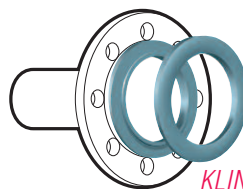


# KLINGER® KGS/VD

## The first infinitely adjustable seal



*The two-part adjustable seal,  
registered for patent approval,  
compensates for obliquely positioned flanges  
up to approx. 8°.  
Ideal for piping construction,  
simple to install and economically priced.*

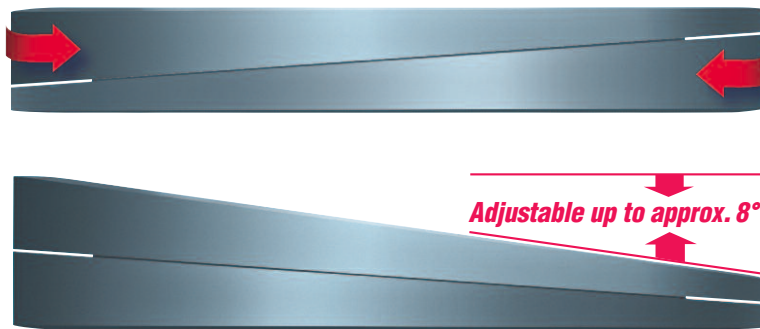
*KLINGER – The worldwide leader in seal technology*



# KLINGER® KGS/VD

## The first adjustable seal

The variable seal consists of two interlocking parts connected through a tongue and groove joint. This allows the two wedge-shaped parts to be turned against each other up to an angle of approx. 8°. After installation, these two parts form a "medium-tight" bond.



### **Registered for patent approval**

*This special design, registered for patent approval, allows the new seal to act as simple and economic sealing for obliquely positioned flanges. Elaborate and thus expensive structural measures can thereby be avoided.*

*Oblique positions can be infinitely aligned up to approx. 8°, vertically or horizontally.*

### **Simple application for obliquely positioned flanges**

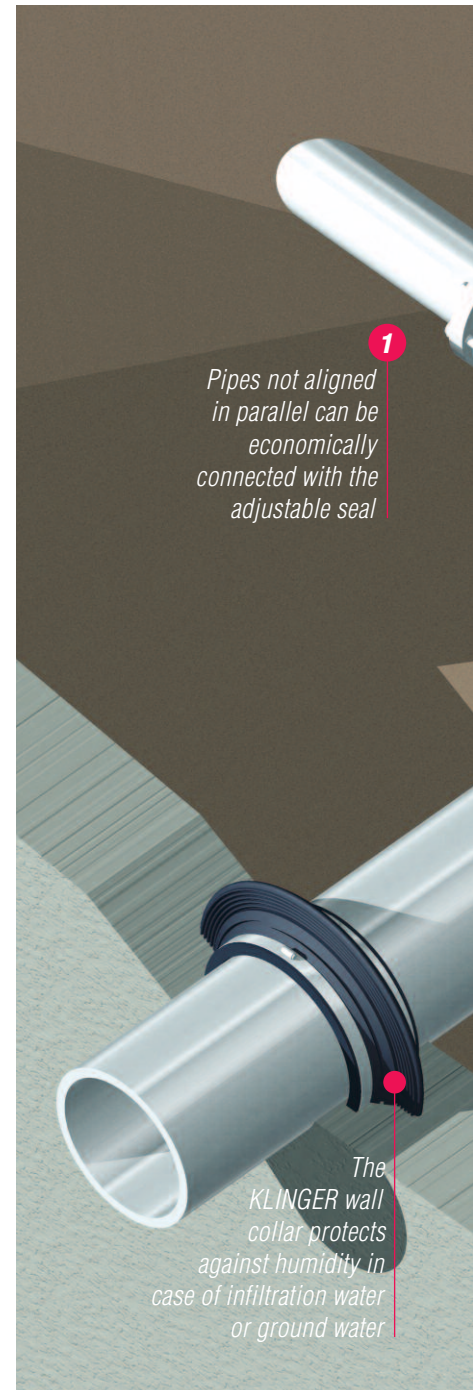
*Oblique positions occur with all flange connections. Especially underground pipes with regulating wedges and flanges, e.g. for hydrants and fittings, cannot always be routed in a straight line.*

### **No wedge disks and additional seals**

*The new adjustable seal replaces, simply and very economically, the steel or cast iron wedge disks frequently used so far. These heavy wedge disks, elaborately installed, even require two additional seals.*

*The result:  
Inexact assembly and higher costs.  
Complicated handling of these metal elements in tight spaces produces uncertainty during the installation and increases the risk of leaks.*

**KLINGER® KGS/VD:  
Simple but highly economic**



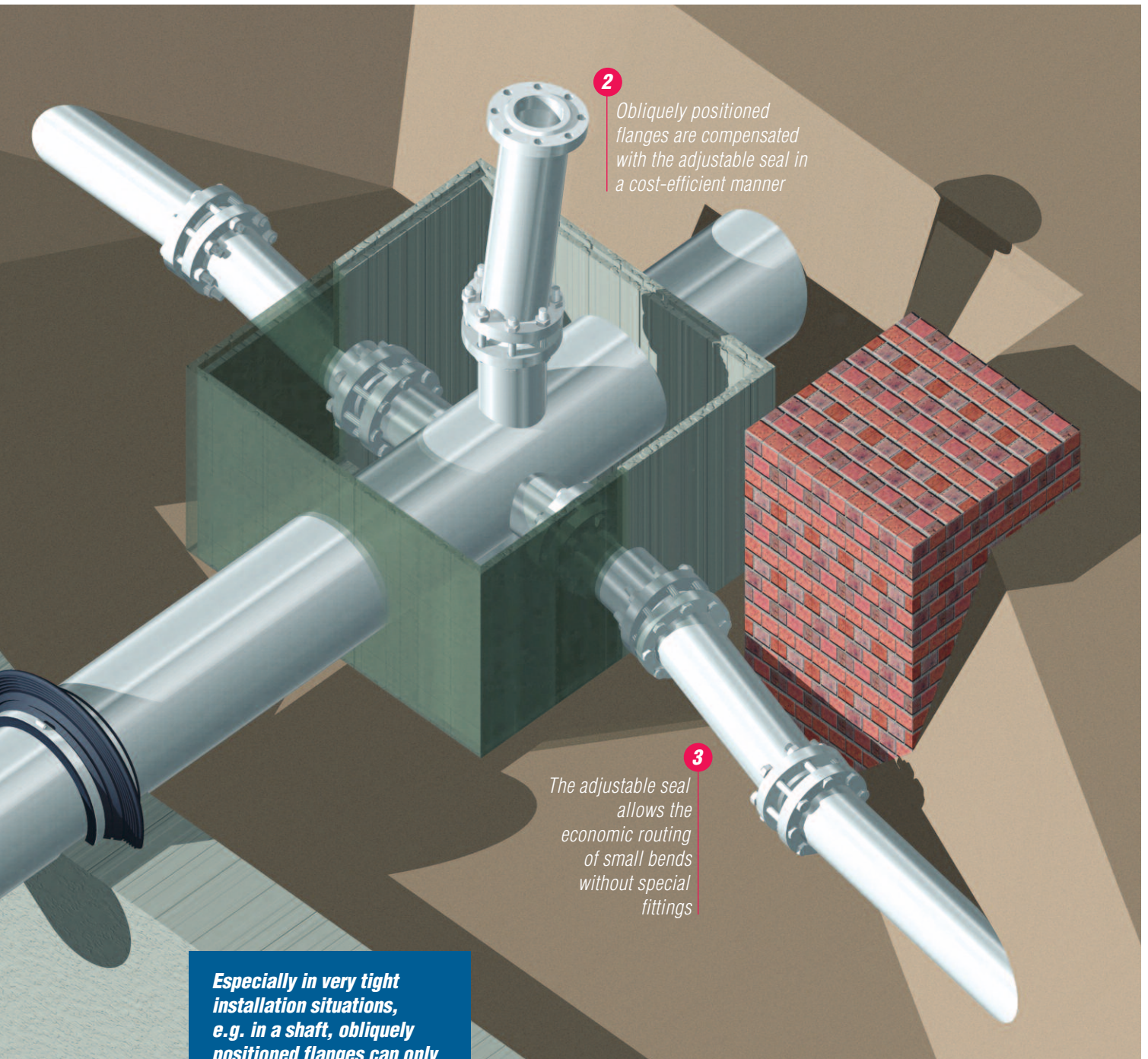
*1  
Pipes not aligned in parallel can be economically connected with the adjustable seal*

*The KLINGER wall collar protects against humidity in case of infiltration water or ground water*



# KLINGER® KGS/VD

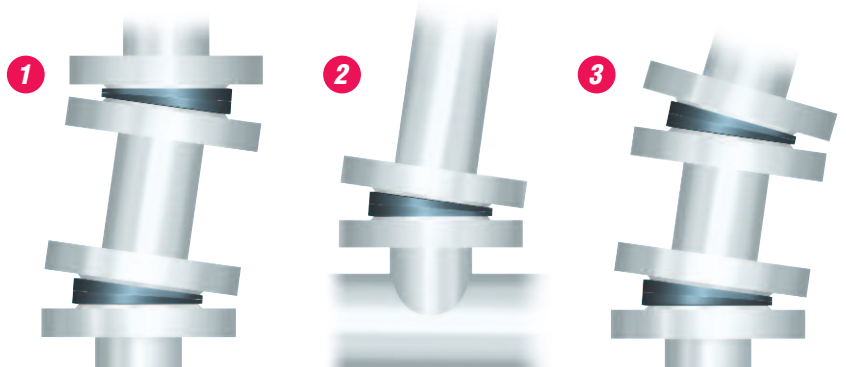
## The first adjustable seal



**2** Obliquely positioned flanges are compensated with the adjustable seal in a cost-efficient manner

**3** The adjustable seal allows the economic routing of small bends without special fittings

***Especially in very tight installation situations, e.g. in a shaft, obliquely positioned flanges can only be corrected without elaborate wedge disks and additional sealing with the adjustable seal, and that in a cost-efficient manner.***



### Dimensions

#### according to DIN EN 1514-1

The adjustable seal Type KGS/VD is currently available from DN 32 to DN 500, additional dimensions available upon request.

### Elastomer

EPDM as standard, other materials upon request.

\* mm

\*\*\* approximate

Dimensions				Bolt		Material weight		
DN	PN	thickness*		length*	size	gram***		
		min.	max.			EPDM	Viton	Silicone
32	10 - 40	9	20	90	M 14	110	120	100
40	10 - 40	9	22	90	M 14	140	160	120
50	10 - 40	9	24	100	M 14	180	210	170
65	10 - 40	9	26	100	M 14	330	400	310
80	10 - 40	14	30	100	M 14	330	500	380
100	10 - 16	14	33	100	M 14	370	550	420
100	25 - 40	14	33	110	M 18	420	630	480
125	10 - 16	14	33	110	M 18	500	750	590
150	10 - 16	14	39	110	M 18	580	890	680
150	25 - 40	14	39	130	M 22	680	1000	800
200	10 - 16	15	50	120	M 18	920	1410	1060
200	40	15	50	160	M 24	1340	1750	1500
250	10	16	59	140	M 18	1260	1850	1400
250	40	16	59	170	M 27	2000	3050	2310
300	10	22	68	150	M 18	1950	3080	2320
350	10	22	68	150	M 18	3510	5340	4020
400	10	22	74	160	M 22	4100	6430	4820
500	10	23	79	180	M 22	5400	8350	6340

### Dimensions

#### according to ANSI, B16.21

The adjustable seal Type KGS/VD is currently available from 3" to 16", additional dimensions available upon request.

### Elastomer

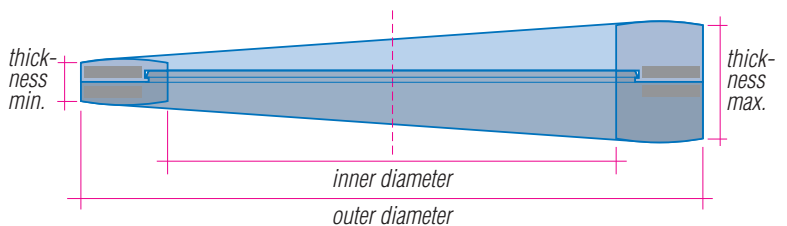
EPDM as standard, other materials upon request.

\* mm

\*\* inch

\*\*\* approximate

Dimensions					Bolt		Material weight		
inch	class	thickness*		in x out Ø*	length*	size**	gram***		
		min.	max.				EPDM	Viton	Silicone
3	150	14	30	89 x 133	100	½	170	260	200
4	150	14	33	115 x 171	100	½	270	410	310
6	150	14	39	168 x 219	110	⅝	460	710	535
8	150	15	50	219 x 276	130	⅝	750	1160	870
10	150	16	58	273 x 337	140	¾	1200	1710	1270
12	150	22	68	325 x 406	150	¾	2300	3550	2680
16	150	22	74	406 x 512	160	⅞	4050	6350	4760



The standard material of the adjustable seal Type KGS/VD is EPDM. However, depending on the applications, it can also be produced of other elastomeres, such as FKM (Viton) or Silicone.