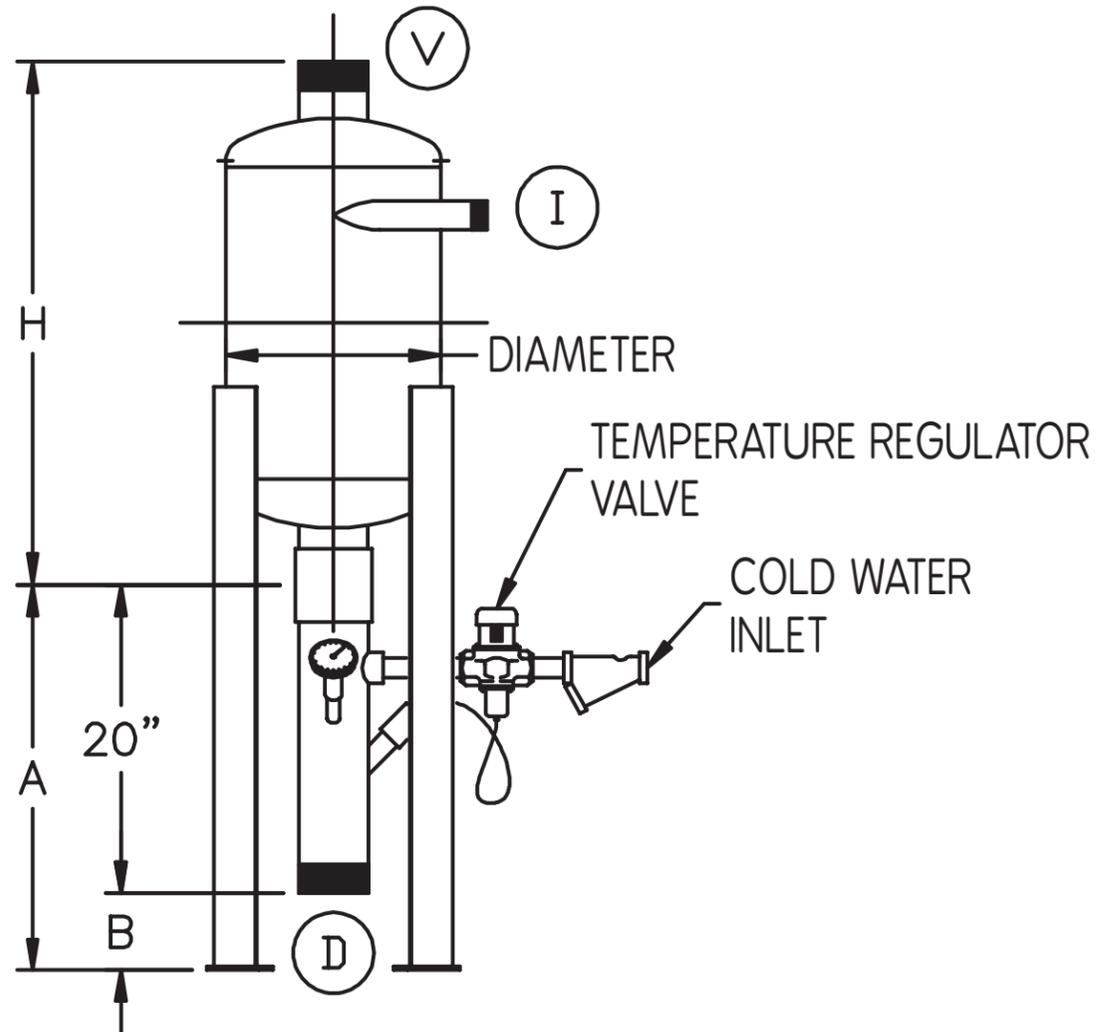


# DIMENSION DATA

## LOCKWOOD BLOWDOWN SEPARATOR



BLOWDOWN SEPARATOR SIZE		
MODE	DIAMETER	HEIGHT
BDS20	14"	22"
BDS34	14"	34"
BDS56	14"	56"

DRAIN SIZE DETERMINES LEG LENGTH		
"D" DRAIN SIZE	A	B
"D" = 2"	22"	2"
"D" = 2-1/2"	23"	3"
"D" = 3"	24"	4"
"D" = 4"	25"	5"
"D" = 5"	30"	10"
"D" = 6"	34"	14"

CONNECTIONS SIZES PER SELECTOR CHART		
"I" INLET	"D" DRAIN	"V" VENT
1", 1-1/4", 1-1/2", 2", 2-1/2", OR 3"	2", 2-1/2", 3", 4", 5", 6", OR 8"	2", 2-1/2", 3", 4", 5", 6", OR 8"

### LOCKWOOD PRODUCTS, INC.

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 www.lockwoodproducts.com  
 Local (404) 505-2520 • WATS (800) 365-1500 • FAX (404) 505-2518



## TYPE BDS BLOWDOWN SEPARATORS



ILLUSTRATED WITH OPTIONAL EQUIPMENT

75<sup>@Years</sup>  
1938 - 2013

# BLOWDOWN SEPARATOR

## STANDARD FEATURES:

- Tanks constructed in accordance with A.S.M.E. Code Section VIII, Div. 1 and National Board Certification
- Standard 250 PSI Construction
- Special thickness available to meet local and state codes
- High velocity circulation allows the pressure to be released, steam flash to exit the vent, and water and sludge to pass through the drain
- Stainless wear plate to retard erosion
- Aftercooling assembly available to meet limits for temperature control for entrance to public sewer.



## BLOWDOWN SEPARATOR ACCESSORIES



**Thermometer:** 3" bi-metal, stainless steel case, rust resistant, finished in oven-baked enamel.



**Pressure Gauge:** 4-1/2" stainless steel, 1/4" NPT bottom connection.



**Temperature Regulating Valve:** Use with aftercooler drain fitting to automatically control cooling water.



**Y-Strainer:** Cast iron with mesh screen to protect temperature regulating valve.



**SCV Check Valve:** Stainless steel, spring-loaded for added durability. Use with aftercooler assembly for cold water inlet.



**Aftercooling Drain Fitting:** Available threaded or flanged.

# BLOWDOWN SEPARATOR

## SEPARATOR SELECTOR CHARTS--INTERMITTENT BLOWDOWN BOILERS 0-300 PSI OPERATING PRESSURE

BOILER BLOWDOWN SEPARATOR SELECTION CHART																					
BD Connection:		1"				1-1/4"				1-1/2"				2"			2-1/2"				
Hght / Inlt / Drn / Vnt:		H	I	D	V	H	I	D	V	H	I	D	V	H	I	D	V				
Boiler	15					20	1-1/4	3	4	20	1-1/2	3	4	20	2	4	5	34	2-1/2	5	6
	50	20	1	2	2-1/2	20	1-1/4	3	4	34	1-1/2	3	4	34	2	4	5	34	2-1/2	5	6
Operating Pressure	100	20	1	3	2-1/2	34	1-1/4	4	4	34	1-1/2	4	4	34	2	5	5	34	2-1/2	6	6
	125	34	1	3	3	34	1-1/4	4	4	34	1-1/2	4	4	34	2	5	5				
Pressure	150	34	1	3	3	34	1-1/4	4	4	34	1-1/2	4	5								
	175	34	1	3	4	34	1-1/4	4	4	34	1-1/2	4	5								
	200	34	1	3	4	34	1-1/4	4	5												
	225	34	1	4	4																

TEMPERATURE REGULATING VALVE SELECTION CHART																
BD Connection:		1"			1-1/4"			1-1/2"			2"			2-1/2"		
Water Pressure:		40#	50#	60#	40#	50#	60#	40#	50#	60#	40#	50#	60#	40#	50#	60#
Boiler	50	1/2	1/2	1/2	1	1	1	1-1/4	1	1	1-1/4	1-1/4	1-1/4	2	1-1/2	1-1/2
	100	1	3/4	3/4	1	1	1	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	1-1/4	2	2	2
Operating Pressure	125	1	3/4	3/4	1-1/4	1	1	1-1/4	1-1/4	1-1/4	2	2	1-1/2			
	175	1	1	1	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4						
	225	1	1	1												

## BLOWDOWN SEPARATOR PACKAGE SUGGESTED SPECIFICATIONS

### Blowdown Separator:

Furnish and install as shown on plans:

( ) Boiler blow-down separator(s). Model No. BDS\_\_\_\_\_ w/a \_\_\_\_\_" inlet \_\_\_\_\_" drain \_\_\_\_\_" vent for a boiler operating at \_\_\_\_\_ psig. With a \_\_\_\_\_" intermittent blowdown connection.

The separator is to be welded carbon steel construction designed and stamped in accordance with ASME code SEC VIII, DIV. I. for 250 psig @ 450 deg. F and National Board Certified, having a plate thickness of 5/16".

Connections include a tangential inlet with stainless steel striking plate at point of impingement, a steam vent for release of steam to atmosphere, and bottom drain. The exterior to be a shop primer finish. All as manufactured by Lockwood Products, Atlanta, GA, USA.

### Separator Accessories:

- Floor Mounting Legs
- Drain Fitting
- Temperature Regulating Valve
- Bi-metal Thermometer
- Y Strainer
- Stainless Steel Check Valve
- Pressure Gauge