B060	60	77	104	50	75	83	M 8	41	3100	103	72
20B065	65	84	111	50	75	83	M 8	41	3400	105	66
20B070	70	90	119	60	91	101	M 10	83	5800	166	81
20B075	75	95	126	60	91	101	M 10	83	6200	165	77
20B080	80	100	131	65	96	106	M 10	83	8000	200	82
20B085	85	106	137	65	96	106	M 10	83	8500	200	77
20B090	90	112	143	65	96	106	M 10	83	11200	249	91
20B095	95	120	153	65	96	106	M 10	83	11800	248	85
20B100	100	125	162	65	102	114	M 12	145	14900	298	97
20B110	110	140	180	90	128	140	M 12	145	16400	298	62
20B120	120	155	198	90	128	140	M 12	145	17900	298	56
20B130	130	165	203	90	127	140	M 12	145	25800	397	71

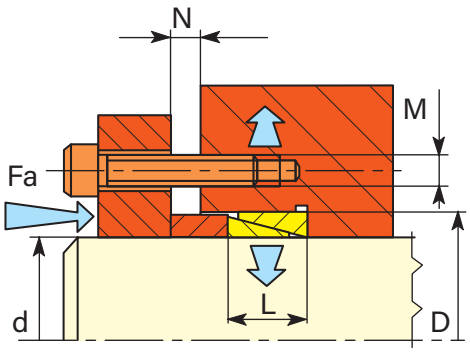
Conex B from d = 6 up to d = 14 can transmit the full transmissible torque only oiling the conical surfaces and the screws with oils with high pressure additives (M_oS_2).

CONEX B

Part number	d inch		D inch	D_1 inch	A inch	B inch	L inch	M mm	T_s ft-lb	T ft-lb	F lbs	P psi
20B"00D	1/4	0,250	0,551	0,984	0,394	0,846	0,965	M 3	2	9	899	10588
20B"00E	5/16	0,313	0,591	1,063	0,453	0,984	1,142	M 4	4,5	18	1574	15229
20B"00F	3/8	0,375	0,630	1,142	0,551	1,024	1,181	M 4	4,5	33	2023	15664
20B"00G	7/16	0,438	0,709	1,260	0,531	1,024	1,181	M 4	4,5	37	2023	14939
20B"00H	1/2	0,500	0,906	1,496	0,551	1,024	1,181	M 4	4,5	44	2023	11313
20B"00J	5/8	0,625	0,945	1,732	0,630	1,417	1,654	M 6	11	114	4271	19435
20B"00L	3/4	0,750	1,063	1,890	0,709	1,496	1,732	M 6	13	159	5171	17840
20B"00N	7/8	0,875	1,260	2,126	0,984	1,772	2,008	M 6	13	188	5171	10878
20B"00O	15/16	0,938	1,339	2,205	0,984	1,772	2,008	M 6	13	199	5171	10298
20B"01	1	1,000	1,339	2,205	0,984	1,772	2,008	M 6	13	214	5171	10298
20B"01B	1 1/8	1,125	1,535	2,402	0,984	1,772	2,008	M 6	13	361	7868	13489
20B"01C	1 3/16	1,188	1,614	2,441	0,984	1,772	2,008	M 6	13	380	7868	12908
20B"01D	1 1/4	1,250	1,693	2,559	0,984	1,772	2,008	M 6	13	535	10341	16389
20B"01F	1 3/8	1,375	1,850	2,717	1,181	1,969	2,205	M 6	13	590	10341	12473
20B"01G	1 7/16	1,438	1,969	2,835	1,181	1,969	2,205	M 6	13	616	10341	11748
20B"01H	1 1/2	1,500	1,969	2,835	1,181	1,969	2,205	M 6	13	642	10341	11748
20B"01J	1 5/8	1,625	2,165	3,071	1,260	2,244	2,559	M 8	30	1276	18884	18275
20B"01K	1 11/16	1,688	2,323	3,346	1,575	2,559	2,874	M 8	30	1324	18884	13634
20B"01L	1 3/4	1,750	2,323	3,346	1,575	2,559	2,874	M 8	30	1372	18884	13634
20B"01N	1 7/8	1,875	2,441	3,425	1,772	2,756	3,071	M 8	30	1471	18884	11603
20B"01O	1 15/16	1,938	2,559	3,622	1,772	2,756	3,071	M 8	30	1899	23605	13779
20B"02	2	2,000	2,795	3,858	1,969	2,953	3,268	M 8	30	1962	23605	11313
20B"02B	2 1/8	2,125	2,795	3,858	1,969	2,953	3,268	M 8	30	2084	23605	11313
20B"02C	2 3/16	2,188	3,031	4,094	1,969	2,953	3,268	M 8	30	2146	23605	10443
20B"02F	2 3/8	2,375	3,031	4,094	1,969	2,953	3,268	M 8	30	2331	23605	10443
20B"02G	2 7/16	2,438	3,307	4,370	1,969	2,953	3,268	M 8	30	2390	23605	9573
20B"02H	2 1/2	2,500	3,307	4,370	1,969	2,953	3,268	M 8	30	2452	23605	9573
20B"02J	2 5/8	2,625	3,543	4,685	2,362	3,583	3,976	M 10	60	4130	37768	11893
20B"02L	2 3/4	2,750	3,543	4,685	2,362	3,583	3,976	M 10	60	4329	37768	11893
20B"02N	2 7/8	2,875	3,740	4,961	2,362	3,583	3,976	M 10	60	4529	37768	11313
20B"02O	2 15/16	2,938	3,740	4,961	2,362	3,583	3,976	M 10	60	4625	37768	11313
20B"03	3	3,000	3,740	4,961	2,362	3,583	3,976	M 10	60	4720	37768	11313
20B"03B	3 1/8	3,125	3,937	5,157	2,559	3,780	4,173	M 10	60	5900	45411	11893
20B"03D	3 1/4	3,250	4,173	5,394	2,559	3,780	4,173	M 10	60	6159	45411	11168
20B"03F	3 3/8	3,375	4,173	5,394	2,559	3,780	4,173	M 10	60	6380	45411	11168
20B"03G	3 7/16	3,438	4,409	5,630	2,559	3,780	4,173	M 10	60	8113	56652	13343
20B"03H	3 1/2	3,500	4,409	5,630	2,559	3,780	4,173	M 10	60	8261	56652	13343
20B"03J	3 5/8	3,625	4,409	5,630	2,559	3,780	4,173	M 10	60	8556	56652	13343
20B"03L	3 3/4	3,750	4,724	6,024	2,559	3,780	4,173	M 10	60	8851	56652	12473
20B"03N	3 7/8	3,875	4,921	6,378	2,559	4,016	4,488	M 12	107	10842	67218	14069
20B"03O	3 15/16	3,938	4,921	6,378	2,559	4,016	4,488	M 12	107	11027	67218	14069
20B"04	4	4,000	4,921	6,378	2,559	4,016	4,488	M 12	107	11174	67218	14069
20B"04D	4 1/4	4,250	5,512	7,087	3,543	5,039	5,512	M 12	107	11875	67218	8992
20B"04F	4 3/8	4,375	5,512	7,087	3,543	5,039	5,512	M 12	107	12244	67218	8992
20B"04G	4 7/16	4,438	6,102	7,795	3,543	5,039	5,512	M 12	107	12428	67218	8122
20B"04H	4 1/2	4,500	6,102	7,795	3,543	5,039	5,512	M 12	107	12612	67218	8122
20B"04L	4 3/4	4,750	6,102	7,795	3,543	5,039	5,512	M 12	107	13276	67218	8122
20B"04O	4 15/16	4,938	6,496	7,992	3,543	5,000	5,472	M 12	107	18439	89474	10298

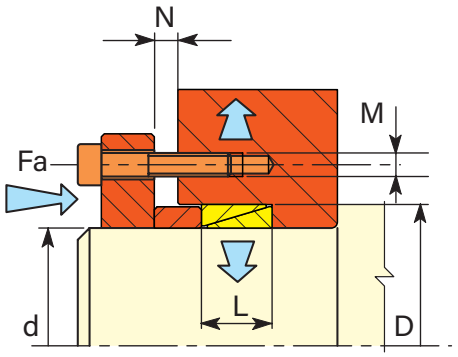
Not self centering. Small radial dimensions

Mounting position **1**



During the clamping the hub can axially displace. Easy removal.

Mounting position **2**



During the clamping the hub remains axially fixed.

F_A Preload force. It is produced by the nr. of screws on the flange, tightened with the torque T_s.
Every screw produces the force **F_s**, and the number of screws should be: **$n \cdot F_s = F_A$**.
The preload force **F_A** generates the transmissible torque T or axial force F.

Screw size	**T_s** Nm	**F_s** kN
M 6	10	9
M 8	26	16
M 10	49	26
M 12	85	38
M 14	135	52

Assembly in series of more units:
2 Conex C T2 = T x 1,6
3 Conex C T3 = T x 1,9
4 Conex C T4 = T x 2,1

* **Part numbers** are referred to the **Solid type.**

For the **Slit type** part number refer to the example below:
d= 150 mm - Part number: 20C150.**C**

CONEX C

Part number *	d	D	L	N mm per units in series				T	F	P	F_A Solid type	F_A Slit type
	mm	mm	mm	1	2	3	4	Nm	kN	N/mm²	kN	kN
20C006	6	9	4,5	3	3	3	4	2	0,8	75	12	3
20C007	7	10	4,5	3	3	3	4	4	1	84	14	5
20C008	8	11	4,5	3	3	3	4	5	1	90	14	6
20C009	9	12	4,5	3	3	3	4	8	1,6	95	16	8
20C010	10	13	4,5	3	3	3	4	10	2	100	16	9
20C011	11	14	4,5	3	3	3	4	10	1,8	93	16	8
20C012	12	15	4,5	3	3	3	4	11	2	90	15	8
20C013	13	16	4,5	3	3	3	4	13	2,1	105	16	9
20C014	14	18	6,3	3	4	4	5	22	3	90	26	14
20C015	15	19	6,3	3	4	4	5	25	3	90	26	15
20C016	16	20	6,3	3	4	4	5	26	3	90	25	15
20C017	17	21	6,3	3	4	4	5	30	3	90	26	16
20C018	18	22	6,3	3	4	4	5	33	3	90	26	17
20C019	19	24	6,3	3	4	4	5	40	4	90	32	19
20C020	20	25	6,3	3	4	4	5	44	4	90	32	20
20C022	22	26	6,3	3	4	4	5	50	4	90	30	21
20C024	24	28	6,3	3	4	4	5	68	6	100	34	26
20C025	25	30	6,3	3	4	4	5	75	6	100	37	28
20C028	28	32	6,3	3	4	4	5	90	6	100	37	30
20C030	30	35	6,3	3	4	4	5	100	7	100	39	31
20C032	32	36	6,3	3	4	4	5	120	7	100	42	34
20C035	35	40	7	3	4	4	5	160	9	100	55	42
20C036	36	42	7	4	5	5	6	170	9,5	100	58	43
20C038	38	44	7	4	5	5	6	190	10	100	60	46
20C040	40	45	8	4	5	5	6	230	11	100	67	53
20C042	42	48	8	4	5	5	6	260	12	100	73	57
20C045	45	52	10	4	5	5	6	390	17	100	106	80
20C048	48	55	10	4	5	5	6	430	18	100	107	82
20C050	50	57	10	4	5	5	6	470	19	100	110	86
20C055	55	62	10	4	5	5	6	580	21	100	119	97
20C056	56	64	12	4	5	5	6	740	24	100	151	121
20C060	60	68	12	4	5	6	7	840	28	100	156	129
20C063	63	71	12	4	5	6	7	920	29	100	160	134
20C065	65	73	12	4	5	6	7	1000	30	100	167	141
20C070	70	79	14	4	5	6	7	1300	38	100	202	171
20C071	71	80	14	4	5	6	7	1400	39	100	212	181
20C075	75	84	14	4	5	6	7	1500	41	100	218	184
20C080	80	91	17	5	6	7	8	2100	54	100	289	241
20C085	85	96	17	5	6	7	8	2400	57	100	305	260
20C090	90	101	17	5	6	7	8	2700	61	100	319	276
20C095	95	106	17	5	6	8	9	3000	64	100	331	290
20C100	100	114	21	5	6	8	9	4200	84	100	447	386
20C110	110	124	21	5	6	8	9	4700	86	90	458	393
20C120	120	134	21	5	6	8	9	5100	88	90	451	391
20C130	130	148	28	6	7	9	11	8100	125	90	669	573
20C140	140	158	28	6	7	9	11	9400	135	90	707	617
20C150	150	168	28	6	7	9	11	11000	145	90	758	674
20C160	160	178	28	6	7	9	11	14500	180	105	912	833
20C170	170	191	33	7	8	10	12	19500	228	105	1172	1054
20C180	180	201	33	7	8	10	12	21200	235	105	1194	1083
20C190	190	211	33	7	9	10	12	24100	250	110	1272	1166
20C200	200	224	38	7	9	11	13	31000	310	105	1558	1425
20C210	210	234	38	7	9	11	13	35000	332	109	1659	1532
20C220	220	244	38	7	9	11	13	38000	344	108	1709	1588
20C230	230	257	43	7	9	12	14	39500	343	90	1744	1579
20C240	240	267	43	7	9	12	14	47000	391	99	1959	1800
20C250	250	280	48	8	10	13	16	52000	415	90	2100	1912
20C260	260	290	48	8	10	13	16	56500	435	90	2178	1998
20C270	270	300	48	8	10	13	16	61000	452	91	2251	2077
20C280	280	313	53	9	11	14	17	72500	518	90	2586	2380
20C290	290	323	53	9	11	14	17	77500	534	90	2678	2457
20C300	300	333	53	9	11	14	17	83000	553	90	2758	2543
20C320	320	360	65	10	15	20	25	114000	719	89	3566	3275
20C340	340	380	65	10	15	20	25	128500	778	89	3749	3474
20C360	360	400	65	10	15	20	25	144000	800	87	3938	3677
20C380	380	420	65	10	15	20	25	160000	845	90	4139	3871
20C400	400	440	65	10	15	20	25	178000	890	91	4347	4091
20C420	420	460	65	10	15	20	25	196000	933	91	4534	4290
20C440	440	480	65	10	15	20	25	215000	977	92	4726	4492
20C460	460	500	65	10	15	20	25	235000	1022	92	4920	4696
20C480	480	520	65	10	15	20	25	256000	1067	92	5141	4903
20C500	500	540	65	10	15	20	25	278000	1112	93	5340	5111

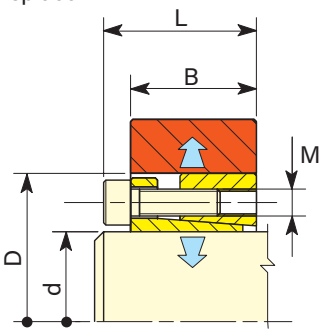
CONEX DS - CONEX ES								CONEX DS				CONEX ES			
Part number *	d mm	D mm	D_1 mm	A mm	B mm	L mm	M mm	T_s Nm	T Nm	F kN	P N/mm²	T_s Nm	T Nm	F kN	P N/mm²
20 _ _ 018	18	47	53	22	28	34	M 6	14	370	41	140	17	290	32	107
20 _ _ 019	19	47	53	22	28	34	M 6	14	390	41	140	17	300	32	107
20 _ _ 020	20	47	53	22	28	34	M 6	14	410	41	140	17	320	32	107
20 _ _ 022	22	47	53	22	28	34	M 6	14	450	41	140	17	350	32	107
20 _ _ 024	24	50	56	22	28	34	M 6	14	490	41	130	17	390	32	100
20 _ _ 025	25	50	56	22	28	34	M 6	14	510	41	130	17	400	32	100
20 _ _ 028	28	55	61,4	22	28	34	M 6	14	570	41	120	17	450	32	91
20 _ _ 030	30	55	61,4	22	28	34	M 6	14	610	41	120	17	490	32	91
20 _ _ 032	32	60	67	22	28	34	M 6	14	880	55	145	17	700	43	111
20 _ _ 035	35	60	67	22	28	34	M 6	14	960	55	145	17	760	43	111
20 _ _ 038	38	65	72	22	28	34	M 6	14	1000	55	135	17	820	43	102
20 _ _ 040	40	65	72	22	28	34	M 6	14	1100	55	135	17	870	43	102
20 _ _ 042	42	75	84	25	33	41	M 8	35	2200	105	190	41	1700	80	144
20 _ _ 045	45	75	84	25	33	41	M 8	35	2400	105	190	41	1800	80	144
20 _ _ 048	48	80	89	24	33,5	41,5	M 8	35	2500	105	175	41	1900	80	135
20 _ _ 050	50	80	89	24	33,5	41,5	M 8	35	2600	105	175	41	2000	80	135
20 _ _ 055	55	85	94	24	33,5	41,5	M 8	35	2900	105	165	41	2200	80	127
20 _ _ 060	60	90	99	24	33,5	41,5	M 8	35	3100	105	155	41	2400	80	120
20 _ _ 065	65	95	104	24	33,5	41,5	M 8	35	3400	105	150	41	2600	80	113
20 _ _ 070	70	110	119	29	40	50	M 10	70	6000	170	175	83	4600	130	132
20 _ _ 075	75	115	124	29	40	50	M 10	70	6400	170	170	83	5000	130	129
20 _ _ 080	80	120	129	29	40	50	M 10	70	6800	170	160	83	5300	130	123
20 _ _ 085	85	125	134	29	40	50	M 10	70	9000	210	190	83	7000	160	146
20 _ _ 090	90	130	139	29	40	50	M 10	70	9600	210	185	83	7400	160	142
20 _ _ 095	95	135	144	29	40	50	M 10	70	10200	210	185	83	7800	160	137
20 _ _ 100	100	145	154	31	44	56	M 12	115	12000	235	170	145	9700	200	140
20 _ _ 110	110	155	164	31	44	56	M 12	115	13000	260	160	145	10700	200	131
20 _ _ 120	120	165	174	31	44	56	M 12	115	16000	270	165	145	13100	220	136
20 _ _ 130	130	180	189	39	52	64	M 12	115	23000	350	155	145	19000	290	127
20 _ _ 140	140	190	199	39	54	68	M 14	185	25000	360	150	230	21000	300	123
20 _ _ 150	150	200	209	39	54	68	M 14	185	30000	400	155	230	25000	333	130
20 _ _ 160	160	210	219	39	54	68	M 14	185	38800	480	170	230	32000	400	149
20 _ _ 170	170	225	234	49	64	78	M 14	185	41300	480	130	230	34000	400	107
20 _ _ 180	180	235	244	49	64	78	M 14	185	43700	480	125	230	36000	400	103
20 _ _ 190	190	250	259	49	64	78	M 14	185	57700	600	145	230	47500	500	122
20 _ _ 200	200	260	269	49	64	78	M 14	185	60700	600	140	230	50000	500	117
20 _ _ 220	220	285	294	57	72	88	M 16	290	78100	710	132	360	62000	564	105
20 _ _ 240	240	305	314	57	72	88	M 16	290	106500	848	154	360	84500	704	122
20 _ _ 260	260	325	334	57	72	88	M 16	290	138500	1017	174	360	110000	846	138
20 _ _ 280	280	355	364	66	84	102	M 18	400	160300	1094	143	480	123500	882	110
20 _ _ 300	300	375	384	66	84	102	M 18	400	193200	1230	152	480	148500	990	117
20 _ _ 320	320	405	414	81	101	121	M 20	580	272700	1627	151	690	207000	1294	114
20 _ _ 340	340	425	434	81	101	121	M 20	580	338000	1899	168	690	256500	1509	127
20 _ _ 360	360	455	464	93	116	138	M 22	780	375700	1994	142	930	287000	1594	108
20 _ _ 380	380	475	484	93	116	138	M 22	780	462700	2326	158	930	353500	1861	121
20 _ _ 400	400	495	504	93	116	138	M 22	780	487000	2326	152	930	372000	1860	116

* Example of part number construction:
CONEX **DS** d= 150 mm - Part number: 20**DS**150
CONEX **ES** d= 150 mm - Part number: 20**ES**150

** Example of part number construction:
CONEX **DS** d= 1 inch - Part number: 20**DS**"01
CONEX **ES** d= 1 inch - Part number: 20**ES**"01

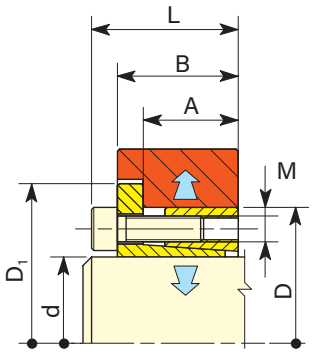
CONEX DS

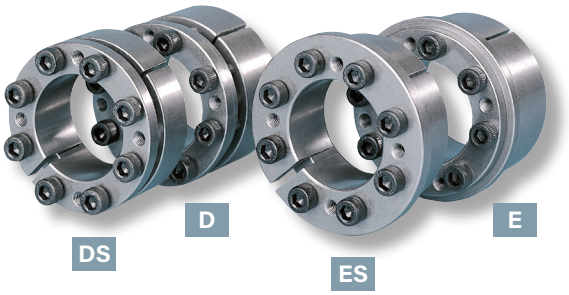
Self centering - high transmissible torque.
During the clamping the hub can axially displace.



CONEX ES

Self centering.
During the clamping the hub remains axially fixed.



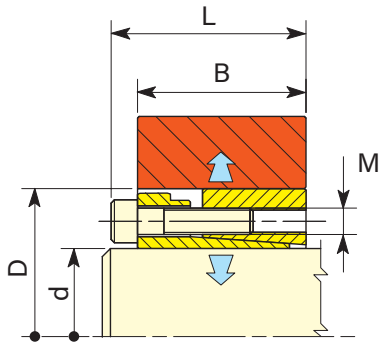


CONEX DS - CONEX ES

Part number * *	d inch		D inch	D1 inch	A inch	B inch	L inch	M mm	CONEX -DS Ts ft-lb	T ft.lb	F lbs	P psi	CONEX -ES Ts ft-lb	T ft.lb	F lbs	P psi
20 _ _ "00L	3/4	0,750	1,850	2,087	0,866	1,102	1,339	M 6	10	295	9379	20160	12	229	7235	15519
20 _ _ "00N	7/8	0,875	1,850	2,087	0,866	1,102	1,339	M 6	10	339	9379	20160	12	266	7235	15519
20 _ _ "01	1	1,000	1,969	2,205	0,866	1,102	1,339	M 6	10	391	9379	18855	12	302	7235	14504
20 _ _ "01B	1 1/8	1,125	2,165	2,417	0,866	1,102	1,339	M 6	10	443	9379	17114	12	339	7235	13198
20 _ _ "01C	1 3/16	1,188	2,165	2,417	0,866	1,102	1,339	M 6	10	465	9379	17114	12	361	7235	13198
20 _ _ "01D	1 1/4	1,250	2,362	2,638	0,866	1,102	1,339	M 6	10	649	12506	20450	12	516	9855	16099
20 _ _ "01F	1 3/8	1,375	2,362	2,638	0,866	1,102	1,339	M 6	10	715	12506	20450	12	568	9855	16099
20 _ _ "01G	1 7/16	1,438	2,559	2,835	0,866	1,102	1,339	M 6	10	752	12506	18855	12	590	9855	14794
20 _ _ "01H	1 1/2	1,500	2,559	2,835	0,866	1,102	1,339	M 6	10	782	12506	18855	12	620	9855	14794
20 _ _ "01J	1 5/8	1,625	2,953	3,307	0,984	1,299	1,614	M 8	26	1593	23536	26832	31	1239	18269	20885
20 _ _ "01K	1 11/16	1,688	2,953	3,307	0,984	1,299	1,614	M 8	26	1652	23536	26832	31	1283	18269	20885
20 _ _ "01L	1 3/4	1,750	2,953	3,307	0,984	1,299	1,614	M 8	26	1755	24059	27412	31	1335	18269	20885
20 _ _ "01N	1 7/8	1,875	3,150	3,504	0,945	1,319	1,634	M 8	26	1837	23536	25237	31	1431	18269	19580
20 _ _ "01O	1 15/16	1,938	3,150	3,504	0,945	1,319	1,634	M 8	26	1903	23536	25237	31	1475	18269	19580
20 _ _ "02	2	2,000	3,150	3,504	0,945	1,319	1,634	M 8	26	1962	23536	25237	31	1519	18269	19580
20 _ _ "02B	2 1/8	2,125	3,346	3,583	0,945	1,319	1,634	M 8	26	2109	23798	23931	31	1615	18269	18420
20 _ _ "02C	2 3/16	2,188	3,346	3,583	0,945	1,319	1,634	M 8	26	2168	23798	23931	31	1667	18269	18420
20 _ _ "02D	2 1/4	2,250	3,543	3,898	0,945	1,319	1,634	M 8	26	2205	23536	22336	31	1711	18269	17405
20 _ _ "02F	2 3/8	2,375	3,543	3,898	0,945	1,319	1,634	M 8	26	2331	23536	22336	31	1807	18269	17405
20 _ _ "02G	2 7/16	2,438	3,740	4,094	0,945	1,319	1,634	M 8	26	2390	23536	21176	31	1859	18269	16389
20 _ _ "02H	2 1/2	2,500	3,740	4,094	0,945	1,319	1,634	M 8	26	2449	23536	21176	31	1903	18269	16389
20 _ _ "02I	2 9/16	2,563	3,740	4,094	0,945	1,319	1,634	M 8	26	2515	23536	21176	31	1947	18269	16389
20 _ _ "02K	2 11/16	2,688	4,331	4,685	1,142	1,575	1,969	M 10	52	4315	38545	24947	62	3319	29626	19145
20 _ _ "02L	2 3/4	2,750	4,331	4,685	1,142	1,575	1,969	M 10	52	4418	38545	24947	62	3393	29626	19145
20 _ _ "02N	2 7/8	2,875	4,528	4,882	1,142	1,575	1,969	M 10	52	4617	38545	23931	62	3621	30237	18710
20 _ _ "02O	2 15/16	2,938	4,528	4,882	1,142	1,575	1,969	M 10	52	4720	38545	23931	62	3703	30237	18710
20 _ _ "03	3	3,000	4,724	5,079	1,142	1,575	1,969	M 10	52	4816	38545	22916	62	3739	29931	17840
20 _ _ "03D	3 1/4	3,250	4,921	5,276	1,142	1,575	1,969	M 10	52	6527	48181	27557	62	5015	37033	21176
20 _ _ "03F	3 3/8	3,375	4,921	5,276	1,142	1,575	1,969	M 10	52	6778	48181	27557	62	5207	37033	21176
20 _ _ "03G	3 7/16	3,438	5,118	5,472	1,142	1,575	1,969	M 10	52	6904	48181	26832	62	5303	37033	20595
20 _ _ "03H	3 1/2	3,500	5,118	5,472	1,142	1,575	1,969	M 10	52	7029	48181	26832	62	5399	37033	20595
20 _ _ "03L	3 3/4	3,750	5,315	5,669	1,142	1,575	1,969	M 10	52	7612	48705	26107	62	5790	37033	19870
20 _ _ "03O	3 15/16	3,938	5,709	6,063	1,220	1,732	2,205	M 12	85	8895	54229	25092	107	7191	43846	20305
20 _ _ "04	4	4,000	5,709	6,063	1,220	1,732	2,205	M 12	85	9035	54229	25092	107	7309	43846	20305
20 _ _ "04G	4 7/16	4,438	6,102	6,457	1,220	1,732	2,205	M 12	85	9920	53646	23206	107	8106	43846	19000
20 _ _ "04L	4 3/4	4,750	6,496	6,850	1,220	1,732	2,205	M 12	85	11941	60352	24076	107	9765	49327	19725
20 _ _ "04O	4 15/16	4,938	7,087	7,441	1,535	2,047	2,520	M 12	85	16374	79594	22191	107	13534	65769	18420
20 _ _ "05	5	5,000	7,087	7,441	1,535	2,047	2,520	M 12	85	16580	79594	22191	107	13704	65769	18420
20 _ _ "05G	5 7/16	5,438	7,480	7,835	1,535	2,126	2,677	M 14	137	18542	81858	21756	170	15275	67435	17840
20 _ _ "05O	5 15/16	5,938	7,874	8,228	1,535	2,126	2,677	M 14	137	22503	90953	22916	170	18535	74928	18855
20 _ _ "06G	6 7/16	6,438	8,858	9,213	1,929	2,520	3,071	M 14	137	29274	109144	18855	170	24118	89914	15519
20 _ _ "06O	6 15/16	6,938	9,252	9,606	1,929	2,520	3,071	M 14	137	31553	109144	18130	170	25992	89914	14939
20 _ _ "07	7	7,000	9,252	9,606	1,929	2,520	3,071	M 14	137	31833	109144	18130	170	26228	89914	14939
20 _ _ "07G	7 7/16	7,438	9,843	10,197	1,929	2,520	3,071	M 14	137	42277	136430	21466	170	34828	112392	17695
20 _ _ "07O	7 15/16	7,938	10,236	10,591	1,929	2,520	3,071	M 14	137	45124	136430	20595	170	37173	112392	16969
20 _ _ "08	8	8,000	10,236	10,591	1,929	2,520	3,071	M 14	137	45478	136430	20595	170	37461	112392	16969

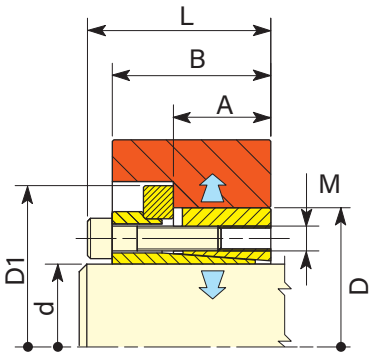
CONEX D

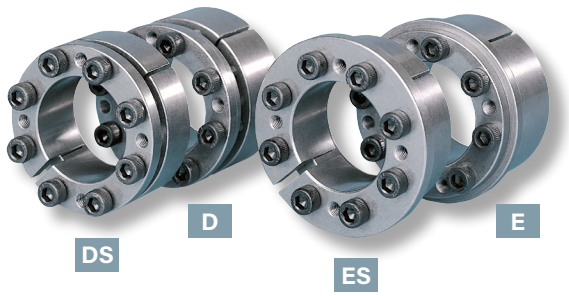
Self centering - high transmissible torque.
During the clamping the hub can axially displace.



CONEX E

Self centering.
During the clamping the hub remains axially fixed.



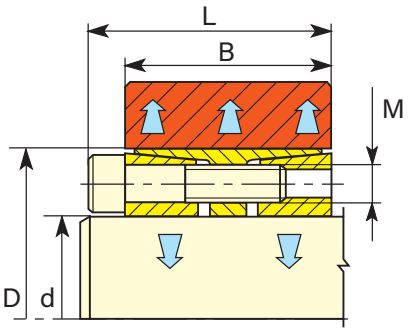


CONEX D - CONEX E								CONEX D				CONEX E			
Part number *	**d** mm	**D** mm	**D_1** mm	**A** mm	**B** mm	**L** mm	**M** mm	**T_s** Nm	**T** Nm	**F** kN	**P** N/mm²	**T_s** Nm	**T** Nm	**F** kN	**P** N/mm²
20 _ 020	20	47	53	31	42	48	M 6	17	530	52	110	17	320	33	70
20 _ 022	22	47	53	31	42	48	M 6	17	580	52	110	17	360	33	70
20 _ 024	24	50	56	31	42	48	M 6	17	630	52	100	17	390	33	70
20 _ 025	25	50	56	31	42	48	M 6	17	660	52	100	17	400	33	70
20 _ 028	28	55	61	31	42	48	M 6	17	740	52	100	17	450	33	60
20 _ 030	30	55	61	31	42	48	M 6	17	790	52	100	17	490	33	60
20 _ 032	32	60	66	31	42	48	M 6	17	1150	70	120	17	690	43	70
20 _ 035	35	60	66	31	42	48	M 6	17	1300	70	120	17	750	43	70
20 _ 038	38	65	71	31	42	48	M 6	17	1300	70	110	17	820	43	70
20 _ 040	40	65	71	31	42	48	M 6	17	1400	70	110	17	860	43	70
20 _ 042	42	75	81	35	51	59	M 8	41	2000	100	120	41	1300	60	70
20 _ 045	45	75	81	35	51	59	M 8	41	2200	100	120	41	1400	60	70
20 _ 048	48	80	86	35	51	59	M 8	41	3200	130	150	41	1900	80	90
20 _ 050	50	80	86	35	51	59	M 8	41	3300	130	150	41	2000	80	90
20 _ 055	55	85	91	35	51	59	M 8	41	3600	130	140	41	2200	80	90
20 _ 060	60	90	96	35	51	59	M 8	41	3900	130	130	41	2400	80	80
20 _ 065	65	95	101	35	51	59	M 8	41	4300	130	120	41	2600	80	70
20 _ 070	70	110	119	46	61	71	M 10	83	7500	210	130	83	4600	130	80
20 _ 075	75	115	124	46	61	71	M 10	83	8000	210	130	83	5000	130	80
20 _ 080	80	120	129	46	61	71	M 10	83	8500	210	120	83	5200	130	70
20 _ 085	85	125	134	46	61	71	M 10	83	11400	270	150	83	7000	170	90
20 _ 090	90	130	139	46	61	71	M 10	83	12000	270	140	83	7400	170	80
20 _ 095	95	135	144	46	61	71	M 10	83	12600	280	135	83	7800	170	80
20 _ 100	100	145	155	52	68	80	M 12	145	15000	300	130	145	9800	190	80
20 _ 110	110	155	165	52	68	80	M 12	145	16500	300	120	145	10700	190	70
20 _ 120	120	165	175	52	68	80	M 12	145	22500	370	140	145	14600	240	90
20 _ 130	130	180	188	52	68	80	M 12	145	29000	450	150	145	19000	300	100
20 _ 140	140	190	199	58	76	90	M 14	210	32000	460	130	230	23000	330	90
20 _ 150	150	200	209	58	76	90	M 14	210	41000	550	150	230	30000	400	100
20 _ 160	160	210	219	58	76	90	M 14	210	44000	550	140	230	32000	400	100
20 _ 170	170	225	234	58	76	90	M 14	210	54500	640	160	230	39000	460	110
20 _ 180	180	235	244	58	76	90	M 14	210	57500	640	150	230	41000	460	100
20 _ 190	190	250	259	58	76	90	M 14	210	65000	689	146	230	46400	488	104
20 _ 200	200	260	269	58	76	90	M 14	210	68000	689	141	230	48800	488	100
20 _ 220	220	285	294	72	98	114	M 16	325	82000	747	109	360	59900	544	79

* Example of part number construction:
CONEX **D** d= 150 mm - Part number: 20**D**150
CONEX **E** d= 150 mm - Part number: 20**E**150

CONEX FS

Self centering - very high torque



Metric

CONEX FS

Part number	d mm	D mm	M mm	B mm	L mm	T_s Nm	T Nm	F kN	P N/mm²
20FS070	70	110	M 10	62	72	83	7270	208	125
20FS075	75	115	M 10	62	72	83	7780	207	120
20FS080	80	120	M 10	62	72	83	10350	259	143
20FS085	85	125	M 10	62	72	83	11000	259	138
20FS090	90	130	M 10	62	72	83	12800	284	146
20FS095	95	135	M 10	62	72	83	13500	284	140
20FS100	100	145	M 12	72	84	145	19400	388	148
20FS110	110	155	M 12	72	84	145	21400	389	139
20FS120	120	165	M 12	72	84	145	25600	427	144
20FS130	130	180	M 12	82	94	145	35400	545	149
20FS140	140	190	M 12	82	94	145	40800	583	151
20FS150	150	200	M 12	82	94	145	43700	583	144
20FS160	160	210	M 12	82	94	145	49800	623	145
20FS170	170	225	M 14	93	107	230	67500	794	146
20FS180	180	235	M 14	93	107	230	71500	794	140
20FS190	190	250	M 14	105	119	230	80500	847	118
20FS200	200	260	M 14	105	119	230	95000	950	128
20FS220	220	285	M 16	111	127	355	119000	1082	124
20FS240	240	305	M 16	111	127	355	173500	1446	154
20FS260	260	325	M 16	111	127	355	197500	1519	152

CONEX FS

Part number	d mm	D mm	M mm	B mm	L mm	T_s Nm	T Nm	F kN	P N/mm²
20FS280	280	355	M 20	111	131	690	236000	1686	166
20FS300	300	375	M 20	111	131	690	270000	1800	168
20FS320	320	405	M 20	136	156	690	360000	2250	154
20FS340	340	425	M 20	136	156	690	382000	2247	147
20FS360	360	455	M 22	155	177	930	501000	2783	142
20FS380	380	475	M 22	155	177	930	529000	2784	135
20FS400	400	495	M 22	155	177	930	613000	3065	143
20FS420	420	515	M 22	155	177	930	702000	3343	150
20FS440	440	535	M 22	155	177	930	735000	3341	144
20FS460	460	555	M 22	155	177	930	769000	3343	139
20FS480	480	575	M 22	155	177	930	835000	3479	140
20FS500	500	595	M 22	155	177	930	870000	3480	135
20FS520	520	615	M 22	155	177	930	1014000	3900	146
20FS540	540	635	M 22	155	177	930	1053000	3900	136
20FS560	560	655	M 22	155	177	930	1170000	4179	141
20FS580	580	675	M 22	155	177	930	1210000	4172	137
20FS600	600	695	M 22	155	177	930	1250000	4167	139

Imperial

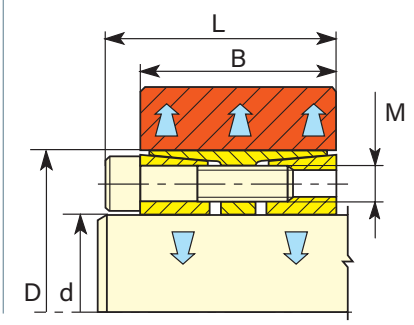
CONEX FS

Part number	d inch		D inch	B inch	L inch	M mm	T_s ft-lb	T ft-lb	F lbs	P psi
20FS"02L	2 3/4	2,750	4,331	2,441	2,835	M 10	61	5349	46683	18144
20FS"02O	2 15/16	2,938	4,528	2,441	2,835	M 10	61	5714	46683	17361
20FS"03G	3 7/16	3,438	5,118	2,441	2,835	M 10	61	9194	64189	21147
20FS"03H	3 1/2	3,500	5,118	2,441	2,835	M 10	61	9361	64189	21147
20FS"03O	3 15/16	3,938	5,709	2,835	3,307	M 12	107	14355	87495	21483
20FS"04G	4 7/16	4,438	6,496	2,835	3,307	M 12	107	17795	96245	20816
20FS"04H	4 1/2	4,500	6,496	2,835	3,307	M 12	107	18045	96245	20816
20FS"04O	4 15/16	4,938	7,087	3,228	3,701	M 12	107	25200	122493	21616
20FS"05	5	5,000	7,087	3,228	3,701	M 12	107	25519	122493	21616
20FS"05G	5 7/16	5,438	7,480	3,228	3,701	M 12	107	29734	131243	21883
20FS"05O	5 15/16	5,938	7,874	3,228	3,701	M 12	107	32469	131243	20816
20FS"06	6	6,000	8,268	3,228	3,701	M 12	107	34998	139992	21083
20FS"06G	6 7/16	6,438	8,858	3,661	4,213	M 14	170	47900	178579	21234
20FS"06O	6 15/16	6,938	9,252	3,661	4,213	M 14	170	51620	178579	20305
20FS"07O	7 15/16	7,938	10,236	4,134	4,685	M 14	170	70873	214295	18579
20FS"08	8	8,000	10,236	4,134	4,685	M 14	170	71431	214295	18579

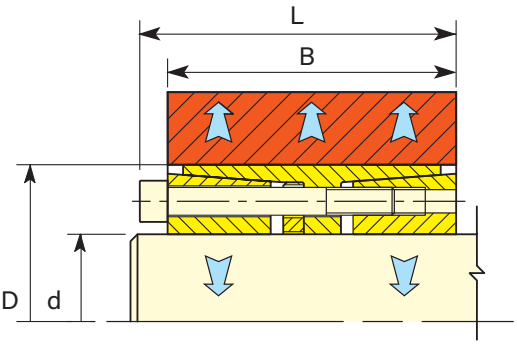
CONEX F - CONEX FL

Self centering - very high torque

CONEX F



CONEX FL



CONEX F

Part number	d mm	D mm	M mm	B mm	L mm	T_s Nm	T Nm	F kN	P N/mm²
20F025	25	50	M 6	45	51	17	760	60	100
20F028	28	55	M 6	45	51	17	1130	81	122
20F030	30	55	M 6	45	51	17	1210	81	122
20F032	32	60	M 6	45	51	17	1290	81	112
20F035	35	60	M 6	45	51	17	1410	81	112
20F038	38	65	M 6	45	51	17	1920	101	129
20F040	40	65	M 6	45	51	17	2020	101	129
20F042	42	75	M 8	45	53	41	3500	167	184
20F045	45	75	M 8	45	53	41	3750	167	184
20F048	48	80	M 8	62	70	41	4000	167	121
20F050	50	80	M 8	62	70	41	4160	167	121
20F055	55	85	M 8	62	70	41	4580	167	113
20F060	60	90	M 8	62	70	41	6250	208	133
20F065	65	95	M 8	62	70	41	6770	208	126
20F070	70	110	M 10	76	86	83	11910	340	146
20F075	75	115	M 10	76	86	83	12760	340	140
20F080	80	120	M 10	76	86	83	16330	408	161
20F085	85	125	M 10	76	86	83	17350	408	155
20F090	90	130	M 10	76	86	83	18370	408	149
20F095	95	135	M 10	76	86	83	19390	408	144
20F100	100	145	M 12	98	110	145	29950	599	156
20F110	110	155	M 12	98	110	145	32950	599	146
20F120	120	165	M 12	98	110	145	41900	699	160
20F130	130	180	M 14	114	128	230	53250	819	147
20F140	140	190	M 14	114	128	230	66900	956	163
20F150	150	200	M 14	114	128	230	81950	1092	177
20F160	160	210	M 14	114	128	230	87400	1092	168
20F170	170	225	M 16	146	162	355	111100	1307	148
20F180	180	235	M 16	146	162	355	126000	1400	152
20F190	190	250	M 16	146	162	355	141900	1494	153
20F200	200	260	M 16	146	162	355	149400	1494	146
20F220	220	285	M 16	146	162	355	184800	1680	150
20F240	240	305	M 16	146	162	355	224050	1867	156
20F260	260	325	M 16	150	166	355	258200	1986	147
20F280	280	355	M 20	177	197	690	369900	2642	150
20F300	300	375	M 20	177	197	690	440400	2936	157
20F320	320	405	M 20	177	197	690	493300	3083	153
20F340	340	425	M 20	177	197	690	549000	3230	153
20F360	360	455	M 22	202	224	930	684000	3800	145
20F380	380	475	M 22	202	224	930	756400	3981	146
20F400	400	495	M 22	202	224	930	868500	4343	153

CONEX F

Part number	d mm	D mm	M mm	B mm	L mm	T_s Nm	T Nm	F kN	P N/mm²
20F420	420	515	M 22	202	224	930	912000	4343	147
20F440	440	535	M 22	202	224	930	943000	4287	140
20F460	460	555	M 22	202	224	930	986000	4287	135
20F480	480	575	M 22	202	224	930	1216000	5066	154
20F500	500	595	M 22	202	224	930	1250000	5001	146
20F520	520	615	M 22	202	224	930	1393000	5358	152
20F540	540	635	M 22	202	224	930	1447000	5358	147
20F560	560	655	M 22	202	224	930	1600000	5716	153
20F580	580	675	M 22	202	224	930	1657500	5716	148
20F600	600	695	M 22	202	224	930	1768000	5894	148

Starting from d 400, outer ring not slitted

CONEX FL

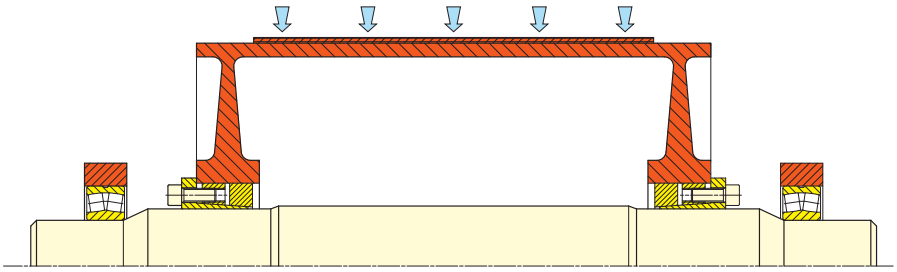
Part number	d mm	D mm	M mm	B mm	L mm	T_s Nm	T Nm	F kN	P N/mm²
20FL180	180	285	M 22	229	251	930	224000	2489	129
20FL200	200	305	M 22	229	251	930	285000	2850	137
20FL220	220	325	M 22	229	251	930	313000	2845	129
20FL240	240	355	M 24	238	262	1200	394000	3283	135
20FL260	260	375	M 24	238	262	1200	481000	3700	144
20FL280	280	405	M 24	238	262	1200	575000	4107	148
20FL300	300	425	M 24	238	262	1200	616000	4107	141
20FL320	320	455	M 27	280	307	1750	776000	4850	125
20FL340	340	475	M 27	280	307	1750	920000	5412	134
20FL360	360	495	M 27	280	307	1750	1070000	5944	141
20FL380	380	515	M 27	280	307	1750	1130000	5947	136
20FL400	400	535	M 27	280	307	1750	1190000	5950	131
20FL420	420	555	M 27	280	307	1750	1360000	6476	137
20FL440	440	575	M 27	280	307	1750	1430000	6500	132
20FL460	460	595	M 27	280	307	1750	1490000	6478	128
20FL480	480	615	M 27	280	307	1750	1820000	7583	144
20FL500	500	635	M 27	280	307	1750	1890000	7560	140
20FL520	520	655	M 27	280	307	1750	1970000	7577	136
20FL540	540	675	M 27	280	307	1750	2190000	8111	141
20FL560	560	695	M 27	280	307	1750	2270000	8107	137

Starting from d 420, outer ring not slitted

CONEX F

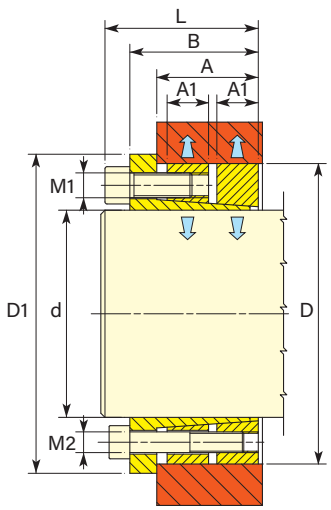
Part number	d inch		D inch	B inch	L inch	M mm	T_s ft-lb	T ft-lb	F lbs	P psi
20F"01	1	1,000	2,165	1,772	2,008	M 6	13	567	13599	13225
20F"01B	1 1/8	1,125	2,165	1,772	2,008	M 6	13	850	18131	17633
20F"01C	1 3/16	1,188	2,165	1,772	2,008	M 6	13	897	18131	17633
20F"01D	1 1/4	1,250	2,362	1,772	2,008	M 6	13	944	18131	16162
20F"01F	1 3/8	1,375	2,362	1,772	2,008	M 6	13	1039	18131	16162
20F"01G	1 7/16	1,438	2,362	1,772	2,008	M 6	13	1086	18131	16162
20F"01H	1 1/2	1,500	2,559	1,772	2,008	M 6	13	1417	22664	18648
20F"01J	1 5/8	1,625	2,559	1,772	2,008	M 6	13	1535	22664	18648
20F"01K	1 11/16	1,688	2,953	1,772	2,087	M 8	30	2633	37447	26700
20F"01L	1 3/4	1,750	2,953	1,772	2,087	M 8	30	2731	37447	26700
20F"01N	1 7/8	1,875	3,150	2,441	2,756	M 8	30	2926	37447	17412
20F"01O	1 15/16	1,938	3,150	2,441	2,756	M 8	30	3023	37447	17412
20F"02	2	2,000	3,150	2,441	2,756	M 8	30	3121	37447	17412
20F"02B	2 1/8	2,125	3,346	2,441	2,756	M 8	30	3316	37447	16392
20F"02C	2 3/16	2,188	3,346	2,441	2,756	M 8	30	3413	37447	16392
20F"02D	2 1/4	2,250	3,543	2,441	2,756	M 8	30	4388	46809	19351
20F"02F	2 3/8	2,375	3,543	2,441	2,756	M 8	30	4632	46809	19351
20F"02G	2 7/16	2,438	3,740	2,441	2,756	M 8	30	4754	46809	18332
20F"02H	2 1/2	2,500	3,740	2,441	2,756	M 8	30	4876	46809	18332
20F"02I	2 9/16	2,563	3,740	2,441	2,756	M 8	30	4998	46809	18332
20F"02J	2 5/8	2,625	4,331	2,992	3,386	M 10	60	8365	76484	21247
20F"02K	2 11/16	2,688	4,331	2,992	3,386	M 10	60	8565	76484	21247
20F"02L	2 3/4	2,750	4,331	2,992	3,386	M 10	60	8764	76484	21247
20F"02N	2 7/8	2,875	4,331	2,992	3,386	M 10	60	9162	76484	21247
20F"02O	2 15/16	2,938	4,724	2,992	3,386	M 10	60	11234	91781	23375
20F"03	3	3,000	4,724	2,992	3,386	M 10	60	11473	91781	23375
20F"03B	3 1/8	3,125	4,724	2,992	3,386	M 10	60	11951	91781	23375
20F"03D	3 1/4	3,250	4,724	2,992	3,386	M 10	60	12429	91781	23375
20F"03F	3 3/8	3,375	5,118	2,992	3,386	M 10	60	12907	91781	21576
20F"03G	3 7/16	3,438	5,118	2,992	3,386	M 10	60	13146	91781	21576
20F"03H	3 1/2	3,500	5,118	2,992	3,386	M 10	60	13385	91781	21576
20F"03J	3 5/8	3,625	5,118	2,992	3,386	M 10	60	13863	91781	21576
20F"03L	3 3/4	3,750	5,709	3,858	4,331	M 12	107	21035	134625	22697
20F"03N	3 7/8	3,875	5,709	3,858	4,331	M 12	107	21736	134625	22697
20F"03O	3 15/16	3,938	5,709	3,858	4,331	M 12	107	22087	134625	22697
20F"04	4	4,000	5,709	3,858	4,331	M 12	107	22437	134625	22697
20F"04D	4 1/4	4,250	6,102	3,858	4,331	M 12	107	23840	134625	21235
20F"04F	4 3/8	4,375	6,102	3,858	4,331	M 12	107	24541	134625	21235
20F"04G	4 7/16	4,438	6,496	3,858	4,331	M 12	107	29040	157062	23272
20F"04H	4 1/2	4,500	6,496	3,858	4,331	M 12	107	29449	157062	23272
20F"04L	4 3/4	4,750	6,496	3,858	4,331	M 12	107	31085	157062	23272
20F"04O	4 15/16	4,938	7,087	4,488	5,039	M 14	170	37892	184182	21354
20F"05	5	5,000	7,087	4,488	5,039	M 14	170	38371	184182	21354
20F"05D	5 1/4	5,250	7,480	4,488	5,039	M 14	170	47005	214879	23604
20F"05G	5 7/16	5,438	7,480	4,488	5,039	M 14	170	48683	214879	23604
20F"05H	5 1/2	5,500	7,480	4,488	5,039	M 14	170	49243	214879	23604
20F"05L	5 3/4	5,750	7,874	4,488	5,039	M 14	170	58836	245575	25626
20F"05O	5 15/16	5,938	7,874	4,488	5,039	M 14	170	60754	245575	25626
20F"06	6	6,000	8,268	4,488	5,039	M 14	170	61394	245575	24405
20F"06G	6 7/16	6,438	8,858	5,748	6,378	M 16	262	78810	293815	21489
20F"06H	6 1/2	6,500	8,858	5,748	6,378	M 16	262	79575	293815	21489
20F"06O	6 15/16	6,938	9,252	5,748	6,378	M 16	262	90998	314802	22043
20F"07	7	7,000	9,252	5,748	6,378	M 16	262	91817	314802	22043
20F"07D	7 1/4	7,250	9,843	5,748	6,378	M 16	262	101436	335789	22101
20F"07G	7 7/16	7,438	9,843	5,748	6,378	M 16	262	104060	335789	22101
20F"07H	7 1/2	7,500	9,843	5,748	6,378	M 16	262	104934	335789	22101
20F"07L	7 3/4	7,750	10,236	5,748	6,378	M 16	262	108432	335789	21252
20F"07O	7 15/16	7,938	10,236	5,748	6,378	M 16	262	111055	335789	21252
20F"08	8	8,000	10,236	5,866	6,496	M 16	262	111930	335789	20093

For use with high bending moments.
Self centering - very high torque.
During the clamping the hub remains axially fixed.

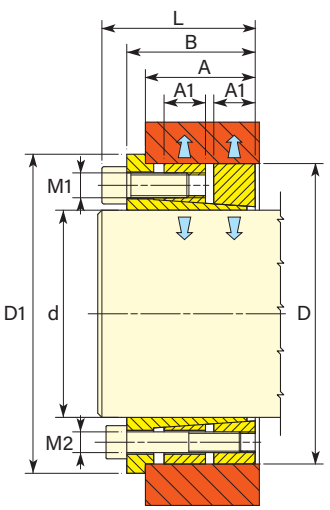


CONEX P

Part number	d mm	D mm	D_1 mm	A mm	A_1 mm	B mm	L mm	M_1 M	Ts_1 Nm	M_2 M	Ts_2 Nm	T_1 Nm	T_2 Nm	T_T Nm	F_1 kN	F_2 kN	F_T kN	P_1 N/mm²	P_2 N/mm²
2P100	100	150	156	61	26	82	96	M 14	230	M 12	145	11900	8900	20800	238	178	416	162	121
2P110	110	160	166	61	26	82	96	M 14	230	M 12	145	13200	9800	23000	240	178	418	154	114
2P120	120	170	176	61	26	82	96	M 14	230	M 12	145	14400	10500	24900	240	175	415	145	106
2P130	130	190	196	71	30	95	111	M 16	355	M 14	230	24300	17700	42000	374	272	646	174	127
2P140	140	200	206	71	30	95	111	M 16	355	M 14	230	26000	19000	45000	371	271	643	165	120
2P150	150	210	216	71	30	95	111	M 16	355	M 14	230	27400	19900	47300	365	264	629	154	111
2P160	160	220	226	71	30	95	111	M 16	355	M 14	230	29900	21900	51800	374	274	648	150	110
2P170	170	240	246	92	40	122	142	M 20	690	M 16	355	49200	31600	80800	579	372	951	145	103
2P180	180	250	256	92	40	122	142	M 20	690	M 16	355	53000	34000	87000	589	378	967	156	100
2P190	190	260	266	92	40	122	142	M 20	690	M 16	355	64500	41500	106000	679	437	1116	173	111
2P200	200	270	276	92	40	122	142	M 20	690	M 16	355	73700	47100	120800	737	471	1208	182	116
2P220	220	290	296	92	40	122	142	M 20	690	M 16	355	81000	51800	132800	736	471	1207	169	108
2P240	240	310	316	92	40	122	142	M 20	690	M 16	355	106500	67900	174400	888	566	1453	190	121
2P260	260	330	336	92	40	122	142	M 20	690	M 16	355	114600	73500	188100	882	565	1447	177	114
2P280	280	365	374	108	45	144	168	M 24	1200	M 20	690	150200	103500	253700	1073	739	1812	173	119
2P300	300	385	394	108	45	144	168	M 24	1200	M 20	690	161300	110600	271900	1075	737	1813	165	113
2P320	320	405	414	108	45	144	168	M 24	1200	M 20	690	204500	140200	344700	1278	876	2154	187	128
2P340	340	425	434	108	45	144	168	M 24	1200	M 20	690	255700	175500	431200	1504	1032	2536	208	143
2P360	360	445	454	108	45	144	168	M 24	1200	M 20	690	269000	184500	453500	1494	1025	2519	198	136
2P380	380	465	474	108	45	144	168	M 24	1200	M 20	690	326800	224300	551100	1720	1181	2901	218	149
2P400	400	485	494	108	45	144	168	M 24	1200	M 20	690	344000	235400	579400	1720	1177	2897	209	144
2P420	420	505	514	108	45	144	168	M 24	1200	M 20	690	359500	246400	605900	1712	1173	2885	200	137
2P440	440	525	534	147	59	178	202	M 24	1200	M 20	690	376700	258500	635200	1712	1175	2887	147	101
2P460	460	545	554	147	59	178	202	M 24	1200	M 20	690	393900	269600	663500	1713	1172	2885	141	97
2P480	480	565	574	147	59	178	202	M 24	1200	M 20	690	410000	281700	691700	1708	1174	2882	136	94
2P500	500	585	594	147	59	178	202	M 24	1200	M 20	690	480700	330200	810900	1923	1321	3244	147	102
2P520	520	605	614	147	59	178	202	M 24	1200	M 20	690	499900	343400	843300	1923	1321	3243	143	98
2P540	540	625	634	147	59	178	202	M 24	1200	M 20	690	519100	356500	875600	1923	1320	3243	138	95
2P560	560	645	654	147	59	178	202	M 24	1200	M 20	690	538300	369600	907900	1923	1320	3243	134	92
2P580	580	665	674	147	59	178	202	M 24	1200	M 20	690	620100	425200	1045300	2138	1466	3604	144	99
2P600	600	685	694	147	59	178	202	M 24	1200	M 20	690	640000	440000	1080000	2133	1467	3600	140	97



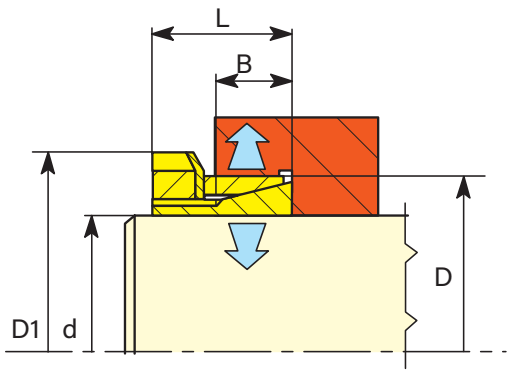
up to d 420

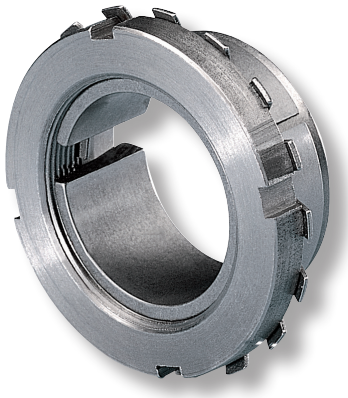


d 440 and larger sizes

CONEX H - CONEX I

Quick mounting and removal





CONEX H

Part number	d mm	D mm	D_1 mm	B mm	L mm	T_N Nm	T Nm	F kN	P N/mm²
20H014	14	25	32	6,5	16,5	65	37	6	73
20H015	15	25	32	6,5	16,5	65	40	6	73
20H016	16	25	32	6,5	16,5	65	42	6	73
20H017	17	25	38	6,5	16,5	75	63	7	101
20H018	18	30	38	7	17	85	65	8	80
20H019	19	30	38	7	17	95	60	7	70
20H020	20	30	38	7	17	110	70	8	80
20H022	22	35	45	7	17	130	80	9	80
20H024	24	35	45	7	17	155	100	10	80
20H025	25	35	45	7	17	160	110	10	90
20H028	28	40	52	8	20	200	140	11	70
20H030	30	40	52	8	20	240	170	14	80
20H032	32	45	58	9	22	320	210	15	80
20H035	35	45	58	9	22	320	230	15	80
20H038	38	50	65	9	23	440	300	19	87
20H040	40	50	65	9	23	440	330	19	90
20H042	42	55	70	10	25	550	400	23	92
20H045	45	55	70	10	25	550	440	23	90
20H050	50	60	75	10	25	660	530	25	90
20H055	55	65	80	12	29,5	800	640	27	80
20H060	60	70	85	12	29,5	900	830	32	80
20H070	70	84	98	14	31,5	1100	1100	31	90

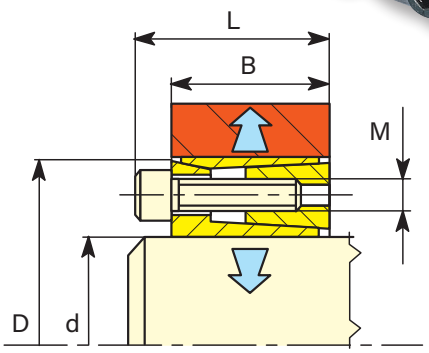
CONEX I

Part number	d mm	D mm	D_1 mm	B mm	L mm	T_N Nm	T Nm	F kN	P N/mm²
20I014	14	25	32	17	29	90	90	15	80
20I015	15	25	32	17	29	90	100	15	80
20I016	16	25	32	17	29	70	80	12	60
20I017	17	25	38	18	31	90	113	12	80
20I018	18	30	38	18	31	190	200	25	110
20I019	19	30	38	18	31	150	170	20	90
20I020	20	30	38	18	31	110	130	15	60
20I022	22	35	45	22	35	130	180	18	60
20I024	24	35	45	22	35	230	270	26	80
20I025	25	35	45	22	35	170	200	20	60
20I028	28	40	52	22	35	390	460	40	100
20I030	30	40	52	22	35	240	300	24	60
20I032	32	45	58	27	42	320	420	31	60
20I035	35	45	58	28	42	320	460	31	60
20I040	40	50	65	28	44	440	640	37	60
20I045	45	55	70	28	45	550	760	40	60
20I050	50	60	75	28	46	660	930	44	60
20I055	55	65	80	28	47	800	1130	47	60
20I060	60	70	85	28	52	1050	1500	59	70

T_N (Nm)	Nut tightening torque
T (Nm) **F** (kN)	Transmissible peak torque or axial force with nut tightening torque T_N
p (N/mm²)	Hub surface pressure

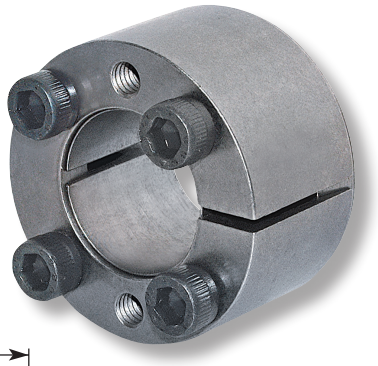
CONEX L

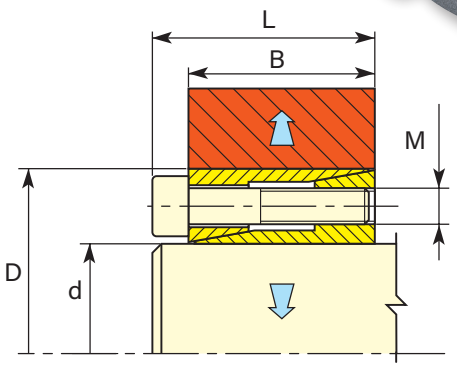
Self centering medium torques



CONEX K

Self centering medium torques





CONEX L

Part number	d mm	D mm	B mm	L mm	M mm	T_s Nm	T Nm	F kN	P N/mm²
20L016	16	32	17	21	M 4	5	80	10	68
20L018	18	40	18	24	M 6	17	180	21	100
20L019	19	41	18	24	M 6	17	190	21	100
20L020	20	42	18	24	M 6	17	200	21	100
20L022	22	44	18	24	M 6	17	220	21	90
20L024	24	46	18	24	M 6	17	360	31	130
20L025	25	47	18	24	M 6	17	380	31	130
20L028	28	50	18	24	M 6	17	420	31	120
20L030	30	52	18	24	M 6	17	450	31	120
20L032	32	54	18	24	M 6	17	480	31	110
20L035	35	57	22	28	M 6	17	700	40	105
20L038	38	60	22	28	M 6	17	750	40	100
20L040	40	62	22	28	M 6	17	800	40	95
20L042	42	70	28	36	M 8	41	1500	72	120
20L045	45	73	28	36	M 8	41	1700	76	120
20L048	48	76	28	36	M 8	41	1780	75	113
20L050	50	78	28	36	M 8	41	1840	75	110
20L055	55	83	28	36	M 8	41	2000	74	105
20L060	60	88	28	36	M 8	41	2200	74	100
20L065	65	93	28	36	M 8	41	2400	74	95
20L070	70	105	35	45	M 10	80	4100	117	102
20L075	75	110	35	45	M 10	80	4400	117	100
20L080	80	115	35	45	M 10	80	4700	117	95
20L085	85	120	35	45	M 10	80	5500	130	100
20L090	90	125	35	45	M 10	80	5800	130	95
20L100	100	138	35	45	M 10	80	6500	130	86

CONEX K

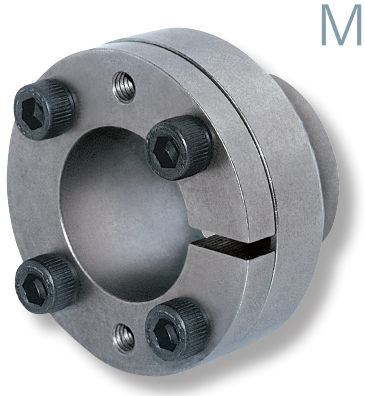
Part number	d mm	D mm	B mm	L mm	M mm	T_s Nm	T Nm	F kN	P N/mm²
20K005	5	16	11	13,5	M 2,5	1,2	6	3	57
20K006	6	16	11	13,5	M 2,5	1,2	8	3	57
20K006.35	6,35	16	11	13,5	M 2,5	1,2	8	3	57
20K007	7	17	11	13,5	M 2,5	1,2	8	3	54
20K008	8	18	11	13,5	M 2,5	1,2	10	3	51
20K009	9	20	13	15,5	M 2,5	1,2	16	4	61
20K009.35	9,53	20	13	15,5	M 2,5	1,2	17	4	61
20K010	10	20	13	15,5	M 2,5	1,2	18	4	61
20K011	11	22	13	15,5	M 2,5	1,2	20	4	55
20K012	12	22	13	15,5	M 2,5	1,2	22	4	55
20K014	14	26	17	20	M 3	2,1	38	6	51
20K015	15	28	17	20	M 3	2,1	41	6	48
20K016	16	32	17	21	M 4	4,9	78	10	73
20K017	17	35	21	25	M 4	4,9	83	10	57
20K018	18	35	21	25	M 4	4,9	87	10	57
20K019	19	35	21	25	M 4	4,9	93	10	57
20K020	20	38	21	26	M 5	9,7	155	15	84
20K022	22	40	21	26	M 5	9,7	170	15	80
20K024	24	47	26	32	M 6	16,5	265	22	77
20K025	25	47	26	32	M 6	16,5	275	22	77
20K028	28	50	26	32	M 6	16,5	470	34	112
20K030	30	55	26	32	M 6	16,5	500	34	101
20K032	32	55	26	32	M 6	16,5	535	34	101
20K035	35	60	31	37	M 6	16,5	785	45	99
20K038	38	65	31	37	M 6	16,5	850	45	91
20K040	40	65	31	37	M 6	16,5	890	45	91
20K045	45	75	36	44	M 8	40	1800	81	125
20K050	50	80	36	44	M 8	40	2000	81	117

MIDAS

Modular Systems

CONEX EP

Patented



MIDAS

Part number *	Midas	d mm	D mm	D_1 mm	A mm	B mm	L mm	M mm	T_s Nm	T Nm	F kN	P N/mm²
20P10 _ _ .26	2614	10 - 11 - 12 14 - 15 - 16 18 - 19 - 20	26	40,5	14	27,5	31,5	M 4	5	40 - 50 - 55 90 - 95 - 115 130 - 140 - 145	10 14	100
20P20 _ _ .38	3814	19 - 20 - 22 24 - 25 - 28 - 30	38	57	14	33	39	M 6	17	195 - 200 - 240 265 - 275 - 310 - 330	22	104
20P30 _ _ .38	3827	19 - 20 - 22 24 - 25 - 28 - 30	38	57	27	46	52	M 6	17	310 - 330 - 360 400 - 410 - 460 - 500	34	81
20P40 _ _ .52	5227	24 - 25 - 28 - 30 32 - 35 - 38 - 40 - 42	52	70,5	27	46	52	M 6	17	470 - 490 - 550 - 590 700 - 770 - 840 - 880 - 920	44	79
20P50 _ _ .72	7237	28 - 30 - 32 - 35 38 - 40 - 42 - 45 48 - 50 - 55 - 60	72	96,5	37	60	68	M 8	41	1240 - 1330 - 1420 - 1550 1780 - 1880 - 1970 - 2110 2250 - 2350 - 2590 - 2820	95	99

* Example of part number construction:
CONEX MIDAS 2614 **d= 15 mm** - Part number: 20P1015.26
CONEX MIDAS 3827 **d= 28 mm** - Part number: 20P3028.38

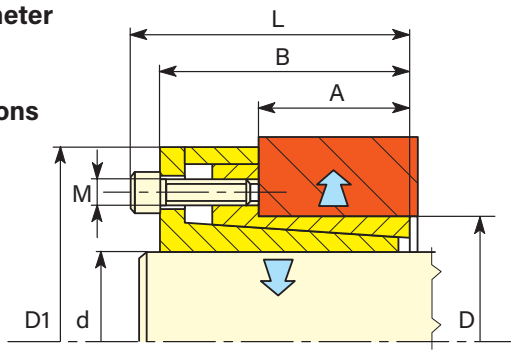
CONEX EP

Part number *	EP	d mm	D mm	D_1 mm	A mm	B mm	L mm	M mm	T_s Nm	T Nm	F kN	P N/mm²
20EP0 _ _ .55	55	14 - 16	55	62	22	30	38	M 8	41	287 - 329	41	117
		18 - 19 - 20	55	62	22	30	38	M 8	41	370 - 390 - 410	41	117
		22 - 24 - 25	55	62	22	30	38	M 8	41	451 - 492 - 513	41	117
		28 - 30	55	62	22	30	38	M 8	41	575 - 616	41	117
20EP0 _ _ .65	65	24 - 25	65	72	22	30	38	M 8	41	616 - 641	51	123
		28 - 30 - 32	65	72	22	30	38	M 8	41	718 - 770 - 821	51	123
		35 - 38 - 40	65	72	22	30	38	M 8	41	898 - 975 - 1026	51	123
20EP0 _ _ .80	80	30 - 32 - 35	80	88	25	33	41	M 8	41	1077 - 1150 - 1257	72	120
		38 - 40	80	88	25	33	41	M 8	41	1364 - 1436	72	120
		42 - 45 - 48 - 50	80	88	25	33	41	M 8	41	1509 - 1616 - 1723 - 1796	72	120

* Example of part number construction:
CONEX EP 55 **d= 20 mm** - Part number: 20EP020.55
CONEX EP 80 **d= 40 mm** - Part number: 20EP040.80

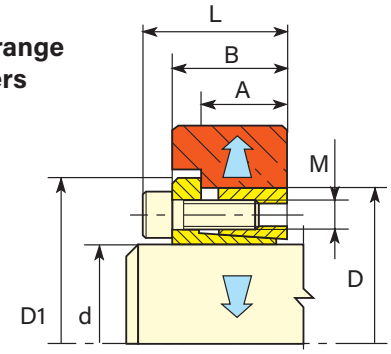
MIDAS

The same outer diameter and a range of inner diameters.
Small radial dimensions

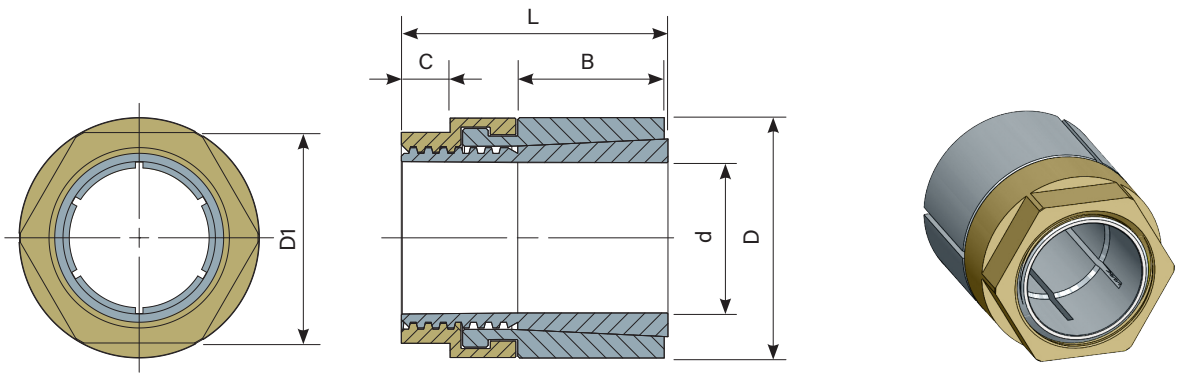


CONEX EP

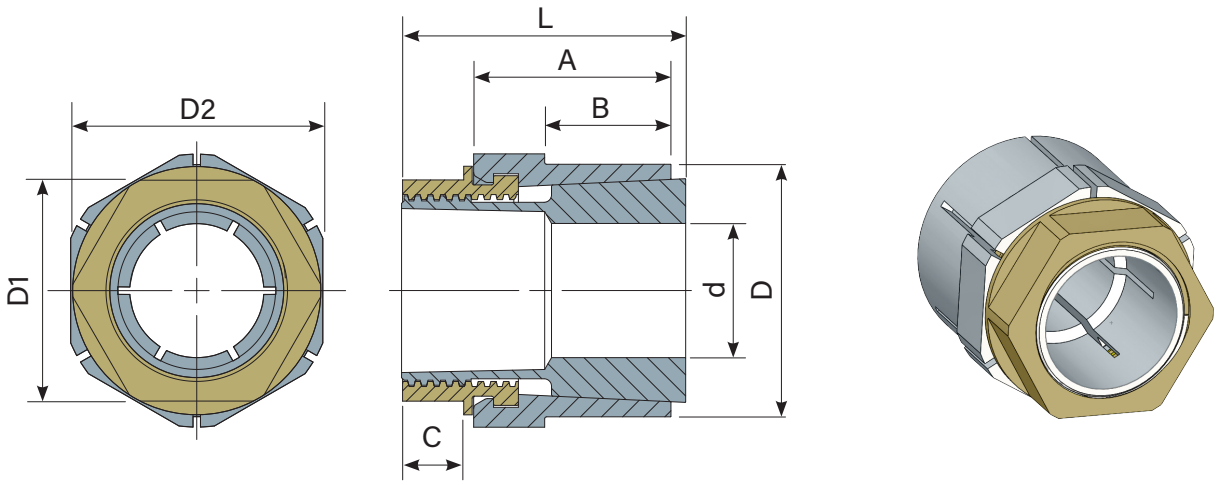
The same outer diameter and a range of inner diameters

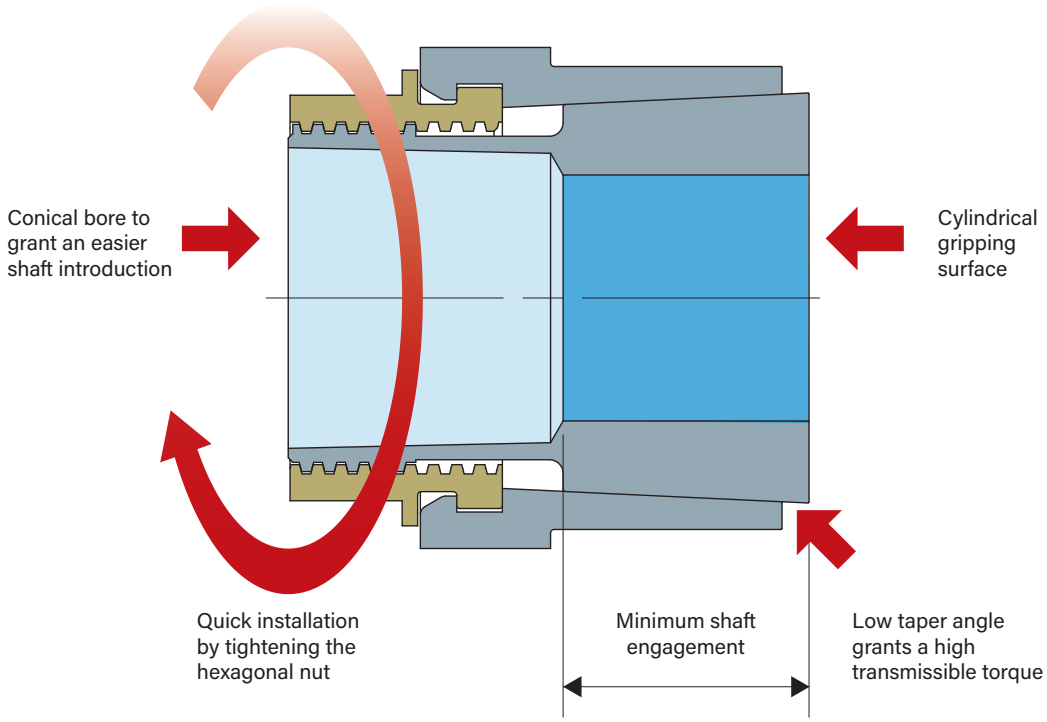


RLA


L
C
B
D1
d
D

RLB


L
A
B
D2
D1
d
D
C


Conical bore to grant an easier shaft introduction
Cylindrical gripping surface
Quick installation by tightening the hexagonal nut
Minimum shaft engagement
Low taper angle grants a high transmissible torque

ROTALOCK RLA - RLB

- Quick and simple installation by tightening the hexagonal nut.
- Self centering; able to transmit bending loads.
- Easy shaft introduction through a conical bore.
- Low taper angle grants a high transmissible torque.
- Zinc plated, corrosion resistant, as standard.
- Nickel plated upon request, for washdown using water jet.
- During installation the hub can slightly displace axially.

RLA

Part number	d inch	D inch	B inch	L inch	D_1 inch	C mm	T_s in lb	T in lb	F lb	P psi
20RLA "00E	5/16"	3/4"	0.422	0.859	0.625	0.141	236	412	2636	21308
20RLA "00F	3/8"	3/4"	0.422	0.859	0.625	0.141	236	495	2636	21308
20RLA "00G	7/16"	7/8""	0.484	0.984	0.750	0.203	367	752	3435	20829
20RLA "00H	1/2"	7/8"	0.484	0.984	0.750	0.203	367	859	3435	20829
20RLA "00J	5/8"	1"	0.609	1.109	0.875	0.203	550	1386	4436	18828

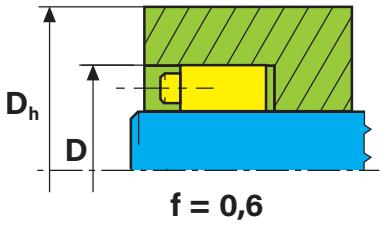
RLB

Part number	d inch	D inch	L inch	B inch	D_1 inch	D_2 inch	C inch	A inch	Ts ft lb	T ft lb	F lbs	P psi
20RLB"00J	5/8"	1" 1/2	1,484	0,734	1,250	1,500	0,328	1,078	93	169	6470	14745
20RLB"00L	3/4"	1" 1/2	1,484	0,734	1,250	1,500	0,328	1,078	93	202	6470	14745
20RLB"00N	7/8"	1" 3/4	1,859	0,859	1,500	1,750	0,453	1,203	117	246	6751	10315
20RLB"01	1"	1" 3/4	1,859	0,859	1,500	1,750	0,453	1,203	117	281	6751	10315
20RLB"01B	1" 1/8	2"	2,234	0,984	1,750	2,000	0,516	1,516	156	364	7750	9185
20RLB"01C	1" 3/16	2"	2,234	0,984	1,750	2,000	0,516	1,516	156	383	7750	9185
20RLB"01D	1" 1/4	2"	2,234	0,984	1,750	2,000	0,516	1,516	156	404	7750	9185
20RLB"01F	1" 3/8	2" 3/8	2,719	1,469	2,000	2,375	0,594	1,906	179	444	7755	5350
20RLB"01G	1" 7/16	2" 3/8	2,719	1,469	2,000	2,375	0,594	1,906	179	466	7755	5353
20RLB"01H	1" 1/2	2" 3/8	2,719	1,469	2,000	2,375	0,594	1,906	179	485	7755	5350
20RLB"01J	1" 5/8	2" 5/8	3,094	1,656	2,250	2,625	0,594	2,281	218	574	8466	4737
20RLB"01K	1" 11/16	2" 5/8	3,094	1,656	2,250	2,625	0,594	2,281	218	595	8466	4737
20RLB"01L	1" 3/4	2" 5/8	3,094	1,656	2,250	2,625	0,594	2,281	218	617	8466	4737
20RLB"01N	1" 7/8	2" 7/8	3,531	1,969	2,500	2,875	0,656	2,656	381	1043	13352	5808
20RLB"01O	1" 15/16	2" 7/8	3,531	1,969	2,500	2,875	0,656	2,656	381	1078	13352	5808
20RLB"02	2 "	2" 7/8	3,531	1,969	2,500	2,875	0,656	2,656	381	1112	13352	5808
20RLB"02B	2" 1/8	3" 1/8	3,719	2,094	2,750	3,125	0,656	2,844	411	1154	13030	4924
20RLB"02C	2" 3/16	3" 1/8	3,719	2,094	2,750	3,125	0,656	2,844	411	1188	13030	4924
20RLB"02D	2" 1/4	3" 1/8	3,719	2,094	2,750	3,125	0,656	2,844	411	1222	13030	4924

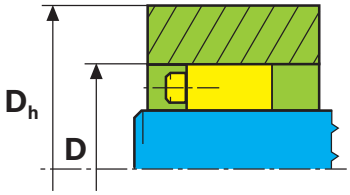
Ts: Install Torque- **T,F**: Transmissible peak torque or axial force- **P**: Hub surface pressure.

Other sizes upon request

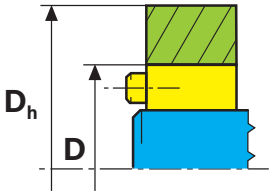
HUB CALCULATION



f = 0,6



f = 0,8



f = 1

D_h = Smallest hub outer diameter

$$D_h \geq D \sqrt{\frac{\sigma_y + (P \cdot f)}{\sigma_y - (P \cdot f)}}$$

D = hub bore diameter
f = form factor
P = hub surface pressure
σ_y = hub material yield strength

Tolerances and surface roughness

Shaft ① and hub bore ② fit tolerances and surfaces roughness ③

CONEX	①	②	③
A	k11 - h11	N11 - H11	0.8 ≤ R_a ≤ 3.2 μm
C d < 38	h6	H7	R_a ≤ 1 μm
C d > 38	h8	H8	R_a ≤ 1 μm
B - D - DS - E - ES - F - FS - FL - H - I - L - K - P - MIDAS - EP	h8	H8	0.8 ≤ R_a ≤ 3.2 μm
ROTALOCK RLA - RLB	h9	H9	1,6 μm ≤ Ra ≤ 3,2 μm

Duty factor

The values T and F on the catalogue must be corrected with a duty factor depending from the type of work.

Motor	Load		
	constant	light overloads	heavy overloads
electric	1	1,5	2
combustion	1,5	2	2,5

TOLERANCE CHART

	d [mm]		Tolerance (t)	d [inch]		Tolerance (t)
	over	to (incl.)	[mm]	over	to (incl.)	[inch]
CONEX A	10	18	0,110	0.391	0.75	0.0043
	18	30	0,130	0.75	1.188	0.0051
	30	50	0,160	1.188	1.938	0.0063
	50	80	0,190	1.938	3.125	0.0075
	80	120	0,220	3.125	4.938	0.0087
	120	180	0,250	4.938	7	0.0098
	180	250	0,290	7	9.843	0.0114
	250	315	0,320	9.843	12.562	0.0126
	315	400	0,360	12.562	15.75	0.0142
	400	500	0,400	15.75	19.687	0.0157

	d [mm]		Tolerance (t)	d [inch]		Tolerance (t)
	over	to (incl.)	[mm]	over	to (incl.)	[inch]
CONEX B - D - DS - E ES - F - FS - FL H - I - L - K - P MIDAS - EP	3	6	0,018	0.125	0.234	0.0007
	6	10	0,022	0.234	0.391	0.0009
	10	18	0,027	0.391	0.75	0.0011
	18	30	0,033	0.75	1.188	0.0013
	30	50	0,039	1.188	1.938	0.0015
	50	80	0,046	1.938	3.125	0.0018
	80	120	0,054	3.125	4.938	0.0021
	120	180	0,063	4.938	7	0.0025
	180	250	0,072	7	9.843	0.0028
	250	315	0,081	9.843	12.562	0.0032
	315	400	0,089	12.562	15.75	0.0035
	400	500	0,097	15.75	19.687	0.0038

Shaft diameter	**d**	+ 0 - t
Hub bore	**D**	+ t - 0

Shaft and hub bore surface roughness	0,8 µm ≤ Ra ≤ 3,2 µm 32 ≤ RMS ≤ 125 micro - inch

	d [mm]		Max Clearance	d [inch]		Max Clearance
	over	to (incl.)	[mm]	over	to (incl.)	[inch]
CONEX C	6	10	0,024	0.234	0.391	0.0009
	10	18	0,029	0.391	0.75	0.0011
	18	30	0,034	0.75	1.188	0.0013
	30	38	0,041	1.188	1.5	0.0016
	38	50	0,078	1.5	1.938	0.0031
	50	80	0,092	1.938	3.125	0.0036
	80	120	0,108	3.125	4.938	0.0043
	120	180	0,126	4.938	7	0.0050
	180	250	0,144	7	9.843	0.0057
	250	315	0,162	9.843	12.562	0.0064
	315	400	0,178	12.562	15.75	0.0070
	400	500	0,194	15.75	19.687	0.0076

Shaft and hub bore surface roughness	Ra ≤ 1 µm RMS ≤ 40 micro - inch

	d [inch]		Tolerance (t)
	over	to (incl.)	[inch]
ROTALOCK RLA - RLB	0.25	0.375	0.0014
	0.375	0.75	0.0017
	0.75	1.188	0.0020
	1.188	1.938	0.0024
	1.938	3.125	0.0029

Shaft diameter	**d**	+ 0 - t
Hub bore	**D**	+ t - 0

Shaft and hub bore surface roughness	1,6 µm ≤ Ra ≤ 3,2 µm 64 ≤ RMS ≤ 125 micro - inch

CONEX - Installation

- Clean and slightly oil all contact surfaces, including screw threads, screw heads, shaft and hub.
  Do not use oils containing Molybdenum Disulphide.
- Lightly tighten the screws and align the hub.
  Use a calibrated torque wrench set approximately 5% higher than the specified tightening torque Ts and tighten the screws in a diametrically opposite sequence, using 1/4 turns for each screw for several passes until 1/4 turns can no longer be achieved.
- Continue to apply the 5% overtorque for a few more passes.
- Reset the torque wrench to the specified tightening torque Ts.
  Check all the screws in either a clockwise or counter-clockwise sequence ensuring that none of the screws turn at this toque value, otherwise repeat the previous steps.

For CONEX A: the silver plated screws are to be fitted in the holes of the front thrust ring with the pull-out threads.

For all the others CONEX, the release threads of the front ring, used for removal, have to be positioned opposite to undrilled and uncutted spaces of the rear ring, and eventually used to release CONEX before the mounting.
For Conex F, FS, FL, see the screws tightening sequence (fig. 6).

CONEX - Removal

Loosen all screws by a few turns.

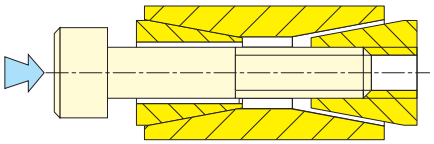
CONEX A
Normally it releases itself thanks to the wide cone angle; if necessary, lightly tap the screws to release the rear thrust ring (fig. 1).
If the front thrust ring is locked, use screws of next size up, screwed in to the removal pull-out threads, located under the silver plated screws, and pull the front ring off (fig. 2).
The release threads are only partially threaded.

CONEX B, D, DS, E, ES, L, K, MIDAS, EP
Remove the screws and screw them into the release threads of the front ring, pressing off the rear ring and releasing CONEX (fig. 3).
Remove the screws from the release threads only after CONEX has been taken out of the hub.

CONEX F, FS, FL
- Dismounting 1 (fig. 4 + 6): Remove the screws and screw them in the threaded bores in the front thrust ring and release it.
- Dismounting 2 (fig. 5 + 6): Screw the screws in the threaded bores in the central flange and release the rear thrust ring.

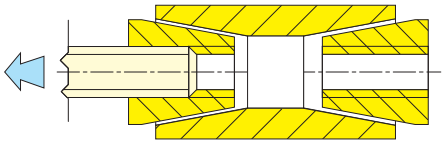
Removal

Fig. 1



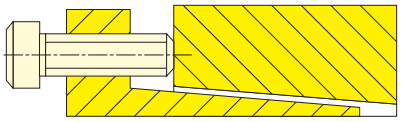
CONEX A

Fig. 2



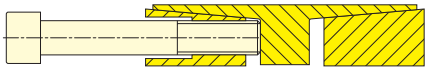
CONEX A

Fig. 3



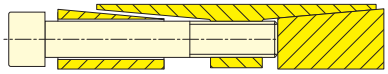
CONEX B, D, DS, E, ES, L, K, EP, MIDAS

Fig. 4



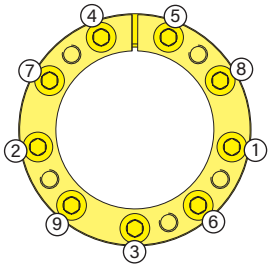
CONEX F, FS, FL

Fig. 5



CONEX F, FS, FL

Fig. 6



Screws tightening and release sequence
The 2 screws beside the cut have to be tighten or released one after the other to avoid any distorsion of the thrust rings.

CONEX F, FS, FL

Conex P - Installation

- Clean and slightly oil all the contact surfaces, including screw threads, screw heads, shaft and hub.
  Do not use oils containing high pressure additives (M_0S_2).
- Release all the screws for 2 - 3 turns and screw at least 3 of the large screws (4) in to the release threads of the front flange (1) in order to release the thrust rings (2 + 3); this step grants an easier mounting of the Conex P (Fig. 1).
- Remove the screws (4) from the release threads of the front flange and screw them in to the threads of the central thrust ring (2).
- Use a calibrated torque wrench set approximately 5% higher than the specified tightening torque Ts_1 and tighten the larger screws (4) in a diametrically opposite sequence, using 1/4 turns for each screw for several passes until 1/4 turns can no longer be achieved.
- Continue to apply the 5% overtorque for a few more passes.
- Repeat these operations for the smaller screws (5) with a tightening torque 5% higher than the specified tightening torque Ts_2.
- Reset the torque wrench to the specified tightening torque Ts_1 and then Ts_2.
  Check all the screws (4 + 5) in either a clockwise or counter-clockwise sequence ensuring that none of the screws turn at this toque value, otherwise repeat the previous steps.

Conex P - Removal

- Release the large screws (4) for 4 - 5 turns; transfer the necessary screws in to the release threads (Fig. 2).
- Tighten the large screws (4) in to the release threads, to release the central thrust ring (2) - Fig. 3, the screws (5) are still tighten.
- Release the small screws (5) for 4 - 5 turns (Fig. 4).
  Tighten again the large screws (4) in to the release threads to release the rear thrust ring (3) - Fig. 4.

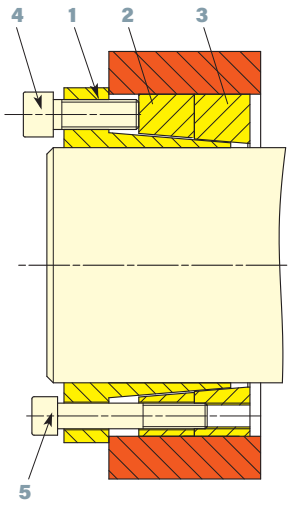


Fig. 1

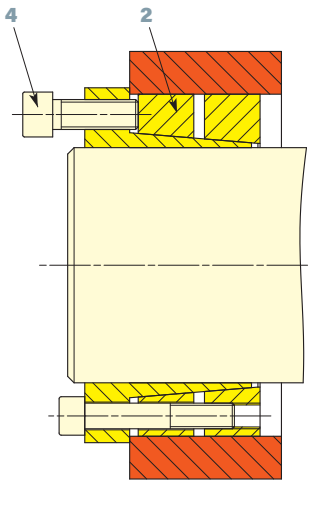


Fig. 2

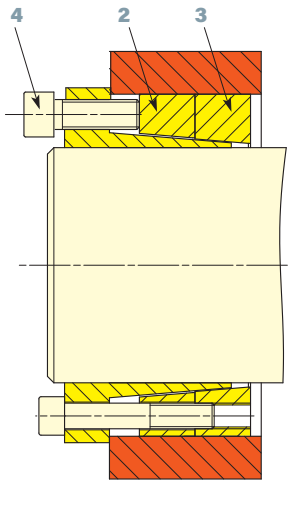


Fig. 3

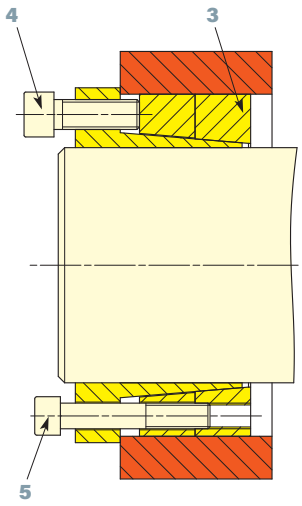


Fig. 4

1 Frontal flange - **2** Central thrust ring - **3** Rear thrust ring - **4** Large screws - **5** Small screws

ROTALOCK RLA-RLB - Installation

Clean the shaft and the hub bore with a solvent (non petroleum based). Insert ROTALOCK and tighten the nut at Ts value.
Do not use lubricants!

ROTALOCK RLA-RLB - Removal

Turn the ROTALOCK locking nut counter clockwise holding the hub, or the shaft, or the hexagonal nut in the outer ring.

Rota Free India Pvt Ltd

!!

Tutti i prodotti Rota Free India non sono macchine, ma componenti e possono essere installati solo in macchine conformi alle direttive EC.
Per prevenire danni a persone o cose:

- solo specialisti dovrebbero lavorare sui nostri prodotti;
- tutte le parti in movimento devono essere protette;
- serraggi ripetuti possono diminuire l'effetto bloccante delle viti e dei dadi, che vanno sostituiti quando necessario;
- tutti i dati nel catalogo sono non impegnativi e non possono essere usati per un'azione legale: è responsabilità del cliente stabilire se il prodotto selezionato soddisfa le esigenze della sua macchina.

Questa pubblicazione annulla e sostituisce ogni precedente edizione o revisione.
Ci riserviamo il diritto di apportare modifiche senza preavviso.

All the Rota Free India products are not machines but components and can be installed only onto machines in conformity to the existing EC directives.
To prevent damages to people or to machinery:

- *only specialists should work on our units;*
- *all the moving parts must be covered;*
- *repeated tightening may decrease the locking effect of the screws and the hexagon nuts: replace them when necessary;*
- *all the data on the catalogue are non-binding and cannot be used for legal claims: it is customer's responsibility to establish whether the selected products meet the requirement of his machinery.*

This publication cancels and replaces any previous edition and revision.
We reserve the right to implement modifications without notice.

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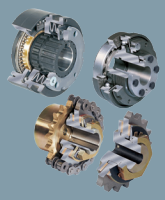
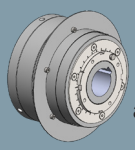
Product Lines:

Conex
Calettatori
Clamping Elements

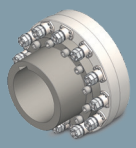
Flexsteel
Giunti lamellari
Disc Pack Couplings



Standard
(Safeguard, Synchron, Safe Lifting, Rota Free)
Zbc (Zero Backlash)
Securex
Limitatori di coppia / *Torque Limiters*



Rota Free-RA
Limitatore di coppia con riaggancio automatico - Rotazione libera dopo lo sgancio
Torque limiter with automatic re-engagement - Idle rotation after disengagement

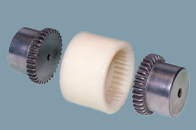


Modular Rota Free - MRF
Grandi limitatori di coppia - Rotazione libera dopo lo sgancio
Large Torque Limiters - Idle rotation after disengagement

Metalflex
Giunti a soffietto
Bellow Couplings

Crowngear
Giunti a denti
Steel Gear Couplings

Compolastic
Giunti elastici
Elastic Couplings



Compogear
Giunti a denti
Nylon Gear Couplings