

RECOMMENDED BOILER DRAIN AND BLOWDOWN VALVES FOR BRYAN BOILERS (SIZED FOR A.S.M.E. CODES SECTION I & SECTION IV)				
BOILER MODEL	WATER BOILER DRAIN CONN.'S (IN. NPT) (QTY.)/SIZE	STEAM BOILER BLOWDOWN CONNECTIONS		VALVE SELECTION SIZING & RATINGS REQUIRED
		15 PSI (IN. NPT) (QTY.)/SIZE	150 PSI (IN. NPT) (QTY.)/SIZE	
DR / F250	(1) / 1 / 3/4	—	(1) / 1	<b>ASME SECTION IV (30 - 160# WATER)</b> Requires one drain valve, full size or same size as as the drain connection. Boilers with two drain connections require one valve off each connection. Drain valves for water boilers up to 160# must be rated for at least 250 <sup>0</sup> F and have a pressure rating at least equal to the design maximum working pressure of the boiler, but, never less than 30 PSIG.
DR / F350 <sup>1</sup>	(1) / 1 / 3/4	(1) / 1	(1) / 1	
DR / F450	(1) / 1 / 3/4	(1) / 1	(1) / 1	
DR / F650	(1) / 1 / 3/4	(1) / 1	(1) / 1	
DR / F850	(1) / 1 / 3/4	(1) / 1	(1) / 1	
CLM90 <sup>2</sup>	(1) / 1-1/2	(1) / 1	(1) / 1	<b>ASME SECTION IV (15# STEAM)</b> Requires one blowdown valve, full size or same size as blowdown connection. Boilers with two blowdown connections require one valve off each connection. Blowdown valves for 15# steam boilers must be rated for at least 250 <sup>0</sup> F and have a pressure rating at least equal to the design, but, never less than 30 PSIG.
CLM120 <sup>2</sup>	(1) / 1-1/2	(1) / 1-1/4	(1) / 1	
CLM150 <sup>2</sup>	(1) / 1-1/2	(1) / 1-1/4	(1) / 1	
CLM180 <sup>2</sup>	(1) / 1-1/2	(1) / 1-1/4	(1) / 1	
CLM210 <sup>2</sup>	(1) / 1-1/2	(1) / 1-1/2	(1) / 1	
CLM240 <sup>2</sup>	(1) / 1-1/2	(1) / 1-1/2	(1) / 1	
CLM270 <sup>2</sup>	(1) / 1-1/2	(1) / 1-1/2	(1) / 1	
CLM300 <sup>2</sup>	(1) / 1-1/2	(1) / 1-1/2	(1) / 1	
AB90	(1) / 1	(1) / 1	(1) / 1	
AB120	(1) / 1	(1) / 1-1/4	(1) / 1	
AB150	(1) / 1	(1) / 1-1/4	(1) / 1	
AB200	(1) / 1	(1) / 1-1/4	(1) / 1	
AB250	(1) / 1	(1) / 1-1/2	(1) / 1	
AB300	(1) / 1	(1) / 1-1/2	(1) / 1	
K250 <sup>3</sup>	(1) / 2	(1) / 1-1/2	(1) / 1	<b>ASME SECTION I (ABOVE 15# STEAM)</b> Requires two blowdown valves in series, one quick opening and one slow opening valve, or two slow slow opening valves. Boilers with two blowdown connections require same as above or one quick opening valve off each connection plus a manifold connected off these valves to another slow opening valve, all valves full size of the blowdown connection. Blowdown valves for high pressure steam boilers must have a pressure rating as required below:
K300 <sup>3</sup>	(1) / 2	(1) / 1-1/2	(1) / 1	
K350	(1) / 2	(1) / 1-1/2	(1) / 1	
K400	(1) / 2	(1) / 1-1/2	(1) / 1	
K450	(1) / 2	(1) / 1-1/2	(1) / 1	
K500	(1) / 2	(1) / 1-1/2	(1) / 1	
K550	(1) / 2	(1) / 2	(1) / 1	
K600	(1) / 2	(1) / 2	(1) / 1	
K650	(1) / 2	(1) / 2	(1) / 1	
RV200 <sup>3</sup>	(1) / 2	(1) / 1-1/2	(1) / 1	
RV250 <sup>3</sup>	(1) / 2	(1) / 1-1/2	(1) / 1	
RV300 <sup>3</sup>	(1) / 2	(1) / 1-1/2	(1) / 1	
RV350	(1) / 2	(1) / 1-1/2	(1) / 1	
RV400	(1) / 2	(1) / 1-1/2	(1) / 1	
RV450	(1) / 2	(1) / 1-1/2	(1) / 1	
RV500	(1) / 2	(1) / 1-1/2	(1) / 1	
RV550	(1) / 2	(1) / 2	(1) / 1	
RV600	(1) / 2	(1) / 2	(1) / 1	
RV700	(1) / 2	(1) / 2	(1) / 1	
RV800	(1) / 2	(1) / 2	(1) / 1	
RW850	(2) / 2	(2) / 2	(2) / 1	
RW1050	(2) / 2	(2) / 2	(2) / 1	
RW1260	(2) / 2	(2) / 2	(2) / 1	
RW1500	(2) / 2	(2) / 2	(2) / 1	
RW1700	(2) / 2	(2) / 2	(2) / 1	
RW1900	(2) / 2	(2) / 2	(2) / 1	
RW2100	(2) / 2	(2) / 2	(2) / 1	

BOILER SAFETY RELIEF VALVE SET PRESSURE	BLOWDOWN VALVE PRESSURE RATING
100# OR LESS	150 PSIG MINIMUM
OVER 100# TO 200#	250 PSIG MINIMUM
OVER 200# TO 240#	300 PSIG MINIMUM
OVER 240#	25% GREATER THAN BOILER RELIEF VALVE SETTING

1 -- F350 not available as steam.

2 -- Use equivalent CLM for HECLM water boiler.

3 -- Obsolete Models.