







SAFE SOLUTION IN THE STATE OF THE PROJECTION



Safe Protector

No.6, Chuangye Road, Niujiazhai Village, Changzhuang Town, Wei County, Xingtai City, Hebei, China

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SPIRAL GUARD CATALOGUE

www.safe-protector.com

Hebei Chuantai New Material Technology Co., Ltd.

COMPANY PROFILE



Safe Protector, that is, Hebei Chuantai New Material Technology Co., Ltd. focuses on cutting edge tech and develops world - leading products.

In hose protection, our deep tech base and constant innovation have led to major quality and performance leaps. Hydraulic hoses are vital for industrial operations.

A hose rupture not only causes serious safety issues but also halts operations, bringing huge economic losses. Our ECO and ARMOR series safe protectors are great for keeping hydraulic hoses running smoothly.

Using them, you and your clients can avoid high downtime costs. Tests show they can extend hose lifespan by up to 5 years. In harsh industrial settings like high - temp, high - press, or corrosive environments, hydraulic hoses face impacts and chemical attacks, shortening their use time.

But our top - tier hose protectors shield hose assemblies well. They can reduce damage risks even in the toughest conditions, cut failure chances, ensure long - term stable equipment operation, and boost industrial production efficiency.



COMPANY HISTORY

Our Safe Solution Safeguards Operations, Keeping Your Business Secure For Generations.



2002

Extend Product Line to Safe Protector

Revamp
Production
Methods And
Create R & D
Equipment

2025

SAFE PROTECTOR
Analyzed International
Market Demands And
Launched Three Targeted
Series: ECO, ARMOR, and BOW,
Catering To Diverse Global Needs



2013
SAFE PROTECTOR
RUBBER
PRODUCT
Established



2024
SAFE PROTECTOR
Established



CORPORATE



Innovation drives our creation of top - notch products for customers. Our elite R & D team, collaborating globally, tracks trends. We break design norms with customization. Our innovative products are forward -looking, saving time and boosting competitiveness, helping customers excel.



SAFE PROTECTOR adheres to the business philosophy of "Quality at the core, innovation as the engine, customers at the heart", treating quality as the enterprise's lifeline, exploring new technologies and processes, optimizing product designs, and offering personalized solutions.



SAFE

Guided by the principle of "Safe-100 years", SAFE PROTEC-TOR will be brave in innovation, enhance product performance, build a solid security line of defense, and create a century-long glory in the field of spiral protective sleeves.

VALUES AND PRINCIPLES



Safety First

Safety is our unwavering bottom line. We strive to offer customers an outstanding product experience in R & D, we invest heavily in safety tests and optimizations. This ensures products operate stably in complex conditions. Each product undergoes strict safety evaluations to rootout hazards, making safety the strong support for customers to enjoy top - notch products



Quality Core

Quality-focused, we craft premium products through partnerships with leading suppliers,advanced manufacturing, and rigorous testing. Key components undergo 100+ performance tests, ensuring reliability in extreme conditions. By exceeding industry standards, we consistently meet high-end customer demands.



Integrity Wins

Integrity drives our operations. We deliver high-quality products by partnering with suppliers to secure quality materials, while addressing feedback promptly to improve services. When issues arise, we provide immediate solutions and preventive guidance. This commitment to ethical practices fuels product refinement and builds lasting trust with all partners.



Innovation Drives

Innovation is the driving force behind our crafting of high - end products for customers. Our top - notch R & D team, collaborating on a global scale, keeps tabs on trends. We shatter design conventions through customization. Our innovative solutions are future - oriented, cutting down on time and enhancing competitiveness, thus enabling customers to stand out.





CORNER OF THE WORKSHOP



Our factory, occupying a space of 10,656 square meters, is outfitted with an extensive network of over 25 production lines.

With a laser - focused approach to manufacturing, we churn out 35,000,000 meters of diverse Safe Protectors yearly.

This substantial output equates to more than 200 40HQ containers dispatched per year, underscoring our position as a reliable and high - capacity producer in the industry.





Scale & Facilities





Scale:

The factory occupies a total area of 10,656 square meters, with the production workshop spanning 3500 square meters and the warehousing area covering 3000 square meters.

Comprising a workforce of 30 employees, the team is strategically structured: 3 dedicated professional R&D specialists, 20 skilled production technicians, 3 rigorous quality control experts, and 4 proficient after-sales & customer service representatives.

Functionally, the factory is meticulously zoned into distinct areas: raw material storage, production processing, finished product inspection, finished goods warehousing, and administrative offices. This well-planned spatial arrangement optimizes operational efficiency, ensuring seamless integration of production processes and maintaining the highest standards of product quality and delivery timeliness.

Facilities:

Equipment Types: Key production equipment comprises 25 Extruding Machines, 25 Setting Machines, 25 Auto-rotating Tractors, 25 Auto-winders, 4 Auto-mixers, 10 Cutting Machines, and 7 sets of testing equipment.

Automation: With 25 full - auto lines, 98% of the production process is automated, boosting efficiency, minimizing errors, and securing quality.









Production Process

We produce top - tier spiral protective sleeves with advanced tech and gear, strictly managing the whole production flow.



Raw Material Procurement: We carefully source high - grade PP and PE from renowned supplier, Sinopec Group. Each batch is thoroughly tested for density, melt flow rate, and mechanical properties. Only passing materials enter production.

Extrusion Molding: High - precision extruders heat - melt raw materials. Precise molds control extrusion speed and temp, making smooth, thin strips. An advanced temp - control system ensures even strip thickness.

Hot - state Winding and Shaping Mold: Our self - made shaping mold precisely controls angle, outer diameter, pitch, and tension. Temp and pressure work together for a flexible, resilient spiral.

Cooling: Wound semi - products are evenly cooled by a circulating water system. Optimized cooling time and speed prevent deformation and shrinkage, keeping dimensional accuracy.

Cutting: As per customer needs, high - precision cutters trim cooled sleeves to the set length. The cut surface is smooth, ensuring good looks and top - notch performance.

Quality Inspection Standards

We strictly follow international and domestic standards. Complying with ROHS, our products are eco - friendly and toxin - free. The ISO 9001 quality management system is applied for full - process control from raw materials to finished goods. Our in - house standards surpass industry averages. For appearance, safe protectors must have a smooth surface, free of material shortages, cracks, bubbles, impurities, with consistent color. Hardness is set at 60 - 70 Shore Hardness (LX - D). In the high/low - temperature test, products endure 80°C for 1 h, room temp for 0.5 h, - 50°C for 1 h, and room temp for 0.5 h in 5 continuous cycles, with no cracking, stickiness, or dents.

Appearance Inspection: Trained inspectors use high - precision optical devices for a full - surface scan, complemented by visual checks to spot any minor defects.

Performance Test: A hardness tester measures product hardness precisely. A tensile testing machine simulates various working conditions to test tensile and impact strength.

SAFE PROTECTORS

Our Safe Protectors are produced by extrusion from PP,HDPE,LDPE,PVC, offering robust protection under harsh operating conditions. Designed to safeguard hose assemblies, it effectively guards against abrasion and cuts. Additionally, it minimizes hose kinking, ensuring optimal performance and longevity of the hoses.



Raw Material Inspection System



After-sale System



In-line Production
Inspection System



Packaging Inspection System

Seven Systems of Product Quality Control



Control System



Finished Product Inspection System



Quality
Traceability System

Raw Material Areas & Finished Products Warehouses





09



ENTERPRISE QUALIFICATION

Precise Layout and Full-domain Penetration

Precise Need Grasping: Chuantai analyzes market demands through research and feedback. Automakers seek flexible, lightweight sleeves while miners need durable, sturdy ones.

Product Line Expansion : We offer diverse products: wear-resistant polyurethane and heat-resistant silicone sleeves, various sizes for all pipes, and specialized flame-retardant and anti-staticoptions. Our Bow, Eco, and Armor series meets pecific industry needs with optimal protection

China International Coal Mining Technology and Equipment Exhibition: We actively join the biennial China International Coal Mining Technology and Equipment Exhibition. Through exploring product sectors like coal - mine production, transportation, electromechanical equipment, and emergency rescue gear, we look for cooperation opportunities on spiral protective sleeves.

Bauma EXHIBITION

We actively participate in bauma CHINA, abiennial event also known as the Shanghai International Construction & Mining Machinery Exhibition. This highly influential exhibition matters a great deal to us. Through this platform, we regularly show our latest products, interact with industry peers, and explore new business opportunities.







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PRODUCTS CONTENT

SAFE PROTECTORS

ECO SERIES								
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ARMOR SERIES								
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BOW SERIES								
BOWAPPLICATIONS				 	 	 	· - ·	 43 45
BOW PRO SERIES								
BOW PROAPPLICATIONS								 49 51
CUSTOMIZED SAFE PR	ROTECTOR SE	RIE	S					
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FIRE SLEEVES								
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OUR TEAM



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SAFE PROTECTORS SERIES

Our Safe Protectors are produced by extrusion from High Density Polyethylene or Polypropylene, offering robust protection under harsh operating conditions. Designed to safeguard hose assemblies, it effectively guards against abrasion and cuts. Additionally, it minimizes hose kinking, ensuring optimal performance and longevity of the hoses.

ECO SERIES











Superior material

Safe and durable

Environmental protection

The ECO variant has a 1.0 - mm minimum wall thickness. It is lightweight, compact, space - efficient, and cost - effective. Ideal for light - duty cable protection in indoor electronics and in weight/space - sensitive equipment.

The ECO Pro variant, with a 1.2 - mm minimum wall thickness, offers robust structural strength, moderate protection, and high cost - effectiveness. Suited for cable protection in industrial automation lines and internal pipeline safeguarding in general mechanical equipment.

The ECO Pro Max variant, featuring a 1.5 - mm minimum wall thickness, provides outstanding protection. It has excellent impact, wear, and corrosion resistance. Used for cable and pipeline protection in mining and heavy - machinery, and for facility protection in harsh outdoor environments.

ECO VS ECO Pro VS ECO Pro Max

Type Name	Minimum Wall Thickness	Advantages and Characteristics	Typical Application Scenarios
ECO	1.0mm	Lightweight, compact, occupying less space, and relatively low cost	Light protection for cables inside indoor electronic devices, cable protection for lightweight devices sensitive to space and weight
ECO Pro	1.2mm	Good structural strength, with medium protection ability, high cost-effectiveness	Cable protection in industrial automation production lines, protection of internal pipelines of general mechanical equipment
ECO Pro Max	1.5mm	Excellent protection performance, strong in impact resistance, wear resistance, and corrosion resistance	Cable protection for mining equipment, pipeline protection in heavy machinery manufacturing, protection of facilities in harsh outdoor environments



ECO-TYPE

1

DESCRIPTION:

The safe protector is a flexible casing for organizing, protecting and isolating cables, hoses or pipes, widely used in construction machinery, automotive, electronics, machinery and other industries.

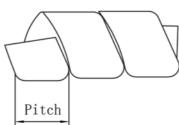
PROPERTIES:

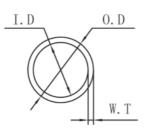
- Material: Modified PP, HDPE, LDPE, PVC
- Temperature Range: -50 °C TO 100 °C
- Standard colors: black, yellow, red. Other colors can be customized
- Available sizes: outer diameter 8MM 212MM.
- Customization: Customizable length, easy installation, recyclable.

CHARACTERISTICS:

- Cold-resistant: -50 ℃
- Heat-resistant: 100℃
- UV aging-resistant
- Eco-friendly materials, no harmful substances
- Abrasion/acid-alkali/corrosion-resistant
- Sleek appearance, smooth inner wall, 360° full protection







Product Display

Cross-section _____

	SAFE PROTECTOR_FLAT SURFACE Factory Code Dimensions Hose Dimensions													
F	actory Code					Di	imensi	ons					Hose D	imensions
No.	Product Code	0	.D	1.	D	٧	V.T	Pit	tch	Hose Usage Range	Hose OD	Hose	Size	Hose Execution Standard
		mm	inch	mm	inch	mm	inch	mm	inch	mm	mm	mm	inch	
1	ECO-D11T01W95	11	0.43	9	0.35	1.0	0.039	9.5	0.37	10-13	13	6	1/4"	EN853 1SN
_	200 5111011100		0.10	ŭ	0.00	1.0	0.000	0.0	0.01	10 10	13	6	1/4"	SUPER 2SNK/2SC+
											15	6	1/4"	EN853 2SN
											15	8	5/16"	EN853 1SN
2	ECO-D15T01W12	15	0.59	13	0.51	1.0	0.039	12	0.47	14-17	15	8	5/16"	SUPER 2SNK/2SC+
-											16	8	5/16"	EN853 2SN
											17	10	3/8"	EN853 1SN
											17	10	3/8"	SUPER 2SNK/2SC+
											19	10	3/8"	EN853 2SN
3	ECO-D19T14W15	18.8	0.74	16	0.63	1.4	0.055	14.5	0.57	17-21	20	13	1/2"	EN853 1SN
											21	13	1/2"	SUPER 2SNK/2SC+
											22	10	3/8"	EN856 4SP
											22	13	1/2"	EN853 2SN
											24	13	1/2"	EN856 4SP
4	ECO-D24T18W18	24.2	0.95	20.6	0.81	1.8	0.071	18	0.71	22-27	24	16	5/8"	EN853 1SN
											24	16	5/8"	SUPER 2SNK/2SC+
											25	16	5/8"	EN853 2SN
											27	16	5/8"	EN856 4SP
											28	19	3/4"	EN853 1SN
	ECO-D31T19W23										29	19	3/4"	SUPER 2SNK/2SC+
											29	19	3/4"	EN853 2SN
5		30.8	1.21	27	1.06	1.9	0.075	22.5	0.89	28-35	31	32	1.1/4"	SAE R15
											31	19	3/4"	EN856 4SP
											31	19	3/4"	EN856 4SH
											35	25	1"	EN853 1SN
											36	25	1"	SUPER 2SNK/2SC+
											37	25	1"	EN853 2SN
6	ECO-D38T02W24	38.4	1.51	34.4	1.35	2.0	0.079	24	0.94	36-45	39	25	1"	EN856 4SP
ľ	200-2001024724	50.4	1.51	54.4	1.00	2.0	0.073	24	0.54	30-43	39	25	1"	EN856 4SH
											39	38	1.1/2"	SAE R15
											43	32	1.1/4"	EN853 1SN
											46	32	1.1/4"	EN856 4SH
											47	32	1.1/4"	EN853 2SN
7	ECO-D50T03W25	49.6	1.95	43.6	1.72	3.0	0.118	25	0.98	46-56	50	38	1.1/2"	EN853 1SN
'	200-2001004425	45.0	1.55	40.0	1.72	0.0	0.110	25	0.50	40-30	51	32	1.1/4"	SAE R15
											53	38	1.1/2"	EN856 4SH
											53	38	1.1/2"	EN853 2SN
											58	38	1.1/2"	SAE R15
8	ECO-D62T03W27	62	2.44	56	2.20	3.0	0.118	27	1.06	57-67	63	51	2"	EN853 1SN
ਁ	230 2021001121	J2	2.44		2.20	0.0	0.110		1.00	5, -5,	66	51	2"	EN856 4SH
											67	51	2"	EN853 2SN
9	ECO-D72T03W27	72	2.83	66	2.60	_	0.118	_	1.04	68-81	71	51	2"	SAE R15
10	ECO-D89T04W41	89	3.50	81	3.19	-	0.157	40.5	-	82-100				
11	ECO-D109T45W45		4.29	100	3.94	4.5	0.177	45	1.77	101-114				
-	ECO-D123T45W45		4.84	114	4.49	_	0.177	45	1.77	115-127				
13	ECO-D137T05W45		5.39	127	5.00		0.197	45	1.77	127-145				
14	ECO-D140T05W45	_	5.51	130	5.12	5.0	0.197	45	1.77	130-150				
15	ECO-D161T55W48		6.34	150	5.91	5.5	0.217	48	1.89	150-200				
16	ECO-D211T55W50	211	8.31	200	7.87	5.5	0.217	50	1.97	200-300				



ECO-TYPE PRO

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DESCRIPTION:

The ECO-TYPE PRO features a tool-free installation design, allowing users to assemble and secure it effortlessly by hand. Its intuitive winding mechanism ensures quick and hassle-free setup without the need for additional tools. Designed for versatility, it can be easily disassembled and reinstalled multiple times, offering full reusability. This user-friendly approach not only simplifies the installation process but also enhances convenience for adjustments, relocation, or storage—making it ideal for both temporary and permanent applications.

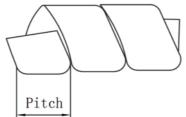
PROPERTIES:

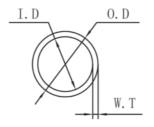
- Material: Modified PP, HDPE, LDPE, PVC
- Temperature Range: -50 °C TO 100 °C
- Standard colors: black, yellow, red. Other colors can be customized.
- Available sizes: outer diameter 8MM 212MM.
- Customization: Customizable length, easy installation, recyclable.

CHARACTERISTICS:

- Cold-resistant: -50 ℃
- Heat-resistant: 100 ℃
- UV aging-resistant
- Eco-friendly materials, no harmful substances
- Abrasion/acid-alkali/corrosion-resistant
- Sleek appearance, smooth inner wall, 360° full protection







Product Display

Cross-section _____

	SAFE PROTECTOR_FLAT SURFACE Factory Code Dimensions Hose Dimensions													
F	Factory Code					D	imensi	ons				H	lose Di	mensions
No.	Product Code	0	.D	l.	D	٧	V.T	Pi	tch	Hose Usage Range	Hose OD	Hose	Size	Hose Execution Standard
		mm	inch	mm	inch	mm	inch	mm	inch	mm	mm	mm	inch	
1	ECP-D11T12W95	11.4	0.45	9	0.35	1.2	0.047	9.5	0.374	10-13	13	6	1/4"	EN853 1SN
	LOI DIITIZWOO	11.4	0.40	Ŭ	0.00	1.2	0.041	0.0	0.014	10 10	10	6	1/4"	SUPER 2SNK/2SC+
											15	6	1/4"	EN853 2SN
											15	8	5/16"	EN853 1SN
2	ECP-D15T12W12	15.4	0.61	13	0.51	1.2	0.047	12	0.472	14-17	15	8	5/16"	SUPER 2SNK/2SC+
-	201 220122112	20.1	0.01	10	0.01		0.0 11		0.112		16	8	5/16"	EN853 2SN
											17	10	3/8"	EN853 1SN
											17	10	3/8"	SUPER 2SNK/2SC+
											19	10	3/8"	EN853 2SN
3	ECP-D19T15W15	19	0.75	16	0.63	1.5	0.059	14.5	0.571	17-21	20	13	1/2"	EN853 1SN
											21	13	1/2"	SUPER 2SNK/2SC+
											22	10	3/8"	EN856 4SP
											22	13	1/2"	EN853 2SN
											24	13	1/2"	EN856 4SP
4	ECP-D25T02W18	24.6	0.97	20.6	0.81	2.0	0.079	18	0.709	22-27	24	16	5/8"	EN853 1SN
											24	16	5/8"	SUPER 2SNK/2SC+
											25		5/8"	EN853 2SN
											27	16	5/8"	EN856 4SP
											28	19	3/4"	EN853 1SN
											29	19	3/4"	SUPER 2SNK/2SC+
	FOR DO4T0014/00										29	19	3/4"	EN853 2SN
5	ECP-D31T02W23	31	1.22	27	1.06	2.0	0.079	22.5	0.886	28-35	31	32	1.1/4"	SAE R15
											31	19	3/4"	EN856 4SP
											31	19	3/4"	EN856 4SH
											35	25	1"	EN853 1SN
											36	25	1"	SUPER 2SNK/2SC+
											37	25	1"	EN853 2SN
6	ECP-D39T25W24	39.4	1.55	34.4	1.35	2.5	0.098	24	0.945	36-45	39	25	1"	EN856 4SP
O	LOI -D03123W24	00.4	1.55	04.4	1.00	2.5	0.000		0.545	00-43	39	25	1"	EN856 4SH
											39	38	1.1/2"	SAE R15
											43	32	1.1/4"	EN853 1SN
											46	32	1.1/4"	EN856 4SH
											47	32	1.1/4"	EN853 2SN
7	ECP-D50T31W25	49.8	1.96	43.6	1.72	3.1	0.122	25	0.984	46-56	50	38	1.1/2"	EN853 1SN
	201 2001011120	40.0	1.00	10.0	1	0.1	0.122		0.004	40 00	51	32	1.1/4"	SAE R15
											53	_	1.1/2"	EN856 4SH
											53	38	1.1/2"	EN853 2SN
											58	38	1.1/2"	SAE R15
8	ECP-D62T31W27	62 2	2.45	56	2.20	3.1	0.122	27	1.063	57-67	63	51	2"	EN853 1SN
0	201 -2021014421	02.2	2.45	30	2.20	0.1	0.122		1.003	57.507	66	51	2"	EN856 4SH
											67	51	2"	EN853 2SN
9	ECP-D73T35W27	_	2.87	66	2.60		0.138	_	1.043	68-81	71	51	2"	SAE R15
10	ECP-D89T42W41	_	3.52	81	3.19	_	0.165	_	1.594	82-100				
11	ECP-D109T47W45	_	4.31	100	3.94	_	0.185	_	1.772	101-114				
12	ECP-D124T05W45	-	4.88	114	4.49	_	0.197	_	1.772	115-127				
13	ECP-D137T52W45		5.41	127	5.00		0.205	_	1.772	127-145				
14	ECP-D140T52W45	_	5.53	130	5.12	_	0.205	_	1.772	130-150				
15	ECP-D161T55W48		6.34	150	5.91	_	0.217	_	1.890	150-200				
16	ECP-D211T55W50	211	8.31	200	7.87	5.5	0.217	50	1.969	200-300				



ECO-TYPE-PRO MAX

3

DESCRIPTION:

With universal protection features, constructed from medium-wear-resistant thickened materials, and specifically designed for harsh environments (e.g., construction machinery, mining equipment).

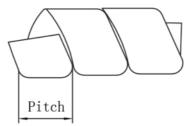
PROPERTIES:

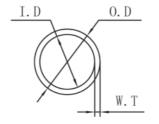
- Material: Modified PP, HDPE, LDPE, PVC
- Temperature Range: -50 °C TO 100 °C
- Standard colors: black, yellow, red. Other colors can be customized.
- Available sizes: outer diameter 8MM 212MM.
- Customization: Customizable length, easy installation, recyclable.

CHARACTERISTICS:

- Cold-resistant: -50 °C
- Heat-resistant: 100 ℃
- UV aging-resistant
- Eco-friendly materials, no harmful substances
- Abrasion/acid-alkali/corrosion-resistant
- Sleek appearance, smooth inner wall, 360° full protection







Product Display

Cross-section _____

	SAFE PROTECTOR_FLAT SURFACE Factory Code Dimensions Hose Dimensions														
	Factory Code					D	imensi	ons				H	lose Di	mensions	
No.	Product Code	0	.D	1.	D	١	V.T	Pi	tch	Hose Usage Range	Hose OD	Hose	Size	Hose Execution Standard	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	mm	mm	inch		
1	ECP-D12T15W95	12	0.47	9	0.35	1.5	0.059	9.5	0.374	10-13	13	6	1/4"	EN853 1SN	
			U	Ů	0.00	2.0	0.000	0.0	0.01	20 20	13	6	1/4"	SUPER 2SNK/2SC+	
											15	6	1/4"	EN853 2SN	
											15	8	5/16"	EN853 1SN	
2	ECP-D16T15W12	16	0.63	13	0.51	1.5	0.059	12	0.472	14-17	15	8	5/16"	SUPER 2SNK/2SC+	
											16	8	5/16"	EN853 2SN	
											17	10	3/8"	EN853 1SN	
											17	10	3/8"	SUPER 2SNK/2SC+	
										47.04	19	10	3/8"	EN853 2SN	
3	ECP-D20T02W15	20	0.79	16	0.63	2.0	0.079	14.5	0.571	17-21	20	13	1/2"	EN853 1SN	
											21	13	1/2"	SUPER 2SNK/2SC+	
											22	10	3/8"	EN856 4SP	
											22	13	1/2"	EN853 2SN	
								١			24	13	1/2"	EN856 4SP	
4	ECP-D25T22W18	25	0.98	20.6	0.81	2.2	0.087	18	0.709	22-27	24	16	5/8"	EN853 1SN	
											24	16	5/8"	SUPER 2SNK/2SC+	
											25	16	5/8"	EN853 2SN	
											27	16	5/8"	EN856 4SP	
											28	19	3/4"	EN853 1SN	
	ECP-D32T25W22										29	19	3/4"	SUPER 2SNK/2SC+	
_											29	19	3/4"	EN853 2SN	
5		32	1.26	27	1.06	2.5	0.098	22	0.866	28-35	31	32	1.1/4"	SAE R15	
											31	19	3/4"	EN856 4SP	
											31	19	3/4"	EN856 4SH	
											35	25	1"	EN853 1SN	
											36	25	1"	SUPER 2SNK/2SC+	
											37	25	1"	EN853 2SN	
6	ECP-D40T28W24	40	1.57	34.4	1.35	2.8	0.110	24	0.945	36-45	39	25	1"	EN856 4SP	
											39	25	1"	EN856 4SH	
											39	38	1.1/2"	SAE R15	
											43	32	1.1/4"	EN853 1SN	
											46	32	1.1/4"	EN856 4SH	
											47	32	1.1/4"	EN853 2SN	
7	ECP-D50T32W25	50	1.97	43.6	1.72	3.2	0.126	25	0.984	46-56	50	38	1.1/2"	EN853 1SN	
											51	32	1.1/4"	SAE R15	
											53		1.1/2"	EN856 4SH	
											53	38	1.1/2"	EN853 2SN	
											58	38	1.1/2"	SAE R15	
8	ECP-D63T35W27	63	2.48	56	2.20	3.5	0.138	27	1.063	57-67	63	51	2"	EN853 1SN	
											66	51	2"	EN856 4SH	
											67	51	2"	EN853 2SN	
9	ECP-D75T45W27	75	2.95	66	2.60	_	0.177		1.043	68-81	71	51	2"	SAE R15	
10	ECP-D90T45W41	90	3.54	81	3.19	_	0.177	_	1.594	82-100					
11	ECP-D110T05W45		4.33	_	3.94	_	0.197	_	1.772	101-114					
12	ECP-D125T55W45	125	4.92	114	4.49	_	0.217	45	1.772	115-127					
13	ECP-D138T55W45		5.43	127	5.00		0.217	_	1.772	127-145					
14	ECP-D141T55W48	141	5.55	130	5.12	_	0.217	48	1.890	130-150					
15	ECP-D161T55W48		6.34	_	5.91	_	0.217	_	1.890	150-200					
16	ECP-D211T55W50	211	8.31	200	7.87	5.5	0.217	50	1.969	200-300					



CASE PRESENTATION

Our Safe Protectors are produced by extrusion from High Density Polyethylene or Polypropylene, offering robust protection under harsh operating conditions. Designed to safeguard hose assemblies, it effectively guards against abrasion and cuts. Additionally, it minimizes hose kinking, ensuring optimal performance and longevity of the hoses.

Wide Range

High Security

✓ Good Material

▼ Environmental Protection

VIEW MORE+







SAFE PROJECTOR

SAFE PROTECTORS SERIES

Our Safe Protectors are produced by extrusion from High Density Polyethylene or Polypropylene, offering robust protection under harsh operating conditions. Designed to safeguard hose assemblies, it effectively guards against abrasion and cuts. Additionally, it minimizes hose kinking, ensuring optimal performance and longevity of the hoses.

ARMOR SERIES











Superior material

Safe and durable

Environmental protection

ARMOR, with a 1.1mm minimum wall thickness and 10mm minimum width, is lightweight and offers medium - level protection. It's ideal for protecting internal cables of office equipment and wiring of light industrial gear.

ARMOR Pro, at 1.3mm minimum wall thickness and 10mm minimum width, has higher structural strength and superior protection. It suits cable protection in automated industrial lines, workshop wiring, and general industrial equipment.

IRON - MAN, with a 1.6mm minimum wall thickness and 11mm minimum width, excels in protection, being impact, wear, and corrosion - resistant. It's for cable protection in mining equipment and wiring in heavy - machinery work environments.

ARMOR VS ARMOR Pro VS IRON-MAN

Type Name	Minimum Wall Thickness	Minimum Width	Advantages and Characteristics	Typical Application Scenarios
ARMOR	1.1mm	10mm	Lightweight, with medium - level protection ability	Protection of internal cables in ordinary office equipment, protection of wiring in light industrial equipment
ARMOR Pro	1.3mm	10mm	Higher structural strength, better protection performance	Cable protection in automated production lines of industrial workshops, protection of wiring in general industrial equipment
IRON-MAN	1.6mm	11mm	Excellent protection performance, strong in impact resistance, wear resistance, and corrosion resistance	Cable protection in mining equipment, protection of wiring in heavy - machinery working environments



ARMOR

1

DESCRIPTION:

When hydraulic hoses pass through the excavator's undercarriage, the safe protector acts as contoured scale armor, using tech to fulfill a millennial protective role.

PROPERTIES:

- Material: Modified PP, HDPE, LDPE, PVC
- Temperature Range: -50 ℃ TO 100 ℃
- Standard colors: black, yellow, red. Other colors can be customized.
- Available sizes: outer diameter 8MM 212MM.
- Customization: Customizable length, easy installation, recyclable.

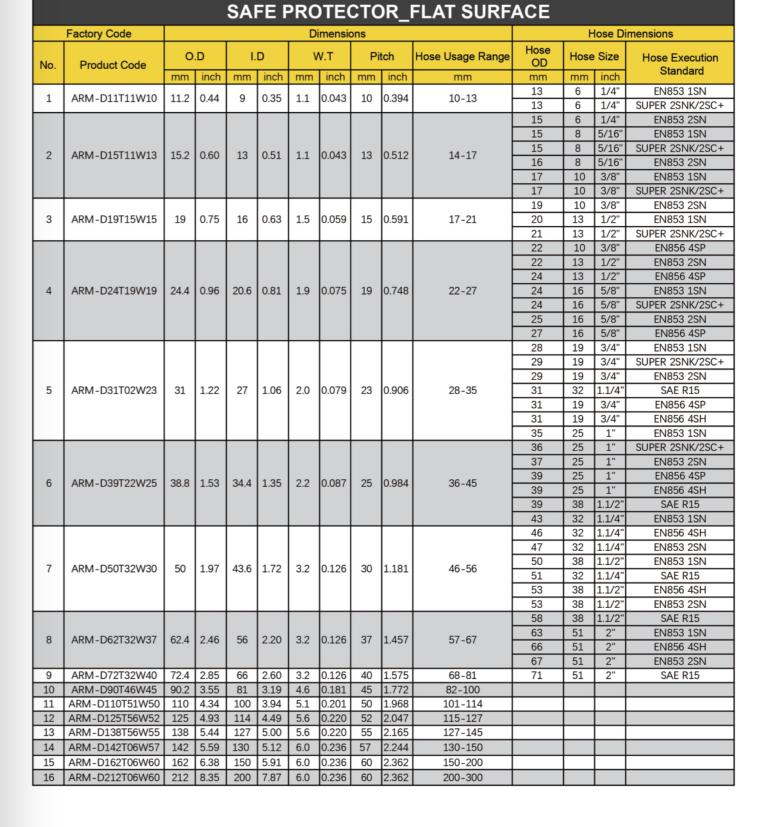
CHARACTERISTICS:

- Cold-resistant: -50 ℃
- Heat-resistant: 100 ℃
- UV aging-resistant
- Eco-friendly materials, no harmful substances
- Abrasion/acid-alkali/corrosion-resistant
- Sleek appearance, smooth inner wall, 360° full protection





Cross-section





ARMOR-PRO

2

DESCRIPTION:

The elastic spiral structure flexes with hydraulic hoses, preventing external wear. Wrapping the pipeline with hundreds of segments, the safe protector achieves a rigid-flexible envelope for balanced protection.

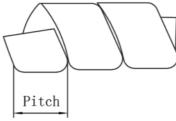
PROPERTIES:

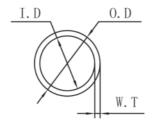
- Material: Modified PP, HDPE, LDPE, PVC
- Temperature Range: -50 °C TO 100 °C
- Standard colors: black, yellow, red. Other colors can be customized.
- Available sizes: outer diameter 8MM 212MM.
- Customization: Customizable length, easy installation, recyclable.

CHARACTERISTICS:

- Cold-resistant: -50 ℃
- Heat-resistant: 100 ℃
- UV aging-resistant
- Eco-friendly materials, no harmful substances
- Abrasion/acid-alkali/corrosion-resistant
- Sleek appearance, smooth inner wall, 360° full protection







Product Display

Cross-section

	SAFE PROTECTOR_FLAT SURFACE Factory Code Dimensions Hose Dimensions													
F	Factory Code					Di	imensi	ons				H	lose Di	mensions
No.	Product Code	0	.D	I.	D	٧	V.T	Pi	tch	Hose Usage Range	Hose OD	Hose	Size	Hose Execution Standard
		mm	inch	mm	inch	mm	inch	mm	inch	mm	mm	mm	inch	Staridard
1	ARP-D12T13W10	11.6	0.46	9	0.35	1.3	0.051	10	0.394	10-13	13	6	1/4"	EN853 1SN
_	71111 5121101110	11.0	0.10	Ů	0.00	1.0	0.001	10	0.00 1	10 10	13	6	1/4"	SUPER 2SNK/2SC+
											15	6	1/4"	EN853 2SN
											15	8	5/16"	EN853 1SN
2	ARP-D16T14W13	15.8	0.62	13	0.51	1.4	0.055	13	0.512	14-17	15	8	5/16"	SUPER 2SNK/2SC+
			0.02						0.0		16	8	5/16"	EN853 2SN
											17	10	3/8"	EN853 1SN
											17	10	3/8"	SUPER 2SNK/2SC+
											19	10	3/8"	EN853 2SN
3	ARP-D20T02W15	20	0.79	16	0.63	2	0.079	15	0.591	17-21	20	13	1/2"	EN853 1SN
											21	13	1/2"	SUPER 2SNK/2SC+
											22	10	3/8"	EN856 4SP
											22	13	1/2"	EN853 2SN
											24	13	1/2"	EN856 4SP
4	ARP-D25T22W19	25	0.98	20.6	0.81	2.2	0.087	19	0.748	22-27	24	16	5/8"	EN853 1SN
											24	16	5/8"	SUPER 2SNK/2SC+
											25	16	5/8"	EN853 2SN
											27	16	5/8"	EN856 4SP
											28	19	3/4"	EN853 1SN
											29	19	3/4"	SUPER 2SNK/2SC+
	ARP-D32T25W23										29	19	3/4"	EN853 2SN
5		32	1.26	27	1.06	2.5	0.098	23	0.906	28-35	31	32	1.1/4"	SAE R15
											31	19	3/4"	EN856 4SP
											31	19	3/4"	EN856 4SH
											35	25	1"	EN853 1SN
											36	25	1"	SUPER 2SNK/2SC+
											37	25	1"	EN853 2SN
6	ARP-D40T28W25	40	1.57	34.4	1.35	2.8	0.110	25	0.984	36-45	39	25	1"	EN856 4SP
	744 5461264126	10	1.07	0 1.1	1.00	2.0	0.110		0.00		39	25	1"	EN856 4SH
											39	38	1.1/2"	SAE R15
											43	32	1.1/4"	EN853 1SN
											46	32	1.1/4"	EN856 4SH
											47	32	1.1/4"	EN853 2SN
7	ARP-D50T34W30	50.4	1.98	43.6	1.72	3.4	0.134	30	1.181	46-56	50	38	1.1/2"	EN853 1SN
	7							••			51	32	1.1/4"	SAE R15
											53	_	1.1/2"	EN856 4SH
											53	38	1.1/2"	EN853 2SN
											58	38	1.1/2"	SAE R15
8	ARP-D63T37W37	63.4	2.50	56	2.20	3.7	0.146	37	1.457	57-67	63	51	2"	EN853 1SN
	300.311101							-		J. J.	66	51	2"	EN856 4SH
											67	51	2"	EN853 2SN
9	ARP-D75T45W40	75	2.95	66	2.60		0.177	_	1.575	68-81	71	51	2"	SAE R15
10	ARP-D91T49W45		3.57	81	3.19		0.193	_	1.772	82-100				
11	ARP-D111T55W50		4.37	100	3.94	_	0.217	50	1.968	101-114				
12	ARP-D125T57W52		4.94	114	4.49		0.224	52	2.047	115-127				
13	ARP-D139T06W55		5.47	127	5.00	6	0.236	55	2.165	127-145				
14	ARP-D142T62W57	142	5.61	130	5.12		0.244	57	2.244	130-150				
15	ARP-D162T62W60	_	6.39	150	5.91	_	0.244	60	2.362	150-200				
16	ARP-D212T62W60	212	8.36	200	7.87	6.2	0.244	60	2.362	200-300				



IRON-MAN

3

DESCRIPTION:

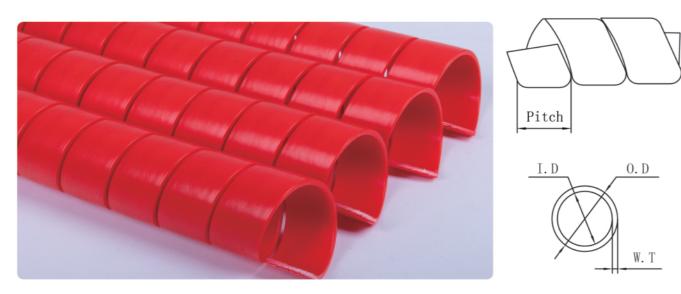
The elastic spiral structure flexes with hydraulic hoses, preventing external wear. Wrapping the pipeline with hundreds of segments, the safe protector achieves a rigid-flexible envelope for balanced protection.

PROPERTIES:

- Material: Modified PP, HDPE, LDPE, PVC
- Temperature Range: -50 ℃ TO 100 ℃
- Standard colors: black, yellow, red. Other colors can be customized.
- Available sizes: outer diameter 8MM 212MM.
- Customization: Customizable length, easy installation, recyclable.

CHARACTERISTICS:

- Cold-resistant: -50 ℃
- Heat-resistant: 100 ℃
- UV aging-resistant
- Eco-friendly materials, no harmful substances
- Abrasion/acid-alkali/corrosion-resistant
- Sleek appearance, smooth inner wall, 360° full protection



Product Display

Cross-section _____

	SAFE PROTECTOR_FLAT SURFACE Factory Code Dimensions Hose Dimensions													
F	actory Code					D	imensi	ons				H	lose Di	imensions
No.	Product Code	_	.D		D		V.T		tch	Hose Usage Range	Hose OD		Size	Hose Execution Standard
		mm	inch	mm	inch	mm	inch	mm	inch	mm	mm	mm	inch	
1	IRN-D12T16W11	12.2	0.48	9	0.35	1.6	0.063	11	0.433	10-13	13	6	1/4"	EN853 1SN
											13	6	1/4"	SUPER 2SNK/2SC+
											15	6	1/4"	EN853 2SN
											15	8	5/16"	EN853 1SN
2	IRN-D17T18W15	16.6	0.65	13	0.51	1.8	0.071	14.5	0.571	14-17	15	8	5/16"	SUPER 2SNK/2SC+
											16	8	5/16"	EN853 2SN
											17	10	3/8"	EN853 1SN
											17	10	3/8"	SUPER 2SNK/2SC+
	IDNI DOOTOAWAA			1.0		0.1	0000	1.0	0.000	17.01	19	10	3/8"	EN853 2SN
3	IRN-D20T21W16	20.2	0.80	16	0.63	2.1	0.083	16	0.630	17-21	20	13	1/2"	EN853 1SN
											21	13	1/2"	SUPER 2SNK/2SC+
											22	10	3/8"	EN856 4SP
											22	13	1/2"	EN853 2SN
	IDAL DOFTONAIOA	05.0		00.0	0.04		0.004		0.007	00.07	24	13	1/2"	EN856 4SP
4	IRN-D25T23W21	25.2	0.99	20.6	0.81	2.3	0.091	21	0.827	22-27	24	16	5/8"	EN853 1SN
											24	16	5/8"	SUPER 2SNK/2SC+
											25	16	5/8"	EN853 2SN
											27	16	5/8"	EN856 4SP
											28	19	3/4"	EN853 1SN
											29	19	3/4"	SUPER 2SNK/2SC+
_								١.,	0 0 4 5		29	19	3/4"	EN853 2SN
5	IRN-D32T26W24	32.2	1.27	27	1.06	2.6	0.102	24	0.945	28-35	31	32	1.1/4"	SAE R15
											31	19	3/4"	EN856 4SP
											31	19	3/4"	EN856 4SH
											35	25	1"	EN853 1SN
											36	25	1"	SUPER 2SNK/2SC+
											37	25	1"	EN853 2SN
6	IRN-D40T29W35	40.2	1.58	34.4	1.35	2.9	0.114	35	1.378	36-45	39	25	1"	EN856 4SP
											39	25	1"	EN856 4SH
											39	38	1.1/2"	SAE R15
											43	32	1.1/4"	EN853 1SN
											46	32	1.1/4"	EN856 4SH
											47	32	1.1/4"	EN853 2SN
7	IRN-D51T36W40	50.8	2.00	43.6	1.72	3.6	0.142	40	1.575	46-56	50	38	1.1/2"	EN853 1SN
											51	32	1.1/4"	SAE R15
											53	_	1.1/2"	EN856 4SH
											53	38	1.1/2"	EN853 2SN
											58	38	1.1/2"	SAE R15
8	IRN-D64T38W40	63.6	2.50	56	2.20	3.8	0.150	40	1.575	57-67	63	51	2"	EN853 1SN
											66	51	2"	EN856 4SH
	IDAL DECEMBER	75.0	0.00		0.00	4.0	0.400		4.535	60.01	67	51	2"	EN853 2SN
9	IRN-D76T48W40	75.6	_	66	2.60	_	0.189	_	1.575	68-81	71	51	2"	SAE R15
10	IRN-D92T56W55		3.63	81	3.19		0.220	_	2.165	82-100				
11	IRN-D111T56W57	-	4.38	100	3.94	_	0.220	_	2.244	101-114				
12	IRN-D126T59W57		4.95	114	4.49	_	0.232	_	2.244	115-127				
13	IRN-D140T65W57	-	5.51	127	5.00	_	0.256	57	2.244	127-145				
14	IRN-D143T65W57	_	5.63	130	5.12	_	0.256	_	2.244	130-150				
15	IRN-D163T65W60	163	_	150	5.91	_	0.256	60	2.362	150-200				
16	IRN-D213T65W60	213	8.39	200	7.87	6.5	0.256	60	2.362	200-300				

CASE PRESENTATION

The ARMOR series products are primarily designed for high-quality OEM applications in construction machinery. They are mainly used in leading equipment for construction, mining, agriculture, and forestry machinery in Europe and America.

Hydraulic/Pneumatic Hoses

Construction & agricultural machinery: High-pressure hoses, hydraulic tubing, and abrasion-resistant solutions for extreme environments.

Cable/Wire Harness Protection

Robotic cable carriers (drag chains), moving cables in automation sys-

Wear-resistant sheathing for dynamic cable management.



Automotive Industry

Engine bay wire harness protection. Brake fluid line shielding against heat and friction.

VIEW MORE+







SAFE PROTECTORS SERIES

Our Safe Protectors are produced by extrusion from High Density Polyethylene or Polypropylene, offering robust protection under harsh operating conditions. Designed to safeguard hose assemblies, it effectively guards against abrasion and cuts. Additionally, it minimizes hose kinking, ensuring optimal performance and longevity of the hoses.

BOW SERIES



BOW

DESCRIPTION:

Featuring a unique arc-shaped curved design, it conforms tightly to the protected component, delivering all-around buffering and anti-collision protection to minimize friction and impact damage.

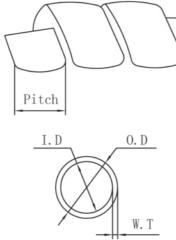
PROPERTIES:

- Material: Modified PP, HDPE, LDPE, PVC
- Temperature Range: -50 °C TO 100 °C
- Standard colors: black, yellow, red. Other colors can be customized
- Available sizes: outer diameter 8MM 212MM.
- Customizable length, easy installation, recyclable.

CHARACTERISTICS:

- Cold-resistant: -50 ℃
- Heat-resistant: 100 ℃
- UV aging-resistant
- Eco-friendly materials, no harmful substances
- Abrasion/acid-alkali/corrosion-resistant
- Sleek appearance, smooth inner wall, 360° full protection





Product Display

Cross-section

	SAFE PROTECTOR_ARC SURFACE Factory Code Dimensions Hose Dimensions													
F	actory Code					Dir	nensio	ns				Н	ose Din	nensions
No.	Product Code	0.1	D	1.0)	W	т.	Pito	ch	Hose Usage Range	Hose OD	Hose	Size	Hose Execution Standard
		mm	inch	mm	inch	mm	inch	mm	inch	mm	mm	mm	inch	Stariuaru
1	BOW-D13T15W11	13	0.51	10	0.39	1.5	0.059	11	0.43	10-13	13	6	1/4"	EN853 1SN
_	5011 5101101111		0.01		0.00	2.0	0.000		01.10	10 10	13	6	1/4"	SUPER 2SNK/2SC+
											15	6	1/4"	EN853 2SN
											15	8	5/16"	EN853 1SN
2	BOW-D17T15W13	17	0.67	14	0.55	1.5	0.059	13	0.51	14-17	15	8	5/16"	SUPER 2SNK/2SC+
										- 1 - 1	16	8	5/16"	EN853 2SN
											17	10	3/8"	EN853 1SN
											17	10	3/8"	SUPER 2SNK/2SC+
											19	10	3/8"	EN853 2SN
3	BOW-D20T18W15	19.6	0.77	16	0.63	1.8	0.071	15	0.59	17-21	20	13	1/2"	EN853 1SN
							\perp				21	13	1/2"	SUPER 2SNK/2SC+
											22	10	3/8"	EN856 4SP
											22	13	1/2"	EN853 2SN
											24	13	1/2"	EN856 4SP
4	BOW-D24T02W18	24	0.94	20	0.79	2.0	0.079	18	0.71	22-27	24	16	5/8"	EN853 1SN
											24	16	5/8"	SUPER 2SNK/2SC+
											25	16	5/8"	EN853 2SN
											27	16	5/8"	EN856 4SP
											28	19	3/4"	EN853 1SN
											29	19	3/4"	SUPER 2SNK/2SC+
	BOW-D33T26W23									2.45.250.50	29	19	3/4"	EN853 2SN
5		33.2	1.31	28	1.10	2.6	0.102	23	0.91	28-35	31	32	1.1/4"	SAE R15
											31	19	3/4"	EN856 4SP
											31	19	3/4"	EN856 4SH
											35	25	1"	EN853 1SN
											36	25	1"	SUPER 2SNK/2SC+
											37	25	1"	EN853 2SN
6	BOW-D41T28W24	40.6	1.60	35	1.38	2.8	0.110	24	0.94	36-45	39	25	1"	EN856 4SP
Ŭ	5011 5411201124	10.0	1.00		1.00	2.0	0.110		0.04	00 40	39	25	1"	EN856 4SH
											39	38	1.1/2"	SAE R15
											43	32	1.1/4"	EN853 1SN
											46	32	1.1/4"	EN856 4SH
											47	32	1.1/4"	EN853 2SN
7	BOW-D53T04W28	53	2.09	45	1.77	4.0	0.157	28	1.10	46-56	50	38	1.1/2"	EN853 1SN
	3011 3001011120			"			0.20		1.10		51	32	1.1/4"	SAE R15
											53	_	1.1/2"	EN856 4SH
											53	38	1.1/2"	EN853 2SN
											58	38	1.1/2"	SAE R15
8	BOW-D64T45W30	64	2.52	55	2.17	4.5	0.177	30	1.18	57-67	63	51	2"	EN853 1SN
	201.401130					5					66	51	2"	EN856 4SH
											67	51	2"	EN853 2SN
9	BOW-D74T45W30	74	2.91	65	2.56	_	0.177	30	1.18	68-81	71	51	2"	SAE R15
10	BOW-D91T55W45	91	3.58	80	3.15		0.217	45	1.77	82-100				
11	BOW-D112T06W50		4.41	-	3.94	_	0.236	50	1.97	101-114				
12	BOW-D126T06W50		4.96	114	4.49	_	0.236	50	1.97	115-127				
13	BOW-D139T06W50	139	5.47	127	5.00	_	0.236	50	1.97	127-145				
14	BOW-D142T06W50		5.59	130	5.12	_	0.236	50	1.97	130-150				
15	BOW-D162T06W50		_	150	5.91	_	0.236	50	1.97	150-200				
16	BOW-D210T05W50	210	8.27	200	7.87	5.0	0.197	50	1.97	200-300				



SAFE SOLUTION SAFE SOLUTION

SAFE PROTECTORS SERIES

Our Safe Protectors are produced by extrusion from High Density Polyethylene or Polypropylene, offering robust protection under harsh operating conditions. Designed to safeguard hose assemblies, it effectively guards against abrasion and cuts. Additionally, it minimizes hose kinking, ensuring optimal performance and longevity of the hoses.





BOW PRO

DESCRIPTION:

With a smooth round-shaped design, it mitigates angular friction, ensures uniform stress distribution, enhances compressive and impact resistance, and provides robust protection for internal pipelines or cables.

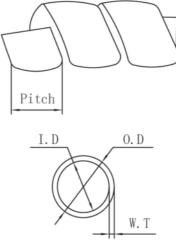
PROPERTIES:

- Material: Modified PP, HDPE, LDPE, PVC
- Temperature Range: -50 ℃ TO 100 ℃
- Standard colors: black, yellow, red. Other colors can be customized.
- Available sizes: outer diameter 8MM 212MM.
- Customization:Customizable length, easy installation, recyclable.

CHARACTERISTICS:

- Cold-resistant: -50 ℃
- Heat-resistant: 100 ℃
- UV aging-resistant
- Eco-friendly materials, no harmful substances
- Abrasion/acid-alkali/corrosion-resistant
- Sleek appearance, smooth inner wall, 360° full protection





Product Display

Cross-section

SAFE PROTECTOR_ROUNDED SURFACE Factory Code Dimensions Hose Dimensions															
F	actory Code					D	imensi	ons				H	lose Di	mensions	
No.	Product Code	0.	.D	I.	D	>	V.T	Pi	tch	Hose Usage Range	Hose OD	Hose	Size	Hose Execution	
		mm	inch	mm	inch	mm	inch	mm	inch	mm	mm	mm	inch	Standard	
1	BOP-D12T12W09	12.4	0.49	10	0.39	1.2	0.047	9	0.354	10-13	13	6	1/4"	EN853 1SN	
	DOT DIZTIZWOO	12.4	0.40	10	0.00	1.2	0.041		0.004	10 10	13	6	1/4"	SUPER 2SNK/2SC+	
											15	6	1/4"	EN853 2SN	
											15	8	5/16"	EN853 1SN	
2	BOP-D17T14W14	16.8	0.66	14	0.55	1.4	0.055	14	0.551	14-17	15	8	5/16"	SUPER 2SNK/2SC+	
											16	8	5/16"	EN853 2SN	
											17	10	3/8"	EN853 1SN	
											17	10	3/8"	SUPER 2SNK/2SC+	
											19	10	3/8"	EN853 2SN	
3	BOP-D19T14W14	18.8	0.74	16	0.63	1.4	0.055	14	0.551	17-21	20	13	1/2"	EN853 1SN	
											21	13	1/2"	SUPER 2SNK/2SC+	
	22 10 3/8" EN856 4SP 22 13 1/2" EN853 2SN														
	22 13 1/2" EN853 2SN														
	DOD DOTTAGLIAG	04.0	0.07	0.4		4.0	0.074	40	. 700	00.07	24	13	1/2"	EN856 4SP	
4	BOP-D25T18W18	24.6	0.97	21	0.83	1.8	0.071	18	0.709	22-27	24	16	5/8"	EN853 1SN	
											24	16	5/8"	SUPER 2SNK/2SC+	
											25	16	5/8"	EN853 2SN	
											27	16	5/8"	EN856 4SP	
											28	19	3/4"	EN853 1SN	
											29 29	19 19	3/4"	SUPER 2SNK/2SC+	
5	BOP-D32T22W23	32.4	1.28	28	1.10	2.2	0.087	23	0.906	28-35	31	32	1.1/4"	EN853 2SN SAE R15	
5	BOP-D32122W23	32.4	1.20	20	1.10	2.2	0.067	23	0.906	26-35	31	19	3/4"	EN856 4SP	
											31	19	3/4"	EN856 4SH	
										l	35	25	1"	EN853 1SN	
											36	25	1"	SUPER 2SNK/2SC+	
											37	25	1"	EN853 2SN	
											39	25	1"	EN856 4SP	
6	BOP-D40T23W25	39.6	1.56	35	1.38	2.3	0.091	25	0.984	36-45	39	25	1"	EN856 4SH	
											39	38	1.1/2"	SAE R15	
											43	32	1.1/4"	EN853 1SN	
											46	32	1.1/4"	EN856 4SH	
											47	32	1.1/4"	EN853 2SN	
											50	38	1.1/2"	EN853 1SN	
7	BOP-D50T26W28	50.2	1.98	45	1.77	2.6	0.102	28	1.102	46-56	51		1.1/4"	SAE R15	
											53		1.1/2"	EN856 4SH	
											53	38	1.1/2"	EN853 2SN	
										57-67	58	38	1.1/2"	SAE R15	
	DOD DOCTOR				0.45		0.455		4 4 5 4	57-67	63	51	2"	EN853 1SN	
8	BOP-D62T35W30	62	2.44	55	2.17	3.5	0.138	30	1.181	57-67	66	51	2"	EN856 4SH	
										57-67	67	51	2"	EN853 2SN	
9	BOP-D72T35W30	72	2.83	65	2.56	3.5	0.138	30	1.181	68-81	71	51	2"	SAE R15	
10	BOP-D88T04W48	88	3.46	80	3.15		0.157	48	1.890	82-100					
11	BOP-D110T05W50	110	4.33	100	3.94		0.197	50	1.969	101-114					



CASE PRESENTATION

Safe protectors are flexible conduits widely used to safeguard hydraulic hoses, cables, air lines, and other tubing systems. Their key protective functions include:

Mechanical Protection

The spiral design inherently provides 360 ° impact dispersion, converting point pressures into radial forces along the entire sleeve length.

Abrasion Resistance

The helical structure minimizes surface wear caused by friction, dragging, or contact with the ground/other objects, preventing leaks and damage.

Crush & Impact Resistance

Effectively disperses external pressure (e.g., heavy loads, foot traffic) to prevent deformation or rupture of internal lines.

Tangle Prevention

The spiral design keeps moving cables and hoses organized, avoiding knots and ensuring smooth operation.







Customized Service

We can provide customized services according to the special needs of customers. For example, we can customize spiral protective sleeves in different colors, specifications and materials, and add logos and patterns specified by customers on the protective sleeves.



Logo Customization



Dual-tone Customization



Round-end Customization



Flame-retardant Customization



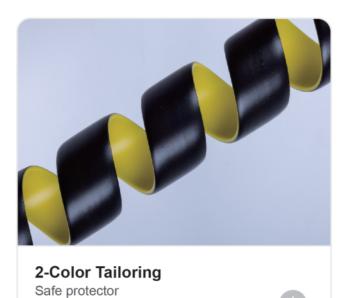
Reversed Spiral Direction Customization



Customization is available for all our series.

For more information, please refer to our website:www.safe-protector.com



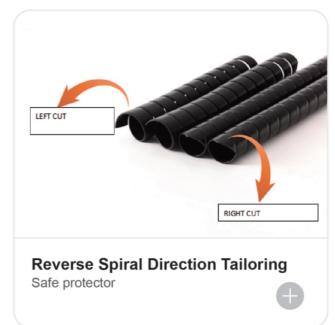


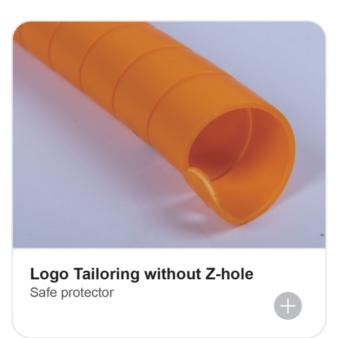


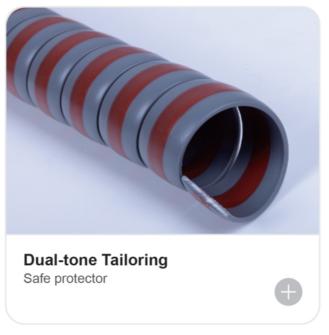
Dual-tone Tailoring

Safe protector

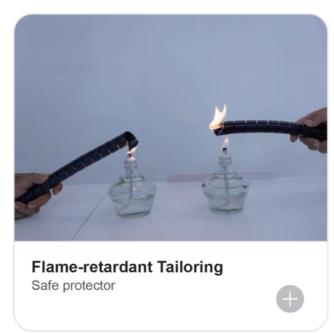












Customization is available for all our series.



Product Application Field

Characterized by excellent wear resistance, corrosion resistance, and pressure resistance, the Safe Protectors can effectively prolong the service life of the following machines' pipeline system and enhance the stability and reliability of them.

Applications

Industrial Machinery: Safeguards pipelines and cables in machine tools and other equipment, withstanding tough working conditions.

Transportation: Protects vehicle - wide wiring harnesses and ensures the safety of high - voltage cables in new energy vehicles.

Electronics & Telecommunications: Shields cables in server rooms and 5G base stations for stable signal transmission.

Energy & Mining: Resists aging and corrosion of pipelines and cables in harsh environments, cutting costs and boosting efficiency.

Construction & Agriculture: Fireproof and wear - resistant in construction; protects hydraulic pipelines and wiring harnesses of agricultural machinery.





Excavator Pump Trucks Coal Mine Support Brackets Tractors



Fuel Dispenser Ladder trucks Car washing machine Cable





Appearance Inspection

Thoroughly examine finished products' appearance. Check for uniform color, smooth surfaces, and absence of deformations, damages, or other defects. As appearance quality impacts market image and customer satisfaction, inspections must strictly follow appearance standards.



Dimensional Inspection

Use calipers, micrometers, etc., to spot - check key dimensions of finished products. Ensure product dimensions meet design requirements. Dimensional accuracy control is crucial for spiral protective sleeves with special requirements, like customized items for specific equipment.



Physical Property Testing

Conduct tensile, bending, and wear tests to assess finished products' physical properties (tensile strength, flexibility, wear resistance). This ensures products meet real - world performance requirements. For example, automotive wire harness protection sleeves must have high wear resistance and flexibility to endure vehicle vibrations and bends.



Packaging Methods

Retail plastic-sealed packaging

Customized packaging with plastic film and bonding straps, keeping out dust, moisture and oil, preserving the sleeve's appearance and performance, and preventing movement in the package.





Carton Packaging with Opening

Customized carton with opening, one roll per carton, ensuring ventilation, easy inspection, and convenient access.





Plain Carton Packaging

Multiple rolls in one case saves space facilitates handling, and reduces packaging costs.





Big Carton Packaging

For extra-large spiral protectors, we opt for 100cm×100cm×100cm cartons as the preferred packaging. This allows integrated storage of multiple rolls, cutting warehouse space usage while safeguarding the products from damage during transit.









Product Features

The product has the characteristics of wear resistance, explosion-proof and noise reduction, moisture absorption and dust prevention, and strong tensile strength.

Application Area

It is widely used for wear-resistant and explosion-proof protection of hydraulic pipes, oil pipes, gas pipes and other pipes of mechanical equipment, especially for pipe fittings working in harsh environment.

NYLON SLEEVES











Superior material

Safe and durable

Environmental protection

Eco Nylon Sleeve

Thickness: 0.8 mm

Features: Thin and lightweight, offers basic protection with good flexibility. Low space demand, cost - effective.

Applications: Small - scale equipment with limited space/budget, like simple pipeline protection in compact setups.

Eco-Type-Pro Nylon Sleeve

Thickness: 1.0 mm

Features: Moderate thickness balances protection, flexibility, and durability. Works well in normal environments. Applications: General industrial use, e.g., hydraulic hose/cable harness protection in standard machinery.

Eco-Type-Pro Max Nylon Sleeve

Thickness: 1.2 mm

Features: Thickest, strongest protection. Excellent wear/crush resistance for harsh conditions. Long service life.

Applications: Harsh - duty scenarios, like construction machinery high - pressure lines, mining equipment cables, or outdoor - exposed key components.

ECO VS ECO Pro VS ECO Pro Max

Nylon Sleeve Type	Thickness (mm)	Features	Application Scenarios
ECO	0.8	Relatively thin thickness, light texture. Meets basic protection needs while being more flexible, has lower requirements for installation space, and relatively controllable cost.	Suitable for scenarios with relatively basic protection requirements, limited installation space, and tight budgets, such as simple pipeline protection inside some small equipment, or lightweight assembly with certain weight restrictions.
Eco-Type-Pro	1.0	Moderate thickness, has good protection performance and flexibility, improved durability, and can provide stable protection in normal environments, with wide adaptability.	Can be used for pipeline and cable protection of general industrial equipment, such as hose protection in ordinary mechanical hydraulic systems, and cable harness arrangement and protection inside daily electrical equipment in regular scenarios.
Eco-Type-Pro Max	1.2	Thickest thickness, strongest protection performance, excellent wear - resistance and anti - extrusion ability, can adapt to more complex and harsh environments, and has a relatively longer service life.	Suitable for harsh working conditions, such as protection of high - pressure pipelines of construction machinery (subject to long - term friction and extrusion), cable protection of mining equipment (facing collisions with gravel and heavy objects, etc.), or protection of key components of equipment exposed outdoors for a long time.



Eco-Type

1

DESCRIPTION:

The nylon hollow sleeve is crafted from highly durable and flexible nylon, which offers reliable protection against abrasion and aging.

PROPERTIES:

- Material: Nylon
- Working temperature: -40 °C ~ +150 °C
- Melting point: 220±10°C
- Colour: black
- Customization:Customizable flame-retardant feature

CHARACTERISTICS:

- Lightweight & durable
- Abrasion-resistant
- Acid & oil-resistant
- UV-resistant
- Moisture & dust-proof
- Explosion & corrosion-proof





Product Display

Show Details

	SAF	E PROTEC	CTOR_NYL	ON HOLL	.OW SLEE	√E		
ID (mm)	Width (mm)	Thickness (mm)	Printed	MOQ	Hose Execution Standard	Hose Size (inch)	Hose OD (mm)	
17	30±2		Available		EN853 1SN		13	
				-	SUPER 2SNK/2SC+	1/4"	13 15	
					EN853 2SN EN853 1SN		15	
20	35±2		Available		SUPER 2SNK/2SC+	5/16"	15	
					EN853 2SN	3/10	16	
		1		1	EN853 1SN		17	
23	39±2		Available		SUPER 2SNK/2SC+	3/8"	17	
		1		1	EN853 2SN		19	
					EN853 1SN		20	
25	43±2		Available		SUPER 2SNK/2SC+	1/2"	21	
					EN856 4SP	3/8"	22	
					EN853 2SN	4/0"	22	
		1		1	EN856 4SP	1/2"	24	
30	52±2		Available		EN853 1SN		24	
30	52±2		Available		SUPER 2SNK/2SC+	5/8"	24	
					EN853 2SN	5/6	25	
33	55±2	1	Available	1	EN856 4SP		27	
33	5512		Available		EN853 1SN		28	
					SUPER 2SNK/2SC+	3/4"	29	
						EN853 2SN		29
36	60±3	0.8mm	Available	2000 meters per	SAE R15	1.1/4"	31	
		0.011111		type	EN856 4SP	3/4"	31	
					EN856 4SH		31	
40	60±3		Available		EN853 1SN		35	
				ļ	SUPER 2SNK/2SC+		36	
					EN853 2SN	1"	37	
45	74±3		Available		EN856 4SP		39	
					EN856 4SH	4.4/01	39	
				1	SAE R15	1.1/2"	39 43	
50	83±3		Available		EN853 1SN EN856 4SH	1.1/4"	43	
		1		1	EN853 2SN	1.1/4	47	
55	90±3		Available		EN853 1SN	1.1/2"	50	
55	3010		Available		SAE R15	1.1/4"	51	
		1		1	EN856 4SH		53	
60	98±3		Available		EN853 2SN	1.1/2"	53	
66	107±3	1	Available	1	SAE R15		58	
		1	Available		EN853 1SN		63	
73	118±3		Available		EN856 4SH	0"	66	
					EN853 2SN	2"	67	
78	126±3	1	Available	1	SAE R15		71	
85	138±3		Available]				
90	145+3	1	Available	1				



ECO-Type-Pro

2

DESCRIPTION:

Constructed from high-density nylon fabric, it is lightweight, abrasion-resistant, and tear-proof, effectively enduring daily friction and scuffs. The inner layer has soft suede or shock-absorbing foam (model-specific) for dual-layer cushioning.

PROPERTIES:

- Material: Nylon
- Working temperature: -40 °C ~ +150 °C
- Melting point: 220±10 °C
- Colour: black
- Customization: Customizable flame-retardant feature

CHARACTERISTICS:

- Lightweight & durable
- Abrasion-resistant
- Acid & oil-resistant
- UV-resistant
- Moisture & dust-proof
- Explosion & corrosion-proof





Product Display

Show Details

SAFE PROTECTOR_NYLON HOLLOW SLEEVE										
ID (mm)	Width (mm)	Thickness (mm)	Printed	MOQ	Hose Execution Standard	Hose Size (inch)	Hose OD (mm)			
17	30±2		Available		EN853 1SN SUPER 2SNK/2SC+	1/4"	13			
20	35±2	1.0mm	Available	e e e e e e e e e e e e e e e e e e e	EN853 2SN EN853 1SN SUPER 2SNK/2SC+	5/16"	15 15 15			
23	39±2		Available		EN853 2SN EN853 1SN SUPER 2SNK/2SC+	3/8"	16 17 17			
25	43±2		Available		EN853 2SN EN853 1SN SUPER 2SNK/2SC+	1/2"	19 20 21			
					EN856 4SP EN853 2SN EN856 4SP	3/8" 1/2"	22 22 24			
30	52±2		Available		EN853 1SN SUPER 2SNK/2SC+ EN853 2SN	5/8"	24 24 25			
33	55±2		Available		EN856 4SP EN853 1SN		27 28			
36	60±3		Available		SUPER 2SNK/2SC+ EN853 2SN SAE R15	1.1/4"	29 29 31			
					EN856 4SP EN856 4SH	3/4"	31 31			
40	60±3		Available Available		EN853 1SN SUPER 2SNK/2SC+ EN853 2SN	1"	35 36 37			
45	74±3				EN856 4SP EN856 4SH SAE R15		39 39 39			
50	83±3		Available		EN853 1SN EN856 4SH	1.1/2" 1.1/4" 1.1/2" 1.1/4" 2"	43 46			
55	90±3		Available		EN853 2SN EN853 1SN SAE R15		47 50 51			
60	98±3		Available		EN856 4SH EN853 2SN		53 53			
66 73	107±3 118±3		Available Available		SAE R15 EN853 1SN EN856 4SH EN853 2SN		58 63 66 67			
78 85 90	126±3 138±3 145±3		Available Available Available		SAE R15		71			



ECO-Type-Pro Max

3

DESCRIPTION:

The nylon sleeves, with molecular chain "weaving toughness", offers flexible yet robust technological armor for industrial pipelines.

PROPERTIES:

- Material: Nylon
- Working temperature: -40 °C ~ +150 °C
- Melting point: 220±10 °C
- Colour: black
- Customization: Customizable flame-retardant feature

CHARACTERISTICS:

- Lightweight & durable
- Abrasion-resistant
- Acid & oil-resistant
- UV-resistant
- Moisture & dust-proof
- Explosion & corrosion-proof





Product Display Show Details

SAFE PROTECTOR_NYLON HOLLOW SLEEVE ID Width Thickness Hose Execution Hose Size Hose OD (mm) EN853 1SN 13 17 30±2 Available SUPER 2SNK/2SC+ 13 EN853 2SN 15 EN853 1SN 15 20 35±2 Available SUPER 2SNK/2SC+ 15 EN853 2SN 16 EN853 1SN 17 23 39±2 Available SUPER 2SNK/2SC+ 17 EN853 2SN 19 EN853 1SN 20 43±2 Available SUPER 2SNK/2SC+ 21 3/8" 22 EN856 4SP EN853 2SN 22 1/2" EN856 4SP 24 EN853 1SN 24 30 52±2 Available SUPER 2SNK/2SC+ 24 EN853 2SN 25 EN856 4SP 27 33 55±2 Available EN853 1SN 28 SUPER 2SNK/2SC+ 29 EN853 2SN 29 36 60±3 Available SAE R15 1.1/4" 31 2000 meters per 1.2mm EN856 4SP 31 31 EN856 4SH EN853 1SN 35 60±3 Available SUPER 2SNK/2SC+ 36 EN853 2SN 37 EN856 4SP 39 74±3 Available EN856 4SH 39 SAE R15 1.1/2" 39 EN853 1SN 43 83±3 Available EN856 4SH 46 EN853 2SN 47 55 90±3 Available EN853 1SN 1.1/2" 50 SAE R15 51 EN856 4SH 53 60 98+3 Available EN853 2SN 1.1/2" 53 66 107±3 Available SAE R15 58 63 EN853 1SN EN856 4SH 66 73 118±3 Available EN853 2SN 67 78 126±3 Available SAE R15 71 85 138±3 Available

Available

67

90

145±3



CASE PRESENTATION

Nylon braided sleeving is a protective outer laver made from polyamide fibers, designed for hydrauic hoses, construction machinery.wires/cables, and tubing systems requiring abrasion resistance, tensile strength, and corrosion protection.

Superior Abrasion Resistance

Withstands frequent friction in industrial/automotive applications (e.g., cable harnesses, moving parts).

High Tensile Strength

Reinforced fiber structure resists stretching and external forces.

Flexible & Easy to Install

Maintains softness for effortless bending around complex shapes.

Chemical Resistance

Protects against oils, greases, and mild acids/alkalis.

Lightweight

30–50% lighter than metal/rubber alternatives (ideal for weight-sensitive uses).

Mathematical SeriesBreathable Design

Open weave allows airflow for heat dissipation in enclosed spaces.

Burst Prevention

Reduces risk of hydraulic spray accidents by containing pressure surges.







FIRE SLEEVES

DESCRIPTION:

The flame sleeves excels at blocking under-hood heat, ideal for hoses, wires, and oil/fuel lines. Made of braided fiber-glass with 100% iron oxide silicone coating, it withstands 1650° C ambient/560° C direct heat, perfect for insulating engine bay lines.

PROPERTIES:

- Material: Silicone rubber-coated glass fiber
- Working temperature: Withstands up to 1650 ° C ambient heat & 560°C direct continuous heat.

Halogen-free, low-smoke, non-toxic fumes on combustion

CHARACTERISTICS:

- Chemical corrosion resistance
- Oil & water resistance
- Tear resistance
- UV/aging resistance
- Flexibility





Product Display

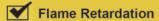
Show Details

SAFE PROTECTOR_FIRE SLEEVE									
ID.(mm)	ID.(inch)	Wall thickne ss (mm)	Tolerance (mm)	Roll length (m)	Ctn size (cm)				
10	3/8"	2	±0.20	25	47*47*10				
11	7/16"	2	±0.20	25	47*47*10				
13	1/2"	2	±0.20	25	47*47*10				
15	5/8"	2	±0.20	25	47*47*10				
19	3/4"	2	±0.20	25	47*47*10				
22	7/8"	2	±0.20	25	47*47*10				
25	1"	2	±0.30	25	47*47*10				
29	1 1/8"	2	±0.30	25	47*47*10				
32	1 1/4"	2	±0.30	25	47*47*10				
35	1 3/8"	3	±0.30	25	47*47*15				
38	1 1/2"	3	±0.30	25	47*47*15				
40	1 3/5"	3	±0.30	25	47*47*15				
41	1 5/8"	3	±0.30	25	47*47*15				
45	1 3/4"	3	±0.30	25	47*47*15				
48	1 7/8"	3	±0.30	25	47*47*15				
51	2"	3	±0.35	25	52*52*20				
55	2 1/5"	3.5	±0.35	25	52*52*20				
57	2 1/4"	3.5	±0.35	25	52*52*20				
60	2 3/8"	3.5	±0.35	20	52*52*20				
64	2 1/2"	3.5	±0.35	20	52*52*20				
65	2 3/5"	3.5	±0.35	20	52*52*20				
70	2 3/4"	3.5	±0.40	20	52*52*20				
76	3"	4	±0.40	20	52*52*20				
80	3 1/5"	4	±0.40	20	52*52*20				
83	3 1/4"	4	±0.40	20	52*52*20				
85	3 3/8"	4	±0.40	20	52*52*20				
89	3 1/2"	4	±0.50	20	52*52*20				
90	3 9/16"	4	±0.50	20	52*52*20				
95	3 3/4"	4	±0.50	20	52*52*20				
102	4"	5	±0.50	10	52*52*20				
110	4 1/3"	5	±0.50	10	54*54*20				
114	4 1/2"	5	±0.50	10	54*54*20				
120	4 4/5"	5	±0.50	10	54*54*20				
127	5"	5	±0.50	10	54*54*20				
150	6"	6	±0.50	10	54*54*20				



CASE PRESENTATION

Fire sleeve is a protective solution designed to safeguard hydraulic hoses, cables, wires, and pipelines against extreme heat, open flames, and sparks. Widely used in construction machinery, industrial plants, automotive, aerospace, and infrastructure applications.



Self-extinguishing material prevents fire propagation.

Thermal Insulation

Minimizes heat transfer to prevent temperature-induced damage to internal cables/pipes.

Electrical Insulation

Prevents short circuits caused by sparks or arc flashes.

Dual Protection

Optional abrasion/chemical-resistant variants for harsh environments.

VIEW MORE+





