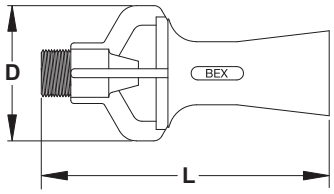
BEX 316SS INVESTMENT CAST TANK MIXING EDUCTORS



CONSTRUCTION:

These precision investment cast models are available in 316 stainless steel and alloy 20. Other materials are available on request.

The capacity table provides the flow of water through the nozzle orifice. To determine the discharge, multiply this value by five (5).

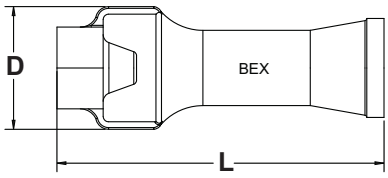
DIMENSIONS

MODEL NUMBER	Pipe Size	Dim. L (cm)	Dim. D (cm)
BT0M	3/8 BSPT Male	11.4	5.4
BT2M	3/4 BSPT Male	16.2	10.2
BT3M	1 BSPT Male	21.6	9.5
BT4M	1 1/2 BSPT Male	25.1	11.7

MODEL NUMBER	MAXIMUM FREE PASSAGE (mm)	NOZZLE FLOW (L/min) AT VARIOUS PRESSURES (bar)							
		0.7 bar	1 bar	1.5 bar	2 bar	2.5 bar	3 bar	3.5 bar	4 bar
BT0M	7.32	29	34	42	48	54	59	64	68
BT2M	9.80	51	62	75	87	97	107	115	123
BT3M	12.2	80	96	117	135	151	166	179	191
BT4M	15.5	126	150	184	213	238	261	281	301

BEX CAST IRON EDUCTORS

Includes 1-1/2", 2" & 3" 316SS models



The capacity table provides the flow of water through the nozzle orifice. To determine discharge, multiply this value by five (5).

DIMENSIONS

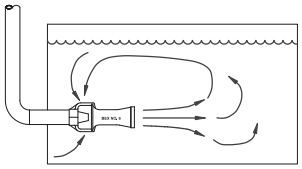
MODEL NUMBER	Pipe Size	Dim. L (cm)	Dim. D (cm)
BT4	1 1/2 BSPT Female	24.1	9.5
BT5	2" BSPT Female	31.1	12.4
BT6	3" BSPT Female	43.5	19.1

MODEL NUMBER	MAXIMUM FREE PASSAGE (mm)	NOZZLE FLOW (L/min) AT VARIOUS PRESSURES (bar)							
		0.7 bar	1 bar	1.5 bar	2 bar	2.5 bar	3 bar	3.5 bar	4 bar
BT4	15.5	126	150	184	213	238	261	281	301
BT5	19.8	210	251	307	355	396	434	469	501
BT6	30.2	480	574	703	812	908	995	1074	1149

OTHER NOZZLES

USING BEX EDUCTORS AS STEAM SPARGERS

(for 1", 1 1/4", 1 1/2" and 2" pipe)



APPLICATIONS:

BEX Steam Spargers heat water and other liquids quickly and efficiently by direct injection of steam. They are designed for tank immersion and eliminate water hammer noise.

SELECTING THE RIGHT EDUCTOR:

(1) Calculate the required steam flow rate from the following equation:

$$\text{Steam Required (kg/hr)} = \frac{\text{Temp. increase of water (°C) x weight of water (kg)}}{\text{Time allowed to heat tank (hrs.) x 556}}$$

(2) Knowing the steam flow rate and the steam pressure available at the sparger, choose the sparger(s) from the table below. Using several small spargers may be advisable to using one large sparger.

(3) To help eliminate steam hammer, ensure that the minimum absolute pressure of the eductor is at least twice the absolute pressure inside the tank, at eductor depth.

Note:
1 litre of water = 1 kg
1 cubic metre of water = 1000 kg

MODEL NUMBER	MAXIMUM FREE PASSAGE (mm)	STEAM CAPACITIES (kg/hr) AT VARIOUS STEAM PRESSURES (bar)							
		1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	8 bar	10 bar
BT0M	7.32	62	64	68	72	76	79	87	95
BT2M	9.80	97	100	106	112	118	124	136	148
BT3M	12.2	161	166	176	186	196	206	226	245
BT4	15.5	270	278	295	312	328	345	378	411
BT5	19.8	410	422	448	473	498	524	574	625
BT6	30.2	903	931	987	1043	1099	1154	1266	1377