

FLAME ARRESTER

series



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フレイムアレスタについて About the flame arresters





配管ラインの途中等に設置され、外部の火災等による貯油槽への引火や、可燃性ガス配管における逆火を防止する逆火防止装置です。

This backfire prevention device is installed in the middle of a piping line to prevent ignition of an oil storage tank due to an external fire or backfire in a flammable gas piping.

作動タイプ Operation Type

設置場所、接続方法により3種類のタイプをラインナップしております。

We offer a lineup of three types depending on the installation location and connection method.

Model	Function	Caliber	Connection flange standard	Material	Element
1 	600N エンドオブライン End of line type	40 A 50 A 80 A 100 A 150 A	JIS 10K-FF JIS 10K-RF	FC200 SCS13 SCS14 SCS16	24mesh × 5 40mesh × 5 Crimp ribbon
2 	6020 インライン Inline type	25 A 40 A 50 A 80 A 100 A 150 A	ANSI 150Lb-FF ANSI 150Lb-RF	SCS13A SCS14A SCS16A	Crimp ribbon 
3 		15 A 20 A 25 A	Rc 1/2 Rc 3/4 Rc 1		

特徴 Features

▶ 水素ガス (group II C) 対応型 Hydrogen gas (group II C) compatible type

- 水素ガスは爆発グループII C*に分類され非常に燃えやすく、少量の点火源でも爆発する可能性があり適切な安全対策が必要
*The highest group in explosive gas classification
- Hydrogen gas is classified as explosion group IIC* and is highly flammable. Even a small amount of ignition source can cause an explosion, so appropriate safety measures are required.

- 爆発グループII C以外のII A, II B3, II Bなどのガスにも対応
■ Compatible with gases other than explosion group IIC, such as IIA, IIB3, and IIB
- ねじ込み接続タイプはII A対応型
■ Screw-in connection type is IIA compatible

▶ 双方向の外部着火源から火災逸走を防止 Prevents flame escape from external ignition sources in both directions

- プラント内外で発生した火災の際に火災の伝播を消滅し深刻な2次災害の発生を防止
■ In the event of a fire occurring inside or outside the plant, the spread of flames is suppressed, preventing the occurrence of serious secondary disasters.
- 出入口が対象構造となっており双方向からの火災逸走を防止
■ The entrance and exit are symmetrical to prevent flames from escaping from both directions.
- 水平・垂直方向どちらでも設置・使用可能
■ Can be installed and used in either horizontal or vertical orientation

▶ クリンプリボン式の消炎素子を使用 Uses a crimp ribbon type flame quenching element

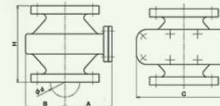
- クリンプリボン(波型構造部品)は薄い金属製の波板と同一素材の平板を交互に重ね合わせて間隙を構成し、爆発グループ(使用されるガス)により仕様を決定
■ Crimp ribbons (corrugated structural components) are made by alternating thin metal corrugated sheets with flat sheets of the same material to create gaps, and their specifications are determined by the explosion group (gas used).
- 材質はSUS316Lのみ
■ Only SUS316L material

▶ 国際標準規格ISO/IEC80079-49に準拠 Compliant with international standard ISO/IEC80079-49

- 当社のクリンプリボン式フレイムアレスタは、ISO/IEC80079-49 (旧規格ISO 16852) に定める試験ガスで実施
■ Our crimp ribbon flame arresters are tested using the test gases specified in ISO/IEC80079-49 (formerly ISO 16852).
- 性能確認試験はISO/IEC80079-49 (旧規格ISO 16852) に準拠
■ Performance verification tests are in accordance with ISO/IEC80079-49 (formerly ISO 16852)

寸法 Size

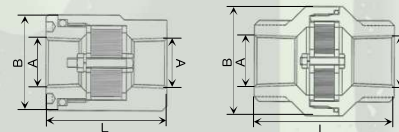
600N



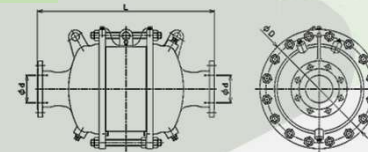
Material	Φd	A (mm)	B (mm)	C (mm)	JIS 10K		JPI 150Lb	
					H (mm)	Weight (kg)	H (mm)	Weight (kg)
SCS13 SCS14 SCS16	25	75	45	125	150	7	143	7
	40	85	60	155	160	9	155	9
	50	85	70	175	170	11	169	11
	80	130	110	255	206	22	210	22
	100	155	130	295	230	30	230	30
	150	205	185	400	280	48	280	48
	200	280	245	530	360	85	366	85
250	330	300	640	392	140	404	150	

6020 (Rc 1/2)

6020 (Rc 1, Rc 3/4)



6020



Model	Material	Φd	ΦD	L (mm)	Weight (kg)
6020-3U	JIS10K	25	210	400	26
		40	280	520	50
		50	305	526	60
		80	400	575	125
		100	445	665	130
		150	560	865	245
		25	210	400	26
	JPI150Lb	40	280	531	50
		50	305	542	60
		80	400	587	125
		100	445	675	130
		150	560	865	245

Model	Material	Φd	A (mm)	B (mm)	C (mm)	JIS 10K		JPI 150Lb	
						H (mm)	Weight (kg)	H (mm)	Weight (kg)
600N	FC200	25	75	45	125	142	8	143	10
		40	85	60	155	152	9	155	11
		50	85	70	175	169	11	169	13
		80	130	110	255	206	20	210	23
		100	155	130	295	218	30	230	35
		150	205	185	400	280	50	280	55
		200	280	245	530	352	90	366	100
		250	330	300	640	404	140	404	140
		300	390	360	760	482	190	482	190
		350	415	390	800	565	300	565	300

Service Condition

Des.Press : 0.5MPa Des.Temp : 60°C
 Oper.Press : 1.0kPa Oper.Temp : Below 60°C
 Hyd.Test Press : 1.0MPa ※No condensation/No freezing
 Air Tight Test : 0.1MPa
 Ex.Group : IIA

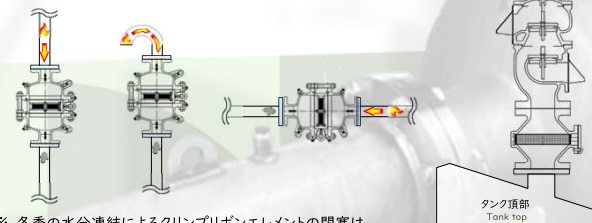
Model	Material	A	B	L (mm)	Weight (kg)
6020-TI	C3604B SUS304 SUS316 SUS316L	Rc 1/2	Φ40	51	0.6
		Rc 3/4	Φ60	79	0.8
		Rc 1	Φ70	90	1.1

Service Condition

Des.Press : 0.2MPa Des.Temp : 60°C
 Oper.Press : 1.0kPa Oper.Temp : 15~40°C
 Hyd.Test Press : 1.0MPa ※No condensation/No freezing
 Leak Test : 0.22MPa
 Ex.Group : IIA~IIC

Model	Material	Φd	ΦD	L (mm)	Weight (kg)
6020-5L	JIS10K	25	210	349	22
		40	280	473	47
		50	305	475	50
		80	400	524	112
		100	445	614	120
		150	560	814	220
		25	210	349	22
	JPI150Lb	40	280	481	47
		50	305	491	50
		80	400	536	112
		100	445	624	120
		150	560	814	220

設置イメージ Installation image



※ 冬季の水分凍結によるクリンプリボン要素の閉塞はフレイムアレスタ本来の機能が維持できなくなりますので凍結防止策を講じる必要があります
 *If the crimp ribbon element becomes clogged due to frozen water in winter, the flame arrester will no longer function properly, so anti-freeze measures must be taken.

製品情報はこちら
Product information here

