

4 Function Ex d/e Glands

ORION



Technical Details			
Material	Body, Cap	Brass, Brass Nickel Plated, Stainless Steel, Galvanised Steel	
	Inner Part	Brass, Brass Nickel Plated, Stainless Steel, Galvanised Steel	
	Seal	CR (Chloroprene Rubber), Silicone	
Protection Class	IP 68 - 5 Bar, 30 min IP 66		
Operating Temperature	Seal Material		
		CR (Chloroprene Rubber)	Silicone
		-40°C / +100°C	-60°C / +130°C
	LT Version	-40°C / +80°C	-60°C / +80°C
Equipment For	Gas & Dust potentially explosive atmospheres		
Suitable for use in	Group II	Gas Group IIC	ZONE1/ZONE2
	Group III	Dust Group IIIC	ZONE21/ZONE 22
Equipment Marking	Ex II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db		
Marking Example	BMD KBA.. Ex CE 0722 II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db Ta-40°C +100°C IP66/68 IECEx CES 13.0013X / CESI 13 ATEX 033X		
Thread Type	• Metric (M) ISO Pitch 1,5 • NPT (N) ANSI ASME B1.20.1 • Other thread types also available upon request.		
Cable Type	SWA - AWA		
Accessories	• Lock nuts • Gaskets • Serrated Washers • Shrouds • Earth tags		

Approvals		
	Certificate Number	Standards
	CESI 13 ATEX 033X	EN 60079-0:2012 EN 60079-1:2014 EN 60079-7:2007 EN 60079-31:2009
	IECEx CES 13.0013X	IEC 60079-0:2011 Edition:6 IEC 60079-1:2014 Edition:7 IEC 60079-31:2008 Edition:1 IEC 60079-7:2006-07 Edition:4
	20150612-E474828	UL 2225, CAN/CSA-C22.2 No. 60079-0:11 CAN/CSA C22.2 No. 60079-7:12 CAN/CSA-C22.2 No. 60079-31:12
	Nº TC RU C- TR.Г505.В.00840	ГОСТ IEC 60079-1:2011 ГОСТ P MЭК 60079-0:2011 ГОСТ P MЭК 60079-7:2012 ГОСТ P MЭК 60079-31:2010 ГОСТ P MЭК 60079-14:2008
	DNV 12.0053 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008, ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444
	MASC MS/15-0240X	SANS (IEC) 60079-0 : 2011 SANS (IEC) 60079-1 : 2009 SANS (IEC) 60079-7 : 2007 SANS (IEC) 60079-31 : 2009

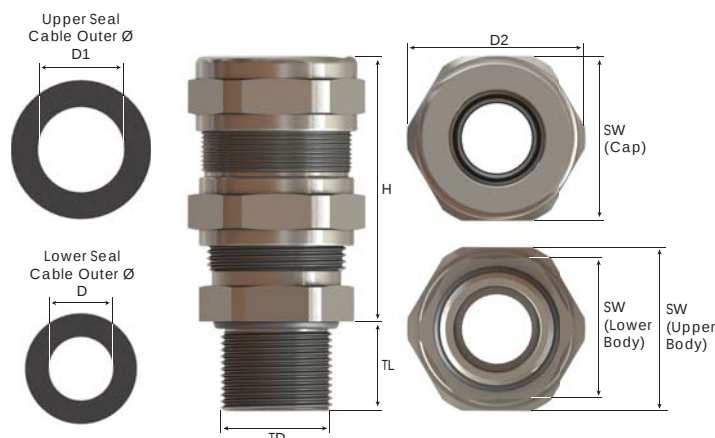
For more information see our webpage.

Order Encoding											
Part Number	Size	•M: Metric •N: NPT •C: PF •P: PG •G: Gas Thread	for Lower Temperature	•B: Brass •X: Stainless steel •BN: Nickel Plated •Z: Galvanised Material	•C: Chloroprene •S: Silicone Seal		•GC: Chloroprene •GS: Silicone •GF: Fiber Gasket	Serrated Washer	Lock Nut	Shroud	Earth Tag
KBA	5	N	LT	B	C	-	GC	SW	L	S	E
LT*: For temperature information, please see technical details.											

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Hazardous Application

Thread Type METRIC acc. to ISO 965-3													
Size	Clamping Range Ø min-max		Armour Wire Ø mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width			Outer min. Ø D2 mm	max. Height H mm	Part Number		
	D mm	D1 mm				SW Cap mm	SW Upper Body mm	SW Lower Body mm					
M16x1.5	3,0 - 8,5	6,0 - 12,0	1,2	16,0	16,0	22,0	26,0	26,0	29,0	47,5	KBA01SM		
	6,0 - 12,0	8,5 - 16,0				25,0	29,0	29,0	31,5	50,0	KBA01M		
M20x1.5	3,0 - 8,5	6,0 - 12,0	1,2	16,0	20,0	24,0	26,0	26,0	29,0	47,5	KBA1SM		
	6,0 - 12,0	8,5 - 16,0	1,3			25,0	29,0	29,0	31,5	49,0	KBA1M		
	8,5 - 14,5	12,0 - 20,0				28,0	30,0	32,0	35,0	56,4	KBA1MLT*		
	12,0 - 14,5	16,0 - 20,0								52,0	KBA1LM		
M25x1.5	3,0 - 8,5	6,0 - 12,0	1,2	16,0	25,0	29,0	26,0	26,0	29,0	47,5	KBA2XSM		
	6,0 - 12,0	8,5 - 16,0		18,0		29,0	29,0	29,0	31,5	50,5	KBA2SM		
	8,5 - 14,5	12,0 - 16,0	1,3	16,0		29,0	30,0	32,0	35,0	56,4	KBA2XMMLT*		
	12,0 - 16,0	16,0 - 21,0		18,0		32,0	34,0	34,0	37,0	54,5	KBA2M		
	8,5 - 16,0	12,0 - 21,0								59,5	KBA2MLT*		
	12,0 - 20,0	16,0 - 26,0								60,5	KBA2LM		
	M32x1.5	6,0 - 12,0	8,5 - 16,0	1,6	18,0	32,0	36,0	29,0	29,0	31,5	50,5	KBA3XSM	
		12,0 - 20,0	16,0 - 26,0	1,2			40,0	40,0	40,0	44,0	62,0	KBA3SM	
8,5 - 16,0		12,0 - 21,0	1,3	36,0			34,0	34,0	37,0	59,5	KBA3XMMLT*		
15,0 - 26,0		20,0 - 33,0	1,6	48,0			52,0	52,0	57,0	78,5	KBA3M		
12,0 - 20,0		16,0 - 26,0	1,6	45,0			40,0	40,0	44,0	62,0	KBA4XSM		
M40x1.5	15,0 - 26,0	20,0 - 33,0	1,8	18,0	40,0	48,0	52,0	52,0	57,0	78,5	KBA4SM		
	20,0 - 32,0	29,0 - 41,0	1,6			55,0	60,0	60,0	66,0	89,5	KBA4M		
	15,0 - 26,0	20,0 - 33,0	1,8			18,0	50,0	54,0	52,0	52,0	57,0	78,4	KBA5XSM
	20,0 - 32,0	29,0 - 41,0	2,2					55,0	60,0	60,0	66,0	89,9	KBA5XMM
22,0 - 35,0	33,0 - 48,0	1,8	60,0	70,0	75,0			82,0	96,5	KBA5SM			
M63x1.5	27,0 - 41,0	36,0 - 52,0	2,2		18,0	63,0	70,0	74,0	74,0	83,0	100,0	KBA5M	
	22,0 - 35,0	33,0 - 48,0		68,0			75,0		82,0	96,5	KBA6XSM		
	27,0 - 41,0	36,0 - 52,0		70,0			70,0	74,0	83,0	100,0	KBA6XMM		
	35,0 - 45,0	43,0 - 57,0		75,0				80,0	80,0	89,5	106,0	KBA6SM	
	40,0 - 52,0	47,0 - 60,0		85,0			85,0	85,0	94,0	108,0	KBA6M		
	35,0 - 45,0	43,0 - 57,0		20,0			80,0	80,0	80,0	89,5	106,0	KBA7XSM	
M75x1.5	40,0 - 52,0	47,0 - 60,0	3,0		20,0	75,0	85,0	85,0	85,0	94,0	108,0	KBA7SM	
	45,0 - 60,0	54,0 - 70,0					90,0						95,0
	M90x1.5	40,0 - 52,0		47,0 - 60,0			3,0	20,0	90,0	100,0	85,0	85,0	94,0
45,0 - 60,0		54,0 - 70,0	95,0	95,0	100,0	110,5				124,0	KBA8SM		
60,0 - 72,0		63,0 - 80,0	110,0	115,0	115,0	127,0				154,0	KBA8M		
M110x1.5		45,0 - 60,0	54,0 - 70,0	3,0	20,0	110,0				120,0	95,0	100,0	110,5
	60.072,0	63,0 - 80,0	3,5	115,0			115,0	127,0	154,0	KBA10M			

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Cable Type	SWA - AWA		
Accessories	• Lock nuts • Gaskets • Serrated Washers • Shrouds • Earth tags		

Approvals		
	Certificate Number	Standards
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	DNV 12.0053 X	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2009, ABNT NBR IEC 60079-7:2008, ABNT NBR IEC 60079-31:2011
	E-14044	IEC/EN60079-0, IEC/EN60079-7, IEC/EN60079-31 IEC/EN60079-1, IEC/EN 62444
	MASC MS/15-0240X	SANS (IEC) 60079-0 : 2011 SANS (IEC) 60079-1 : 2009 SANS (IEC) 60079-7 : 2007 SANS (IEC) 60079-31 : 2009

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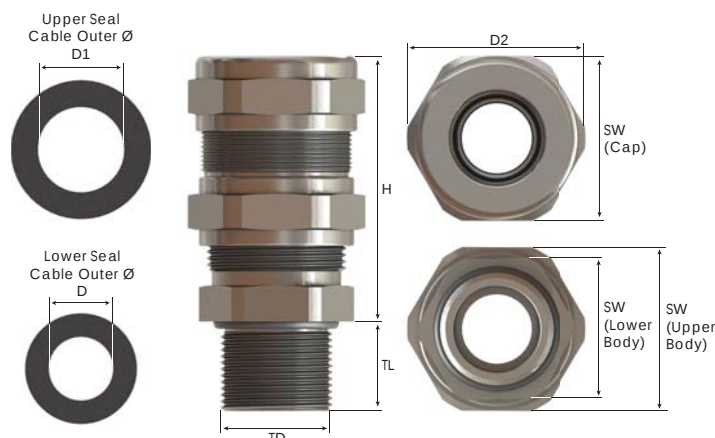
Order Encoding											
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KBA	5	N	LT	B	C	-	GC	SW	L	S	E

LT*: For temperature information, please see technical details.

LT*: For temperature information, please see technical details.

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Thread Type NPT acc. to ANSI ASME B1.20.1

Size	Clamping Range Ø min-max		Armour Wire Ø mm	Thread Length TL mm	Thread Ø TD mm	Spanner Width			Outer min. Ø D2 mm	max. Height H mm	Part Number	
	D mm	D1 mm				SW Cap mm	SW Upper Body mm	SW Lower Body mm				
NPT 3/8"	3,0 - 8,5	6,0 - 12,0	1,2	16,0	17,1	22,0	26,0	26,0	29,0	47,5	KBA01SN	
	6,0 - 12,0	8,5 - 16,0				25,0	29,0	29,0	31,5	50,0	KBA01N	
NPT 1/2"	3,0 - 8,5	6,0 - 12,0	1,2	16,0	21,3	24,0	26,0	26,0	29,0	47,5	KBA1SN	
	6,0 - 12,0	8,5 - 16,0				25,0	29,0	29,0	31,5	49,0	KBA1N	
	8,5 - 14,5	12,0 - 20,0				28,0	30,0	32,0	35,0	56,4	KBA1NLT*	
	12,0 - 14,5	16,0 - 20,0								52,0	KBA1LN	
NPT 3/4"	3,0 - 8,5	6,0 - 12,0	1,2	16,0	26,7	29,0	26,0	26,0	29,0	47,5	KBA2XSN	
	6,0 - 12,0	8,5 - 16,0		18,0			29,0	29,0	31,5	50,5	KBA2SN	
	8,5 - 14,5	12,0 - 20,0	1,6	16,0			30,0	32,0	35,0	56,4	KBA2XMNLT*	
	8,5 - 16,0	12,0 - 21,0	1,2	18,0			34,0	34,0	37,0	59,5	KBA2NLT*	
	12,0 - 16,0	16,0 - 21,0							54,5	KBA2N		
	12,0 - 20,0	16,0 - 26,0	1,6	16,0			36,0	40,0	40,0	44,0	60,5	KBA2LN
NPT 1"	6,0 - 12,0	8,5 - 16,0	1,6	21,0	33,4	36,0	29,0	29,0	31,5	50,5	KBA3XSN	
	12,0 - 20,0	16,0 - 26,0				40,0	40,0	40,0	44,0	62,0	KBA3SN	
	8,5 - 16,0	12,0 - 21,0	1,8			36,0	34,0	34,0	37,0	59,5	KBA3XMNLT*	
	15,0 - 26,0	20,0 - 33,0				48,0	52,0	52,0	57,0	78,5	KBA3N	
	12,0 - 20,0	16,0 - 26,0				45,0	40,0	40,0	44,0	62,0	KBA4XSN	
NPT 1 1/4"	15,0 - 26,0	20,0 - 33,0	1,8	21,0	42,1	48,0	52,0	52,0	57,0	78,5	KBA4SN	
	20,0 - 32,0	29,0 - 41,0	2,2	18,0		55,0	60,0	60,0	66,0	89,5	KBA4N	
NPT 1 1/2"	15,0 - 26,0	20,0 - 33,0	2,2	21,0	48,2	54,0	52,0	52,0	57,0	78,4	KBA5XSN	
	20,0 - 32,0	29,0 - 41,0				55,0	60,0	60,0	66,0	88,7	KBA5XMN	
	22,0 - 35,0	33,0 - 48,0	2,7			60,0	70,0	75,0	82,0	96,5	KBA5SN	
	27,0 - 41,0	36,0 - 52,0				70,0		74,0	83,0	100,0	KBA5N	
	22,0 - 35,0	33,0 - 48,0				2,7	21,0	68,0	70,0	75,0	82,0	96,5
NPT 2"	27,0 - 41,0	36,0 - 52,0	3,0	20,0	60,3	70,0		74,0	83,0	100,0	KBA6XMN	
	35,0 - 45,0	43,0 - 57,0		3,5		20,0	75,0	80,0	80,0	89,5	106,0	KBA6SN
	40,0 - 52,0	47,0 - 60,0		3,0		21,0	85,0	85,0	85,0	94,0	108,0	KBA6N
NPT 2 1/2"	35,0 - 45,0	43,0 - 57,0	3,0	21,0	73,0	80,0	80,0	80,0	89,5	105,5	KBA7XSN	
	40,0 - 52,0	47,0 - 60,0		85,0		85,0	85,0	94,0	108,0	KBA7SN		
	45,0 - 60,0	54,0 - 70,0		90,0		95,0	100,0	110,5	125,0	KBA7N		
NPT 3"	40,0 - 52,0	47,0 - 60,0	3,0	21,0	88,9	95,0	85,0	85,0	94,0	108,0	KBA8XSN	
	45,0 - 60,0	54,0 - 70,0					95,0	100,0	110,5	124,0	KBA8SN	
	60,0 - 72,0	63,0 - 80,0					3,5	110,0	115,0	115,0	127,0	154,0
NPT 3 1/2"	45,0 - 60,0	54,0 - 70,0	3,5	21,0	101,6	110,0	95,0	100,0	110,5	124,0	KBA9SN	
	60,0 - 72,0	63,0 - 80,0					115,0	115,0	127,0	154,0	KBA9N	