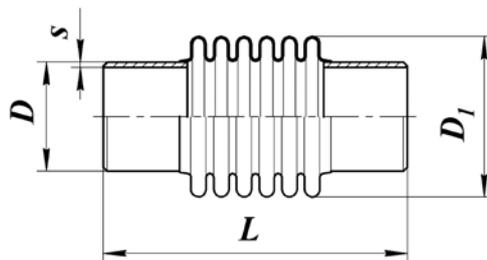


Bellows expansion joint, type OPN (OPNR)

An expansion joint consisting of a bellows and connection branch pipes further welded to a pipeline. Bellows expansion joints of the OPN (OPNR) type can also be installed directly into pipelines that conduct water with a temperature of up to 150°C and a speed of up to 8 m/s, as well as steam with a temperature of up to 300°C and a speed of up to 40 m/s.



Reference designation	PN, MPa	DN, mm	Axial stroke 2λ-1, mm	Dimensions, mm				Weight, kg
				D	s	D ₁	L	
ОПН-16-50-70-2.2	1,6 (16)	50	70	57	4,0	105	349	3
ОПН-16-65-70-2.2		65	70	76	4,0	105	349	3
ОПН-16-80-70-2.2		80	70	89	4,0	120	359	3
ОПН-16-100-80-2.2		100	80	108	4,0	143	370	4
ОПН-16-125-90-2.2		125	90	133	5,0	171	381	5
ОПН-16-150-100-2.2		150	100	159	6,0	203	387	6
ОПН-16-200-140-2.2		200	140	219	8,0	259	433	13
ОПН-16-250-160-2.2		250	160	273	7,0	319	612	27
ОПН-16-300-180-2.2		300	180	325	8,0	373	631	32
ОПН-16-350-180-1.2		350	180	377	9,0	431	640	41
ОПН-16-400-190-1.2		400	190	426	9,0	485	668	58
ОПН-16-500-200-1.3		500	200	530	8,0	600	682	85
ОПН-16-600-200-1.3		600	200	630	8,0	706	695	112
ОПН-16-700-210-1.3		700	210	720	8,0	797	698	140
ОПН-16-800-210-1.3		800	210	820	9,0	911	726	158
ОПН-16-900-210-1.3		900	210	920	10,0	1015	704	194
ОПН-16-1000-220-1.3		1000	220	1020	12,0	1117	726	229
ОПН-16-1200-220-1.3		1200	220	1220	12,0	1319	726	323
ОПН-16-1400-220-1.3		1400	220	1420	12,0	1522	732	408
ОПН-25-50-70-2.2	2,5 (25)	50	70	57	4,0	105	349	3
ОПН-25-65-70-2.2		65	70	76	4,0	105	349	3
ОПН-25-80-70-2.2		80	70	89	4,0	120	359	3
ОПН-25-100-80-2.2		100	80	108	4,0	143	370	4
ОПН-25-125-90-2.2		125	90	133	5,0	172	382	6
ОПН-25-150-100-2.2		150	100	159	6,0	204	396	7
ОПН-25-200-140-2.2		200	140	219	8,0	261	442	16
ОПН-25-250-160-2.2		250	160	273	7,0	319	621	27
ОПН-25-300-180-2.2		300	180	325	8,0	374	632	38
ОПН-25-350-180-1.2		350	180	377	9,0	431	658	54
ОПН-25-400-190-1.2		400	190	426	9,0	485	678	65
ОПН-25-500-200-1.3		500	200	530	8,0	600	692	96
ОПН-25-600-200-1.3		600	200	630	8,0	706	713	125
ОПН-25-700-210-1.3		700	210	720	8,0	797	714	153
ОПН-25-800-210-1.3		800	210	820	9,0	911	743	184
ОПН-25-900-210-1.3		900	210	920	10,0	1015	719	230
ОПН-25-1000-220-1.3		1000	220	1020	12,0	1117	742	276
ОПН-25-1200-220-1.3		1200	220	1220	12,0	1319	770	378
ОПН-25-1400-220-1.3		1400	220	1420	12,0	1522	750	475

Reference designation	PN, MPa	DN, mm	Axial stroke 2λ-1, mm	Dimensions, mm				Weight, kg
				D	s	D ₁	L	
ОПНР-16-50-80-2.2	1,6 (16)	50	80	57	4,0	105	382	3
ОПНР-16-65-80-2.2		65	80	76	4,0	105	382	3
ОПНР-16-80-90-2.2		80	90	89	4,0	120	396	3
ОПНР-16-100-120-2.2		100	120	108	4,0	144	410	5
ОПНР-16-125-130-2.2		125	130	133	5,0	172	410	6
ОПНР-16-150-150-2.2		150	150	159	6,0	204	413	7
ОПНР-16-200-160-2.2		200	160	219	8,0	260	464	14
ОПНР-16-250-180-2.2		250	180	273	7,0	319	645	27
ОПНР-16-300-190-2.2		300	190	325	8,0	373	655	33
ОПНР-16-350-190-1.2		350	190	377	9,0	431	664	42
ОПНР-16-400-200-1.2		400	200	426	9,0	485	696	54
ОПНР-16-500-210-1.3		500	210	530	8,0	600	682	86
ОПНР-16-600-220-1.3		600	220	630	8,0	706	695	112
ОПНР-16-700-220-1.3		700	220	720	8,0	797	698	141
ОПНР-16-800-240-1.3		800	240	820	9,0	911	726	158
ОПНР-16-900-260-1.3		900	260	920	10,0	1015	704	194
ОПНР-16-1000-260-1.3		1000	260	1020	12,0	1117	726	229
ОПНР-16-1200-260-1.3		1200	260	1220	12,0	1319	726	323
ОПНР-16-1400-260-1.3		1400	260	1420	12,0	1522	732	408
ОПНР-25-50-80-2.2		2,5 (25)	50	80	57	4,0	105	382
ОПНР-25-65-80-2.2	65		80	76	4,0	105	382	3
ОПНР-25-80-90-2.2	80		90	89	4,0	120	396	3
ОПНР-25-100-120-2.2	100		120	108	4,0	144	410	5
ОПНР-25-125-130-2.2	125		130	133	5,0	172	410	6
ОПНР-25-150-150-2.2	150		150	159	6,0	204	413	7
ОПНР-25-200-160-2.2	200		160	219	8,0	260	464	14
ОПНР-25-250-180-2.2	250		180	273	7,0	319	645	27
ОПНР-25-300-190-2.2	300		190	325	8,0	374	658	39
ОПНР-25-350-190-1.2	350		190	377	9,0	431	684	57
ОПНР-25-400-200-1.2	400		200	426	9,0	485	706	69
ОПНР-25-500-210-1.3	500		210	530	8,0	600	692	96
ОПНР-25-600-220-1.3	600		220	630	8,0	706	713	125
ОПНР-25-700-220-1.3	700		220	720	8,0	797	714	153
ОПНР-25-800-240-1.3	800		240	820	9,0	911	743	184
ОПНР-25-900-260-1.3	900		260	920	10,0	1015	719	230
ОПНР-25-1000-260-1.3	1000		260	1020	12,0	1117	742	276
ОПНР-25-1200-260-1.3	1200		260	1220	12,0	1319	770	378
ОПНР-25-1400-260-1.3	1400		260	1420	12,0	1522	750	475