Eiettori tipo "E"

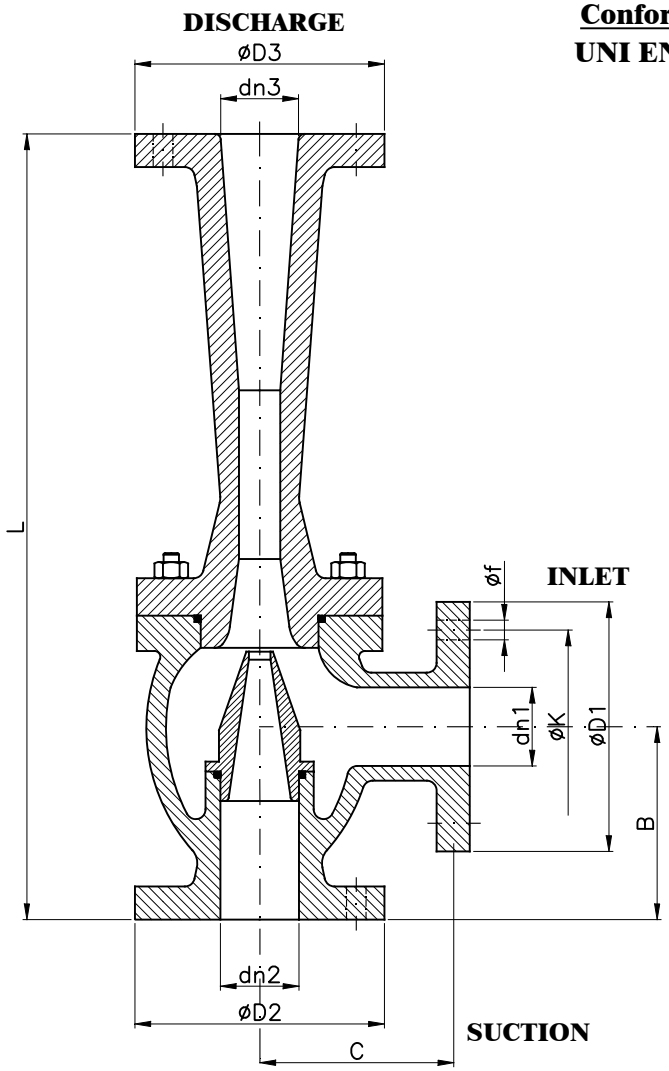
Type "E" ejectors

Tab.EJ-E

Conform to:
UNI EN1092

Specifications

Motive liquid pressure: 1.5 – 15 bar g
Suction lift: up to 7mt
Suction capacities: more than 150 mc/h
Discharge head: up to 30 mt
Connections: all flanges DIN NP10
Test: each ejector is subject to careful testing and certified by an hydrostatic test report



Ejectors "E" type
Coefficient values K=Qs/Qm=suction capacity/motive liquid consumption
Table 1

Suction Lift (mwc)	Motive Pressure (bar g)	Delivery head (mwc) 5	10	15	20	25	30
	1.5	0.55					
	2	0.6	0.2				
	3	1.1	0.5	0.24			
	4	1.45	0.8	0.48	0.25		
	5	1.8	1.05	0.72	0.4	0.25	
2mt	6	2.15	1.3	0.95	0.55	0.38	0.25
	7	2.5	1.5	1.06	0.7	0.5	0.35
	8	2.8	1.7	1.17	0.85	0.6	0.45
	9	3.1	1.9	1.3	0.95	0.7	0.55
	10	3.4	2.1	1.45	1.05	0.8	0.65
	11	3.6	2.3	1.6	1.15	0.9	0.75
	12	3.8	2.5	1.75	1.25	1	0.85

Ejectors "E" type
Coefficient values K=Qs/Qm=suction capacity/motive liquid consumption
Table 2

Suction Lift (mwc)	Motive Pressure (bar g)	Delivery head (mwc) 5	10	15	20	25	30
	1.5	0.27					
	2	0.54	0.17				
	3	0.81	0.39	0.18			
	4	1.08	0.61	0.35	0.18		
	5	1.35	0.8	0.5	0.32	0.18	
5mt	6	1.62	0.98	0.65	0.44	0.31	0.19
	7	1.81	1.12	0.8	0.55	0.41	0.3
	8	2	1.26	0.92	0.65	0.5	0.38
	9	2.18	1.39	1	0.75	0.58	0.45
	10	2.34	1.53	1.1	0.85	0.66	0.52
	11	2.5	1.67	1.2	0.93	0.72	0.59
	12	2.65	1.8	1.3	1	0.8	0.65

Example: required capacity: 72mc/h – delivery head: 10mwc
Motive pressure: 7 bar g – suction lift: 2 mwc
From table1: K=1.5
This ratio indicates the ejector will have a suction capacity equal to 1.5 mc for every mc of inlet liquid
Motive liquid consumption: 48 mc/h
from table E the size 80–125–125 is chosen

SIZE	Total capacity at discharge mc/h	dn1	D1	dn2	D2	dn3	D3	L	B	C	Weight (Kg)
32–40–40	10	32	140	40	150	40	150	395	90	105	17
40–40–50	18	40	150	40	150	50	165	510	80	120	20
65–65–80	42	65	185	65	185	80	200	660	135	130	30
80–80–100	70	80	200	80	200	100	220	775	143	140	48
80–125–125	120	80	200	125	250	125	250	1030	195	170	95
100–150–150	200	100	220	150	285	150	285	1300	130	185	113

DN	K	f	Holes No. f
32	100	18	4
40	110	18	4
50	125	18	4
65	145	18	4
80	160	18	8
100	180	18	8
125	210	18	8
150	240	22	8

Combinazione materiali standard – Standard materials Combination

		B/316	GS/316
ITEM	DENOMINAZIONE DENOMINATION	MATERIALE MATERIAL	MATERIALE MATERIAL
01	Head	Bronze UNI EN1982 G–CuSn5Zn5Pb5	Nodular cast iron EN–GJS–400–15U UNI EN1563
02	Nozzle	Stainless steel AISI316 UNI EN10088	Stainless steel AISI316 UNI EN10088
03	Diffusor	Bronze UNI EN1982 G–CuSn5Zn5Pb5	Nodular cast iron EN–GJS–400–15U UNI EN1563

Nota: Combinazioni materiali non standard a richiesta
Note: Non standard materials combinations on request