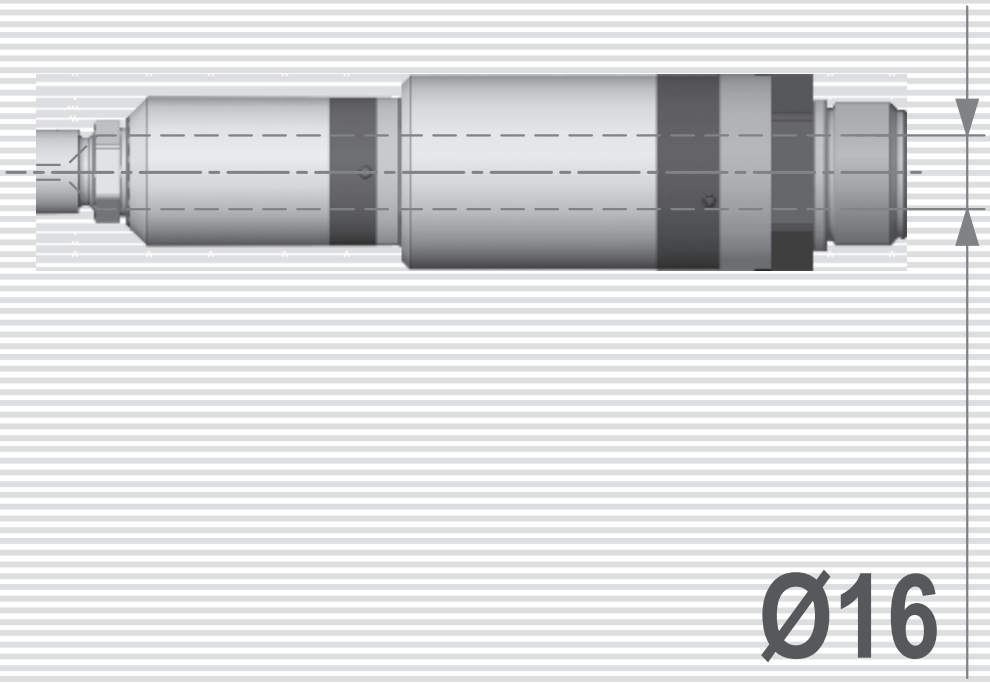
Series 16 E02

Manifold Nozzles, Screw Fit



C Company
P Products
T Technology
A Application

Synventive
molding solutions

Synventive molding solutions

Series 16 E02
Manifold nozzles, screw fit, open / valve gate

Product type

Hot runner nozzles in the **16 E02** range; this series belongs to nozzle class[1] **16 E**.
➔Nozzle size **16**: Flow bore-Ø 16 mm [2]
➔Nozzle style **E**: Manifold nozzle, screw fit
➔Version **02**: staged nozzle with slim front area

With the nozzle tips in the form of screw-in parts, different nozzle types can be implemented (type = shape and gating of nozzle tip), see table at right.

Available gating types
➔open (**N**)
➔open with torpedo (**T**)
➔valve gate (**V**)

Major dimensions (mm)

J	Flow bore Ø	Ø16 [2]
L	Nozzle length	196...647 [3)4)]
D	Ø of cut out, front	Ø40
Dt	Tip Ø	see right
H	Hot runner gate Ø	see right [3)]
L1	Length of cut out, middle	0 / L-(107...118) [3)5)]
D1	Ø of cut out, middle	Ø50 [5)]
L2	Length of cut out, back	0 / L-(418...429)
D2	Ø of cut out, back	Ø60
B	Distance to manifold	20

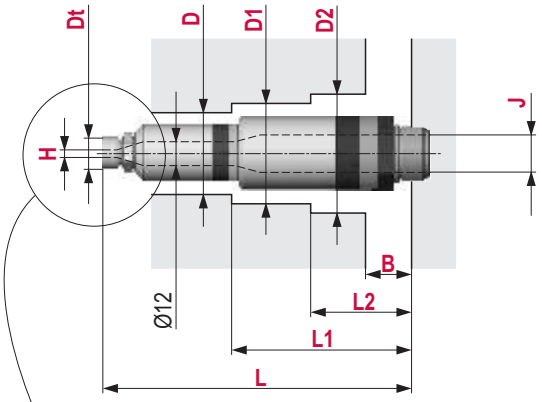
Heating

➔externally heated, 230 V AC
➔2...3 zones, 515...1445 W
➔Fe/CuNi thermocouple, DIN 43710

Application

For all usual thermoplastics
Max. shot weight per nozzle (g)
➔2000 (open, low viscosity)
➔400 (valve gate, low viscosity)

Illustrations simplified, schematically drawn and not to scale.



Available nozzle types for this series

Shape of nozzle tip	N (open)	T (open with torpedo)	V (valve gate)
Y		YT 3 H: 2.1...3.6 Dt: Ø 16	YV 4 H: 4.0 Dt: Ø 16
U		UT 5 H: 2.1...3.6 Dt: Ø 16	
F			
P		PT 6 H: 2.1...3.6 Dt: Ø 16	
K	KN 7 H: 2.2...4.0 Dt: Ø 20		
L		LT 8 H: 2.1...3.6 Dt: Ø 16	LV 9 H: 4.0 Dt: Ø 16
S		ST 10 H: 2.1...3.6 Dt: Ø 16	SV 11 H: 4.0 Dt: Ø 16
V			VV 12 H: 4.0 Dt: Ø 16
W		WT 13 H: 2.1...3.6 Dt: Ø 16	WV 14... H: 4.0 Dt: Ø 20
X			

8 page no. of related data sheets

1) Enhanced classification for improved ease of selection. Part of the nozzle type No. for later nozzle series.
2) Standard value resp. average diameter of nozzle range, can be different depending on nozzle series and application.
3) Raster dimensions. Intermediate values can be found from the prescribed dimensional raster.
4) Minimum and maximum value of nozzle length depend on the selected tip shape.
5) depending on nozzle length

For design and application information, see the Synventive Hot Runner Guide.

Illustrations simplified, schematically drawn and not to scale.

1. Cut out for the nozzle

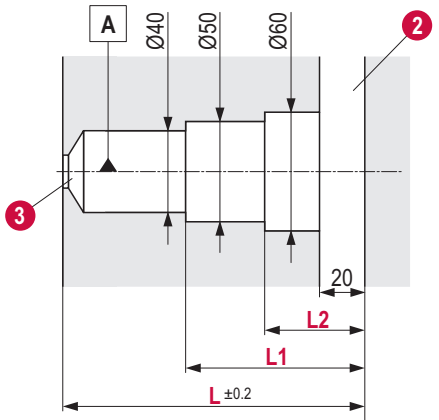
L Nozzle length
L1 Length of cut out, middle
L2 Length of cut out, back

General tolerances: DIN ISO 2768-mK

Surfaces: 3.2 (1.6 0.8)

Values of the dimensions L, L1 and L2 can be found in the data sheet for the selected nozzle type.

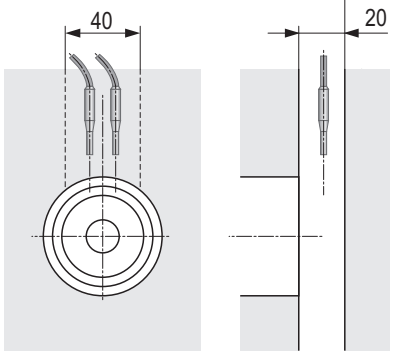
1



2. Cut out for connections

→electrical power
→thermocouple

2



3. Groove for locking pin

The locking pin secures the nozzle against rotation.

4. Cut out for the nozzle tip

a) Through bore nozzle tip (Y...V)
b) Blind bore nozzle tip (W, X)

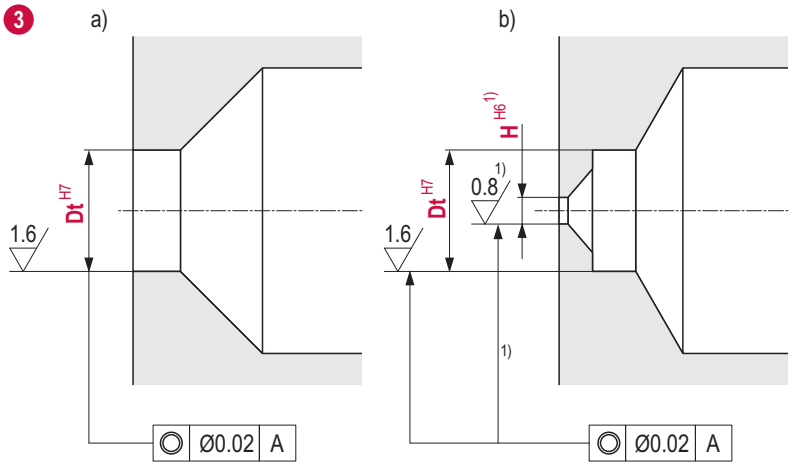
Dt Tip Ø
H Hot runner gate Ø

Depending on the selected nozzle type, different cut outs are required for the nozzle tip.

The dimensions of the cut out for the nozzle tip used can be found in the nozzle data sheet.

1) These data apply for valve gate nozzles.

3



For design and application information, see the Synventive Hot Runner Guide.

Synventive molding solutions

16 E02 Y01T
Manifold nozzle, screw fit, open with torpedo

C P T A

Illustrations simplified, schematically drawn and not to scale.

You can configure your nozzle here

1. Complete the nozzle description [1]

16 E02 Y01T

Series & Type ↑ Length code ↑

2. Selection of variables

L=↑* **H=↑**

*can be chosen within range shown in table below

Example and explanations

Series ↓ Position in nozzle length chart [2] ↓

16 E02 Y01T **196**

Series & Type ↑ Type [1] Length code ↑

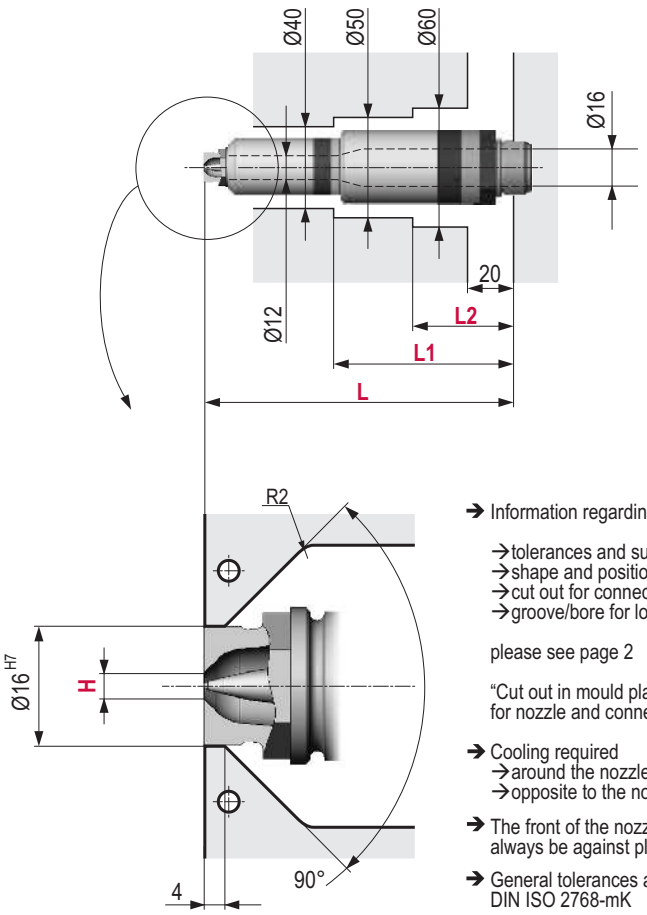
- **Y** Nozzle tip shape Y
- **01** Version 01: for materials with narrow to medium process window
- **T** Gating type T: open with torpedo

212 **3.6**

L=↑ **H=↑**

Variables for precise nozzle specification from the drawings and tables shown here

H (mm)					
2.1	2.4	2.7	3.0	3.3	3.6



➔ Information regarding

→tolerances and surfaces
→shape and position tolerances
→cut out for connections
→groove/bore for locking pin

please see page 2

"Cut out in mould plate for nozzle and connections"

➔ Cooling required
→around the nozzle tip
→opposite to the nozzle tip

➔ The front of the nozzle tip must always be against plastic.

➔ General tolerances according to DIN ISO 2768-mK

Length code	L (mm)	L1 (mm)	L2 (mm)	Heater zones power [3] (Watt)					
				1	2	3	4	5	1...5
196	196...235.9	L-107	-	315	200	-	-	-	515
236	236...275.9	L-107	-	315	315	-	-	-	630
276	276...315.9	L-107	-	315	400	-	-	-	715
316	316...355.9	L-107	-	315	400	-	-	-	715
356	356...395.9	L-107	-	315	500	-	-	-	815
396	396...435.9	L-107	0 / L-418	315	630	-	-	-	945
436	436...475.9	L-107	L-418	315	630	200	-	-	1145
476	476...515.9	L-107	L-418	315	630	315	-	-	1260
516	516...555.9	L-107	L-418	315	630	400	-	-	1345
556	556...595.9	L-107	L-418	315	630	400	-	-	1345
596	596...635.9	L-107	L-418	315	630	500	-	-	1445

1) Nomenclature differences between older and newer nozzle series result from the revision of the nozzle range.
2) Depending on the nozzle series, the length code corresponds either to a particular nozzle length or to a range of lengths.
3) The numbering of the heating zones starts at the nozzle tip and ends at the nozzle head.

For design and application information, see the Synventive Hot Runner Guide.

Synventive molding solutions

16 E02 Y01V
Manifold nozzle, screw fit, valve gate

CPTA

Illustrations simplified, schematically drawn and not to scale.

You can configure your nozzle here

1. Complete the nozzle description [1]

16 E02 Y01V

Series & Type ↑ Length code ↑

2. Selection of variables

L=↑* **H=↑**

*can be chosen within range shown in table below

Example and explanations

Series ↓ Position in nozzle length chart [2] ↓

16 E02 Y01V **196**

Series & Type ↑ Type [1] Length code ↑

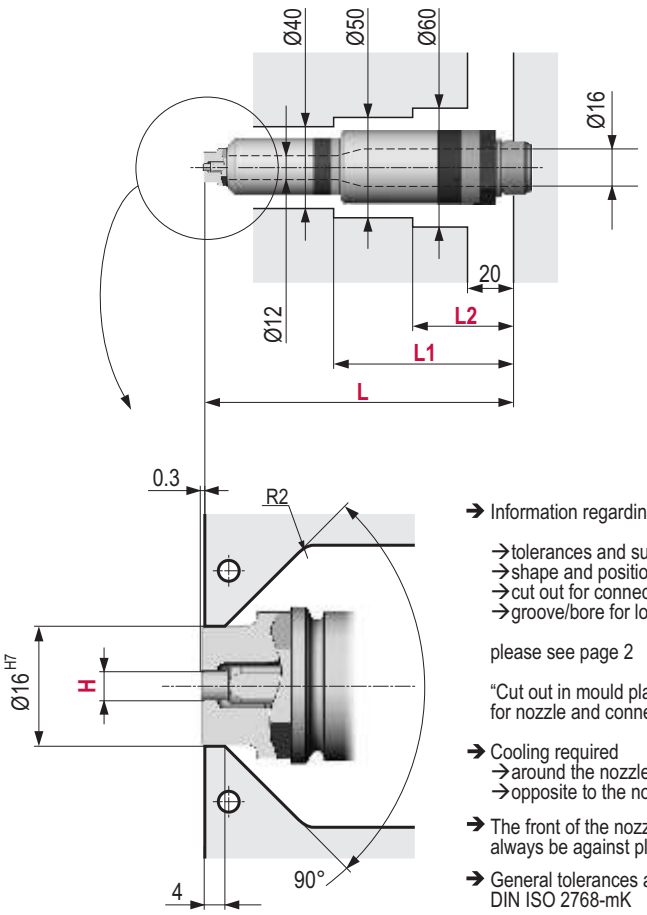
- **Y** Nozzle tip shape Y
- **01** Version 01: for materials with narrrow to medium process window
- **V** Gating type V: valve gate

212 **4.0**

L=↑ **H=↑**

Variables for precise nozzle specification from the drawings and tables shown here

H (mm)
4.0



→ Information regarding

→tolerances and surfaces
→shape and position tolerances
→cut out for connections
→groove/bore for locking pin

please see page 2

"Cut out in mould plate for nozzle and connections"

→ Cooling required
→around the nozzle tip
→opposite to the nozzle tip

→ The front of the nozzle tip must always be against plastic.

→ General tolerances according to DIN ISO 2768-mK

Length code	L (mm)	L1 (mm)	L2 (mm)	Heater zones power [3] (Watt)					
				1	2	3	4	5	1...5
196	196...235.9	L-107	-	315	200	-	-	-	515
236	236...275.9	L-107	-	315	315	-	-	-	630
276	276...315.9	L-107	-	315	400	-	-	-	715
316	316...355.9	L-107	-	315	400	-	-	-	715
356	356...395.9	L-107	-	315	500	-	-	-	815
396	396...435.9	L-107	0 / L-418	315	630	-	-	-	945
436	436...475.9	L-107	L-418	315	630	200	-	-	1145
476	476...515.9	L-107	L-418	315	630	315	-	-	1260
516	516...555.9	L-107	L-418	315	630	400	-	-	1345
556	556...595.9	L-107	L-418	315	630	400	-	-	1345
596	596...635.9	L-107	L-418	315	630	500	-	-	1445

1) Nomenclature differences between older and newer nozzle series result from the revision of the nozzle range.
2) Depending on the nozzle series, the length code corresponds either to a particular nozzle length or to a range of lengths.
3) The numbering of the heating zones starts at the nozzle tip and ends at the nozzle head.

For design and application information, see the Synventive Hot Runner Guide.

Synventive molding solutions

16 E02 U01T
Manifold nozzle, screw fit, open with torpedo

C P T A

Illustrations simplified, schematically drawn and not to scale.

You can configure your nozzle here

1. Complete the nozzle description [1]

16 E02 U01T

Series & Type ↑ Length code ↑

2. Selection of variables

L=↑* **H=↑**

*can be chosen within range shown in table below

Example and explanations

Series ↓ Position in nozzle length chart [2] ↓

16 E02 U01T **200**

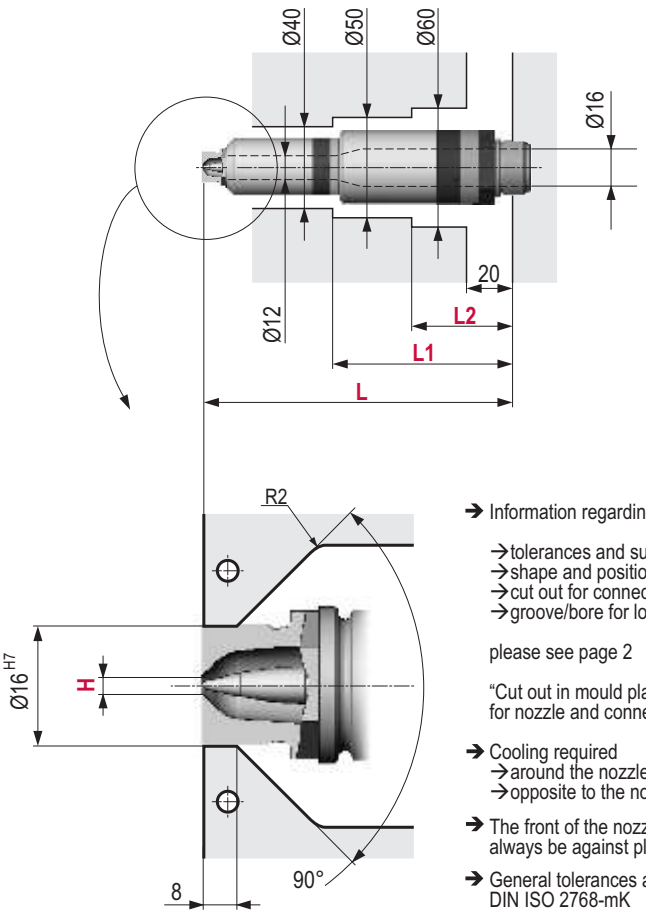
Series & Type ↑ Type [1] Length code ↑

- **U** Nozzle tip shape U
- **01** Version 01: for materials with medium to wide process window
- **T** Gating type T: open with torpedo

212 **3.6**

L=↑ **H=↑**

Variables for precise nozzle specification from the drawings and tables shown here



→ Information regarding

→tolerances and surfaces
→shape and position tolerances
→cut out for connections
→groove/bore for locking pin

please see page 2

"Cut out in mould plate for nozzle and connections"

→ Cooling required
→around the nozzle tip
→opposite to the nozzle tip

→ The front of the nozzle tip must always be against plastic.

→ General tolerances according to DIN ISO 2768-mK

H (mm)					
2.1	2.4	2.7	3.0	3.3	3.6

Length code	L (mm)	L1 (mm)	L2 (mm)	Heater zones power [3] (Watt)					
				1	2	3	4	5	1...5
200	200...239.9	L-111	-	315	200	-	-	-	515
240	240...279.9	L-111	-	315	315	-	-	-	630
280	280...319.9	L-111	-	315	400	-	-	-	715
320	320...359.9	L-111	-	315	400	-	-	-	715
360	360...399.9	L-111	-	315	500	-	-	-	815
400	400...439.9	L-111	0 / L-422	315	630	-	-	-	945
440	440...479.9	L-111	L-422	315	630	200	-	-	1145
480	480...519.9	L-111	L-422	315	630	315	-	-	1260
520	520...559.9	L-111	L-422	315	630	400	-	-	1345
560	560...599.9	L-111	L-422	315	630	400	-	-	1345
600	600...639.9	L-111	L-422	315	630	500	-	-	1445

1) Nomenclature differences between older and newer nozzle series result from the revision of the nozzle range.
2) Depending on the nozzle series, the length code corresponds either to a particular nozzle length or to a range of lengths.
3) The numbering of the heating zones starts at the nozzle tip and ends at the nozzle head.

For design and application information, see the Synventive Hot Runner Guide.

Synventive molding solutions

16 E02 P01T
Manifold nozzle, screw fit, open with torpedo

C P T A

Illustrations simplified, schematically drawn and not to scale.

You can configure your nozzle here

1. Complete the nozzle description [1]

16 E02 P01T

Series & Type ↑ Length code ↑

2. Selection of variables

L=↑* **H=↑**

*can be chosen within range shown in table below

Example and explanations

Series ↓ Position in nozzle length chart [2] ↓

16 E02 P01T **200**

Series & Type ↑ Type [1] Length code ↑

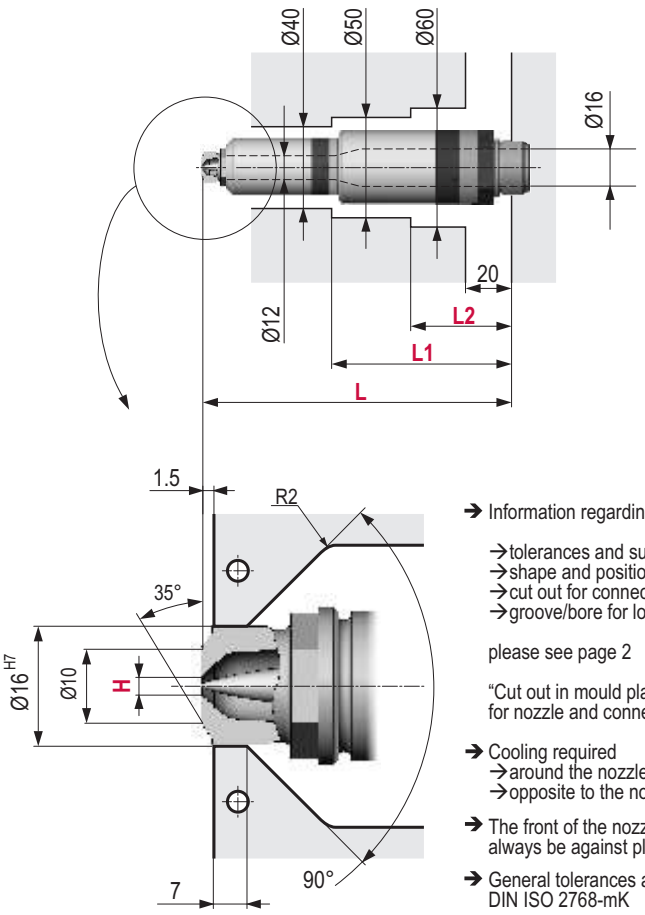
- **P** Nozzle tip shape P
- **01** Version 01: for materials with medium to wide process window
- **T** Gating type T: open with torpedo

212 **3.6**

L=↑ **H=↑**

Variables for precise nozzle specification from the drawings and tables shown here

H (mm)					
2.1	2.4	2.7	3.0	3.3	3.6



→ Information regarding

→tolerances and surfaces
→shape and position tolerances
→cut out for connections
→groove/bore for locking pin

please see page 2

"Cut out in mould plate for nozzle and connections"

→ Cooling required
→around the nozzle tip
→opposite to the nozzle tip

→ The front of the nozzle tip must always be against plastic.

→ General tolerances according to DIN ISO 2768-mK

Length code	L (mm)	L1 (mm)	L2 (mm)	Heater zones power [3] (Watt)					
				1	2	3	4	5	1...5
200	200...239.9	L-111	-	315	200	-	-	-	515
240	240...279.9	L-111	-	315	315	-	-	-	630
280	280...319.9	L-111	-	315	400	-	-	-	715
320	320...359.9	L-111	-	315	400	-	-	-	715
360	360...399.9	L-111	-	315	500	-	-	-	815
400	400...439.9	L-111	0 / L-422	315	630	-	-	-	945
440	440...479.9	L-111	L-422	315	630	200	-	-	1145
480	480...519.9	L-111	L-422	315	630	315	-	-	1260
520	520...559.9	L-111	L-422	315	630	400	-	-	1345
560	560...599.9	L-111	L-422	315	630	400	-	-	1345
600	600...639.9	L-111	L-422	315	630	500	-	-	1445

1) Nomenclature differences between older and newer nozzle series result from the revision of the nozzle range.
2) Depending on the nozzle series, the length code corresponds either to a particular nozzle length or to a range of lengths.
3) The numbering of the heating zones starts at the nozzle tip and ends at the nozzle head.

For design and application information, see the Synventive Hot Runner Guide.

Synventive molding solutions

16 E02 K01N
Manifold nozzle, screw fit, open

CPTA

Illustrations simplified, schematically drawn and not to scale.

You can configure your nozzle here

1. Complete the nozzle description [1]

16 E02 K01N

Series & Type ↑ Length code ↑

2. Selection of variables

L=↑* **H=↑** **F=↑**

*can be chosen within range shown in table below

Example and explanations

Series ↓ Position in nozzle length chart [2] ↓

16 E02 K01N **200**

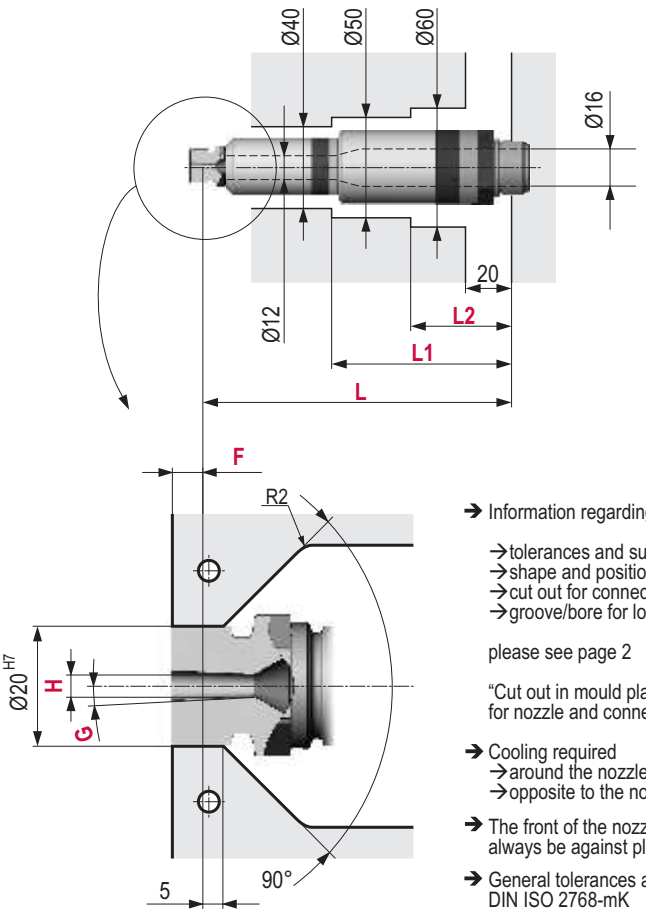
Series & Type ↑ Type [1] Length code ↑

- **K** Nozzle tip shape K
- **01** Version 01: for all usual thermoplastics
- **N** Gating type N: open

212 **3.6** **30**

L=↑ **H=↑** **F=↑**

Variables for precise nozzle specification from the drawings and tables shown here



→ Information regarding

→tolerances and surfaces
→shape and position tolerances
→cut out for connections
→groove/bore for locking pin

please see page 2

"Cut out in mould plate for nozzle and connections"

→ Cooling required
→around the nozzle tip
→opposite to the nozzle tip

→ The front of the nozzle tip must always be against plastic.

→ General tolerances according to DIN ISO 2768-mK

H (mm)					
2.2	2.5	2.8	3.2	3.6	4.0

F (mm)					
0	5	30	50	70	90

G (°)	
F = 0...50	F = 70 / 90
3	1.5

Length code	L (mm)	L1 (mm)	L2 (mm)	Heater zones power [3] (Watt)					
				1	2	3	4	5	1...5
200	200...239.9	L-111	-	315	200	-	-	-	515
240	240...279.9	L-111	-	315	315	-	-	-	630
280	280...319.9	L-111	-	315	400	-	-	-	715
320	320...359.9	L-111	-	315	400	-	-	-	715
360	360...399.9	L-111	-	315	500	-	-	-	815
400	400...439.9	L-111	0 / L-422	315	630	-	-	-	945
440	440...479.9	L-111	L-422	315	630	200	-	-	1145
480	480...519.9	L-111	L-422	315	630	315	-	-	1260
520	520...559.9	L-111	L-422	315	630	400	-	-	1345
560	560...599.9	L-111	L-422	315	630	400	-	-	1345
600	600...639.9	L-111	L-422	315	630	500	-	-	1445

1) Nomenclature differences between older and newer nozzle series result from the revision of the nozzle range.
2) Depending on the nozzle series, the length code corresponds either to a particular nozzle length or to a range of lengths.
3) The numbering of the heating zones starts at the nozzle tip and ends at the nozzle head.

For design and application information, see the Synventive Hot Runner Guide.

Synventive molding solutions

16 E02 L01T
Manifold nozzle, screw fit, open with torpedo

C P T A

Illustrations simplified, schematically drawn and not to scale.

You can configure your nozzle here

1. Complete the nozzle description [1]

16 E02 L01T

Series & Type ↑ Length code ↑

2. Selection of variables

L=↑* **H=↑** **F=↑**

*can be chosen within range shown in table below

Example and explanations

Series ↓ Position in nozzle length chart [2] ↓

16 E02 L01T **196**

Series & Type ↑ Type [1] Length code ↑

- **L** Nozzle tip shape L
- **01** Version 01: for materials with narrow to medium process window
- **T** Gating type T: open with torpedo

212 **3.6** **15**

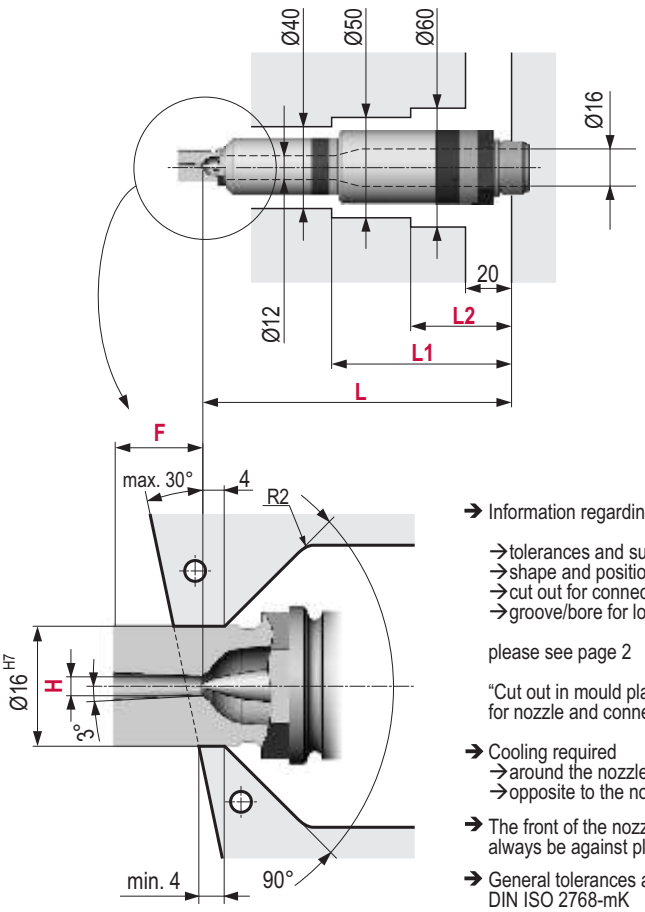
L=↑ **H=↑** **F=↑**

Variables for precise nozzle specification from the drawings and tables shown here

H (mm)					
2.1	2.4	2.7	3.0	3.3	3.6

F (mm)	
15	50

G (°)
3



➔ Information regarding
→tolerances and surfaces
→shape and position tolerances
→cut out for connections
→groove/bore for locking pin

please see page 2

"Cut out in mould plate for nozzle and connections"

➔ Cooling required
→around the nozzle tip
→opposite to the nozzle tip

➔ The front of the nozzle tip must always be against plastic.

➔ General tolerances according to DIN ISO 2768-mK

Length code	L (mm)	L1 (mm)	L2 (mm)	Heater zones power [3] (Watt)					
				1	2	3	4	5	1...5
196	196...235.9	L-107	-	315	200	-	-	-	515
236	236...275.9	L-107	-	315	315	-	-	-	630
276	276...315.9	L-107	-	315	400	-	-	-	715
316	316...355.9	L-107	-	315	400	-	-	-	715
356	356...395.9	L-107	-	315	500	-	-	-	815
396	396...435.9	L-107	0 / L-418	315	630	-	-	-	945
436	436...475.9	L-107	L-418	315	630	200	-	-	1145
476	476...515.9	L-107	L-418	315	630	315	-	-	1260
516	516...555.9	L-107	L-418	315	630	400	-	-	1345
556	556...595.9	L-107	L-418	315	630	400	-	-	1345
596	596...635.9	L-107	L-418	315	630	500	-	-	1445

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2) Depending on the nozzle series, the length code corresponds either to a particular nozzle length or to a range of lengths.
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For design and application information, see the Synventive Hot Runner Guide.

Synventive molding solutions

16 E02 L01V
Manifold nozzle, screw fit, open with torpedo

C P T A

Illustrations simplified, schematically drawn and not to scale.

You can configure your nozzle here

1. Complete the nozzle description [1]

16 E02 L01V

Series & Type ↑ Length code ↑

2. Selection of variables

L=↑* **H=↑** **F=↑**

*can be chosen within range shown in table below

Example and explanations

Series ↓ Position in nozzle length chart [2] ↓

16 E02 L01V **196**

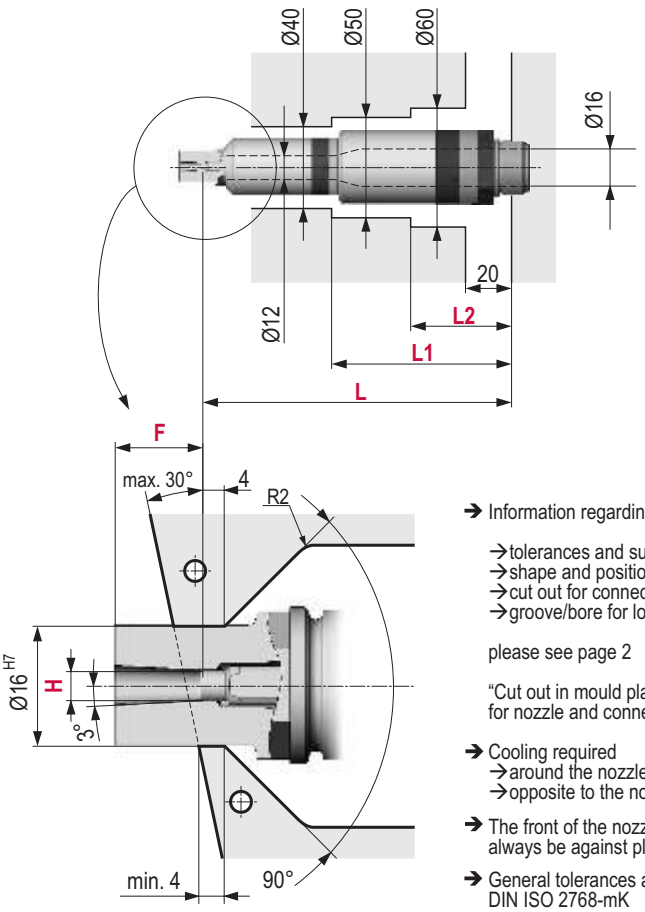
Series & Type ↑ Type [1] Length code ↑

- **L** Nozzle tip shape L
- **01** Version 01: for materials with narrow to medium process window
- **V** Gating type V: valve gate

212 **4.0** **15**

L=↑ **H=↑** **F=↑**

Variables for precise nozzle specification from the drawings and tables shown here



➔ Information regarding

→tolerances and surfaces
→shape and position tolerances
→cut out for connections
→groove/bore for locking pin

please see page 2

"Cut out in mould plate for nozzle and connections"

➔ Cooling required
→around the nozzle tip
→opposite to the nozzle tip

➔ The front of the nozzle tip must always be against plastic.

➔ General tolerances according to DIN ISO 2768-mK

H (mm)
4.0

F (mm)	
15	50

G (°)
3

Length code	L (mm)	L1 (mm)	L2 (mm)	Heater zones power [3] (Watt)					
				1	2	3	4	5	1...5
196	196...235.9	L-107	-	315	200	-	-	-	515
236	236...275.9	L-107	-	315	315	-	-	-	630
276	276...315.9	L-107	-	315	400	-	-	-	715
316	316...355.9	L-107	-	315	400	-	-	-	715
356	356...395.9	L-107	-	315	500	-	-	-	815
396	396...435.9	L-107	0 / L-418	315	630	-	-	-	945
436	436...475.9	L-107	L-418	315	630	200	-	-	1145
476	476...515.9	L-107	L-418	315	630	315	-	-	1260
516	516...555.9	L-107	L-418	315	630	400	-	-	1345
556	556...595.9	L-107	L-418	315	630	400	-	-	1345
596	596...635.9	L-107	L-418	315	630	500	-	-	1445

1) Nomenclature differences between older and newer nozzle series result from the revision of the nozzle range.
2) Depending on the nozzle series, the length code corresponds either to a particular nozzle length or to a range of lengths.
3) The numbering of the heating zones starts at the nozzle tip and ends at the nozzle head.

For design and application information, see the Synventive Hot Runner Guide.

Synventive molding solutions

16 E02 S01T
Manifold nozzle, screw fit, open with torpedo

CPTA

Illustrations simplified, schematically drawn and not to scale.

You can configure your nozzle here

1. Complete the nozzle description [1]

16 E02	S01T
Series & Type ↑	Length code ↑

2. Selection of variables

L=↑* H=↑ F=↑

*can be chosen within range shown in table below

Example and explanations

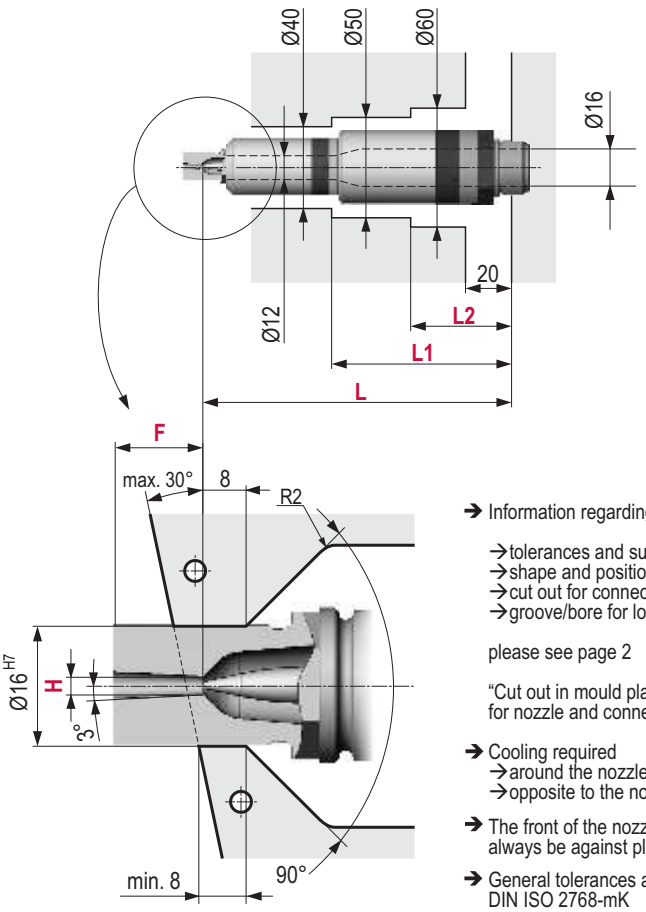
Series ↓ 16 E02 S01T — Position in nozzle length chart [2] ↓ 200

Series & Type ↑ — Type [1] — Length code ↑

- **S** Nozzle tip shape S
- **01** Version 01: for materials with medium to wide process window
- **T** Gating type T: open with torpedo

212	3.6	15
L=↑	H=↑	F=↑

Variables for precise nozzle specification from the drawings and tables shown here



→ Information regarding

→tolerances and surfaces
→shape and position tolerances
→cut out for connections
→groove/bore for locking pin

please see page 2

"Cut out in mould plate for nozzle and connections"

→ Cooling required
→around the nozzle tip
→opposite to the nozzle tip

→ The front of the nozzle tip must always be against plastic.

→ General tolerances according to DIN ISO 2768-mK

H (mm)					
2.1	2.4	2.7	3.0	3.3	3.6

F (mm)	
15	50

G (°)
3

Length code	L (mm)	L1 (mm)	L2 (mm)	Heater zones power [3] (Watt)					
				1	2	3	4	5	1...5
200	200...239.9	L-111	-	315	200	-	-	-	515
240	240...279.9	L-111	-	315	315	-	-	-	630
280	280...319.9	L-111	-	315	400	-	-	-	715
320	320...359.9	L-111	-	315	400	-	-	-	715
360	360...399.9	L-111	-	315	500	-	-	-	815
400	400...439.9	L-111	0 / L-422	315	630	-	-	-	945
440	440...479.9	L-111	L-422	315	630	200	-	-	1145
480	480...519.9	L-111	L-422	315	630	315	-	-	1260
520	520...559.9	L-111	L-422	315	630	400	-	-	1345
560	560...599.9	L-111	L-422	315	630	400	-	-	1345
600	600...639.9	L-111	L-422	315	630	500	-	-	1445

1) Nomenclature differences between older and newer nozzle series result from the revision of the nozzle range.
2) Depending on the nozzle series, the length code corresponds either to a particular nozzle length or to a range of lengths.
3) The numbering of the heating zones starts at the nozzle tip and ends at the nozzle head.

For design and application information, see the Synventive Hot Runner Guide.

Synventive molding solutions

16 E02 S01V
Manifold nozzle, screw fit, open with torpedo

C P T A

Illustrations simplified, schematically drawn and not to scale.

You can configure your nozzle here

1. Complete the nozzle description [1]

16 E02 S01V

Series & Type ↑ Length code ↑

2. Selection of variables

L=↑* **H=↑** **F=↑**

*can be chosen within range shown in table below

Example and explanations

Series ↓ Position in nozzle length chart [2] ↓

16 E02 S01V **200**

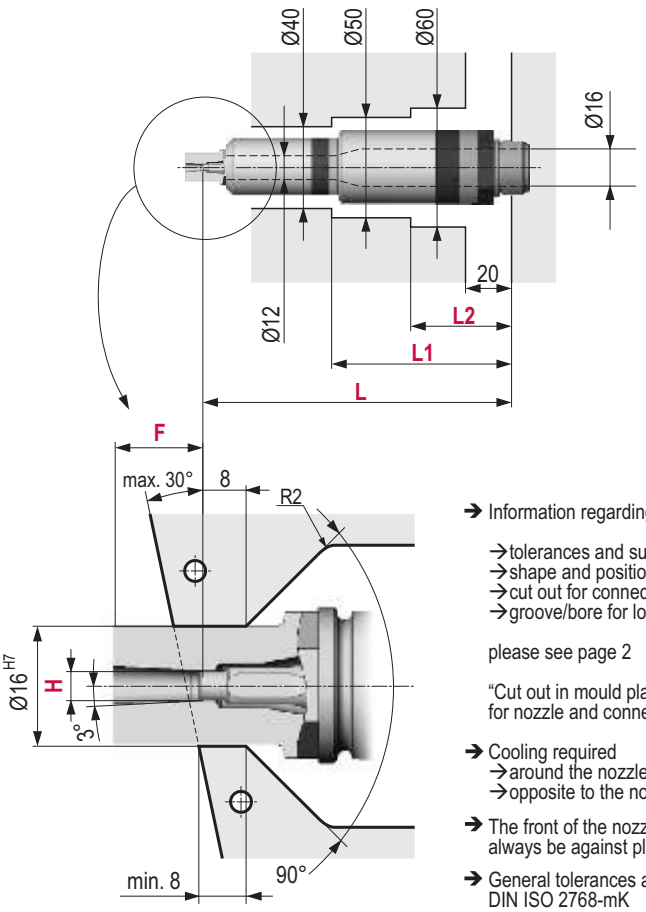
Series & Type ↑ Type [1] Length code ↑

- **S** Nozzle tip shape S
- **01** Version 01: for materials with medium to wide process window
- **V** Gating type V: valve gate

212 **4.0** **15**

L=↑ **H=↑** **F=↑**

Variables for precise nozzle specification from the drawings and tables shown here



➔ Information regarding
→tolerances and surfaces
→shape and position tolerances
→cut out for connections
→groove/bore for locking pin

please see page 2

"Cut out in mould plate for nozzle and connections"

➔ Cooling required
→around the nozzle tip
→opposite to the nozzle tip

➔ The front of the nozzle tip must always be against plastic.

➔ General tolerances according to DIN ISO 2768-mK

H (mm)
4.0

F (mm)	
15	50

G (°)
3

Length code	L (mm)	L1 (mm)	L2 (mm)	Heater zones power [3] (Watt)					
				1	2	3	4	5	1...5
200	200...239.9	L-111	-	315	200	-	-	-	515
240	240...279.9	L-111	-	315	315	-	-	-	630
280	280...319.9	L-111	-	315	400	-	-	-	715
320	320...359.9	L-111	-	315	400	-	-	-	715
360	360...399.9	L-111	-	315	500	-	-	-	815
400	400...439.9	L-111	0 / L-422	315	630	-	-	-	945
440	440...479.9	L-111	L-422	315	630	200	-	-	1145
480	480...519.9	L-111	L-422	315	630	315	-	-	1260
520	520...559.9	L-111	L-422	315	630	400	-	-	1345
560	560...599.9	L-111	L-422	315	630	400	-	-	1345
600	600...639.9	L-111	L-422	315	630	500	-	-	1445

1) Nomenclature differences between older and newer nozzle series result from the revision of the nozzle range.
2) Depending on the nozzle series, the length code corresponds either to a particular nozzle length or to a range of lengths.
3) The numbering of the heating zones starts at the nozzle tip and ends at the nozzle head.

For design and application information, see the Synventive Hot Runner Guide.

Synventive molding solutions

16 E02 V01V
Manifold nozzle, screw fit, open with torpedo

C P T A

Illustrations simplified, schematically drawn and not to scale.

You can configure your nozzle here

1. Complete the nozzle description [1]

16 E02	V01V
Series & Type ↑	Length code ↑

2. Selection of variables

L=↑* H=↑ F=↑

*can be chosen within range shown in table below

Example and explanations

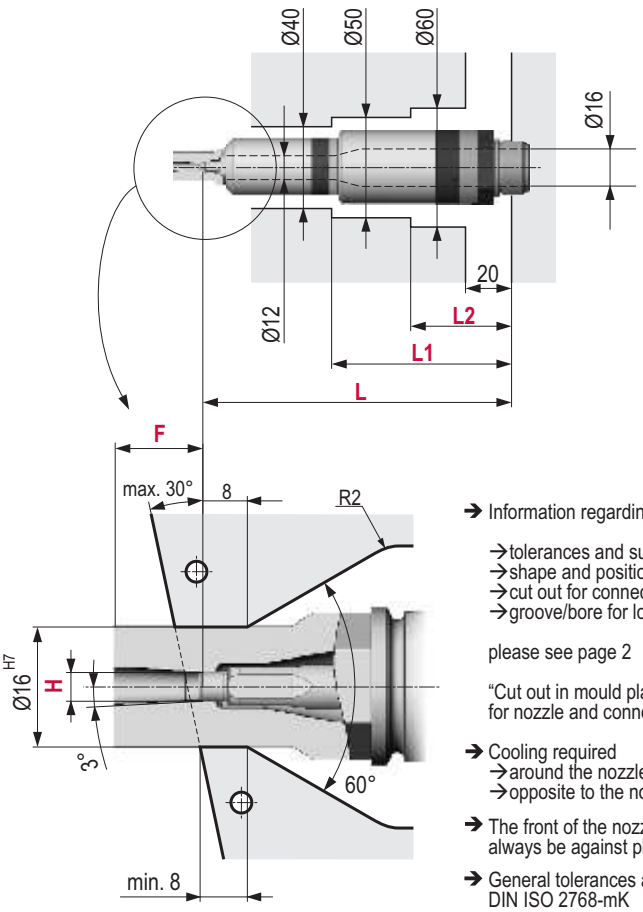
Series ↓ — Position in nozzle length chart [2] ↓

16 E02	V01V	207
Series & Type ↑	Type [1] ↑	Length code ↑

- **V** Nozzle tip shape V
- **01** Version 01: for materials with medium to wide process window
- **V** Gating type V: valve gate

212	4.0	15
L=↑	H=↑	F=↑

Variables for precise nozzle specification from the drawings and tables shown here



→ Information regarding

→tolerances and surfaces
→shape and position tolerances
→cut out for connections
→groove/bore for locking pin

please see page 2

"Cut out in mould plate for nozzle and connections"

→ Cooling required
→around the nozzle tip
→opposite to the nozzle tip

→ The front of the nozzle tip must always be against plastic.

→ General tolerances according to DIN ISO 2768-mK

H (mm)
4.0

F (mm)				
0	15	30	50	90

G (°)	
F = 0 / 15 / 30	F = 50 / 90
3	1.5

Length code	L (mm)	L1 (mm)	L2 (mm)	Heater zones power [3] (Watt)					
				1	2	3	4	5	1...5
207	207...246.9	L-118	-	315	200	-	-	-	515
247	247...286.9	L-118	-	315	315	-	-	-	630
287	287...326.9	L-118	-	315	400	-	-	-	715
327	327...366.9	L-118	-	315	400	-	-	-	715
367	367...406.9	L-118	-	315	500	-	-	-	815
407	407...446.9	L-118	0 / L-429	315	630	-	-	-	945
447	447...486.9	L-118	L-429	315	630	200	-	-	1145
487	487...526.9	L-118	L-429	315	630	315	-	-	1260
527	527...566.9	L-118	L-429	315	630	400	-	-	1345
567	567...606.9	L-118	L-429	315	630	400	-	-	1345
607	607...646.9	L-118	L-429	315	630	500	-	-	1445

1) Nomenclature differences between older and newer nozzle series result from the revision of the nozzle range.
2) Depending on the nozzle series, the length code corresponds either to a particular nozzle length or to a range of lengths.
3) The numbering of the heating zones starts at the nozzle tip and ends at the nozzle head.

For design and application information, see the Synventive Hot Runner Guide.

Synventive molding solutions

16 E02 W01T
Manifold nozzle, screw fit, open with torpedo

C P T A

Illustrations simplified, schematically drawn and not to scale.

You can configure your nozzle here

1. Complete the nozzle description [1]

16 E02 W01T

Series & Type ↑ Length code ↑

2. Selection of variables

L=↑* **H=↑**

*can be chosen within range shown in table below

Example and explanations

Series ↓ Position in nozzle length chart [2] ↓

16 E02 W01T **200**

Series & Type ↑ Type [1] Length code ↑

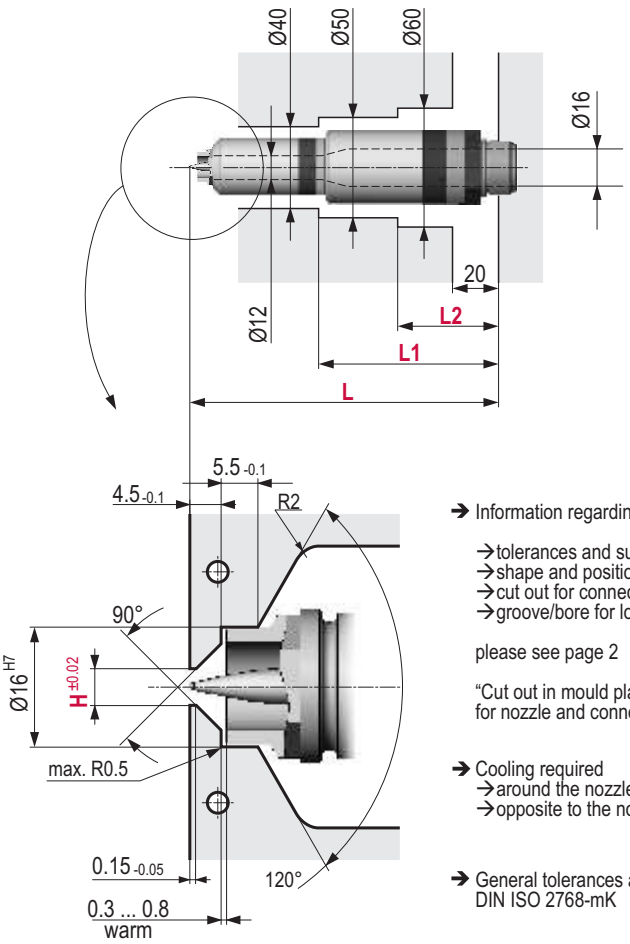
- **W** Nozzle tip shape W
- **01** Version 01: for materials with medium to wide process window
- **T** Gating type T: open with torpedo

212 **3.6**

L=↑ **H=↑**

Variables for precise nozzle specification from the drawings and tables shown here

H (mm)					
2.1	2.4	2.7	3.0	3.3	3.6



➔ Information regarding
→tolerances and surfaces
→shape and position tolerances
→cut out for connections
→groove/bore for locking pin

please see page 2

"Cut out in mould plate for nozzle and connections"

➔ Cooling required
→around the nozzle tip
→opposite to the nozzle tip

➔ General tolerances according to DIN ISO 2768-mK

Length code	L (mm)	L1 (mm)	L2 (mm)	Heater zones power [3] (Watt)					
				1	2	3	4	5	1...5
200	200...239.9	L-111	-	315	200	-	-	-	515
240	240...279.9	L-111	-	315	315	-	-	-	630
280	280...319.9	L-111	-	315	400	-	-	-	715
320	320...359.9	L-111	-	315	400	-	-	-	715
360	360...399.9	L-111	-	315	500	-	-	-	815
400	400...439.9	L-111	0 / L-422	315	630	-	-	-	945
440	440...479.9	L-111	L-422	315	630	200	-	-	1145
480	480...519.9	L-111	L-422	315	630	315	-	-	1260
520	520...559.9	L-111	L-422	315	630	400	-	-	1345
560	560...599.9	L-111	L-422	315	630	400	-	-	1345
600	600...639.9	L-111	L-422	315	630	500	-	-	1445

1) Nomenclature differences between older and newer nozzle series result from the revision of the nozzle range.
2) Depending on the nozzle series, the length code corresponds either to a particular nozzle length or to a range of lengths.
3) The numbering of the heating zones starts at the nozzle tip and ends at the nozzle head.

For design and application information, see the Synventive Hot Runner Guide.

Synventive molding solutions

16 E02 W01V
Manifold nozzle, screw fit, open with torpedo

C P T A

Illustrations simplified, schematically drawn and not to scale.

You can configure your nozzle here

1. Complete the nozzle description [1]

16 E02 W01V

Series & Type ↑ Length code ↑

2. Selection of variables

L=↑* **H=↑**

*can be chosen within range shown in table below

Example and explanations

Series ↓ Position in nozzle length chart [2] ↓

16 E02 W01V **200**

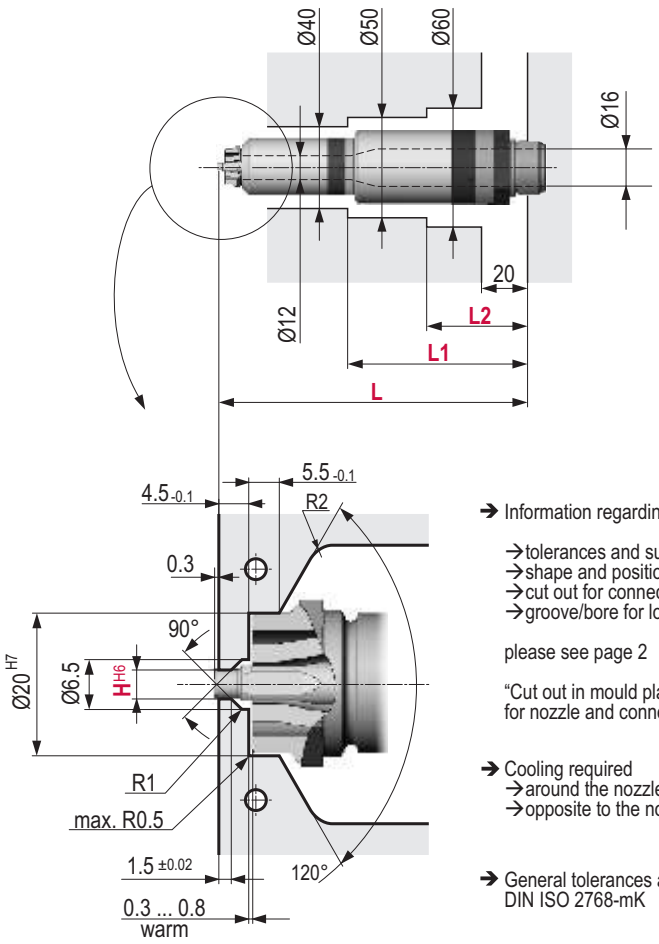
Series & Type ↑ Type [1] Length code ↑

- **W** Nozzle tip shape W
- **01** Version 01: for materials with medium to wide process window
- **V** Gating type V: valve gate

212 **4.0**

L=↑ **H=↑**

Variables for precise nozzle specification from the drawings and tables shown here



→ Information regarding

→tolerances and surfaces
→shape and position tolerances
→cut out for connections
→groove/bore for locking pin

please see page 2

"Cut out in mould plate for nozzle and connections"

→ Cooling required
→around the nozzle tip
→opposite to the nozzle tip

→ General tolerances according to DIN ISO 2768-mK

H (mm)
4.0

Length code	L (mm)	L1 (mm)	L2 (mm)	Heater zones power [3] (Watt)					
				1	2	3	4	5	1...5
200	200...239.9	L-111	-	315	200	-	-	-	515
240	240...279.9	L-111	-	315	315	-	-	-	630
280	280...319.9	L-111	-	315	400	-	-	-	715
320	320...359.9	L-111	-	315	400	-	-	-	715
360	360...399.9	L-111	-	315	500	-	-	-	815
400	400...439.9	L-111	0 / L-422	315	630	-	-	-	945
440	440...479.9	L-111	L-422	315	630	200	-	-	1145
480	480...519.9	L-111	L-422	315	630	315	-	-	1260
520	520...559.9	L-111	L-422	315	630	400	-	-	1345
560	560...599.9	L-111	L-422	315	630	400	-	-	1345
600	600...639.9	L-111	L-422	315	630	500	-	-	1445

1) Nomenclature differences between older and newer nozzle series result from the revision of the nozzle range.
2) Depending on the nozzle series, the length code corresponds either to a particular nozzle length or to a range of lengths.
3) The numbering of the heating zones starts at the nozzle tip and ends at the nozzle head.

For design and application information, see the Synventive Hot Runner Guide.

Synventive molding solutions

16 E02 W02V
Manifold nozzle, screw fit, open with torpedo

C P T A

Illustrations simplified, schematically drawn and not to scale.

You can configure your nozzle here

1. Complete the nozzle description [1]

16 E02 W02V

Series & Type ↑ Length code ↑

2. Selection of variables

L=↑* **H=↑**

*can be chosen within range shown in table below

Example and explanations

Series ↓ Position in nozzle length chart [2] ↓

16 E02 W02V **203**

Series & Type ↑ Type [1] Length code ↑

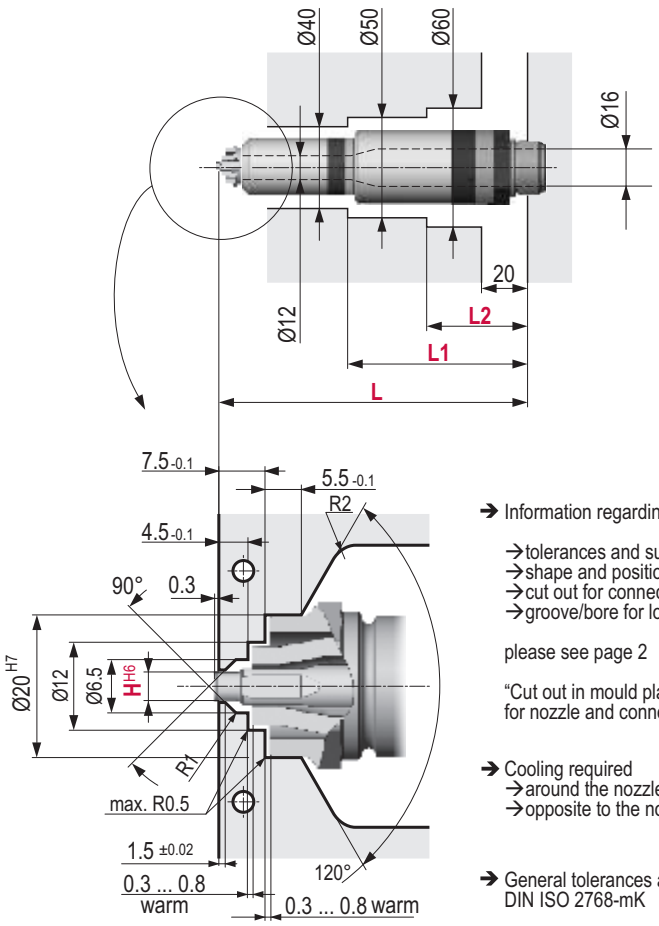
- **W** Nozzle tip shape W
- **02** Version 02:
  - →for wide process window
  - →when installation space is limited
- **V** Gating type V: valve gate

212 **4.0**

L=↑ **H=↑**

Variables for precise nozzle specification from the drawings and tables shown here

H (mm)
4.0



→ Information regarding

→tolerances and surfaces
→shape and position tolerances
→cut out for connections
→groove/bore for locking pin

please see page 2

"Cut out in mould plate for nozzle and connections"

→ Cooling required
→around the nozzle tip
→opposite to the nozzle tip

→ General tolerances according to DIN ISO 2768-mK

Length code	L (mm)	L1 (mm)	L2 (mm)	Heater zones power [3] (Watt) 1	2	3	4	5	1...5
203	203...242.9	L-114	-	315	200	-	-	-	515
243	243...282.9	L-114	-	315	315	-	-	-	630
283	283...322.9	L-114	-	315	400	-	-	-	715
323	323...362.9	L-114	-	315	400	-	-	-	715
363	363...402.9	L-114	-	315	500	-	-	-	815
403	403...442.9	L-114	0 / L-425	315	630	-	-	-	945
443	443...482.9	L-114	L-425	315	630	200	-	-	1145
483	483...522.9	L-114	L-425	315	630	315	-	-	1260
523	523...562.9	L-114	L-425	315	630	400	-	-	1345
563	563...602.9	L-114	L-425	315	630	400	-	-	1345
603	603...642.9	L-114	L-425	315	630	500	-	-	1445

1) Nomenclature differences between older and newer nozzle series result from the revision of the nozzle range.
2) Depending on the nozzle series, the length code corresponds either to a particular nozzle length or to a range of lengths.
3) The numbering of the heating zones starts at the nozzle tip and ends at the nozzle head.

For design and application information, see the Synventive Hot Runner Guide.

www.synventive.com

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Synventive
molding solutions