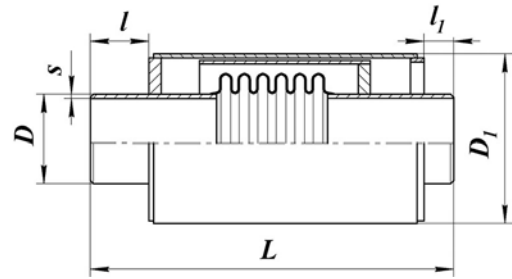


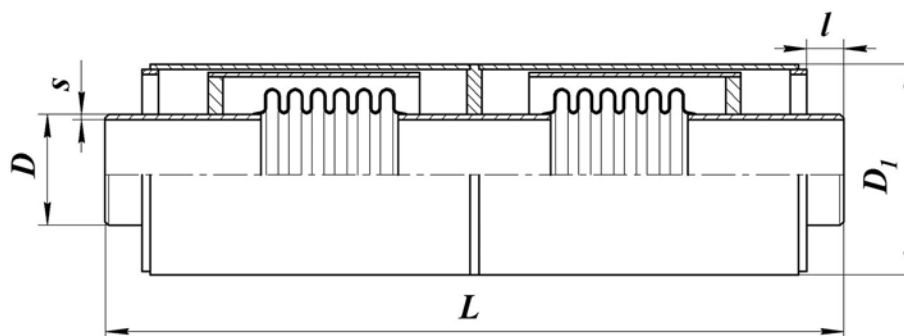
## Bellows expansion joint, type OPKR

Single-bellows and double-bellows expansion joints consisting of one or two bellows and connection branch pipes further welded to a pipeline, with a forced double (extensible) casing. The design provides for protection from hyperadmissible bellows deformations (tensile-and-compression limiters). The outer surface of bellows and branch pipes has a corrosion-resistant waterproof coating.



Reference designation	PN, MPa	DN, mm	Axial stroke 2λ-1, mm	Dimensions, mm						Weight, kg
				D	s	D <sub>1</sub>	L	l <sub>1</sub>	l <sub>2</sub>	
ОПКР-16-50-80-2.2	1,6 (16)	50	80	57	4,0	159	536	100	120	16
ОПКР-16-65-80-2.2		65	80	76	4,0	180	542		120	17
ОПКР-16-80-90-2.2		80	90	89	4,0	194	561		120	20
ОПКР-16-100-120-2.2		100	120	108	4,0	219	619		150	25
ОПКР-16-125-130-2.2		125	130	133	5,0	245	625		150	31
ОПКР-16-150-150-2.2		150	150	159	6,0	273	638		150	37
ОПКР-16-200-160-2.2		200	160	219	8,0	340	744		150	57
ОПКР-16-250-180-2.2		250	180	273	7,0	400	775		150	67
ОПКР-16-300-190-2.2		300	190	325	8,0	455	790		150	117
ОПКР-16-350-190-1.2		350	190	377	9,0	510	799		150	139
ОПКР-16-400-200-1.2		400	200	426	9,0	575	836		150	175
ОПКР-16-500-210-1.3		500	210	530	8,0	686	827		150	232
ОПКР-16-600-220-1.3		600	220	630	8,0	820	890		150	340
ОПКР-16-700-220-1.3		700	220	720	8,0	920	1003		150	499
ОПКР-16-800-240-1.3		800	240	820	9,0	1020	1046		150	577
ОПКР-16-900-260-1.3		900	260	920	10,0	1120	1039		150	727
ОПКР-16-1000-260-1.3	1000	260	1020	12,0	1320	1071	150	901		
ОПКР-16-1200-260-1.3	1200	260	1220	12,0	1420	1071	150	1125		
ОПКР-16-1400-260-1.3	1400	260	1420	12,0	1620	1077	150	1334		
ОПКР-25-50-80-2.2	2,5 (25)	50	80	57	4,0	159	536	100	120	16
ОПКР-25-65-80-2.2		65	80	76	4,0	180	542		120	17
ОПКР-25-80-90-2.2		80	90	89	4,0	194	561		120	20
ОПКР-25-100-120-2.2		100	120	108	4,0	219	620		150	26
ОПКР-25-125-130-2.2		125	130	133	5,0	245	625		150	32
ОПКР-25-150-150-2.2		150	150	159	6,0	273	638		150	37
ОПКР-25-200-160-2.2		200	160	219	8,0	340	744		150	67
ОПКР-25-250-180-2.2		250	180	273	7,0	400	775		150	98
ОПКР-25-300-190-2.2		300	190	325	8,0	455	793		150	124
ОПКР-25-350-190-1.2		350	190	377	9,0	510	819		150	157
ОПКР-25-400-200-1.2		400	200	426	9,0	575	846		150	204
ОПКР-25-500-210-1.3		500	210	530	8,0	686	837		150	245
ОПКР-25-600-220-1.3		600	220	630	8,0	820	908		150	366
ОПКР-25-700-220-1.3		700	220	720	8,0	920	1019		150	513
ОПКР-25-800-240-1.3		800	240	820	9,0	1020	1063		150	610
ОПКР-25-900-260-1.3		900	260	920	10,0	1120	1054		150	775
ОПКР-25-1000-260-1.3	1000	260	1020	12,0	1320	1087	150	1045		
ОПКР-25-1200-260-1.3	1200	260	1220	12,0	1420	1115	150	1223		
ОПКР-25-1400-260-1.3	1400	260	1420	12,0	1620	1095	150	1422		

## Two-bellows expansion joint, type OPKR



Reference designation	PN, MPa	DN, mm	Axial stroke 2λ-1, mm	Dimensions, mm					Weight, kg
				D	s	D <sub>1</sub>	L	l <sub>1</sub>	
2OPKR-16-50-160-2.2	1,6 (16)	50	160	57	4,0	159	864	120	32
2OPKR-16-65-160-2.2		65	160	76	4,0	180	876	120	39
2OPKR-16-80-180-2.2		80	180	89	4,0	194	914	120	44
2OPKR-16-100-240-2.2		100	240	108	4,0	219	1030	150	47
2OPKR-16-125-260-2.2		125	260	133	4,0	245	1042	150	65
2OPKR-16-150-300-2.2		150	300	159	6,0	273	1068	150	68
2OPKR-16-200-320-2.2		200	320	219	8,0	340	1276	150	143
2OPKR-16-250-360-2.2		250	360	273	7,0	400	1338	150	181
2OPKR-16-300-380-2.2		300	380	325	8,0	455	1368	150	222
2OPKR-16-350-380-1.2		350	380	377	9,0	510	1386	150	285
2OPKR-16-400-400-1.2		400	400	426	9,0	575	1460	150	340
2OPKR-16-500-420-1.3		500	420	530	8,0	686	1442	150	357
2OPKR-16-600-440-1.3		600	440	630	8,0	820	1570	150	750
2OPKR-16-700-440-1.3		700	440	720	8,0	920	1794	150	945
2OPKR-16-800-480-1.3		800	480	820	9,0	1020	1880	150	1100
2OPKR-16-900-520-1.3		900	520	920	10,0	1120	1862	150	1500
2OPKR-16-1000-520-1.3		1000	520	1020	12,0	1320	1720	150	1764
2OPKR-16-1200-520-1.3		1200	520	1220	12,0	1420	1720	150	1920
2OPKR-16-1400-520-1.3		1400	520	1420	12,0	1620	1680	150	2246
2OPKR-25-50-160-2.2		2,5 (25)	50	160	57	4,0	159	864	120
2OPKR-25-65-160-2.2	65		160	76	4,0	180	876	120	39
2OPKR-25-80-180-2.2	80		180	89	4,0	194	914	120	44
2OPKR-25-100-240-2.2	100		240	108	4,0	219	1032	150	48
2OPKR-25-125-260-2.2	125		260	133	5,0	245	1042	150	71
2OPKR-25-150-300-2.2	150		300	159	6,0	273	1068	150	73
2OPKR-25-200-320-2.2	200		320	219	8,0	340	1276	150	148
2OPKR-25-250-360-2.2	250		360	273	7,0	400	1338	150	183
2OPKR-25-300-380-2.2	300		380	325	8,0	455	1374	150	262
2OPKR-25-350-380-1.2	350		380	377	9,0	510	1426	150	341
2OPKR-25-400-400-1.2	400		400	426	9,0	575	1480	150	375
2OPKR-25-500-420-1.3	500		420	530	8,0	686	1462	150	371
2OPKR-25-600-440-1.3	600		440	630	8,0	820	1604	150	681
2OPKR-25-700-440-1.3	700		440	720	8,0	920	1826	150	983
2OPKR-25-800-480-1.3	800		480	820	9,0	1020	1914	150	1170
2OPKR-25-900-520-1.3	900		520	920	10,0	1120	1892	150	1557
2OPKR-25-1000-520-1.3	1000		520	1020	12,0	1320	1720	150	1850
2OPKR-25-1200-520-1.3	1200		520	1220	12,0	1420	1720	150	2040
2OPKR-25-1400-520-1.3	1400		520	1420	12,0	1620	1680	150	2383