

2.3 KaMOS® Patented Intelligent Kammprofil Gasket

Karmsund Maritime Offshore Supply AS (KaMOS®) are now introducing a new leak test method for flanges with raised face and flat face that determine whether tightness has been achieved on all sealing surfaces before the flange and pipe are subjected to internal pressure, as well as monitoring the flange connections for future leakages.

The KaMOS® method is based on pressurizing the annular space between primary and secondary sealing using test medium. If no pressure loss is recorded the seal is deemed tight.

The test gas is applied using a small portable equipment containing: pressure bottle, manometer and hoses. This test equipment is designed to enable flanges to be tested on a one- off basis with out pressurizing entire system.

The KaMOS® gasket may be used several times in installations by getting new sealing material on the metallic core.



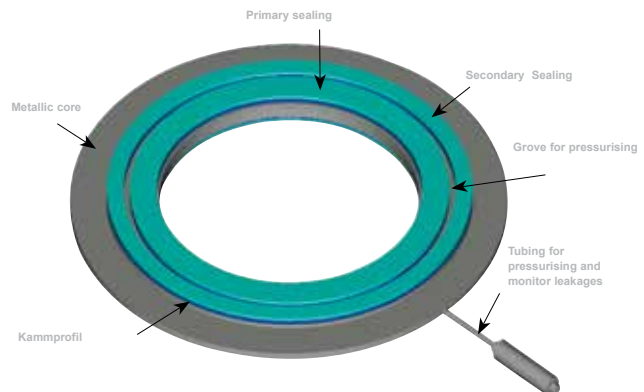
KaMOS® PATENTED INTELLIGENT KAMMPROFIL GASKET FOR ANSI B16.5 RF FLANGES MEET REQUIREMENTS GIVEN IN ASME B16.20 / B16.47 Series A or B

KaMOS® Patented Intelligent gasket gives the opportunity to leak test the flanged connection directly after the flanges are mounted, and also monitor eventual leakages while pipe system is running

KaMOS® Patented Kammprofil gasket materials should always be selected with regard to chemical compatibility and temperature / pressure conditions

Metallic core	Facing materials
Stainless steel grade Carbon steel, Zinc electroplating with yellow chroming	Graphite PTFE

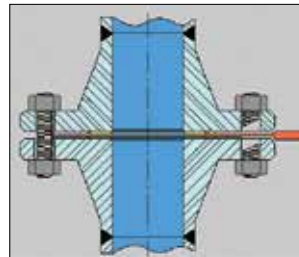
* KaMOS® can deliver other materials on request



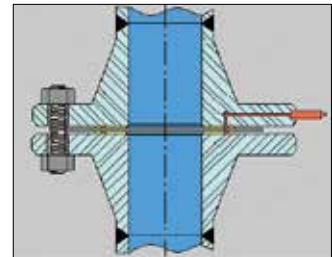
2.3.1 KaMOS® Leaktest Solutions for Kammprofil Gaskets

The advantages by using KaMOS® RF & FF Gasket:

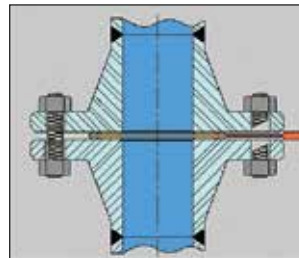
- The flange is tested for leaks before the process pressure is applied.
- Flanges that would not otherwise be leak or pressure tested (such as blind flanges to isolate spools) can be tested.
- Time of testing is significantly reduced, resulting in less downtime due to leak testing.
- KaMOS® Test Equipment is easy to use.
- Volumes of nitrogen required for testing are minimal, so large quantities of nitrogen and helium will be saved compared to conventional leak testing.
- The KaMOS® test method can also be used for continuous monitoring of seals by equipping the annular space with an indicator of gas pressure.
- The pressurization line can be used to feed in liquid sealant in case of emergency.



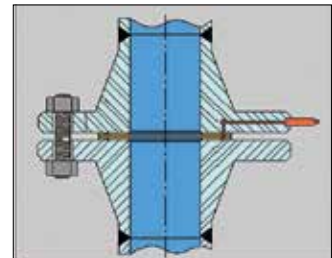
Style FS 150 – 2500 lb – 7,5 mm thk



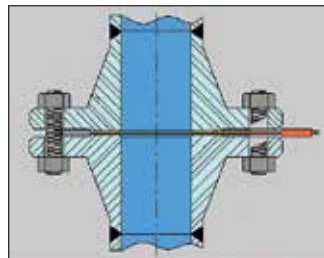
Style FS 150 – 2500 lb – 7,5 mm thk



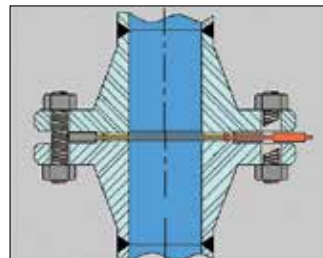
Style FU 150 – 2500 lb – 7,5 mm thk



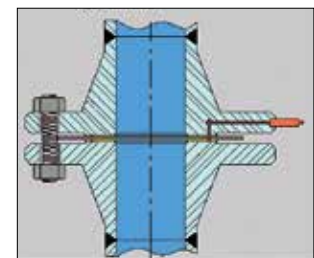
Style FU 150 – 2500 lb – 7,5 mm thk



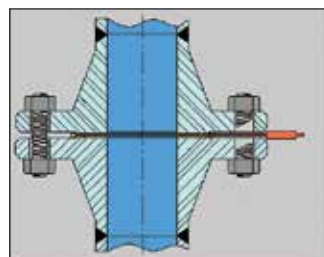
Style RS 150 – 300 lb – 6,5 mm thk



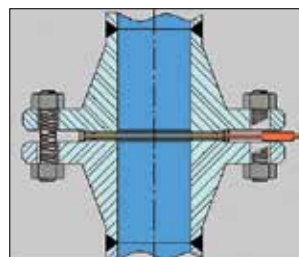
Style RS 400 – 2500 lb – 4,5 mm thk



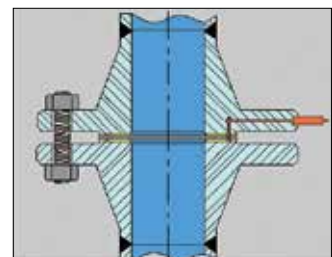
Style RS 150 – 2500 lb – 6,5 mm thk



Style RU 150 – 300 lb – 6,5 mm thk



Style RU 400 – 2500 lb – 4,5 mm thk



Style RU 400 – 2500 lb – 4,5 mm thk

RS - Raised face with guide ring
RU - Raised Face without guide ring

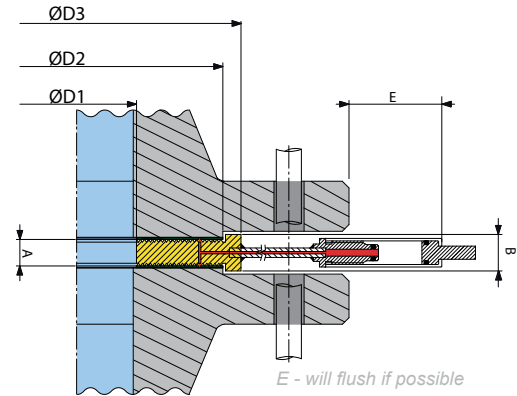
FS - Flat face with guide ring
FU - Flat face without guide ring

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2.4 Technical Info – RF & FF Kammprofil Gasket

2.4.1 KaMOS® Kammprofil Gasket – Style RU

KaMOS® Gasket: Style RU - Raised face without guide ring



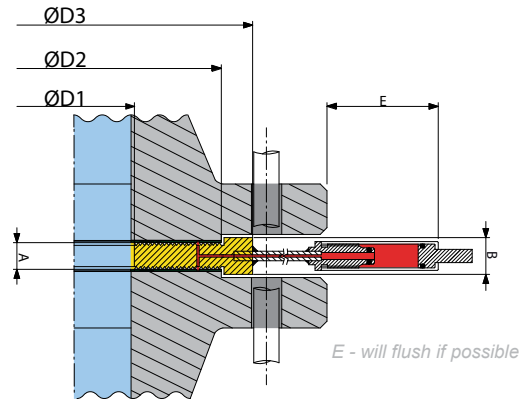
Nominal sizes				Nominal pressure lbs						
ANSI	ISO			150	300	400	600	900	1500	2500
inches	DN	D1	D2	D3	D3	D3	D3	D3	D3	D3
1	25	33,3	50,8	63,5	63,5	63,5	63,5	63,5	63,5	63,5
1 1/4	-	42,1	63,5	68,5	68,5	68,5	68,5	68,5	68,5	68,5
1 1/2	40	48,5	73,0	82,8	82,8	82,8	82,8	82,8	82,8	82,8
2	50	60,5	92,1	101,6	101,6	101,6	101,6	101,6	101,6	101,6
2 1/2	65	71,9	104,8	120,9	120,9	120,9	120,9	120,9	120,9	120,9
3	80	88,9	127,0	133,6	133,6	133,6	133,6	133,6	133,6	133,6
3 1/2	-	101,6	139,7	144,7	144,7	144,7	144,7	-	-	-
4	100	114,3	157,2	171,7	171,7	171,7	171,7	171,7	171,7	171,7
5	125	141,2	185,7	193,7	193,7	193,7	193,7	193,7	193,7	193,7
6	150	168,1	215,9	219,1	219,1	219,1	219,1	219,1	219,1	219,1
8	200	218,9	269,9	276,4	276,4	276,4	276,4	276,4	276,4	276,4
10	250	273,0	323,8	336,8	336,8	336,8	336,8	336,8	336,8	336,8
12	300	323,8	381,0	390,0	390,0	390,0	390,0	390,0	390,0	390,0
14	350	355,6	412,7	421,7	421,7	421,7	421,7	421,7	421,7	-
16	400	406,4	469,9	478,9	478,9	478,9	478,9	478,9	478,9	-
18	450	457,2	533,4	542,4	542,4	542,4	542,4	542,4	542,4	-
20	500	508,0	584,2	593,2	593,2	593,2	593,2	593,2	593,2	-
24	600	610,0	692,1	701,1	701,1	701,1	701,1	701,1	701,1	-
Other sizes on request Dimensions in mm				A= 6,5mm B= 7,3mm			A= 4,5mm B= 8,0mm			

For 150 lb & 300 lb, RF and RU KaMOS® Kammprofil Gaskets, the entire KaMOS® Indicator/Blind Plug is mounted on the outside of the flange

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2.4.2 KaMOS® Kammprofil Gasket – Style RS

KaMOS® Gasket: Style RS - Raised face with guide ring



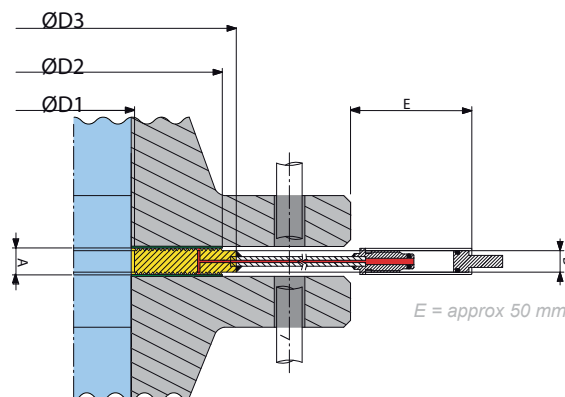
Nominal sizes		Nominal pressure lbs								
ANSI	ISO	D1	D2	150	300	400	600	900	1500	2500
inches	DN			D3	D3	D3	D3	D3	D3	D3
1	25	33,3	50,8	66,0	66,0	69,8	69,8	76,2	76,2	82,5
1 1/4	-	42,1	63,5	72,9	79,4	79,4	79,4	85,7	85,7	101,6
1 1/2	40	48,5	73,0	82,5	92,1	92,1	92,1	95,2	95,2	114,3
2	50	60,5	92,1	104,0	108,0	108,0	108,0	139,7	139,7	142,8
2 1/2	65	71,9	104,8	120,6	127,0	127,0	127,0	161,9	161,9	165,1
3	80	88,9	127,0	136,0	146,1	146,1	146,1	165,1	171,5	193,7
3 1/2	-	101,6	139,7	158,8	161,9	158,7	158,7	-	-	-
4	100	114,3	157,2	171,5	177,8	174,6	190,5	203,2	206,4	231,7
5	125	141,2	185,7	193,7	212,7	209,5	238,1	244,5	250,8	276,2
6	150	168,1	215,9	222,0	247,7	244,5	263,5	285,8	279,4	314,3
8	200	218,9	269,9	279,0	304,8	301,6	317,5	355,6	349,3	384,1
10	250	273,0	323,8	339,0	358,6	355,6	396,9	431,8	431,8	473,0
12	300	323,8	381,0	406,4	419,1	419,9	454,0	495,3	517,5	546,1
14	350	355,6	412,7	447,7	482,6	479,4	488,9	517,5	574,7	-
16	400	406,4	469,9	511,2	536,6	533,4	561,9	571,5	638,1	-
18	450	457,2	533,4	546,1	593,7	590,5	609,6	635,0	701,7	-
20	500	508,0	584,2	603,0	650,9	644,5	679,5	695,3	752,4	-
24	600	610,0	692,1	714,4	771,5	765,2	787,4	835,0	898,5	-
Other sizes on request Dimensions in mm				A= 6,5mm B= 7,3mm			A= 4,5mm B= 8,0mm			

For 150 lb & 300 lb, RF and RU KaMOS® Kammprofil Gaskets, the entire KaMOS® Indicator/Blind Plug is mounted on the outside of the flange

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2.4.3 KaMOS® Kammprofil Gasket – Style FU

KaMOS® Gasket: Style FU - Flat face without guide ring



Nominal sizes		Nominal pressure lbs								
ANSI	ISO	D1	D2	150	300	400	600	900	1500	2500
inches	DN			D3	D3	D3	D3	D3	D3	D3
1	25	33,3	50,8	55,8	55,8	55,8	55,8	55,8	55,8	55,8
1 1/4	-	42,1	63,5	68,5	68,5	68,5	68,5	68,5	68,5	68,5
1 1/2	40	48,5	73,0	78,0	78,0	78,0	78,0	78,0	78,0	78,0
2	50	60,5	92,1	97,1	97,1	97,1	97,1	97,1	97,1	97,1
2 1/2	65	71,9	104,8	109,8	109,8	109,8	109,8	109,8	109,8	109,8
3	80	88,9	127,0	132,0	132,0	132,0	132,0	132,0	132,0	132,0
3 1/2	-	101,6	139,7	144,7	144,7	144,7	144,7	144,7	144,7	144,7
4	100	114,3	157,2	162,2	162,2	162,2	162,2	162,2	162,2	162,2
5	125	141,2	185,7	190,7	190,7	190,7	190,7	190,7	190,7	190,7
6	150	168,1	215,9	220,9	220,9	220,9	220,9	220,9	220,9	220,9
8	200	218,9	269,9	274,9	274,9	274,9	274,9	274,9	274,9	274,9
10	250	273,0	323,8	328,8	328,8	328,8	328,8	328,8	328,8	328,8
12	300	323,8	381,0	386,0	386,0	386,0	386,0	386,0	386,0	386,0
14	350	355,6	412,7	417,7	417,7	417,7	417,7	417,7	417,7	417,7
16	400	406,4	469,9	474,9	474,9	474,9	474,9	474,9	474,9	474,9
18	450	457,2	533,4	538,4	538,4	538,4	538,4	538,4	538,4	538,4
20	500	508,0	584,2	589,2	589,2	589,2	589,2	589,2	589,2	589,2
24	600	610,0	692,1	697,1	697,1	697,1	697,1	697,1	697,1	697,1

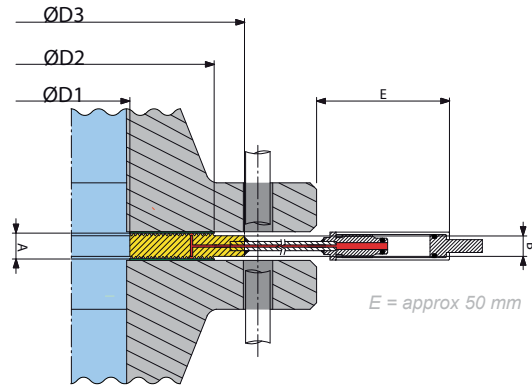
Other sizes on request A= 7,5 mm
 Dimensions in mm B= 6,5 mm

**For FU & FS KaMOS® Kammprofil Gaskets
 the entire KaMOS® Indicator/Blind Plug is mounted on the outside of the flange**

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2.4.4 KaMOS® Kammprofil Gasket – Style FS

KaMOS® Gasket: Style FS - Flat face with guide ring



Nominal sizes		Nominal pressure lbs								
ANSI	ISO	D1	D2	150	300	400	600	900	1500	2500
inches	DN			D3	D3	D3	D3	D3	D3	D3
1	25	33,3	50,8	66,0	66,0	69,8	69,8	76,2	76,2	82,5
1 1/4	-	42,1	63,5	72,9	79,4	79,4	79,4	85,7	85,7	101,6
1 1/2	40	48,5	73,0	82,5	92,1	92,1	92,1	95,2	95,2	114,3
2	50	60,5	92,1	104,0	108,0	108,0	108,0	139,7	139,7	142,8
2 1/2	65	71,9	104,8	120,6	127,0	127,0	127,0	161,9	161,9	165,1
3	80	88,9	127,0	136,0	146,1	146,1	146,1	165,1	171,5	193,7
3 1/2	-	101,6	139,7	158,8	161,9	158,7	158,7	-	-	-
4	100	114,3	157,2	177,8	177,8	174,6	190,5	203,2	206,4	231,7
5	125	141,2	185,7	193,7	212,7	209,5	238,1	244,5	250,8	276,2
6	150	168,1	215,9	222,0	247,7	244,5	263,5	285,8	279,4	314,3
8	200	218,9	269,9	279,0	304,8	301,6	317,5	355,6	349,3	384,1
10	250	273,0	323,8	339,0	358,6	355,6	396,9	431,8	431,8	473,0
12	300	323,8	381,0	406,4	419,1	419,9	454,0	495,3	517,5	546,1
14	350	355,6	412,7	447,7	482,6	479,4	488,9	517,5	574,7	-
16	400	406,4	469,9	511,2	536,6	533,4	561,9	571,5	638,1	-
18	450	457,2	533,4	546,1	593,7	590,5	609,6	635,0	701,7	-
20	500	508,0	584,2	603,0	650,9	644,5	679,5	695,3	752,4	-
24	600	610,0	692,1	714,4	702,0	765,2	787,4	835,0	898,5	-

Other sizes on request A= 7,5 mm
Dimensions in mm B= 6,5 mm

**For FU & FS KaMOS® Kammprofil Gaskets
the entire KaMOS® Indicator/Blind Plug is mounted on the outside of the flange**

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