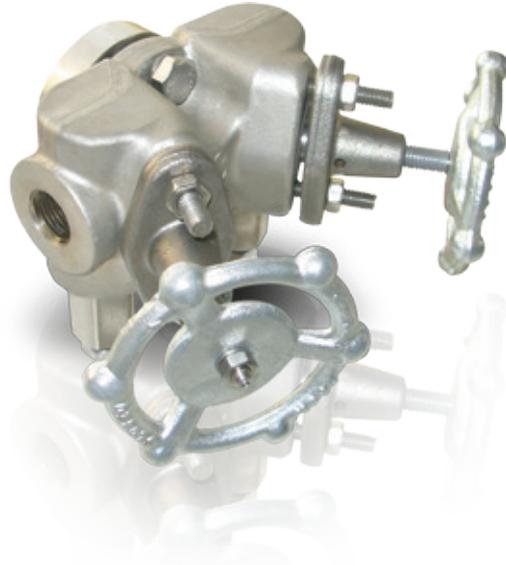
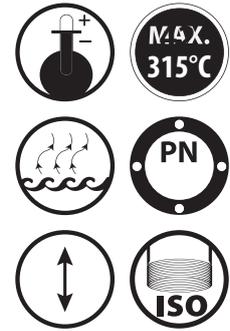


# Steam Trap Valve Station

## BK-33/TD (THERMODYNAMIC)



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### DESIGN

#### Product Features

|               |                          |
|---------------|--------------------------|
| Body          | Stainless Steel AISI 304 |
| Seat and Disc | Stainless Steel AISI 420 |
| Internals     | Stainless Steel          |
| Hand Wheel    | Carbon Steel             |
| Connections   | Threaded, Socket         |

#### Operating Conditions

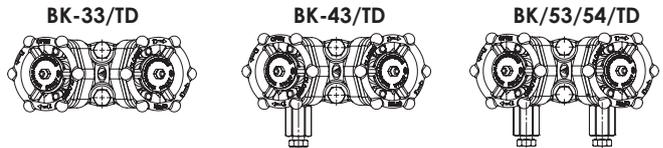
|                         |                |
|-------------------------|----------------|
| Max. Operating Pressure | 42 bar (250°C) |
| Max. Operating Temp.    | 315°C          |

### Operation

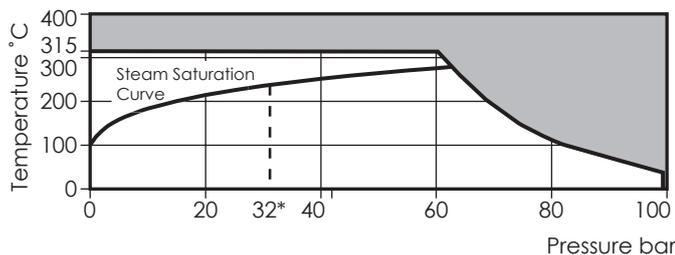
In operating conditions, opposite pressure should not exceed the 80% of the front pressure. According to condensate load, BK-33 TD may discharge intermittently. Designed for the steam pressure up to 42 bar and quick discharging. BK-33TD can easily be disassembled individually and be maintained.

### Installation

BK-33 TD, thermodynamic steam trap can easily be installed to the pipe connector. Ideally, steam trap should be installed on a horizontal pipeline. The flow through the pipe connector should be in the arrow direction. The connection distance of the steam trap must be on the horizontal plate.



### Pressure and Temperature Limitations

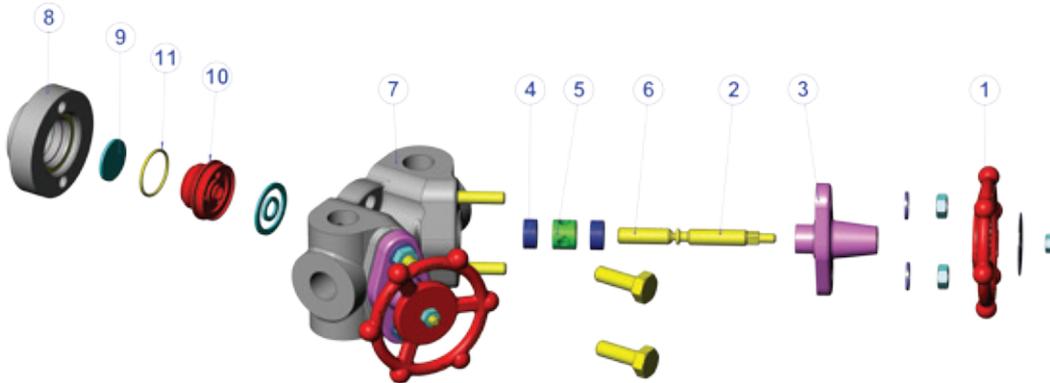


| Type     | Definition                                                                                    | Flow Direction |
|----------|-----------------------------------------------------------------------------------------------|----------------|
| BK-33 TD | Pipe connector with 2 stop valves + Thermodynamic steam trap                                  | Left to right  |
| BK-43 TD | Pipe connector with 2 stop valves + Thermodynamic steam trap + Discharging valve              | Left to right  |
| BK-53 TD | Pipe connector with 2 stop valves + Thermodynamic steam trap + Discharging valve + Test valve | Left to right  |
| BK-54 TD | Pipe connector with 2 stop valves + Thermodynamic steam trap + Discharging valve + Test valve | Right to left  |

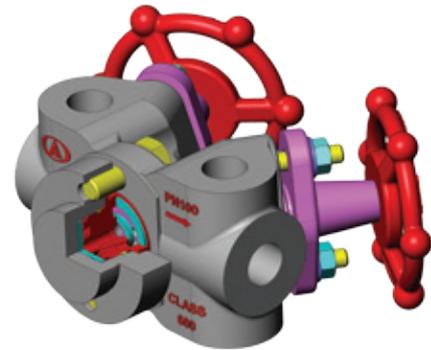
## PIPELINE CONNECTORS

### BK-33/TD (THERMODYNAMIC)

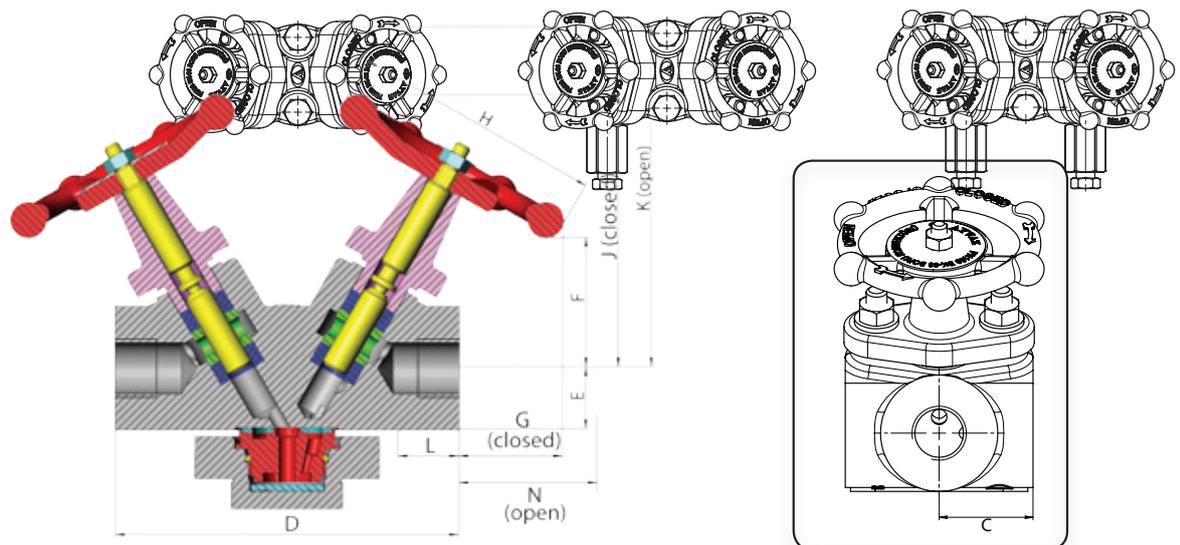
#### Construction



| Part list |             |                           |
|-----------|-------------|---------------------------|
| No        | Part Name   | Material                  |
| 1         | Hand Wheel  | Carbon Steel C 22.8       |
| 2         | Steam-A     | Stainless Steel AISI 304  |
| 3         | Cover       | Carbon Steel C 22.8       |
| 4         | Stem Gasket | Graphite                  |
| 5         | Bearing     | Carbon Steel St 37.2      |
| 6         | Stem-B      | Stainless Steel AISI 304  |
| 7         | Body        | Stainless Steel AISI 304L |
| 8         | Seat Guide  | Stainless Steel AISI 304  |
| 9         | Disc        | Stainless Steel AISI 420  |
| 10        | Seat        | Stainless Steel AISI 420  |
| 11        | O-ring      | Silicone                  |



#### Dimensions



| Size | BK-33 SK     | BK-43 SK     | BK-53 SK     | BK-54 SK     | THREADED |        |        |        |        |        |        |        |        |        |
|------|--------------|--------------|--------------|--------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|      |              |              |              |              | C (mm)   | D (mm) | E (mm) | F (mm) | G (mm) | H (mm) | J (mm) | K (mm) | L (mm) | N (mm) |
| 1/2" | 703450214111 | 703450224111 | 703450234111 | 703450244111 | 36       | 125    | 25     | 50     | 35     | 90     | 99     | 115    | 22     | 50     |
| 3/4" | 703450214112 | 703450224112 | 703450234112 | 703450244112 | 36       | 125    | 25     | 50     | 35     | 90     | 99     | 115    | 22     | 50     |

All the dimensions in the table are given in "mm".

Subject to technical alterations and deviations resulting from the manufacturing process without giving any notification.