

Teknikum® Rubber Lined STEEL Y-BRANCHES 45°



APPLICATIONS

Rubber lined steel pipes are the best choice for pipelines where a need of inflexibility and permanent load bearing capacity of a pipe is critical. Such pipeline sections are often found in slurry process flows of concentrating plants for areas of junction to pumps, technological equipment (mills, separators, flotation cells, thickeners, filters, cyclones, classifiers), process tanks, flows separation in mining, cement industry and coal industry.

Teknikum rubber lining provides long life and wear protection for the pipes, while ensuring maximum capacity of material handling.

ADVANTAGES

- Great wear resistance of lining
- Very strong adhesion to steel
- Good strength values
- Low flow resistance
- Listed standard sizes and forms are available with quick delivery

- Retains the free flow area without turbulence at the couplings
- Pipe ends are vulcanized by rubber to eliminate leakages without the need of extra gaskets
- Delivery reliability – the used rubber compounds are developed and manufactured in-house by Teknikum

CUSTOMIZED SOLUTIONS

- Customized configurations of pipes and branches as well as complex technical solution are made by order
- Wide range of customized arrangements, typical range from DN50 mm up to DN 400 mm.
- Rubber lining with intermediate wear indication red layer is possible for visual wear indication.

LINING RUBBER

Teknikum WEAR SAFE™ Black 40 or 60

Natural rubber and butadiene rubber mixture based on black soft rubber, which is highly resistant to various abrasive slurries. This proven compound is used in mining environment, seawater applications and various process industry applications.

The hardness 40 ShA is great for abrasion resistance supported by excellent resilience to stand flexible surface for material flow.

The hardness 60 ShA is great for tear resistance supported by excellent resilience to stand flexible surface for material flow.

Developed for the mining industry, e.g. material transfer at concentration plants and tailings pipelines.

Autoclave vulcanization.

More details on compound datasheet.

Teknikum WEAR SAFE™ Red 40

Natural rubber and butadiene rubber mixture based on black soft rubber compound, which is highly resistant to various abrasive slurries used at mining environment and other process industry applications.

The hardness 40 ShA is great for abrasion resistance supported by excellent resilience to stand flexible surface for material flow.

Developed for the mining industry, e.g. material transfer at concentration plants and tailings pipelines. The red color allows use as visual wear indicator in case of two (2) layers of rubber lining is placed (black soft rubber lining on top).

Autoclave vulcanization.

More details on compound datasheet.

TECHNICAL PROPERTIES

Standard configuration includes:

- Flat flanges according to EN1092-1
- Steel: P235 JRG2
- Typical flange connection PN10
- Rubber lining elastomer:
 - Natural rubber and butadiene rubber (NR/BR)
 - Hardness 40 or 60 ShA
 - Color black (or red)
- Thickness of rubber lining:
 - 5 mm for pipes DN50-DN300, flanges 5mm
 - 10 mm from DN350 mm, flanges 5mm
- Body steel in accordance with P235TR1

- Surface treatment:
 - preparation grade Sa 2.5
 - painting system EP180/1
 - default color gray
- Mounting kit for flanges can be included into a scope
- Any other standards can be applied in the manufacturing according to customers' requirements

QUALITY & COMPLIANCE

The manufacturing quality control is based on ISO-9001 certified systems.

Teknikum rubber compounds do not contain any RoHS 2 controlled substances or phthalates and are compliant with REACH directive.

The compounds do not contain any substances named on the SVHC (Substances of Very High Concern) candidate list XIV of REACH.

MANUFACTURER

Teknikum Oy (Business ID FI07645274),
Nokiankatu 1, 38210, Sastamala, Finland

Sales & Marketing

Teknikum Group, Lining BU

More information

sales@teknikum.com

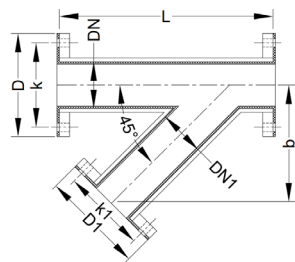
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ORDER REFERENCE: **RUBBER LINED STEEL Y-BRANCH 45° v1**

Rubber Lined Steel Y-branch 45° v1

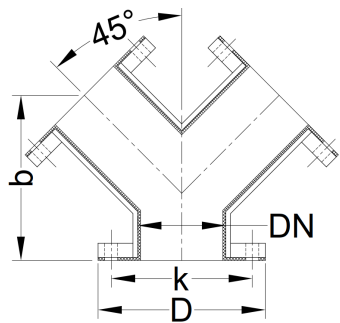


Product code	DN	DN1	k	k1	D	D1	b	L	s
LRLK050-050	50	50	125	125	165	165	105	190	5
LRLK080-080	80	80	145	145	200	200	156	270	5
LRLK100-050	100	50	180	125	220	165	200	340	5
LRLK100-100	100	100	180	180	220	220	200	340	5
LRLK125-050	125	50	210	125	250	165	246	420	5
LRLK125-125	125	125	210	210	250	250	246	420	5
LRLK150-080	150	80	240	145	285	200	294	500	5
LRLK150-150	150	150	240	240	285	285	294	500	5
LRLK200-080	200	80	295	145	340	200	383	650	5
LRLK200-200	200	200	295	295	340	340	383	650	5
LRLK250-080	250	80	350	145	395	200	477	800	5
LRLK250-250	250	250	350	350	395	395	477	800	5
LRLK300-100	300	100	400	180	445	220	566	965	5
LRLK300-300	300	300	400	400	445	445	566	965	5
LRLK350-100	350	100	460	180	505	220	662	1060	10/5
LRLK350-350	350	350	460	460	505	505	622	1060	10
LRLK400-100	400	100	515	180	565	220	710	1200	10/5
LRLK400-400	400	400	515	515	565	565	710	1200	10

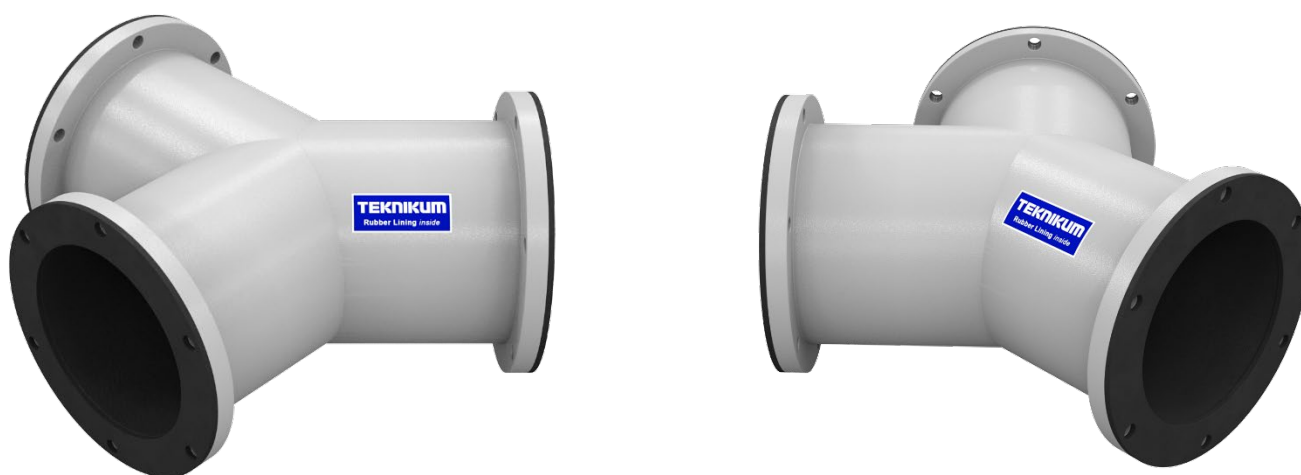
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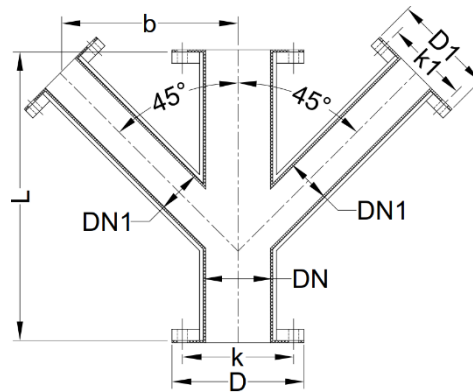
ORDER REFERENCE: **RUBBER LINED STEEL Y-BRANCH 45° v2**

Rubber Lined Steel Y-branch 45° v2						
	Product code	DN	k	D	b	s
	LRLY2-050	50	125	165	170	5
	LRLY2-080	80	145	200	190	5
	LRLY2-100	100	180	220	210	5
	LRLY2-125	125	210	250	245	5
	LRLY2-150	150	240	285	327	5
	LRLY2-200	200	295	340	360	5
	LRLY2-250	250	350	395	440	5
	LRLY2-300	300	400	445	509	5
	LRLY2-350	350	460	505	580	10
LRLY2-400	400	515	565	650	10	

REFERENCE IMAGES



ORDER REFERENCE: **RUBBER LINED STEEL Y-BRANCH 45° v3**



Rubber Lined Steel Y-branch 45° v3									
Product code	DN	DN1	k	k1	D	D1	b	L	s
LRLY1-050-050	50	50	125	125	165	165	105	500	5
LRLY1-080-080	80	80	145	145	200	200	156	500	5
LRLY1-100-050	100	50	180	125	220	165	200	550	5
LRLY1-100-100	100	100	180	180	220	220	200	550	5
LRLY1-125-050	125	50	210	125	250	165	246	580	5
LRLY1-125-125	125	125	210	210	250	250	246	580	5
LRLY1-150-080	150	80	240	145	285	200	294	610	5
LRLY1-150-150	150	150	240	240	285	285	294	610	5
LRLY1-200-080	200	80	295	145	340	200	383	610	5
LRLY1-200-200	200	200	295	295	340	340	383	610	5
LRLY1-250-080	250	80	350	145	395	200	477	610	5
LRLY1-250-250	250	250	350	350	395	395	477	610	5
LRLY1-300-100	300	100	400	180	445	220	566	750	5
LRLY1-300-300	300	300	400	400	445	445	566	750	5
LRLY1-350-100	350	100	460	180	505	220	662	750	10/5
LRLY1-350-350	350	350	460	460	505	505	622	750	10
LRLY1-400-100	400	100	515	180	565	220	710	810	10/5
LRLY1-400-400	400	400	515	515	565	565	710	810	10

REFERENCE IMAGES

