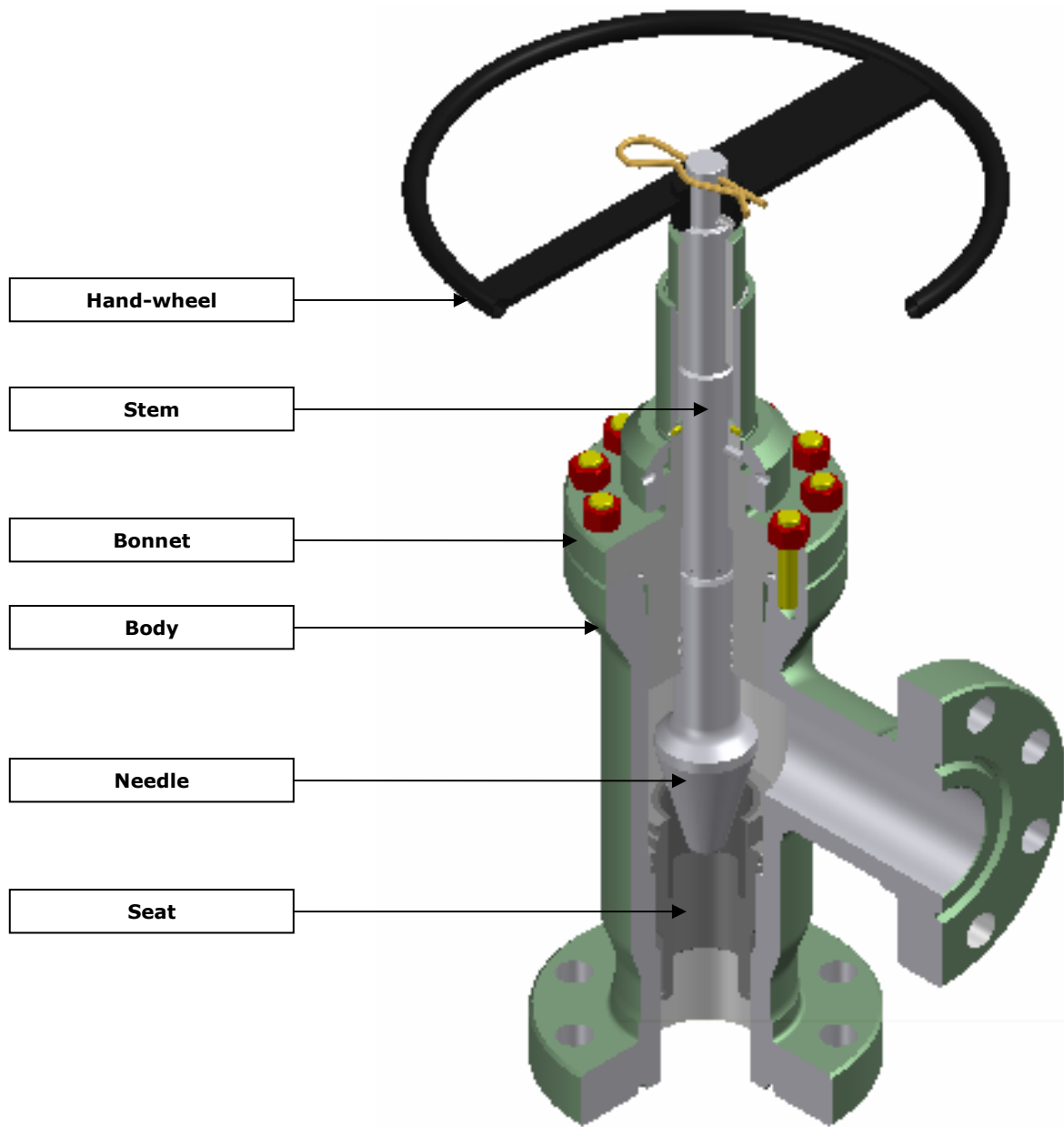




# **CHOKES**

## **API 6A**

### **Needle Chokes**



## **Adjustable Needle Chokes Type BCN**



## TECHNICAL DESCRIPTION

### **Description:**

The BREDA ENERGIA Adjustable Choke type BCN is designed for high performance in critical applications such as gas well high pressure drops, abrasive flow and corrosive conditions. The choke has an externally controlled variable-area orifice coupled with an orifice-area indicating mechanism. Typical application include wellheads and well testing, manifolds, heaters, critical service.

### **Design Code:**

API 6A / ISO 10423

### **Remarks:**

On request, Breda Energia will issue various technical solutions not listed in this catalogue. Years of experience in products for distribution of oil & gas allows Breda Energia to supply products on special client specifications.



## - API 6A -

### Product Range

Service	Pressure Range API 6A ( Psi )		
<b>Standard Range ( Inch )</b>	<b>API 2000 - 3000 - 5000</b>	<b>API 10000</b>	<b>API 15000</b>
	1.13/16 up to 7.1/16	1.13/16 up to 7.1/16	1.13/16 up to 5.1/8
	<b>ORIFICE Size</b>		
	<b>1", 2", 3", 4", 6"</b>		

### Material requirements

Service Conditions	Trim	Minimum material requirements	
API 6A Classification		Body, bonnet end and outlet connections	Pressure-controlling parts, stems and mandrel hangers
General Service	<b>AA</b>	Carbon or low-alloy steel	Carbon or low-alloy steel
General Service	<b>BB</b>	Carbon or low-alloy steel	Stainless Steel
General Service	<b>CC</b>	Stainless Steel	Stainless Steel
Sour Service <sup>a</sup>	<b>DD</b>	Carbon or low-alloy steel <sup>b</sup>	Carbon or low-alloy steel <sup>b</sup>
Sour Service <sup>a</sup>	<b>EE</b>	Carbon or low-alloy steel <sup>b</sup>	Stainless Steel <sup>b</sup>
Sour Service <sup>a</sup>	<b>FF</b>	Stainless Steel <sup>b</sup>	Stainless Steel <sup>b</sup>
Sour Service <sup>a</sup>	<b>HH</b>	CRAs <sup>b</sup>	CRAs <sup>b</sup>

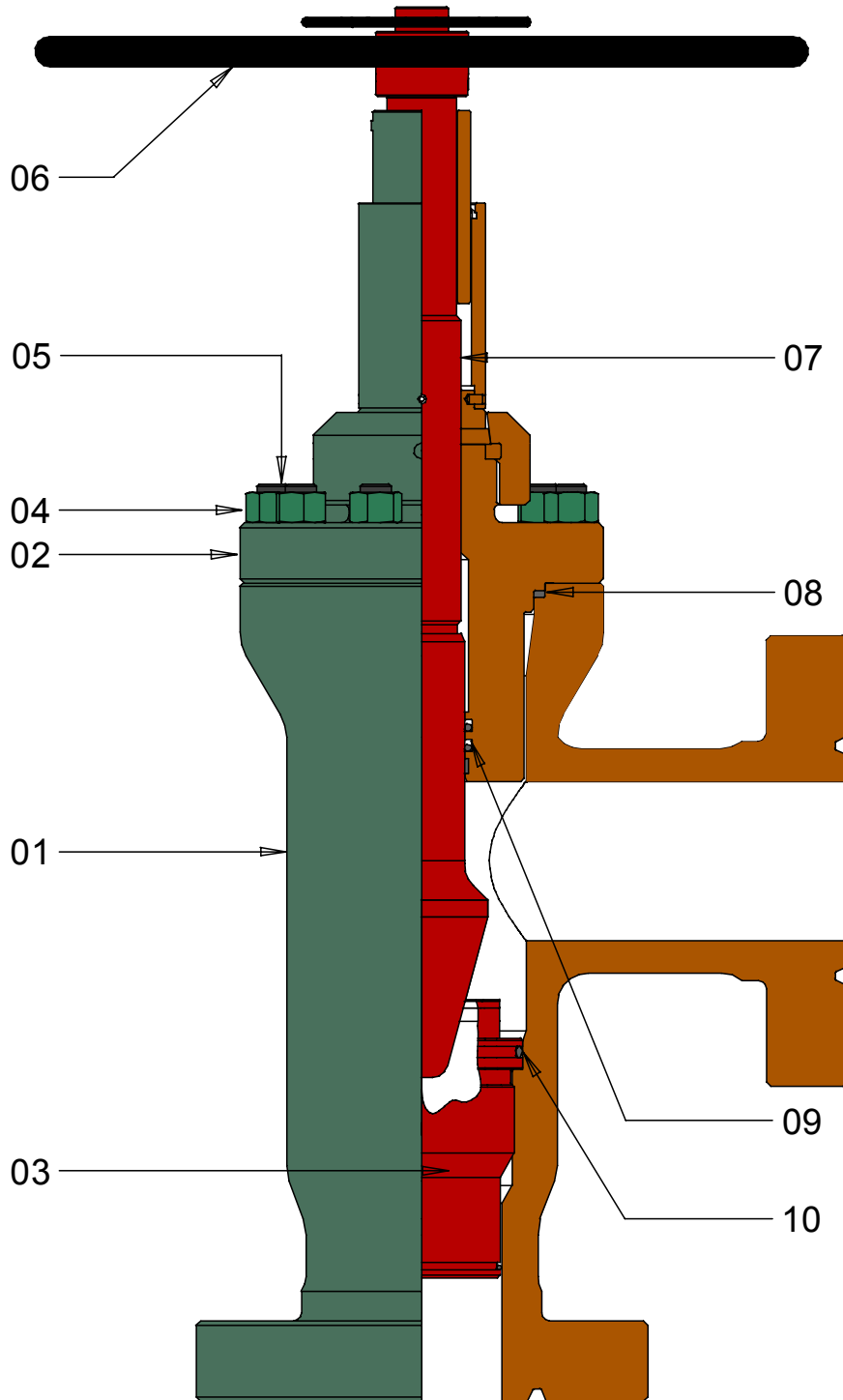
<sup>a</sup> As defined by NACE MR 0175; <sup>b</sup> In compliance with NACE MR 0175.

### Temperature ratings

Temperature Classification	Operating Range			
	°F from min. up to Max.		°C from min. up to Max.	
	min.	Max.	min.	Max.
<b>K</b>	-75	180	-60	82
<b>L</b>	-50	180	-46	82
<b>P</b>	-20	180	-29	82
<b>R</b>	Room temperature		Room temperature	
<b>S</b>	0	150	-18	66
<b>T</b>	0	180	-18	82
<b>U</b>	0	250	-18	121
<b>V</b>	35	250	2	121



## Part List & Spare Parts



Part N°	Description	Recommended Spare Parts	Part N°	Description	Recommended Spare Parts
<b>01</b>	Body	n.a.	<b>06</b>	Hand-wheel	n.a.
<b>02</b>	Bonnet	n.a.	<b>07</b>	Stem+Needle	n.a.
<b>03</b>	Seat	<b>Yes</b>	<b>08</b>	Body Bonnet gasket	<b>Yes</b>
<b>04</b>	Body Stud Nuts	n.a.	<b>09</b>	Stem gasket	<b>Yes</b>
<b>05</b>	Body Studs	n.a.	<b>10</b>	Seat gasket	<b>Yes</b>