HYDRAULICS

POWERED BY op®

Stopflex +

Hose Rentention Safety System

The only fully validated hydraulic hose retention safety system.

ISO 4413
5.4.6.5



KURIYAMA
OF AMERICA, INC.

kuricrimp.com

ISO 9001
QUALITY MS

NAHAD
HOSE SAFETY INSTITUTE

EDITION 0525

HYDRAULIC HOSE FAILURE RISKS

Hydraulic hose failures are more than just costly – they're dangerous. Operating at high pressures, hydraulic hose failures can result in violent hose whipping, putting those in the vicinity at risk of serious injury.

Designers of hydraulic systems must ensure hydraulic hoses are installed safely, including evaluation of the suitability of hose retention systems designed to restrain hoses in the event of a failure. Also, it is vital to ensure the retention system is designed and validated to meet the force requirements of the specific application.

THE STOPFLEX™ PRESSURE (PSI) RATED RETENTION SYSTEM

Unlike other hose retention systems, Stopflex is pressure-rated to handle specific PSI levels, providing verified performance criteria that can be matched to the PSI levels of the particular hose application. This ensures the system is adequate for the demands of the particular hose application, and effectively eliminates hose failure risks by providing a tested and validated system that ensures safety and reliability.

Note: this is simply done by ensuring the listed pressure rating (PSI) of the Stopflex components is greater than that of the hose application.

THE GLOBAL STANDARD FOR HYDRAULIC SAFETY

ISO 4413
5.4.6.5

ISO 4413, Hydraulic Fluid Power - General Rules & Safety Requirements for Systems and Their Components, is a widely accepted international safety standard, establishing guidelines for the design, assembly and maintenance of hydraulic systems, in order to minimize risks of failure, and the potential for user injury.

In particular, ISO 4413, clause 5.4.6.5, Protection Against Hose Failure, requires hydraulic hoses be secured or restrained to prevent whipping in the event of a failure, and that hose restraints must be effective in preventing dangerous movement to protect personnel and equipment. Many companies, especially those in the mining, manufacturing and construction industries, require compliance with ISO 4413.

However, many retention systems fail to meet the intent of ISO 4413 because they're not pressure rated. Unlike these systems, Stopflex is rigorously tested and validated to withstand real hydraulic system pressures, making it one of the only retention solutions fully aligned with ISO 4413's safety mandates.

Don't compromise on hydraulic safety. Choose the retention system that's tested and proven to SAE J517 standards to protect your team, safeguard your equipment, and maintain operational integrity.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

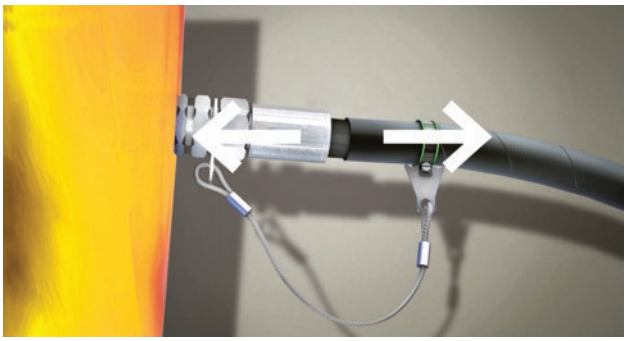
SAFE & EFFECTIVE FORCE CONTAINMENT

Hydraulic hoses contain enormous potential energy while in operation, resulting from their high operating pressures, which are often in the thousands of PSI. During a hose failure this energy becomes kinetic, transforming the hose into a dangerous whip hazard, potentially resulting in serious injury. The Stopflex system is designed to safely dissipate this pressure, and protect those in the vicinity from being struck during a hose failure.

HOW IT WORKS

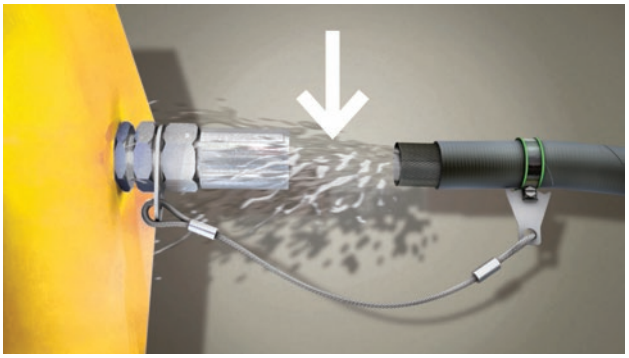
1 INITIAL DISENGAGEMENT

The system is designed not to interfere during the initial stage of hose failure, allowing for full hose disengagement from the fitting. At this stage, the Stopflex system has not become fully functional.



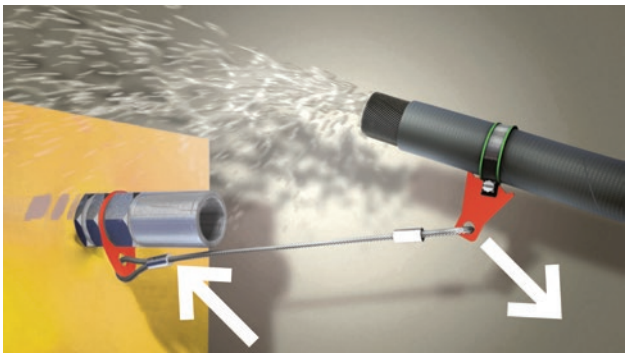
2 PRESSURE RELEASE

As the hose disengages from the coupling, the pressurized media rapidly exits the hydraulic hose, releasing kinetic energy, and causing the hose to whip violently. This sudden movement can be extremely hazardous to nearby personnel and equipment.



3 HOSE RESTRAINT

However, as the hose begins to move away from the fitting, the system goes to work. Securely attached to the hose with a its specially designed clamps, the clamp plate then digs into the hose rubber preventing the clamp from moving while the steel cable tensions. The overall action restricts the hose from whipping dangerously. Additionally, the steel plate at the opposite end of the steel cable is designed to deform, absorbing the force of the hose's movement and bringing it to a controlled stop. By effectively containing the dangerous whipping motion of a high-pressure hydraulic hose failure, Stopflex enhances workplace safety and reduces the risk of injury or damage.



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Stopflex+

Safety Retention Systems for High Pressure Hydraulic Hose Assemblies



KH-STOPFUDIN-OP

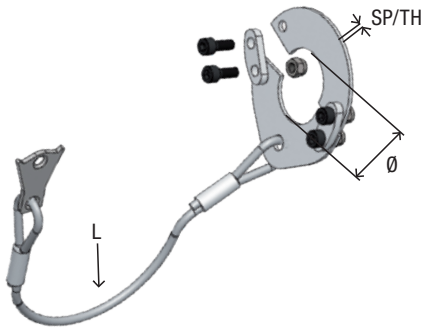
Nipple Retention System Open 24° Cone Connectors (DIN)

View Up To Date Info

SCAN OR VISIT
KOA.link/
KH-STOPFUDIN-OP

DESCRIPTION

An improved Stopflex retention system designed for DIN fittings. A highly engineered retention system that can be applied to hoses already installed.



Part Number	Ø M	Ø (in)	SP./TH (in)	L (in)	Package/ Sell Qty	Max Operating Pressure (psi)	Cutting Plate
KH-STOPFUDIN1450P	M6	0.571	0.079	11.811	10	6525	SMALL
KH-STOPFUDIN170P	M6	0.669	0.079	11.811	10	6453	SMALL
KH-STOPFUDIN1850P	M6	0.728	0.079	11.811	10	6090	SMALL
KH-STOPFUDIN2050P	M6	0.807	0.079	11.811	10	6090	SMALL
KH-STOPFUDIN2250P	M6	0.886	0.079	11.811	10	6090	SMALL
KH-STOPFUDIN2450P	M6	0.965	0.079	11.811	10	6090	SMALL
KH-STOPFUDIN2650P	M6	1.043	0.079	11.811	10	6090	SMALL
KH-STOPFUDIN3050P	M6	1.201	0.098	17.717	10	6090	LARGE
KH-STOPFUDIN340P	M8	1.339	0.098	17.717	10	6090	LARGE
KH-STOPFUDIN3650P	M8	1.437	0.098	17.717	10	6090	LARGE
KH-STOPFUDIN4250P	M8	1.673	0.098	17.717	10	6090	LARGE
KH-STOPFUDIN4550P	M8	1.791	0.098	17.717	10	6090	LARGE
KH-STOPFUDIN490P	M8	1.929	0.098	17.717	10	6090	LARGE
KH-STOPFUDIN5250P	M8	2.067	0.098	17.717	10	5583	LARGE
KH-STOPFUDIN600P	M8	2.362	0.098	17.717	10	5075	LARGE

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Safety Retention Systems for High Pressure Hydraulic Hose Assemblies





KH-STOPFUJIC-OP Series

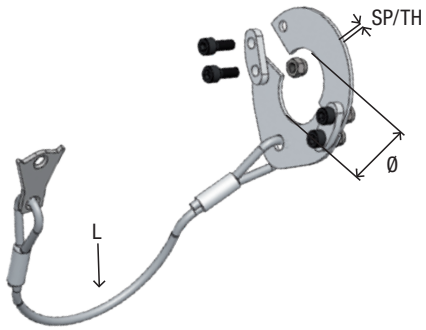
Nipple Retention System Open 24° Cone Connectors (JIC)

View Up To Date Info

SCAN OR VISIT
KOA.link/
KH-STOPFUJIC-OP

DESCRIPTION

An improved Stopflex retention system designed for JIC fittings. A highly engineered retention system that can be applied to hoses already installed.

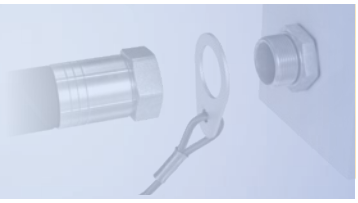


Part Number	Ø M	Ø (in)	SP./TH (in)	L (in)	Package/ Sell Qty	Max Operating Pressure (psi)	Cutting Plate
KH-STOPFUJIC115OP	M6	0.453	0.079	11.811	10	6525	SMALL
KH-STOPFUJIC132OP	M6	0.520	0.079	11.811	10	6453	SMALL
KH-STOPFUJIC148OP	M6	0.583	0.079	11.811	10	6090	SMALL
KH-STOPFUJIC195OP	M6	0.768	0.079	11.811	10	6090	SMALL
KH-STOPFUJIC2280P	M6	0.898	0.079	11.811	10	6090	SMALL
KH-STOPFUJIC275OP	M6	1.083	0.079	11.811	10	6090	SMALL
KH-STOPFUJIC307OP	M6	1.209	0.079	11.811	10	6090	SMALL
KH-STOPFUJIC34SOP	M6	1.201	0.098	17.717	10	6090	LARGE
KH-STOPFUJIC340P	M6	1.339	0.098	17.717	10	6090	LARGE
KH-STOPFUJIC415SOP	M8	1.339	0.098	17.717	10	6090	LARGE
KH-STOPFUJIC415SOP	M6	1.634	0.098	17.717	10	6090	LARGE
KH-STOPFUJIC48SOP	M6	1.890	0.098	17.717	10	6090	LARGE
KH-STOPFUJIC480P	M8	1.890	0.098	17.717	10	6090	LARGE
KH-STOPFUJIC640P	M8	2.520	0.098	17.717	10	5583	LARGE

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Safety Retention Systems for High Pressure Hydraulic Hose Assemblies





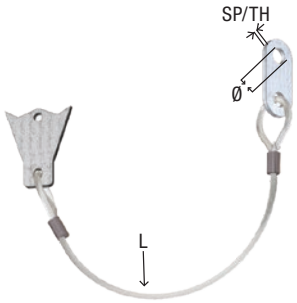
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SCAN OR VISIT
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KH-STOPVARIE

KH-STOPFUVARIE Series

Retention System for Various Uses

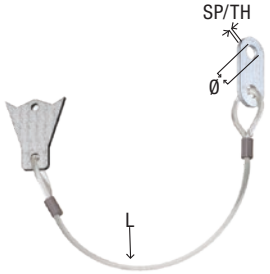
Part Number	Ø M	Ø (in)	SP./TH (in)	L (in)	Package/ Sell Qty	Max Operating Pressure (psi)	Cutting Plate
KH-STOPFUVARIE	M8	0.512	0.157	17.717	10	6090	LARGE
KH-STOPFUVARIES	M6	0.413	0.157	17.717	10	6090	SMALL





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SCAN OR VISIT
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KH-STOPFUSAE



KH-STOPFUSAE Series

Retention System for 300 and 600 SAE Flanges

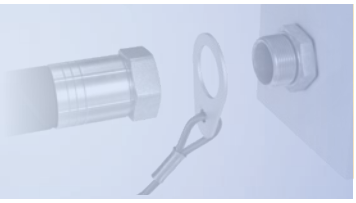
Part Number	Ø M	Ø (in)	SP./TH (in)	L (in)	Package/ Sell Qty	Max Operating Pressure (psi)	Cutting Plate
KH-STOPFUSAE085	M6	0.335	0.157	11.811	10	6018	SMALL
KH-STOPFUSAE2105*	M6	0.413	0.157	11.811	10	6090	SMALL
KH-STOPFUSAE105	M8	0.492	0.157	17.717	10	6090	LARGE
KH-STOPFUSAE125	M8	0.492	0.157	17.717	10	6090	LARGE
KH-STOPFUSAE145	M6	0.571	0.157	17.717	10	6090	SMALL
KH-STOPFUSAE165	M8	0.650	0.157	17.717	10	6090	LARGE
KH-STOPFUSAE205	M8	0.807	0.157	17.717	10	5075	LARGE
KH-STOPFUSAE25	M8	0.984	0.315	21.654	10	5075	LARGE
KH-STOPFUSAE32	M8	1.260	0.315	21.654	10	3045	LARGE

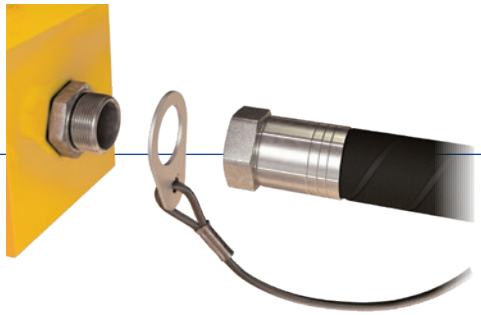
** Applications with SAE 3000 flanges for 3/4" hoses.*

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Safety Retention Systems for High Pressure Hydraulic Hose Assemblies



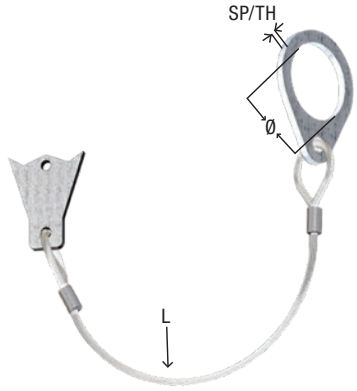


KH-STOPFUDIN Series

24° Cone Connectors (DIN)

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KH-STOPFUDIN

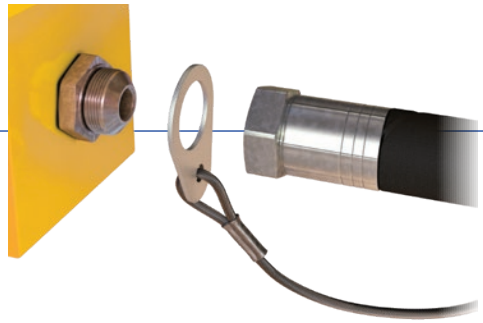


Part Number	Ø M	Ø (in)	SP./TH (in)	L (in)	Package/ Sell Qty	Max Operating Pressure (psi)	Cutting Plate
KH-STOPFUDIN145	M6	0.571	0.079	11.811	10	6525	SMALL
KH-STOPFUDIN17	M6	0.669	0.079	11.811	10	6453	SMALL
KH-STOPFUDIN185	M6	0.728	0.079	11.811	10	6090	SMALL
KH-STOPFUDIN205	M6	0.807	0.079	11.811	10	6090	SMALL
KH-STOPFUDIN558	M6	0.886	0.079	11.811	10	6090	SMALL
KH-STOPFUDIN245	M6	0.965	0.079	11.811	10	6090	SMALL
KH-STOPFUDIN265	M6	1.043	0.079	11.811	10	6090	SMALL
KH-STOPFUDIN305	M6	1.201	0.098	17.717	10	6090	SMALL
KH-STOPFUDIN34	M8	1.339	0.098	17.717	10	6090	LARGE
KH-STOPFUDIN365	M8	1.437	0.098	17.717	10	6090	LARGE
KH-STOPFUDIN2365	M8	1.437	0.098	17.717	10	6090	LARGE
KH-STOPFUDIN425	M8	1.673	0.098	17.717	10	6090	LARGE
KH-STOPFUDIN455	M8	1.791	0.098	17.717	10	6090	LARGE
KH-STOPFUDIN2455	M8	1.791	0.098	17.717	10	6090	LARGE
KH-STOPFUDIN49	M8	1.929	0.098	17.717	10	6090	LARGE
KH-STOPFUDIN525	M8	2.067	0.098	17.717	10	5583	LARGE
KH-STOPFUDIN60	M8	2.362	0.098	17.717	10	5075	LARGE

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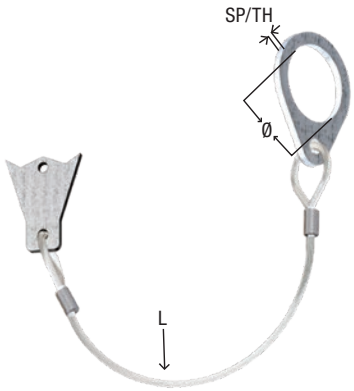
Stopflex+

Safety Retention Systems for High Pressure Hydraulic Hose Assemblies



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KH-STOPFUJIC



KH-STOPFUJIC Series

37° Flared Connectors (JIC)

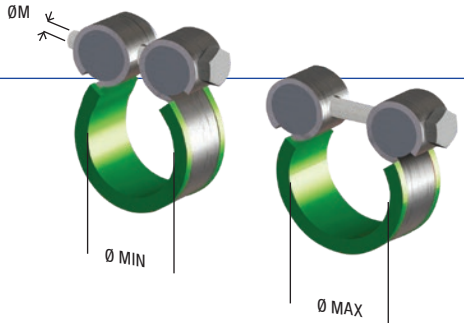
Part Number	Ø M	Ø (in)	SP./TH (in)	L (in)	Package/ Sell Qty	Max Operating Pressure (psi)	Cutting Plate
KH-STOPFUJIC115	M6	0.452	0.079	11.811	10	6525	SMALL
KH-STOPFUJIC132	M6	0.519	0.079	11.811	10	6525	SMALL
KH-STOPFUJIC148	M6	0.452	0.079	11.811	10	6525	SMALL
KH-STOPFUJIC195	M6	0.767	0.079	11.811	10	6090	SMALL
KH-STOPFUJIC228	M6	0.897	0.079	11.811	10	6090	SMALL
KH-STOPFUJIC275	M6	1.082	0.098	11.811	10	6090	SMALL
KH-STOPFUJIC307	M6	1.208	0.098	11.811	10	6090	SMALL
KH-STOPFUJIC34S	M6	1.339	0.098	17.717	10	6090	SMALL
KH-STOPFUJIC34	M8	1.339	0.098	17.717	10	6090	LARGE
KH-STOPFUJIC415S	M8	1.633	0.098	17.717	10	6090	SMALL
KH-STOPFUJIC415	M8	1.633	0.098	17.717	10	6090	LARGE
KH-STOPFUJIC48S	M8	1.889	0.098	17.717	10	6090	SMALL
KH-STOPFUJIC48	M8	1.889	0.098	17.717	10	6090	LARGE
KH-STOPFUJIC64	M8	2.519	0.098	17.717	10	5075	LARGE

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Stopflex+

Safety Retention Systems for High Pressure Hydraulic Hose Assemblies





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SCAN OR VISIT
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KH-STOPFA

KH-STOPFA Series

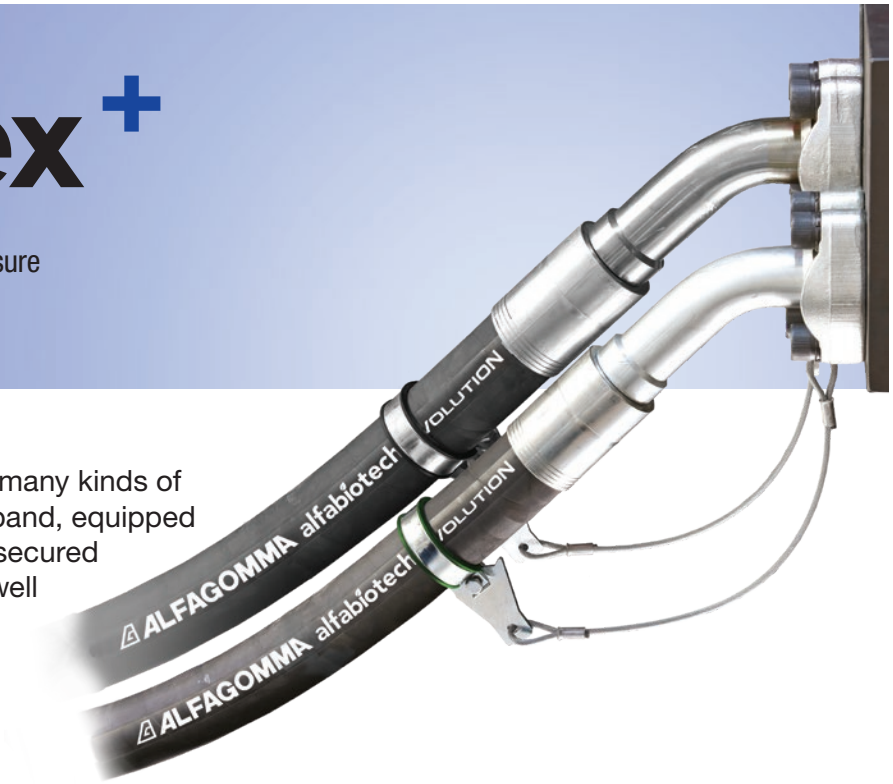
StopFlex Hose Bands

Part Number	Ø M	Ø MIN		Ø MAX		Package/ Sell Qty	Suggested Spiral-Reinforced Hydraulic Hose Pairings
		(mm)	(in)	(mm)	(in)		
KH-STOPFA11115	M6	11	0.433	11.5	0.453	10	
KH-STOPFA12125	M6	12	0.472	12.5	0.492	10	
KH-STOPFA13135	M6	13	0.512	13.5	0.531	10	
KH-STOPFA1415	M6	14	0.551	15	0.591	10	
KH-STOPFA1617	M6	16	0.630	17	0.669	10	E6K-04
KH-STOPFA1718	M6	17	0.669	18	0.709	10	
KH-STOPFA1819	M6	18	0.709	19	0.748	10	E4K-06, E6K-06
KH-STOPFA2021	M6	20	0.787	21	0.827	10	
KH-STOPFA2122	M6	21	0.827	22	0.866	10	
KH-STOPFA2223	M6	22	0.866	23	0.906	10	E4K-08, E6K-08
KH-STOPFA2425	M6	24	0.945	25	0.984	10	
KH-STOPFA2526	M6	25	0.984	26	1.024	10	E4K-10, E5K-10
KH-STOPFA2627	M6	26	1.024	27	1.063	10	
KH-STOPFA2728	M6	27	1.063	28	1.102	10	E6K-10
KH-STOPFA2829	M6	28	1.102	29	1.142	10	E4K-12, E5K-12
KH-STOPFA3031	M6	30	1.181	31	1.220	10	E6K-12
KH-STOPFA3233	M6	32	1.260	33	1.299	10	
KH-STOPFA3435	M6	34	1.339	35	1.378	10	
KH-STOPFA3637	M6	36	1.417	37	1.457	10	E4K-16, E5K-16
KH-STOPFA3839	M6	38	1.496	39	1.535	10	E6K-16
KH-STOPFA3940	M6	39	1.535	40	1.575	10	
KH-STOPFA4041	M6	40	1.575	41	1.614	10	
KH-STOPFA4243	M6	42	1.654	43	1.693	10	
KH-STOPFA4344	M6	43	1.693	44	1.732	10	E4K-20, E5K-20
KH-STOPFA4445	M6	44	1.732	45	1.772	10	E3K-20
KH-STOPFA4547	M8	45	1.772	47	1.850	10	E6K-20
KH-STOPFA4850	M8	48	1.890	50	1.969	10	E3K-24, E4K-24
KH-STOPFA5153	M8	51	2.008	53	2.087	10	
KH-STOPFA5456	M8	54	2.126	56	2.205	10	E5K-24, E6K-24
KH-STOPFA5759	M8	57	2.244	59	2.323	10	
KH-STOPFA6062	M8	60	2.362	62	2.441	10	
KH-STOPFA6365	M8	63	2.480	65	2.559	10	E3K-32, E4K-32
KH-STOPFA6668	M8	66	2.598	68	2.677	10	E5K-32, E6K-32
KH-STOPFA6971	M8	69	2.717	71	2.795	10	
KH-STOPFA7274	M8	72	2.835	74	2.913	10	
KH-STOPFA7577	M8	75	2.953	77	3.031	10	
KH-STOPFA7880	M8	78	3.071	80	3.150	10	
KH-STOPFA8183	M8	81	3.189	83	3.268	10	
KH-STOPFA8486	M8	84	3.307	86	3.386	10	
KH-STOPFA8789	M8	87	3.425	89	3.504	10	
KH-STOPFA9092	M8	90	3.543	92	3.622	10	
KH-STOPFA9395	M8	93	3.661	95	3.740	10	

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Stopflex +

Safety Retention Systems for High Pressure
Hydraulic Hose Assemblies



+ USE FLEXIBILITY

Stopflex components can be applied to many kinds of flexible hose assembly applications. A band, equipped with a rubber gasket, remains perfectly secured to the hose while allowing the hose to swell according to the working pressure. The retaining components can be secured to nipples, SAE flanges or other system components as per the application requirement.

+ SAFETY GUARANTEE

The energy contained within a high-pressured hose, if disconnected from the fitting, can be very dangerous to anyone or anything in the vicinity. The Stopflex retention system was designed to arrest the trajectory of the flexible hose, preventing the energy contained inside the hose from triggering a dangerous "whip effect". Thanks to the Stopflex system, the hose is safely secured by means of a cable protecting both operators and components.

+ TESTED PROTECTION

The Stopflex system, when installed properly, is manufactured and tested to ensure the retention of the hose up to the maximum pressure indicated in this catalog, in compliance with the following standards regulating the manufacturing of hydraulic flexible hoses:

EN 853	EN 854	EN 855
EN 856	EN 857	SAE J517

ISO 4413 HYDRAULIC FLUID POWER, GENERAL RULES RELATING TO SYSTEM:

"Should the rupture of a hose assembly represent a whiplash hazard, the latter shall be restrained or shielded".

IHSA International Hydraulic Safety Authority

"The International Hydraulic Safety Authority is the world leader in hydraulic safety training. Our hydraulic safety content as it relates to systems, occupational and environmental safety is the most comprehensive training available in this subject matter. In some jurisdictions hose whip restraints are required by law where there is risk to personnel from whipping hoses."

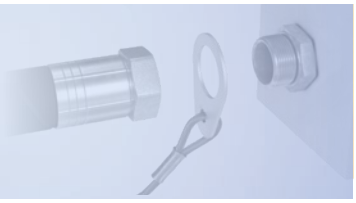
NOT SUITABLE FOR HIGH PRESSURE AIR AND COMPRESSED GAS HOSES N.B.

On the market there are hydraulic flexible hoses capable of exceeding the pressures indicated in this catalogue. In case you encounter such hoses, please contact the manufacturer for proper application guidance, and please refrain from using Stopflex for such applications without the proper manufacturer guidance.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

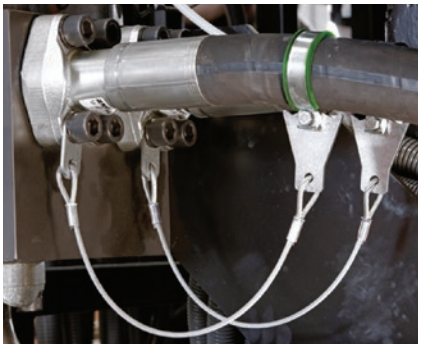
Stopflex+

Safety Retention Systems for High Pressure Hydraulic Hose Assemblies



+ BASICS OF USE

The assembly procedure of the application is fundamental to ensure the correct operation of the Stopflex system. Failure to carefully follow the assembly instructions can jeopardize the operation of the system. After numerous tests on manufacturer test benches, the ideal combination of materials and assembly procedures has been determined to ensure proper system operation. Proper Stopflex Items, item sizes, and correct applications and assembly all play an integral part in safe use of these products.





+ Given environmental conditions such as ultraviolet light, ozone, salt water, chemical agents (solvents, fuels, oils, greases, volatile chemical compounds, acids, disinfectants and other aggressive elements) early deterioration of the band seal can occur.
+ The seal must be replaced every 4 years if the band is not assembled;
+ The seal must be replaced every 2 years if the band is assembled;
+ The STOPFLEX system must never be re-used in case of rupture, slip-off or replacement of the hose as this will jeopardize the initial safety features of the system. Should the system be re-used, the assembler will be held entirely liable.
+ Please refer to all manufacturer published installation, safety, and user manual documentation when using this product. Please refer to Kuriyama of America Terms & Conditions and to manufacturer Terms & Conditions.

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