

Eshteal Arak Industrial Engineering Company is the only manufacturer of high-capacity rotary cup burners in the country, and these burners are used by all boiler companies in the country. Among the unique products produced by this company are power valves that are designed for saturated and superheated steam lines. This product was produced for the first time in the country in 2014 in the Mobarake steel complex and at a pressure of 70 bar. It has been used successfully. Eshteal Arak Industrial Engineering Company has been modernizing its production lines since 2003 and is currently equipped with more than 98 machines, 61 of which are CNC lathes and milling centers (referred to at the end), stepped into the field of producing products with modern sophisticated technology. It should be mentioned that this company has succeeded in obtaining the knowledge-based badge on burners and valves during two consecutive periods, and in order to enhance the brand and satisfy customers, the necessary standards such as ISIRI 7595, ISIRI 7594, ISO 3834, ISO 9001:2015 and implemented 5S



These valves are high capacity nozzle type safety valves and they meet the requirements of the ASME Boiler and Pressure Vessel Code, Section I

## Steam Safety Valve



## ESHTEAL ARAK

INDUSTRIAL ENGINEERING CO.  
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and precision tools for steam boilers

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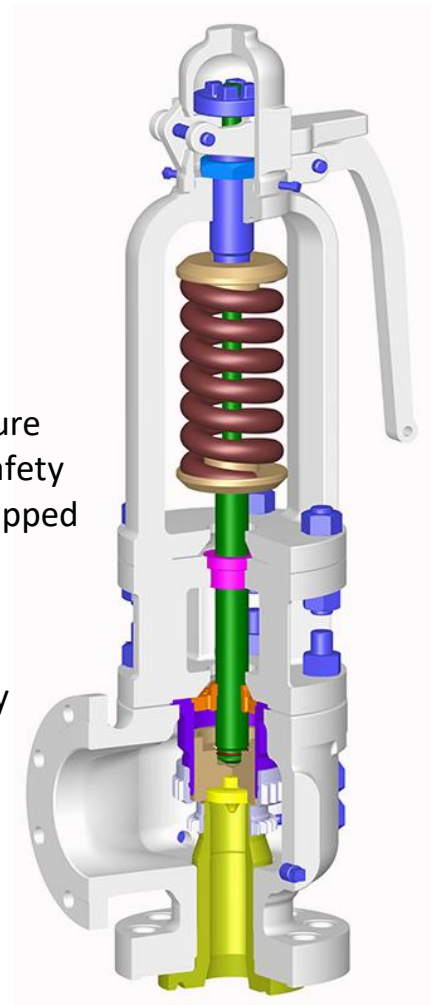
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## Steam Safety Valve

Type HCA

### Description

Style HCA is a high capacity reaction type safety valve. In Style HCA valve, a cooling spool is placed between the body and bonnet to protect the spring from exposure to extreme temperatures. All Style HCA welded inlet safety valves are equipped with hydrostatic test plugs and shipped in two parts: valve body and valve superstructure. This makes handling easier for installation welding. Style HCA safety valve opens with a sharp pop at the set pressure and remains open, relieving rated capacity at 3% overpressure. As inlet pressure decays below the opening pressure, the safety valve remains open until a pressure about 4% below the set pressure is reached. At that point, the safety valve closes sharply.



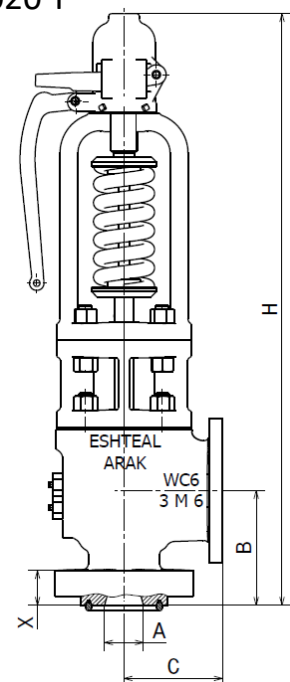
### Applications

This valve designed for saturated and superheated steam applications. Style HCA is a high temperature version of the Style HC, with an alloy steel construction suitable to temperatures up to 1020°F

### Dimensions and pipe connections

Dimensions (approx.) in mm

Valve Type			HCA - 57	
Valve Size (inlet-orifice-outlet)			3 M 6	
Orifice Area ( cm <sup>2</sup> )			23.23	
Connections			ANSI Class Flanged Inlet	3 in - 1500
			ANSI Class Flanged Outlet	6 in - 150
Dimensions	Used to Find Bolt Length		X	67.5
	Inlet I.D.		A	76.2
	Center to face of	Inlet	B	222
		Outlet	C	190
	Height		H	1150



## Material

Item	Part Name	Material
1	Body	Alloy steel
2	Forked lever	S.G iron
3	Nozzle	Stainless steel
4	Nozzle ring	Stainless steel
5	Nozzle ring set screw	Stainless steel
6	Spindle nut	Carbon steel
7	Guide	Stainless steel
8	Guide ring	Stainless steel
9	Guide ring set screw	Stainless steel
10	Ring	Stainless steel
11	Hand lever	Carbon steel
12	Disc holder	Monel
13	Disc bushing	Stainless steel
14	Disc insert	Stainless steel /Stellite
15	Guide aligner	Bronze
16	Spindle assembly	Stainless steel /Monel
17	Cooling spool	Alloy steel
18	Cooling spool aligner	Bronze
19	Bonnet	Alloy steel
20	Spring	Alloy steel
21	Spring washer	Carbon steel
22	Adjusting screw	Stainless steel
23	Adjusting screw lock nut	Carbon steel
24	Cap	Carbon steel

