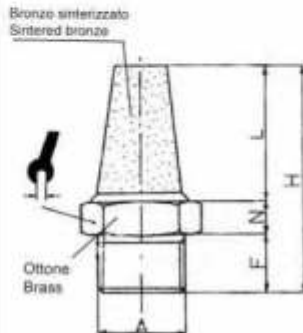




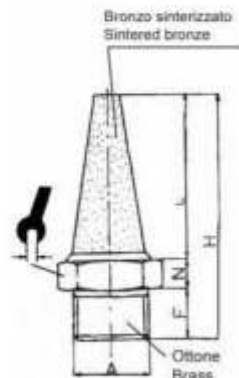
### ART. SBE

CODICE	A	N	F	L	H		
SBE18	1/8" BSP	8,0	6,0	15,0	29,0	13,0	50
SBE14	1/4" BSP	8,0	7,0	17,0	32,0	16,0	50
SBE38	3/8" BSP	7,0	8,0	25,0	40,0	19,0	25
SBE12	1/2" BSP	9,0	9,0	27,0	45,0	24,0	25
SBE34	3/4" BSP	10,0	9,0	37,0	56,0	30,0	10
SBE01	1" BSP	10,0	11,0	45,0	66,0	36,0	10
SBE5MA	M5"	4,0	4,0	9,0	17,0	8,0	100
SBE18FEM	1/8" FEM BSP	8,0	7,0	15,0	30,0	13,0	50



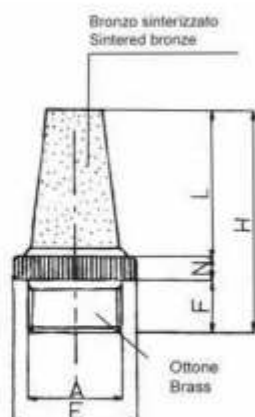
### ART. SAC

CODICE	A	N	F	L	H		
SAC18	1/8" BSP	8,0	6,0	30,0	44,0	13,0	100
SAC14	1/4" BSP	8,0	7,0	35,0	50,0	16,0	50
SAC38	3/8" BSP	7,0	8,0	39,0	54,0	19,0	25
SAC12	1/2" BSP	9,0	9,0	49,0	67,0	24,0	25
SAC34	3/4" BSP	10,0	9,0	46,0	65,0	30,0	10
SAC01	1" BSP	10,0	11,0	56,0	77,0	36,0	10
SAC5MA	M5"	4,0	4,0	18,0	26,0	8,0	100
SAC18FEM	1/8" FEM BSP	8,0	7,0	30,0	45,0	13,0	50



### ART. SBT

CODICE	A	E	F	L	H	N	
SBT18	1/8" BSP	12	6	15	25	4	100
SBT14	1/4" BSP	16	7	20	30	3	50
SBT38	3/8" BSP	19	8	27	38	3	25
SBT12	1/2" BSP	23	10	28	42	4	25
SBT34	3/4" BSP	29	10	38	52	4	10
SBT01	1" BSP	36	12	46	65,5	7,5	10

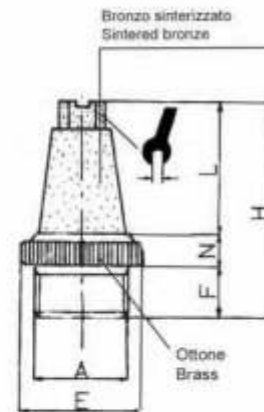




ART. SBTE-SBTT

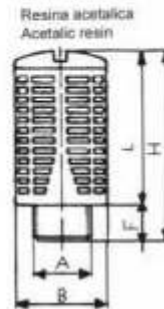
CODICE	A	E	F	L	H	N		
SBTT18	1/8" BSP	12	6	15	25	4	6	100
SBTT14	1/4" BSP	16	7	20	30	3	7	50
SBTT38	3/8" BSP	19	8	27	38	3	10	25
SBTT12	1/2" BSP	23	10	28	42	4	13	25
SBTT34	3/4" BSP	29	10	38	52	4	17	10
SBTT01	1" BSP	36	12	46	65,5	7,5	22	10
SBTE18	1/8" BSP	12	6	15	25	4	6	100
SBTE14	1/4" BSP	16	7	20	30	3	7	50
SBTE38	3/8" BSP	19	8	27	38	3	10	25
SBTE12	1/2" BSP	23	10	28	42	4	13	25
SBTE34	3/4" BSP	29	10	38	52	4	17	10
SBTE01	1" BSP	36	12	46	65,5	7,5	22	10

SBTE = Senza taglio    SBTE = Without screwdriver



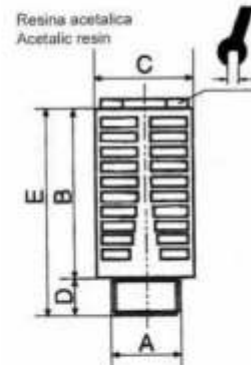
ART. SPL    Dinamico  
Dynamic

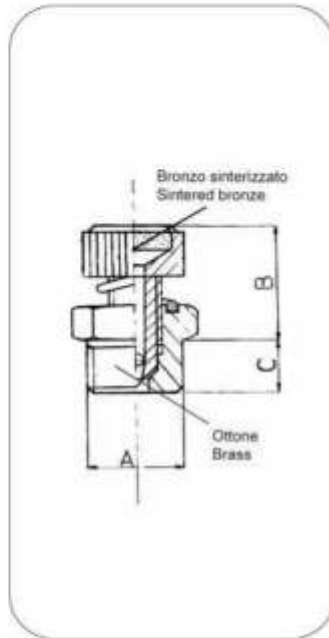
CODICE	A	B	F	L	H		
SPL18	1/8" BSP	15	8	27	35		100
SPL14	1/4" BSP	19,5	9	36	45		100
SPL38	3/8" BSP	24,5	11	47	58		50
SPL12	1/2" BSP	24,5	11	47	58		50
SPL34	3/4" BSP	48	18	96	114		10
SPL01	1" BSP	48	18	96	114		10



ART. SPLF    Feltro - Statico  
Felt - Static

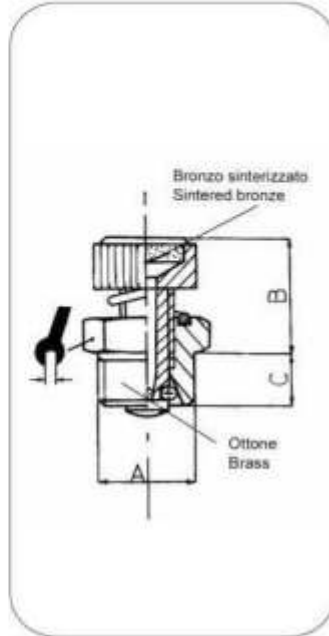
CODICE	A	B	C	D	E		
SPLF18	1/8" BSP	28	16	6	34	10	100
SPLF14	1/4" BSP	36	19	8	44	12	100
SPLF38	3/8" BSP	46	24	10	56	17	50
SPLF12	1/2" BSP	46	24	10	56	17	50





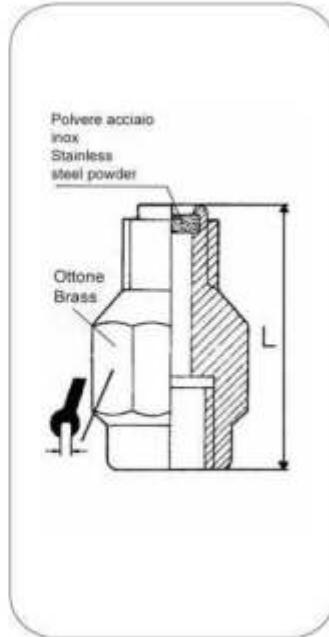
### ART. SVE

CODICE	A	min B max		C	
SVE18	1/8" BSP	20	22	6	100
SVE14	1/4" BSP	22	24	8	50
SVE38	3/8" BSP	25	28	10	25
SVE12	1/2" BSP	26	29	11	25
SVE34	3/4" BSP	32	37	12	10
SVE01	1" BSP	32	37	12	10



### ART. RBP

CODICE	A	min B max		C		
RBP18	1/8" BSP	14	19	6,0	12,0	100
RBP14	1/4" BSP	17	22	8,0	15,0	50
RBP38	3/8" BSP	18	24	9,0	19,0	25
RBP12	1/2" BSP	18	24	10,5	22,0	25



### ART. SM

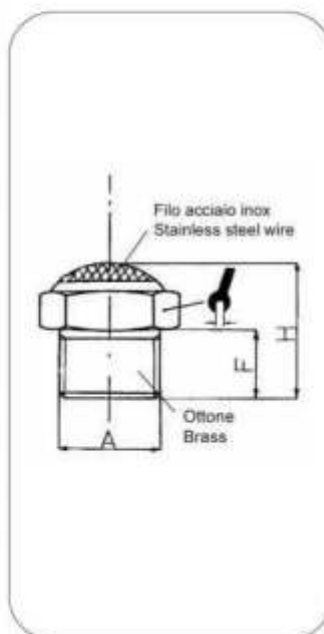
CODICE	A		L	
SM 1018	1/8" BSP	14	30	50
SM 2014	1/4" BSP	19	36	25
SM 3038	3/8" BSP	27	45	25
SM 4012	1/2" BSP	30	50	25

#### Categoria

A	0 - 20	Kg/cm <sup>2</sup>
B	20 - 100	Kg/cm <sup>2</sup>
C	+ 100	Kg/cm <sup>2</sup>

## ART. SFE

CODICE	A	F	H		
SFE18	1/8" BSP	6	15	13	100
SFE14	1/4" BSP	7	18	16	50
SFE38	3/8" BSP	8	20	19	50
SFE12	1/2" BSP	10	22	24	25
SFE34	3/4" BSP	10	26	30	25
SFE01	1" BSP	12	28	36	20
SFE5MA	M5"	4	8	8	100
SFE18FEM	1/8" FEM BSP	7	18	14	50



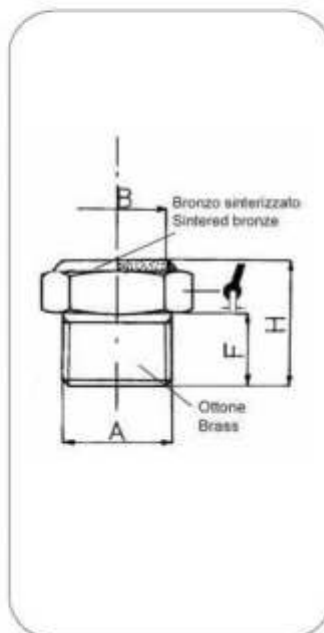
## ART. SFEX

CODICE	A	F	H		
SFEX18	1/8" BSP	6	15	13	100
SFEX14	1/4" BSP	7	18	16	50
SFEX38	3/8" BSP	8	20	19	50
SFEX12	1/2" BSP	10	22	24	25
SFEX34	3/4" BSP	10	26	30	25
SFEX01	1" BSP	12	28	36	20



## ART. SEP

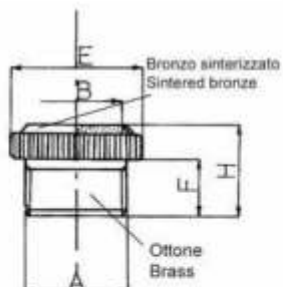
CODICE	A	B		F	H	
SEP18	1/8" BSP	11	13	6	14	100
SEP14	1/4" BSP	14	16	7	17	50
SEP38	3/8" BSP	17	19	8	18	25
SEP12	1/2" BSP	22	24	10	20	25
SEP34	3/4" BSP	28	30	10	23	10
SEP01	1" BSP	35	36	12	25	10
SEP5MA	M5"	7	8	5	12	100
SEP18FEM	1/8" FEM BSP	11	14	7	17	50





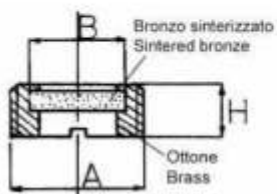
### ART. SBP

CODICE	A	B	E	F	H	
SBP18	1/8" BSP	11	12	6	12	100
SBP14	1/4" BSP	14	16	7	13	50
SBP38	3/8" BSP	17	19	8	17	25
SBP12	1/2" BSP	22	23	10	18	25
SBP34	3/4" BSP	28	29	10	20	10
SBP01	1" BSP	35	36	12	21	10
SBP5MA	M5"	11	12	5	11,5	100
SBP18FEM	1/8" FEM BSP	11	12	7	13	50



### ART. SP

CODICE	A	B	H	
SP18	1/8" BSP	6	5	100
SP14	1/4" BSP	8	6	50
SP38	3/8" BSP	10	7	25
SP12	1/2" BSP	15	8	25
SP34	3/4" BSP	20	9	10
SP01	1" BSP	26	10	10

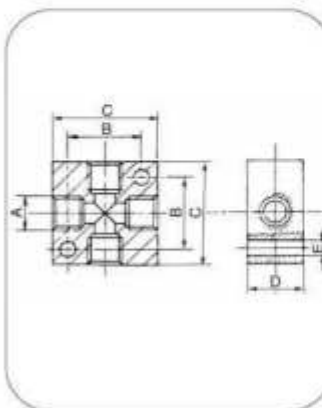




**ART. RIP4V**

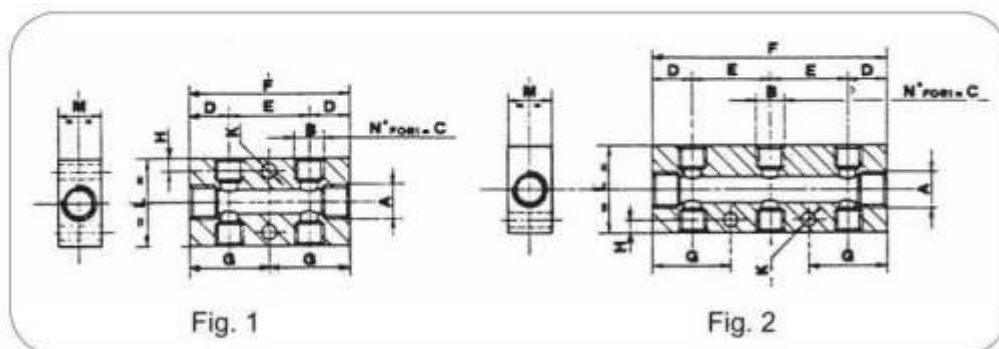
Ripartitore a 4 vie  
Aluminium cross manifold

CODICE	A	B	C	D	E	
RIP4V1815	1/8"	17	25	15	4.5	25
RIP4V1816	1/8"	23	30	16	4.5	25
RIP4V1418	1/4"	23	30	18	4.5	25
RIP4V1420	1/4"	26	40	20	5.5	25
RIP4V3820	3/8"	30	40	20	5.5	25
RIP4V3825	3/8"	33	50	25	5.5	25
RIP4V1230	1/2"	33	50	30	5.5	10



**ART. RIPUC**

Ripartitori con uscite contrapposte  
Opposite output manifolds



CODICE	FIG.	A	B	C	D	E	F	G	H	K	L	M	FILETTATURA / THREAD	
RIPUC15122	1	1/4"	1/8"	4	15	30	60	30	4.5	5.25	30	20	6 VIE 2-1/4" 4-1/8"	10
RIPUC15222	1	3/8"	1/4"	4	18	36	72	36	6	6.5	40	20	6 VIE 2-3/8" 4-1/4"	10
RIPUC15133	2	1/4"	1/8"	6	15	30	90	30	4.5	5.25	30	20	8 VIE 2-1/4" 6-1/8"	10
RIPUC15144	2	1/4"	1/8"	8	15	30	120	30	4.5	5.25	30	20	10 VIE 2-1/4" 8-1/8"	10
RIPUC15155	2	1/4"	1/8"	10	15	30	150	30	4.5	5.25	30	20	12 VIE 2-1/4" 10-1/8"	10
RIPUC15233	2	3/8"	1/4"	6	18	36	108	36	6	6.5	40	20	8 VIE 2-3/8" 6-1/4"	10
RIPUC15244	2	3/8"	1/4"	8	18	36	144	36	6	6.5	40	20	10 VIE 2-3/8" 8-1/4"	10
RIPUC15255	2	3/8"	1/4"	10	18	36	180	36	6	6.5	40	20	12 VIE 2-3/8" 10-1/4"	10
RIPUC15422	2	1/2"	1/4"	4	22	36	80	40	6	6.5	40	28	6 VIE 2-1/2" 4-1/2"	10
RIPUC15433	2	1/2"	1/4"	6	22	36	116	40	6	6.5	40	28	8 VIE 2-1/2" 6-1/2"	10
RIPUC15444	2	1/2"	1/4"	8	22	36	152	40	6	6.5	40	28	10 VIE 2-1/2" 8-1/4"	10
RIPUC15455	2	1/2"	1/4"	10	22	36	188	40	6	6.5	40	28	12 VIE 2-1/2" 10-1/4"	10
RIPUC15522	2	1/2"	3/8"	4	22	36	80	40	6	6.5	40	28	6 VIE 2-1/2" 4-3/8"	10
RIPUC15533	2	1/2"	3/8"	6	22	36	116	40	6	6.5	40	28	8 VIE 2-1/2" 6-3/8"	10
RIPUC15544	2	1/2"	3/8"	8	22	36	152	40	6	6.5	40	28	10 VIE 2-1/2" 8-3/8"	10
RIPUC15555	2	1/2"	3/8"	10	22	36	188	40	6	6.5	40	28	12 VIE 2-1/2" 10-3/8"	10



### Ugello rotondo a più canali POM

#### Circular multi-channel nozzle POM

#### **Pezzo di precisione stampato in plastica antiurto POM.**

In questo modello sono incorporati tutti i pregi dell'ugello piatto Elring, in più ne amplia il campo d'impiego ed è pure idoneo per un impiego fisso. Note: la forza soffiante è stata misurata a 50 mm dall'uscita e i valori sulla rumorosità sono dentro i parametri DIN 45645 comunicati alla università di Stoccarda.

Nel montaggio di questo ugello a più canali, deve essere sfruttata tutta la lunghezza del pezzo filettato.

#### **Dimensioni:**

55 x 23 x 10  
(lunghezza x diametro est. x lunghezza filettatura)

#### **Raccordo del tubo:**

R1/4"  
(filettatura esterna all'imbocco)

#### **Caratteristiche:**

antiurto sino a -40°C  
indeformabile sino a +90°C  
resistente a combustibili, oli minerali, lubrificanti e ogni tipo di solvente.  
Cod. 838.926

#### **Circular multi-channel nozzle POM**

Material: impact-resistant plastic  
This model combines the undisputed advantages of the Elring flat jet nozzle with a broader range of application and is ideal for stationary tasks. Note: the blowing force was measured 50 mm in front of the nozzle. The sound levels were measured at the university of Stuttgart in compliance with DIN 45635.

When installing Elring multi-channel nozzles, the full thread length should be used.

#### **Dimensions**

55 x 23 x 10  
8L x ext.diam. x thread length)

#### **Pipe connection:**

R 1/4" (external thread on air inlet)

#### **Characteristics:**

Impact-resistant down to -40°C  
Dimensional stability up to +90°C  
Resistant to fuels, mineral oils, lubricants and commonly used solvents.

Elring Part-No. 838.926

### Ugello rotondo a più canali AL

#### Circular multi-channel nozzle AL

#### **Pezzo di precisione stampato in alluminio**

Raccomandato in particolari condizioni d'impiego es. fonderia.

Campo d'impiego principale: pistole ad aria.

Note: la forza soffiante è stata misurata a 50 mm dall'uscita e i valori sulla rumorosità sono dentro i parametri DIN 45645, comunicati alla università di Stoccarda.

#### **Material: aluminium**

Recommended for particularly harsh operating conditions, such as high temperatures (foundries, etc.) Principle application: blow guns.

Note: the blowing force was measured 50 mm in front of the nozzle. The sound levels were measured at the university of Stuttgart in compliance with DIN 45635.

#### **Dimensioni:**

34 x 19 x 7.5  
(lunghezza x diametro est. x lunghezza filettatura),

#### **Raccordo per tubo:**

R1/4"  
(filettatura esterna all'imbocco)  
Codice: 923.702

#### **Dimensions**

34 x 19 x 7,5  
( L x ext. Diam. x thread length)

#### **Pipe connection:**

R 1/4" (external thread on air inlet) Elring Part-No. 923.702





Ugello piatto a più canali  
Multi-channel flat jet nozzle

**Dimensioni:**

90 x 47 x 14.5  
(lunghezza x larghezza x altezza)

**Tubo di raccordo:**

R1/4"  
(filettatura esterna sul tubo di entrata)

**Caratteristiche:**

Antiurto sino a -40° C  
- indeformabile sino a +90°C  
- resistente a combustibili, oli minerali o solventi di ogni tipo.

**Fornibile come:**

- Ugello piatto a più canali con listello a tappi. Cod. 069.523

**La forza soffiante mirata**

La disposizione parallela dei getti d'aria, permette di avere un ampio raggio di soffiatura nei pezzi trasportati.

Inoltre l'ugello piatto a più canali Elring è dotato di un listello a tappi speciale per la regolazione di chiusura dei fori. In questo caso i 16 fori sono selezionabili da 1 a 16.

Anche pezzi di piccole dimensioni lavorati su torni automatici, possono venire investiti da un getto d'aria ben preciso.

Tramite il listello di chiusura, è possibile dirigere a richiesta il flusso dell'aria. Anche questo, è un modo per risparmiare energia.

**Dimensions**

90 x 47 x 14,5 (LxWxH)

**Pipe connection:**

R 1/4 " (external thread on air inlet)

**Characteristics:**

Impact- resistant down to -40°C  
Dimensional stability up to +90°C  
Resistant to fuels, mineral oils, lubricants and commonly used solvents

**Form of delivery**

Multi-channel flat jet nozzle with shut-off bar

Elring Part-No. 069.523

**Concentrated blowing power.**

The parallel arrangement of the component air streams gives an optimum blow-out width for work piece conveyance. In addition; the Elring multi-channel flat jet nozzle is equipped with a special shut-off bar, so that between 1 and 16 nozzle apertures can be selected. Even the smallest finished parts, e.g. on lathes, can be accurately and efficiently blown out. The shut-off bar makes it possible to select the optimum outlet cross-section at the nozzle mouthpiece. This means a further saving in compressed air consumption.

Installation kit for stationary service, Elring part No. 021.652





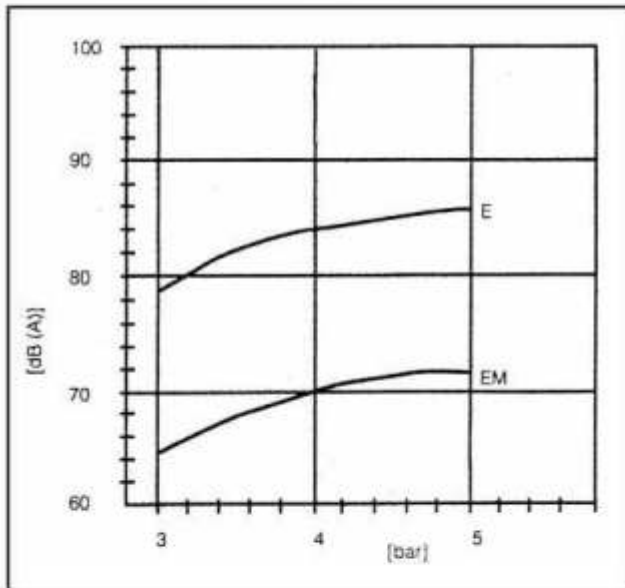
# Ugelli soffianti fonoassorbenti

## Low noise spray nozzles

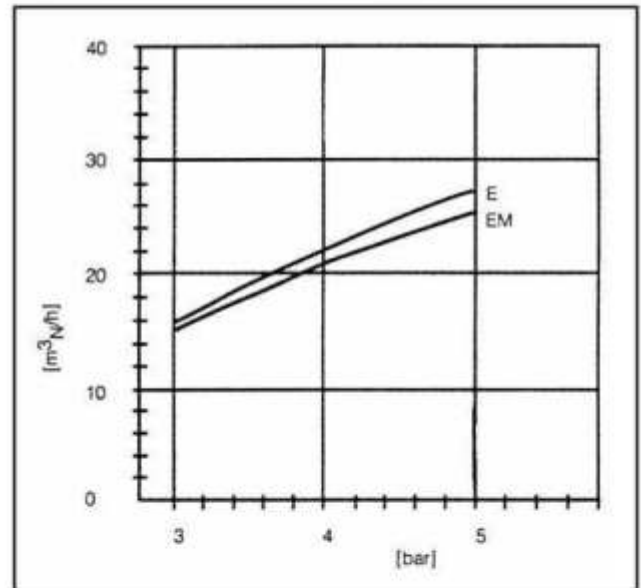
Caratteristiche di diversi ugelli di soffiatura aventi la stessa sezione di uscita  
Characteristic curves of different blow-out nozzles with the same outlet cross-sectional area

E = Ugello a un foro    EM = Ugello piatto a più canali Eling  
E = Single-hole nozzle    EM = Eling multi-channel flat jet nozzle

Livello d'intensità sonora oggettiva / Pressione  
Loudness level / Pressure

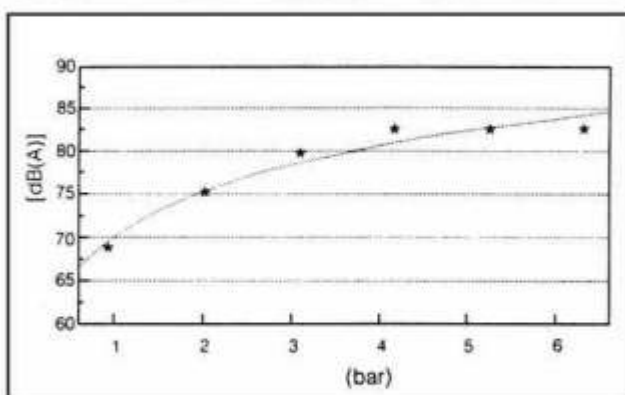


Consumo / Pressione  
Consumption / Pressure

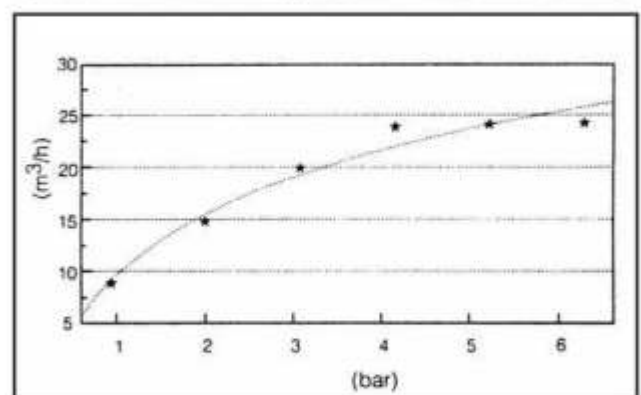


Caratteristiche degli ugelli rotondi a più canali  
Characteristic curves of circular multi-channel nozzles

Livello d'intensità sonora oggettiva / Pressione  
Loudness level / Pressure

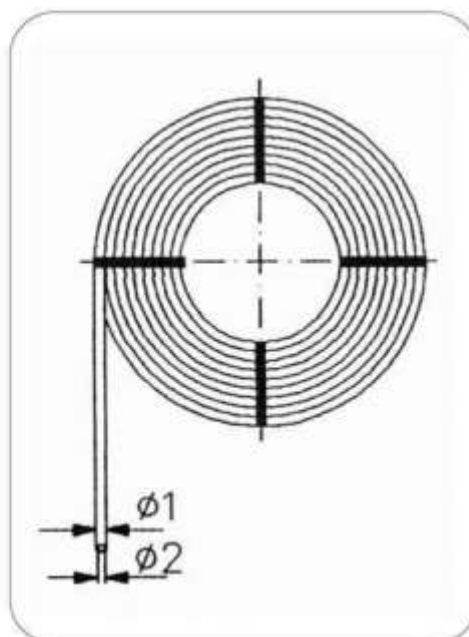



Consumo / Pressione  
Consumption / Pressure





ART. TPU


Tubo Poliuretano  
Polyurethane tube

CODICE	DXd mm.	P bar	P1 bar	R mm.	 m.
TPU0315 *	3 X 1.5	13.5	54	7.5	100
TPU0320 *	3 X 2	10	40	7.5	100
TPU0420	4 X 2	15	60	11	100
TPU0425	4 X 2.5	10	40	15	100
TPU0530 *	5 X 3	14	55	14	100
TPU0640	6 X 4	10	40	18	100
TPU0850 *	8 X 5	13	52	25	100
TPU0855	8 X 5.5	9	37	30	100
TPU0860	8 X 6	7	28	35	100
TPU1065	10 X 6.5	10	40	30	100
TPU1070 *	10 X 7	8.5	35	30	100
TPU1075	10 X 7.5	6.5	27	40	100
TPU1080	10 X 8	5.5	22	45	100
TPU1209	12 X 9	6	25	50	100
TPU1210 *	12 X 10	5	20	50	100
TPU1412 *	14 X 12	3	12	60	100

Scala di correzione in funzione della Temperatura  
Adjusting scale on atmospheric temperature basis

- 20°C	0°C	+23°C	+30°C	+40°C	+°C	+60°C	+70°C
1.87	1.4	1	0.84	0.70	0.60	0.52	0.47

D = diametro esterno – external diameter  
d = diametro interno – internal diameter  
P = pressione di esercizio – working pressure

P1 = pressione di scoppio – breaking pressure  
R = raggio di curvatura – bending radius  
 = rotolo confezione – roll packing

ATTENZIONE: GLI ARTICOLI CON ASTERISCO \* NON SONO GESTITI A MAGAZZINO, SOLO SU RICHIESTA  
ATTENTION: ITEMS WITH \* ASTERISK ARE NOT AVAILABLE IN STOCK, ONLY UPON REQUEST.



### TUBO POLIURETANO SH98A

Materiale dalle eccezionali caratteristiche meccaniche, questo tubo nasce per risolvere le problematiche legate ad applicazioni particolarmente gravose.

#### PROPRIETA' TECNICHE :

Durezza Shore A	98
Temperatura di applicazione	- 20°C +70°C
Allungamento a rottura	540% (DIN 53504)
Densità (gr./cm <sup>3</sup> )	1.18 (DIN 53479)
Perdita di abrasione (mm <sup>3</sup> )	55 (DIN 53516)
Resistenza allo strappo (KN/m)	120 (DIN 53515)

#### CARATTERISTICHE TECNICHE :

Eccellente resistenza all'abrasione.  
Altissima flessibilità alle basse temperature  
Buona resistenza agli agenti atmosferici.  
Buon invecchiamento nel tempo.  
Estremamente resistente alla fatica.  
Poco sensibile all'effetto "click" e "stress cracking".

#### ALTRE CARATTERISTICHE :

**Tolleranze:** Diametro esterno +/- 0,1 mm Spessore +/-0,1 mm  
**Colore :** Azzurro, rosso, nero, verde, giallo, neutro (non cristallino)  
**Confezione :** Bobine da mt. 100

#### PRINCIPALI APPLICAZIONI :

Robotica, Agricoltura, Pneumatica, Autofficine, ecc...

#### INFORMAZIONI GENERALI :

I poliuretani, pur essendo molto resistenti alla fatica o alle tensioflessioni, hanno la tendenza ad accumulare calore laddove vengono impiegati con pressioni pulsanti continue. Se tali condizioni si verificano in concomitanza con un'elevata temperatura ambiente, possono verificarsi rigonfiamenti o addirittura rotture del tubo.

Il poliuretano è in generale resistente all'ozono, idrocarburi, olii grassi, carburanti e soluzioni chimiche moderate. Non è resistente, o debolmente, ad acidi concentrati, ketoni, idrocarburi clorurati.

Sul tubo viene marcato il diametro int. x est., il tipo di materiale e il numero di lotto per la rintracciabilità. Ogni lotto di materiale viene accompagnato da certificato di conformità.

### POLYURETHANE TUBE SH98A

#### TECHNICAL PROPERTY :

Hardness Shore A	98
Temperature working range	- 20°C +70°C
Breaking Elongation	540% (DIN 53504)
Density (gr./cm <sup>3</sup> )	1,18 (DIN 53479)
Abrasion loss (mm <sup>3</sup> )	55 (DIN 53516)
Tensile strenght (N/mm <sup>2</sup> )	120 (DIN 53515)

#### TECHNICAL FEATURES :

Excelent resistance at the abrasion  
Good resistance at the atmospheric effects  
Good process of becomming old  
High flexibility at the lowest temperatures  
Extremely endeavor resistance  
Very low "click" and "stress cracking" effects

#### OTHER FEATURES :

**Tolerances :** O.D. +/-0,1 mm Thickness +/-0,1 mm  
**Colours available :** Blue, Red, Black, Green, Yellow, Neutral (not Cristal)  
**Packing :** 100 mt. Rolls in plastic film  
**Surface printing :** O.D. - I.D. - MATERIAL - LOT N.

#### MAIN APPLICATIONS :

Pneumatic, Robotic, agriculture, garage, etc.

#### GENERAL NOTICES :

Polyurethane tube material has excelent mechanical features and it is particularly addressed to mostly solve the heavy applications.

Anyway polyurethanes, although they are much resistant at the endeavor and at the flexion stress, trend to keep heat when working with continuous variable pressure and in case of high atmosphere temperature it could bring to the swelling or breaking of the tubing itself.

Polyurethane is normally also resistant to ozone, hydrocarbon, oils and greases, fuel and moderate chemical solutions.

It is not, or very low, resistant to concentrated acids, ketons, esters and chloride hydrocarbons.