

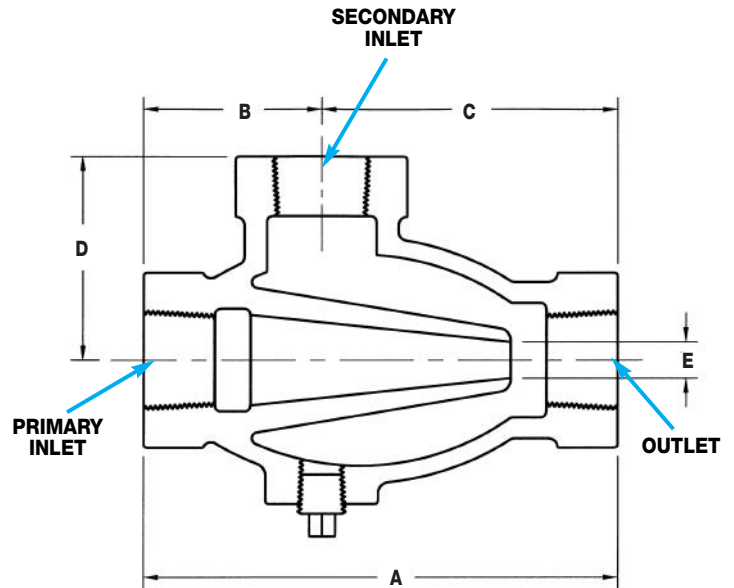
SPECIALTY PRODUCTS

Suction/Mixing Tee

Cast Iron, Bronze or Stainless Steel

DIMENSIONS & WEIGHTS – inches / pounds

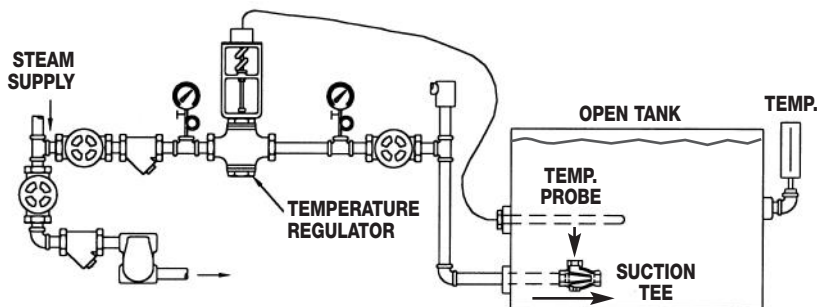
Pipe Size	A	B	C	D	E	Weight (lbs)
125# Cast Iron Body & Bronze 250#						
1/2"	3 ³ / ₄	1 ¹ / ₂	2 ¹ / ₄	1 ³ / ₄	1/4	1.5
3/4"	5	1 ⁷ / ₈	3 ¹ / ₈	3 ¹ / ₈	3/8	3.25
1"	5 ⁵ / ₈	2 ³ / ₁₆	3 ⁷ / ₁₆	2 ¹ / ₂	5/8	4
1 ¹ / ₄ "	5 ³ / ₄	2 ¹ / ₄	3 ¹ / ₂	2 ¹ / ₂	11/16	4.75
1 ¹ / ₂ "	6 ¹ / ₁₆	2 ⁷ / ₁₆	3 ⁵ / ₈	2 ⁷ / ₈	7/8	5.50
2"	7	2 ⁷ / ₈	4 ¹ / ₈	3	15/16	7
2 ¹ / ₂ "	8 ³ / ₈	3 ¹ / ₂	4 ⁷ / ₈	3 ⁵ / ₁₆	1	11.75
3"	9 ¹ / ₂	4 ¹ / ₈	5 ³ / ₈	3 ⁷ / ₈	1 ⁵ / ₁₆	20.50
250# Cast Iron Body & Stainless Steel 300#						
1"	6 ¹ / ₁₆	2 ⁵ / ₁₆	3 ³ / ₄	2 ¹¹ / ₁₆	11/16	6.75
1 ¹ / ₄ "	6 ³ / ₁₆	2 ³ / ₈	3 ¹³ / ₁₆	2 ¹³ / ₁₆	11/16	8
1 ¹ / ₂ "	6 ¹ / ₂	2 ¹³ / ₁₆	3 ¹¹ / ₁₆	2 ⁷ / ₈	7/8	10.50
2"	7 ³ / ₈	3 ¹ / ₁₆	4 ⁵ / ₁₆	3 ¹ / ₄	15/16	16.50



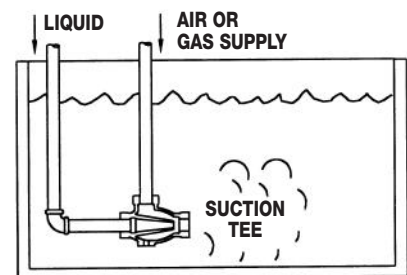
CAPACITIES – Steam (lbs/hr)

Size	Supply Pressure (PSIG)																	
	5	10	15	20	25	30	35	40	45	50	55	60	65	75	85	100	125	150
1/2"	66	96	114	135	156	165	174	207	240	258	276	294	312	354	396	456	552	630
3/4"	108	138	168	198	228	255	282	309	336	363	390	402	414	504	564	648	792	936
1"	312	390	468	549	630	711	792	882	972	1026	1080	1170	1260	1428	1584	1800	2232	2556
1 ¹ / ₄ "	444	558	672	783	894	1005	1116	1230	1344	1461	1578	1689	1800	2010	2232	2592	3168	3708
1 ¹ / ₂ "	612	756	900	1026	1152	1332	1512	1674	1836	1980	2124	2286	2448	2772	3060	3528	4320	5040
2"	798	1008	1206	1410	1614	1815	2016	2214	2412	2610	2808	3024	3240	3636	3996	4680	5652	6696
2 ¹ / ₂ "	912	1152	1368	1584	1800	2052	2304	2538	2772	2997	3222	3447	3672	4140	4608	5292	6480	7560
3"	1332	1656	1980	2304	2628	2970	3312	3636	3960	4302	4644	4986	5328	5976	6600	7620	9300	10800

APPLICATIONS



Controlling temperature of large open tank by steam injection



Aeration or Agitation

SPECIALTY PRODUCTS

SPECIALTY PRODUCTS

Ejectors

Syphons, Eductors, Exhausters & Injectors

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Model	W-EJECT, W-ELL, W-LM
Sizes	1/2" - 2"
Connections	NPT
Body Material	Bronze (1/2" - 1 1/2") Cast Iron (2")
PMO Max. Operating Pressure	100 PSIG
TMO Max. Operating Temperature	130°F
PMA Max. Allowable Pressure	250 PSIG up to 450°F
TMA Max. Allowable Temperature	450°F @ 250 PSIG

Note: Minimum Operating Pressure for W-ELL & W-LM is 20 PSIG.



W-ELL & W-LM



W-EJECT

TYPICAL APPLICATIONS

Watson McDaniel **Ejectors** perform a variety of functions depending on the application and motive fluid (steam or water) used. See performance charts on the following pages. Applications include: exhausting, agitating, aerating, circulating, pumping and mixing.

HOW IT WORKS

Using water, steam or air pressure as the motive force, ejectors operate on the principle that a high velocity flow through a nozzle will create a pressure drop in the area around the nozzle discharge. The resulting vacuum will induce flow into the secondary inlet of the ejector.

FEATURES

- No moving parts
- Can be used with water or steam pressure
- Submersible
- Available in cast iron or bronze

SAMPLE SPECIFICATION

Ejectors shall be constructed from bronze or cast iron. Units shall be capable of using steam, water or air as a motive force.

INSTALLATION

See installation examples on following page.

MATERIALS

Body (1/2" - 1 1/2")	Bronze
Body (2")	Cast Iron
Nozzles (all sizes)	Bronze

Note: W-ELL & W-LM for liquid motive service only.