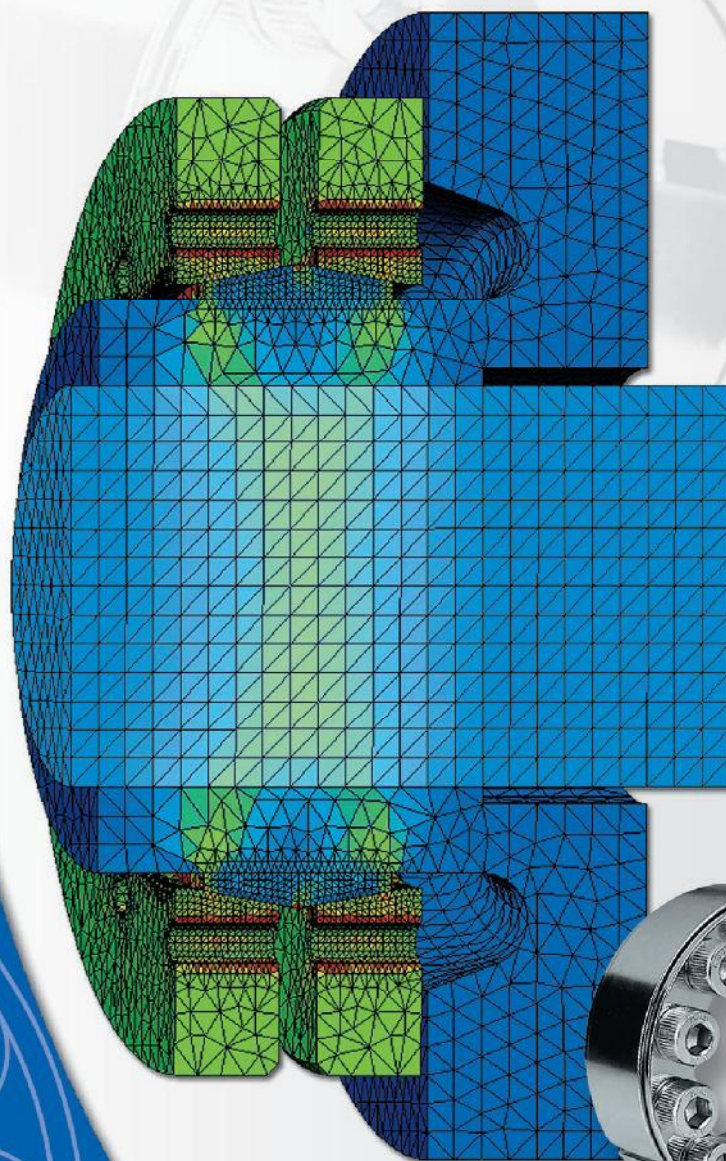


PETER[®]

Drive Components

Get connected

Locking Assemblies
Locking Elements
Shrink Discs





The Company

Gerwah GmbH was founded in 1980.

The idea of innovative and future oriented products has made Gerwah a recognized partner in the machine tools industry. We are a dynamic, spirited and fast growing company with clear goals and open mind that is reflected in the architecture of our new headquarters in Grosswallstadt.

Our product range features two major product lines:

GERWAH

- Flexible, backlash-free shaft couplings
- Backlash-free torque limiters
- Magnetic couplings

PETER

- Locking Assemblies
- Locking Elements
- Shrink Discs



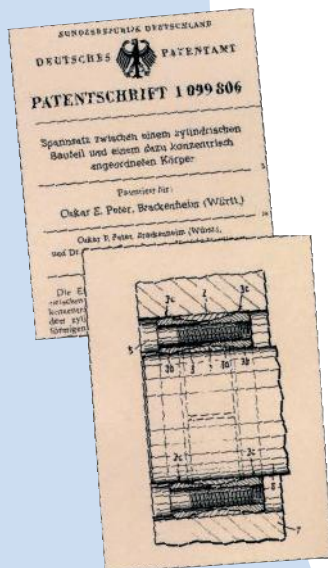
Mr. Oskar Peter patented the locking elements

The name PETER goes back on the inventor of the locking elements, Mr. O.E. Peter. In 1993 PETER became part of the GERWAH Group.

PETER products are *high quality* drive elements used in a wide range of machine building industries.

Our strength – your benefit

- Know How, innovative designs and cutting edge manufacturing plants
- customer oriented employees
- technical assistance and service, both locally and internationally
- qualified sales force
- economic strength
- worldwide presence with subsidiaries and distributors



GERWAH GmbH

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Fax +49 (0) 60 22 / 2204-11
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www.gerwah.com



We are certified acc. to
DIN EN ISO 9001

The PETER product family



Stainless steel locking assemblies, locking elements and shrink discs

	PSV 2001-R Shaft sizes up to 110 mm Torque up to 4.260 Nm	Page 5		PSV 3001-R Shaft sizes up to 80 mm Torque up to 1.267 Nm	Page 8
	PSV 2010.1-R Shaft sizes up to 80 mm Torque up to 3.400 Nm	Page 6		PSV 5003-R Shaft sizes up to 80 mm Torque up to 3.190 Nm	Page 9
	PSV 2061-R Shaft sizes up to 40 mm Torque up to 400 Nm	Page 7	Stainless steel		

Locking Assemblies

	PSV 2001 Shaft sizes up to 200 mm Torque up to 53.000 Nm	Page 11		PSV 2007 Shaft sizes up to 180 mm Torque up to 57.700 Nm	Page 16
	PSV 2003 Shaft sizes up to 260 mm Torque up to 184.000 Nm	Page 12		PSV 2007.3 Shaft sizes up to 180 mm Torque up to 36.000 Nm	Page 17
	PSV 2005 Shaft sizes up to 200 mm Torque up to 151.000 Nm	Page 13		PSV 2010.1 Shaft sizes up to 120 mm Torque up to 23.200 Nm	Page 18
	PSV 2006 Shaft sizes up to 150 mm Torque up to 33.000 Nm	Page 14		PSV 2061 Shaft sizes up to 50 mm Torque up to 1.900 Nm	Page 19
	PSV 2006.3 Shaft sizes up to 150 mm Torque up to 25.600 Nm	Page 15			

Shrink Discs

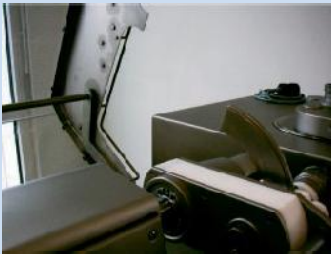
	PSV 5001 Shaft sizes up to 100 mm Torque up to 21.300 Nm	Page 21		PSV 5012 Shaft sizes up to 70 mm Torque up to 5.800 Nm	Page 24
	PSV 5003 Shaft sizes up to 155 mm Torque up to 122.000 Nm	Page 22-23		PSV 5023 Shaft sizes up to 180 mm Torque up to 104.000 Nm	Page 25



Stainless steel Locking Assemblies, Locking Elements and Shrink Discs

Stainless steel Shaft/Hub Connections, Locking Assemblies and Shrink Discs are nowadays increasingly requested for applications in the

Applications



Cover of meat cutting machine,
installed with corrosion resistant
locking assemblies



Bottle capping machine,
resists effects of foam cleaner

- food industry
- chemical industry
- paper industry

Our strength – your benefit

- high resistance against corrosion
- salt spray tested
- stainless steel grades compatible with food applications
- removable even in very aggressive environments, e.g. in applications in salt plants
- upon requested, special custom specific steel grades (e.g. 1.4571) can be used for applications such as vinegar filling machines
- long life cycle

Stainless steel

Locking Assembly PSV 2001-R

- Stainless steel -

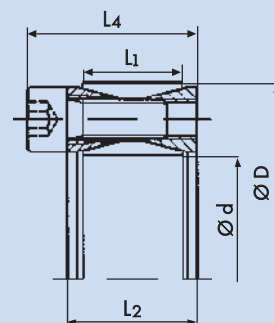


Advantages

- food grade stainless steel
- corrosion protection
- flexibel use

Shaft sizes up to 110 mm

Torque up to 4.260 Nm



Technical Data and Dimensions

Stainless steel

Locking Assembly Dimensions					Trans-missible Torque	Axial Force	Contact surface pressure between locking assembly and		Locking screws	Tightening torque of screws
Ø d mm	Ø D mm	L ₁ mm	L ₂ mm	L ₄ mm	T Nm	F _{ax} kN	Shaft p _w N/mm ²	Hub p _N N/mm ²	G DIN 912	T _A Nm
20	47	17	20	26	110	11	133	57	M6	8
22	47	17	20	26	120	11	121	57	M6	8
24	50	17	20	26	150	12	125	60	M6	8
25	50	17	20	26	155	12	120	60	M6	8
28	55	17	20	26	170	12	107	55	M6	8
30	55	17	20	26	185	12	100	55	M6	8
32	60	17	20	26	265	16	125	67	M6	8
35	60	17	20	26	290	16	114	67	M6	8
38	65	17	20	26	390	20	131	77	M6	8
40	65	17	20	26	410	20	125	77	M6	8
42	75	20	24	32	595	28	138	78	M8	18
45	75	20	24	32	635	28	129	78	M8	18
48	80	20	24	32	680	28	121	73	M8	18
50	80	20	24	32	700	28	116	73	M8	18
55	85	20	24	32	905	33	123	80	M8	18
60	90	20	24	32	990	33	113	76	M8	18
65	95	20	24	32	1225	37	119	82	M8	35
70	110	24	28	38	1875	53	131	84	M10	35
75	115	24	28	38	2010	53	123	80	M10	35
80	120	24	28	38	2.145	53	115	77	M10	35
85	125	24	28	38	2.600	61	124	84	M10	35
90	130	24	28	38	2.760	61	117	81	M10	35
95	135	24	28	38	3.280	69	124	88	M10	35
100	145	26	33	45	3.870	77	122	85	M12	60
110	155	26	33	45	4.260	77	111	79	M12	60

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

20 x 47 PSV 2001-R
d x D Type

Applications

- bottle capping machines
- meat slicing machines
- food conveyor systems
- applications involving cleaning substances

Technical Details

- not self-centering
- tolerances H9/h9
- surface roughness
R_a max 16µm for shaft and hub

Locking Assembly PSV 2010.1-R

- Stainless steel -

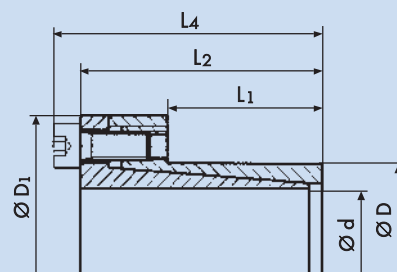


Stainless steel

Advantages

- corrosion protection
- limited space requirements
- reduced contact surface pressure

Shaft sizes up to 80 mm
Torque up to 3.400 Nm



Technical Data and Dimensions

Stainless steel

Locking Assembly Dimensions						Trans- missible Torque	Axial Force	Contact surface pressure between locking assembly and		Locking screws	Tightening torque of screws
Ø d mm	Ø D mm	Ø D ₁ mm	L ₁ mm	L ₂ mm	L ₄ mm	T Nm	F _{ax} kN	P _w N/mm ²	P _N N/mm ²	G DIN 912	T _A Nm
10	16	29	14	27	31	22	4	82	51	M4	2
11	18	32	14	28	32	24	4	75	46	M4	2
12	18	32	14	28	32	26	4	69	46	M4	2
14	23	38	14	28	32	30	4	59	36	M4	2
15	24	44	16	37	43	73	10	107	67	M6	8
16	24	44	16	37	43	78	10	101	67	M6	8
18	26	47	18	39	45	87	10	79	55	M6	8
19	27	49	18	39	45	92	10	75	53	M6	8
20	28	50	18	39	45	97	10	71	51	M6	8
22	32	54	25	46	52	105	10	47	32	M6	8
24	34	56	25	46	52	175	15	64	45	M6	8
25	34	56	25	46	52	180	15	62	45	M6	8
28	39	61	25	46	52	200	15	55	40	M6	8
30	41	62	25	46	52	220	15	51	38	M6	8
32	43	65	25	46	52	310	19	64	48	M6	8
35	47	66	32	53	59	340	19	46	34	M6	8
38	50	72	32	53	59	370	19	42	32	M6	8
40	53	75	32	53	59	390	19	40	30	M6	8
42	55	78	32	53	59	410	19	38	29	M6	8
45	59	86	45	70	78	820	36	48	36	M8	18
48	62	87	45	70	78	880	36	45	35	M8	18
50	65	92	45	70	78	910	36	43	33	M8	18
55	71	98	55	81	89	1.100	41	36	28	M8	18
60	77	104	55	81	89	1.200	41	33	26	M8	18
65	84	111	55	81	89	1.300	41	30	24	M8	18
70	90	119	65	96	106	2.300	65	38	29	M10	35
75	95	126	65	96	106	2.400	65	35	28	M10	35
80	100	131	65	96	106	3.400	86	44	35	M10	35

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

20 x 28 PSV 2010.1-R
d x D Type

Applications

- food packaging equipment
- bottling machines
- paper conveying systems

Technical Details

- self-centering
- high torque values
- tolerances H8/h8
- surface roughness
R_a max 16µm for shaft and hub

Locking Assembly PSV 2061-R

- Stainless steel -



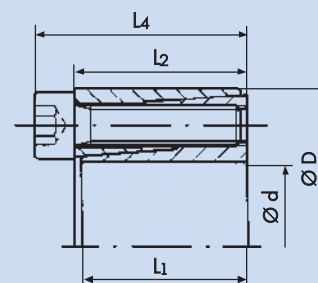
Stainless steel

Advantages

- corrosion resistant
- limited space requirements
- reduced contact surface pressure

Shaft sizes up to 40 mm

Torque up to 400 Nm



Stainless steel

Technical Data and Dimensions

Locking Assembly Dimensions					Trans- missible Torque	Axial Force	Contact surface pressure bet- ween locking assembly and		Locking screws	Tightening torque of screws
Ø d mm	Ø D mm	L ₁ mm	L ₂ mm	L ₄ mm	T Nm	F _{ax} kN	Shaft P _w N/mm ²	Hub P _N N/mm ²	G DIN 912	T _A Nm
6	16	10,5	11	13,5	3	0,9	49	19	M2,5	0,5
6,35	16	10,5	11	13,5	3	0,9	47	19	M2,5	0,5
7	17	10,5	11	13,5	3	0,9	42	17	M2,5	0,5
8	18	10,5	11	13,5	4	0,9	37	17	M2,5	0,5
9	20	12,5	13	15,5	6	1,2	37	17	M2,5	0,5
9,53	20	12,5	13	15,5	6	1,2	35	17	M2,5	0,5
10	20	12,5	13	15,5	6	1,2	33	17	M2,5	0,5
11	22	12,5	13	15,5	7	1,2	30	15	M2,5	0,5
12	22	12,5	13	15,5	7	1,2	26	15	M2,5	0,5
14	26	16,5	17	20	13	1,9	28	15	M3	0,9
15	28	16,5	17	20	14	1,9	26	14	M3	0,9
16	32	16,5	17	21	28	3,5	45	23	M4	2,2
17	35	20	21	25	30	3,5	34	17	M4	2,2
18	35	20	21	25	32	3,5	32	17	M4	2,2
19	35	20	21	25	34	3,5	31	17	M4	2,2
20	38	20	21	26	55	5,5	45	24	M5	4,2
22	40	20	21	26	61	5,5	41	23	M5	4,2
24	47	25	26	32	96	8,0	44	23	M6	7,3
25	47	25	26	32	100	8,0	43	23	M6	7,3
28	50	25	26	32	210	15	57	32	M6	7,3
30	55	25	26	32	220	15	54	29	M6	7,3
32	55	25	26	32	240	15	50	29	M6	7,3
35	60	28	29	35	350	20	55	32	M6	7,3
38	65	28	29	35	380	20	51	29	M6	7,3
40	65	28	29	35	400	20	48	29	M6	7,3

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

20 x 38 PSV 2061-R
d x D Type

Applications

- medical equipment
- tooth belt pulleys
- textile machinery

Technical Details

- self-centering
- tolerances H8/h8
- surface roughness
R_a max 10µm for shaft and hub

Locking Element PSV 3001-R

- Stainless steel -



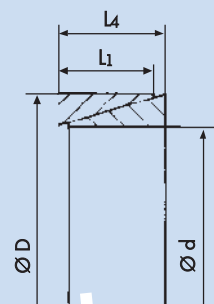
Advantages

- corrosion resistant
- limited radial space requirements
- excellent for limited torque applications

Shaft sizes up to 80 mm
Torque up to 1.267 Nm

Tolerances

d	Shaft	Hub bore
≤ 38	h6	H7
≥ 38	h8	H8



Stainless steel

Technical Data and Dimensions

Locking Elements				Necessary locking force for screws	Transmissible Torque with		Axial Force with	
Ø d mm	Ø D mm	L ₁ mm	L ₄ mm	F N	1 Locking Element T Nm	2 Locking Elements T Nm	1 Locking Element F _{ax} kN	2 Locking Elements F _{ax} kN
14	18	5,3	6,3	23.800	14	21	1.960	2.940
15	19	5,3	6,3	24.250	16	24	2.100	3.150
16	20	5,3	6,3	24.500	18	27	2.230	3.345
17	21	5,3	6,3	24.850	20	30	2.380	3.570
18	22	5,3	6,3	25.300	23	34	2.520	3.780
19	24	5,3	6,3	29.700	25	37	2.650	3.975
20	25	5,3	6,3	30.050	28	42	2.800	4.200
22	26	5,3	6,3	28.850	34	51	3.080	4.620
24	28	5,3	6,3	29.950	41	61	3.360	5.040
25	30	5,3	6,3	32.400	44	66	3.450	5.175
28	32	5,3	6,3	32.600	55	82	3.900	5.850
30	35	5,3	6,3	35.500	63	94	4.200	6.300
32	36	5,3	6,3	36.650	71	106	4.450	6.675
35	40	6,0	7	45.700	97	145	5.550	8.325
36	42	6,0	7	48.200	103	154	5.700	8.550
38	44	6,0	7	49.700	114	171	6.000	9.000
40	45	6,6	8	58.800	139	208	6.950	10.425
42	48	6,6	8	62.600	153	229	7.200	10.800
45	52	8,6	10	92.150	230	345	10.200	15.300
48	55	8,6	10	94.600	261	391	10.900	16.350
50	57	8,6	10	96.500	284	426	11.300	16.950
55	62	8,6	10	101.800	343	514	12.500	18.750
56	64	10,4	12	128.400	431	646	15.400	23.100
60	68	10,4	12	133.400	494	741	16.500	24.750
63	71	10,4	12	137.300	546	819	17.300	25.950
65	73	10,4	12	140.400	581	871	17.900	26.850
70	79	12,2	14	176.000	784	1.176	22.400	33.600
71	80	12,2	14	178.000	812	1.218	22.800	34.200
75	84	12,2	14	189.600	903	1.354	24.100	36.150
80	91	15,0	17	251.000	1.267	1.900	31.500	47.250

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

50 x 57 PSV 3001-R
d x D Type

Applications

- pumps for waste disposal
- industrial washing machines
- cover mounting
- similar applications with space restrictions

Technical Details

- self-releasing
- tolerances Ø d h8
- surface roughness
R_a max 6µm for shaft and hub

Shrink Disc PSV 5003-R

- Stainless steel -



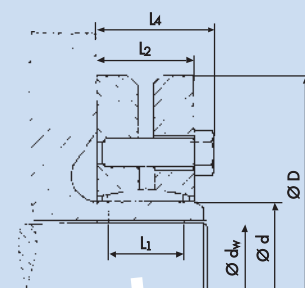
Stainless steel

Advantages

- corrosion resistant
- transmission of high torque values
- reduced contact surface pressure
- external compression design
- good cyclic running features

Please consider the following tolerances:

d w (mm)		ISO	max. clearance S mm
from	to		
18	30	H 6 / j 6	0,017
30	50	H 6 / h 6	0,032
50	80	H 6 / g 6	0,048



Technical Data and Dimensions

Shaft sizes up to 80 mm
Torque up to 3.190 Nm

Stainless steel

Shrink Disc Dimensions						Transmissible Torque	Axial Force	Surface contact pressure	Number of screws	Type of screws	Tightening torque of screws
Ø d mm	Ø d _w mm	Ø D mm	L ₁ mm	L ₂ mm	L ₄ mm	T Nm	F _{ax} kN	P _N N/mm ²	#	G DIN 931	T _A Nm
24	19	50	14	20	23	140	18				
	20					180	18	214	6	M5	3
	21					210	21				
30	24	60	16	22	25	210	21				
	25					240	23	175	7	M5	3
	26					260	24				
36	28	72	18	24	28	280	28				
	30					340	32	176	5	M6	7
	31					360	31				
44	32	80	20	26	30	340	26				
	35					480	38	182	7	M6	7
	36					520	41				
50	38	90	22	28	32	630	47				
	40					730	52	180	9	M6	7
	42					840	57				
55	42	100	23	31	35	590	40				
	45					740	46	145	8	M6	7
	48					900	53				
62	48	110	23	31	35	1150	69				
	50					1280	74	190	12	M6	7
	52					1430	78				
68	50	115	23	31	35	900	50				
	54					1050	54	146	10	M6	7
	66					1460	66				
75	55	138	25	33	38	990	50				
	60					1300	61	139	7	M8	15
	65					1700	73				
80	60	145	25	33	38	1140	53				
	65					1500	64	131	7	M8	15
	70					1900	75				
90	65	155	30	39	45	1750	74				
	70					2200	87	138	10	M8	15
	75					2670	115				
100	70	170	34	44	50	2160	85				
	75					2590	98	133	12	M8	15
	80					3190	112				

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

24 x 50 PSV 5003-R
d x D Type

Applications

- waste disposal equipment
- gearboxes
- conveyors
- similar applications connecting shafts with hollow shafts

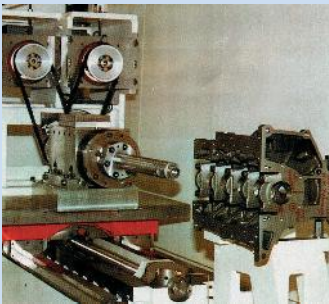
Technical Details

- tolerances Ø d h8
- surface roughness R_a max 16µm for shaft/hub

Applications



Locking assembly with excellent cyclic running capabilities in gearbox gears



Pulleys mounted with locking assemblies



Locking assemblies on the drive side of a compressor



Locking assemblies connecting sprockets to conveyor shafts

Standard Locking Assemblies

Our standard Locking Assemblies are used in a wide variety of industrial applications, such as

- packaging machines
- conveying equipment
- textile machinery
- printing machines

and in many other applications

Our strength – your benefit

- locking assemblies information downloadable as 3D-files on www.gerwah.com
- individual calculation of min. hub outside diameter on our website
- distribution and service worldwide
- technical assistance through our product managers and outside sales people

Locking Assembly PSV 2001

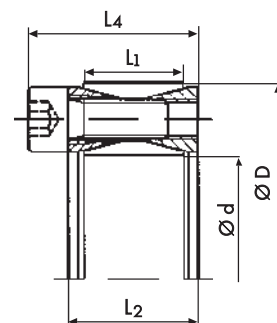


Advantages

- cost effective
- flexible use

Shaft sizes up to 200 mm

Torque up to 53.000 Nm



Technical Data and Dimensions

Locking Assembly Dimensions					Transmissible Torque	Axial Force	Contact surface pressure between locking assembly and		Locking screws	Tightening torque of screws
Ø d mm	Ø D mm	L ₁ mm	L ₂ mm	L ₄ mm	T Nm	F _{ax} kN	Shaft p _w N/mm ²	Hub p _N N/mm ²	G DIN 912	T _A Nm
19	47	17	20	26	260	27	220	90	M6	16
20	47	17	20	26	270	27	210	90	M6	16
22	47	17	20	26	280	27	210	100	M6	16
24	50	17	20	26	360	30	210	100	M6	16
25	50	17	20	26	380	30	210	100	M6	16
28	55	17	20	26	420	34	200	100	M6	16
30	55	17	20	26	450	34	190	100	M6	16
32	60	17	20	26	640	40	210	110	M6	16
35	60	17	20	26	700	40	200	110	M6	16
38	65	17	20	26	890	47	200	120	M6	16
40	65	17	20	26	940	47	200	120	M6	16
42	75	20	24	32	1540	73	230	130	M8	38
45	75	20	24	32	1650	73	210	130	M8	38
48	80	20	24	32	1760	73	190	110	M8	38
50	80	20	24	32	1830	73	190	120	M8	38
55	85	20	24	32	2350	85	200	130	M8	38
60	90	20	24	32	2560	85	180	120	M8	38
65	95	20	24	32	3.170	98	190	130	M8	38
70	110	24	28	38	4.700	134	210	130	M10	75
75	115	24	28	38	5.000	134	190	130	M10	75
80	120	24	28	38	5.300	134	180	120	M10	75
85	125	24	28	38	6.500	154	200	130	M10	75
90	130	24	28	38	6.900	154	180	130	M10	75
95	135	24	28	38	8.200	173	200	140	M10	75
100	145	26	33	45	9.900	197	200	140	M12	130
110	155	26	33	45	10.800	187	180	130	M12	130
120	165	26	33	45	13.500	226	190	140	M12	130
130	180	34	38	50	18.300	282	170	120	M12	130
140	190	34	38	50	21.700	310	170	130	M12	130
150	200	34	38	50	25.300	338	170	130	M12	130
160	210	34	38	50	29.300	367	170	130	M12	130
170	225	38	44	58	33.000	389	160	120	M14	210
180	235	38	44	58	38.000	424	170	130	M14	210
190	250	46	52	66	47.000	495	150	110	M14	210
200	260	46	52	66	53.000	531	160	120	M14	210

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

20 x 47 PSV 2001
d x D Type

Applications

- pulleys
- gearboxes
- conveyors
- handling and automation systems
- similar applications requiring a high degree of flexibility

Technical Details

- not self-centering
- tolerances H9/h9
- surface roughness
R_a max 16µm for shaft and hub

Locking Assembly PSV 2003

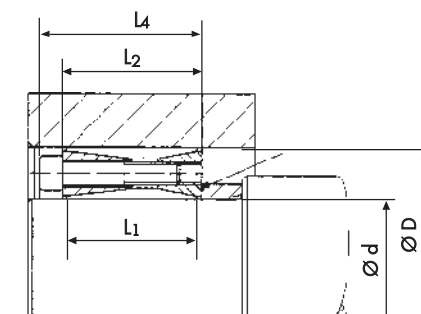


Advantages

- no axial movement during installation
- flexible use

Shaft sizes up to 260 mm

Torque up to 184.000 Nm



Important: Step in shaft or hub necessary for removal.

Technical Data and Dimensions

Locking Assembly Dimensions					Transmissible Torque	Axial Force	Contact surface pressure between locking assembly and		Locking screws	Tightening torque of screws
Ø d mm	Ø D mm	L ₁ mm	L ₂ mm	L ₄ mm	T Nm	F _{ax} kN	Shaft P _w N/mm ²	Hub P _N N/mm ²	G DIN 912	T _A Nm
45	85	44	50	60	3140	140	278	148	M10	84
50	90	44	50	60	3470	139	253	141	M10	84
55	95	44	50	60	3800	138	223	130	M10	84
60	100	44	50	60	4130	138	208	125	M10	84
65	115	56	62	74	6520	201	230	130	M12	145
70	120	56	62	74	7000	200	205	120	M12	145
80	130	56	62	74	11900	298	269	165	M12	145
90	140	56	62	74	13300	296	240	154	M12	145
100	160	74	80	94	20100	402	217	136	M14	235
110	170	74	80	94	25400	462	231	154	M14	235
120	180	74	80	94	29600	493	227	151	M14	235
130	190	74	80	94	34000	523	223	153	M14	235
140	200	74	80	94	38800	554	219	153	M14	235
150	210	74	80	94	43900	585	217	155	M14	235
160	230	88	94	110	61400	768	218	152	M16	365
170	240	88	94	110	68900	811	217	154	M16	365
180	250	88	94	110	80300	892	227	164	M16	365
190	260	88	94	110	89500	942	227	166	M16	365
200	270	88	94	110	102000	1020	235	174	M16	365
220	300	110	116	134	126000	1145	194	142	M18	500
240	320	110	116	134	157000	1310	203	152	M18	500
260	340	110	116	134	184000	1420	203	155	M18	500

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

45 x 85 PSV 2003
d x D Type

Applications

- presses
- shredders
- water power plants

Technical Details

- self-centering
- tolerances H8/h8
- surface roughness
R_a max 16µm for shaft and hub

Locking Assembly PSV 2005

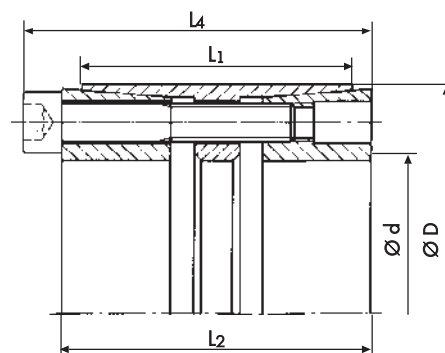


Advantages

- transmission of high torque values
- robust design

Shaft sizes up to 200 mm

Torque up to 151.000 Nm



Technical Data and Dimensions

Locking Assembly Dimensions					Transmissible Torque	Axial Force	Contact surface pressure between locking assembly and		Locking screws	Tightening torque of screws
Ø d mm	Ø D mm	L ₁ mm	L ₂ mm	L ₄ mm	T Nm	F _{ax} kN	Shaft p _w N/mm ²	Hub p _N N/mm ²	G DIN 912	T _A Nm
24	55	32	40	46	800	66.800	308	134	M6	17
25	55	32	40	46	840	66.800	295	134	M6	17
28	55	32	40	46	940	66.800	264	134	M6	17
30	55	32	40	46	1000	66.800	246	134	M6	17
35	60	44	54	60	1360	78.000	174	101	M6	17
40	75	44	54	62	2880	144.000	281	150	M8	41
45	75	44	54	62	3240	144.000	250	150	M8	41
50	80	56	64	72	4.120	165.000	198	124	M8	41
55	85	56	64	72	5.090	185.000	203	131	M8	41
60	90	56	64	72	6.170	206.000	207	138	M8	41
65	95	56	64	72	6.690	206.000	191	131	M8	41
70	110	70	78	88	11.800	338.000	229	145	M10	83
75	115	70	78	88	12.700	338.000	213	139	M10	83
80	120	70	78	88	14.900	372.000	220	147	M10	83
85	125	70	78	88	15.800	372.000	207	141	M10	83
90	130	70	78	88	18.200	405.000	213	148	M10	83
95	135	70	78	88	19.300	405.000	202	142	M10	83
100	145	90	101	113	27.700	555.000	210	145	M12	145
110	155	90	101	113	33.300	605.000	209	148	M12	145
120	165	90	101	113	42.400	706.000	223	162	M12	145
140	190	104	116	130	67.400	963.000	217	160	M14	230
160	210	104	116	130	88.100	1.101.000	217	166	M14	230
180	235	134	148	164	127.000	1.416.000	190	145	M16	355
200	260	134	148	164	151.000	1.511.000	182	140	M16	355

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

24 x 55 PSV 2005
d x D Type

Applications

- drives in mechanical presses
- shredders
- rock crushers
- similar applications with high torque requirements

Technical Details

- self-centering
- tolerances H8/h8
- surface roughness
R_a max 16µm for shaft and hub

Locking Assembly PSV 2006

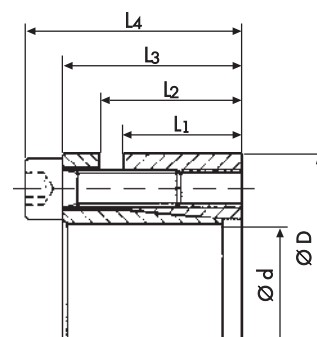


Advantages

- cost effective
- quick installation

Shaft sizes up to 150 mm

Torque up to 33.000 Nm



Technical Data and Dimensions

Locking Assembly Dimensions						Transmissible Torque	Axial Force	Contact surface pressure between locking assembly and		Locking screws	Tightening torque of screws
Ø d mm	Ø D mm	L ₁ mm	L ₂ mm	L ₃ mm	L ₄ mm	T Nm	F _{ax} kN	P _w N/mm ²	P _N N/mm ²	G DIN 912	T _A Nm
19	47	17	22	28	34	360	30	280	120	M6	14
20	47	17	22	28	34	360	30	280	120	M6	14
22	47	17	22	28	34	400	30	270	120	M6	14
24	50	17	22	28	34	440	40	240	120	M6	14
25	50	17	22	28	34	560	40	280	140	M6	14
28	55	17	22	28	34	630	40	250	130	M6	14
30	55	17	22	28	34	650	40	240	130	M6	14
32	60	17	22	28	34	950	50	290	150	M6	14
35	60	17	22	28	34	1.100	50	270	150	M6	14
38	65	17	22	28	34	1.100	50	250	150	M6	14
40	65	17	22	28	34	1.200	50	230	150	M6	14
45	75	20	25	33	41	2.200	70	290	170	M8	35
50	80	20	25	33	41	2.400	90	260	160	M8	35
55	85	20	25	33	41	3.100	90	270	170	M8	35
60	90	20	25	33	41	3.400	90	240	160	M8	35
65	95	20	25	33	41	4.100	90	250	170	M8	35
70	110	24	30	40	50	6.300	120	280	180	M10	70
75	115	24	30	40	50	6.700	120	260	170	M10	70
80	120	24	30	40	50	7.100	120	250	170	M10	70
85	125	24	30	40	50	8.800	130	260	180	M10	70
90	130	24	30	40	50	9.100	130	250	170	M10	70
95	135	24	30	40	50	10.600	130	260	180	M10	70
100	145	26	32	44	56	13.400	170	270	190	M12	125
110	155	26	32	44	56	14.600	170	240	180	M12	125
120	165	26	32	44	56	17.900	200	250	180	M12	125
130	180	34	40	52	64	26.000	270	240	170	M14	190
140	190	34	40	54	68	27.000	270	210	150	M14	190
150	200	34	40	54	68	33.000	320	230	170	M14	190

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

20 x 47 PSV 2006
d x D Type

Applications

- sprockets
- conveyor drums
- similar applications requiring a strong and economical connection
- conveying equipment
- pulleys

Technical Details

- self-centering
- tolerances H8/h8
- surface roughness R_a max 16µm for shaft and hub

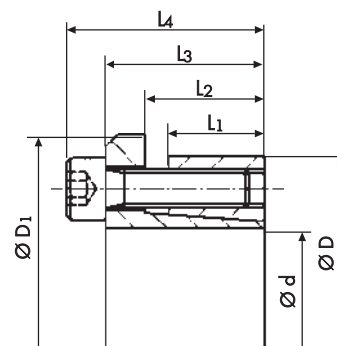
Locking Assembly PSV 2006.3



Advantages

- no axial movement during installation

Shaft sizes up to 150 mm
Torque up to 25.600 Nm



Technical Data and Dimensions

Locking Assembly Dimensions							Trans-missible Torque T Nm	Axial Force F _{ax} kN	Contact surface pressure between locking assembly and		Locking screws G DIN 912	Tightening torque of screws T _A Nm
Ø d mm	Ø D mm	Ø D ₁ mm	L ₁ mm	L ₂ mm	L ₃ mm	L ₄ mm			Shaft p _w N/mm ²	Hub p _N N/mm ²		
19	47	56	17	22	28	34	270	30	220	90	M6	17
20	47	56	17	22	28	34	280	30	220	90	M6	17
22	47	56	17	22	28	34	310	30	200	90	M6	17
24	50	59	17	22	28	34	400	30	220	110	M6	17
25	50	59	17	22	28	34	440	30	210	110	M6	17
28	55	64	17	22	28	34	490	30	200	100	M6	17
30	55	64	17	22	28	34	530	30	190	100	M6	17
32	60	69	17	22	28	34	760	50	210	110	M6	17
35	60	69	17	22	28	34	820	50	190	110	M6	17
38	65	74	17	22	28	34	890	50	190	110	M6	17
40	65	74	17	22	28	34	940	50	190	100	M6	17
45	75	84	20	25	33	41	1700	60	230	130	M8	41
50	80	84	20	25	33	41	1900	90	210	130	M8	41
55	85	94	20	25	33	41	2400	90	210	130	M8	41
60	90	99	20	25	33	41	2700	90	190	120	M8	41
65	95	104	20	25	33	41	3200	90	200	130	M8	41
70	110	119	24	30	40	50	4900	120	220	140	M10	83
75	115	124	24	30	40	50	5200	120	200	130	M10	83
80	120	129	24	30	40	50	5500	120	190	120	M10	83
85	125	134	24	30	40	50	6600	130	200	130	M10	83
90	130	139	24	30	40	50	7000	130	190	130	M10	83
95	135	144	24	30	40	50	8200	130	200	140	M10	83
100	145	154	26	32	44	56	10.100	170	210	150	M12	145
110	155	164	26	32	44	56	11.000	170	190	140	M12	145
120	165	174	26	32	44	56	13.600	200	210	140	M12	145
130	180	189	34	40	52	64	19.000	270	190	140	M12	145
140	190	199	34	40	54	68	21.800	270	180	130	M14	230
150	200	209	34	40	54	68	25.600	320	190	140	M14	230

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

20 x 47 PSV 2006.3
d x D Type

Applications

- sprockets
- conveyor drums
- similar applications requiring a strong and economical connection
- conveying equipment
- pulleys

Technical Details

- self-centering
- tolerances H8/h8
- surface roughness
R_a max 16µm for shaft and hub

Locking Assembly PSV 2007

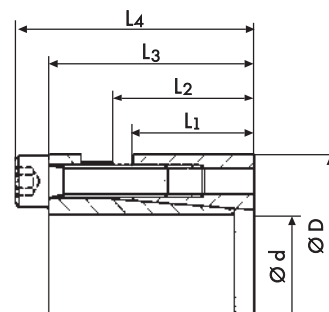


Advantages

- excellent usage of space
- high torque values

Shaft sizes up to 180 mm

Torque up to 57.700 Nm



Technical Data and Dimensions

Locking Assembly Dimensions						Transmissible Torque	Axial Force	Contact surface pressure between locking assembly and Hub		Locking screws	Tightening torque of screws
Ø d mm	Ø D mm	L ₁ mm	L ₂ mm	L ₃ mm	L ₄ mm	T Nm	F _{ax} kN	P _w N/mm ²	P _N N/mm ²	G DIN 912	T _A Nm
19	47	26	31	39	45	350	31	230	100	M6	17
20	47	26	31	39	45	380	33	230	100	M6	17
22	47	26	31	39	45	430	33	220	90	M6	17
24	50	26	31	39	45	520	50	220	100	M6	17
25	50	26	31	39	45	580	50	230	100	M6	17
28	55	26	31	39	45	690	50	220	110	M6	17
30	55	26	31	39	45	750	50	200	120	M6	17
32	60	26	31	39	45	910	67	230	110	M6	17
35	60	26	31	39	45	1000	67	200	120	M6	17
38	65	26	31	39	45	1200	67	210	120	M6	17
40	65	26	31	39	45	1300	67	200	120	M6	17
42	75	30	36	47	55	2.100	67	230	140	M8	41
45	75	30	36	47	55	2.300	92	230	140	M8	41
48	80	30	36	47	55	2.500	110	210	130	M8	41
50	80	30	36	47	55	2.500	120	210	130	M8	41
55	85	30	36	47	55	3.100	120	220	140	M8	41
60	90	30	36	47	55	3.300	120	200	150	M8	41
65	95	30	36	47	55	4.000	120	210	140	M8	41
70	110	40	46	57	67	6.700	190	220	140	M10	83
75	115	40	46	62	72	7.400	190	210	140	M10	83
80	120	40	46	62	72	7.900	190	200	130	M10	83
85	125	40	46	62	72	9.500	240	210	140	M10	83
90	130	40	46	62	72	10.100	240	200	140	M10	83
95	135	40	46	62	72	11.900	240	210	150	M10	83
100	145	46	52	77	89	15.400	280	210	150	M12	145
110	155	46	52	77	89	16.900	280	190	140	M12	145
120	165	46	52	77	89	22.100	350	210	150	M12	145
130	180	46	52	77	89	23.600	420	190	140	M12	145
140	190	51	59	84	98	30.200	450	190	140	M14	230
150	200	51	59	84	98	36.400	490	200	150	M14	230
160	210	51	59	84	98	42.700	530	180	140	M14	230
180	235	51	59	84	98	57.700	640	190	150	M14	230

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

20 x 47 PSV 2007
d x D Type

Applications

- sprockets
- conveyor drums
- similar applications requiring a strong and economical connection
- conveying equipment
- pulleys

Technical Details

- self-centering
- tolerances H8/h8
- surface roughness R_a max 16µm for shaft and hub

Locking Assembly PSV 2007.3

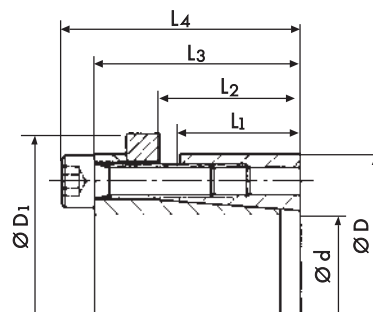


Advantages

- excellent usage of space
- no axial movement during installation

Shaft sizes up to 180 mm

Torque up to 36.000 Nm



Technical Data and Dimensions

Locking Assembly Dimensions							Trans- missible Torque T Nm	Axial Force F _{ax} kN	Contact surface pressure between locking assembly and		Locking screws G DIN 912	Tightening torque of screws T _A Nm
Ø d mm	Ø D mm	Ø D ₁ mm	L ₁ mm	L ₂ mm	L ₃ mm	L ₄ mm			Shaft p _w N/mm ²	Hub p _N N/mm ²		
19	47	53	26	31	39	45	290	20	230	96	M6	17
20	47	53	26	31	39	45	310	23	230	96	M6	17
22	47	53	26	31	39	45	360	23	210	97	M6	17
24	50	56	26	31	39	45	420	35	210	100	M6	17
25	50	56	26	31	39	45	470	35	220	110	M6	17
28	55	61	26	31	39	45	580	35	200	110	M6	17
30	55	61	26	31	39	45	640	35	220	120	M6	17
32	60	66	26	31	39	45	780	47	200	110	M6	17
35	60	66	26	31	39	45	840	47	200	120	M6	17
38	65	71	26	31	39	45	1000	47	200	120	M6	17
40	65	71	26	31	39	45	1100	47	230	140	M6	17
42	75	81	30	36	47	55	1900	47	220	140	M8	41
45	75	81	30	36	47	55	1900	65	220	140	M8	41
48	80	86	30	36	47	55	2100	74	220	140	M8	41
50	80	86	30	36	47	55	2200	86	220	140	M8	41
55	85	91	30	36	47	55	2700	86	220	140	M8	41
60	90	96	30	36	47	55	2900	86	200	130	M8	41
65	95	101	30	36	47	55	3500	86	210	140	M8	41
70	110	116	40	46	57	67	5700	140	220	140	M10	83
75	115	121	40	46	62	72	6200	150	220	150	M10	83
80	120	126	40	46	62	72	6700	140	200	140	M10	83
85	125	131	40	46	62	72	8000	170	220	160	M10	83
90	130	136	40	46	62	72	8500	170	200	140	M10	83
95	135	141	40	46	62	72	10.000	170	190	140	M10	83
100	145	151	46	52	77	89	13.300	200	200	150	M12	145
110	155	161	46	52	77	89	14.600	200	200	180	M12	145
120	165	171	46	52	77	89	19.100	250	220	160	M12	145
130	180	186	46	52	77	89	20.400	300	200	140	M12	145
140	190	196	51	59	84	98	25.000	350	190	140	M14	230
150	200	206	51	59	84	98	30.100	350	200	150	M14	230
160	210	216	51	59	84	98	26.600	330	110	85	M14	230
180	235	241	51	59	84	98	36.000	400	120	90	M14	230

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

20 x 47 PSV 2007.3
d x D Type

Applications

- sprockets
- conveyor drums
- similar applications requiring a strong and economical connection
- conveying equipment
- pulleys

Technical Details

- self-centering
- tolerances H8/h8
- surface roughness R_a max 16µm for shaft and hub

Locking Assembly PSV 2010.1

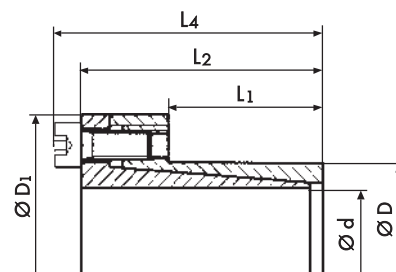


Advantages

- very small cross section
- limited contact surface pressure
- thin hubs with smaller outside diameters

Shaft sizes up to 120 mm

Torque up to 23.200 Nm



Technical Data and Dimensions

Locking Assembly Dimensions						Transmissible Torque	Axial Force	Contact surface pressure between locking assembly and Shaft		Locking screws	Tightening torque of screws
Ø d mm	Ø D mm	Ø D ₁ mm	L ₁ mm	L ₂ mm	L ₄ mm	T Nm	F _{ax} kN	P _w N/mm ²	P _N N/mm ²	G DIN 912	T _A Nm
8	15	32	12	24	28	30	7,2	190	110	M4	5
9	16	32	14	27	31	30	7,2	150	90	M4	5
10	16	32	14	27	31	40	9	140	90	M4	5
11	18	34	14	27	31	50	9	180	110	M4	5
12	18	34	14	27	31	55	9	160	110	M4	5
14	23	39	14	27	31	60	9	140	80	M4	5
15	24	45	16	36	42	100	13	160	100	M6	5
16	24	45	16	36	42	110	13	150	100	M6	17
18	26	47	18	38	44	160	18	160	110	M6	17
19	27	48	18	38	44	170	18	150	110	M6	17
20	28	49	18	38	44	170	21	140	100	M6	17
22	32	54	25	45	51	230	21	110	80	M6	17
24	34	56	25	45	51	250	21	100	70	M6	17
25	34	56	25	45	51	260	21	100	70	M6	17
28	39	61	25	45	51	370	31	110	80	M6	17
30	41	63	25	45	51	470	31	120	90	M6	17
32	43	65	30	50	56	510	31	100	70	M6	17
35	47	69	30	50	56	740	42	120	90	M6	17
38	50	72	30	50	56	800	42	110	80	M6	17
40	53	75	32	52	58	950	53	110	80	M6	17
42	55	77	32	52	70	990	78	100	80	M8	42
45	59	85	40	64	72	1800	78	130	100	M8	42
48	62	88	40	64	72	1900	78	120	90	M8	42
50	65	92	50	74	82	2400	97	120	100	M8	42
55	71	98	50	74	82	2700	97	100	80	M8	42
60	77	104	50	74	82	3000	97	100	80	M8	42
65	84	111	50	74	82	3200	97	90	70	M8	42
70	90	122	60	91	101	4300	123	90	70	M10	84
75	95	126	60	91	101	6200	197	90	70	M10	84
80	100	131	65	96	106	7900	237	100	80	M10	84
85	106	137	65	96	106	8400	237	90	70	M10	84
90	112	143	65	96	106	10.400	276	100	50	M10	84
120	155	195	90	127	139	23.200	465	90	70	M12	145

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

20 x 28 PSV 2010.1
d x D Type

Applications

- pulleys
- packaging machines
- textile machinery
- automation and handling equipment
- similar applications requiring transmission of high torque values and limited surface pressure

Technical Details

- self-centering
- tolerances H8/h8
- surface roughness R_a max 16µm for shaft and hub

Locking Assembly PSV 2061

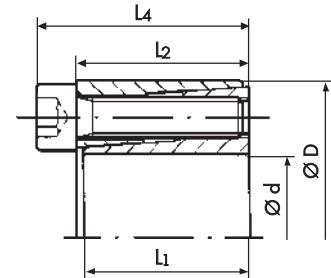


Advantages

- limited space requirements
- self centering
- very small shaft diameters possible

Shaft sizes up to 50 mm

Torque up to 1.900 Nm



Technical Data and Dimensions

Locking Assembly Dimensions					Transmissible Torque	Axial Force	Contact surface pressure between locking assembly and		Locking screws	Tightening torque of screws
Ø d mm	Ø D mm	L ₁ mm	L ₂ mm	L ₄ mm	T Nm	F _{ax} kN	Shaft P _w N/mm ²	Hub P _N N/mm ²	G DIN 912	T _A Nm
6	16	10,5	11	13,5	6	2,0	150	55	M2,5	1,2
6,35	16	10,5	11	13,5	6	2,0	140	55	M2,5	1,2
7	17	10,5	11	13,5	8	2,0	125	55	M2,5	1,2
8	18	10,5	11	13,5	10	2,5	110	50	M2,5	1,2
9	20	12,5	13	15,5	15	3,0	120	55	M2,5	1,2
9,53	20	12,5	13	15,5	15	3,0	110	55	M2,5	1,2
10	20	12,5	13	15,5	15	3,0	110	55	M2,5	1,2
11	22	12,5	13	15,5	18	3,0	100	20	M2,5	1,1
12	22	12,5	13	15,5	20	3,0	90	50	M2,5	1,2
14	26	16,5	17	20	35	5,0	105	55	M3	2,1
15	28	16,5	17	20	40	5,0	100	50	M3	2,1
16	32	20	17	21	70	8,0	130	65	M4	4,9
17	35	20	21	25	75	8,0	120	60	M4	4,9
18	35	20	21	25	80	8,0	115	60	M4	4,9
19	35	20	21	25	85	8,0	110	60	M4	4,9
20	38	20	21	26	150	15,0	140	75	M5	9,7
22	40	20	21	26	160	14,0	130	70	M5	9,7
24	47	25	26	32	250	20,0	140	75	M6	16,5
25	47	25	26	32	260	20,0	135	75	M6	16,5
25,4	47	25	26	32	265	20,0	130	75	M6	16,5
28	50	25	26	32	440	30,0	185	100	M6	16,5
30	55	25	26	32	470	30,0	175	95	M6	16,5
32	55	25	26	32	500	30,0	165	95	M6	16,5
35	60	28	29	37	730	40,0	165	95	M6	16,5
38	65	28	29	37	800	40,0	155	90	M6	16,5
40	65	28	29	37	840	40,0	145	90	M6	16,5
42	75	35	36	44	1.200	55,0	165	90	M8	40
45	75	35	36	44	1.300	55,0	155	90	M8	40
48	80	35	36	44	1.850	75,0	195	115	M8	40
50	80	35	36	44	1.900	75,0	185	115	M8	40

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

20 x 38 PSV 2061
d x D Type

Applications

- linear motion
- packaging equipment
- automation and handling equipment
- similar applications with tight space restrictions, requiring low surface pressure
- pulleys
- textile machinery

Technical Details

- self-centering
- tolerances H8/h8
- surface roughness R_f max 10µm for shaft and hub

Applications



Gear box



Wind mill gearbox



Custom specific solution



Welding equipment – pinion mounted with shrink disc

Shrink Discs

Our shrink discs are manufactured from high quality forged rings. They are used in a variety of fields, including

- gearboxes
- pumps
- hollow shaft connections
- robots
- wind energy systems

and in many other applications

Our strength – your benefit

- high quality forged rings from size 50 mm and therefore perfect tolerances and increased safety factors
- optimum outside diameters
- tightening torque values are lasered onto the face of the shrink disc, providing increased protection against wrong installation

Shrink Disc PSV 5001

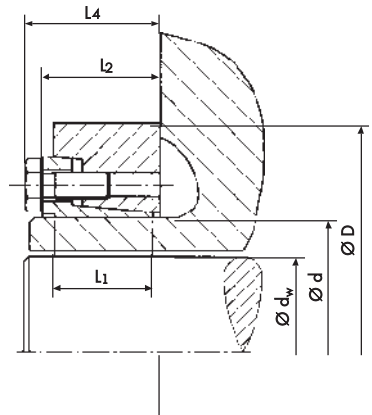


Advantages

- transmission of high torque values
- external locking solution
- excellent cyclic running capabilities
- installation is complete when 2 rings are flush

Please consider the following tolerances:

d w (mm)		ISO	max. clearance S mm
from	to		
18	30	H 6 / j 6	0,017
30	50	H 6 / h 6	0,032
50	80	H 6 / g 6	0,048
80	120	H 7 / g 6	0,069



Technical Data and Dimensions

Shaft sizes up to 100 mm
Torque up to 21.300 Nm

Shrink Disc Dimensions						Transmissible Torque	Axial Force	Locking screws	Tightening torque of screws
Ø d mm	d_w mm	Ø D mm	L1 mm	L2 mm	L4 mm	T Nm	F_ax kN	G DIN 931	T_A Nm
24	19	50	14	18	22	160	17	M6	12
	20					210	20		
	21					280	25		
30	24	60	16	20	24	270	23	M6	12
	25					320	25		
	26					360	28		
36	28	72	18	22	28	440	32	M8	30
	30					610	41		
	31					820	50		
44	34	80	20	24	30	690	41	M8	30
	35					770	44		
	36					920	50		
50	38	90	22	26	32	1500	80	M8	35
	40					1700	85		
	42					1900	95		
55	42	100	23	29	35	1600	80	M8	35
	45					2000	90		
	48					2400	100		
62	48	110	23	29	35	2200	90	M8	35
	50					2400	100		
	52					2700	105		
68	50	115	23	29	35	2400	95	M8	35
	55					3000	110		
	60					3800	130		
75	55	138	25	31	38	3700	240	M10	70
	60					4700	160		
	65					5800	180		
80	60	145	25	31	38	4200	140	M10	70
	65					5200	160		
	70					6300	180		
90	65	155	30	38	45	5900	180	M10	70
	70					7100	200		
	75					8500	230		
100	70	170	34	45	50	7400	210	M10	70
	75					8900	240		
	80					10400	260		
110	80	185	39	49	57	12600	310	M12	121
	85					14600	340		
	90					16900	370		
125	90	215	42	53	61	16400	360	M12	121
	95					18800	400		
	100					21300	430		

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

24 x 50 PSV 5001
d x D Type

Applications

- robots
- wind energy systems
- gearboxes
- conveying equipment
- automation and handling equipment
- similar applications involving shafts and hollow shafts

Technical Details

- tolerance Ø d h8
- surface roughness R_a max 16µm for shaft and hub

Shrink Disc PSV 5003



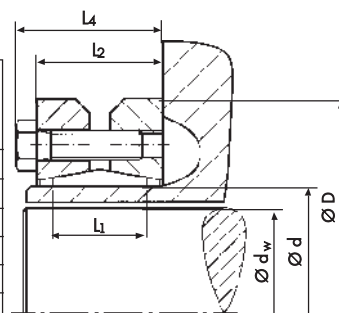
Advantages

- transmission of high torque values
- external locking solution
- excellent cyclic running capabilities

Shaft sizes up to 155 mm
Torque up to 122.000 Nm

Please consider the following tolerances:

d w (mm)		ISO	max. clearance S mm
from	to		
10	18	H 6 / j 6	0,014
18	30		0,017
30	50		0,032
50	80	H 6 / g 6	0,048
80	120	H 7 / g 6	0,069
120	180		0,079



Technical Data and Dimensions

Shrink Disc Dimensions						Transmissible Torque	Axial Force	Contact surface pressure	Number of locking screws	Locking screws	Tightening torque of screws
Ø d mm	Ø d_w mm	Ø D mm	L1 mm	L2 mm	L4 mm	T Nm	F_ax kN	N/mm²	#	G DIN 931	T_A Nm
14	10	38	10	15	19	40	10	343	4	M5	3
	11					50	12				
	12					65	14				
16	12	41	12	17	21	65	14	313	5	M5	3
	13					80	16				
	14					95	18				
18	14	44	12	17	21	85	16	297	4	M5	4
	15					100	18				
	16					130	20				
20	15	46	12	17	21	110	20	334	5	M5	4
	16					130	22				
	17					150	24				
21	16	50	14	20	24	180	31	409	6	M5	5
	17					220	34				
	18					270	37				
24	19	50	15	21	25	220	32	357	6	M5	5
	20					270	35				
	21					320	37				
30	24	60	18	23	27	390	38	292	7	M5	5
	25					430	41				
	26					470	43				
36	28	72	19	25	29	440	50	307	5	M6	12
	30					570	58				
	31					630	58				
38	29	72	21	27	31	670	62	340	6	M6	12
	30					730	65				
	31					740	64				
40	30	75	21	27	31	620	60	305	6	M6	12
	31					630	60				
	32					690	61				
44	32	80	22	28	32	740	62	283	7	M6	12
	35					940	72				
	36					1020	75				
48	36	80	22	30	34	730	66	260	7	M6	12
	38					930	72				
	40					1110	78				

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

24 x 50 PSV 5003
d x D Type

Applications

- pumps
- wind energy systems
- gearboxes
- conveying equipment
- automation and handling equipment
- similar applications involving shafts and hollow shafts

Technical Details

- tolerance Ø d h8
- surface roughness R_t max 16µm for shaft and hub

Technical Data

page 2

Shrink Disc Dimensions						Transmissible Torque	Axial Force	Contact surface pressure	Number of locking screws	Locking screws	Tightening torque of screws
Ø d mm	Ø d _w mm	Ø D mm	L ₁ mm	L ₂ mm	L ₄ mm	T Nm	F _{ax} kN	N/mm ²	#	G DIN 931	T _A Nm
50	38	90	22	30	34	1270	89	320	9	M6	12
	40					1440	96				
	42					1630	103				
55	42	100	23	31	35	1160	79	250	8	M6	12
	45					1520	88				
	48					1880	97				
62	48	110	23	32	36	2220	125	330	12	M6	12
	50					2620	132				
	52					2890	135				
68	50	115	23	33	37	2000	97	260	10	M6	12
	55					2500	106				
	60					3150	120				
75	55	138	25	33	39	2500	119	270	7	M8	30
	60					3200	137				
	65					3950	155				
80	60	145	25	33	39	3200	124	260	7	M8	30
	65					3900	140				
	70					4600	158				
85	60	155	30	42	48	4300	169	290	10	M8	30
	65					5490	190				
	70					6150	212				
90	65	155	30	40	46	4750	170	270	10	M8	30
	70					6000	190				
	75					7250	212				
95	65	170	34	47	53	5380	195	280	12	M8	30
	70					6770	217				
	75					8200	240				
100	70	170	34	44	50	6900	195	260	12	M8	30
	75					7500	220				
	80					9000	240				
110	75	185	39	50	57	7200	229	240	9	M10	59
	80					9000	252				
	85					10800	262				
115	80	185	42	54	61	9200	280	250	10	M10	59
	90					12600	310				
	95					15000	340				
125	85	215	42	54	61	11000	300	265	12	M10	59
	90					13000	320				
	95					15000	350				
135	90	212	60	77	85	16500	420	250	12	M12	100
	95					19500	460				
	100					22000	490				
140	95	230	46	61	69	15000	360	260	10	M12	100
	100					17500	400				
	105					20000	420				
155	105	263	66	84	92	27000	551	250	15	M12	100
	110					31000	590				
	115					35000	630				
165	115	290	56	71	81	31000	600	280	8	M16	250
	120					35000	630				
	125					39000	660				
175	125	300	92	116	126	70000	1160	300	15	M16	250
	130					79000	1230				
	135					86000	1290				
185	135	330	71	86	96	52000	780	240	10	M16	250
	140					57000	820				
	145					62000	860				
190	135	350	92	117	130	96000	1420	335	12	M20	470
	140					104000	1490				
	150					122000	1630				
195	140	350	71	86	96	65000	930	280	12	M16	250
	150					76000	1030				
	155					82000	1070				

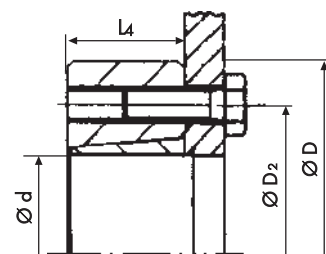
Shrink Disc PSV 5012



Advantages

- for the connection of thin plates with shafts
- eliminates the need for welding parts
- external clamping solution
- good cyclic running capabilities

Shaft sizes up to 70 mm
Torque up to 5.800 Nm



Style A

Different styles available upon request

Technical Data and Dimensions

Shrink Disc Dimensions					Transmissible Torque	Axial Force	Number of locking screws	Locking screws	Tightening torque of screws
Size mm	Ø d mm	Ø D mm	Ø D ₂ mm	L ₄ mm	T Nm	F _{ax} kN	#	G DIN 912	T _A Nm
10	11	39	25	10	20	3,5	3	M6	12
	10				20	4			
	9				20	4,5			
12	13	44	28	13	50	8	3	M6	12
	12				50	8			
	11				50	9			
15	16	52	36	15	130	16	3	M8	29
	15				130	17			
	14				130	19			
20	20	60	42	17	200	20	3	M8	29
	18				200	22			
	16				200	25			
25	25	66	48	19	340	27	5	M8	29
	22				340	31			
	20				340	34			
30	30	76	56	21	550	38	6	M8	29
	28				550	39			
	25				550	44			
40	40	96	70	25	1060	53	6	M10	58
	35				1060	61			
	30				1060	71			
50	50	112	84	30	2200	88	7	M12	100
	45				1800	80			
	40				1000	50			
60	60	120	94	34	3200	107	9	M12	100
	55				3200	116			
	50				2300	92			
70	70	148	112	40	5800	116	8	M16	240
	65				5800	179			
	60				4500	150			

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

60 x 55 PSV 5012-A
Size x d Type

Applications

- brake plates
- drums
- flywheels
- hollow shaft motors
- couplings

Technical Details

- tolerance Ø d h9
- surface roughness R_a max 16µm for shaft and hub

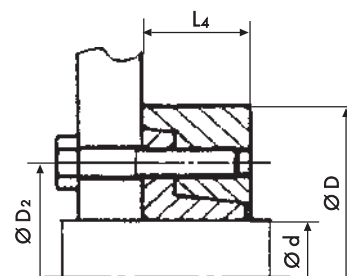
Shrink Disc PSV 5023



Advantages

- transmission of high torque values
- external locking solution
- excellent cyclic running capabilities

Shaft sizes up to 180 mm
Torque up to 104.000 Nm



Style A

Different styles available upon request

Technical Data and Dimensions

Shrink Disc Dimensions					Transmissible Torque	Number of locking screws	Locking screws	Tightening torque of screws
Size mm	Ø d mm	Ø D ₂ mm	Ø D mm	L ₄ mm	T k Nm	#	G DIN 912	TA Nm
50	40	84	115	30	1.400	7	M12	100
	45				2.200			
	50				3.300			
60	50	94	120	34	2.300	9	M12	100
	55				3.500			
	60				4.700			
70	60	112	148	40	5.800	8	M16	240
	65				7.600			
	70				9.400			
80	70	130	170	44	8.000	9	M16	240
	75				10.000			
	80				12.000			
90	80	144	185	50	12.000	12	M16	240
	85				15.000			
	90				18.000			
100	90	156	197	54	16.000	14	M16	240
	95				19.000			
	100				23.000			
110	100	166	215	58	22.000	10	M20	470
	105				26.000			
	110				27.000			
120	110	186	230	65	33.000	14	M20	470
	115				38.000			
	120				43.000			
140	120	216	290	76	39.000	16	M20	470
	130				50.000			
	140				56.000			
160	140	234	320	83	64.000	14	M24	820
	150				77.000			
	160				77.000			
180	160	276	340	94	85.000	16	M24	820
	170				101.000			
	180				104.000			

Additional diameters available upon request. Technical Specifications subject to change without notice.

Order data:

60 x 50 PSV 5023-A
Size x d Type

Applications

- press drives
- wind mills
- gearboxes
- conveyors
- similar applications involving hollow shafts and shafts

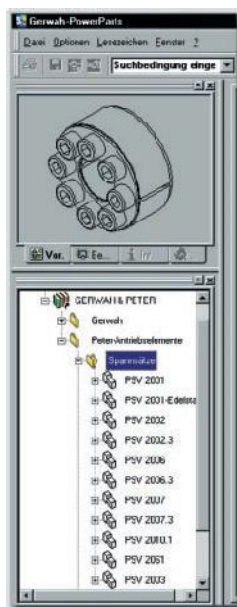
Technical Details

- tolerance Ø d h9
- surface roughness R_a max 16µm for shaft and hub

Abbreviations and Explanations (in alphabetical order)

d (mm)	shaft diameter
d_w (mm)	shaft diameter for shrink discs (min. - max.)
D (mm)	outside diameter Locking Assembly
D_1 (mm)	outside diameter of flange
F_{ax}	transmissible axial force
L_1, L_2, L_3, L_4	length dimensions
T_A (Nm)	tightening torque required for screws
T (Nm)	transmissible torque
p_w (N/mm ²)	contact pressure between Locking Assembly and shaft
p_n (N/mm ²)	contact pressure between Locking Assembly and hub bore
D_N (mm)	outside diameter of hub
D_2 (mm)	bolt circle diameter
G	thread

1. Start Power Parts
2. Select a type
3. Select a diameter
4. Choose between 2D and 3D and download into your drawing

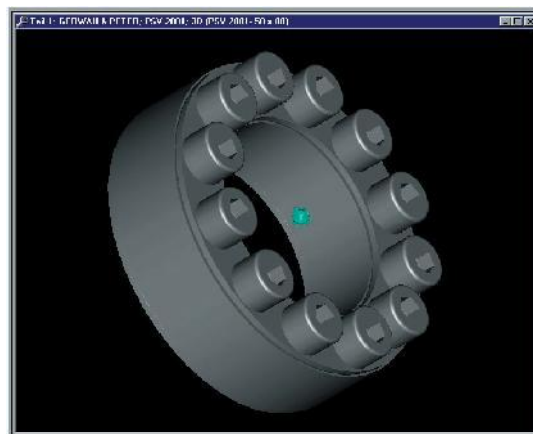


Wählen Sie eine Zeile aus

STABT	L2 [mm]	L1 [mm]	T [Nm]	FAC [kN]	Pw [N/mm ²]
Auswahl	Länge	Länge	Übertragbare Drehmo	Übertragbare Axial-kr	Flächenpressung zwis Flac
22 x 42	17	27.5	355	33	236
24 x 50	17	27.5	445	37	243
25 x 50	17	27.5	463	37	233
26 x 55	17	27.5	515	36	209
26 x 55	17	27.5	549	36	195
26 x 55	17	27.5	770	40	243
26 x 60	17	27.5	646	48	222
26 x 65	17	27.5	1140	60	256
40 x 65	17	27.5	1200	60	243
42 x 75	20	33.5	1840	87	283
42 x 75	20	33.5	1960	87	264
48 x 80	20	33.5	2090	86	247
50 x 80	20	33.5	2170	86	237
50 x 80	20	33.5	2760	100	262
60 x 90	20	33.5	3060	100	291
65 x 95	20	33.5	2700	113	244
70 x 110	24	38.5	5510	157	270

Auswahl: 50 x 80

OK Abbrechen Hilfe



3-D page

Warranty: Since our engineers cannot be aware of all applications and control all the factors that may affect the function of our products, our warranty applies to **PETER** products only.

Important: In accordance with our policy and in the interest of product improvement, the specifications here-in are subject to change without notice.

Please use our design software for the calculation of the necessary hub outside diameter

Example:

A Locking Assembly is needed for a 50 mm shaft:

1.

self-centering
Non self-centering

Locking assembly:
Search method:

2.

back

Locking assembly: Non self-centering
Search method:

PSV 2001
PSV 2001 stainless steel

3.

back

Locking assembly: Non self-centering PSV 2001
Search method:

4.

Select please the method, as you want to look for the locking assembly.
geometry
power

back

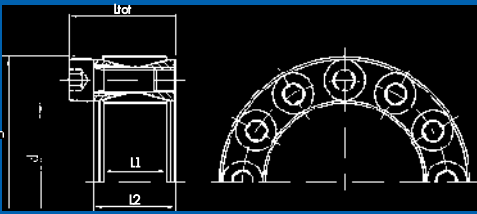
Locking assembly: Non self-centering PSV 2001
Search method: Geometry

diameter shaft: 50 mm search
0 mm search

5.

Locking assemblies:
PSV 2001-50 x 80

15.1.2002 11:20:46
back



Technical data:

performance data:	screws:	shaft diameter:	Length:
T _{max} = 2170 Nm	12 pieces	d = 50 mm	L = 24 mm
F _{ax} = 149 kN	DIN 912 M8 x 22	D = 80 mm	L ₁ = 20 mm
	TA = 43 Nm	D1 = mm	L ₂ = 33.5 mm
			L ₃ = mm
			L ₄ = mm
			L _{tot} = 46 mm

Pressure:
pW = 237 N/mm²
pN = 149 N/mm²

Weight:
m = 0.6 Kg

Hub material > select yield point tensile strength hub shape factor > Info
St 52 345 510 1
min. hub diameter D N min = 127.0 mm safety = 1
given hub diameter D N geg = mm new safety =

shaft material > select yield point tensile strength
C 45 335 590

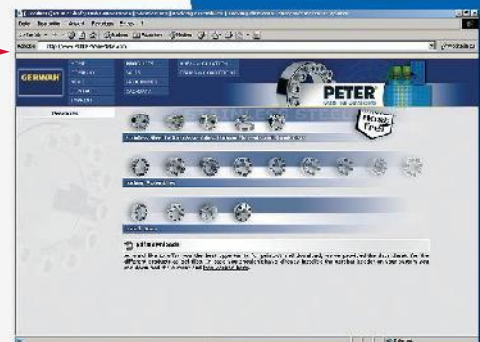
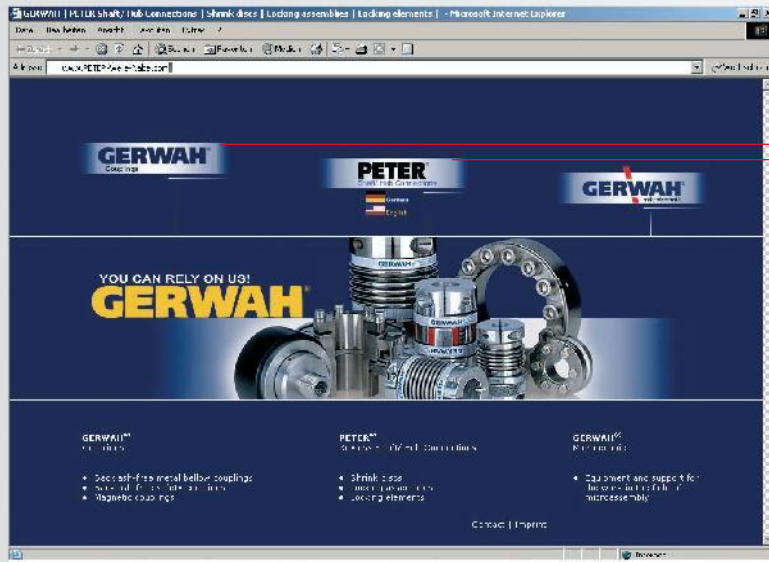
safety against plastic deformation with this material = 1,41

print

1. Choose between self centering and non-self centering style
2. Select PSV 2001 standard or PSV 2001 special (stainless steel)
3. Choose geometry or power
4. Type in the shaft diameter (50 mm)
5. Technical data are displayed, based on the hub material specifications

PETER®

Drive Components



You can find the following information on our website at www.gerwah.com

- complete catalogue information
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