



# SLURRY PIPING SOLUTION



# WELCOME TO LOCS SLURRY PIPING SOLUTION

## New products

We develop and put on the production new products made of polyethylene. Thanks to technology and streamlined process, development of new products is cost-effective even for small shipments.

## European quality

Our team provides a full range of activities using advanced technological developments. This enables us to do all kinds of work with appropriate quality and provide customers with long-term guarantee for each type of work and ensure delivery stages according to the timetable.

## Warranty terms

We carefully plan the whole cycle of works necessary to ensure the effective organization of the process. Office supplies fully completing necessary production facilities and equipment, which allows us to carry out all stages of work for the customer agreed schedule. We are confident in the quality of its services. We always adhere to deadlines.



# POLYETHYLENE PIPES (HDPE)

## The advantages of polyethylene pipes

- » Polyethylene pipes operated much longer than iron, metal, or concrete pipe (term guarantee operation of polyethylene pipes is 50 years).
- » Polyethylene pipes do not corrode when exposed to water and various aggressive environments.
- » Polyethylene pipes are 3-4 times lighter than metal, iron and concrete pipes and couple times wearlessness.
- » Execution with flanges on sides gaskets bolts, washers and nuts in set.
- » Frozen water inside the polyethylene pipe does not damage it.



Here below, we summarize main PE pipe sizes used for slurry pippeling.

	SDR 26 (0,63 MPa)		SDR 21 (0,8 MPa)		SDR 17 (1,0 MPa)		SDR 11 (1,6 MPa)	
External diameter, mm	Wall thickness, mm	Weight, kg/m	Wall thickness, mm	Weight, kg/m	Wall thickness, mm	Weight, kg/m	Wall thickness, mm	Weight, kg/m
110	...	...	...	...	6,6	2,208	10	3,187
125	...	...	...	...	7,4	2,818	11,4	4,135
140	...	...	6,7	2,909	8,3	3,538	12,7	5,155
160	...	...	7,7	3,811	9,5	4,615	14,6	6,762
180	6,9	3,909	8,6	4,787	10,7	5,834	16,4	8,544
200	7,7	4,843	9,6	5,927	11,9	7,197	18,2	10,534
225	8,6	6,096	10,8	7,499	13,4	9,135	20,5	13,341
250	9,6	7,542	11,9	9,169	14,8	11,188	22,7	16,399
280	10,7	9,413	13,4	11,577	16,6	14,059	25,4	20,564
315	12,1	11,986	15	14,549	18,7	17,8	28,6	26,028
355	13,6	15,165	16,9	18,488	21,1	22,609	32,2	33,054
400	15,3	19,209	19,1	23,549	23,7	28,63	36,3	41,944
450	17,2	24,288	21,5	29,781	26,7	36,36	40,9	53,276
500	19,1	29,963	23,9	36,745	29,7	44,817	45,4	65,538
560	21,4	37,575	26,7	46,007	33,2	56,162	50,8	82,119
630	24,1	47,597	30	58,11	37,4	71,119	57,2	104,034

Other sizes possible on request.



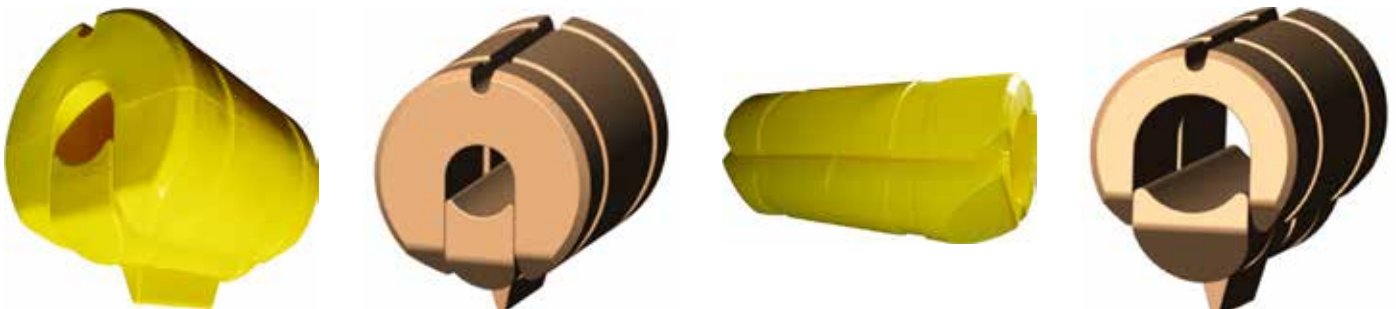


# PIPELINE FLOATERS

Pipeline floaters – a pipeline, used to transport slurry (a mixture of water and soil or rock, obtained by excavating and mining hydraulically) with hydraulic dredger equipment to the point of discharge.

Pipelines, used to transport slurry (a mixture of water and soil or rock, obtained by excavating and mining hydraulically) with dredger equipment to the point of discharge.

Purpose is floating pipeline to connect the working dredge to the shore slurry pipeline. The slurry pipeline allows operating maneuvers, supporting line structure for securing the supply and control cables etc. The installation and supporting of floating slurry pipelines is made on special floats, the number of which depends on the length of the pipeline, type of pipes, slurry and SG.



## Descripton

We produce polyethylene floats to maintain the pipe slurry pipeline on water. It is also possible to use our floats as floating bearing elements for any purpose. Operating temperature is from  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ , UV resistant.

Floats tightened by straps, belts or polypropylene strips, really simplified installation or removing.

The floater is made of polyethylene by rotational molding, hollow inside, but foam filling is possible at a client's request. Easy-to-use: easy, reliable, durable, and affordable.

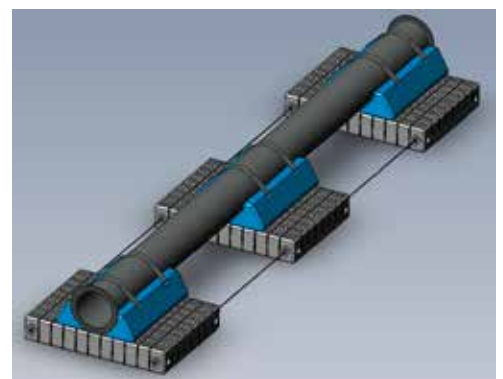
## Float accepts range of diameters

The float is designed in a way, that it accepts pipes of different diameters.

The pipe is placed into big part of float and than tightened by small part of float.

Therefore our range of floats for slurry pipeline can accept any tube with diameters 140-650 mm.

The whole construcion is fixed with the belt.





## Our foam filling technology:

- » EPS (Expanded Polystyrene) 25
- » Module maintains it's shape and is resistant to mechanical deformations
- » Compared to air-filled modules, our module retains floatation properties in case of hole



Type	L.inside, mm	L.outside, mm	Floatation, l	Length, mm	Weight, kg	Mount
Element of float 100-160	160	500	90 (60)	600	10	Belt
Element of float 180-280	280	500	140 (100)	1200	16	Belt
Element of float 200-280XL	280	600	250 (190)	1200	24	Belt
Element of float 300-400	400	940	610 (410)	1200	33	Belt
Element of float 400-650	650	1200	970 (650)	1250	70	Belt

\*The slurry pipeline is hollow inside, but foam filling is possible at a client's request.  
We ready to propose other sizes by your individual request.



# RUBBER SLURRY PIPES

The use of ultra-flexible pipelines helps to make possible and simplify the extraction of soil in inaccessible conditions of small reservoirs. The operation of flexible pipelines in the submersible pump provides a reduction in the prime cost of the ground as compared with the use of overall technology, ensuring maximum efficiency.

For the production of rubber pipelines, special types of materials are used, which make it possible to achieve super-fluidity. The design of the pipeline eliminates the formation of fractures during operation, ensuring the uninterrupted operation of the pump.



The rubber pipeline is an integral part of the dredger. Due to the flexibility of the pipeline, more soil is extracted, which allows the customer to get a great profit.

The pipeline consists of a rubber-fabric frame and reinforcing elements and is mounted on a vacuum line between the pump and the dredge frame. The pipeline is available in two versions: with an increased bend angle of  $90^\circ$  and a standard design with a bend angle of  $60^\circ$ .





## Specification

Dredging and industrial processes often required pipes with reduced bending radius. Using extra-flexible pipelines make customer installations mach easier. The sections of the extraflexible pipeline are produced of the wear-resistant rubber; the length of the pipeline is up to 11.8 m.

Inner diameter, mm	Standard length of the section, mm	Flange connecting size, mm / mm / pc	Working pressure, bar	Min bending radius, mm
159	11.8	240 / 22 / 8	10	1 590
200	11.8	295 / 22 / 8	10	2 000
219	11.8	325 / 22 / 8	10	2 190
245	11.8	350 / 22 / 12	10	2 450
273	11.8	370 / 22 / 12	10	2 730
300	11.8	450 / 26 /12	10	3 000
325	11.8	470 / 22 / 16	10	3 250
351	11.8	490 / 22 / 16	10	3 510
377	11.8	515 / 26 / 16	10	3 770
402	11.8	585 / 30 / 20	10	4 020
426	11.8	585 / 26 / 20	10	4 260
530	11.8	705 / 33 / 20	10	5 300
630	10	820 / 33 / 20	10	6 300

### MAIN TECHNICAL FEATURES:

Working pressure up to 2 MPa, the bending radius of pipeline up to ten diameters, working vacuum up to 0.09 MPa. The maximum length of per section is 10.0 m.

### PIPELINE CAN BE OPERATED

In the temperature range from -50° C to +80°C in operating environment: process water, acid and alkali diluted solutions, abrasive compound.

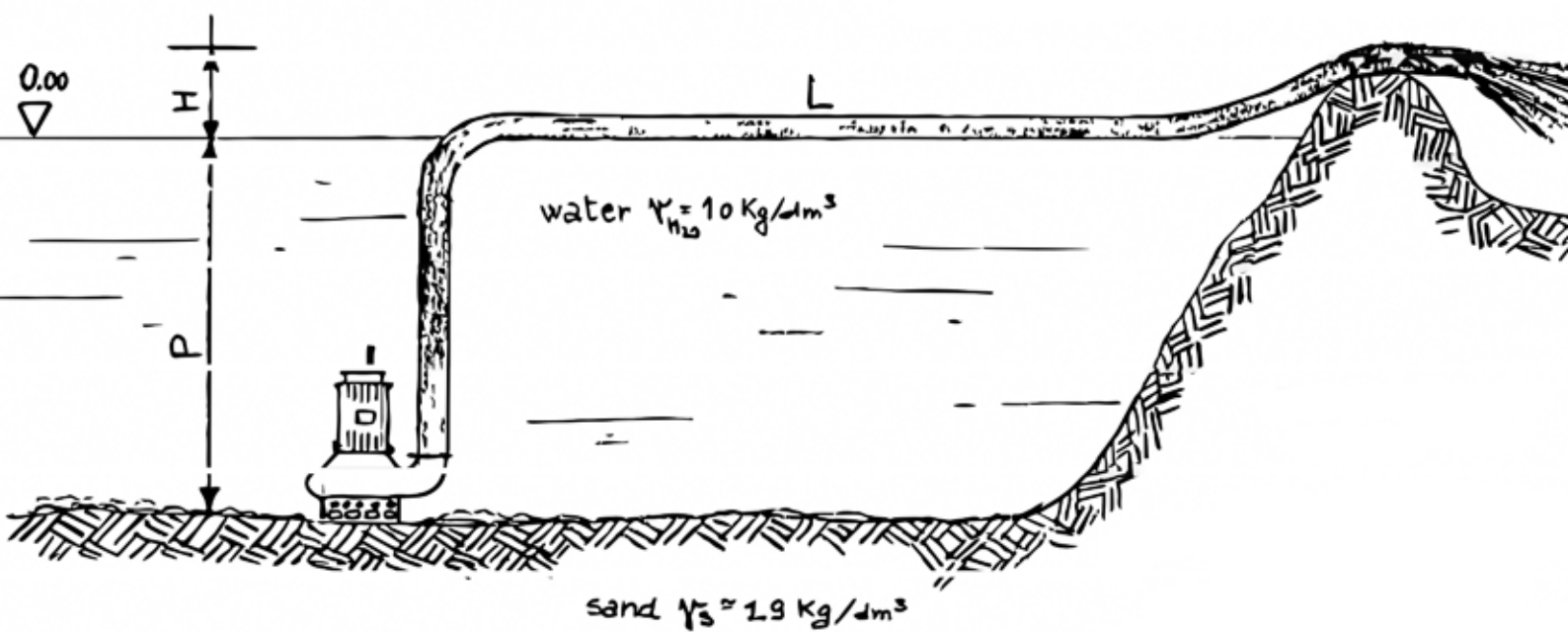
### PIPELINE CLASSIFICATION:

Pressure pipeline, pressure-suction pipeline, suction pipeline.

### PRODUCT LIFETIME

is ensured by wear-resistant inner layer, the compounds of which is depending on operating environment.





**Address:**

Za Poříčskou bránou 315/10  
186 00 Praha 8-Karlín  
Czechia

**Tel:** +420 (608) 609-194

**E-mail:** sales@locs.cz

**Site:** www.locs.cz