

KNA 28/KN 25

Description

Product group	Piston seal
Design	NA asymmetrical u-ring with outer main sealing lip (28), N symmetrical u-ring (25)
Profile no.	28/25
Specification	E suitable for one-sided pressure load
Seal material	TPU 95 3401

Operational application limits

Pressure (MPa):	≤40 (KNA 28), ≤30 (KN 25)
Temperature (°C):	-40 to +100
Running speed (m/s):	≤0.5

Media

Hydraulic oils acc. to DIN 51524 Part 1 – 3, lubricating oils, mineral oil based lubricating greases, highly non-flammable hydraulic fluids HFA, HFB, HFC acc. to VDMA 24317

Function

The KNA 28 u-ring is a single-acting piston seal with an asymmetrical design. Due to the synergy of geometry and material, it is particularly well-suited for extreme loads. The KN 25 u-ring has a symmetrical design which allows it to be used both as a piston seal or a rod seal. Of the two designs the use of the KNA 28 is preferred for piston applications.

Installation

Both designs can be installed in cut grooves starting from an inner diameter of 25 mm. with the use of suitable installation tools. With smaller diameters or larger profile widths, we recommend axially accessible installation housings.

Remarks

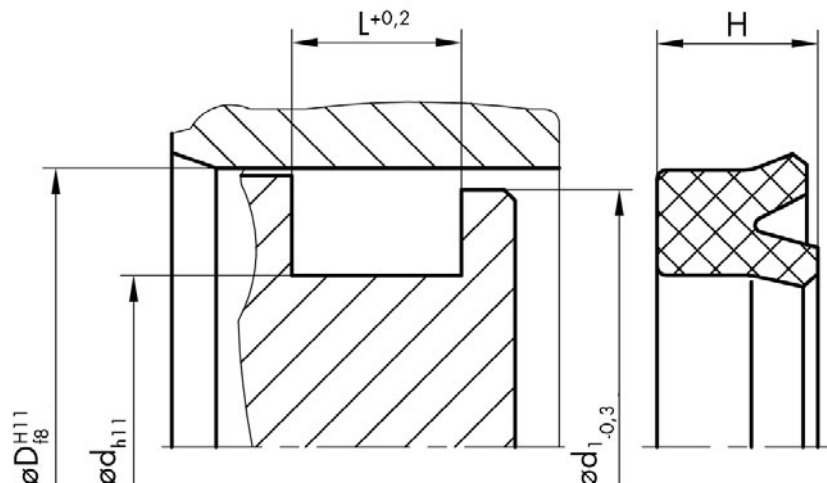
Seals made of TPU are very robust and are particularly well-suited for applications in mobile hydraulics, particularly earth moving equipment.

Order code

Please include our item numbers in your order. Should you require non-standard dimensions, materials or material combinations, please use the order code on page 12.

Any seal. Any time.

All the items in our standard programme (marked red) are standard stock items. For all other items, please check the availability at www.dichtomatik.de.

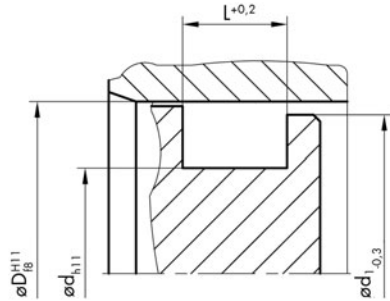


KNA 28/KN 25
Sizes

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168734	KN 25 E	14	7	5	4
156844	KNA 28 E	14	8	6.3	5.7
168595	KNA 28 E	14	8	6.8	5.8
168736	KN 25 E	14	10	3.5	3
168737	KN 25 E	15	8	8	7
168738	KN 25 E	15	9	9	8
168740	KN 25 E	15	10	4.5	4
15762	KNA 28 E	16	6	9	8
168741	KN 25 E	16	10	5	4
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168743	KN 25 E	16	10	6	5
71125	KNA 28 E	16	10	6.5	6
168744	KN 25 E	16	10	6.5	6
15804	KNA 28 E	16	10	9	8
168746	KN 25 E	17	11	5	4
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168748	KN 25 E	18	10	6	5.5
168749	KN 25 E	18	10	6	5
168750	KN 25 E	18	10	7	6
168752	KN 25 E	18	10	9	8
168753	KN 25 E	18	12	5	4
168756	KN 25 E	18	12	5.5	5
168760	KN 25 E	18	12	7	6
168763	KN 25 E	19	9	7	6
168771	KN 25 E	19.05	12.7	5.56	3.96
82801	KNA 28 E	20	8	8.5	7.5
168772	KN 25 E	20	10	6	5
168773	KN 25 E	20	10	7	6
65814	KNA 28 E	20	10	8.5	7.5
15763	KNA 28 E	20	10	9	8
168774	KN 25 E	20	10	9	8
73750	KNA 28 E	20	12	6	5.5
168775	KN 25 E	20	12	6	5
168777	KN 25 E	20	12	6.5	5.5
22420	KNA 28 E	20	12	7.5	7
168778	KN 25 E	20	12	8	7
168779	KN 25 E	20	12	9	8
168781	KN 25 E	20	13.5	5	4
168782	KN 25 E	20	14	5	4
168783	KN 25 E	20	14	5.3	4.8
168784	KN 25 E	20	14	6	5
168599	KNA 28 E	20	14	6	5.5
15805	KNA 28 E	20	14	6.5	5.5
168786	KN 25 E	20	14	7	6
168788	KN 25 E	20.5	11	7	6
168790	KN 25 E	20.5	11	7	6.5
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KNA 28/KN 25

Sizes



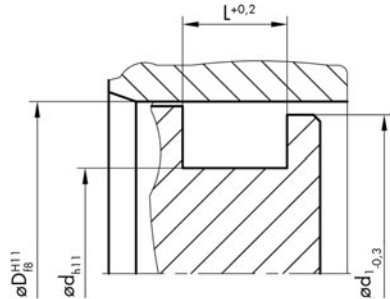
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65819	KNA 28 E	25	15	8	7.3
15765	KNA 28 E	25	15	9	8
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168835	KN 25 E	25	16	9	8
168837	KN 25 E	25	17	5	4
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15766	KNA 28 E	25	17	11	10
168840	KN 25 E	25	18	5.5	5
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168843	KN 25 E	25	19	7	6
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72767	KNA 28 E	25.4	19.05	7.14	6.35
168846	KN 25 E	26	14	9	8
168847	KN 25 E	26	16	6	5
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168850	KN 25 E	26	16	9	8
168851	KN 25 E	26	16	11	10
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168854	KN 25 E	26	18	6	5
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168856	KN 25 E	26	18	9	8

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168864	KN 25 E	27	19	6	5
168866	KN 25 E	27	20	7	6
168869	KN 25 E	28	14	11	10
168872	KN 25 E	28	15	9	8
168873	KN 25 E	28	15	11	10
168875	KN 25 E	28	16	7	6
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168878	KN 25 E	28	18	9	8
168879	KN 25 E	28	20	5	4
168881	KN 25 E	28	20	6	5
168882	KN 25 E	28	20	7	6
168883	KN 25 E	28	20	9	8
168884	KN 25 E	28	22	5	4
168885	KN 25 E	28	22	9	8
159022	KNA 28 E	28.57	19.05	8.72	7.93
168887	KN 25 E	29	20	5.5	5
168889	KN 25 E	30	15	7	6
168890	KN 25 E	30	15	9	8
168892	KN 25 E	30	15	11	10
15795	KNA 28 E	30	15	11	10
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168896	KN 25 E	30	20	7	6
15796	KNA 28 E	30	20	9	8
168897	KN 25 E	30	20	9	8
168898	KN 25 E	30	20	11	10
168899	KN 25 E	30	22	5	4
168901	KN 25 E	30	22	6	5
22670	KNA 28 E	30	22	7	6.5
168902	KN 25 E	30	22	7	6
168903	KN 25 E	30	22	7.5	7
168904	KN 25 E	30	22	11	10
168906	KN 25 E	31.75	25.4	6.35	4.76
168907	KN 25 E	32	10	11	10
168905	KN 25 E	32	16	9	8
168909	KN 25 E	32	17	11	10
168911	KN 25 E	32	18	8	7
168913	KN 25 E	32	20	6	5
168914	KN 25 E	32	20	7	6
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168916	KN 25 E	32	20	9	8
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117410	KN 25 E	32	22	8	7
168602	KNA 28 E	32	22	9	8
168920	KN 25 E	32	22	9	8
15767	KNA 28 E	32	22	11	10
168921	KN 25 E	32	22	11	10
168923	KN 25 E	32	24	5	4
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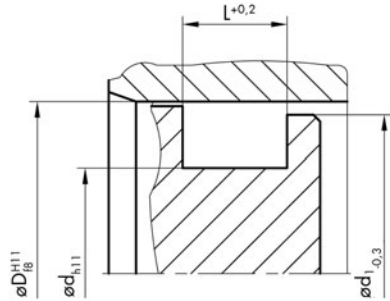
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71127	KNA 28 E	34	22	9.4	8.4
168607	KNA 28 E	34	22	10	9
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168950	KN 25 E	35	25	5.5	5
168951	KN 25 E	35	25	7	6
168952	KN 25 E	35	25	8	7
124356	KNA 28 E	35	25	8.3	7.3
168609	KNA 28 E	35	25	9	8
168953	KN 25 E	35	25	9	8
168954	KN 25 E	35	25	11	10
175217	KN 25 E	35	27	4.5	4
168610	KNA 28 E	35	27	11	10
168957	KN 25 E	35	28	5.5	5
72682	KN 25 E	35.5	22	11	10
168960	KN 25 E	35.5	28	6	5
168962	KN 25 E	36	20	9	8
150010	KN 25 E	36	20	11	10
168965	KN 25 E	36	27	7	6
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168967	KN 25 E	36	28	6	5
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168970	KN 25 E	36	28	7.5	6.5
168611	KNA 28 E	36.5	24	7	6.5
15809	KNA 28 E	37	21	13	12
168971	KN 25 E	37	21	13	12
168973	KN 25 E	37	25	8	7
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168975	KN 25 E	37	30	7	6
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168982	KN 25 E	38	28	11	10
168984	KN 25 E	38	30	5	4
168985	KN 25 E	38	30	6	5
168986	KN 25 E	38	30	6.5	6
44982	KNA 28 E	38	30	7.5	6.5
168987	KN 25 E	38	30	8	7
168612	KNA 28 E	38	31	5.2	4.7
168988	KN 25 E	38.1	25.4	7.14	6.35
159023	KNA 28 E	38.1	28.57	7.14	6.35
171033	KN 25 E	38.1	28.57	8.72	7.93
159024	KNA 28 E	38.1	31.75	7.14	6.35
168993	KN 25 E	39	20	11	10.5
73204	KN 25 E	39	28	8.3	7.25
168994	KN 25 E	40	20	11	10
168997	KN 25 E	40	20	13	12
168998	KN 25 E	40	22	11	10
168999	KN 25 E	40	24	9	8
65861	KNA 28 E	40	25	10	9
15768	KNA 28 E	40	25	11	10
169000	KN 25 E	40	25	11	10
130050	KN 25 E	40	28	7	6
169013	KN 25 E	40	28	9	8
79885	KNA 28 E	40	28	11	10
169014	KN 25 E	40	28	11	10
169015	KN 25 E	40	30	5.5	5
169016	KN 25 E	40	30	6.5	5.5
169017	KN 25 E	40	30	7	6
168613	KNA 28 E	40	30	7.5	6.5
169018	KN 25 E	40	30	7.5	6.5
46934	KNA 28 E	40	30	8	7
169019	KN 25 E	40	30	8	7
169020	KN 25 E	40	30	9	8
15769	KNA 28 E	40	30	11	10
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65864	KNA 28 E	40	32	6.3	5.7
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169027	KN 25 E	40	32	9	8
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15811	KNA 28 E	40	33	9	8
124359	KNA 28 E	42	22	11	10
78225	KN 25 E	42	25	8	7
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169032	KN 25 E	42	30	11	10
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168625	KNA 28 E	42	32	11	10.5
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Sizes



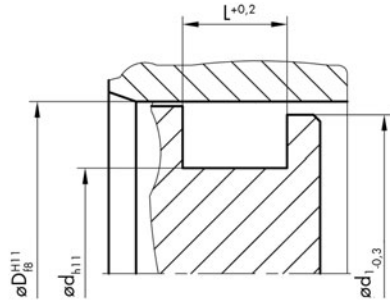
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169042	KN 25 E	43	35	9	8
169043	KN 25 E	43.5	35.5	9	8
168628	KNA 28 E	44	20	12	11
169044	KN 25 E	44	28	9	8
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169046	KN 25 E	44	36	6.5	5.7
72771	KNA 28 E	44.45	30.16	8.72	7.89
169047	KN 25 E	44.45	31.75	10.31	9.52
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168629	KNA 28 E	45	28.5	13	12
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169064	KN 25 E	46	28	11	10
169065	KN 25 E	46	30	11	10
169066	KN 25 E	46	36	8	7
169067	KN 25 E	46	36	11	10
169068	KN 25 E	46	38	7.5	6.5
169069	KN 25 E	47	26	13	12
169070	KN 25 E	47	32	11	10
169071	KN 25 E	47	35	11	10
169072	KN 25 E	47	39	7	6
169073	KN 25 E	47.62	38.1	8.72	7.93
78226	KN 25 E	48	32	8	7
169076	KN 25 E	48	35	11	10
169077	KN 25 E	48	40	6	5
169078	KN 25 E	48	40	9	8
169079	KN 25 E	48	40	12	11
169080	KN 25 E	50	30	11	10
15770	KNA 28 E	50	30	13	12
169081	KN 25 E	50	30	13	12
168630	KNA 28 E	50	32	11	10
169082	KN 25 E	50	32	11	10
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169085	KN 25 E	50	34	15	14

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Sizes

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169089	KN 25 E	50	35	11	10
169091	KN 25 E	50	36	9	8
7553	KN 25 E	50	36	11	10
131095	KNA 28 E	50	36	11	10
169095	KN 25 E	50	38	7	6
169096	KN 25 E	50	38	10	9
169097	KN 25 E	50	38	11	10
168633	KNA 28 E	50	40	5.5	5
169098	KN 25 E	50	40	6	5
169099	KN 25 E	50	40	7	6
169100	KN 25 E	50	40	7.5	6.5
169102	KN 25 E	50	40	8	7.2
73755	KNA 28 E	50	40	8	7
169103	KN 25 E	50	40	8	7
169104	KN 25 E	50	40	9	8
133008	KN 25 E	50	40	10	9
15772	KNA 28 E	50	40	11	10
169107	KN 25 E	50	40	11	10
168635	KNA 28 E	50	42	6	5.5
15866	KNA 28 E	50	42	9	8
169108	KN 25 E	50	42	9	8
168636	KNA 28 E	50	42	11	10
159025	KNA 28 E	50.8	34.92	13.48	12.7
169109	KN 25 E	50.8	38.1	10.31	9.52
159026	KNA 28 E	50.8	38.1	10.31	9.52
168638	KNA 28 E	50.8	40.8	8	7.5
159027	KNA 28 E	50.8	41.27	5.38	4.76
159028	KNA 28 E	50.8	41.27	8.72	7.93
159029	KNA 28 E	50.8	41.27	10.31	9.52
117395	KN 25 E	51	36	11	10
169112	KN 25 E	52	32	11	10
169115	KN 25 E	52	42	7	6
169117	KN 25 E	52	42	10	9
168639	KNA 28 E	52	42	10.6	10
169118	KN 25 E	52	42	11	10
169119	KN 25 E	53	45	6.5	5.7
168641	KNA 28 E	53	45	9	8
169120	KN 25 E	53	45	9	8
169121	KN 25 E	53	45	13	12
65881	KNA 28 E	54	44	8	7.3
169122	KN 25 E	55	35	11	10
124200	KNA 28 E	55	35	13	12
169123	KN 25 E	55	35	13	12
169124	KN 25 E	55	38	11	10
168642	KNA 28 E	55	40	11	10
169125	KN 25 E	55	40	11	10
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169127	KN 25 E	55	45	7	6
169128	KN 25 E	55	45	7.5	6.5
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Sizes



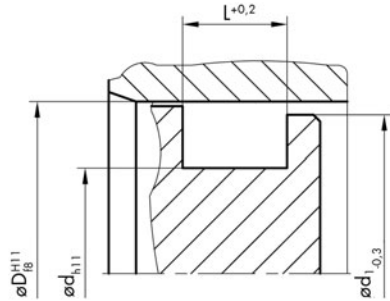
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169132	KN 25 E	55	45	13	12
168645	KNA 28 E	55	47	6.3	4.8
130051	KN 25 E	56	36	11	10
169136	KN 25 E	56	40	9	8
169137	KN 25 E	56	40	11	10
65888	KNA 28 E	56	45	8	7
169138	KN 25 E	56	45	8	7
65889	KNA 28 E	56	46	7	6
169140	KN 25 E	57	50	11	10
159030	KNA 28 E	57.15	44.45	10.31	9.52
169141	KN 25 E	57.15	44.45	10.31	9.52
169142	KN 25 E	57.15	47.62	10.31	9.52
159031	KNA 28 E	57.15	47.62	10.31	9.52
169143	KN 25 E	57.7	45	10.5	9.5
169144	KN 25 E	58	38	11	10
169145	KN 25 E	58	48	11	10
169146	KN 25 E	58	50	9	8
169147	KN 25 E	60	40	11	10
15797	KNA 28 E	60	40	13	12
169148	KN 25 E	60	40	13	12
169149	KN 25 E	60	40	14	13
168646	KNA 28 E	60	40	14.5	13.5
169150	KN 25 E	60	40	19	18
15798	KNA 28 E	60	45	11	10
169151	KN 25 E	60	45	11	10
169153	KN 25 E	60	48	10	9
168647	KNA 28 E	60	50	5.5	5
169154	KN 25 E	60	50	6	5
169155	KN 25 E	60	50	7	6
15817	KNA 28 E	60	50	8	7
169156	KN 25 E	60	50	8	7.2
65893	KNA 28 E	60	50	9	8
169158	KN 25 E	60	50	9	8
15799	KNA 28 E	60	50	11	10
169159	KN 25 E	60	50	11	10
169160	KN 25 E	60	50	12	11
169161	KN 25 E	60	50	13	12
169162	KN 25 E	60	50	14	13
168648	KNA 28 E	60	52	9	8
169163	KN 25 E	60.32	50.8	7.14	6.35
169164	KN 25 E	60.32	50.8	8.72	7.93
169165	KN 25 E	60.32	50.8	10.31	9.52
169167	KN 25 E	62	42	13	12
169168	KN 25 E	62	50	10	9
169169	KN 25 E	62	52	13	12
15775	KNA 28 E	63	43	13	12
168649	KNA 28 E	63	45	11	10
169170	KN 25 E	63	45	11	10
124201	KNA 28 E	63	45	13	12
169171	KN 25 E	63	45	13	12
65897	KNA 28 E	63	48	9.5	9
168650	KNA 28 E	63	48	11	10

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169172	KN 25 E	63	48	11	10
65895	KNA 28 E	63	48	12.5	11.4
15776	KNA 28 E	63	48	13	12
169173	KN 25 E	63	50	7	6
169174	KN 25 E	63	50	9	8
169176	KN 25 E	63	50	10	9
169177	KN 25 E	63	50	11	10
169178	KN 25 E	63	53	6	5
65898	KNA 28 E	63	53	7	6
169179	KN 25 E	63	53	7.5	6.5
15819	KNA 28 E	63	53	8	7
169180	KN 25 E	63	53	11	10
133013	KN 25 E	63	53	13	12
15777	KNA 28 E	63	53	13	12
168652	KNA 28 E	63	53.6	8	7
65899	KNA 28 E	63	55	6.3	5.7
159032	KNA 28 E	63.5	41.27	13.48	12.7
159033	KNA 28 E	63.5	47.62	13.48	12.7
159034	KNA 28 E	63.5	50.8	7.14	6.35
159035	KNA 28 E	63.5	50.8	10.31	9.52
169183	KN 25 E	63.5	50.8	10.31	9.52
159036	KNA 28 E	63.5	53.97	7.14	6.35
159037	KNA 28 E	63.5	53.97	8.72	7.93
159038	KNA 28 E	63.5	53.97	10.31	9.52
85881	KN 25 E	64	48	13	12
169187	KN 25 E	65	40	11	10
169188	KN 25 E	65	40	13	12
76182	KN 25 E	65	40	20	18.7
169191	KN 25 E	65	45	11	10
168653	KNA 28 E	65	45	13	12
169192	KN 25 E	65	45	13	12
14527	KN 25 E	65	48	11	10
15803	KNA 28 E	65	50	11	10
169164	KN 25 E	65	50	11	10
168654	KNA 28 E	65	50	12.5	11.5
169203	KN 25 E	65	50	13	12
169204	KN 25 E	65	55	6	5
169205	KN 25 E	65	55	7	6
65901	KNA 28 E	65	55	8	7.3
169206	KN 25 E	65	55	11	10
168655	KNA 28 E	65	55	11	10
169207	KN 25 E	65	55	13	12
168656	KNA 28 E	65	55	14.5	13.5
149572	KN 25 E	66	56	6	5
169210	KN 25 E	66	56	7.5	6.7
65904	KNA 28 E	67	57	8	7.3
168657	KNA 28 E	68	48	11	10
169211	KN 25 E	68	48	11	10
169212	KN 25 E	68	60	9	8
73757	KNA 28 E	68	60	9	8
169213	KN 25 E	68	60	11	10
169214	KN 25 E	69.85	50.8	14.3	12.7
169215	KN 25 E	69.85	57.15	10.31	9.52
169216	KN 25 E	70	36	11	10
169218	KN 25 E	70	40	16	15

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Sizes



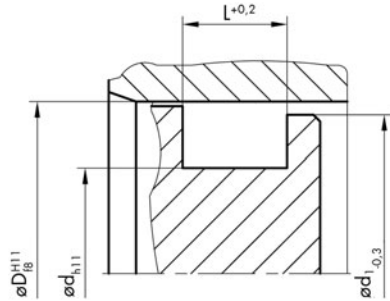
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74275	KN 25 E	70	48	11	10
108747	KN 25 E	70	50	9	8
169225	KN 25 E	70	50	11	10
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169226	KN 25 E	70	50	13	12
168659	KNA 28 E	70	50	14.5	13.5
168660	KNA 28 E	70	50	16	15
169227	KN 25 E	70	50	19	18
68284	KN 25 E	70	55	9	8
168661	KNA 28 E	70	55	10.5	10
169230	KN 25 E	70	55	11	10
65907	KNA 28 E	70	55	11	10
15801	KNA 28 E	70	55	13	12
169231	KN 25 E	70	55	13	12
169233	KN 25 E	70	59	9	8
169234	KN 25 E	70	60	6	5
65908	KNA 28 E	70	60	7	6
169236	KN 25 E	70	60	7	6
168662	KNA 28 E	70	60	8	7.5
169237	KN 25 E	70	60	9	8
65909	KNA 28 E	70	60	9	8
169238	KN 25 E	70	60	11	10
15778	KNA 28 E	70	60	13	12
169239	KN 25 E	70	60	13	12
14732	KN 25 E	70	60	14	13
168663	KNA 28 E	70	60	14.5	13.5
168664	KNA 28 E	70	62	8.5	7.5
168665	KNA 28 E	70	62	9	8
169242	KN 25 E	71	56	11	10
65916	KNA 28 E	71	61	7	6
71716	KN 25 E	72	42	11	10
169245	KN 25 E	72	50	11	10
169246	KN 25 E	72	54	11	10
168666	KNA 28 E	72	58	13	12
169247	KN 25 E	73	63	6	5
169248	KN 25 E	74	50	16	15
77713	KN 25 E	74	58	14	13
169252	KN 25 E	75	40	11	10.5
169253	KN 25 E	75	50	9	8
169254	KN 25 E	75	50	13	12
168667	KNA 28 E	75	50	15	14
169255	KN 25 E	75	55	11	10
65919	KNA 28 E	75	55	13	12
169256	KN 25 E	75	55	13	12
168668	KNA 28 E	75	55	14.5	13.5
169257	KN 25 E	75	60	9	8
169258	KN 25 E	75	60	11	10
124202	KNA 28 E	75	60	13	12
169259	KN 25 E	75	60	13	12
169260	KN 25 E	75	63	10	9
169261	KN 25 E	75	63	11	10
169262	KN 25 E	75	63	13	12
168669	KNA 28 E	75	65	5.5	5
169263	KN 25 E	75	65	7	6

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Item No.	Code	D	d	L	H
168670	KNA 28 E	75	65	8	7.5
168671	KNA 28 E	75	65	11	10.5
169264	KN 25 E	75	65	11	10
169265	KN 25 E	75	65	13	12
168672	KNA 28 E	75	65	14.5	13.5
169267	KN 25 E	76	66	9	8
169268	KN 25 E	76.2	57.15	14.3	12.7
159039	KNA 28 E	76.2	60.32	13.48	12.7
159040	KNA 28 E	76.2	63.5	7.14	6.35
159041	KNA 28 E	76.2	63.5	10.31	9.52
169269	KN 25 E	76.2	63.5	10.31	9.52
159042	KNA 28 E	76.2	66.67	10.31	9.52
169270	KN 25 E	77	67	11	10
169271	KN 25 E	77	67	13	12
169272	KN 25 E	78	63	11	10
169273	KN 25 E	78	68	13	12
169274	KN 25 E	78	70	14.5	13.5
169275	KN 25 E	80	55	13	12
169276	KN 25 E	80	55	19	18
169277	KN 25 E	80	60	11	10
15779	KNA 28 E	80	60	13	12
169279	KN 25 E	80	60	13	12
168673	KNA 28 E	80	60	14.5	13.5
65926	KNA 28 E	80	60	16	14.5
169280	KN 25 E	80	60	19	18
169281	KN 25 E	80	63	10	9
169282	KN 25 E	80	63	11	10
169283	KN 25 E	80	64	9	8
169284	KN 25 E	80	65	11	10
169285	KN 25 E	80	65	12	11
65929	KNA 28 E	80	65	12.5	11.4
15780	KNA 28 E	80	65	13	12
169286	KN 25 E	80	65	13	12
14707	KN 25 E	80	66	11	10
169289	KN 25 E	80	70	6	5
169290	KN 25 E	80	70	7	6
65930	KNA 28 E	80	70	7.5	6.7
15829	KNA 28 E	80	70	8	7
169291	KN 25 E	80	70	8	7
169292	KN 25 E	80	70	9	8
65931	KNA 28 E	80	70	9	8
169293	KN 25 E	80	70	11	10
15781	KNA 28 E	80	70	13	12
169294	KN 25 E	80	70	13	12
15873	KNA 28 E	80	72	13	12
75394	KN 25 E	81	59	11	10
110382	KN 25 E	82	70	10.5	9.5
169299	KN 25 E	82	70	11	10
169300	KN 25 E	82.55	63.5	14.3	12.7
159043	KNA 28 E	82.55	66.67	13.48	12.7
159044	KNA 28 E	82.55	69.85	7.14	6.35
159045	KNA 28 E	82.55	69.85	10.31	9.52
159046	KNA 28 E	82.55	73.02	7.14	6.35
169301	KN 25 E	83	63	16	15
169302	KN 25 E	85	60	11	10

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Sizes



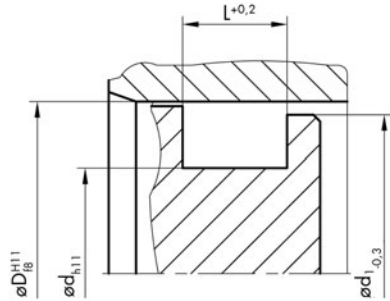
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169306	KN 25 E	85	65	11	10
169307	KN 25 E	85	65	13	12
168675	KNA 28 E	85	65	14.5	13.5
169309	KN 25 E	85	70	11	10
15782	KNA 28 E	85	70	13	12
169310	KN 25 E	85	70	13	12
65937	KNA 28 E	85	75	9	8
168676	KNA 28 E	85	75	11	10
169311	KN 25 E	85	75	11	10
168677	KNA 28 E	85	75	13	12
169312	KN 25 E	85	75	13	12
89882	KN 25 E	88.9	69.85	12.7	11.7
159047	KNA 28 E	88.9	69.85	13.48	12.7
159049	KNA 28 E	88.9	69.85	17.47	15.87
159050	KNA 28 E	88.9	73.02	8.72	7.93
159051	KNA 28 E	88.9	73.02	13.48	12.7
159052	KNA 28 E	88.9	76.2	7.14	6.35
159053	KNA 28 E	88.9	76.2	10.31	9.52
169315	KN 25 E	88.9	76.2	10.31	9.52
159054	KNA 28 E	88.9	79.37	10.31	9.52
158537	KNA 28 E	89	79.5	8	7
169316	KN 25 E	90	60	16	15
124204	KNA 28 E	90	65	13	12
169317	KN 25 E	90	65	13	12
169318	KN 25 E	90	65	19	18
169319	KN 25 E	90	70	11	10
15832	KNA 28 E	90	70	13	12
169320	KN 25 E	90	70	13	12
168678	KNA 28 E	90	70	14.5	13.5
169321	KN 25 E	90	70	19	18
169322	KN 25 E	90	75	8.5	7.5
169323	KN 25 E	90	75	10	9
169324	KN 25 E	90	75	11	10
65940	KNA 28 E	90	75	12.5	11.4
15875	KNA 28 E	90	75	13	12
169325	KN 25 E	90	75	13	12
168679	KNA 28 E	90	80	5.5	5
169326	KN 25 E	90	80	6	5
169327	KN 25 E	90	80	7	6
169328	KN 25 E	90	80	9	8
168680	KNA 28 E	90	80	11	10
169329	KN 25 E	90	80	11	10
169330	KN 25 E	90	80	13	12
168681	KNA 28 E	90	80	14	13
169331	KN 25 E	90	80	14.5	13.5
15783	KNA 28 E	90	80	14.5	13.5
169333	KN 25 E	92	82	11	10
169335	KN 25 E	93	78	11.5	10.5
169336	KN 25 E	95	70	13	12
169337	KN 25 E	95	75	11	10
169338	KN 25 E	95	75	13	12
168682	KNA 28 E	95	75	14.5	13.5
169340	KN 25 E	95	80	10	9

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Item No.	Code	D	d	L	H
124205	KNA 28 E	95	80	13	12
169341	KN 25 E	95	80	13	12
168684	KNA 28 E	95	85	7.5	7
168685	KNA 28 E	95	85	8	7.5
168686	KNA 28 E	95	85	9.5	9
169342	KN 25 E	95	85	9.5	8.5
74294	KN 25 E	95	85	10.5	9.5
169345	KN 25 E	95	85	13	12
168687	KNA 28 E	95	85	14.5	13.5
159055	KNA 28 E	95.25	82.55	10.31	9.52
169346	KN 25 E	96	72	13	12
169347	KN 25 E	98	83	14.5	13.5
169348	KN 25 E	100	75	16	15
169349	KN 25 E	100	78	16	15
22429	KNA 28 E	100	80	11	10
169350	KN 25 E	100	80	11	10
15784	KNA 28 E	100	80	13	12
169351	KN 25 E	100	80	13	12
15840	KNA 28 E	100	80	14.5	13.5
65947	KNA 28 E	100	80	16	15
169352	KN 25 E	100	80	19	18
169353	KN 25 E	100	84	14.5	13.5
169354	KN 25	100	85	9	8
169355	KN 25 E	100	85	10	9
169356	KN 25 E	100	85	12	11
65949	KNA 28 E	100	85	12.5	11.4
15785	KNA 28 E	100	85	13	12
169358	KN 25 E	100	85	13	12
168688	KNA 28 E	100	86	13	12
168689	KNA 28 E	100	88	9.5	8.5
169361	KN 25 E	100	90	6	5
168690	KNA 28 E	100	90	8	7
169362	KN 25 E	100	90	8	7
169363	KN 25 E	100	90	9	8
169364	KN 25 E	100	90	11	10
15842	KNA 28 E	100	90	11.5	10.5
169365	KN 25 E	100	90	13	12
169366	KN 25 E	101.6	76.2	14.3	12.7
168692	KNA 28 E	101.6	80	13	12
159056	KNA 28 E	101.6	82.55	10.31	9.52
159057	KNA 28 E	101.6	82.55	13.48	12.7
159058	KNA 28 E	101.6	82.55	17.47	15.87
159059	KNA 28 E	101.6	85.72	13.48	12.7
159060	KNA 28 E	101.6	88.9	7.14	6.35
159061	KNA 28 E	101.6	88.9	8.72	7.93
159062	KNA 28 E	101.6	88.9	10.31	9.52
169367	KN 25 E	101.6	88.9	10.31	9.52
159063	KNA 28 E	101.6	92.07	10.31	9.52
169368	KN 25 E	104.77	88.9	8.72	7.93
169369	KN 25 E	105	80	13	12
169370	KN 25 E	105	85	13	12
169372	KN 25 E	105	85	19	18
67893	KN 25 E	105	90	10	9
15843	KNA 28 E	105	90	13	12
169375	KN 25 E	105	90	13	12

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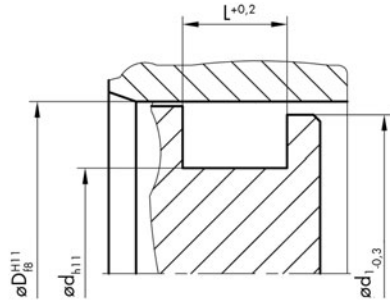
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14580	KN 25 E	108	98	11	10
169381	KN 25 E	110	85	13	12
124209	KNA 28 E	110	85	16	15
169382	KN 25 E	110	90	11	10
15844	KNA 28 E	110	90	13	12
169383	KN 25 E	110	90	13	12
65952	KNA 28 E	110	90	16	15
169384	KN 25 E	110	90	19	18
67900	KN 25 E	110	95	10	9
117432	KN 25 E	110	95	11	10
65954	KNA 28 E	110	95	11	10
15845	KNA 28 E	110	95	13	12
169389	KN 25 E	110	95	13	12
169390	KN 25 E	110	95	16	15
169391	KN 25 E	110	100	6	5
168694	KNA 28 E	110	100	8	7
169393	KN 25 E	110	100	9	8
168695	KNA 28 E	110	100	14.5	13.5
169395	KN 25 E	112	95	12	11
159065	KNA 28 E	114.3	95.25	17.47	15.87
159066	KNA 28 E	114.3	101.6	10.31	9.52
169397	KN 25 E	115	85	16	15
169398	KN 25 E	115	90	13	12
124210	KNA 28 E	115	90	16	15
169399	KN 25 E	115	90	16	15
66740	KN 25 E	115	90	23	22
169404	KN 25 E	115	95	13	12
65960	KNA 28 E	115	95	16	15
169405	KN 25 E	115	95	19	18
159393	KNA 28 E	115	98	16	14.5
169406	KN 25 E	115	100	10	9
168696	KNA 28 E	115	100	11.5	10.5
169407	KN 25 E	115	100	13	12
168697	KNA 28 E	115	105	14.5	13.5
169409	KN 25 E	120	90	16	15
168698	KNA 28 E	120	95	13	12
169410	KN 25 E	120	100	11	10
15848	KNA 28 E	120	100	13	12
169412	KN 25 E	120	100	13	12
168699	KNA 28 E	120	100	14.5	13.5
169413	KN 25 E	120	100	16	15
169414	KN 25 E	120	100	19	18
168700	KNA 28 E	120	103	17	16
169415	KN 25 E	120	105	9	8
82820	KNA 28 E	120	105	13	12
169416	KN 25 E	120	105	16	15
169417	KN 25 E	120	106	9.5	8.5
15787	KNA 28 E	125	95	19	18
169418	KN 25 E	125	100	13	12
124212	KNA 28 E	125	100	16	15
169419	KN 25 E	125	100	16	15
169420	KN 25 E	125	105	11	10

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Item No.	Code	D	d	L	H
15850	KNA 28 E	125	105	13	12
169421	KN 25 E	125	105	13	12
169422	KN 25 E	125	105	15	14
15788	KNA 28 E	125	105	16	15
169423	KN 25 E	125	105	16	15
65967	KNA 28 E	125	110	10.6	9.6
168701	KNA 28 E	125	110	11	10
169424	KN 25 E	125	110	13	12
169425	KN 25 E	125	110	16	15
169426	KN 25 E	125	113	10.5	9.5
15851	KNA 28 E	125	115	8	7
15852	KNA 28 E	125	115	16	15
169427	KN 25 E	125	115	16	15
171052	KN 25 E	126	115	16	15
159067	KNA 28 E	127	107.95	10.31	9.52
159068	KNA 28 E	127	107.95	13.48	12.7
159069	KNA 28 E	127	107.95	17.47	15.87
159070	KNA 28 E	127	114.3	7.14	6.35
159071	KNA 28 E	127	114.3	10.31	9.52
159072	KNA 28 E	127	114.3	15.72	14.28
73197	KN 25 E	127	114.3	16	14.5
169430	KN 25 E	130	100	13	12
169432	KN 25 E	130	100	16	15
36641	KN 25 E	130	100	19	18
169435	KN 25 E	130	105	13	12
149573	KN 25 E	130	110	11	10
15853	KNA 28 E	130	110	13	12
169438	KN 25 E	130	110	13	12
22676	KNA 28 E	130	110	16	15
169439	KN 25 E	130	110	16	15
169440	KN 25 E	130	110	19	18
169442	KN 25 E	130	115	11	10
169443	KN 25 E	130	115	16	15
169444	KN 25 E	130	120	6	5
168702	KNA 28 E	130	120	14.5	13.5
169446	KN 25 E	130	120	15	14
169447	KN 25 E	130.17	114.3	10.31	9.52
159073	KNA 28 E	133.35	114.3	13.48	12.7
169448	KN 25 E	135	100	17	16
169450	KN 25 E	135	110	19	18
169451	KN 25 E	135	115	13	12
169452	KN 25 E	135	115	16	15
169453	KN 25 E	135	120	16	15
159074	KNA 28 E	139.7	120.65	17.47	15.87
117436	KN 25 E	140	110	19	18
168703	KNA 28 E	140	114	13	12
169456	KN 25 E	140	115	16	15
14750	KN 25 E	140	115	23	22
169459	KN 25 E	140	120	11	10
15855	KNA 28 E	140	120	13	12
169460	KN 25 E	140	120	13	12
65974	KNA 28 E	140	120	16	15
169461	KN 25 E	140	120	16	15
168705	KNA 28 E	140	125	10	9
169462	KN 25 E	140	125	12	11

KNA 28/KN 25

Sizes



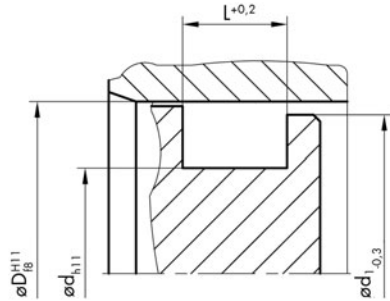
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169463	KN 25 E	140	125	13	12
124214	KNA 28 E	140	125	16	15
169464	KN 25 E	140	125	16	15
73763	KNA 28 E	145	115	18.6	18
169465	KN 25 E	145	115	19	18
149574	KN 25 E	145	125	11	10
169468	KN 25 E	145	125	16	15
169470	KN 25 E	145	125	19	18
171053	KN 25 E	146	136	7	6
169471	KN 25 E	146.05	127	10.31	9.52
169472	KN 25 E	150	120	16	15
65978	KNA 28 E	150	120	19	18
169473	KN 25 E	150	125	13	12
168706	KNA 28 E	150	125	14.5	13.5
169474	KN 25 E	150	130	11	10
15802	KNA 28 E	150	130	16	15
169475	KN 25 E	150	130	16	15
65983	KNA 28 E	150	135	10	9
169476	KN 25 E	150	135	16	15
169477	KN 25 E	150	140	6	5
168707	KNA 28 E	150	140	8	7
158613	KN 25 E	150	140	16	15
95551	KN 25 E	152	142	7	6
159077	KNA 28 E	152.4	133.35	10.31	9.52
159078	KNA 28 E	152.4	133.35	13.48	12.7
159079	KNA 28 E	152.4	133.35	17.47	15.87
159080	KNA 28 E	152.4	139.7	7.14	6.35
169482	KN 25 E	152.4	139.7	10.31	9.52
159081	KNA 28 E	152.4	139.7	10.31	9.52
159082	KNA 28 E	152.4	139.7	15.72	14.28
169483	KN 25 E	155	125	16	15
169484	KN 25 E	155	135	16	15
169485	KN 25 E	155	140	16	15
72400	KN 25 E	158	138	13	12
159083	KNA 28 E	158.75	146.05	15.72	14.28
65988	KNA 28 E	160	130	19	18
169489	KN 25 E	160	130	19	18
169490	KN 25 E	160	135	16	15
65989	KNA 28 E	160	135	20	18.5
169492	KN 25 E	160	140	11	10
169493	KN 25 E	160	140	13	12
168708	KNA 28 E	160	140	14.5	13.5
15789	KNA 28 E	160	140	16	15
169494	KN 25 E	160	140	16	15
46376	KN 25 E	160	145	10	9
168710	KNA 28 E	160	145	10	9
169497	KN 25 E	160	146	10	9
168711	KNA 28 E	160	148	7.5	7
88285	KNA 28 E	160	148	16.5	15.5
169498	KN 25 E	165	145	16	15
90269	KN 25 E	170	140	16	15
168712	KNA 28 E	170	145	20	19
169501	KN 25 E	170	146	15	14
15878	KNA 28 E	170	150	16	15
169502	KN 25 E	170	150	16	15

KNA 28/KN 25**Sizes**

Item No.	Code	D	d	L	H
169503	KN 25 E	170	150	19	18
149576	KN 25 E	170	160	6	5
168714	KNA 28 E	174.8	165.2	7.5	7
169506	KN 25 E	175	155	16	15
169507	KN 25 E	175	160	8.5	7.5
169509	KN 25 E	175	160	16	15
169510	KN 25 E	177.8	152.4	14.3	12.7
159084	KNA 28 E	177.8	158.75	10.31	9.52
159085	KNA 28 E	177.8	158.75	13.48	12.7
159086	KNA 28 E	177.8	158.75	17.47	15.87
159087	KNA 28 E	177.8	165.1	7.14	6.35
159088	KNA 28 E	177.8	165.1	10.31	9.52
169512	KN 25 E	180	150	16	15
169166	KN 25 E	180	150	19	18
124215	KNA 28 E	180	150	19	18
169515	KN 25 E	180	155	16	15
168715	KNA 28 E	180	160	14.5	13.5
66008	KNA 28 E	180	160	16	15
169517	KN 25 E	180	160	16	15
156389	KNA 28 E	180	165	19	18
168683	KNA 28 E	180	166	16.5	15.5
169518	KN 25 E	183	170	9.5	8.5
169520	KN 25 E	185	160	16	15
169521	KN 25 E	185	170	16	14.7
169522	KN 25 E	187	175	10.5	9.5
169523	KN 25 E	190	160	13	12
169524	KN 25 E	190	160	16	15
169525	KN 25 E	190	160	19	18
169526	KN 25 E	190	160	20	19
169527	KN 25 E	190	165	16	15
66013	KNA 28 E	190	165	17	16
168717	KNA 28 E	190	170	16	15
169528	KN 25 E	190	170	16	15
169529	KN 25 E	195	170	16	15
169531	KN 25 E	200	170	16	15
168718	KNA 28 E	200	170	19	18
169533	KN 25 E	200	170	19	18
169534	KN 25 E	200	175	16	15
158027	KNA 28 E	200	175	19.2	18.2
15860	KNA 28 E	200	180	14.5	13.5
35466	KNA 28 E	200	180	16	15
169535	KN 25 E	200	180	16	15
169536	KN 25 E	200	180	19	18
84196	KN 25 E	200	182	26	25
169539	KN 25 E	200	185	8.5	7.5
120904	KNA 28 E	200	186	14.5	15.5
159089	KNA 28 E	203.2	184.15	17.47	15.87
159090	KNA 28 E	203.2	190.5	7.14	6.35
169540	KN 25 E	205	185	16	15
117402	KN 25 E	210	180	23	22
169543	KN 25 E	210	190	16	15
79562	KN 25 E	215	170	21	20
124160	KN 25 E	215	175	21	20
14752	KN 25 E	220	180	21	20
79758	KN 25 E	220	190	16	15

KNA 28/KN 25

Sizes



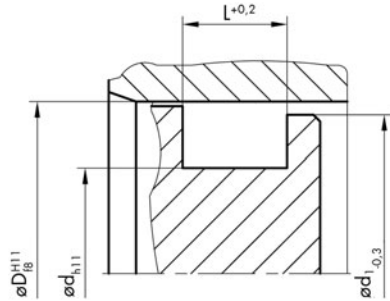
Item No.	Code	D	d	L	H
169551	KN 25 E	220	190	19	18
66032	KNA 28 E	220	190	19	18
67943	KN 25 E	220	190	27	26
66033	KNA 28 E	220	195	17	16
169553	KN 25 E	220	200	11	10
15790	KNA 28 E	220	200	16	15
169554	KN 25 E	220	200	16	15
169555	KN 25 E	225	200	16	15
169557	KN 25 E	225	200	19	18
168720	KNA 28 E	228.6	196.85	20.95	19.05
159091	KNA 28 E	228.6	203.2	20.95	19.05
169558	KN 25 E	230	200	16	15
169559	KN 25 E	230	200	18	17
14725	KN 25 E	230	200	19	18
90420	KN 25 E	230	200	23	22
81201	KN 25 E	230	210	16	15
71368	KN 25 E	235	200	10	9
124163	KN 25 E	235	200	21	20
169574	KN 25 E	235	205	19	18
72595	KN 25 E	235	220	10	9
169577	KN 25 E	237	212	19	18
169578	KN 25 E	240	200	16	15
169579	KN 25 E	240	210	19	18
169580	KN 25 E	240	220	16	15
82413	KN 25 E	245	215	19	18
169584	KN 25 E	245	225	16	15
71367	KN 25 E	247	235	10	9
27552	KN 25 E	250	220	16	15
15791	KNA 28 E	250	220	19	18
171057	KN 25 E	250	220	19	18
124165	KN 25 E	250	220	21	20
66059	KNA 28 E	250	230	13	12
14621	KN 25 E	250	230	16	15
66060	KNA 28 E	250	230	16	15
124374	KNA 28 E	250	238	15	14
90271	KN 25 E	260	220	21	20
76156	KN 25 E	260	240	13	12
14622	KN 25 E	260	240	18	17
46395	KN 25 E	261	236	19	18
46398	KN 25 E	265	240	19	18
82231	KN 25 E	265	245	16	15
116836	KN 25 E	268	240	19	18
14734	KN 25 E	270	240	16	15
14623	KN 25 E	270	240	19	18
171717	KN 25 E	270	245	16	15
89364	KN 25 E	270	250	17	16
90270	KN 25 E	280	240	21	20
130249	KN 25 E	280	250	19	18
15792	KNA 28 E	280	250	19	18
85651	KN 25 E	280	250	20	19
14625	KN 25 E	280	250	23	22
90340	KN 25 E	280	260	16	15
82769	KN 25 E	290	240	19	18
124168	KN 25 E	290	260	19	18
76481	KN 25 E	290	265	18	17

KNA 28/KN 25**Sizes**

Item No.	Code	D	d	L	H
22827	KN 25 E	290	270	18	17
79760	KN 25 E	300	260	21	20
14626	KN 25 E	300	270	16	15
130253	KN 25 E	300	270	23	22
22417	KN 25 E	300	280	16	15
29709	KNA 28 E	300	288	15	14
81381	KNA 28 E	304.8	266.7	20.95	19.05
30585	KN 25 E	310	280	19	18
14628	KN 25 E	310	290	13	12
130250	KN 25 E	320	190	23	22
126459	KNA 28 E	320	280	23	22
45373	KNA 28 E	320	285	21	20
22825	KNA 28 E	320	290	21	20
130436	KN 25 E	320	290	22	21
130510	KN 25 E	320	290	23	22
27296	KN 25 E	320	295	19	18
84949	KN 25 E	320	300	16	15
76483	KN 25 E	320	305	18	17
86441	KN 25 E	330	300	19	18
14629	KN 25 E	330	300	23	22
14630	KN 25 E	330	310	18	17
76519	KN 25 E	338.25	304.8	26.59	25.4
108582	KN 25 E	340	320	16	15
76528	KN 25 E	343.8	304.8	26.59	25.4
77574	KN 25 E	344.6	304.8	26.59	25.4
67961	KN 25 E	350	320	16	15
14634	KN 25 E	350	320	17	16
155864	KNA 28 E	350	320	23	22
107851	KN 25 E	350	320	23.5	22.5
73367	KN 25 E	350	320	27	26
81384	KNA 28 E	355.6	317.5	20.95	19.05
79761	KN 25 E	360	320	21	20
82766	KN 25 E	360	320	29	28
15794	KNA 28 E	360	320	29	28
81203	KN 25 E	360	330	21	20
66088	KNA 28 E	360	330	21	20
155978	KNA 28 E	360	330	26	25
121449	KNA 28 E	370	345	16	15
72477	KN 25 E	377	350	16	15
74123	KN 25 E	380	328	31	30
126213	KN 25 E	380	350	23	22
159394	KNA 28 E	380	350	27	26
151774	KN 25 E	390	350	36	35
14636	KN 25 E	390	360	23	22
66089	KNA 28 E	400	360	29	28
116179	KN 25 E	400	370	21	20
66090	KNA 28 E	400	370	21	20
65048	KN 25 E	400	370	23	22
73366	KN 25 E	400	370	27	26
130251	KN 25 E	410	380	23	22
130252	KN 25 E	420	390	23	22
81155	KN 25 E	425	400	23	22
6205	KN 25 E	430	400	21	20
130254	KN 25 E	430	400	23	22
129759	KN 25 E	430	400	26	25

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Item No.	Code	D	d	L	H
155865	KNA 28 E	430	400	26	25
81903	KN 25 E	445	401	29	28
162473	KN 25 E	450	400	42	40
81263	KN 25 E	450	410	21	20
143580	KN 25 E	450	420	21	20
130255	KN 25 E	450	420	23	22
88186	KN 25 E	457	425	25	24
74124	KN 25 E	470	430	29	28
151327	KN 25 E	480	450	21	20
77501	KN 25 E	490	450	35	34
143334	KN 25 E	500	450	26	25
162474	KN 25 E	500	470	26	25
89151	KN 25 E	510	470	29	28
115461	KN 25 E	520	500	11	10
82232	KN 25 E	525	500	23	22
89152	KN 25 E	530	490	29	28
77580	KN 25 E	530	500	19	18
59486	KN 25 E	540	500	35	34
74298	KN 25 E	550	500	40	38
149564	KN 25 E	550	520	26	25
151868	KNA 28 E	560	540	24	22
78599	KN 25 E	565	530	26	25
143331	KN 25 E	570	540	16	15
84948	KN 25 E	570	550	16	15
78361	KN 25 E	578	545	17.5	16.5
85882	KN 25 E	580	540	17	16
49577	KN 25 E	580	550	23.81	22.70
127134	KN 25 E	590	550	29	28
150997	KN 25 E	590	550	36	35
115757	KN 25 E	650	610	23	22
82948	KN 25 E	650	620	26	25
143332	KN 25 E	700	660	21	20
74450	KN 25 E	740	700	29	28
7502	KN 25 E	750	700	53	32
127429	KN 25 E	755.65	709.61	30.56	28.57
143333	KN 25 E	760	720	21	20
80586	KN 25 E	800	750	31	30
77281	KN 25 E	1016	965.2	20.65	19.05
115638	KNA 28 E	1400	1350	37	35