BMS®

Nozzle

NOZZLE BY BMS®

MADE IN FRANCE

Discover our Range of Nozzles

Our range of high-performance nozzle is designed to meet the demands of high-temperature applications, especially where space constraints prevent the use of traditional heating systems. From standard immersion nozzle to customized spiral-heated solutions, we provide reliable and efficient heating for tooling and molding processes.
Each model is engineered for durability, optimal heat transfer, and ease of integration into your existing setup.

Removable tip nozzles

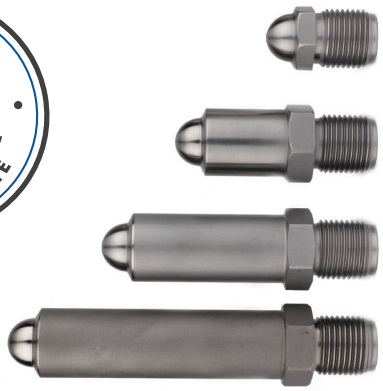
1

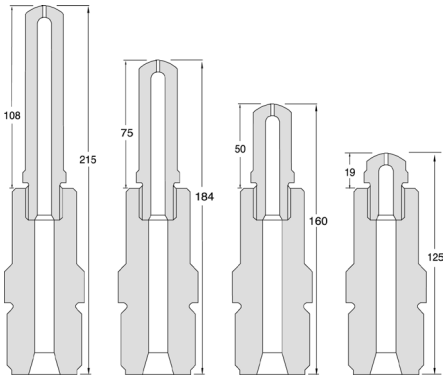
Significant savings compared to traditional monobloc nozzle
Replaceable tip nozzle with a machined rear thread to fit your machine and a standard 7/8"-14 female front thread to accept standard interchangeable tips.

Designed to replace monoblock nozzle: only replace the tip when it's damaged or when changing molds.
Precisely machined on CNC equipment and mirror-polished for optimal flow.
Nozzle are available in all lengths and can be supplied with 4 different tip lengths for applications with limited space.

Tips are also available in Cupro-Nickel for improved heat transfer.

100% OEM COMPATIBLE

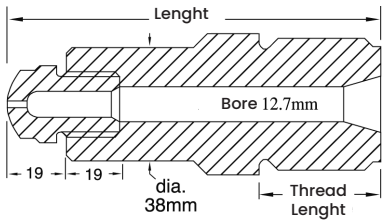




Removable Nozzle with different tips length

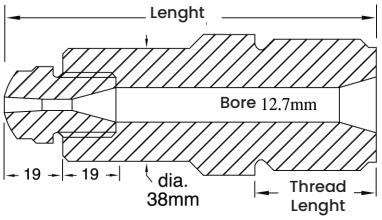
3 different types of tips:

Universal (GP)



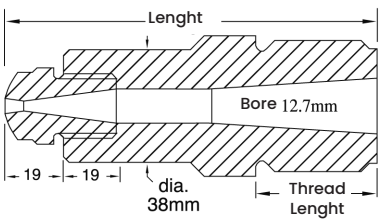
- Standard free-flow design. Minimal flow resistance and minimal back pressure
- Standard flow section Ø 12.7 mm, unless otherwise specified.

Polyamid (NRT)



- For use with polyamides, acrylics, and other expensive, heat-sensitive materials.
- The material flows through a 3 mm channel and then into an inverted cone.
  The sprue breaks inside the tip, reducing flash.

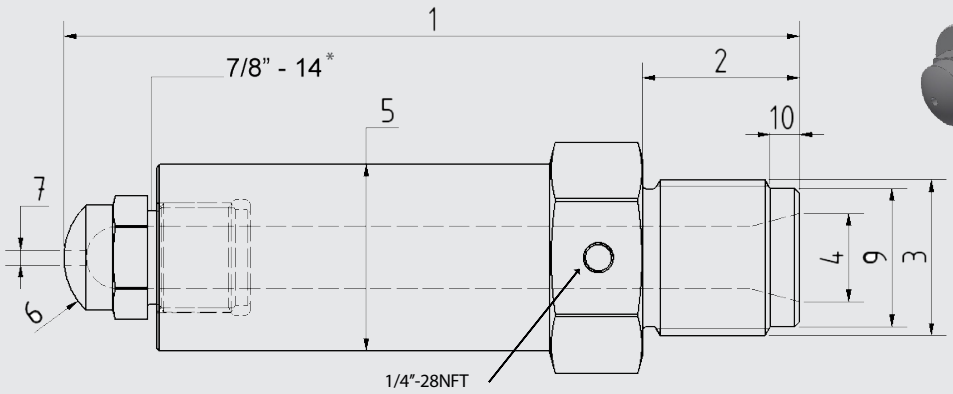
ABS (ABS)

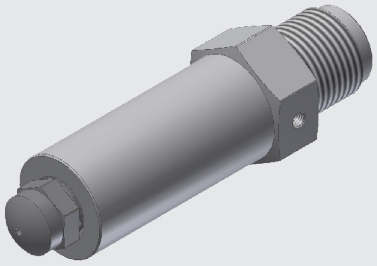


- For use with ABS, PVC, and other viscous materials.
- Reduces heat buildup and material retention zones.
- We recommend large openings to minimize flow resistance.
  Features a 75 mm long cone from the rear opening zone, with a 12.7 mm long internal channel.

mouldshop

Removable tip nozzles
Order form





Machine and Model

Injection rate
in cm ^{3}/s

(1) Total length

(2) Thread Length

(3) Thread Type
(M36x2 or 1"1/4-12UNF,...)

(4) Rear opening

(5) Body diameter (30, 38, ...)

(6) Radius

*Autres sur demande

(7) Opening (1.5, 2.5, 3, 4,...)

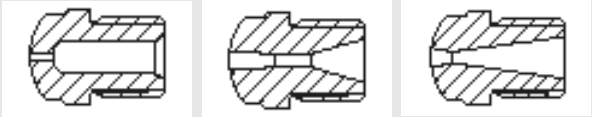
(8) Internal Design
- ☐ Universal (GP)
- ☐ Polyamid (NRT)
- ☐ ABS (ABS)

(9) Ø relief

(10) Relief length

(8) Type

☐ Universal (GP) ☐ Polyamid (NRT) ☐ ABS (ABS)



ABS & NRT : Opening mini : 3mm

Tip length

- ☐ 38 mm (1)
- ☐ 70 mm (2)
- ☐ 95 mm (3)
- ☐ 127 mm (4)

Length 70, 95 & 127mm are not available in ABS version

(6) Radius

- ☐ 35 mm (8)
- ☐ 30 mm (R30)
- ☐ 19 mm (7)
- ☐ 15 mm (6)
- ☐ 12,7 mm (5)
- ☐ 10 mm (R10)
- ☐ 9 mm (9)
- ☐ 120° (4)
- ☐ 90° (3)
- ☐ 70° (1)
- ☐ 60° (2)
- ☐ Other

(7) Opening

- ☐ 1,5 mm (I)
- ☐ 2 mm (H)
- ☐ 2,5 mm (J)
- ☐ 3 mm (K)
- ☐ 4 mm (L)
- ☐ 5 mm (M)
- ☐ 5.5 mm (Q)
- ☐ 6 mm (N)
- ☐ 6.5 mm (R)
- ☐ 7 mm (S)
- ☐ 8 mm (O)
- ☐ 9,5 mm (P)
- ☐ Other

GP	1	6	K

Example: GP16K
Universal type (GP) - Tip lenght 38mm (1) - Radius 15mm (6) - Opening 3 mm (K)

Removable Nozzle Tips Steel & Cupro-Nickel

2

Significant savings compared to traditional monobloc nozzle
Replaceable tip nozzle with a machined rear thread to fit your machine and a standard 7/8"-14 female front thread to accept standard interchangeable tips.

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Precisely machined on CNC equipment and mirror-polished for optimal flow.
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Tips are also available in Cupro-Nickel for improved heat transfer.

Length (mm)	Type	High-strength alloy steel	Cupro-nickel
38	Universal	GP1	BGP1
38	Nylon	NRT1	BNR1
38	ABS	ABS1	BABS1
70	Universal	GP2	BGP2
70	Nylon	NRT2	BNRT2
95	Universal	GP3	BGP3
95	Nylon	NRT3	BNRT3
127	Universal	GP4	-
127	Nylon	NRT4	-

Note : Please ensure the nozzle tips are properly tightened when delivered pre-mounted!

Excellent thermal transfer properties, making them ideal for applications where maintaining a high temperature at the nozzle tip is crucial or when the use of a band heater is not possible.

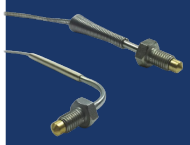
Two grades of Cu-Ni are available to offer you the most suitable solution.
Please contact our sales team: they will assess your application constraints and recommend the best option.

NOTE: Use NRT type for a minimum orifice of 3 mm.

For the assembly of nozzle, adaptators, tips, ...

MICA NOZZLE BAND HEATERS

Waterproof design with brazed connections to prevent material infiltration and extend service life.



THERMOCOUPLE TYPE NA

All BMS nozzle are supplied with a threaded flat for these cost-effective thermocouples with a 1/4"–28 NFT sheath.

SPANNERS

Ideal for nozzle installation and Removable.

MOULDPRO COPPER ANTI-SEIZE MCS500

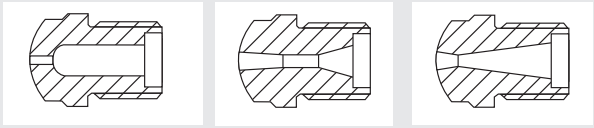
Copper-based lubricant for smooth assembly of threaded parts, ensuring accurate torque and preventing seizing

Available on mouldshop

Removable Nozzle Tips
Order form

Type

- ☐ Universal (GP)
- ☐ Polyamid (NRT)
- ☐ ABS (ABS)



ABS & NRT : Opening mini : 3mm

Tip length

- ☐ 38 mm (1)
- ☐ 70 mm (2)
- ☐ 95 mm (3)
- ☐ 127 mm (4)

Length 70, 95 & 127mm are not available in ABS version

Radius

- ☐ 35 mm (8)
- ☐ 30 mm (R30)
- ☐ 19 mm (7)
- ☐ 15 mm (6)
- ☐ 12,7 mm (5)
- ☐ 10 mm (R10)
- ☐ 9 mm (9)
- ☐ 120° (4)
- ☐ 90° (3)
- ☐ 70° (1)
- ☐ 60° (2)
- ☐ Other

Opening

- ☐ 1,5 mm (I)
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- ☐ 3 mm (K)
- ☐ 4 mm (L)
- ☐ 5 mm (M)
- ☐ 5.5 mm (Q)
- ☐ 6 mm (N)
- ☐ 6.5 mm (R)
- ☐ 7 mm (S)
- ☐ 8 mm (O)
- ☐ 9,5 mm (P)
- ☐ Other

GP	1	6	K

Example: GP16K
Universal type (GP) - Tip length 38mm (1) - Radius 15mm (6) - Opening 3 mm (K)

Standard Removable Tips

Standard Removable Tip Nozzle OEM
Ensures reliable performance, easy replacement, and full compatibility with original equipment. Features Ø body 38 mm, probe hole on the flat, and 1/4"-28 NFT tightening.

Ø body 38 mm, probe hole on the flat, and 1/4"-28 NFT tightening for optimal compatibility and easy installation.

	Machine	Reference	Thread	Rear Opening (mm)	Thread length (mm)
ARBURG	80	ASS	24 x 1,5	8	30
	80	AX	24 x 1,5	8 ou 10	30
	A	AM	30 x 1,5	23,7	21
	A	ACB	35 x 2	18	28
	B	ACC	36 x 2	12, 18 & 22	35
		ACCD	36 x 2	24	33
	B	AH	45 x 1.5	25 & 30	34
	B	AB	45 x 2	22	36
	ø relief 41 or 42 mm	AD	45 x 2 left & right	25	36
	B	AE	45 x 2	30	36
	B	AV	50 x 2	30	36
	B	AG	50 x 2	35	36
	B	ACE	52 x 2	35	36
	B	AN	55 x 2	30	33
	B	AI	55 x 2	40	36
	B	AL	60 x 2	45	36
WITTMAN	50/20	GO	32 x 2	21	26
	A	BTG	35 x 2	12	28
	L/F to specify	BT	35 x 2	1/2"	40
	350	BTE	35 x 2	18, 22 & 25	27
	A	BM	35 x 2	20	25
	50, 300, 75HK, BSKM100	GP	35 x 2	21	25,4
	100, 160, 225,	BG	35 x 2	21	28
	650/300	BE	35 x 2	22	30
	BA230, Plus250, BSKM 45/20	GM	35 x 2	25	26
	C	BP	40 x 2	1/2"	50
	PLUS350	BTK	40 x 2	18	30
	A	BZZ	40 x 2	21	31
	BSKM400, 350	BB	40X2	25	28
	A	BTJ	40 x 2 LXF* 29	30	29,5
		BLC	45 x 2	25	25
	A	BX	45 x 2	34	30
	BSKM 750, 1200	BTL	65 x 3TR or M65 x 3	48	51
	C	BL	65 x 3	2"	50

Standard Removable Tips

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Ensures reliable performance, easy replacement, and full compatibility with original equipment. Features Ø body 38 mm, probe hole on the flat, and 1/4"-28 NFT tightening.

	Machine	Reference	Thread	Rear Opening (mm)	Thread length (mm)
BILLION		BJA	24 x 2	8	33
	140T B	BJC	30 x 2	14 or 21	41
	A	BJB	35 x 1.5	27	27
	H1300/2000 B	BJE	36 x 2 conical seat	10	44
	H1295/300TP	BJX	40 x 2	20	42
		BJD	50 x 2	36	52
	C	BJI	60 x 3	25	36
	C	BJF	62 x 3	40	49
		BJG	65 x 3	25	63
	C	BIG	65 x 3	40	63
BOY	15, 22, 30	BD	24 x 1,5	14	29
	A	BBE	30 x 1,5	14	30
	25M A	BBC	30 x 2	14	29
	50-80 A	BY	35 x 1,5	16	36
	50	BW	35 x 1,5	22	22
DEMAG		DND	24 x 1.5	8	30
	D55 1992 B	DL	33 x 2	20	30
	C	DNB	36 x 1.5	27	24
	C	DD	40 x 2	27	45
	New Ergo Tech	DO	40X3 left & right	8	38
	525 B	DB	45X3 LXF* 31 mm	25	31
	NG111 B	DJ	45X3 LXF* 44 mm	25	44
	A	DE	45 x 2	30	18
	New Pro	DNC	48 x 1.5	25	35
		DNE	48 x 3	32	35
	240 - 165/F C	DC	60 x 2	30	45
	B	DH	60 x 2	31	36
	Ergotech ET200-840175 D150 D210 D250 NC111,NCL B	DN	60 x 3	25	36
	B	DG	60 x 3	31	36
	B	DM	60 x 3	32	40
	D360 390 NC111 B	DK	60 x 3	40	40
ENGEL	60T & 80T	EOT	26 x 1.5	14	22
	200/50	EU	28 x 1.5	8 or 12	33
	150T A	EOO	30 x 2	10 or 12	31

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	Machine	Reference	Thread	Rear Opening (mm)	Thread length (mm)
ENGEL	A	EW	1-1x4"-9 BSF	7/8"	32
	A	EOE	1-1x4"-10	19	32
	7A B	EF	1-1x4" BSF	27	35
	25T/35T A	EON	1-3x8" Whitworth	21.5	26
		EOL	1-1x4"-10	1/2"	32
	A	ET	32 x 2.5	20	31
	A	EY	32 x 1.5	20	28
	ES50 A	EB	35 x 2	16	19
	A	EOH	35 x 2	22	28
	40/17 A	EN	36 x 1.5	22	26
	100T, ES300 100 A	EJ	40 x 2	24	32
	90 A	EI	40 x 2	26	23
	60/75 Ton A	EOC	40 x 2	27.5	23
	50/75 A	EK	40 x 2	25	25,4
	B	EV	40 x 3	30	34
	B	EM	45 x 2	16	39
	90/50	EP	45 x 2	27.5	25
	WS1300 200-250	EE	45 x 3	19	33
	90	ED	45 x 3	20	32
	350/150	EO	45 x 3	32	34
	B	EOG	45 x 3	34	33
	A	EL	55 x 3	30	28
	ES 750/250 A	EC	55 x 3	32	26
	ES2000/350N C	EX	55 x 3	35	44
	650T B	EZ	64 x 2	42	35
FANUC		FANA	24 x 2	13	22
		FANB	36 x 4	16	36,3
HAITIAN		HAC	M39 x 2	16 - 18 - 19	36
		HAZ	M45 x 4	20	60
HUSKY	C	HJ	45 x 3	22	45
JSW	350T	JTC	30 x 2	7.3	31
		JTG	30 x 2	15	44
	C	JB	50 x 3	10	55
	A	JD	50 x 3 Short Pilot	15	30
	C	JX	50 x 3 / 26 Pilot	15	55
	B	JG	55 x 3	8	40
	B	JE	55 x 3	20	37

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	Machine	Reference	Thread	Rear Opening (mm)	Thread length (mm)
KLOCKNER FERROMATIC		KZZ	30 x 1.5	8	16
		KMD	30 x 1.5	9	16
		KMC	30 x 1.5	1/2"	16
	A	DE	45 x 2	30	18
	Klockner Milacron	KMI	48 x 3	32	27
	B	KY	58 x 3	35	44,5
	KM150, 250, KM90 340B A	KE	48 x 3 Female	12	41
	KM65/220/C2	KNL	48 x 3 Male	32	35
	A	KN	55 x 3	33	40
	C	KNI	58 x 3	45	50
	B	KF	64 x 3 Female	12 (12.7)	44
	KHS80 C	KNK	65 x 3	50	58
	KHS120E KHS160 B	KG	70 x 3 Female	20	44
DK	75-100 125-200 290-410	DKA	24 x 1.5	9, 10 & 12	18
	400-600 675-1000 1600	DKB	30 x 2	12 & 14	24
	75-100 125-200 290-410	DKA	24 x 1.5	9, 10 & 12	18
	400-600 675-1000 1600	DKB	30 x 2	12 & 14	24
NEGRI BOSSI	V17-110	NZZ	30 x 1.5 or 16TPI	19	22
	V17-110	NZZU	30 x 1.5 or 16TPI Conical seat	19	22
		NHB	35 x 1.5	16	34
	25/40	NXB	40 x 2	20	27
		NP	40 x 2	27	40
	V22/175FA, 190, 210, 250TEC	NL	40 x 2	28	28
		NGZ	48 x 2	19	35
	40T	NHM	48 x 2	25	35
	25,4	NM	48 x 2	28	38
	60T	GC	52 x 2.5	28	40
	60T	NHD	52 x 3	19	40
	60T	NY	58 x 2	35	45
	NB80	NHF	58 x 3	30	45
	NB62 V Series	NHN	58 x 3	32	45
		NHD	58 x 3	32	40
	NB62 V7 9FA	NH	58 x 3	38	38

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	Machine	Reference	Thread	Rear Opening (mm)	Thread length (mm)
NEGRI BOSSI		NHD	58 x 3	32	40
	NB62 V7 9FA	NH	58 x 3	38	38
	345, 360	NE	64 x 2 LXF* 55	34	55
	100, 150TEC	NHT	64 x 2	35	57
	90T	NV	64 x 2	38	57
	210SV, B330 300T, 250, 260, 150TEC, 300TEC 350, 80, 400	NK	64 x 3 LXF* 41	34	38
	250SV, 300, 400, 400TEC	NKL	64 x 3 LXF* 60	34	57
	100, 80, 80SV	NHZ	64 x 3	35	57
	80, 80SV, 100 NB150TEC	NHO	64 x 3	40	57
	400, 520, 550, 650, 700, 720, 800, 950	NHC	64 x 3	42	57
	NB700	NHCU	64 x 3 Conical seat	42	57
	80SV	NEL	64 x 3 61 LXF*	45	57
	NB150TEC	NF	64 x 3	45	57
		NFU	64 x 3 Conical seat	45	57
		NFV	64 x 3	45	57
		NHE	70 x 2	38	64
		SJ	70 x 2	45	64
	100SV, 150, 210TEC	NHV	70 x 3	40	60
	100SV, 150, 150SV, 210TEC	NHH	70 x 3 63 LXF*	45	60
	100SV, 150, 150SV, 210TEC	NHW	70 x 3	52	60
	NB 150T 1990	NIU	70 x 3 Flat seat 45 LXF*	55 Check R/O	45
	NB130	NHG	74 x 2	55	57
NESTAL	B	NFT	48 x 3	13	35
	75 B	NO	48 x 3	29	35
	140, 75 B	NU	48 x 3	32	35
	150, 300, 140T 83	NOZ	56 x 3	32	43
	140, 150, 300	NFE	56 x 3	42	38

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	Machine	Reference	Thread	Rear Opening (mm)	Thread length (mm)
NISSEI	2A, 5A A	NJT	20 x 1.5	8	21
	A	NT	35 x 2 24 LXF*	20	24
	9A, 12A, 18A, 25A, 36A B	NG	40 x 2	20	37,5
	9A, 12A, 18A, 25A, 36A B	IC	40 x 2	30	39
	50A, 71A, 100A, FS250 B	NJC	50 x 2	25	41
	50A, 71A, 100A B	NJ	50 x 2	26	41
	140A, 200A C	ND	60 x 2	30	47
	280A, 420A D	IT	80 x 2	40	82,5
SANDRETTO	Micro vis dia. 24mm C	SBK	48 x 3	24	55
	New 8 series	SY	48 x 3	30	50
	Micro vis dia. 28mm	SBH	50 x 3	28	50
	Micro vis dia. 32mm	SBM	50 x 3	32	50
	C	SBG	50 x 3	32	50
		SIT	50 x 3	33	55
	New 8 series	SQ	50 x 3	35	50
	135T 95B Séries 7 170T	SK	50 x 3 Conical	35	50
	Micro vis dia. 36mm	SBI	50 x 3	36	53
	Séries 7 Serie 7GV 60/200 D	SP	55 x 3	40	50
	7 Serie 135	SBN	65 x 3	50	40
	D	SBD	76 x 3	60	70
	Mega	SBP	85 x 3	55	75
	S7 D	SBC	85 x 3	70	85
SUMITOMO	C360, 450, C560, C900, C1250 A	SZ	48 x 2	12	36
TEDERIC		TEA	M30 x 3	12	27
		TEB	M33 x 2	16	31
		TEC	M42 x 3	20	37
		TED	M56 x 3	25	43
		TEE	M56 x 3	35	43

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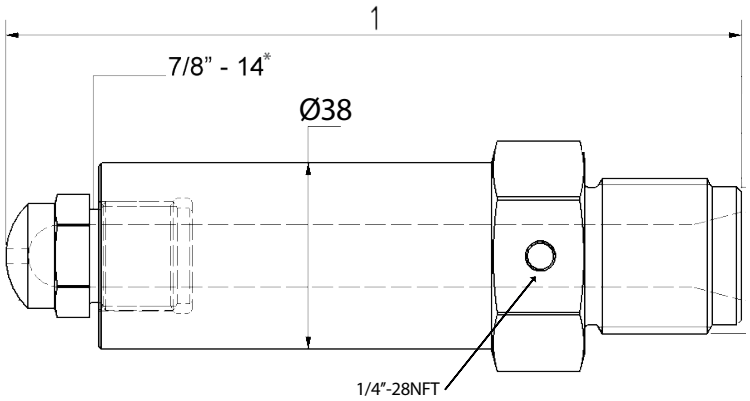
	Machine	Reference	Thread	Rear Opening (mm)	Thread length (mm)
TOSHIBA	EN150 170T A	TZZ	36 x 1.5	10	21,5
TOYO	B	TM	42 x 3	24	35
WOOJIN	TE30, TE50	WOA	42 x 3	18	39
	TE30, TE50	WOB	42 x 3	22	39
	TE30, TE50	WOC	42 x 3	25	39
	TE110 à TE450, TE110A5 à TE450A5, TH50 à TH450	WOD	40 x 2,5 R	15	38
		WOE	40 x 3	20	37
		WOF	36 x 2,5	14	35
		WOG	36 x 2,5	16	35
		WOH	36 x 2,5	18	35
		WOI	42 x 3	20	39
		WOJ	60 x 2,5	25	54
		WOK	27 x 1,5	15	25

Available in different lengths for optimal adaptability.



Ref	3	5	6	7	8	9	10	11	12
Length (1)	95	125	150	175	200	225	250	275	300

For example : EE5 = Nozzle Engel M45 x 3 OAL = 125mm

We manufacture nozzles and parts for your injection molding machines at our production site. Equipped with state-of-the-art CNC machining centers and lathes, we ensure precision and reliability at every stage. Our assembly and inspection teams guarantee strict quality control throughout the entire process. Special and urgent requirements are handled by our technicians all year round, without interruption.

NOZZLE BY BMS®

Internally heated nozzle

3

Significant savings compared to traditional monoblock nozzle
Replaceable tip nozzle with a machined rear thread to fit your machine and a standard 7/8''-14 female front thread to accept standard interchangeable tips.

Designed to replace monoblock nozzle: only replace the tip when it's damaged or when changing molds.
Precisely machined on CNC equipment and mirror-polished for optimal flow.
Nozzle are available in all lengths and can be supplied with 4 different tip lengths for applications with limited space.

Tips are lso available in Cupro-Nickel for improved heat transfer.

The ideal solution for all high-temperature applications with immersion nozzle.

Designed for use on tooling (or any other application) where the center-to-center spacing is insufficient to allow for traditional heating elements such as band heaters.
Our nozzle are offered with spiral heaters and built-in thermocouples.

Features

- Adjustable positioning of the outlet by 360°
- Burnished protective cover for optimal protection against corrosion
- Headless fixing screw with M5 pin: limited space requirement
- Nozzle entirely made of treated steel 110 kg or 48/52 Hrc on request

Benefits

No more heater bands

No more degradation issues due to material leakage

Faster return on investment

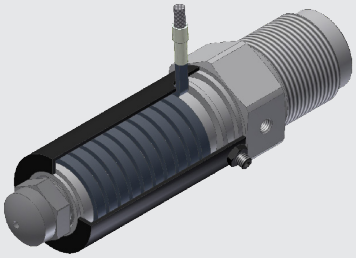
Higher heating power than standard bands = faster start-up

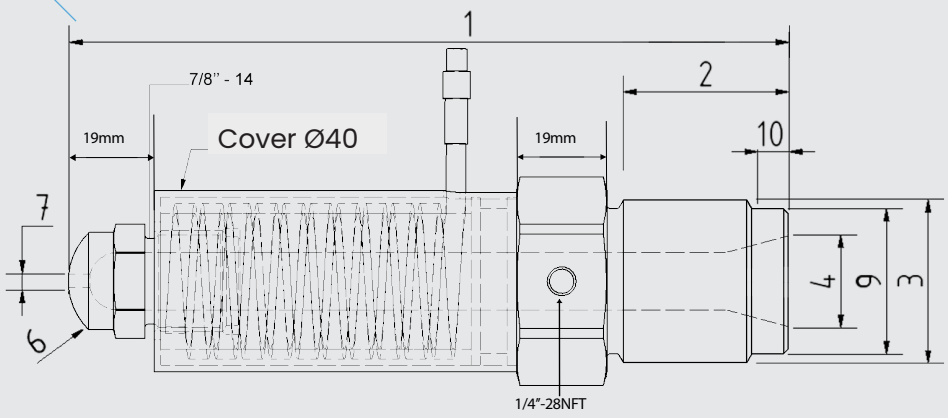
Built-in thermocouples

Resistance 4.2 x 2.2 with TC type J

Body length (mm)	Power (W)	Reference	Forming	Cover
30	250	0220350250TC	Ø30 x 20mm	CAP30
50	330	0220450330TC	Ø30 x 40mm	CAP50
75	620	0220800620TC	Ø30 x 65mm	CAP75
100	850	0221000850TC	Ø30 x 90mm	CAP100
125	1100	0221401100TC	Ø30 x 115mm	CAP125
150	1100	0221401100TC	Ø30 x 140mm	CAP150

Internally heated nozzle
Order form





Body length

☐ 30 mm ☐ 40 mm ☐ 50 mm ☐ 60 mm ☐ 70 mm
☐ 80 mm ☐ 90 mm ☐ 100 mm ☐ 125 mm ☐ 150 mm

Machine and Model

Injection rate in cm^3/s

(1) Total length

(2) Thread Length

(3) Thread Type
(M36x2 or 1"1/4-12UNF,...)

(4) Rear opening

(6) Radius
(12,7mm, 15mm, 19mm, 35 mm...)

(7) Opening (1.5, 2.5, 3, 4, ...)

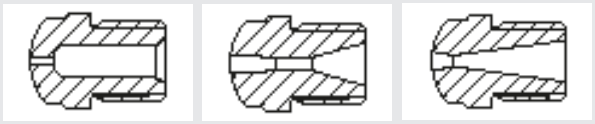
(8) Internal Design
☐ Universal (GP)
☐ Polyamid (NRT)
☐ ABS (ABS)

(9) Ø relief

(10) Relief length

(8) Type

☐ Universal (GP) ☐ Polyamid (NRT) ☐ ABS (ABS)



ABS & NRT : Opening mini : 3mm

Tip length

☐ 38 mm (1)
☐ 70 mm (2)
☐ 95 mm (3)
☐ 127 mm (4)

Length 70, 95 & 127mm are not available in ABS version

(6) Radius

☐ 35 mm (8)
☐ 30 mm (R30)
☐ 19 mm (7)
☐ 15 mm (6)
☐ 12,7 mm (5)
☐ 10 mm (R10)
☐ 9 mm (9)
☐ 120° (4)
☐ 90° (3)
☐ 70° (1)
☐ 60° (2)
☐ Other

(7) Opening

☐ 1,5 mm (I)
☐ 2 mm (H)
☐ 2,5 mm (J)
☐ 3 mm (K)
☐ 4 mm (L)
☐ 5 mm (M)
☐ 5.5 mm (Q)
☐ 6 mm (N)
☐ 6.5 mm (R)
☐ 7 mm (S)
☐ 8 mm (O)
☐ 9,5 mm (P)
☐ Other

GP	1	6	K

Example: GP16K
Universal type (GP) - Tip lenght 38mm (1) - Radius 15mm (6) - Opening 3 mm (K)

NOZZLE BY BMS®

Mixing Nozzles

4

The BMS static element mixing nozzle incorporates specific mixing elements called ISG (Interfacial surface generator). 4 to 6 stainless steel elements are inserted into a speciale bore.
Static mixing allows material to be blended without the use of moving parts.
Plastic is propelled through the mixer, which homogenizes the material with minimal stress.

The two available systems consist of static elements with strong homogenizing capabilities.
They feature no moving parts and are easy to disassemble for cleaning.
They can be equipped with filters or shut-off valves.

Features

No moving parts: Minimal wear, reduced maintenance

Homogeneous mixing: ISG elements ensure optimal material distribution

Durable design: High-strength steel, monolithic structure, easy to clean

What is static mixing?

Static mixing allows materials to be blended without the use of moving parts. The plastic is pushed through the mixer, which homogenizes the material with minimal stress.

Purpose of a static mixer

To homogenize the mixture, meaning to create a uniform material that is consistent in all its components.
Applications include thickness control for sheets and films, distribution and uniformity of cell size, tube walls, wires and cables, and other thickness-related issues.

The two available systems consist of static elements with high homogenizing efficiency.
These nozzle have no moving parts and are easy to disassemble for cleaning.
They can be equipped with filters or shut-off valves.

2 MODELS

ISOMIX type mixing elements p. 19

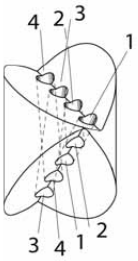
XPS type mixing elements p. 21

Mixing nozzle - ISOMIX

The system consists of static mixing elements inserted into a specially machined nozzle body. There are no moving parts, and each element can be removed for cleaning. Each element is machined on its upper surface in such a way that, when assembled end-to-end, they form a chamber shaped like a tetrahedron.

Four diagonal holes are drilled into each element so that the material entering near the periphery exits at the center on the outlet face. Thanks to this unique concept, a set of 5 elements will generate 1,024 layers in the mixing process at the outlet point (4,096 layers with 6 elements).
This concept offers unmatched improvement over previous generations of mixers incorporating different types of mixing elements (which are more suitable for low-pressure injection applications).

Forced Radial Action Mixing



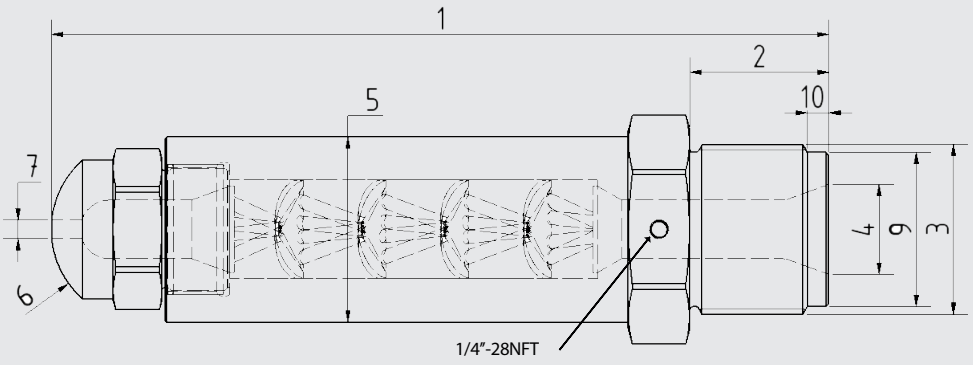
View of a mixing element

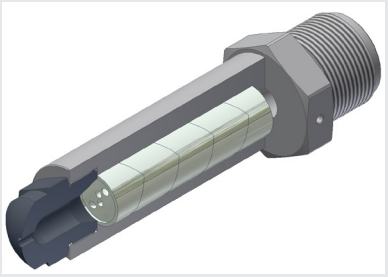
Number of layers generated in a mixing nozzle, depending on the number of elements

Mixing efficiency	1	2	3	4	5	6
Number of layers generated	4	16	64	256	1024	4096

Type	Number of elements	Elements Dia x Length (mm)	High viscosity (HDPE, ABS, filled PP)	Medium viscosity (GPPS, HIPS, PP MFI 1.5)	Low viscosity (PA PP LDPE)	Nozzle tip type
ISOMIXA	5	16 x 66,7	25 cm^3/sec.	40 cm^3/sec.	80 cm^3/sec.	GP, NRT, ABS
ISOMIXB	6	16 x 82,6	25 cm^3/sec.	40 cm^3/sec.	80 cm^3/sec.	GP, NRT, ABS
ISOMIXC	5	21 x 84,89	60 cm^3/sec.	85 cm^3/sec.	190 cm^3/sec.	GP, NRT, ABS
ISOMIXD	6	21 x 103,10	60 cm^3/sec.	85 cm^3/sec.	190 cm^3/sec.	GP, NRT, ABS
ISOMIXE	5	25 x 107,2	110 cm^3/sec.	170 cm^3/sec.	370 cm^3/sec.	KN
ISOMIXF	6	25 x 132,6	110 cm^3/sec.	170 cm^3/sec.	370 cm^3/sec.	KN

Mixing nozzle - ISOMIX
Order form





Machine and Model

Injection rate
in cm^3/s

(1) Total length

(2) Thread Length

(3) Thread Type
(M36x2 or 1"1/4-12UNF,...)

(4) Rear opening

(5) Body diameter (38, 50, ...)

(6) Radius
(12,7mm, 15mm, 19mm, 35 mm...)

(7) Opening (1.5, 2.5, 3, 4, ...)

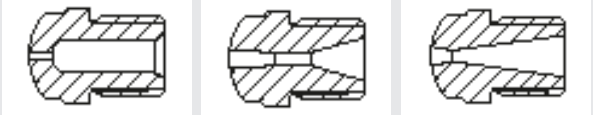
(8) Internal Design
- ☐ Universal (GP)
- ☐ Polyamid (NRT)
- ☐ ABS (ABS)

(9) Ø relief

(10) Relief length

(8) Type

Universal (GP) ☐ Polyamid (NRT) ☐ ABS (ABS)



ABS & NRT : Opening mini : 3mm

Tip length

- ☐ 38 mm (1)
- ☐ 70 mm (2)
- ☐ 95 mm (3)
- ☐ 127 mm (4)

Length 70, 95 & 127mm are not available in ABS version

(6) Radius

- ☐ 35 mm (8)
- ☐ 30 mm (R30)
- ☐ 19 mm (7)
- ☐ 15 mm (6)
- ☐ 12,7 mm (5)
- ☐ 10 mm (R10)
- ☐ 9 mm (9)
- ☐ 120° (4)
- ☐ 90° (3)
- ☐ 70° (1)
- ☐ 60° (2)
- ☐ Other

(7) Opening

- ☐ 1,5 mm (I)
- ☐ 2 mm (H)
- ☐ 2,5 mm (J)
- ☐ 3 mm (K)
- ☐ 4 mm (L)
- ☐ 5 mm (M)
- ☐ 5.5 mm (Q)
- ☐ 6 mm (N)
- ☐ 6.5 mm (R)
- ☐ 7 mm (S)
- ☐ 8 mm (O)
- ☐ 9,5 mm (P)
- ☐ Other

GP	1	6	K

Example: GP16K
Universal type (GP) - Tip lenght 38mm (1) - Radius 15mm (6) - Opening 3 mm (K)

Mixing Nozzle - XPS

The XPS mixing nozzle has been specially designed to solve common mixing issues in injection molding, such as poor color dispersion, streaks, or material inconsistencies. Thanks to its optimized internal geometry, the nozzle ensures a homogeneous melt flow and excellent distribution of additives, masterbatches, and recycled materials. This results in improved part quality, reduced scrap, and higher process reliability – all while maintaining energy efficiency and ease of maintenance.

Features

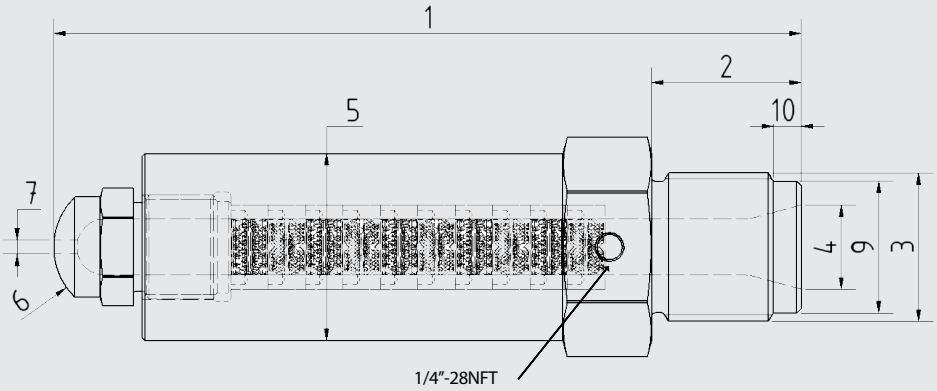
- Rows of interlaced bars inside a tube
- Bars are bonded to each other and to the tube -> solid structure
- Monolithic structure -> cast parts
- Grid edges form a roof shape – ensures smooth flow conditions
- Made from high-strength treated steel (17-4 PH), extremely durable
- Outer diameter and length (D, L) are machined and equipped with indexers

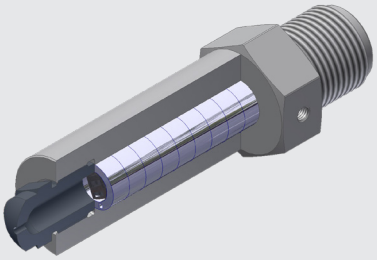
Operating Principle

The flow passes through layers that are reorganized and forced to move in a radial direction.
Adjacent mixing elements are offset by 90°, ensuring uniform distribution across the cross-section

Type	Mixing length (10 elements)	Dimensions – Inner dia x Outer dia	High viscosity	Low viscosity	Screw diameter (mm)	Nozzle type
XPS-I 18/12	79,9 mm	12 x 18 mm	400 cm^3/sec.	600 cm^3/sec.	max. 75	GP, NRT, ABS
XPS-I 28/18	109,9 mm	18 x 28 mm	750 cm^3/sec.	950 cm^3/sec.	max. 90	KN
XPS-I 34/24	139,9 mm	24 x 34 mm	1350 cm^3/sec.	1900 cm^3/sec.	max. 120	Adaptator + KN
XPS-I 42/32	179,9 mm	32 x 42 mm	3900 cm^3/sec.	6100 cm^3/sec.	max. 150	Adaptator + KN

Mixing nozzle - XPS
Order form





Machine and Model

Injection rate
in cm ^{3}/s

(1) Total length

(2) Thread Length

(3) Thread Type
(M36x2 or 1"1/4-12UNF,...)

(4) Rear opening

(5) Body diameter (38, 50, ...)

(6) Radius
(12,7mm, 15mm, 19mm, 35 mm...)

(7) Opening (1.5, 2.5, 3, 4, ...)

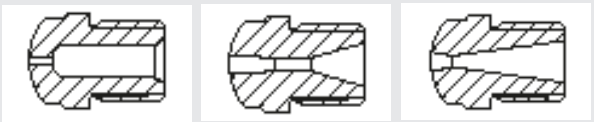
(8) Internal Design
- ☐ Universal (GP)
- ☐ Polyamid (NRT)
- ☐ ABS (ABS)

(9) Ø relief

(10) Relief length

(8) Type

Universal (GP) ☐ Polyamid (NRT) ☐ ABS (ABS)



ABS & NRT : Opening mini : 3mm

Tip length

- ☐ 38 mm (1)
- ☐ 70 mm (2)
- ☐ 95 mm (3)
- ☐ 127 mm (4)

Length 70, 95 & 127mm are not available in ABS version

(6) Radius

- ☐ 35 mm (8)
- ☐ 30 mm (R30)
- ☐ 19 mm (7)
- ☐ 15 mm (6)
- ☐ 12,7 mm (5)
- ☐ 10 mm (R10)
- ☐ 9 mm (9)
- ☐ 120° (4)
- ☐ 90° (3)
- ☐ 70° (1)
- ☐ 60° (2)
- ☐ Other

(7) Opening

- ☐ 1,5 mm (I)
- ☐ 2 mm (H)
- ☐ 2,5 mm (J)
- ☐ 3 mm (K)
- ☐ 4 mm (L)
- ☐ 5 mm (M)
- ☐ 5.5 mm (Q)
- ☐ 6 mm (N)
- ☐ 6.5 mm (R)
- ☐ 7 mm (S)
- ☐ 8 mm (O)
- ☐ 9,5 mm (P)
- ☐ Other

GP	1	6	K

Example: GP16K
Universal type (GP) - Tip lenght 38mm (1) - Radius 15mm (6) - Opening 3 mm (K)


NOZZLE BY BMS®

Filtration nozzles

5

Specifically designed for processors using regrind material that may be contaminated, or for production molds such as hot runner systems, where high-performance filtration is essential...
Quickly eliminate any unmelted material or particles (metallic or otherwise) that could damage your hot runner blocks.

Filtration Nozzle - TPF

p. 25

Forced-flow filters are designed with a blind hole into which the material is directly pushed, followed by a second hole positioned in the opposite direction, allowing the material to flow into the mold.

Filtration Nozzle - BSEF

p. 27

High-strength treated elements.
Specifically designed for high-performance filtration.

Filtration Tips

p. 29

Hot runner molds and other production molds.
Specifically designed for molders using potentially contaminated regrind material or production molds such as hot runners, where high-performance filtration is essential.

Filtration nozzle - TPF

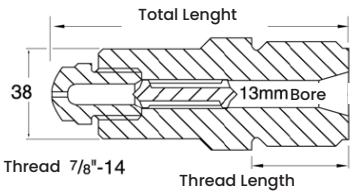
- Easy to remove and reposition for cleaning
- Provides excellent filtration for particles larger than 0.38 mm
- Large filter surface allows for extended molding runs before cleaning is required
- Filters available in high-strength versions for filled materials

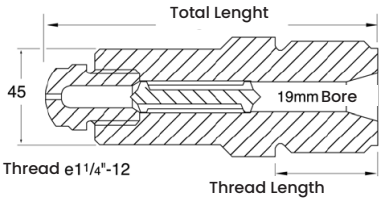
High-resistance filters for abrasive or filled materials

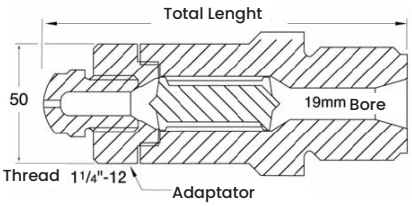
TPF1

TPF2

TPF3







TPF1
For low injection volumes
Low-viscosity, unfilled materials
Injectable volumes: less than 455 g
Tip types: GP, NRT, ABS – 7/8"-14 thread

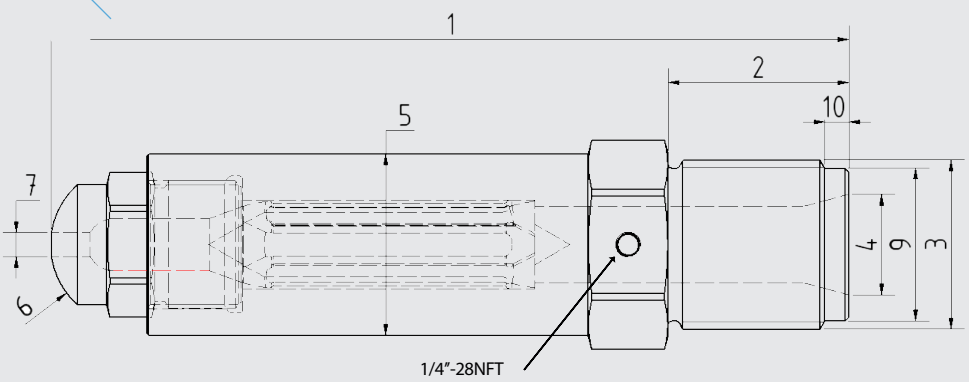
TPF2
For medium injection volumes
Low to medium-viscosity, unfilled materials
Injectable volumes: less than 900 g
Tip type: KN – 1 1/4"-12 thread

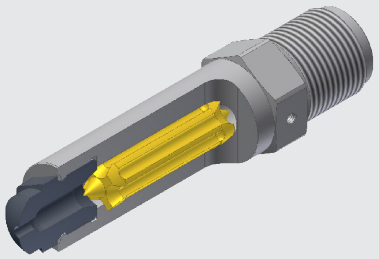
TPF3
For high injection volumes
Low to medium-viscosity, unfilled materials
Injectable volumes: over 900 g
Tip type: KN with adapter – 1 1/4"-12 thread

Standard Filter	High-Resistance Coating Filter	VAR Filter**	Element Length	Volume injection	Nozzle Tip
TPF1	TPF1T	TPF1V	38 mm	<450g	GP/NRT/ABS
TPF2	TPF2T	TPF2V	90 mm	<900g	KN
TPF3	TPF3T	TPF3V	150 mm	>900g	KN + adaptator

* Compensation ring when the filter is removed
** V.A.R. heat treatment for highly filled materials

Filtration nozzle - Type TPF
Order form





Machine and Model

Injection rate
in cm^3/s

(1) Total length

(2) Thread Length

(3) Thread Type
(M36x2 or 1"1/4-12UNF,...)

(4) Rear opening

(5) Body diameter (38, 50, ..)

(6) Radius
(12,7mm, 15mm, 19mm, 35 mm...)

(7) Opening (1.5, 2.5, 3, 4, ...)

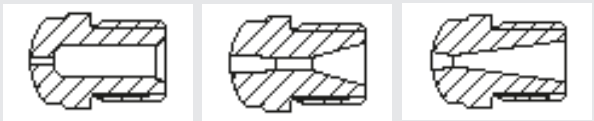
(8) Internal Design
- ☐ Universal (GP)
- ☐ Polyamid (NRT)
- ☐ ABS (ABS)

(9) Ø relief

(10) Relief length

(8) Type

☐ Universal (GP) ☐ Polyamid (NRT) ☐ ABS (ABS)



ABS & NRT : Opening mini : 3mm

Tip length

- ☐ 38 mm (1)
- ☐ 70 mm (2)
- ☐ 95 mm (3)
- ☐ 127 mm (4)

Length 70, 95 & 127mm are not available in ABS version

(6) Radius

- ☐ 35 mm (8)
- ☐ 30 mm (R30)
- ☐ 19 mm (7)
- ☐ 15 mm (6)
- ☐ 12,7 mm (5)
- ☐ 10 mm (R10)
- ☐ 9 mm (9)
- ☐ 120° (4)
- ☐ 90° (3)
- ☐ 70° (1)
- ☐ 60° (2)
- ☐ Other

(7) Opening

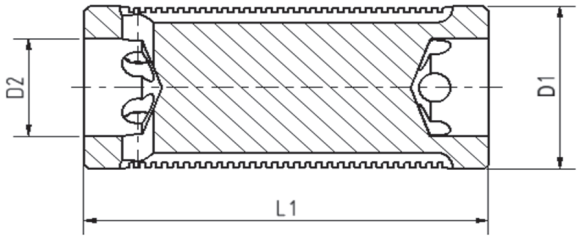
- ☐ 1,5 mm (I)
- ☐ 2 mm (H)
- ☐ 2,5 mm (J)
- ☐ 3 mm (K)
- ☐ 4 mm (L)
- ☐ 5 mm (M)
- ☐ 5.5 mm (Q)
- ☐ 6 mm (N)
- ☐ 6.5 mm (R)
- ☐ 7 mm (S)
- ☐ 8 mm (O)
- ☐ 9,5 mm (P)
- ☐ Other

GP	1	6	K

Filtration nozzle - BSEF

The BSEF filtration nozzle from BMS are designed to optimize the injection molding process by ensuring a homogeneous melt flow free from impurities. With their robust construction and high-precision filter integration, they help reduce surface defects, extend mold lifetime, and minimize machine downtime caused by contamination. Available in various configurations, they provide a reliable solution for plastics processors looking to enhance both productivity and part quality.

High-resistance filters for abrasive or filled materials

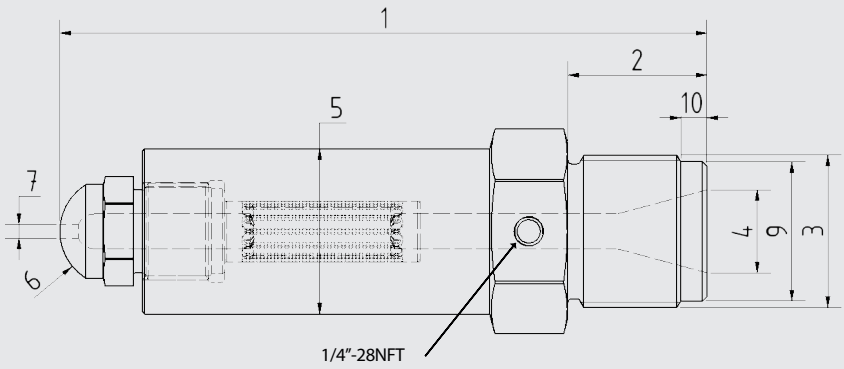


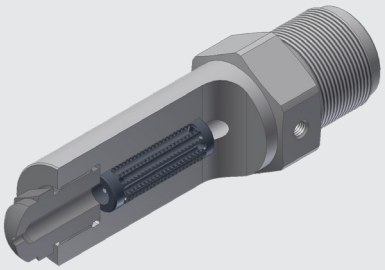
Key Advantages

- Easy handling
- Low pressure loss
- Large flow area
- High-stength protection
- Flow passage from 0.6 to 1.2 mm
- CVD wear protected

Réf.	D1 (mm)	D2 (mm)	L1 (mm)	Passage (mm)	Surface totale de passage (mm^2)	Débit d'injection (cm^3/sec)	Perte de pression	Nozzle Tip
BSEF1	14	8	45	0,6	110	< 500	8 %	GP
BSEF108	14	8	45	0,8	160	< 500	6 %	GP
BSEF206	20	12	45	0,6	110	< 1000	8 %	GP
BSEF208	20	12	45	0,8	160	< 1000	6 %	GP
BSEF212	20	12	45	1,2	250	< 1000	4 %	GP
BSEF306	25	17	50	0,6	140	> 1000	8 %	KN
BSEF308	25	17	50	0,8	190	> 1000	6 %	KN
BSEF312	25	17	50	1,2	280	> 1000	4 %	KN

Filtration nozzle - Type BSEF
Order form





Machine and Model

Injection rate
in cm^3/s

(1) Total length

(2) Thread Length

(3) Thread Type
(M36x2 or 1"1/4-12UNF,...)

(4) Rear opening

(5) Body diameter (38, 50, ...)

(6) Radius
(12,7mm, 15mm, 19mm, 35 mm...)

(7) Opening (1.5, 2.5, 3, 4, ...)

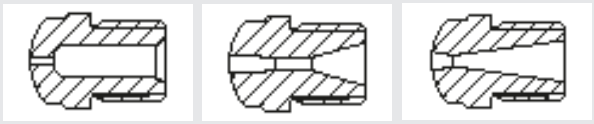
(8) Internal Design
- ☐ Universal (GP)
- ☐ Polyamid (NRT)
- ☐ ABS (ABS)

(9) Ø relief

(10) Relief length

(8) Type

Universal (GP) ☐ Polyamid (NRT) ☐ ABS (ABS)



ABS & NRT : Opening mini : 3mm

Tip length

- ☐ 38 mm (1)
- ☐ 70 mm (2)
- ☐ 95 mm (3)
- ☐ 127 mm (4)

Length 70, 95 & 127mm are not available in ABS version

(6) Radius

- ☐ 35 mm (8)
- ☐ 30 mm (R30)
- ☐ 19 mm (7)
- ☐ 15 mm (6)
- ☐ 12,7 mm (5)
- ☐ 10 mm (R10)
- ☐ 9 mm (9)
- ☐ 120° (4)
- ☐ 90° (3)
- ☐ 70° (1)
- ☐ 60° (2)
- ☐ Other

(7) Opening

- ☐ 1,5 mm (I)
- ☐ 2 mm (H)
- ☐ 2,5 mm (J)
- ☐ 3 mm (K)
- ☐ 4 mm (L)
- ☐ 5 mm (M)
- ☐ 5.5 mm (Q)
- ☐ 6 mm (N)
- ☐ 6.5 mm (R)
- ☐ 7 mm (S)
- ☐ 8 mm (O)
- ☐ 9,5 mm (P)
- ☐ Other

GP	1	6	K

Example: GP16K
Universal type (GP) - Tip lenght 38mm (1) - Radius 15mm (6) - Opening 3 mm (K)

Standard Filtration tips

An efficient and cost-effective system that aids in color dispersion with minimal pressure loss.
The disk is placed in the front or rear part of the nozzle, either directly behind the tip or just behind the nozzle body. It removes unmelted plastic particles and contaminants, and contributes to the overall dispersion of the material.

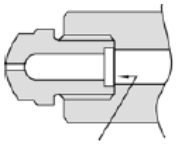
The NF disk is positioned in the rear section of the nozzle.

NF001

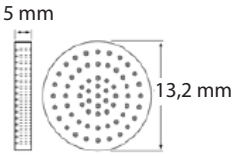
NF002

Ref.	Number of Holes	Diameter per Hole	Total Hole Area	Equivalent Orifice	Compatible Tips
NF001	49	0,6	13,9 mm^2	4,2 mm	RGP, RNRT, RABS
NF002	37	0,8	18,6 mm^2	4,9 mm	RGP, RNRT, RABS

Mounting type

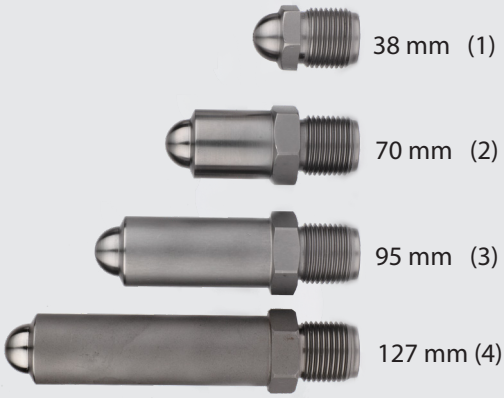


NF



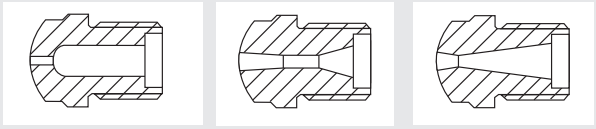
Length (mm)	Ref. type R	Profile	Thread	MBI Heater band	Nozzle wrench
38	RGP1	Universal	7/8-14	-	22
38	RNRT1	Nylon	7/8-14	-	22
38	RABS1	ABS	7/8-14	-	22
70	RGP2	Universal	7/8-14	MBI252010	27
70	RNRT2	Nylon	7/8-14	MBI252010	27
95	RGP3	Universal	7/8-14	MBI254010	27
95	RNRT3	Nylon	7/8-14	MBI254010	27
127	RGP4	Universal	7/8-14	MBI255010	27
127	RNRT4	Nylon	7/8-14	MBI255010	27

Standard Filtration tips
Order form



Type

- ☐ Universal (GP)
- ☐ Polyamid (NRT)
- ☐ ABS (ABS)



ABS & NRT : Opening mini : 3mm

Tip length

- ☐ 38 mm (1)
- ☐ 70 mm (2)
- ☐ 95 mm (3)
- ☐ 127 mm (4)

Length 70, 95 & 127mm are not available in ABS version

Radius

- ☐ 35 mm (8)
- ☐ 30 mm (R30)
- ☐ 19 mm (7)
- ☐ 15 mm (6)
- ☐ 12,7 mm (5)
- ☐ 10 mm (R10)
- ☐ 9 mm (9)
- ☐ 120° (4)
- ☐ 90° (3)
- ☐ 70° (1)
- ☐ 60° (2)
- ☐ Other

Opening

- ☐ 1,5 mm (I)
- ☐ 2 mm (H)
- ☐ 2,5 mm (J)
- ☐ 3 mm (K)
- ☐ 4 mm (L)
- ☐ 5 mm (M)
- ☐ 5.5 mm (Q)
- ☐ 6 mm (N)
- ☐ 6.5 mm (R)
- ☐ 7 mm (S)
- ☐ 8 mm (O)
- ☐ 9,5 mm (P)
- ☐ Other

R*	GP	1	6	K

Example: RGP16K
**with receipt for filter (R) - Universal type (GP) - Tip lenght 38mm (1) - Radius 15mm (6) - Opening 3 mm (K)*

NOZZLE BY BMS®

Shut-Off Nozzles

6

Shut-off nozzle are generally used when processing low-viscosity polymers, or when it is necessary to retract the injection unit during the mould-opening phase.
Precise and effective shut-off is the key feature of any type of shut-off nozzle.

Benefits

Optimized heat and flow transfer

High throughput with minimal pressure loss and no material stress

Compact and modular design cycle times

Among the most compact nozzle on the market, with easy assembly/disassembly

User-friendly maintenance

Quick and easy cleaning, minimal production issues

Flexible configuration

One standard nozzle, adaptable with modular systems for every customer — most parts available from stock

How to Choose Your Shut-Off Nozzle?

2 Possible Types

SEP Type With Cylinder

- SEP10 500g/sec
- SEP20 1500g/sec
- SEP30 3500g/sec

Type SES À ressort

- SES10 500g/sec
- SES20 1500g/sec
- SES30 3500g/sec

Shut-Off Nozzle Type SES

The spring-loaded shut-off nozzle is used in processes involving low-viscosity materials such as PA, PP, PPS, PE, or POM.
This nozzle is generally used in applications like packaging, and in sectors such as automotive, medical, and even electronics.

SES Model – Versatile and Reliable

The SES series offers precision and efficiency in every operation. Available in Operation and Modular System versions, it adapts to your production needs, ensuring optimal performance and flexibility.

SES10	SES20	SES30
500 cm³/sec with PS **Screw Diameter <30mm** **Max. Orifice: 4 mm**	**1500 cm³/sec with PS** **Screw Diameter: 20–60 mm** **Max. Orifice: 7 mm**	**3500 cm³/sec with PS** **Screw Diameter: 50–120 mm** **Max. Orifice: 11 mm**

Operation

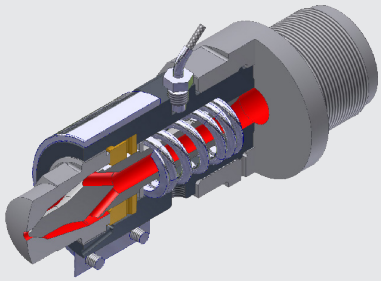
The shut-off needle moves axially inside the nozzle and is held in the closed position by the force of the spring.
The injection pressure (180 bars) pushes the assembly back. Once the injection is completed, the spring pushes the needle forward, closing the orifice. This unit is equipped with a high-temperature spring (500°C).

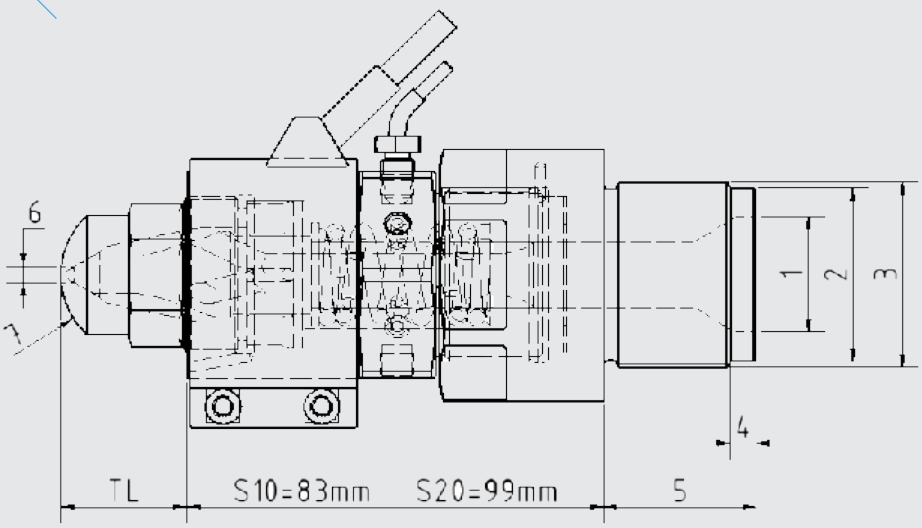
Modular System

A specific adapter is made according to the needs of each user.
However, the nozzle remains the same and is available in stock:

- Quick nozzle change
- Reduced delivery times
- Cost-effective solution

Shut-off nozzle - Type SES
Order form





Machine and Model

(1) Rear opening

(2) Relief diameter

(3) Thread adapter

(4) Relief length

(5) Thread length

(6) Opening

(7) Radius

Standard dimensions in mm

Nozzle Size

- S10 (for 500 cm³/sec with PS, opening max 4mm)
- S20(for 1500 cm³/sec with PS, opening max 7mm)
- S30 (for 3700 cm³/sec with PS, opening max 11mm)

K= Tip length

S10	TL= 20 mm (standard)	TL= 55 mm	
S20	TL= 30 mm (standard)	TL= 80 mm	TL= 120 mm
S30	TL= 55 mm (standard)	TL= 120 mm	TL= 200 mm

Pneumatic cylinder

Hydraulic cylinder

Option: Heater band

S10 : Ø40 x 30 mm 200W 230V Lead 1m Ref: MBI353010

S20 : Ø50 x 40 mm 300W 230V Lead 1m Ref: MBI453810

S30 : Ø75 x 60 mm 715W 230V Lead 1m Ref: MBI706010

Option: Thermocouple type J cable length 1.5 m
M8x100 mm Ref: KNTC1

Shut-Off Nozzle Type SEP

SEP10	SEP20	SEP30
500 cm³/sec with PS Max. Orifice: 4 mm	1500 cm³/sec with PS Max. Orifice: 7 mm	3500 cm³/sec with PS Max. Orifice: 11 mm

Operation

Unlike spring-loaded nozzle, P-type nozzle can be controlled at any time without any pressure loss. The opening and closing process is managed by a cylinder that can be actuated hydraulically or pneumatically. The cam position can be set at any point. This type of nozzle is equipped with a safety system allowing decompression above 600 bars.

Highly compact, these nozzle are adaptable to all types of presses. The cam can also be actuated by a coupling present on the machine or a cable system. The cylinder is controlled by the press controller.

Types of Cylinders

Compact, integrated into the nozzle, separate.
In the «integrated» version, the cylinder is located below the nozzle. This compact design allows the mounting of this type of unit on any type of injection press. The power supply can be either hydraulic or pneumatic. The operating pressure is 6 to 10 bars for pneumatic systems and 50 to 70 bars for hydraulic systems.

Cylinder Mounted on Press

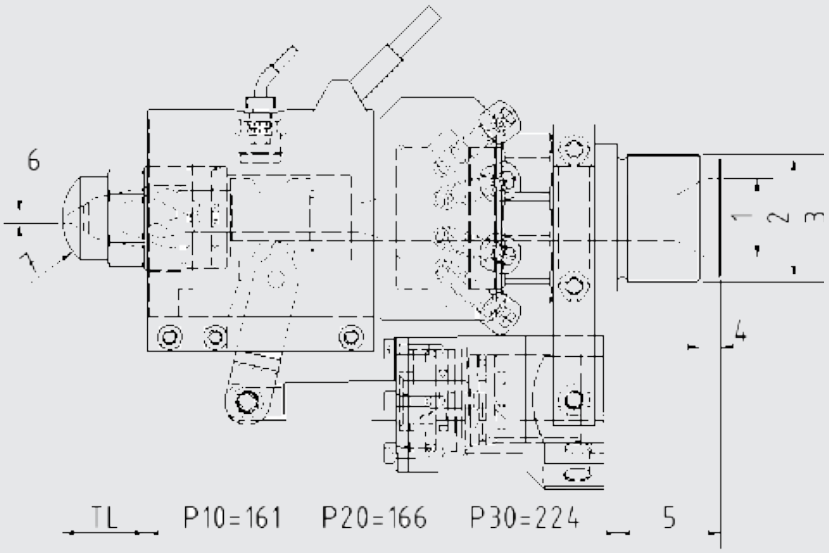
This type of nozzle can also use the machine's cylinder.
Contact our sales department.

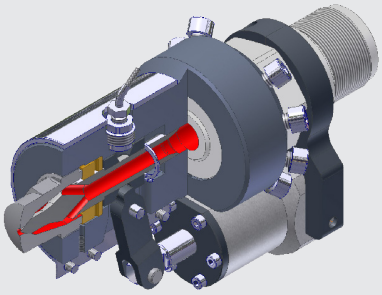
Modular System

A specific adapter is made according to each user's needs. However, the nozzle remains the same and is available in stock:

- Quick nozzle change
- Reduced delivery times
- Cost-effective solution

Shut-off nozzle - Type SEP
Order form





Machine and Model

(1) Rear opening

(2) Relief diameter

(3) Thread adapter

(4) Relief length

(5) Thread length

(6) Opening

(7) Radius

Standard dimensions in mm

Nozzle Size

- P10 (for 500 cm³/sec with PS, opening max 4mm)
- P20(for 1500 cm³/sec with PS, opening max 7mm)
- P30 (for 3700 cm³/sec with PS, opening max 11mm)

K= Tip length

P10	TL= 20 mm (standard)	TL= 55 mm	
P20	TL= 30 mm (standard)	TL= 80 mm	TL= 120 mm
P30	TL= 55 mm (standard)	TL= 120 mm	TL= 200 mm

- Pneumatic cylinder
- Hydraulic cylinder

Option: Heater band

SEP10 : Ø60 x 75 mm 200W 230V Lead 1m Ref: 100 0114 5
SEP20 : Ø20 x 70 mm 300W 230V Lead 1m Ref: 100 0044 5
SEP30 : Ø90 x 110 mm 715W 230V Lead 1m Ref: 100 0117 5

Option: Thermocouple type J cable length 1.5 m
M8x100 mm Ref: KNTC1

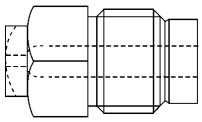
NOZZLE BY BMS®

OEM Type Nozzles

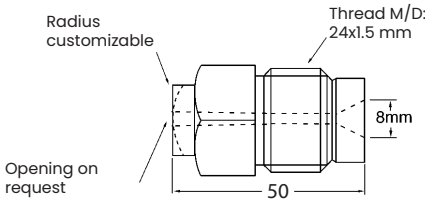
Solid nozzle made from high-quality treated steel, fully compatible with original tips supplied by machine manufacturers.

For each order, please specify the radius and orifice of your nozzle according to the OEM (original equipment manufacturer) specifications.

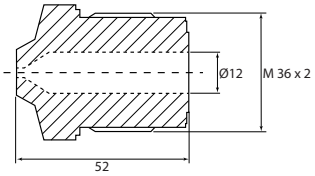
Type Arburg



ASS2
General Purpose



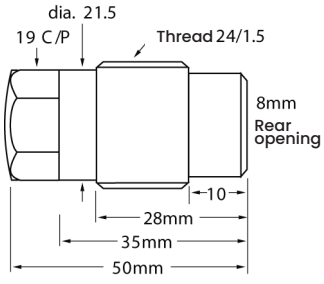
ASSN2
Nylon Type



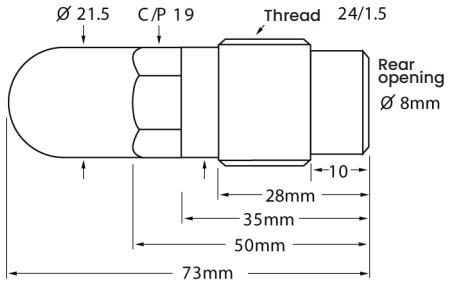
NSAR1
General Purpose

Adaptable on press types	General Purpose Tip Ref.	Nylon Tip Ref.	Length (mm)	Threading	Rear Opening (mm)
ARBURG	ASS2*	ASSN2*	50	M24 x 1,5 mm	8
ARBURG	ASS3*	ASSN3*	75	M24 x 1,5 mm	8
ARBURG	ASS4*	ASSN4*	95	M24 x 1,5 mm	8
ARBURG	NSAR1*	-	52	M36 x 2 mm	12
ARBURG	NSAR3*	-	74	M36 x 2 mm	12

Type Demag



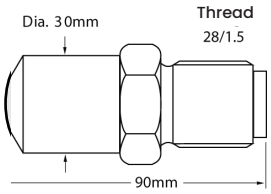
DNDS50



DNDS73

Adaptable on press types	General Purpose Tip Ref.	Nylon Tip Ref.	Length (mm)	Threading	Rear Opening (mm)
DEMAG	DNDS50*	-	50	M24 x 1,5 mm	8
DEMAG	DNDS73*	-	73	M24 x 1,5 mm	8
DEMAG	DNDS100*	-	100	M24 x 1,5 mm	8

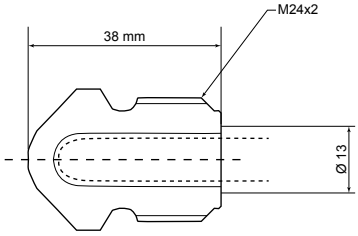
Type Engel



EU90

Adaptable on press types	General Purpose Tip Ref	Nylon Tip Ref.	Length (mm)	Threading	Rear Opening (mm)
ENGEL	EU90	-	90	M28 x 1,5 mm	8 or 12
ENGEL	EU125	-	125	M28 x 1,5 mm	8 or 12

Type Fanuc



Adaptable on press types	General Purpose Tip Ref	Nylon Tip Ref.	Length (mm)	Threading	Rear Opening (mm)
FANUC	FU1*	-	38,4	M24 x 2 mm	13
FANUC	FU2*	-	70	M24 x 2 mm	13

OEM Type Nozzles
Order form

Arburg style

Demag style

Engel style

Fanuc style

Order Your Machine-Compatible Nozzle Tip

Create a reference using 3 criterias :
Type, radius and opening.

Heat-treated 48–52 HRC for durability and reliable performance.

(8) Type

- ☐ ARBURG, General purpose
  ASS2, ASS3, ASS4, NSAR1, NSAR3
- ☐ ARBURG, Nylon cone
  ASSN2, ASSN3, ASSN4
- ☐ DEMAG
  DNDS50, DNDS73, DNDS100
- ☐ ENGEL
  EU90, EU125
- ☐ FANUC
  FU1, FU2

(6) Radius

- ☐ 35 mm (8)
- ☐ 30 mm (R30)
- ☐ 19 mm (7)
- ☐ 15 mm (6)
- ☐ 12,7 mm (5)
- ☐ 10 mm (R10)
- ☐ 9 mm (9)
- ☐ 120° (4)
- ☐ 90° (3)
- ☐ 70° (1)
- ☐ 60° (2)
- ☐ Other

(7) Opening

- ☐ 1,5 mm (I)
- ☐ 2 mm (H)
- ☐ 2,5 mm (J)
- ☐ 3 mm (K)
- ☐ 4 mm (L)
- ☐ 5 mm (M)
- ☐ 5.5 mm (Q)
- ☐ 6 mm (N)
- ☐ 6.5 mm (R)
- ☐ 7 mm (S)
- ☐ 8 mm (O)
- ☐ 9,5 mm (P)
- ☐ Other

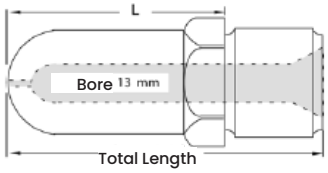
ASS2	3	K

Example: ASS23K
Nozzle type ARBURG (ASS2) - Radius 15mm (6) - Opening 3 mm (K)

Solid Nozzle

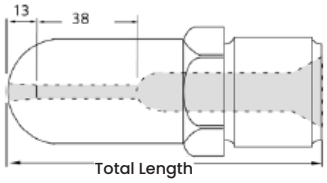
Chrome-vanadium steel treated for extended service life.
Also available: sintered steels with ultra-high resistance (powder metallurgy technology), and copper-nickel alloys with high thermal conductivity (now available in a "hardened" version for longer lifespan).

General Usage



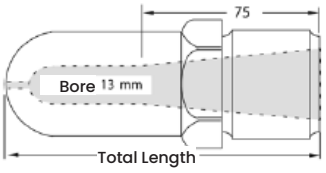
- Standard free-pass design.
- Minimal resistance to flow, minimal back pressure.
- Standard opening of Ø 12.7mm if no other specifications were given to us.

Reverse cone Nylon Type



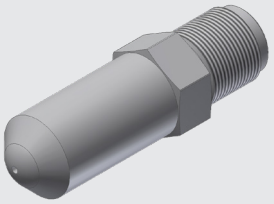
- Use: polyamides, acrylics and other expensive and heat-sensitive materials.
- The material flows over a length of 38mm through a channel with a diameter of 3mm, and then into an inverted cone with a length of 25mm. The sprue breaks off in the nose, reducing the risk of burr.

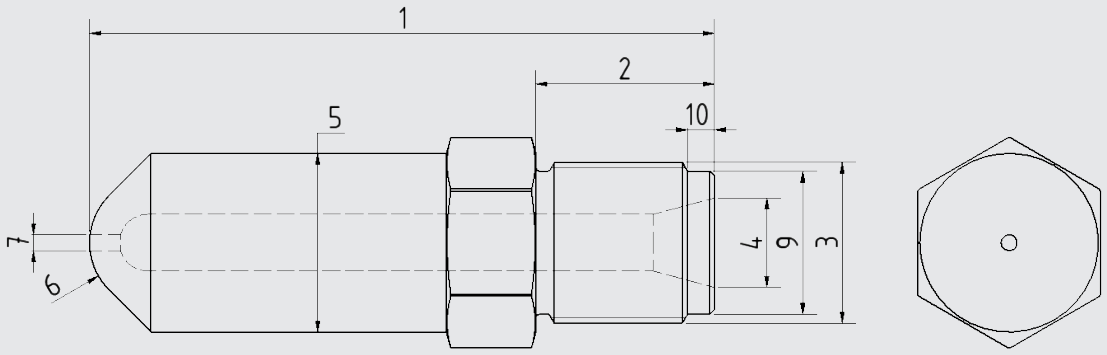
With Full Cone – ABS Type



- For use with ABS, PVC and all other viscous materials.
- Reduces heat development and material build-up.
- We recommend using large openings to reduce the flow resistance. Cone 75mm long from rear opening, internal channel 12.7mm long.

Solid nozzle
Order form





Machine and Model

Injection rate
in cm ^{3}/s

(1) Length

(2) Thread Length

(3) Thread Type
(M36x2 or 1"1/4-12UNF,...)

(4) Rear opening

(5) Body diameter (25, 38, 50 mm)

(6) Radius
(12,7mm, 15mm, 19mm, 35 mm...)

(7) Opening (1.5, 2.5, 3, 4, ...)

(8) Internal Design
- ☐ General Purpose
- ☐ Nylon reverse taper
- ☐ Full taper - ABS

(9) Ø relief

(10) Relief length

All nozzle are polished with great care. These order forms are available for all our solid nozzle. We also do any type of nozzle with a plan.

Adaptators

Small adaptators convert threads under 30 mm to standard 7/8»-14 threads. These adaptators allow the use of standard GP, NRT or ABS tips with 7/8»-14 threads, helping reduce costs and machine downtime while waiting for custom tips to be made.

Tips are made of treated steel and available in various radii, orifice shapes, and lengths from 19 to 130 mm (with extension). Extensions are ideal when space constraints are present.

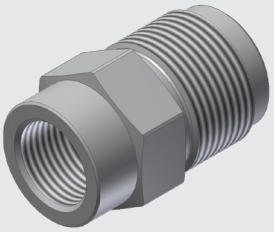
A permanent stock ensures immediate shipping.

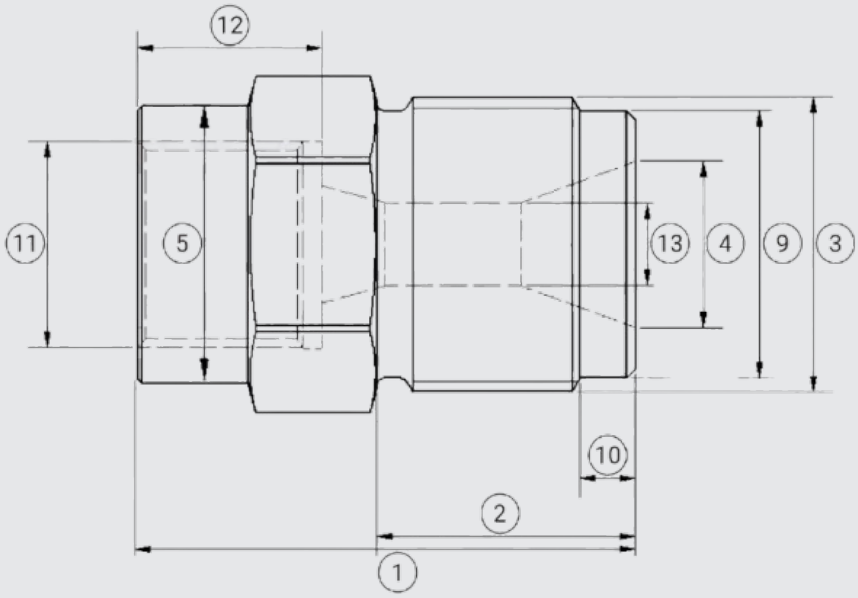
Note: OEM Type Nozzles with 24/1.5 mm thread and 8 mm rear opening are available in multiple lengths.

Custom Adapters
Provide flexibility and reliability for your applications. Available in any diameter and length, adapters can be tailored to your exact requirements, ensuring perfect compatibility and performance.

Easily standardize BMS nozzle on your existing injection molding machines

Adaptators
Order form





Machine and Model

Injection rate
in cm^3/s

(1) Length

(2) Thread Length

(3) Thread Type
(M36x2 or 1"1/4-12UNF,...)

(4) Rear opening

(5) Nozzle Body
(38, 50 mm,...)

(9) Ø relief

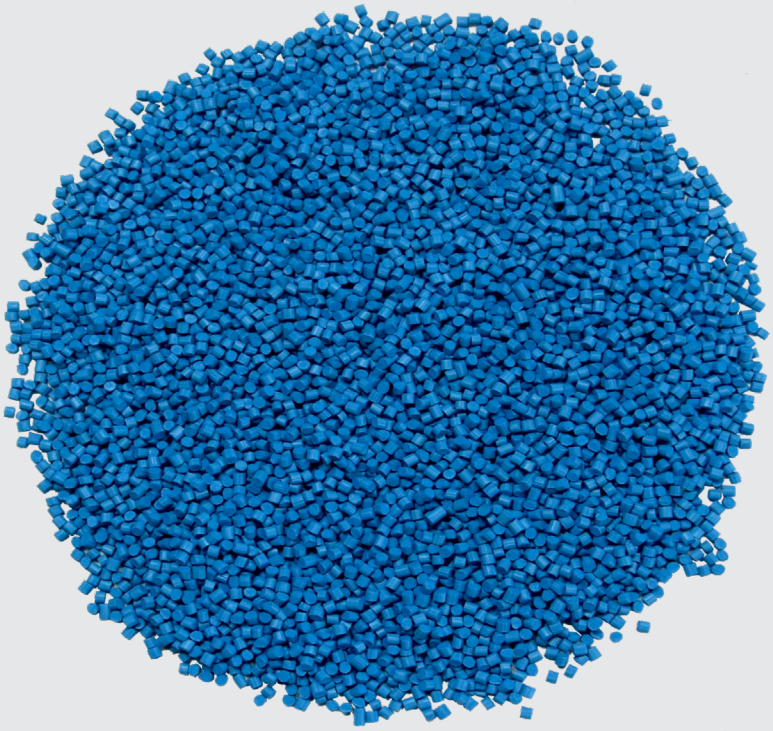
(10) Relief length

(11) Internal thread

(12) Internal thread depth

(13) Bore diameter (8 - 10 - 12 - 12.7)

Material and running conditions
Data sheet



For any costing of your mixing nozzles, filling nozzles, filtering nozzles...
All information relative to your working environment is essential for a good sizing

Machine and Model	

Material information		Operational conditions	
Polymer Name (attach materiel sheet)		Injectable volume (g)	
Measured at (°C)		Injection time (screw movement)	
MFI (melt Flow Index)		Injection temperature (°C)	
Producer		Injection pressure (bars)	
Rank			

Name		Company	
Email		Tel.	

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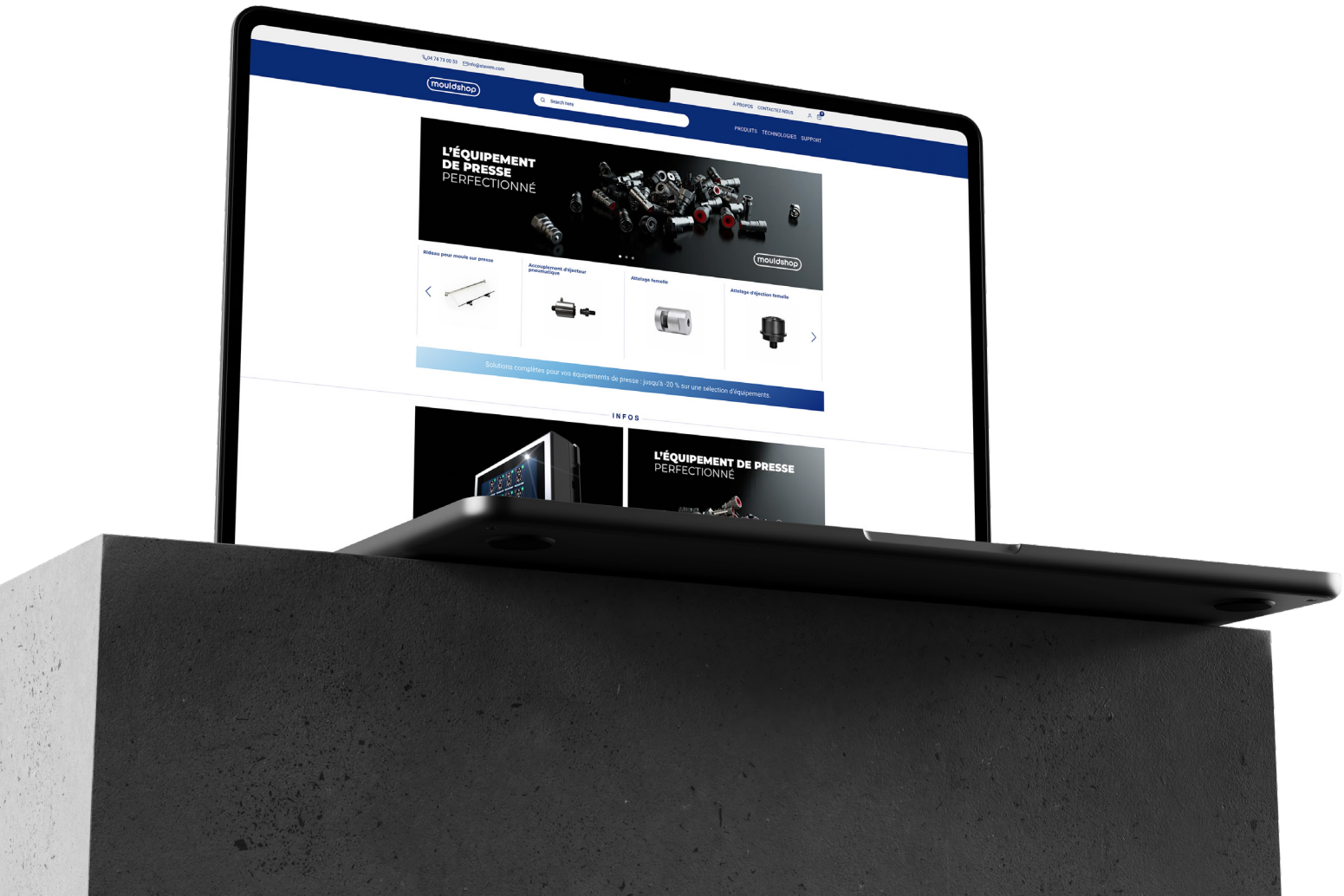
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