



Armstrong® Stainless Steel Sump Ejector

Armstrong Condensate Management Group offers a stainless steel sump ejector for use in draining unwanted water from steam pits, steam tunnels or enclosed spaces. The stainless steel sump ejector uses a snap-acting Inconel X-750 spring-assisted mechanism, which engages a steam motive valve, turning the pump on or off as the float rises and falls. The all stainless steel design will ensure long life in the rather harsh environment of a steam pit.

The stainless steel sump ejector is designed to eliminate maintenance headaches and safety issues surrounding steam pits, tunnels and enclosed spaces.

Features

- All stainless steel construction and design guard against corrosion
- True steam-on, steam-off operation
- Heavy duty Inconel X-750 springs provide a long, trouble-free service life
- The small, compact and unique cast stainless steel design is unlike anything on the market today

For a fully detailed certified drawing, refer to list below.

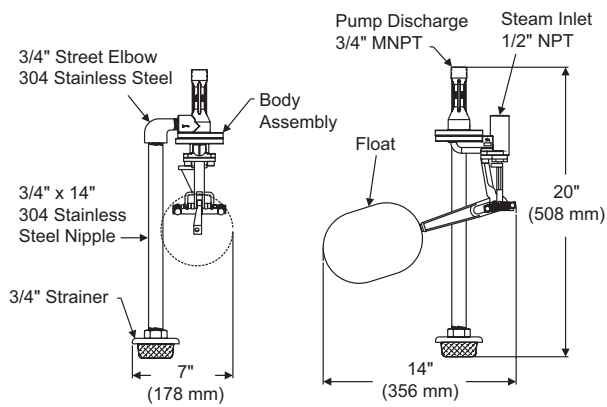
3/4" CDF #1052

1-1/2" CDF #1065

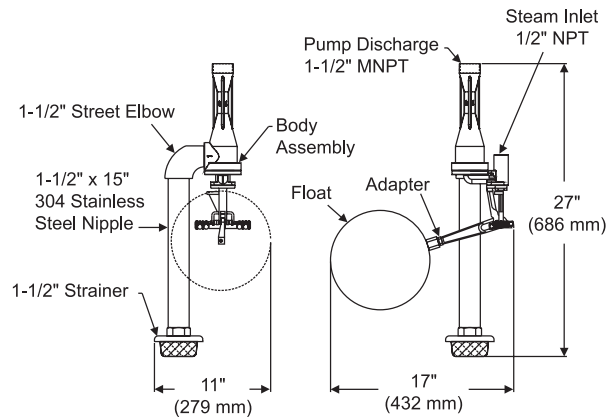


Stainless Steel Sump Ejector Materials	
Name of Part	Material
Mechanism	ASTM A351 CF8M
Springs	Inconel X-750
Spring Ends	304 Stainless Steel
Clevis Pins	304 Stainless Steel
Body	ASTM A351 CF8M
Nozzle	308 Stainless Steel
Seal Retainer	308 Stainless Steel
Motive Ball	440-C Stainless Steel
Motive Valve	316 Stainless Steel
Rod Seal	PTFE
Seal Spring	Hastelloy C-276
Rod Wiper	Nitrile
O-Ring	EPDM
Bolts	18-8 Stainless Steel
Strainer Body	Glass Filled Nylon
Strainer Mesh	Stainless Steel
Fittings	304 Stainless Steel
Pipe	304 Stainless Steel

Stainless Steel Sump Ejector



3/4" Model



1-1/2" Model

3/4" Stainless Steel Sump Ejector Capacities in gallons per minute (gpm)

Discharge Head (ft)	Water Temperature 60°F						Water Temperature 100°F						Water Temperature 140°F				
	Motive Steam Pressure (psig)						Motive Steam Pressure (psig)						Motive Steam Pressure (psig)				
	40	60	80	100	120	150	40	60	80	100	120	150	60	80	100	120	150
0	6.0	9.3	11.6	12.2	12.8	12.9	6.0	9.0	9.2	8.6	8.0	8.0	5.5	5.3	5.4	5.5	5.5
5	4.0	7.3	9.9	11.1	11.9	12.4	3.0	7.1	8.2	8.1	7.8	7.8	4.5	4.5	5.3	5.4	5.4
10	2.0	5.2	8.3	10.0	11.0	11.9	—	5.2	7.2	7.7	7.6	7.6	3.5	3.5	5.2	5.2	5.2
15	—	3.2	6.6	8.9	10.0	11.5	—	3.3	6.2	7.2	7.3	7.4	—	—	5.1	5.1	5.1
20	—	—	5.0	7.8	9.2	11.0	—	—	5.2	6.7	7.1	7.3	—	—	5.0	4.9	4.9
25	—	—	—	6.7	8.3	10.5	—	—	—	6.2	6.8	7.1	—	—	4.9	4.8	4.8
30	—	—	—	5.6	7.4	10.0	—	—	—	5.7	6.6	6.9	—	—	4.8	4.6	4.6
35	—	—	—	—	6.5	9.5	—	—	—	—	6.4	6.7	—	—	—	4.5	4.5
40	—	—	—	—	5.6	9.1	—	—	—	—	6.1	6.6	—	—	—	4.3	4.3
45	—	—	—	—	—	8.6	—	—	—	—	—	6.4	—	—	—	—	4.2
50	—	—	—	—	—	8.1	—	—	—	—	—	6.2	—	—	—	—	4.0

Note: Maximum operating pressure is 175 psig (12 bar). No increase in capacity with motive pressure over 150 psig (10 bar).

1-1/2" Stainless Steel Sump Ejector Capacities in gallons per minute (gpm)

Discharge Head (ft)	Water Temperature 60°F						Water Temperature 100°F						Water Temperature 140°F					
	Motive Steam Pressure (psig)						Motive Steam Pressure (psig)						Motive Steam Pressure (psig)					
	60	80	100	120	150	175	60	80	100	120	150	175	60	80	100	120	150	175
5	23.0	34.0	42.2	48.4	56.8	55.8	23.2	34.1	42.2	49.9	55.3	56.0	26.3	36.1	46.3	46.2	41.1	41.0
10	—	28.4	38.0	43.2	51.0	51.2	—	28.9	37.2	44.5	52.1	54.8	—	28.9	38.2	43.5	41.1	40.9
15	—	—	35.0	37.9	46.5	50.4	—	—	31.3	39.3	48.9	53.1	—	—	30.7	38.1	41.1	40.9
20	—	—	26.1	33.5	44.4	49.5	—	—	—	35.0	44.7	51.4	—	—	23.6	33.4	41.2	40.8
25	—	—	—	29.0	39.5	48.0	—	—	—	30.9	40.3	47.2	—	—	—	—	41.4	40.5
30	—	—	—	—	35.2	43.5	—	—	—	—	36.5	43.9	—	—	—	—	—	—
35	—	—	—	—	31.1	38.8	—	—	—	—	32.3	39.1	—	—	—	—	—	—
40	—	—	—	—	—	34.3	—	—	—	—	—	35.7	—	—	—	—	—	—