

# EIETTORI IN PVC

## PVC INJECTORS

15





## EIETTORI IN PVC MODELLO SP820-PVC / INJECTOR IN PVC TYPE SP820-PVC



SP820



SP820

**Campi di applicazione**

Gli eiettori vengono impiegati per miscelezioni, post-miscelezioni, dosaggio, pompaggio ed evacuazione serbatoi

**Principio di funzionamento**

Il liquido motrice proveniente dalla tubazione principale e spinto da una pompa o dalla pressione di rete, viene accelerato dal diametro ridotto dell'ugello. L'accelerazione del liquido provoca una depressione dal lato aspirazione con conseguente aspirazione di liquido o gas. Il volume di aspirazione è dipendente dalla pressione del liquido motrice e dal diametro dell'ugello. Vedi diagrammi successivi.

**Tipi di fluidi**

Gli eiettori possono essere impiegati su gas o liquidi aggressivi e neutri compatibilmente con la scelta del materiale di composizione dell'eietttore (contattare l'ufficio tecnico Hytek).

**Materiali**

- Corpo/ugello: uPVC, PP o PVDF

- O-rings: EPDM o FPM

Pressione nominale

- uPVC: \_\_\_\_\_ PN 10

- PP: \_\_\_\_\_ PN 10

- PVDF: \_\_\_\_\_ PN 10

**Temperature medie**

Dipende dalle condizioni operative (pressione dell'impianto, densità del fluido, etc.). Di seguito si indicano approssimativamente le temperature minime e massime di funzionamento:

- uPVC: \_\_\_\_\_ - 10 fino a + 60°C

- PP: \_\_\_\_\_ +10 fino a + 80°C

- PVDF: \_\_\_\_\_ - 30 fino a +120°C

- EPDM: \_\_\_\_\_ - 30 fino a +120°C

- FPM: \_\_\_\_\_ - 30 fino a +120°C

**Pressione di esercizio**

Vedi diagrammi in relazione al materiale dell'eietttore

**Attacchi dal DN10 fino al DN50**

- Bocchettoni ad incollaggio in PVC DIN/ISO.

**Attacchi DN65 fino al DN80**

- Bocchettoni ad incollaggio DIN/ISO.

- Bocchettoni a saldare DIN/ISO.

- Connessioni flangiate a richiesta

**Volume di aspirazione**

Per i valori standard vedi diagrammi. Si raccomanda il dimensionamento del foro dell'ugello per l'ottimizzazione del punto operativo di aspirazione corretto.

**Colore dell'eietttore**

- uPVC: grigio, RAL 7011

- PP: grigio, RAL 7032

- PVDF: opaco, bianco - giallastro

- PP- su richiesta neutro

**Range of application**

Water-jet pumps are used for admixing, mixing, dosing, pumping out and evacuating of tanks.

**Working principle**

Driving liquid, which comes in main flow direction out of the nozzle installed in the water-jet pump, is accelerated by the diameter reduction of the nozzle. This acceleration causes low pressure at the suction spigot end sucking liquids or gaseous media. The suction volume is a function of the driving liquid pressure and the nozzle bore. As to standard values of the suction volume see diagrams.

**Type of fluids**

Neutral, aggressive or gaseous liquids provided that the selected materials are resistant at operating temperature. Refer to the resistance guide (please contact Hytek technical office).

**Materials**

- Housing/nozzle: uPVC, PP or PVDF

- Sealings: EPDM or FPM

Nominal pressure

- uPVC: \_\_\_\_\_ PN 10

- PP: \_\_\_\_\_ PN 10

- PVDF: \_\_\_\_\_ PN 10

**Media temperature**

Depends on the operating conditions (system pressure, load etc.). Taking creep strength into account, the following approximate temperatures apply:

- uPVC: \_\_\_\_\_ - 10 up to + 60°C

- PP: \_\_\_\_\_ +10 up to + 80°C

- PVDF: \_\_\_\_\_ - 30 up to +120°C

- EPDM: \_\_\_\_\_ - 30 up to +120°C

- FPM: \_\_\_\_\_ - 30 up to +120°C

**Operating pressure**

See material dependent pressure/temperature diagram.

**Connection DN 10 up to DN 50**

- Union socket with Inserts (PVC) for solvent welding acc. DIN/ISO.

**Connection DN 65 and DN 80**

- Spigot ends for solvent welding acc. DIN/ISO.

- Spigot ends for fusion welding acc. DIN/ISO.

- Flange connection on request.

**Suction volume**

Standard values see diagram. We recommend an empiric determination by adjusting the nozzle bore to the desired operating point.

**Colour Housing**

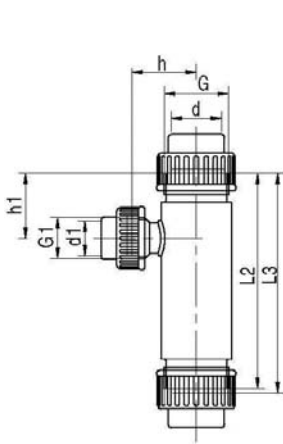
- uPVC: grey, RAL 7011

- PP: grey, RAL 7032

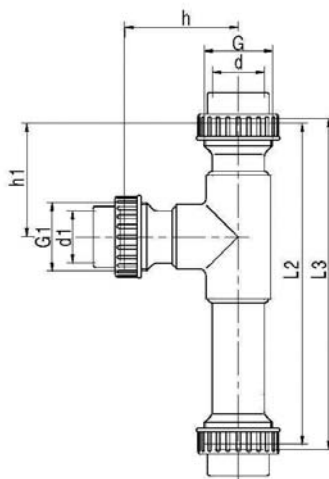
- PVDF: opaque, yellowish-white

- PP- nature on request

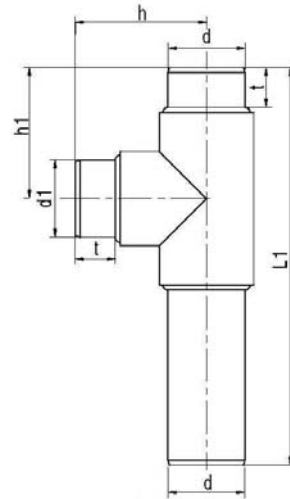
DIMENSIONI / DIMENSIONS



DN 10 - DN 20



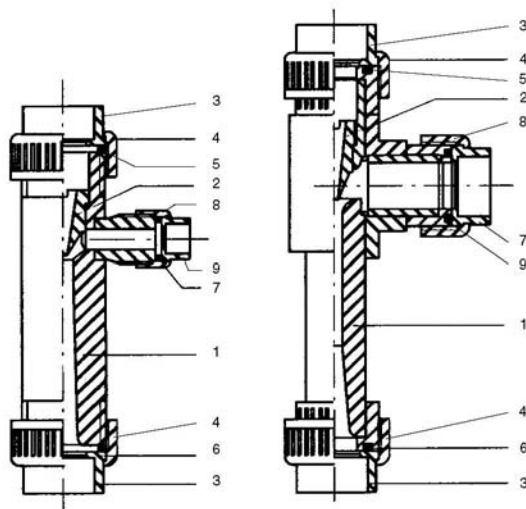
DN 25 - DN 50



DN 65 - DN 80

d mm	DN mm	DN inch	d1	G inch	G1 inch	h mm	h1 mm	L1 mm	L2 mm	L3 mm	f mm
16	10	3/8	16	R 3/4	R 3/4	35	40	-	110	116	-
20	15	1/2	16	R 1	R 3/4	35	40	-	110	116	-
25	20	3/4	16	R 1 1/4	R 3/4	45	45	-	145	151	-
32	25	1	32	R 1 1/2	R 1 1/2	71	71	-	195	201	-
40	32	1 1/4	40	R 2	R 2	87	87	-	239	245	-
50	40	1 1/2	50	R 2 1/4	R 2 3/4	105	105	-	301	307	-
63	50	2	63	R 2 3/4	R 2 3/4	128	128	-	351	357	-
75	65	2 1/2	75	R -	R -	115	115	388	-	-	44
90	80	3	75	R -	R -	149	149	465	-	-	51

RICAMBI / SPARE PARTS



Pos.	Qty.	Description
1	1	Water-jet pump
2	1	Nozzle
3	2	Insert
4	2	Union nut
5*	1	O-ring
6	1	O-ring
7	1	Insert
8	1	Union nut
9	1	O-ring

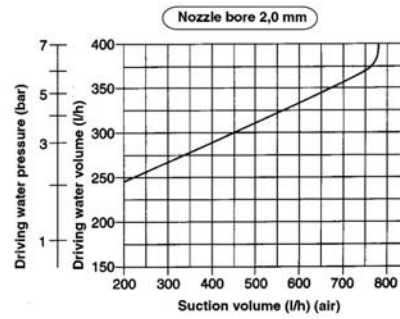
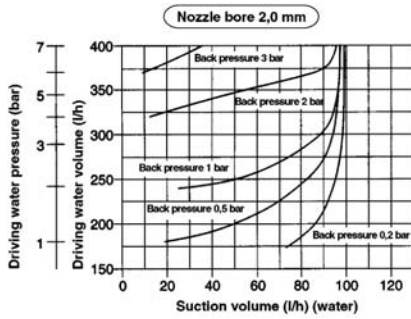
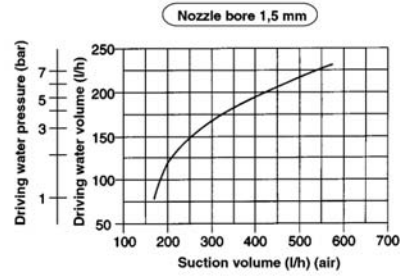
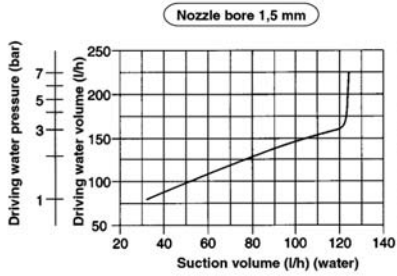
\* up to DN 20 flat seal ring

CURVE DI FUNZIONAMENTO / PERFORMANCE CURVE

EI54385/EI61385 (SP820 DN10)

Suction media: water

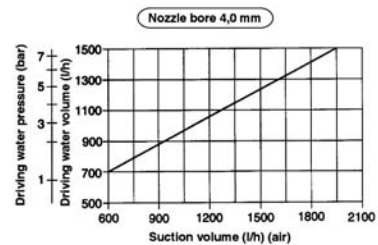
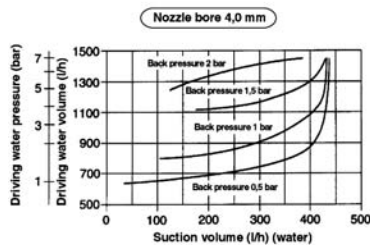
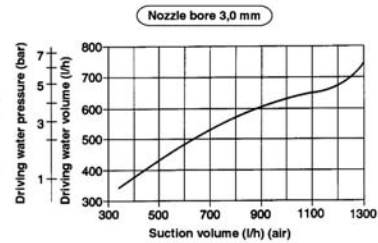
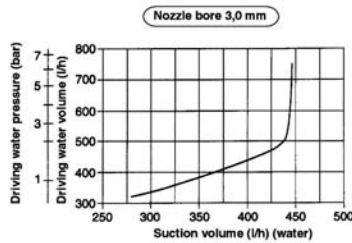
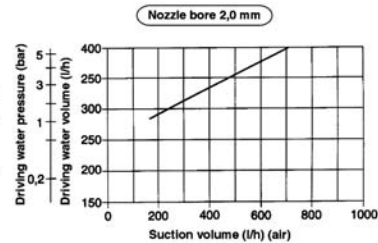
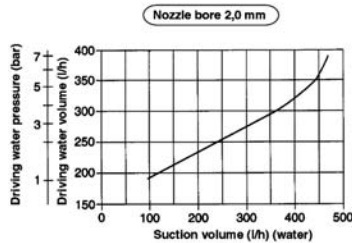
Suction media: air



EI54386/EI59679 (SP820 DN15)

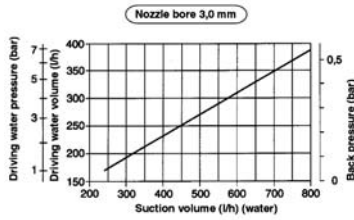
Suction media: water

Suction media: air

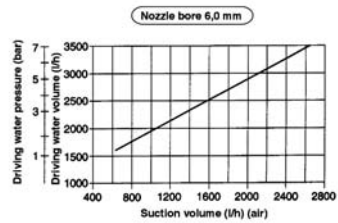
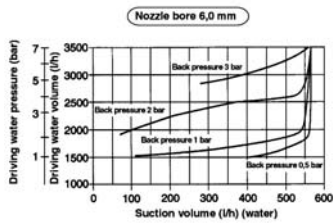
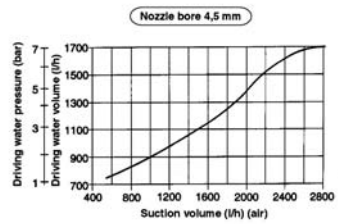
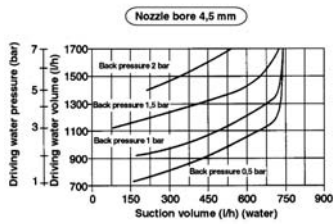
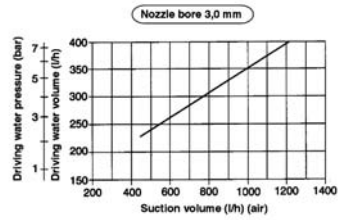


EI54389/EI57140 (SP820 DN20)

Suction media: water

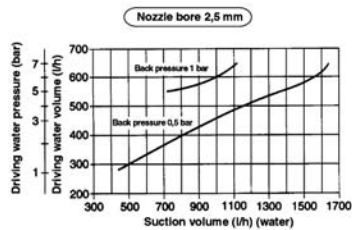


Suction media: air

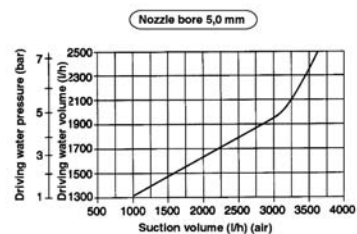
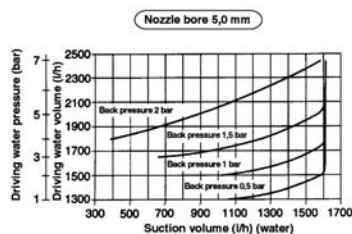
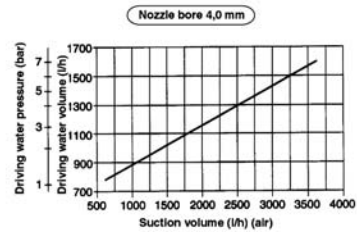
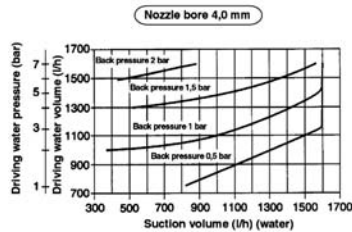
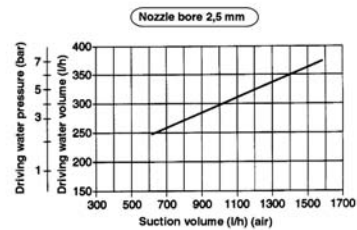


EI54387/EI60123 (SP820 DN25)

Suction media: water



Suction media: air





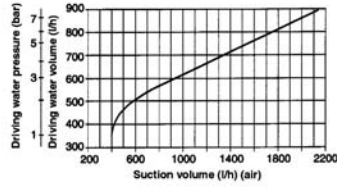
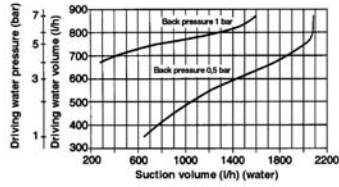
EI54388/EI59794 (SP820 DN32)

Suction media: water

Suction media: air

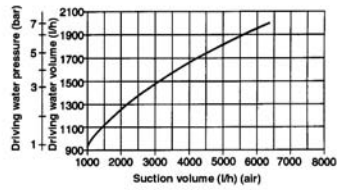
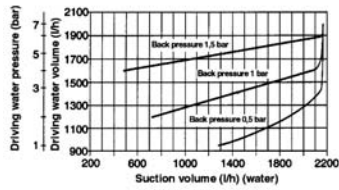
Nozzle bore 3,0 mm

Nozzle bore 3,0 mm



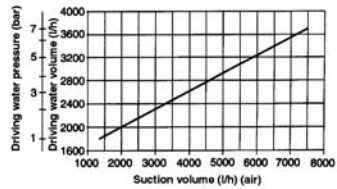
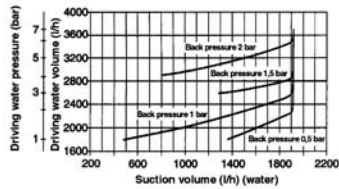
Nozzle bore 4,5 mm

Nozzle bore 4,5 mm



Nozzle bore 6,0 mm

Nozzle bore 6,0 mm



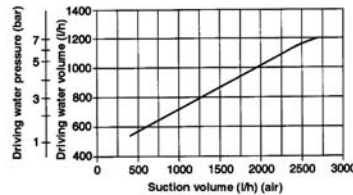
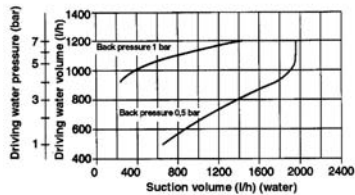
EI54390/EI59698 (SP820 DN40)

Suction media: water

Suction media: air

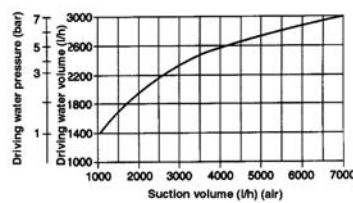
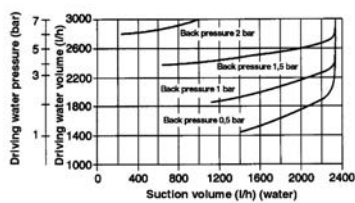
Nozzle bore 3,5 mm

Nozzle bore 3,5 mm



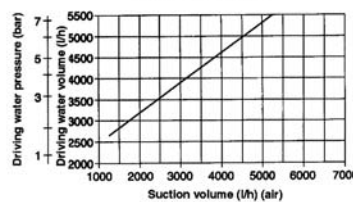
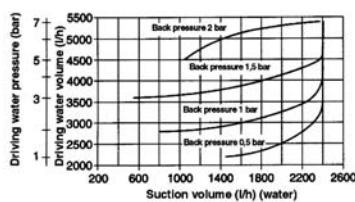
Nozzle bore 5,5 mm

Nozzle bore 5,5 mm



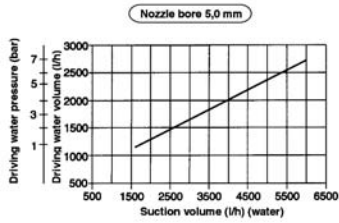
Nozzle bore 7,5 mm

Nozzle bore 7,5 mm

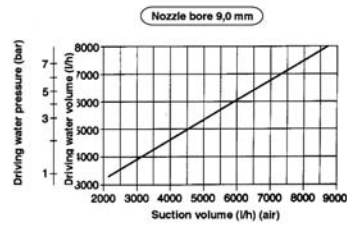
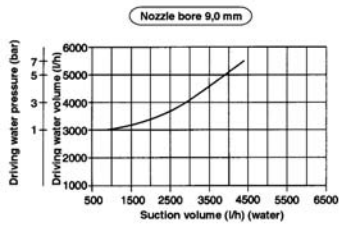
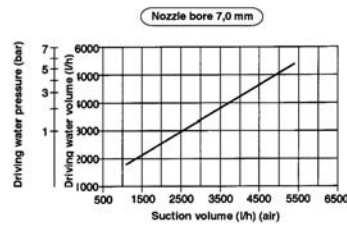
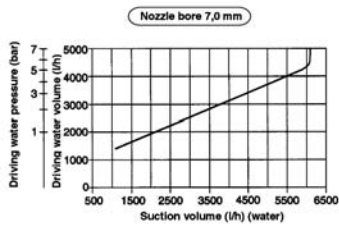
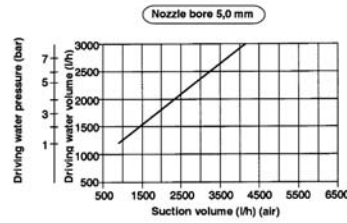


EI54391/EI61335 (SP820 DN50)

Suction media: water

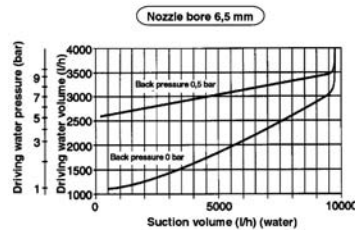


Suction media: air

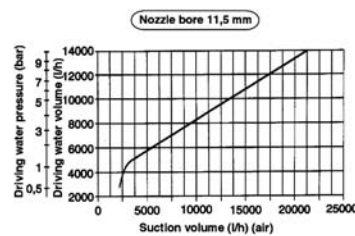
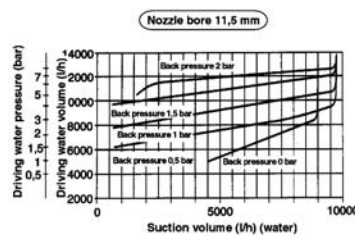
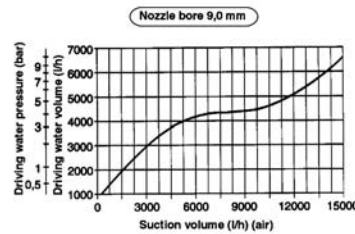
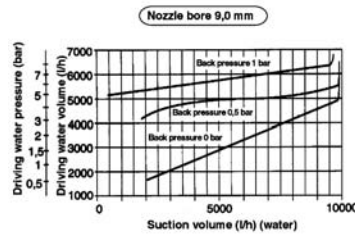
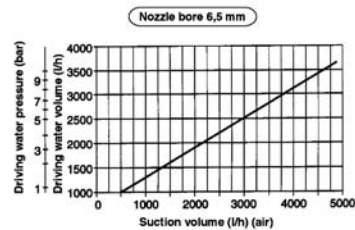


EI64866/EI65948 (SP820 DN65)

Suction media: water



Suction media: air





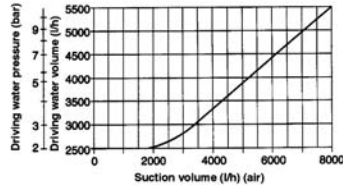
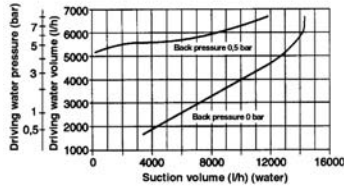
EI61352/EI65949 (SP820 DN80)

Suction media: water

Suction media: air

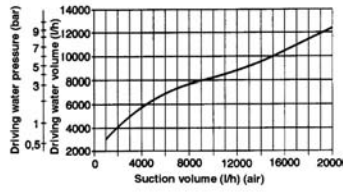
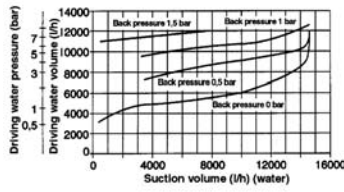
Nozzle bore 8,0 mm

Nozzle bore 8,0 mm



Nozzle bore 11,0 mm

Nozzle bore 11,0 mm



Nozzle bore 14,0 mm

Nozzle bore 14,0 mm

