

WPN SERIES

BI-METALLIC STEAM TRAP

INSTALLATION INSTRUCTIONS

INSTRUCTION PART NO. 2366200

REVISION N/C

APPLICATION

Bimetallic steam traps with thermal controller are used for the drainage of air and condensate.

HOW IT WORKS

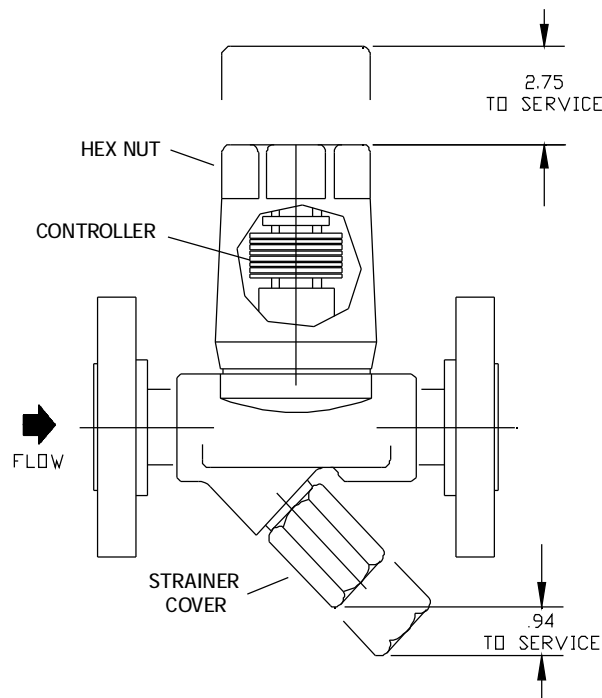
When the system is cold the trap is wide open discharging air and cold condensate. When the bimetallic plates inside the trap heat up, they pull the seat closed and the flow becomes restricted. When steam temperature is reached the trap shuts off tightly.

INSTALLATION

The trap should be installed in a vertical or horizontal plane.

CLEANING/REPLACING CONTROLLER ASSEMBLY

- Depressurise equipment (isolate supply line, also discharge line if there is back pressure.)
- Dismantle sealing cap/cover threaded connection.
- Unscrew bimetallic controller and remove strainer.
- Clean body, sealing cap/cover and strainer as well as all seal faces.
- Clean bimetallic controller and check sealing components at seat. If there appears to be unwarranted leakage of steam at the steam trap, its recommended the controller be setting be checked or, if necessary, the complete bimetallic controller be replaced.
- Insert strainer, making sure the sealing faces are clean.
- Screw in bimetallic controller and tighten.
- Replace sealing cap/cover and assemble hexagon nuts.
- If model has sealing rings, they should be replaced.



WPN-40

FAULT	POSSIBLE CAUSE	CORRECTIVE MEASURES
No flow	Installed in wrong flow direction Flange covers not removed	Reinstall valve in direction of flow arrow Remove flange covers
Little flow	Strainer clogged Piping system clogged Wrong controller size chosen Changed upstream pressure or back pressure operating conditions	Clean/replace strainer Check piping system Install correct size controller Install correctly sized controller to accommodate changed operating conditions.
No closure/internal leakage	Controller clogged Controller worn out Controller misadjusted/incorrect setting Controller incorrectly screwed into body Controller operated above safe operating pressure	Clean strainer and controller Replace controller Readjust controller Check seal face between body and controller, tighten controller Observe operating limits and possibly select a different controller
External leakage	Sealing cap or cover with hex nut is not properly tightened Seal defective	Tighten Replace

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WPN SERIES BI-METALLIC STEAM TRAPS

MODEL	WPN-40						WPN-63						
SIZES	1/2", 3/4", 1", 1 1/4", 1 1/2", 2"						1/2", 3/4", 1"				1 1/4", 1 1/2", 2"		
CONNECTIONS	NPT, FLG, SW, Butt-weld						FLG, SW, Butt-weld						
BODY/COVER MATERIAL	C22.8			15Mo3			15Mo3				15Mo3		
PMO (PSIG)	470	325	220	520	470	420	825	690	660	590	825	735	660
TMO (°F)	482	725	842	572	635	842	572	552	842	932	572	662	842
MAX PRESS. DROP	470	325	190	470	325	190	680				825	470	470
PRESS. CONTROLLER	R32	R22	R13	R32	R22	R13	R46				R53	R32	R32

MODEL	WPN-100			WPN-160				WPN-250				
SIZES	1/2", 3/4", 1"			1/2", 3/4", 1"				1/2", 3/4", 1"				
CONNECTIONS	FLG, SW, Butt-weld			FLG, SW, Butt-weld				FLG, SW, Butt-weld				
BODY/COVER MATERIAL	15Mo3			13CrMo44				10CoMo9-10				
1325	1325	825	400	2250	1470	910	515	2700	2260	1580	1190	
842	482	923	986	932	950	986	1022	932	950	986	1022	
MAX PRESS. DROP	1325	1325/880		880	1620				2260			
PRESS. CONTROLLER	R90	R90/R60		R60	R110				R154			