

# Expansion joints

 **Specma Wiro**

Axial  
Lateral  
Hinged  
Angular



# Expansion joints

Axial-, lateral-, angular- och hinged expansion joints in stainless / acid proof steel with all kinds of connections. Expansion joints and bellows compensate thermo expansion and absorb vibrations.



## Things to consider when choosing expansion joints:

Pressure, temperature, media, pipe length.  
Is the pipeline bound for inspection?

## Axial expansion joints with pipe ends.

### Type AXS PN 16

Bellow in material AISI 316L

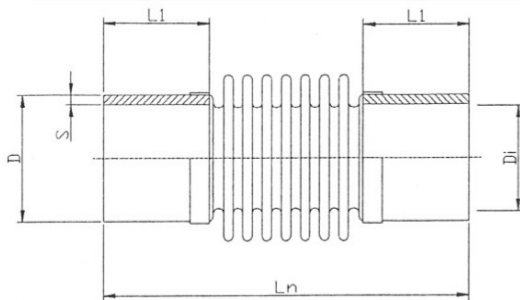
Pipe ends in pressure vessel steel



Other materials, pressure standards and dimensions up to Ø 5000 mm on demand.

## PN16

DN	Part. nr.	Allowed movement mm +/-	LN mm	D mm	S mm	L1 mm	Di mm	Spring constant N/mm	Active area mm <sup>2</sup>
25	AXS16025020	10	175	33,7	3,2	60	29	127	882
32	AXS16032020	10	180	42,4	2,6	60	38	146	1419
40	AXS16040040	20	235	48,3	2,6	60	41	204	1847
50	AXS16050040	20	225	60,3	2,9	60	53	208	2875
65	AXS16065060	30	235	76,1	2,9	60	66	233	4536
80	AXS16080070	35	230	88,9	3,2	60	79	203	6221
100	AXS16100070	35	245	114,3	3,6	60	101	234	10207
125	AXS16125070	35	245	139,7	3,6	60	127	233	15284
150	AXS16150080	40	230	168,3	4	60	152	247	22167
200	AXS16200080	40	245	219,1	4,5	60	203	259	37649
250	AXS16250080	40	245	273	5	60	257	323	58535
300	AXS16300080	40	245	323,9	5,6	60	308	383	82448
350	AXS16350090	45	270	355,6	5,6	60	340	445	99538
400	AXS16400090	45	310	406,4	6,3	60	390	715	129462
450	AXS16450090	45	275	457,2	6,3	60	441	817	164030
500	AXS16500090	45	275	508	6,3	60	492	908	202683
600	AXS16600090	45	275	609,6	8	60	594	1089	292267



# Expansion joints

Axial-, lateral-, angular- och hinged expansion joints in stainless / acid proof steel with all kinds of connections.  
Expansion joints and bellows compensate thermo expansion and absorb vibrations.

## Things to consider when choosing expansion joints:

Pressure, temperature, media, pipe lenght.  
Is the pipeline bound for inspection?

## Axial expansion joints with pipe ends.

### Type AXS PN 16

Bellow in material AISI 316L

AXF, fixed flange acc to EN1092-1 PN16 in material P250GH

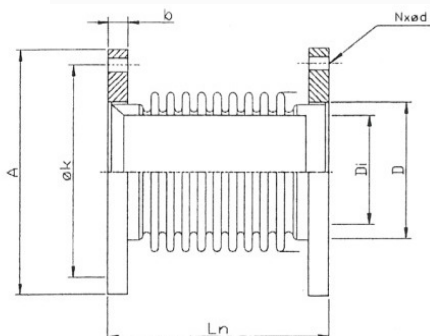
AXL, loose hot dip galvanized flange acc to SSG7485/EN1092-1

PN16 on material P280GH on a pressed collar in material 1.4404.

Other materials, pressure standards and dimensions up to Ø 5000 mm on demand.

### PN16

DN	Part. no.	Allowed movement mm +/-	AXL LN mm	AXF LN mm	D mm	Di mm	A mm	øk mm	B mm AXL/AXF	N stk.	ød mm	Spring constant N/mm	Active area mm2
25	AX-16025020	10	100	130	33,7	29	115	85	16/18	4	14	127	882
32	AX-16032020	10	110	140	42,4	38	140	100	18/18	4	18	146	1419
40	AX-16040040	20	170	200	48,3	41	150	110	18/18	4	18	204	1847
50	AX-16050040	20	160	195	60,3	53	165	125	20/18	4	18	208	2875
65	AX-16065060	30	175	205	76,1	66	185	145	20/18	4	18	233	4536
80	AX-16080070	35	170	210	88,9	79	200	160	22/20	8	18	203	6221
100	AX-16100070	35	185	230	114,3	101	220	180	22/20	8	18	234	10207
125	AX-16125070	35	185	240	139,7	127	250	210	22/22	8	18	233	15284
150	AX-16150080	40	-	220	168,3	152	285	240	22	8	22	247	22167
200	AX-16200080	40	-	245	219,1	203	340	295	24	12	22	259	37649
250	AX-16250080	40	-	265	273	257	405	355	26	12	26	323	58535
300	AX-16300080	40	-	280	323,9	308	460	410	28	12	26	383	82448
350	AX-16350090	45	-	315	355,6	340	520	470	30	16	26	445	99538
400	AX-16400090	45	-	360	406,4	390	580	525	32	16	30	715	129462
450	AX-16450090	45	-	325	457,0	441	640	585	34	20	30	817	164030
500	AX-16500090	45	-	335	508	492	715	650	36	20	33	908	202683
600	AX-16600090	45	-	345	610	594	840	770	40	20	36	1089	292267



# Expansion joints

Axial-, lateral-, angular- och hinged expansion joints in stainless / acid proof steel with all kinds of connections. Expansion joints and bellows compensate thermo expansion and absorb vibrations.

## Things to consider when choosing expansion joints:

Pressure, temperature, media, pipe length.

Is the pipeline bound for inspection?

## Exhaust expansion joints Type PN 2,5

Exhaust expansion joints with bellows in AISI 316L.

USS pipe ends in pressure vessel steel.

USF fixed flange PN 10 add 20 mm on the LN.

USL one fixed and one loose flange PN 10 Add 20 mm on the LN.

Other materials, pressure standards and dimensions up to Ø 5000 mm on demand.

DN	Part. nr.	Allowed movement mm +/-	USS LN mm	Pipe ends				Spring constant N/mm	Active area mm <sup>2</sup>	Weight kg
				D mm	S mm	L1 mm	Di mm			
40	USS2.5040030	15	200	48,3	2,6	55	43,1	103	2490	0,5
50	USS2.5050030	15	200	60,3	2,9	55	55,1	103	3664	0,8
65	USS2.5065050	25	200	76,1	2,9	45	70,3	69	5958	0,9
80	USS2.5080060	30	240	88,9	3,2	55	82,5	62	7996	1,3
100	USS2.5100060	30	240	114,3	3,6	55	107,1	120	12727	2
125	USS2.5125060	30	240	139,7	3,6	55	132,5	132	18554	2,5
150	USS2.5150060	30	245	168,3	4	60	160,3	171	24411	3,9
200	USS2.5200060	30	245	219,1	4,5	60	205	257	38394	4,9
250	USS2.5250060	30	270	273	5	55	259	334	59395	6,2
300	USS2.5300060	30	270	323,9	5,6	55	309	361	83417	7,7
350	USS2.5350060	30	270	355,6	6	55	341	396	100434	8,5
400	USS2.5400080	40	280	406,4	6	60	386	191	132928	11,4
450	USS2.5450080	40	280	457,2	6	60	437	196	167783	12,9
500	USS2.5500080	40	280	508	6	60	488	218	206692	14,4
600	USS2.5600080	40	280	609,6	6	60	589	261	296671	20,3
700	USS2.6700100	50	380	711,2	6	100	691	264	402864	36
800	USS2.5800100	50	380	813	6	100	793	302	525529	41,2
900	USS2.5900100	50	380	914	6	100	894	324	663316	46,3
1000	USS2.51000100	50	380	1116	6	100	996	361	818731	51,5
1200	USS2.51200100	50	380	1224	6	100	1204	435	1186297	62,2

