# Sealing systems suitable for general applications

Sealing system STD

plug adjustment

• stainless diaphragm

• Secondary sealing: V-diaphragm, delta thrust collar

thrust collar

cover sealing

# More safety for seve

ere applications	5
m FSN / CASN	

# Sealing system

- plug adjustment
- stuffing box adjustment
- Tertiary sealing: triple safety stem packing
  - cover sealing
  - stainless diaphragm

## Secondary sealing:

V-diaphragm and delta thrust collar

Primary sealing: PTFE-sleeve

Type / Application Sealing materials						
	V-diaphragm	Delta collar	Cover sealing	Packing		
<b>Type STD</b> - T <sub>max</sub> 230°C Standard sealing for general applications	PTFE	PTFE	PTFE	-		
<b>Type FS</b> - Tmax 230°C Fire-Safe-sealing (API 607) with additional graphite packing	PTFE	graphite	graphite/metal	graphite		
<b>Type CA</b> - T <sub>max</sub> 230°C Chemistry sealing with additional PTFE packing for fugitive media	PTFE	PTFE	PTFE	PTFE		

• **Primary sealing**: PTFE-sleeve

The PTFE sleeve has a decisive influence on the maximum operating temperature. Material selection according to PT-diagram.

Tupe / Application	Sooling motor	iala		
Type / Application	Sealing mater		Cover sealing	Packing
<b>Type FSN</b> - T <sub>max</sub> 280°C Fire-Safe safety sealing (API 607) for fluctuating temperatures with triple safety stem packing (graphite)	PTFE	graphite	graphite/metal	3x graphite
<b>Type CASN</b> - T <sub>max</sub> 230°C Chemistry safety sealing for fluctuat- ing temperatures with triple safety stem packing (PTFE)	PTFE	PTFE	PTFE	3x PTFE
<b>Type FSN-SL</b> - T <sub>max</sub> 280°C Fire-Safe safety sealing (API 607) like type FSN, but with disk springs for self-adjusting pressure	PTFE	graphite	graphite/metal	3x graphite
<b>Type CASN-SL</b> - T <sub>max</sub> 230°C Chemistry safety sealing like type CASN, but with disk springs for self-adjusting pressure	PTFE	PTFE	PTFE	3x PTFE
Sealing system FSN-SL / CASI	N-SL			
O-rings in the	e cover and o	n the shaft		
protects the s	orings agains	t corrosion	•	
	with desk	springs for		
self-adjustir	with desk ng pressure (I		-//	
		ife-loaded)	$\cdot$	
Sealing m	ng pressure (I	ife-loaded) to table for		0
Sealing m	ng pressure (l naterials acc. ire-Safe ( <b>Typ</b>	to table for e FSN-SL)		0

Sealing system FS / CA

• Plug and packing adjustable together Tertiary sealing: Packing to atmosphere

Sealing materials for Fire-Safe (Type FS) and chemical applications (Type CA) acc. to table

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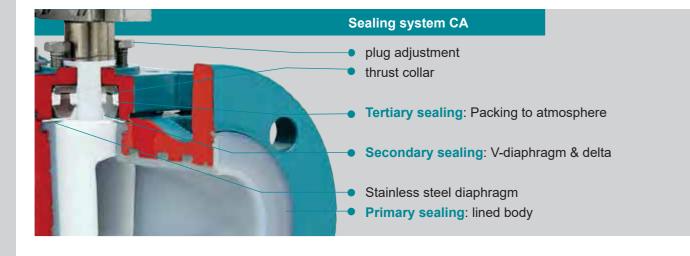




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# Sealing systems for all lined plug valves

# Special sealing systems



Type / Application	Sealing materials				
	V-diaphragm	Delta collar	Cover sealing	Packing	
<b>Type CA</b> - T <sub>max</sub> 210°C Chemistry sealing with additional PTFE packing for fugitive media	PTFE	PTFE	PTFE		
<b>Type SAFE-LINED</b> - T <sub>max</sub> 210°C Chemistry safety sealing for fluctua- ting temperatures with triple safety stem packing (PTFE)	PTFE	PTFE	PTFE	3x PTFE	
<b>Type SAFE-LINED-SL</b> - T <sub>max</sub> 210°C Chemistry safety sealing like type SAFE-LINED, but with desk springs for self-adjusting pressure	PTFE	PTFE	PTFE	3x PTFE	

Sleeve has a decisive influence on the maximum operating temperature. Material selection according to PT-diagram.

#### Sealing system SAFE-LINED-SL

with disc springs (life-loaded), o-rings in the cover and on the shaft protect the springs from corrosion

#### Sealing system SAFE-LINED

- plug adjustment
- packing adjustable
- thrust collar
- lined cover
- Secondary sealing: V-diaphragm, delta thrust collar
- Primary sealing: lined body

## **Chevron packing (option)**

- increases the contact pressure (when pressure builds up on the safety stem packing)
- for toxic and fugitive media
- high wear resistance



#### Chlorine / gas applications (option)

- approved for chlorine applications
- ideal for media with changing state of aggregate (e.g. liquid to gas, vice versa)
- vacuum capable



### **Detection ports (option)**

- detection ports for early recognition of potential leakages
- sniffing at sealing surfaces to atmosphere

- Tertiary sealing: Packing to atmosphere

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