



S-LINE



SLINE



PREMIUM
product

16dB (A)
Sound Insulation Level III

H i g h e s t Q u a l i t y



S-LINE

Low noise pipes & fittings



Provides reduction in noise and vibrations up to level of 16dB

S LINE SEWAGE

The pipes for domestic sewerage systems together with the appropriate coupling sleeves are intended to be used for the removal of all kinds of waste water.

Peštan Low noise piping system is promoted version of Peštan HTPP home sewage system and it is specially designed for installation in places where sound insulation is taken into account. Installed with special Peštan pipe clamps (with profiled rubber ring) provides reduction in noise and acoustic vibrations up to level of 16dB*.

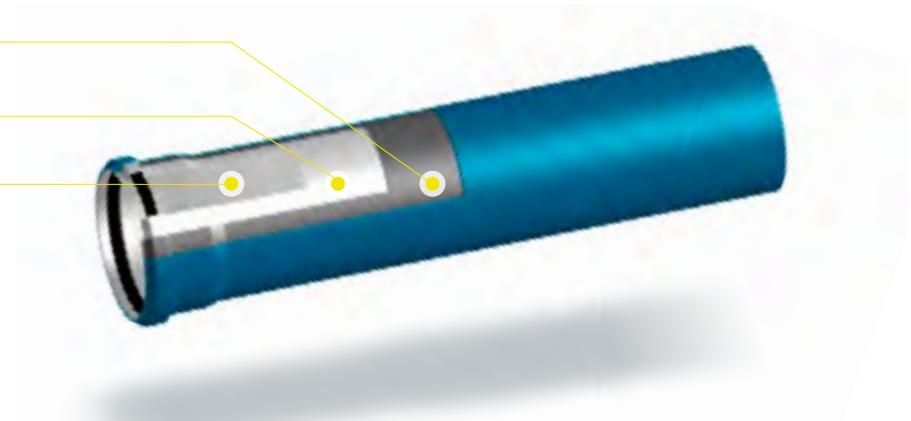
The latest technology of three-layer extrusion pipe and materials modified with mineral additives have raised disposal of waste water systems within the building structure on a higher level.

* LSC,A [dB(A)] Fraunhofer test report P-BA 93/2016e

OUTER LAYER

MIDDLE LAYER

INNER LAYER



SUPPORTED STANDARDS:

EN 1451 • EN 1411 • EN 14366 • DIN 4109 • EN 1055 • EN 681 • EN 12056

SPECIFICATION OF LOW NOISE PIPES

	INTERNAL LAYER	MIDDLE LAYER	EXTERNAL LAYER
MATERIAL	PP-C	PP-C MM (Mineral modified)	PP-C
COLOR	White	Grey	Blue
CLASS	Resistant against high water temperatures 95°C	Pipe class BD (SN 4kN/m2)	Highly resistant to impact and wear
SPECIFICATION	High chemical resistance Smooth surface provides superior flow	High density leading to very good sound insulation characteristics High ring rigidity	Installation possible even on low temperatures

ADVANTAGES OF S LINE PIPES

- Very good sound insulation
- High thermal and chemical resistance
- Simple and easy way of transport and manipulation
- Fast and cheap assembling
- White surface of inner layer allows easy inspection of pipe system
- Fully compatible with Pešťan's PVC and HTPP pipes and fittings
- High wear and impact resistance
- Acoustic insulation level 16dB(A) according to EN14366
- High corrosion resistance
- Excellent acoustic and mechanical characteristics

NOISE FROM WASTE WATER INSTALLATIONS

There are two types of noise in waste water installation systems:

- Airborne noise
- Structure-borne noise

Airborne noise

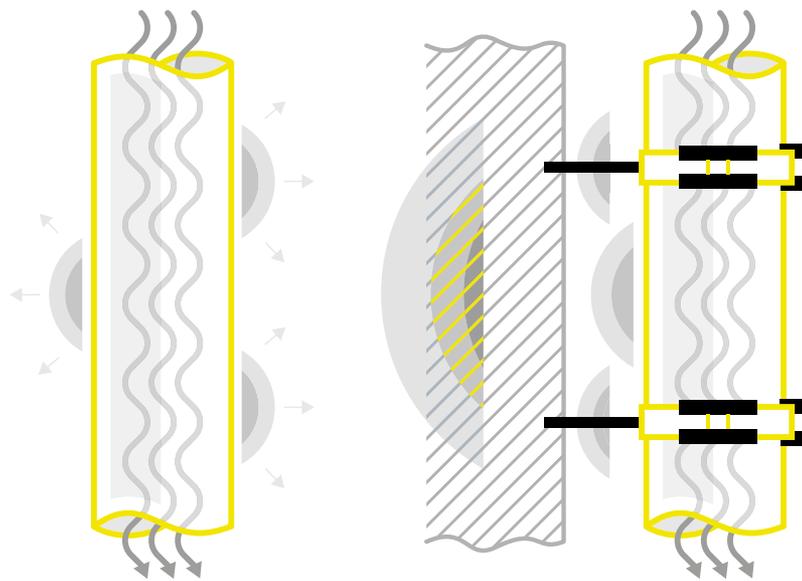
Is consequence of waste water flowing within piping system. With special design of Pešťan low noise pipes airborne sound is limited and kept inside pipes preventing annoying noise to leave the system.

Structure-borne noise

Are vibrations created by flowing waste water inside pipes. From pipes it is transmitted to pipe clamps and finally to walls of the buildings creating irritating sounds. With Pešťan's special pipe clamps and with correct installation of the pipes this type of noise can be reduced to minimum.

Confirmation of the effective elimination of mentioned problems is done in special acoustic laboratory for measuring noise from wastewater installation systems of Fraunhofer institute Stuttgart. The obtained value from testing of 19dB* makes Peřtan low noise pipes suitable for installation on places where sound insulation is taken into account (hospitals, hotels, apartment buildings, universities, libraries, dormitories etc).

* LSC,A [dB(A)] Fraunhofer test report P-BA 93/2016e



ACOUSTIC INSULATION

According to DIN 4109 noise generated from the pipeline, built-in sound-protected areas should not exceed 35 dB (A). At the same time, the norm VDI 4100 guideline shows that the noise should not exceed 30dB (A). From the above mentioned reasons, Pešťan and its HT PP pipes were put on testing at the renowned Institute in Stuttgart, where is obtained confirmation of our quality.

According to studies, Pešťan HT PP pipes and related fittings can be classified into LEVEL II sound insulation with results of 24dB (A), obtained in the tests (Test Report P-BA 95/2016).

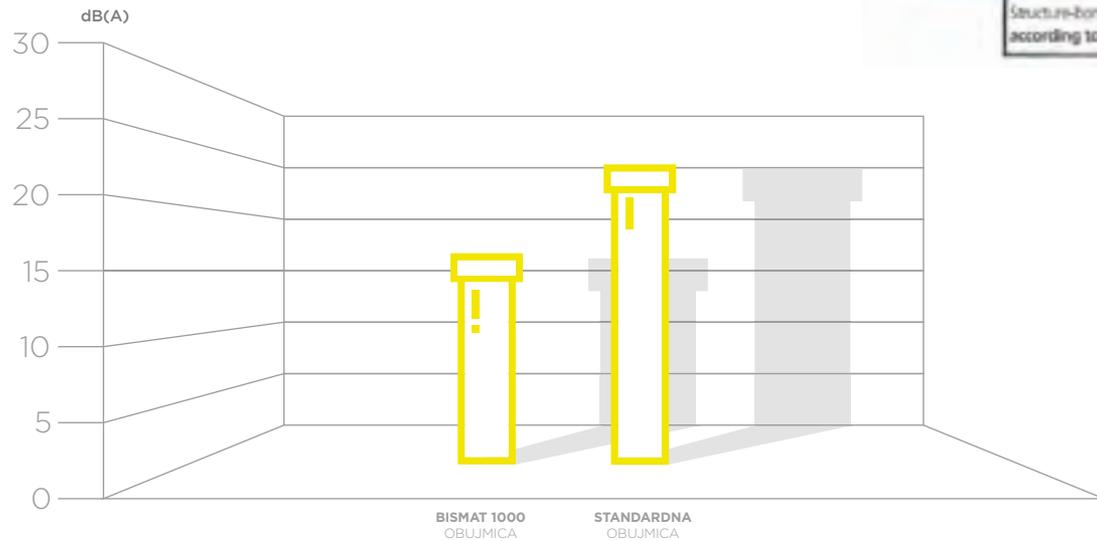
TEST WAS PERFORMED ON BISMAT 1000L COLLARS.

Airborne sound pressure level $L_{p,A}$ [dB(A)] according to EN 14366 in the basement test-room UG front.	44	46	51	54
Structure-borne sound characteristic level $L_{s,A}$ [dB(A)] according to EN 14366 in the basement test-room UG rear	11	12	16	20

Also, can not neglect the level of sound insulation of 25dB (A) when Pešťan S LINE pipes and corresponding fittings are installed with standard commercial clamps. In this way Pešťan S LINE pipes and corresponding fittings can be classified in Level II sound insulation.

TEST WAS PERFORMED ON STANDARD COMMERCIAL COLLARS.

Airborne sound pressure level $L_{p,A}$ [dB(A)] according to EN 14366 in the basement test-room UG front.	44	47	50	54
Structure-borne sound characteristic level $L_{s,A}$ [dB(A)] according to EN 14366 in the basement test-room UG rear	19	22	25	28



According to VDI 4100, there are three levels of sound insulation, depending on the purpose of the facility in which the pipes are installed:

- Level I sound insulation - requirements according to DIN 4109 corresponding to 30 dB (A)
- Level II sound insulation - a higher level of sound insulation corresponds to 25 dB (A)
- Level III sound insulation - the highest level of sound insulation corresponds to 20 dB (A)

VDI sound insulation classification:

- Level I sound insulation - family houses
- Level II sound insulation - apartment buildings, residential and commercial buildings with few floors
- Level III sound insulation - hotels, hospitals, libraries, reading rooms, residential complexes...



On family houses

Sound insulation level I or on agreement



Apartment buildings, residential and office buildings, comfort apartments

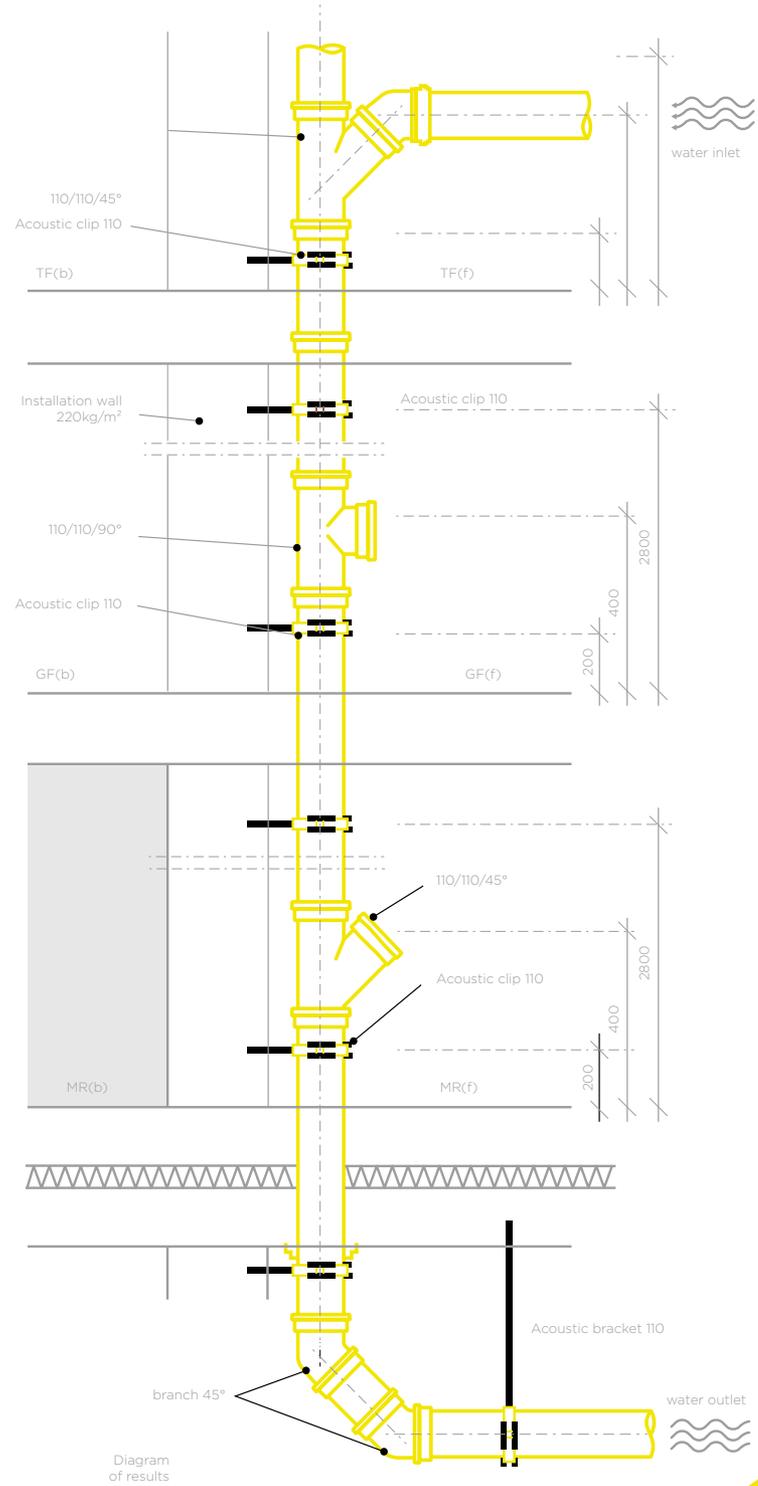
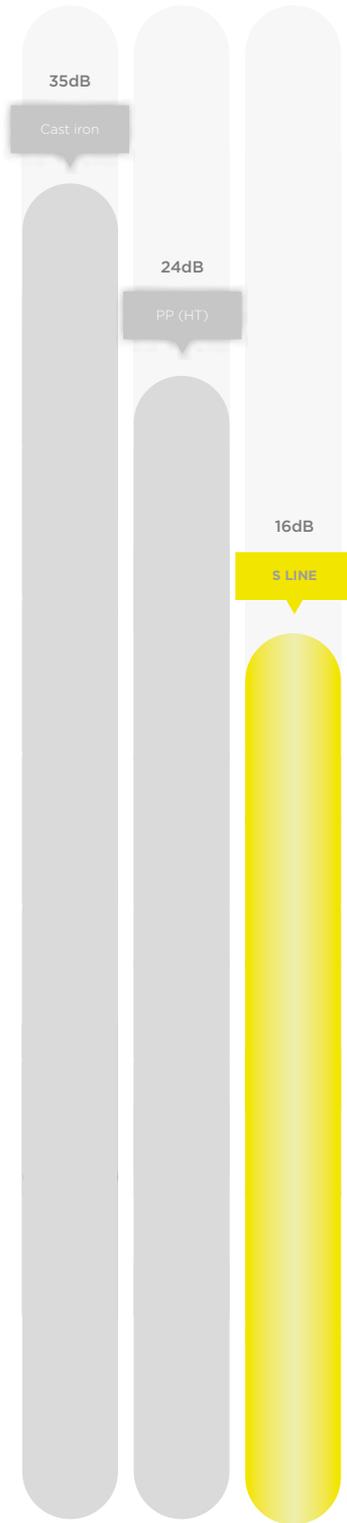
Sound insulation level II or higher



Hotels, hospitals, residential complexes

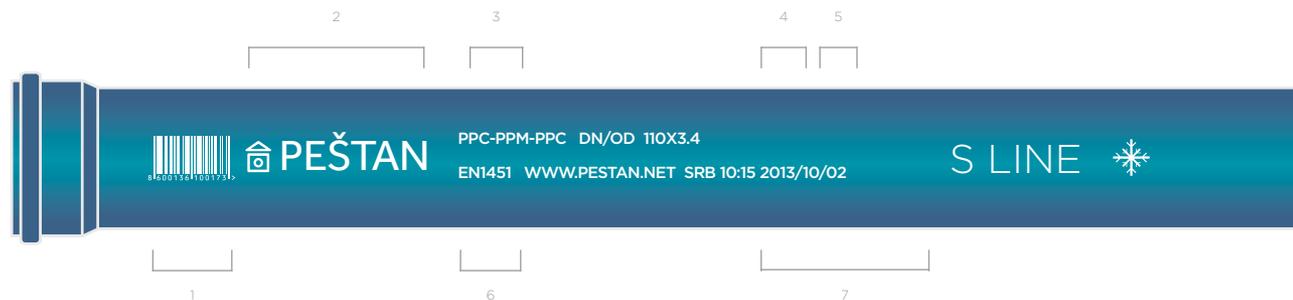
Sound insulation level III enhanced agreements

Testing of S LINE piping system



MARKING OF S LINE PIPES

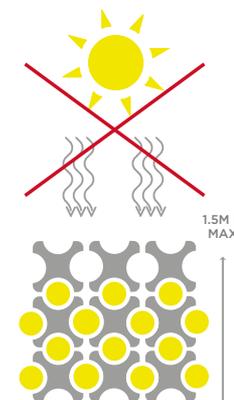
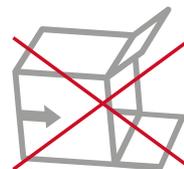
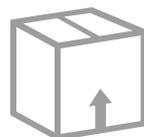
1. Bar kod, 2. Peštan logo, 3. Material, 4. Nominal diameter, 5. Wall thickness, 6. Dimensions according to EN 1451, 7. Date and time of production, 8. Snowflake installation (possible on low temperatures)



PACKING, STORAGE AND TRANSPORTATION:

All the fittings are packed in cardboard boxes. All pipes are packed in bundles. In order to prevent damage during transport, all Peštan pipes and fittings must not be transported unpacked and in horizontal position. During unloading they must

be protected against damage, particularly at temperatures below freezing. Never throw, drag or bend pipes and fittings. Pipes should be stored horizontally on even surfaces up to 1.5m high, protected against sunlight.

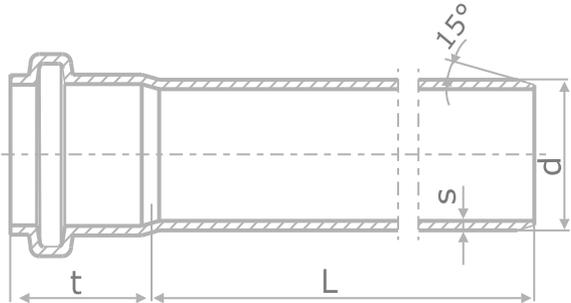


SILENCE IS CLOSER THAN EVER

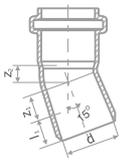
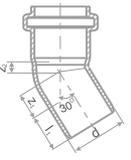
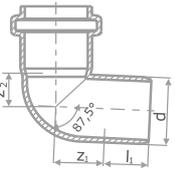
Peštan Low noise system provides reduction in noise and acoustic vibrations up to level of 16dB. Silence and piece in your home is closer than ever

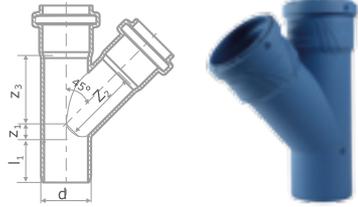
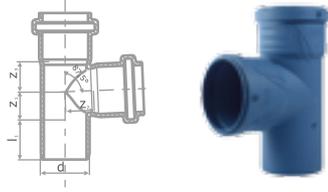


S LINE PIPES AND FITTINGS PRODUCT RANGE



D	L	S	D	L	S
32	250	1.8	90	250	2.8
	500				
	1000				
	2000				
	3000				
40	250	1.8	110	250	3.4
	500				
	1000				
	2000				
	3000				
50	250	1.8	125	250	3.9
	500				
	1000				
	2000				
	3000				
75	250	2.3	160	250	4.9
	500				
	1000				
	2000				
	3000				
	4000			4000	

DESCRIPTION	PICTURE	CODE	D	Z1	Z2	L1MIN
S LINE BEND 15°						
		00000000	50	29.005	8.26	29.005
		00000000	75	31.79	12.01	37.79
		00000000	90	33.5	13.83	33.5
		00000000	110	40.885	16.34	40.885
		00000000	125	43.84	19.52	43.84
S LINE BEND 30°						
		00000000	50	30.57	11.24	30.57
		00000000	75	29.5	16.69	29.5
		00000000	90	33.5	19.58	33.5
		00000000	110	44.385	21.66	44.385
		00000000	125	47.81	27.06	47.81
		00000000	160	53.01	32.43	53.01
S LINE BEND 45°						
		00000000	32	27.88	11.97	27.88
		00000000	40	30.205	14.64	30.205
		00000000	50	32.245	14.89	32.245
		00000000	75	36.705	22.05	36.705
		00000000	90	42.18	25.7	42.18
		00000000	110	48.145	30.92	48.145
		00000000	125	52.075	35.6	52.075
00000000	160	58.47	44.24	58.47		
S LINE BEND 67,5°						
		00000000	32	29.645	16.03	29.645
		00000000	40	32.48	18.71	32.48
		00000000	50	35.15	21.03	35.15
		00000000	75	41.125	30.49	41.125
		00000000	90	47.5	36.39	47.5
		00000000	110	54.67	43.68	54.67
		00000000	125	59.475	51.07	59.475
		00000000	160	67.955	63.7	67.955
S LINE BEND 87,5°						
		00000000	32	31.655	20.09	31.655
		00000000	40	35.07	23.77	35.07
		00000000	50	38.46	27.59	38.46
		00000000	75	46.155	40.69	46.155
		00000000	90	54.055	48.65	54.055
		00000000	110	62.1	58.545	62.1
		00000000	125	67.905	68.15	67.905

DESCRIPTION	PICTURE	CODE	D	Z1	Z2	Z3	L1MIN
S LINE BRANCH 45°							
	00000000	32	6.78	47.68	47.6	47.22	
	00000000	40	2.64	54.48	53.64	52	
	00000000	40	8.28	59.24	59.41	49.72	
	00000000	50	2.14	61.09	57.72	48.1	
	00000000	50	3.59	64.95	64.5	55	
	00000000	50	10.36	70.52	70.49	63	
	00000000	75	2.14	88.4	85.84	54	
	00000000	75	15.53	103.97	103.79	70	
	00000000	90	9.64	98.49	90.32	54	
	00000000	90	8.03	113.31	110.37	72	
	00000000	90	18.64	120.98	120.94	81.5	
	00000000	110	19.64	112.46	120.74	49	
	00000000	110	1.97	127.72	121.75	67	
	00000000	110	22.78	146.67	145.67	92.5	
	00000000	125	15.28	159.68	156.64	89	
	00000000	125	25.89	169.58	170.03	100	
00000000	160	2.22	185.82	174.3	78		
00000000	160	33.14	213.57	213.49	114		
S LINE BRANCH 87,5°							
	00000000	32	15.3	22.51	22.53	47.86	
	00000000	40	6.28	20	55.31	45.72	
	00000000	40	19.08	27.3	27.62	49.92	
	00000000	50	19.96	30.47	27.35	50.06	
	00000000	50	23.93	31.37	31.57	52.07	
	00000000	75	23.39	43.57	35.96	55.47	
	00000000	75	35.9	46.23	46.72	56.1	
	00000000	90	23.06	51.07	68.31	64.44	
	00000000	90	35.57	53.17	47.06	63.63	
	00000000	90	43.08	55.3	55.41	63.42	
	00000000	110	22.62	62.2	35.82	69.4	
	00000000	110	35.13	63.11	47.49	69.75	
	00000000	110	52.65	65.19	65.96	70.84	
	00000000	125	52.48	75.05	66.48	73.19	
	00000000	125	59.83	73.99	74.55	73.17	
	00000000	160	51.67	89.79	70.39	80.45	
00000000	160	76.58	98.97	98.44	80.42		
S LINE BRANCH 87,5°							
00000000	90/90	52.13	65.85	53	63.07		
00000000	110/90	49.89	77.35	53.42	74.9		
00000000	110/110	60.53	80.51	61.35	74.54		

DESCRIPTION	PICTURE	CODE	D	Z1	Z2	Z3	L1MIN
S LINE DOUBLE BRANCH 45°							
		00000000	50/50/50	25.25	48.4	25.25	54
		00000000	50/90/50	25.25	45	25.25	54
		00000000	50/110/50	25.25	55.45	25.25	49

S LINE DOUBLE BRANCH 87,5°							
		00000000	50/50/50	25.25	25	25.25	52.07
		00000000	50/110/50	25.25	55	25.25	68.64

S LINE INSPECTION BRANCH							
		00000000	50	25		31.46	51
		00000000	75	37.5		46.74	54.5
		00000000	90	46.44		55.83	62.06
		00000000	110	55		66.15	68.5
		00000000	125	62.5		75.53	70.5

DESCRIPTION	PICTURE	CODE	D	L	NAZIV	SLIKA	ŠIFRA	D	L
S LINE DOUBLE SOCKET		S LINE SLIP COUPLER							
		00000000	32.7	96.9			00000000	32.7	96.9
		00000000	40.7	104			00000000	40.7	104
		00000000	50.7	110			00000000	50.7	110
		00000000	76	119			00000000	76	119
		00000000	90	131			00000000	90	131
		00000000	111	147			00000000	111	147
	00000000	126	157		00000000	126	157		

DESCRIPTION	PICTURE	CODE	D	Z1	L1MIN	
S LINE EXCENTRIC REDUCER						
		00000000	40/32	15.19	54.88	
		00000000	50/32			
		00000000	50/40	17.32	57.88	
		00000000	75/50	20.94	62.26	
		00000000	90/40	19.17	71.16	
		00000000	90/50	16.34	70.36	
		00000000	90/75	19.1	71.54	
		00000000	110/50	16.89	76.81	
		00000000	110/75	19.79	77.54	
		00000000	125/100	19.03	82.63	
		00000000	160/110			
	00000000	160/125	22.94	92.09		