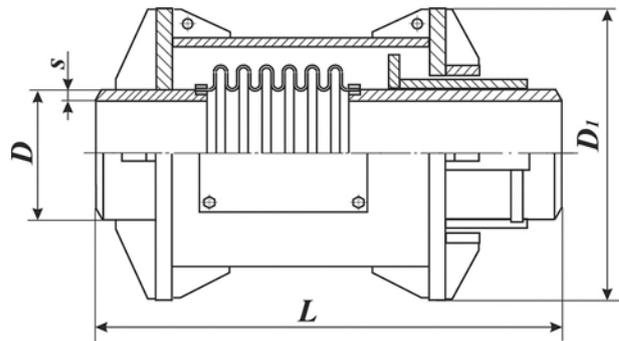


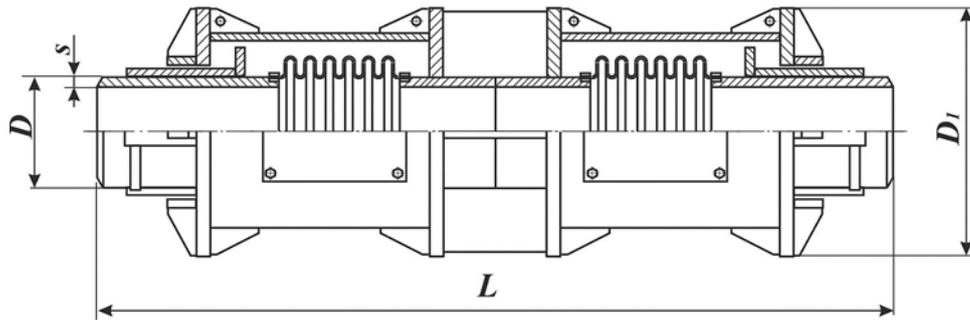
Bellows expansion joint, type KSO (KSOR)

Single-block and double-block expansion joints consisting of one or two bellows and connection branch pipes further welded to a pipeline, with a mounted forced double casing and outer guides. The design provides for protection from hyperadmissible bellows deformations (tensile-and-compression limiters), inspection windows in the casing and a rule for bellows condition monitoring in the course of operation. 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 ₁	L	
KCO-25-50-70-2.2	2,5 (25)	50	70	57	4,0	235	844	27
KCO-25-65-70-2.2		65	70	76	4,0	235	844	27
KCO-25-80-70-2.2		80	70	89	4,0	260	854	32
KCO-25-100-80-2.2		100	80	108	4,0	320	875	46
KCO-25-125-90-2.2		125	90	133	5,0	320	897	52
KCO-25-150-100-2.2		150	100	159	4,5	375	925	71
KCO-25-200-140-2.2		200	140	219	6,0	425	1011	101
KCO-25-250-160-2.2		250	160	273	7,0	477	823	105
KCO-25-300-180-2.2		300	180	325	8,0	526	854	132
KCO-25-350-180-1.2		350	180	377	9,0	630	880	183
KCO-25-400-190-1.2		400	190	426	9,0	630	910	205
KCO-25-500-200-1.3		500	200	530	8,0	820	934	291
KCO-25-600-200-1.3		600	200	630	8,0	920	955	352
KCO-25-700-210-1.3		700	210	720	8,0	1020	962	411
KCO-25-800-210-1.3		800	210	820	9,0	1120	995	548
KCO-25-900-210-1.3		900	210	920	10,0	1320	971	700
KCO-25-1000-220-1.3		1000	220	1020	10,0	1320	1006	758
KCO-25-1200-220-1.3		1200	220	1220	14,0	1520	1006	1001
KCO-25-1400-220-1.3		1400	220	1420	14,0	1700	1215	1612
KCOP-25-50-80-2.2		50	80	57	4,0	235	887	28
KCOP-25-65-80-2.2		65	80	76	4,0	235	887	28
KCOP-25-80-90-2.2		80	90	89	4,0	260	910	32
KCOP-25-100-120-2.2		100	120	108	4,0	320	954	47
KCOP-25-125-130-2.2		125	130	133	5,0	320	965	52
KCOP-25-150-150-2.2		150	150	159	4,5	375	991	72
KCOP-25-200-160-2.2		200	160	219	6,0	425	1070	98
KCOP-25-250-180-2.2		250	180	273	7,0	477	866	106
KCOP-25-300-190-2.2		300	190	325	8,0	526	888	131
KCOP-25-350-190-1.2		350	190	377	9,0	630	914	189
KCOP-25-400-200-1.2		400	200	426	9,0	630	947	209
KCOP-25-500-210-1.3		500	210	530	8,0	820	944	290
KCOP-25-600-220-1.3		600	220	630	8,0	920	975	351
KCOP-25-700-220-1.3		700	220	720	8,0	1020	972	409
KCOP-25-800-240-1.3		800	240	820	9,0	1120	1025	548
KCOP-25-900-260-1.3		900	260	920	10,0	1320	1021	754
KCOP-25-1000-260-1.3		1000	260	1020	10,0	1320	1046	757
KCOP-25-1200-260-1.3		1200	260	1220	14,0	1520	1046	1006
KCOP-25-1400-260-1.3		1400	260	1420	14,0	1700	1451	1688

Two-bellows expansion joint, type KSO (KSOR)



Reference designation	PN, MPa	DN, mm	Axial stroke 2λ-1, mm	Dimensions, mm				Weight, kg
				D	s	D1	L	
2KCO-25-50-140-2.2	2,5 (25)	50	140	57	4,0	235	1688	60
2KCO-25-65-140-2.2		65	140	76	4,0	235	1688	60
2KCO-25-80-140-2.2		80	140	89	4,0	260	1708	71
2KCO-25-100-160-2.2		100	160	108	4,0	320	1750	100
2KCO-25-125-180-2.2		125	180	133	5,0	320	1794	113
2KCO-25-150-200-2.2		150	200	159	4,5	375	1850	153
2KCO-25-200-280-2.2		200	280	219	6,0	425	2022	215
2KCO-25-250-320-2.2		250	320	273	7,0	477	1646	225
2KCO-25-300-360-2.2		300	360	325	8,0	526	1708	279
2KCO-25-320-360-1.2		350	360	377	9,0	630	1760	385
2KCO-25-400-380-1.2		400	380	426	9,0	630	1820	428
2KCO-25-500-400-1.3		500	400	530	8,0	820	1868	607
2KCO-25-600-400-1.3		600	400	630	8,0	920	1910	732
2KCO-25-700-420-1.3		700	420	720	8,0	1020	1924	854
2KCO-25-800-420-1.3		800	420	820	9,0	1120	1990	1115
2KCO-25-900-420-1.3		900	420	920	10,0	1320	1942	1426
2KCO-25-1000-440-1.3		1000	440	1020	10,0	1320	2012	1530
2KCO-25-1200-440-1.3		1200	440	1220	14,0	1520	2012	2029
2KCO-25-1400-440-1.3		1400	440	1420	14,0	1700	2430	3235
2KCOP-25-50-160-2.2		2,5 (25)	50	160	57	4,0	235	1774
2KCOP-25-65-160-2.2	65		160	76	4,0	235	1774	60
2KCOP-25-80-180-2.2	80		180	89	4,0	260	1820	71
2KCOP-25-100-240-2.2	100		240	108	4,0	320	1908	103
2KCOP-25-125-260-2.2	125		260	133	5,0	320	1930	113
2KCOP-25-150-300-2.2	150		300	159	4,5	375	1982	156
2KCOP-25-200-320-2.2	200		320	219	6,0	425	2140	210
2KCOP-25-250-360-2.2	250		360	273	7,0	477	1732	227
2KCOP-25-300-360-2.2	300		380	325	8,0	526	1776	277
2KCOP-25-350-380-1.2	350		380	377	9,0	630	1828	399
2KCOP-25-400-400-1.2	400		400	426	9,0	630	1894	439
2KCOP-25-500-420-1.3	500		420	530	8,0	820	1888	609
2KCOP-25-600-440-1.3	600		440	630	8,0	920	1950	735
2KCOP-25-700-440-1.3	700		440	720	8,0	1020	1944	859
2KCOP-25-800-480-1.3	800		480	820	9,0	1120	2050	1125
2KCOP-25-900-520-1.3	900		520	920	10,0	1320	2042	1449
2KCOP-25-1000-520-1.3	1000		520	1020	10,0	1320	2092	1543
2KCOP-25-1200-520-1.3	1200		520	1220	14,0	1520	2092	2054
2KCOP-25-1400-520-1.3	1400		520	1420	14,0	1700	2902	3443