

# POWER<sup>®</sup> gasket KP Camprofile gaskets

Product name:	POWER <sup>®</sup> gasket KP Camprofile gaskets	Product specification No.:	D - 0021-0-EN	Date:	15. 08. 2013
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Camprofile seals consist of a metal core with a comb profile combined with a soft sealing layer of graphite or PTFE.

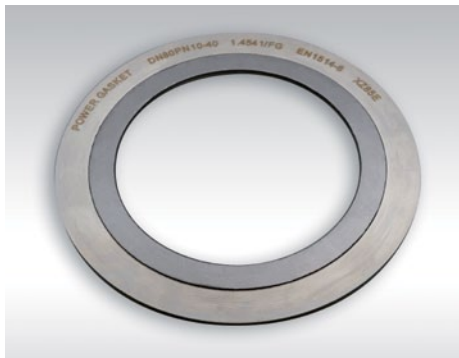
Due to their design, these seals are suitable for use in high pressure and heat stressed flange joints.

The advantage of comb seals is the reusability of the metal core after replacement of the soft sealing layer.

Simple and quick installation.

Possibility of producing bulkhead seals, especially for heat exchangers.

## POWER<sup>®</sup> gasket KP



### Advantages

- Excellent sealing properties
- Resist pressure and temperature fluctuations
- Compensate for uneven compression and installation errors
- Can be used on all types of flanges.
- The seal core can be reused multiple times after replacing the sealing layer

Material	temperature resistance	
	min.	max.
Graphit	-200	650 (pára)
PTFE	-200	250
MICA	-	1000

### Technical specifications

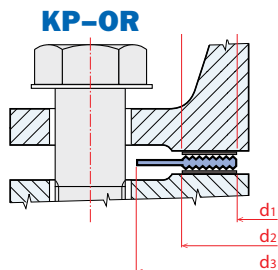
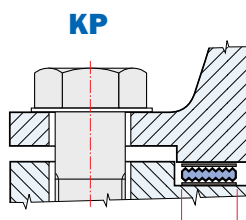
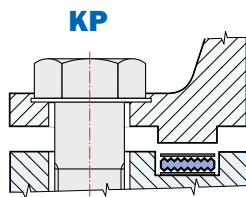
Quantity	unit	value
Minimum temperature resistance	°C	-200
Maximum temperature resistance	°C	+1000
Maximum pressure resistance	bar	400
Chemical resistance pH		0 - 14

### Metallic materials for core

ČSN/STN	DIN/ASI
17 240	1.4301/304
17 349	1.4404/316 L
17 348	1.4571/316 TI
17 248	1.4541/321
11 300	St 37/CS
Hastelloy B2	2.4615
Hastelloy C276	2.4819
Inconel 600	2.4816
Monel 400	2.4360
Titan Gr. 2	3.075

### Sealing surface material:

- **Graphit** - most common sealant for camprofile seals. Can be used in most applications except for some acids.
- **PTFE** - It is used where graphite seals are not suitable. Especially for acids and other corrosive media.
- **Mica** - higher temperatures and with different chemical resistance than graphite. Upon consultation.



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## KP a KP-OR For flanges with smooth sealing lip and collar/groove according to DIN

DN	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub> pro PN									
			10	16	25	40	64	100	160	250	320	400
10	22	36	46	46	46	46	56	56	56	67	67	67
15	26	42	51	51	51	51	61	61	61	72	72	78
20	31	47	61	61	61	61	-	-	-	-	-	-
25	36	52	71	71	71	71	82	82	82	83	92	104
32	46	66	82	82	82	82	-	-	-	-	-	-
40	53	73	92	92	92	92	103	103	103	109	119	135
50	65	87	107	107	107	107	113	119	119	124	134	150
65	81	103	127	127	127	127	137	143	143	153	170	192
80	95	121	142	142	142	142	148	154	154	170	190	207
100	118	144	162	162	168	168	174	180	180	202	229	256
125	142	176	192	192	194	194	210	217	217	242	274	301
150	170	203	217	217	224	224	247	257	257	284	311	348
175	195	229	247	247	254	265	277	287	284	316	358	402
200	224	258	272	272	284	290	309	324	324	358	398	442
250	275	315	327	328	340	352	364	391	388	442	488	-
300	325	365	377	383	400	417	424	458	458	536	-	-
350	375	420	437	443	457	474	486	512	-	-	-	-
400	426	474	489	495	514	546	543	572	-	-	-	-
450	480	528	539	555	-	571	-	-	-	-	-	-
500	530	578	594	617	624	628	657	704	-	-	-	-
600	630	680	695	734	731	747	764	813	-	-	-	-

## KP a KP-OR For flanges with smooth sealing lip and collar/groove according to DIN

DN	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub> pro PN					
			10	16	25	40	64	100
700	730	780	810	804	833	852	879	950
800	830	880	917	911	942	974	988	-
900	930	980	1017	1011	1042	1084	1108	-
1000	1040	1090	1124	1128	1154	1194	1220	-
1200	1250	1310	1341	1342	1364	1398	1452	-
1400	1440	1510	1548	1542	1578	1618	-	-
1600	1650	1730	1772	1764	1798	1830	-	-
1800	1850	1930	1972	1964	2000	-	-	-
2000	2050	2130	2182	2168	2230	-	-	-
2200	2250	2340	2384	2378	-	-	-	-
2400	2460	2550	2594	-	-	-	-	-
2600	2670	2760	2794	-	-	-	-	-
2800	2890	2980	3014	-	-	-	-	-
3000	3100	3190	3228	-	-	-	-	-

## For flanges with smooth sealing lip according to ASME / ANSI B 16.5

DN (in.)	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub> pro PN (psi)						
			150	300	400	600	900	1500	2500
1/2	23,0	33,3	44,4	50,8	50,8	50,8	60,3	60,3	66,7
3/4	28,6	39,7	53,9	63,5	63,5	63,5	66,7	66,7	73,0
1	36,5	47,6	63,5	69,8	69,8	69,8	76,2	76,2	82,5
1 1/4	44,4	60,3	73,0	79,4	79,4	79,4	85,7	85,7	101,6
1 1/2	52,4	69,8	82,5	92,1	92,1	92,1	95,2	95,2	114,3
2	69,8	88,9	101,6	108,0	108,0	108,0	139,7	139,7	142,8
2 1/2	82,5	101,6	120,6	127,0	127,0	127,0	161,9	161,9	165,1
3	98,4	123,8	133,4	146,1	146,1	146,1	165,1	171,5	193,7
3 1/2	111,1	136,5	158,8	161,9	158,7	158,7	-	-	-
4	123,8	154,0	171,5	177,8	174,6	190,5	203,2	206,4	231,7
5	150,8	182,6	193,7	212,7	209,5	238,1	244,5	250,8	276,2
6	177,8	212,7	219,1	147,7	244,5	263,5	285,8	279,4	314,3
8	228,6	266,7	276,2	304,8	301,6	317,5	355,6	349,3	384,1
10	282,6	320,7	336,5	358,8	355,6	396,9	431,8	431,8	473,0
12	339,7	377,8	406,4	419,1	415,9	454,0	495,3	517,5	546,1
14	371,5	409,6	447,7	482,6	479,4	488,9	517,5	574,7	-
16	422,3	466,7	511,2	536,6	533,4	561,9	571,5	638,1	-
18	479,4	530,2	546,1	593,7	590,5	609,6	635,0	701,7	-
20	530,2	581,0	603,2	650,9	644,5	679,5	695,3	752,4	-
22	581,0	631,8	657,2	701,7	698,5	730,3	-	-	-
24	631,8	682,6	714,4	771,5	765,2	787,4	835,0	898,5	-

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## KP-OR For smooth sealing lip type flanges according ASME B 16.47 serie A (MSS SP-44)

DN (in.)	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub> pro PN (psi)				
			150	300	400	600	900
26	690	740	772	832	829	864	880
28	740	790	829	895	889	911	943
30	800	850	880	949	943	968	1007
32	845	905	937	1003	1000	1019	1070
34	895	955	987	1054	1051	1070	1134
36	950	1010	1045	1114	1114	1127	1197
38	960	1020	1108	1051	1070	1102	1197
40	1015	1075	1159	1111	1124	1153	1248
42	1065	1125	1216	1162	1175	1216	1299
44	1125	1185	1273	1216	1229	1267	1365
46	1175	1235	1324	1270	1286	1324	1432
48	1220	1290	1381	1321	1343	1388	1483
50	1270	1350	1432	1375	1400	1445	-
52	1320	1400	1489	1426	1451	1495	-
54	1375	1455	1546	1489	1515	1553	-
56	1430	1510	1603	1540	1565	1610	-
58	1485	1565	1661	1591	1616	1661	-
60	1535	1615	1711	1642	1680	1730	-

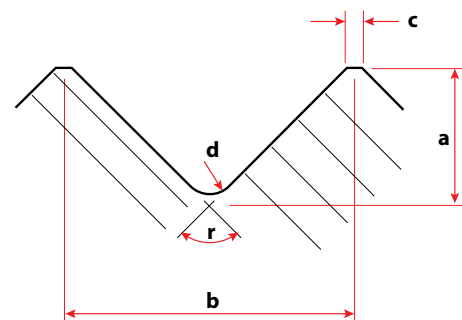
## KP-OR For smooth sealing lip type flanges according DIN 2697

DN	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub> pro PN					
			64	100	160	250	320	400
10	22	40	-	-	56	-	-	67
15	25	45	-	-	61	-	72	77
25	36	68	-	-	-	82	92	103
40	50	88	-	-	102	108	118	135
50	62	102	112	-	118	123	133	150
65	74	122	137	-	143	153	170	192
80	90	138	147	-	153	170	190	207
100	115	162	173	-	180	202	229	256
125	142	188	210	-	217	242	274	301
150	165	218	247	-	257	284	311	348
175	190	260	277	287	284	316	358	-
200	214	285	309	-	324	358	398	442
250	264	345	364	391	388	442	488	-
300	310	410	424	-	458	-	-	-
350	340	465	486	512	-	-	-	-
400	386	535	543	-	-	-	-	-

### Profile Types

	a	b	c	d	r
Typ A	0,33	1,00	0,10	0,3	90
Typ B	0,75	1,50	0,10	03	90

Calculation parameters	graphite	PTFE
<b>Gasket factor m</b>		
Carbon steel / Stainless steel	3,75 / 4,25	3,75 / 4,25
<b>Seating Stress Y (psi)</b>		
Carbon steel	≥ 53 MPa	≥ 53 MPa
Stainless steel	≥ 70 MPa	≥ 70 MPa



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