

RETAINING RINGS FOR SHAFTS - NORMAL TYPE - STEEL ②

ZEKERINGSRINGEN VOOR ASSEN - NORMALE UITVOERING - STAAL

CIRCLIPS POUR ARBRES - TYPE NORMAL - ACIER

ANILLOS DE SEGURIDAD PARA EJE - TIPO REGULAR - ACERO

SICHERUNGSRINGE (HALTERINGE) FÜR WELLEN - REGELAUSFÜHRUNG - STAHL

	ISO :-	GROUPCODE STEEL ☒ ☒ 36000 STEEL ☒ ☒ 36005	 Ordering example: 36000 4	St^③
	DIN : 471			
	NEN :-			
	ANSI :-			
	BS :-			
	NF : E22-163			

Nom. size shaft d1	3	4	5	6	7	8	9	10
s	0,4	0,4	0,6	0,7	0,8	0,8	1	1
ring d3	2,7	3,7	4,7	5,6	6,5	7,4	8,4	9,3
d4	7	8,6	10,3	11,7	13,5	14,7	16	17
groove d2	2,8	3,8	4,8	5,7	6,7	7,6	8,6	9,6
m (H13)	0,5	0,5	0,7	0,8	0,9	0,9	1,1	1,1
n (min.)	0,3	0,3	0,3	0,5	0,5	0,6	0,6	0,6

Nom. size shaft d1	11	12	13	14	15	16	17	18	➔
s	1	1	1	1	1	1	1	1,2	
ring d3	10,2	11	11,9	12,9	13,8	14,7	15,7	16,5	
d4	18	19	20,2	21,4	22,6	23,8	25	26,2	
groove d2	10,5	11,5	12,4	13,4	14,3	15,2	16,2	17	
m (H13)	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,3	
n (min.)	0,8	0,8	0,9	0,9	1,1	1,2	1,2	1,5	

SMALL PACKING		DIMENSION CODE					
Nom. size shaft d1	STEEL 36000 L07 ☒	Nom. size shaft d1	STEEL 36000 L07 ☒	Nom. size shaft d1	STEEL 36000 L07 ☒	Nom. size shaft d1	STEEL 36000 L07 ☒
4MM	004.001 500	9MM	009.001 250	14MM	014.001 100		
5MM	005.001 500	10MM	010.001 250	15MM	015.001 100		
6MM	006.001 500	11MM	011.001 250	16MM	016.001 100		
7MM	007.001 500	12MM	012.001 250	17MM	017.001 100		
8MM	008.001 250	13MM	013.001 100	18MM	018.001 100		

LARGE PACKING		DIMENSION CODE					
Nom. size shaft d1	STEEL 36005 L07 ☒☒	Nom. size shaft d1	STEEL 36005 L07 ☒☒	Nom. size shaft d1	STEEL 36005 L07 ☒☒	Nom. size shaft d1	STEEL 36005 L07 ☒☒
3MM	003.001 1000	9MM	009.001 1000	14MM	014.001 500		
4MM	004.001 1000	10MM	010.001 1000	15MM	015.001 500		
5MM	005.001 1000	11MM	011.001 500	16MM	016.001 500		
6MM	006.001 1000	12MM	012.001 500	17MM	017.001 500		
7MM	007.001 1000	13MM	013.001 500	18MM	018.001 500		
8MM	008.001 1000						

TECHNICAL DATA											
		<table border="1"> <thead> <tr> <th colspan="3">DETAIL X</th> </tr> <tr> <th>d1 ≤ 9 mm.</th> <th>d1 > 9 ≤ 300 mm. ①</th> <th>d1 ≥ 170 mm. ①</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	DETAIL X			d1 ≤ 9 mm.	d1 > 9 ≤ 300 mm. ①	d1 ≥ 170 mm. ①			
DETAIL X											
d1 ≤ 9 mm.	d1 > 9 ≤ 300 mm. ①	d1 ≥ 170 mm. ①									

- ① At the option of the manufacturer.
- ② Depending on availability the phosphated type can be supplied. The heavy type is only available on request.
- ③ Spring steel, acc. to DIN 17222.

WARNING: electro-galvanizing of these products may cause hydrogen embrittlement.



RETAINING RINGS FOR SHAFTS - NORMAL TYPE - STEEL ②

ZEKERINGSRINGEN VOOR ASSEN - NORMALE UITVOERING - STAAL

CIRCLIPS POUR ARBRES - TYPE NORMAL - ACIER

ANILLOS DE SEGURIDAD PARA EJE - TIPO REGULAR - ACERO

SICHERUNGSRINGE (HALTERINGE) FÜR WELLEN - REGELAUFSÜHRUNG - STAHL

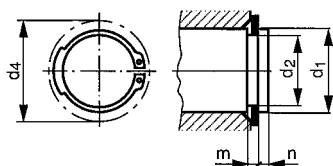
	ISO :-	GROUPCODE STEEL ☒ ☒ 36000 STEEL ☒ ☒ 36005	 Ordering example: 36000 4	St^③
	DIN : 471			
	NEN :-			
	ANSI :-			
	BS :-			
	NF : E22-163			

Nom. size shaft d1	←	19	20	21	22	23④	24	25	26	27④	28	29
s		1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,5	1,5
ring d3		17,5	18,5	19,5	20,5	21,5	22,2	23,2	24,2	24,9	25,9	26,9
d4		27,2	28,4	29,6	30,8	31	33,2	34,2	35,5	35,4	37,9	39,1
groove d2		18	19	20	21	22	22,9	23,9	24,6	25,9	26,6	27,6
m (H13)		1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,6	1,6
n (min.)		1,5	1,5	1,5	1,5	1,5	1,7	1,7	1,7	2,1	2,1	2,1

Nom. size shaft d1		30	31④	32	33④	34	35	36	37④	38	39④	→
s		1,5	1,5	1,5	1,5	1,5	1,5	1,75	1,75	1,75	1,75	
ring d3		27,9	28,6	29,6	30,5	31,5	32,2	33,2	34,2	35,2	36	
d4		40,5	40,3	43	43,4	45,4	46,8	47,8	48	50,2	50,2	
groove d2		28,6	29,3	30,3	31,3	32,3	33	34	35	36	37	
m (H13)		1,6	1,6	1,6	1,6	1,6	1,6	1,85	1,85	1,85	1,85	
n (min.)		2,1	2,6	2,6	2,6	2,6	3	3	3	3	3	

SMALL PACKING			DIMENSION CODE					
Nom. size shaft d1	STEEL 36000 L07	☒	Nom. size shaft d1	STEEL 36000 L07	☒	Nom. size shaft d1	STEEL 36000 L07	☒
19MM	019.001	100	26MM	026.001	100	33MM	033.001	100
20MM	020.001	100	27MM	027.001	100	34MM	034.001	100
21MM	021.001	100	28MM	028.001	100	35MM	035.001	100
22MM	022.001	100	29MM	029.001	100	36MM	036.001	100
23MM	023.001	100	30MM	030.001	100	37MM	037.001	100
24MM	024.001	100	31MM	031.001	100	38MM	038.001	100
25MM	025.001	100	32MM	032.001	100	39MM	039.001	100

LARGE PACKING			DIMENSION CODE					
Nom. size shaft d1	STEEL 36005 L07	☒ ☒	Nom. size shaft d1	STEEL 36005 L07	☒ ☒	Nom. size shaft d1	STEEL 36005 L07	☒ ☒
19MM	019.001	500	24MM	024.001	500	30MM	030.001	200
20MM	020.001	500	25MM	025.001	500	32MM	032.001	200
21MM	021.001	500	26MM	026.001	200	34MM	034.001	200
22MM	022.001	500	28MM	028.001	200	35MM	035.001	200

TECHNICAL DATA


DETAIL X		
d ₁ ≤ 9 mm.	d ₁ > 9 ≤ 300mm. ①	d ₁ ≥ 170mm. ①

- ① At the option of the manufacturer.
- ② Depending on availability the phosphated type can be supplied. The heavy type is only available on request.
- ③ Spring steel, acc. to DIN 17222.
- ④ This size is **not** DIN standardised.

WARNING: electro-galvanizing of these products may cause hydrogen embrittlement.

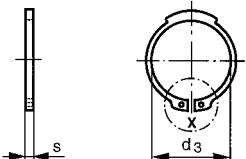


RETAINING RINGS FOR SHAFTS - NORMAL TYPE - STEEL ②

ZEKERINGSRINGEN VOOR ASSEN - NORMALE UITVOERING - STAAL

CIRCLIPS POUR ARBRES - TYPE NORMAL - ACIER

ANILLOS DE SEGURIDAD PARA EJE - TIPO REGULAR - ACERO

SICHERUNGSRINGE (HALTERINGE) FÜR WELLEN - REGELAUFSÜHRUNG - STAHL

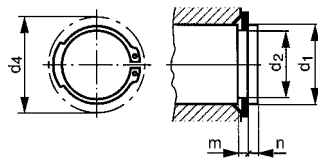



	ISO :-	GROUPCODE STEEL ☒ ☒ 36000 STEEL ☒ ☒ 36005	 Ordering example: 36000 4	St ^③
	DIN : 471			
	NEN :-			
	ANSI :-			
	BS :-			
	NF : E22-163			

Nom. size shaft d1	←	40	42	44④	45	47④	48	50	52	54④	55	56	57④
s		1,75	1,75	1,75	1,75	1,75	1,75	2	2	2	2	2	2
ring d3		36,5	38,5	40,5	41,5	43,5	44,5	45,8	47,8	49,8	50,8	51,8	52,8
d4		52,6	55,7	56	59,1	61,3	62,5	64,5	66,7	67	70,2	71,6	70
groove d2		37,5	39,5	41,5	42,5	44,5	45,5	47	49	51	52	53	54
m (H13)		1,85	1,85	1,85	1,85	1,85	1,85	2,15	2,15	2,15	2,15	2,15	2,15
n (min.)		3,8	3,8	3,8	3,8	3,8	3,8	4,5	4,5	4,5	4,5	4,5	4,5

Nom. size shaft d1		58	60	62	63	65	67④	68	70	72	75	77④	78	→
s		2	2	2	2	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	
ring d3		53,8	55,8	57,8	58,8	60,8	62,5	63,5	65,5	67,5	70,5	72,5	73,5	
d4		73,6	75,6	77,8	79	81,4	82	84,8	87	89,2	92,7	94	96,1	
groove d2		55	57	59	60	62	64	65	67	69	72	74	75	
m (H13)		2,15	2,15	2,15	2,15	2,65	2,65	2,65	2,65	2,65	2,65	2,65	2,65	
n (min.)		4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	

SMALL PACKING			DIMENSION CODE			SMALL PACKING			DIMENSION CODE			SMALL PACKING		
Nom. size shaft d1	STEEL 36000 L07	☒	Nom. size shaft d1	STEEL 36000 L07	☒	Nom. size shaft d1	STEEL 36000 L07	☒	Nom. size shaft d1	STEEL 36000 L07	☒	Nom. size shaft d1	STEEL 36000 L07	☒
40MM	040.001	50	54MM	054.001	25	65MM	065.001	10	65MM	065.001	10	65MM	065.001	10
42MM	042.001	50	55MM	055.001	25	67MM	067.001	10	67MM	067.001	10	67MM	067.001	10
44MM	044.001	50	56MM	056.001	25	68MM	068.001	10	68MM	068.001	10	68MM	068.001	10
45MM	045.001	50	57MM	057.001	25	70MM	070.001	10	70MM	070.001	10	70MM	070.001	10
47MM	047.001	50	58MM	058.001	25	72MM	072.001	10	72MM	072.001	10	72MM	072.001	10
48MM	048.001	50	60MM	060.001	25	75MM	075.001	10	75MM	075.001	10	75MM	075.001	10
50MM	050.001	50	62MM	062.001	25	77MM	077.001	10	77MM	077.001	10	77MM	077.001	10
52MM	052.001	50	63MM	063.001	25	78MM	078.001	10	78MM	078.001	10	78MM	078.001	10

LARGE PACKING			DIMENSION CODE			LARGE PACKING			DIMENSION CODE			LARGE PACKING		
Nom. size shaft d1	STEEL 36005 L07	☒ ☒	Nom. size shaft d1	STEEL 36005 L07	☒ ☒	Nom. size shaft d1	STEEL 36005 L07	☒ ☒	Nom. size shaft d1	STEEL 36005 L07	☒ ☒	Nom. size shaft d1	STEEL 36005 L07	☒ ☒
40MM	040.001	200	45MM	045.001	100	50MM	050.001	100	50MM	050.001	100	50MM	050.001	100

TECHNICAL DATA			
	DETAIL X		
	$d_1 \leq 9 \text{ mm.}$ 	$d_1 > 9 \leq 300 \text{ mm.}^{①}$ 	$d_1 \geq 170 \text{ mm.}^{①}$ 

- ① At the option of the manufacturer.
 - ② Depending on availability the phosphated type can be supplied. The heavy type is only available on request.
 - ③ Spring steel, acc. to DIN 17222.
 - ④ This size is **not** DIN standardised.
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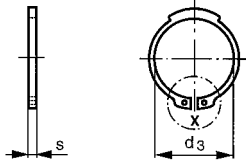
RETAINING RINGS FOR SHAFTS - NORMAL TYPE - STEEL ②

ZEKERINGSRINGEN VOOR ASSEN - NORMALE UITVOERING - STAAL

CIRCLIPS POUR ARBRES - TYPE NORMAL - ACIER

ANILLOS DE SEGURIDAD PARA EJE - TIPO REGULAR - ACERO

SICHERUNGSRINGE (HALTERINGE) FÜR WELLEN - REGELAUSFÜHRUNG - STAHL


 ISO :-
 DIN : 471
 NEN :-
 ANSI :-
 BS :-
 NF : E22-163

GROUPCODE
 STEEL ☒ **36000**
 STEEL ☒ ☒ **36005**

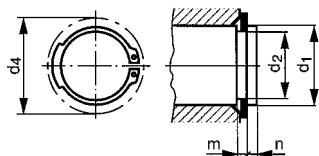
 Ordering example:
36000 4
St^③

Nom. size shaft d1	80	82	85	87 ^③	88	90	92 ^④	95	97 ^④	98 ^④
s	2,5	2,5	3	3	3	3	3	3	3	3
ring d3	74,5	76,5	79,5	81,5	82,5	84,5	86,5	89,5	91,5	92,5
d4	98,1	100,3	103,3	104	106,5	108,5	111	114,8	116	117
groove d2	76,5	78,5	81,5	83,5	84,5	86,5	88,5	91,5	93,5	94,5
m (H13)	2,65	2,65	3,15	3,15	3,15	3,15	3,15	3,15	3,15	3,15
n (min.)	5,3	5,3	5,3	5,3	5,3	5,3	5,3	5,3	5,3	5,3

Nom. size shaft d1	100	105	110	115	120	125	130	135	140	145
s	3	4	4	4	4	4	4	4	4	4
ring d3	94,5	98	103	108	113	118	123	128	133	138
d4	120,2	125,8	131,2	137,3	143,1	149	154,4	159,8	165,2	170,6
groove d2	96,5	101	106	111	116	121	126	131	136	141
m (H13)	3,15	4,15	4,15	4,15	4,15	4,15	4,15	4,15	4,15	4,15
n (min.)	5,3	6	6	6	6	6	6	6	6	6

SMALL PACKING
DIMENSION CODE

Nom. size shaft d1	STEEL 36000 L07	☒	Nom. size shaft d1	STEEL 36000 L07	☒	Nom. size shaft d1	STEEL 36000 L07	☒
80MM	080.001	10	95MM	095.001	5	120MM	120.001	5
82MM	082.001	10	97MM	097.001	5	125MM	125.001	5
85MM	085.001	5	98MM	098.001	5	130MM	130.001	5
87MM	087.001	5	100MM	100.001	5	135MM	135.001	5
88MM	088.001	5	105MM	105.001	5	140MM	140.001	5
90MM	090.001	5	110MM	110.001	5	145MM	145.001	5
92MM	092.001	5	115MM	115.001	5			

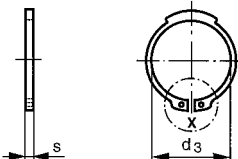

TECHNICAL DATA

DETAIL X

d1 ≤ 9 mm.	d1 > 9 ≤ 300mm. ①	d1 ≥ 170mm. ①

- ① At the option of the manufacturer.
 ② Depending on availability the phosphated type can be supplied. The heavy type is only available on request.
 ③ Spring steel, acc. to DIN 17222.
 ④ This size is **not** DIN standardised.

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 ZEKERINGSRINGEN VOOR ASSEN - NORMALE UITVOERING - STAAL
 CIRCLIPS POUR ARBRES - TYPE NORMAL - ACIER
 ANILLOS DE SEGURIDAD PARA EJE - TIPO REGULAR - ACERO
 SICHERUNGSRINGE (HALTERINGE) FÜR WELLEN - REGELAUFSÜHRUNG - STAHL

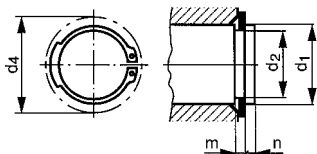
	ISO :-	GROUPCODE STEEL ☒ 36000 STEEL ☒ ☒ 36005	 Ordering example: 36000 4	St^③
	DIN : 471 NEN :- ANSI :- BS :- NF : E22-163			




Nom. size shaft d1	150	155	160	165	170	175	180	185	190	195	200
ring s	4	4	4	4	4	4	4	4	4	4	4
d3	142	146	151	155,5	160,5	165,5	170,5	175,5	180,5	185,5	190,5
d4	177,3	182,3	188	193,4	198,4	203,4	210	215	220	225	230
groove d2	145	150	155	160	165	170	175	180	185	190	195
m (H13)	4,15	4,15	4,15	4,15	4,15	4,15	4,15	4,15	4,15	4,15	4,15
n (min.)	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5

Nom. size shaft d1	210	220	230	240	250	260	270	280	290	300
ring s	5	5	5	5	5	5	5	5	5	5
d3	198	208	218	228	238	245	255	265	275	285
d4	240	250	260	270	280	294	304	314	324	334
groove d2	204	214	224	234	244	252	262	272	282	292
m (H13)	5,15	5,15	5,15	5,15	5,15	5,15	5,15	5,15	5,15	5,15
n (min.)	9	9	9	9	9	12	12	12	12	12

SMALL PACKING		DIMENSION CODE						
Nom. size shaft d1	STEEL 36000 L07	☒	Nom. size shaft d1	STEEL 36000 L07	☒	Nom. size shaft d1	STEEL 36000 L07	☒
150MM	150.001	3	185MM	185.001	2	240MM	240.001	2
155MM	155.001	3	190MM	190.001	2	250MM	250.001	2
160MM	160.001	3	195MM	195.001	2	260MM	260.001	2
165MM	165.001	3	200MM	200.001	2	270MM	270.001	2
170MM	170.001	3	210MM	210.001	2	280MM	280.001	2
175MM	175.001	2	220MM	220.001	2	290MM	290.001	2
180MM	180.001	2	230MM	230.001	2	300MM	300.001	2

TECHNICAL DATA



DETAIL X		
d ₁ ≤ 9 mm.	d ₁ > 9 ≤ 300mm. ①	d ₁ ≥ 170mm. ①
		

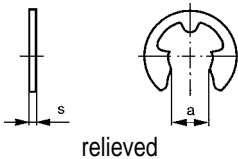

- ① At the option of the manufacturer.
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- ③ Spring steel, acc. to DIN 17222.

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RETAINING WASHERS FOR SHAFTS - STEEL ①

ASBORGRINGEN - STAAL
ANNEAUX DE SURETE POUR ARBRES - ACIER
ANILLOS DE SEGURIDAD PARA EJE - ACERO
SICHERUNGSSCHEIBEN (HALTESCHEIBEN) FÜR WELLEN - STAHL

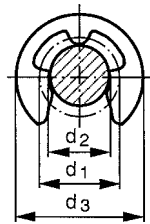
	ISO :-	GROUPCODE STEEL ☒ ☒ 36200 STEEL ☒ ☒ 36205	 Ordering example: 36200 1,2	St ^②
	DIN : 6799			
	NEN :-			
	ANSI :-			
	BS :-			
	NF :-			

Nom. size groove d2 (h11)		1,2	1,5	1,9	2,3	3,2	4	5	6	➔
Range shaft diameter d1	from	1,4	2	2,5	3	4	5	6	7	
	till	2	2,5	3	4	5	7	8	9	
ring	s	0,3	0,4	0,5	0,6	0,6	0,7	0,7	0,7	
	a	1,01	1,28	1,61	1,94	2,7	3,34	4,11	5,26	
	d3 (max.)	3,25	4,25	4,8	6,3	7,3	9,3	11,3	12,3	
groove	m	0,34	0,44	0,54	0,64	0,64	0,74	0,74	0,74	
	n (min.)	0,6	0,8	1	1	1	1,2	1,2	1,2	

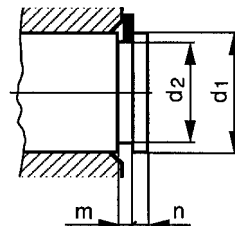
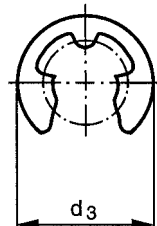
SMALL PACKING			DIMENSION CODE			SMALL PACKING			DIMENSION CODE		
Nom. size groove d2	STEEL 36200 L07	☒	Nom. size groove d2	STEEL 36200 L07	☒	Nom. size groove d2	STEEL 36200 L07	☒	Nom. size groove d2	STEEL 36200 L07	☒
1,2MM	012.001	500	2,3MM	023.001	500	5MM	050.001	500			
1,5MM	015.001	500	3,2MM	032.001	500	6MM	060.001	500			
1,9MM	019.001	500	4MM	040.001	500						

LARGE PACKING			DIMENSION CODE			LARGE PACKING			DIMENSION CODE		
Nom. size groove d2	STEEL 36205 L07	☒ ☒	Nom. size groove d2	STEEL 36205 L07	☒ ☒	Nom. size groove d2	STEEL 36205 L07	☒ ☒	Nom. size groove d2	STEEL 36205 L07	☒ ☒
1,5MM	015.001	1000	3,2MM	032.001	1000	5MM	050.001	1000			
1,9MM	019.001	1000	4MM	040.001	1000	6MM	060.001	1000			
2,3MM	023.001	1000									

TECHNICAL DATA



tensioned

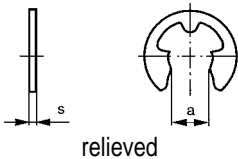



- ① Depending on availability the phosphated type can be supplied.
 - ② Spring steel, hardness 460-580 HV.
For tolerance fields, see section 15.
- WARNING:** electro-galvanizing of these products may cause hydrogen embrittlement.



RETAINING WASHERS FOR SHAFTS - STEEL ①

ASBORGRINGEN - STAAL
ANNEAUX DE SURETE POUR ARBRES - ACIER
ANILLOS DE SEGURIDAD PARA EJE - ACERO
SICHERUNGSSCHEIBEN (HALTESCHEIBEN) FÜR WELLEN - STAHL

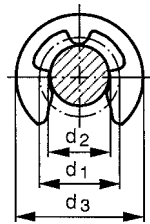
	ISO :-	GROUPCODE STEEL ☒ 36200 STEEL ☒ ☒ 36205	 Ordering example: 36200 1,2	St^②
	DIN : 6799			
	NEN :-			
	ANSI :-			
	BS :-			
	NF :-			

Nom. size groove d2 (h11) ←	7	8	9	10	12	15	19	24
Range shaft diameter d1	from 8	9	10	11	13	16	20	25
	till 11	12	14	15	18	24	31	38
ring	s	0,9	1	1,1	1,2	1,3	1,75	2
	a	5,84	6,52	7,63	8,32	10,45	12,61	15,92
groove	d3 (max.)	14,3	16,3	18,8	20,4	23,4	29,4	37,6
	m	0,94	1,05	1,15	1,25	1,35	1,55	1,8
	n (min.)	1,5	1,8	2	2	2,5	3	3,5

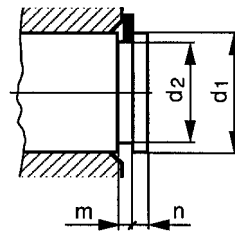
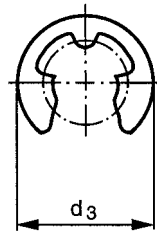
SMALL PACKING			DIMENSION CODE			SMALL PACKING			DIMENSION CODE		
Nom. size groove d2	STEEL 36200 ☒	L07	Nom. size groove d2	STEEL 36200 ☒	L07	Nom. size groove d2	STEEL 36200 ☒	L07	Nom. size groove d2	STEEL 36200 ☒	L07
7MM	070.001	250	10MM	100.001	250	19MM	190.001	100	8MM	080.001	250
8MM	080.001	250	12MM	120.001	100	24MM	240.001	100	9MM	090.001	250
9MM	090.001	250	15MM	150.001	100						

LARGE PACKING			DIMENSION CODE			LARGE PACKING			DIMENSION CODE		
Nom. size groove d2	STEEL 36205 ☒ ☒	L07	Nom. size groove d2	STEEL 36205 ☒ ☒	L07	Nom. size groove d2	STEEL 36205 ☒ ☒	L07	Nom. size groove d2	STEEL 36205 ☒ ☒	L07
7MM	070.001	1000	10MM	100.001	500	15MM	150.001	500	8MM	080.001	1000
8MM	080.001	1000	12MM	120.001	500	19MM	190.001	500	9MM	090.001	1000
9MM	090.001	1000									

TECHNICAL DATA



tensioned



① Depending on availability the phosphated type can be supplied.
 ② Spring steel, hardness 460-580 HV.
 For tolerance fields, see section 15.
WARNING: electro-galvanizing of these products may cause hydrogen embrittlement.

