

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



This valve comprises two valves, a stop valve and a check valve. Feed Check Valves are one of the most important components of boiler which control the flow of water from feed pump to the boiler and further prevents the backflow of water from boiler to pump when the boiler pressure is more than the pump pressure or when feed pump stops working.

The material of the body is Cast Iron up to the maximum pressure of 11bar and Cast Steel up to the maximum pressure of 25bar.

This valve is available in the sizes of 1", 1 ½", 2", 3"

## Feed Check Valve



## ESHTEAL ARAK

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and precision tools for steam boilers

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## Feed check valve

Type FCV

### Description

This unit comprises two valves, a stop valve and a check valve. An important feature of the design is the accessibility of the check valve which can be examined, by removing the inlet straight bottom part.



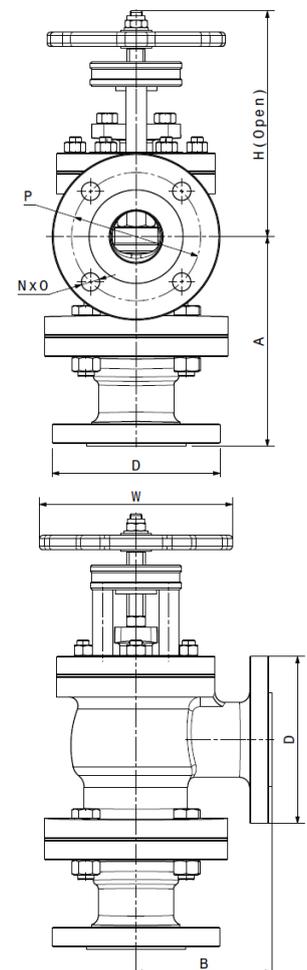
### Applications

Feed Check Valve is one of the most important components of boiler which controls the flow of water from feed pump to the boiler and further prevents the backflow of water from boiler to pump when the boiler pressure is more than the pump pressure or when feed pump stops working.

### Size and Pipe Connections

Dimensions (approx.) in mm

Body material	Dimensions and Standard of Flange									
	BS 10 Table F (Inlet and outlet)									
	Size	D	N	O	P	A	B	W	H	
Bronze	1" DN25	121	4	18	87.5	186	82	100	230	
	1 1/2" DN40	140	4	18	105	189	128	190	315	
Cast iron	2" DN50	165	4	18	127	206	132	190	330	
	3" DN80	203	8	18	165	267	154	240	415	
Cast steel	BS 10 Table H (Inlet and outlet)									
	1 1/2" DN40	140	4	18	105	193	128	190	315	
	2" DN50	165	4	18	127	212	138	190	330	
	3" DN80	203	8	18	165	274	160	240	415	



#### Inlet and Outlet flange

N = No. of holes

O = Dia. of holes

P = Pitch circle dia.

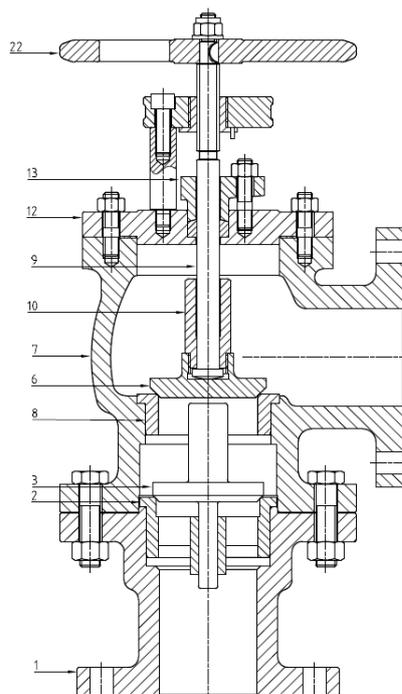
## Limiting conditions

Pressure / temperature rating

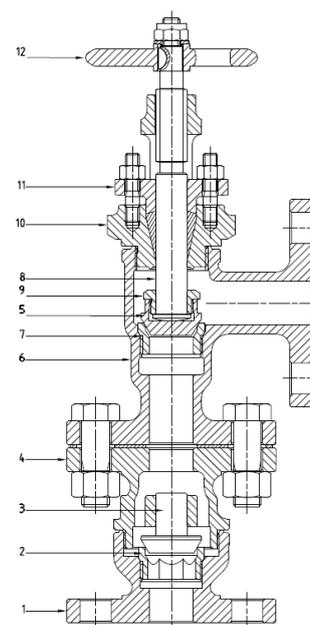
Body material	Bronze	Cast iron	Cast steel
Temperature (°C)	220	210	200
Max. Working pressure (bar)	10	11	20

## Materials

Item	Part Name	Body material		
		Bronze	Cast iron	Cast steel
1	Check valve body	Bronze	Cast iron	Cast steel
2	Check valve seat ring	Stainless steel	Nickel alloy	Nickel alloy
3	Check valve Disc	Stainless steel	Stainless steel	Stainless steel
4	Check valve bonnet	Bronze	-	-
5	Feed valve Disc	Stainless steel	Stainless steel	Stainless steel
6	Feed valve body	Bronze	Cast iron	Cast steel
7	Feed valve seat ring	Stainless steel	Stainless steel	Stainless steel
8	Stem	Brass	Stainless steel	Stainless steel
9	Disc nut	Brass	Brass	Brass
10	Feed valve bonnet	Bronze	ST 52	ST 52
11	Gland flange	Bronze	Bronze	Bronze
12	Hand wheel	Cast iron	Cast iron	Cast iron



Size (DN40, DN50, DN80)



Size (DN25)