Float and thermostatic steam trap

Threaded connection **Model 241-243**
Flange connection **Model 244**

EN ASME/FNTP ASME/SW ASME/ANSI

To extract saturated or super-heated medium or low pressure steam condensates.
Applicable to: steam piping, heat exchangers, plants with automatic temperature control, etc., in the chemical and petrochemical industries, etc.

Specifications

— Operates with a float valve that opens to condensate accumulation and transports it. It also incorporates a thermostatic element that allows for the automatic elimination of air.
— Materials carefully selected for wear, temperature and corrosion resistance.
— Simple construction.
— Compact, robust. Reduced weight and size, which facilitate storage.
— Designed to select the suitable purger according to the requirements in each case and to avoid over-dimensioning. Without any doubt, this is the most versatile of the entire steam traps range for both small and large flow rates. Able to continually discharge high-pressure condensate.
— It evacuates at practically the steam temperature, which guarantees maximum heat transfer.
— Precise opening and closing, preventing steam losses.
— Simple installation. All models are supplied for horizontal installation and left-to-right pass flow. Simply by rotating the steam trap 180º in the same plane will invert the flow direction. On Model 241, modifying the body position with respect to the cover enables the steam trap to be adjusted for left-to-right, right-to-left or vertical descending flow.
— The ratings plate provides information on the service and installation conditions.
— Silent running.
— Insensitive to vibration, water hammers, reheated steam, corrosive condensate and icy conditions, etc.
— Back-pressure and condensate temperature variations do not affect it.
— Treated closing surfaces, which are grinded, lapped and burnished in order to achieve a degree of leak-tightness that even exceeds that required by EN 12266-1.
— All purgers are rigorously tested and verified.
— Each component is numbered, registered and monitored. If previously requested, all the certificates for materials, castings, tests and performances will come with the steam trap.

IMPORTANT
On order:
— Fitted with steam anti-blocking device.
— Option for manufacturing in other materials for special working conditions (high temperatures, fluids, etc).
— Insulating jackets to prevent radiation losses caused mainly by inclement weather conditions.
— Special fitting for draining fluids in air or gas lines.

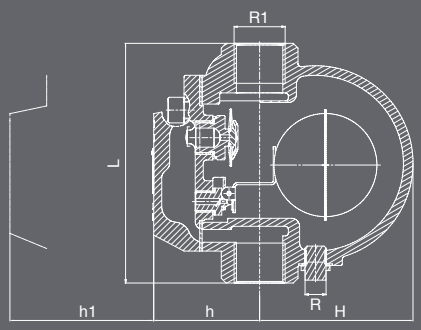

Model 241

Model 243

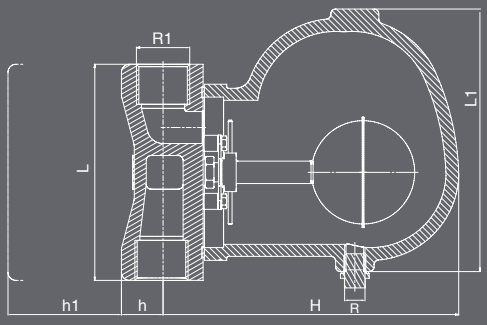
Model 244

N°. PIECE	PIECE	MATERIAL		
		MODEL 241	MODEL 243	MODEL 244
		CAST IRON	CARBON STEEL	CARBON STEEL
1	Body	Cast iron (EN-5.1301)	Carbon steel (EN-1.0619)	
2	Cover	Cast iron (EN-5.1301)	Carbon steel (EN-1.0619)	
3,28	Seal	Klingerit-type cardboard		
4	Screw	Carbon steel (EN-1.1191)		
5	Plate	Stainless steel (EN-1.4301)		
6	Rivet	Carbon steel (EN-1.1141)		
7	Plug	Carbon steel (EN-1.1181)		
8,10,15	Seal	Copper		
9	Pin	Carbon steel (EN-1.1141)		
11	Aerator body	Stainless steel (EN-1.4301)		
12	Aerator base	Stainless steel (EN-1.4301)		
13	Aerator cover	Stainless steel (EN-1.4301)		
14	Safety ring	Stainless steel (EN-1.4301)		
16	Seating	Stainless steel (EN-1.4028)		
17	Spacer		Stainless steel (EN-1.4301)	
18,29	Support	Stainless steel (EN-1.4301)		
19	Pin	Stainless steel (EN-1.4301)		
20,25,26,27	Screw	Stainless steel (EN-1.4301)		
21	Spring	Stainless steel (EN-1.4301)		
22	Valve	Stainless steel (EN-1.4028)		
23	Arm	Stainless steel (EN-1.4301)		
24	Buoy	Stainless steel (EN-1.4301)		
30	Pin		Stainless steel (EN-1.4301)	
31	Elbow		Stainless steel (EN-1.4028)	
R1		1/2" to 1" (GAS,NPT)	1/2"to 1", 11/2" and 2"(GAS,NPT,SW)	
DN				15 to 25,40 and 50 (EN,ANSI)
SERVICE CONDITIONS	MAX. ACCEPTABLE PRESSURE IN bar	16	16	
	MAX. ACCEPTABLE TEMPERATURE IN ºC	220	220	
	MAX. SERVICE PRESSURE IN bar	14	14	
	MAX. SERVICE TEMPERATURE IN ºC	220	220	
	MAX. BODY PRESSURE IN bar		20	
	MAX. BODY TEMPERATURE IN ºC		426	

Mod. 241



Mod. 243



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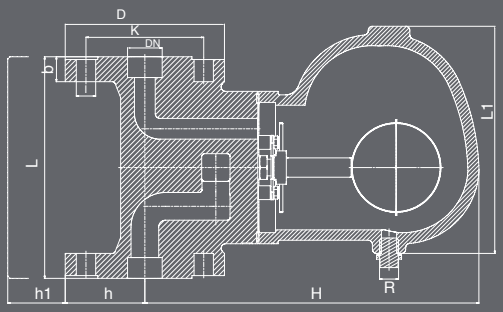
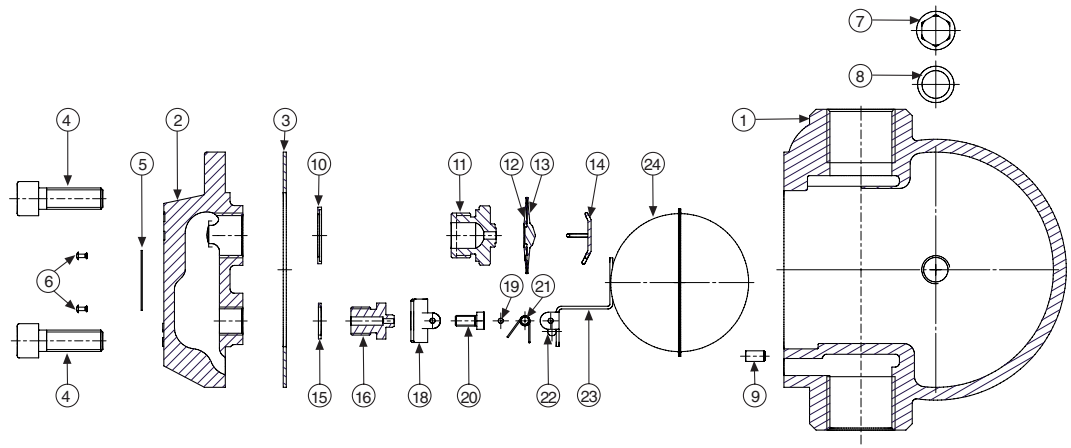
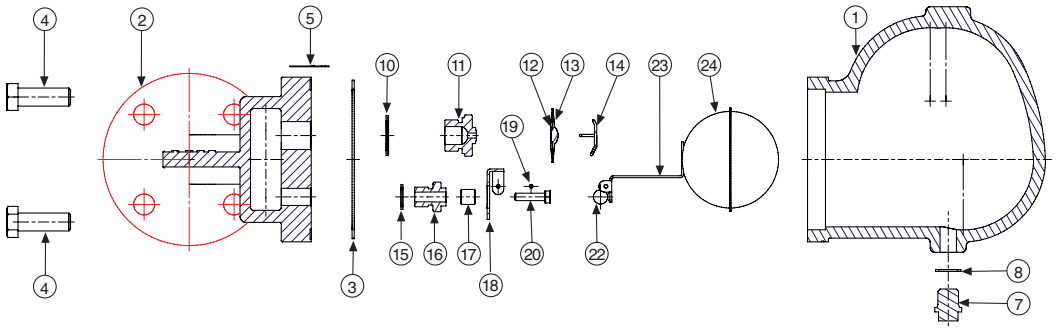


MODEL			241			243				
R1			1/2"	3/4"	1"	1/2"	3/4"	1"	11/2"	2"
CONNECTIONS			Threaded female Gas Whitworth cylindrical ISO 228/1 (DIN-259)							
			NPT thread, ANSI/ASME B1.20.1							
			Ends for welding SW ASME B16.11							
H			84	84	96	135	135	186	284	284
h			58,00	58,00	65,00	22,50	22,50	25,00	40,00	40,00
h1			110	110	110	100	100	135	225	225
L			130	135	150	100	120	135	250	250
L1			-	-	-	104	104	164	270	270
R			1/4"							
			Threaded female Gas Whitworth cylindrical ISO 228/1 (DIN-259)							
WEIGHT IN kgs.			3,30	3,30	4,30	4,50	4,50	7,50	31,00	31,00
CODE 2108 –	GAS	MAXIMUM PRESSURE DIFFERENTIAL IN bar 4,5	241.50261	241.53461	241.51061	243.50241	243.53441	243.51041	243.51241	243.52041
		10	241.50262	241.53462	241.51062	243.50242	243.53442	243.51042	243.51242	243.52042
		14	241.50263	241.53463	241.51063	243.50243	243.53443	243.51043	243.51243	243.52043
	NPT	4,5	241.502611	241.534611	241.510611	243.502411	243.534411	243.510411	243.512411	243.520411
		10	241.502621	241.534621	241.510621	243.502421	243.534421	243.510421	243.512421	243.520421
		14	241.502631	241.534631	241.510631	243.502431	243.534431	243.510431	243.512431	243.520431
	SW	4,5				243.502412	243.534412	243.510412	243.512412	243.520412
		10				243.502422	243.534422	243.510422	243.512422	243.520422
		14				243.502432	243.534432	243.510432	243.512432	243.520432

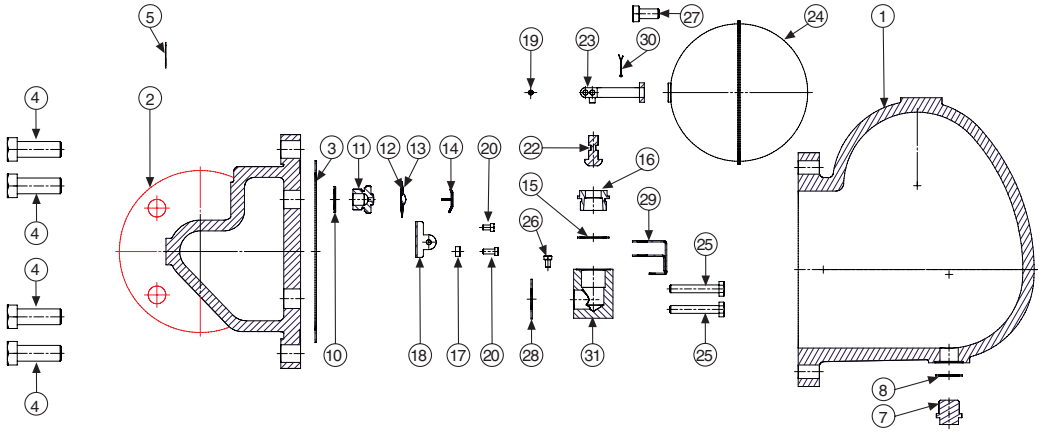
Mod. 241 1/2", 3/4" and 1"



Mod. 243 1/2", 3/4" and 1"
Mod. 244 DN 15,
DN 20 and DN 25



Mod. 243 1 1/2" and 2"
Mod. 244 DN 40 and DN 50

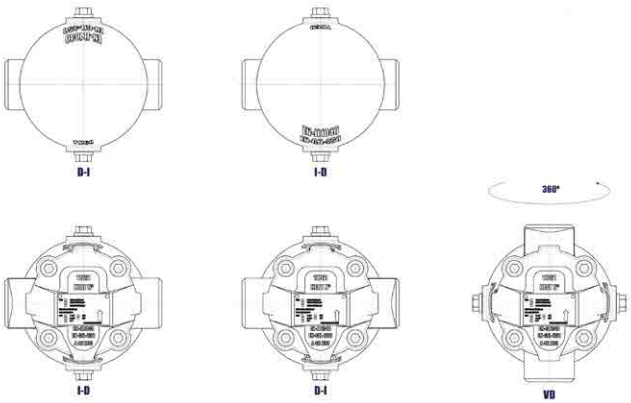


MODEL				244												
DN				15			20			25			40			50		
CONNECTIONS				I - Flanges PN-40 EN-1092-1 II - Flanges class 150 lbs ASME/ANSI B 16.5 III - Flanges class 300 lbs ASME/ANSI B 16.5													
				I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
H				135			135			241			343			343		
h				47,50	45,00	47,50	52,50	50,00	57,50	57,50	55,00	62,50	75,00	62,50	75,00	82,50	77,50	82,50
h_1				110			110			150			230			230		
L				150			150			160			230			230		
L_1				104			104			164			270			270		
D				95	90	95	105	100	115	115	110	125	150	125	150	165	155	165
K				65,00	60,30	66,70	75,00	69,90	82,60	85,00	79,40	88,90	110,00	98,40	120,70	125,00	114,30	127,00
I				14,00	15,90	15,90	14,00	15,90	19,10	14,00	15,90	19,10	18,00	15,90	19,10	18,00	22,20	19,10
b				16,00	11,60	14,70	18,00	13,20	16,30	18,00	14,70	17,90	18,00	17,90	21,10	18,00	19,50	22,70
NUMBER OF DRILL HOLES				4			4			4			4			4		8
R				1/4" Threaded female Gas Whitworth cylindrical ISO 228/1 (DIN-259)														
WEIGHT IN gs.				5,65			6,15			12,00			35,00			35,00		
CODE 2108 –	FLANGE		MAXIMUM PRESSURE DIFFERENTIAL IN bar															
		PN-16		4,5	244.50241			244.53441			244.51041			244.51241			244.52041	
				10	244.50242			244.53442			244.51042			244.51242			244.52042	
				14	244.50243			244.53443			244.51043			244.51243			244.52043	
		150 lbs		4,5	244.502411			244.534411			244.510411			244.512411			244.520411	
				10	244.502421			244.534421			244.510421			244.512421			244.520421	
				14	244.502431			244.534431			244.510431			244.512431			244.520431	
		300 lbs		4,5	244.502412			244.534412			244.510412			244.512412			244.520412	
				10	244.502422			244.534422			244.510422			244.512422			244.520422	
				14	244.502432			244.534432			244.510432			244.512432			244.520432	

DISCHARGE CAPACITIES IN kg/h																				
MODEL	MAXIMUM PRESSURE DIFFERENTIAL IN bar	R1	DN	PRESSURE DIFFERENTIAL IN bar																
				0,5	1	1,5	2	3	4	4,5	5	6	7	8	9	10	11	12	13	14
241	4,5	1/2"-3/4"		200	280	320	350	400	454	495										
	4,5	1"		530	700	750	879	1019	1099	1229										
	10	1/2"-3/4"		135	150	165	180	210	241	255	280	300	350	391	405	420				
	10	1"		230	320	370	420	510	570	600	640	680	710	760	800	820	404	430	454	482
	14	1/2"-3/4"		125	140	150	165	190	221	230	246	271	296	325	350	375	460	475	490	510
	14	1"		130	160	180	220	260	300	320	330	360	380	400	430	450				
243-244	4,5	1/2"-3/4"	15-20	200	280	320	350	400	454	495										
	4,5	1"	25	840	945	1049	1155	1358	1569	1673										
	4,5	11/2"-2"	40-50	3022	3272	3521	3787	4295	4795	5056										
	10	1/2"-3/4"	15-20	135	150	165	180	210	241	255	280	300	350	391	405	420				
	10	1"	25	604	654	710	760	870	974	1024	1079	1185	1290	1394	1499	1603	404	430	454	482
	10	11/2"-2"	40-50	2234	2684	2847	2920	3097	3337	3417	3526	3700	4030	4404	4790	5119	1004	1064	1120	1174
	14	1/2"-3/4"	15-20	125	140	150	165	190	221	230	246	271	296	325	350	375	4586	4795	4994	5190
	14	1"	25	425	454	480	510	565	620	645	675	730	785	839	895	949	1004	1064	1120	1174
	14	11/2"-2"	40-50	1944	2268	2538	2777	2972	3097	3176	3251	3367	3620	3887	4125	4366	4586	4795	4994	5190

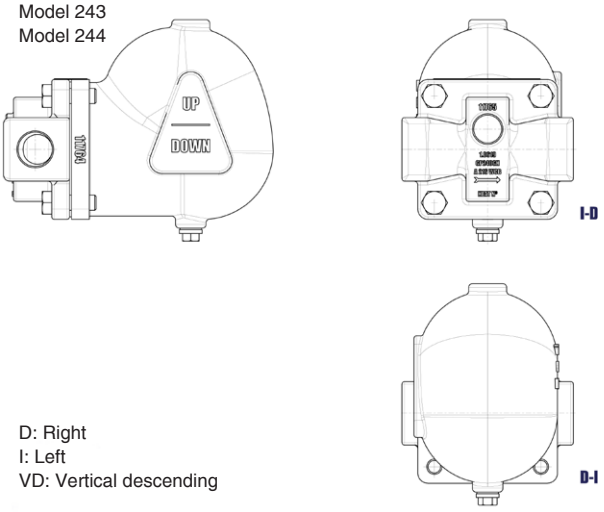
Installation options

Model 241



Flow pass direction

Model 243
Model 244



D: Right
I: Left
VD: Vertical descending