


PN 10/16 - DN 80...1200

KAT-A 5014-nf-E

Product characteristics and benefits

- With flange ends on both sides acc. to EN 1092-2
- Axially and angle adjustable
- For easy installation and dismantling of valves
- One piece stainless steel multilayer bellow
- Easy assembly/disassembly due to the elasticity of the pre-stress bellow
- Maintenance free

Materials

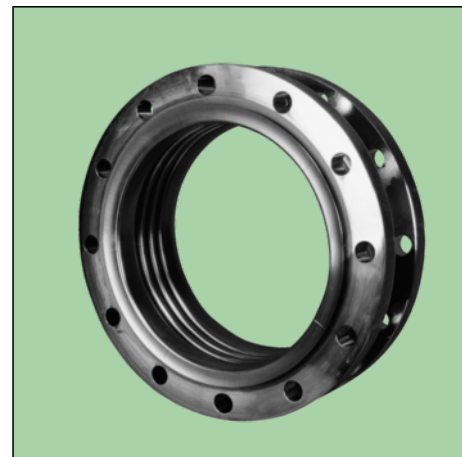
- Bellow: Stainless steel 1.4571
- Flanges: Stainless steel 1.4541
- Threaded anchor bolts: Stainless steel 1.4541

Versions

- Standard version as described
- For buried installation with protective jacket of stainless steel 1.4541
- Bigger sizes available on request
- Special designs available on request
- Other pressure ratings available on request
- Internal conduit of stainless steel 1.4541 to reduce friction loss and vibration

Field of Application

- Underground installation
- Chamber installation
- Installation in plants


Note

We recommend the use of the internal guide sleeves, if

- the medium can be expected to generate high-frequency vibrations and/or turbulence
- DN > 150 when the following flow velocities are exceeded: gaseous: 8 m/s
- liquid: 3.5 m/s

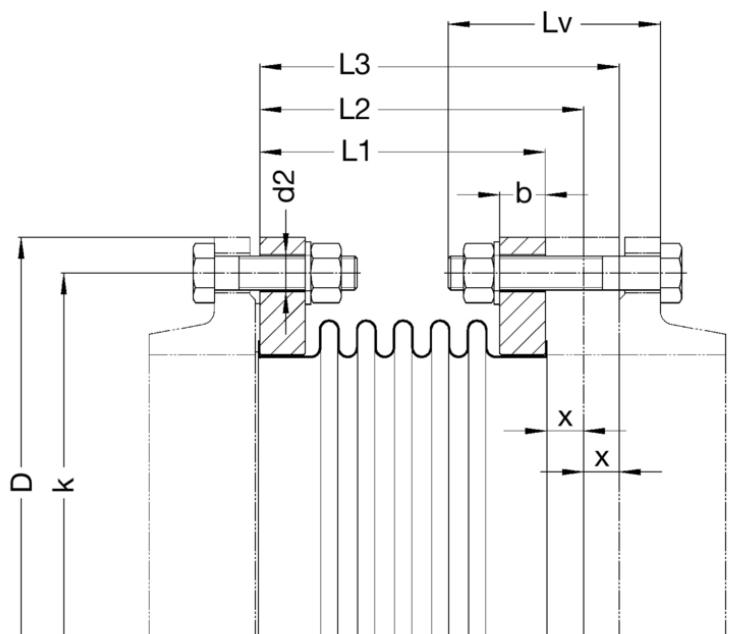
For proper installation and safe operation please follow the installation and operation instructions:
 "Installation and Operating Instructions for Valves"

Field of application

DN	PN	Maximum operating pressure [bar]	Maximum operating temperature for neutral liquids [°C]
80...1200	16	16	200
80...1200	10	10	200



Drawing



L1: Delivery length
L2: Length of installation
L3: Max. face-to-face length
Lv: Usual bolt length for the flange connection + 50 mm
D: Outer diameter of flange
k: Bolt-circle diameter of flange

Connection bolts shown are not included in the scope of supply

Technical data

PN 16

DN		80	100	125	150	175	200	250	300	350	400	450	500
D	[mm]	200	220	250	285	315	340	405	460	520	580	640	715
L1	[mm]	175	175	175	175	195	195	205	225	235	245	245	255
L2	[mm]	200	200	200	200	220	220	230	250	260	270	270	280
L3	[mm]	225	225	225	225	245	245	255	275	285	295	295	305
b	[mm]	20	22	24	24	26	26	32	32	36	38	42	44
d2	[mm]	18	18	18	22	22	22	26	26	26	30	30	33
k	[mm]	160	180	210	240	270	295	355	410	470	525	585	650
No. of holes		8	8	8	8	8	12	12	12	16	16	20	20
Adjustment dimensions +/-	[mm]	25	25	25	25	25	25	25	25	25	25	25	25
Adjustment rate +/- 30%	[N/mm]	187	153	240	254	200	382	495	1152	1656	1880	1721	1781
Effective surface	[mm ²]	82.4	122.4	182.5	257.3	335.3	424.2	642.5	892.0	1081.0	1393.0	1776.0	2173.0
Weight approx.	[kg]	6.50	8.00	11.00	18.00	19.00	20.00	32.00	40.00	66.00	80.00	94.00	150.00



Technical data

PN 16

DN		600	700	800	900	1000	1100	1200
D	[mm]	840	910	1025	1125	1255	1355	1485
L1	[mm]	275	275	295	295	315	290	310
L2	[mm]	300	300	320	320	340	315	325
L3	[mm]	325	325	345	345	365	340	360
b	[mm]	48	36	38	40	42	42	48
d2	[mm]	36	36	39	39	42	42	48
k	[mm]	770	840	950	1050	1170	1270	1390
No. of holes		20	24	24	28	28	32	32
Adjustment dimensions +/-	[mm]	25	25	25	25	25	25	25
Adjustment rate +/- 30%	[N/mm]	2120	1858	1668	3267	3250	785	980
Effective surface	[mm ²]	3088.0	4174.0	5450.0	6867.0	8463.0	10279.0	12155.0
Weight approx.	[kg]	190.00	210.00	240.00	310.00	360.00	430.00	500.00

PN 10

DN		80	100	125	150	175	200	250	300	350	400	450	500
D	[mm]	200	220	250	285	315	340	395	445	505	565	615	670
L1	[mm]	175	175	175	175	195	195	195	195	205	205	225	235
L2	[mm]	200	200	200	200	220	220	220	220	230	230	250	260
L3	[mm]	225	225	225	225	245	245	245	245	255	255	275	285
b	[mm]	20	22	24	24	26	26	28	28	30	32	32	34
d2	[mm]	18	18	18	22	22	22	22	22	22	26	26	26
k	[mm]	160	180	210	240	270	295	350	400	460	515	565	620
No. of holes		8	8	8	8	8	8	12	12	16	16	20	20
Adjustment dimensions +/-	[mm]	25	25	25	25	25	25	25	25	25	25	25	25
Adjustment rate +/- 30%	[N/mm]	111	153	107	130	116	252	280	253	403	460	417	1178
Effective surface	[mm ²]	82.4	122.4	182.5	257.3	335.3	424.2	642.5	892.0	1081.0	1393.0	1776.0	2173.0
Weight approx.	[kg]	6.00	7.00	10.00	17.00	18.00	19.00	27.00	36.00	54.00	60.00	70.00	90.00

PN 10

DN		600	700	800	900	1000	1100	1200
D	[mm]	780	895	1015	1115	1230	1340	1455
L1	[mm]	235	235	265	265	265	280	300
L2	[mm]	260	260	290	290	290	305	325
L3	[mm]	285	285	315	315	315	330	350
b	[mm]	36	30	32	34	34	34	38
d2	[mm]	30	30	33	33	36	36	39
k	[mm]	725	840	950	1050	1160	1270	1380
No. of holes		20	24	24	28	28	32	32
Adjustment dimensions +/-	[mm]	25	25	25	25	25	25	25
Adjustment rate +/- 30%	[N/mm]	1403	1435	1105	1291	1940	650	850
Effective surface	[mm ²]	3088.0	4174.0	5450.0	6867.0	8463.0	10279.0	12155.0
Weight approx.	[kg]	120.00	150.00	200.00	270.00	320.00	370.00	400.00