iSystem 7

Verzeichnis
Index

EINZELDÜSEN
SINGLE NOZZLES

S01		Einzeldüse Single nozzle	13
S02		Einzeldüse bearbeitbarer Kopf iSystem Single nozzle with machinable head	14
S07		Einzeldüse Mini-Mould Single nozzle Mini-Mould	15
S04		Einzeldüse Multi-Tip Single nozzle Multi-Tip	16

STANDARD VERTEILER ISYSTESTEM
STANDARD MANIFOLDS ISYSTEM

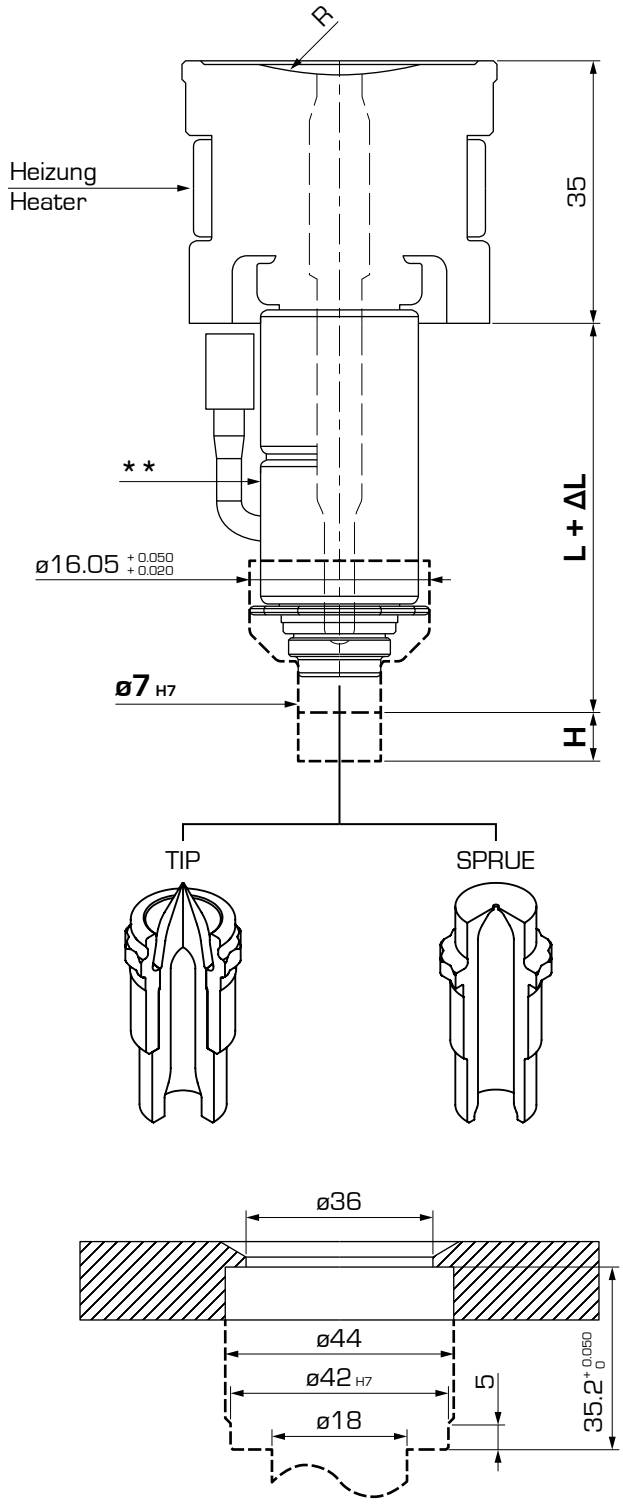
M01		Düse Nozzle	17
H01		Standardverteiler, 2 Fach gerade Standard manifold, two drops in line	18
H02		Standardverteiler, 2 Fach gerade Nadelverschluß iSystem SOV Valve gate standard manifold, two drops in line	19
SOV-01		Nadelverschluß Gruppe TOP Valve gate Serie Top	20
SOV-07		Nadelverschluß Gruppe mit Deckel Valve gate with cover plate	20
K01		Einspritz Buchse Injection bushing	21
K01		Einspritz Buchse beheizt Injection bushing with heater	21

SPITZENBEREICH
GATE RANGES

T01		Topless T	22
T13		Topless T Verlängert Extended Topless T	23
T02		Open T	24
T03		Open XST	25
T07		Topless SO	26
T10		Topless SO mit Zentrierung Topless SO with centering	27
T08		Open SO	28
T11		Topless SOP	29

S01 Einzeldüse / Single nozzle

Düse Kennzahl:
Nozzle code: **S01-07-LXXX-RXX**



L mm	LXXX
50	**050**
70	**070**
90	**090**
*110	**110**
*130	**130**
**150	**150**
**170	**170**
**190	**190**

*Je nach Anwendung können zwei oder mehrere Heizungen verwendet warden. Kontaktieren Sie bitte unsere technische Abteilung. **Es Ist von Vorteil zwei oder mehr Heizungen am Düsenkörper zu verwenden.

* We will delay the decision to use two or more heaters in the nozzle body according to the application. Please contact our technical department.
** It is necessary to use two or more heaters in the nozzle body.

R mm	RXX
0	**R01**
15	**R02**
40	**R03**

Fase Chamfer	RXX
70 °	**SM70**

ΔL = (Melt. Temp. - Mould Temp.) x 0.0000132 x L

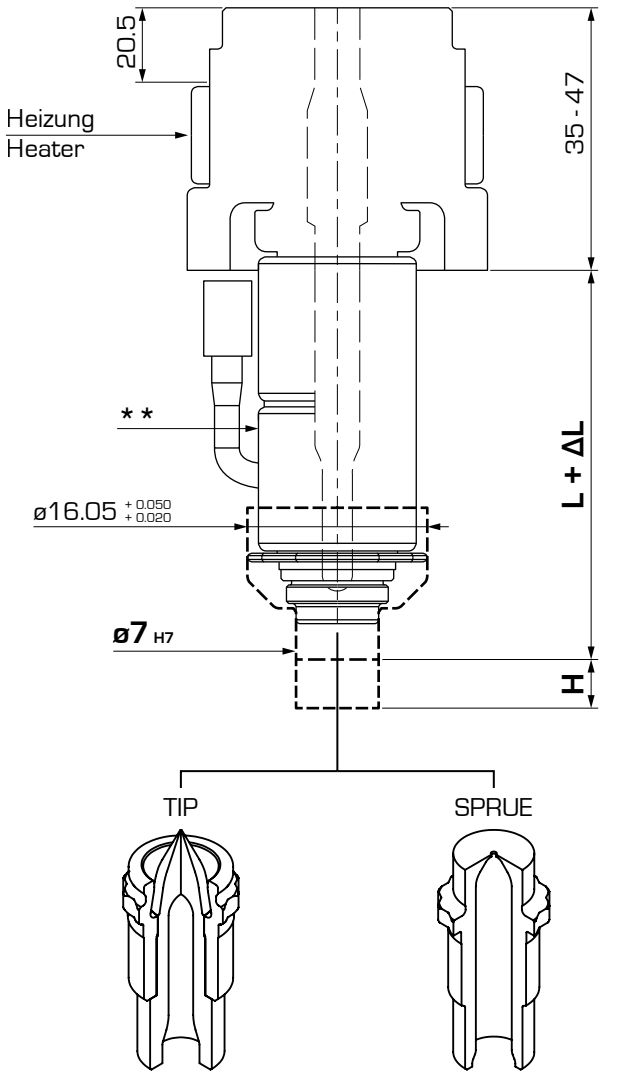
Ex. : (250 - 50) x 0.0000132 x 100 = 0.264 mm

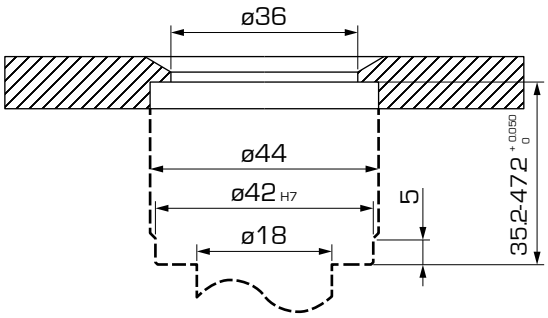
S02

Einzeldüse bearbeitbarer Kopf iSystem
Single nozzle with machinable head

Hinweis: Optionaler Antrag wird vom Kunden bearbeitet.

Note: optional application processed by the customer.





Düse Kennzahl:
Nozzle code:

S02-07-LXXX

L mm	LXXX
50	**050**
70	**070**
90	**090**
*110	**110**
*130	**130**
**150	**150**
**170	**170**
**190	**190**

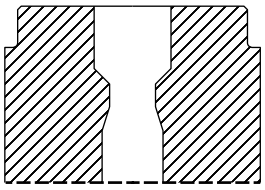
*Je nach Anwendung können zwei oder mehrere Heizungen verwendet warden. Kontaktieren Sie bitte unsere technische Abteilung. **Es ist von Vorteil zwei oder mehr Heizungen am Düsenkörper zu verwenden.

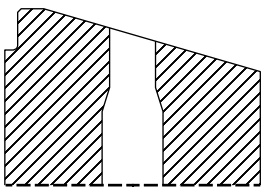
* We will delay the decision to use two or more heaters in the nozzle body according to the application. Please contact our technical department.
** It is necessary to use two or more heaters in the nozzle body.

ΔL = (Melt. Temp. - Mould Temp.) x 0.0000132 x L

Ex. : (250 - 50) x 0.0000132 x 100 = 0.264 mm

Bearbeitungsmöglichkeiten für Düsenkopf
Working possibilities for nozzle's head



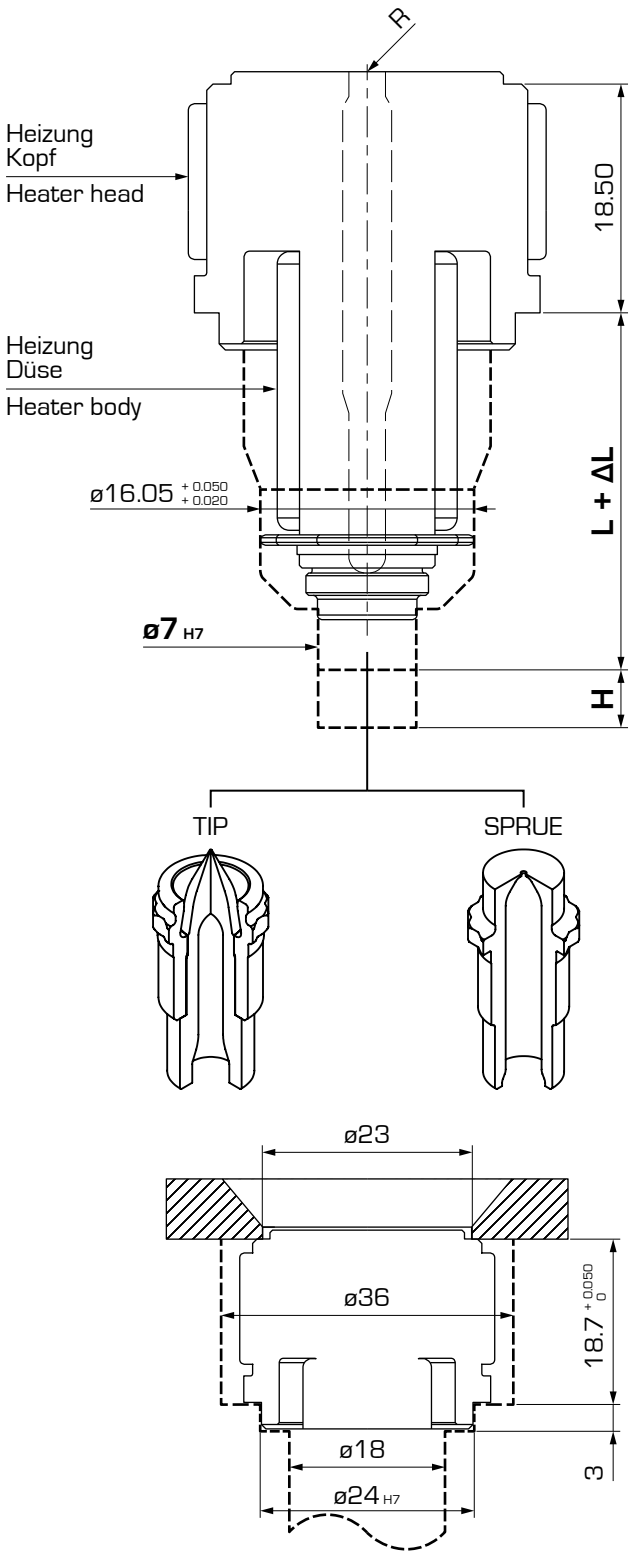


S07

Einzeldüse Mini-Mould
Single nozzle Mini-Mould

Hinweis: Nür Versionen "Tip" und "Open XST" mit diese Art von Düse möglich.

Note: only the version “Tip” and “Open XST” can be used for this type of nozzle.



Düse Kennzahl:

Nozzle code: **S07-07-LXXX-SXX**

L mm	LXXX
30.50	**030**

R mm	RXX
0	**R01**

Heizzonen Control Zones	Beschreibung Description	SXX
2	eine am Düsenkopf eine am Düsenkörper one on nozzle head one on nozzle body	**002**

ΔL = (Melt. Temp. - Mould Temp.) x 0.0000132 x L

Ex. : (250 - 50) x 0.0000132 x 100 = 0.264 mm

S04

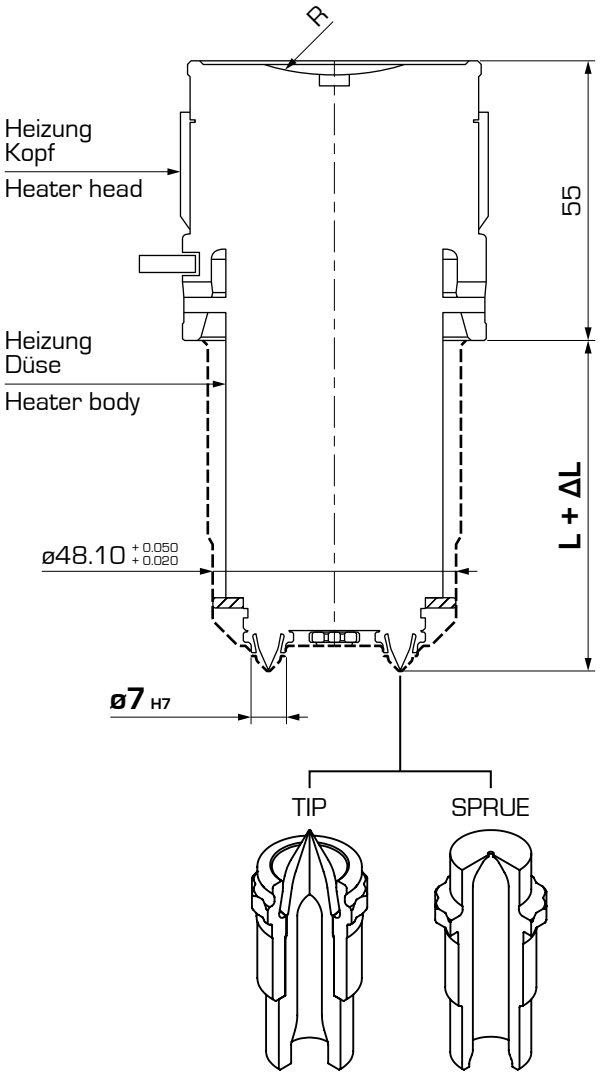
Einzeldüse Multi-Tip
Single nozzle Multi-Tip

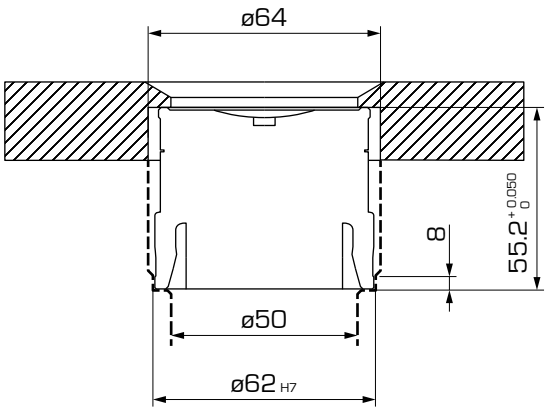
Hinweis: D steht für Radius des Sptize, P für die Anzahl von Spitze.

Note: D stands for the picth diameter, P stands for number of tips.

Düse Kennzahl:
Nozzle code:

S04-07-LXXX-RXX_DXX-PXX





L mm	LXXX
65	**065**
90	**090**
115	**115**

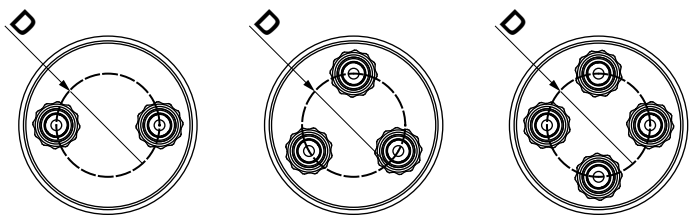
R mm	RXX
0	**R01**
40	**R03**

ΔL = (Melt. Temp. - Mould Temp.) x 0.0000132 x L

Ex. : (250 - 50) x 0.0000132 x 100 = 0.264 mm

D mm	DXX
18	**D01**
22	**D02**
26	**D03**

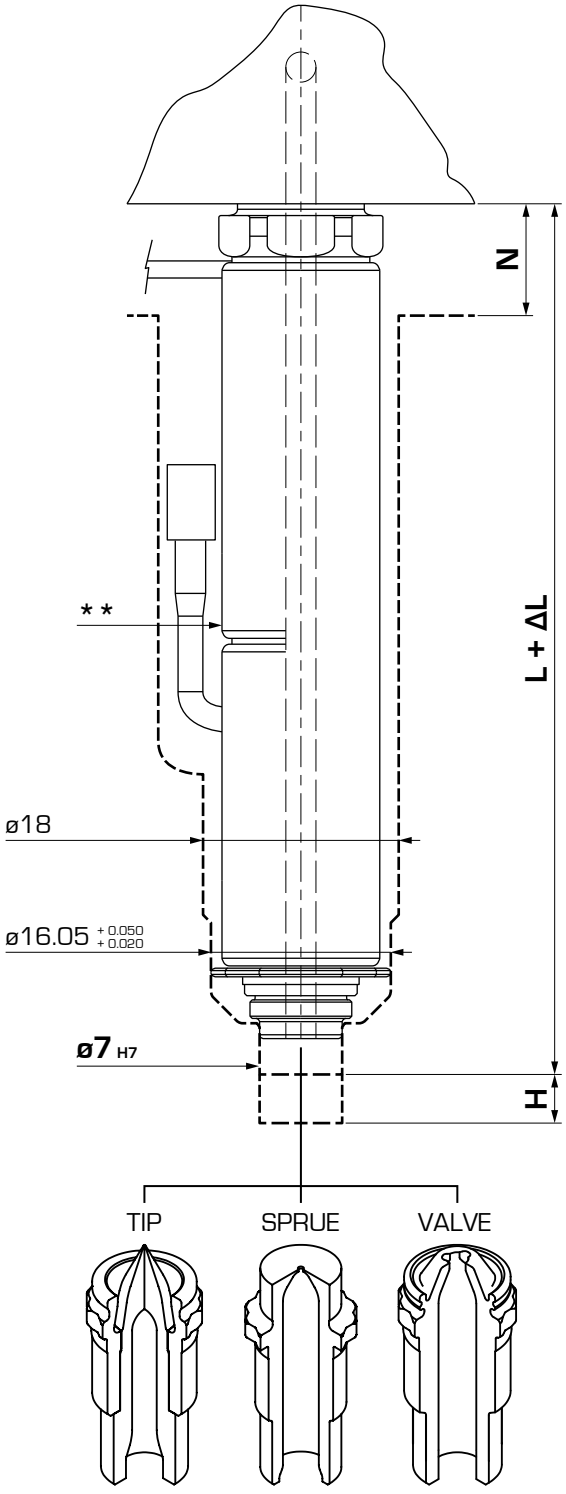
Nr. Der Einspritzpunkte No. of injection point	PXX
2	**002**
3	**003**
4	**004**



M01 Düse / Nozzle

Hinweis: Die Düsen Lange muss mindestens der halbe Abstand Zwischen Düse und Zentrierung sein.

Note: the nozzle length must be greater than the half distance between the manifold fulcrum and nozzle axis.



Düse Kennzahl:

Nozzle code: **M01-07-LXXX**

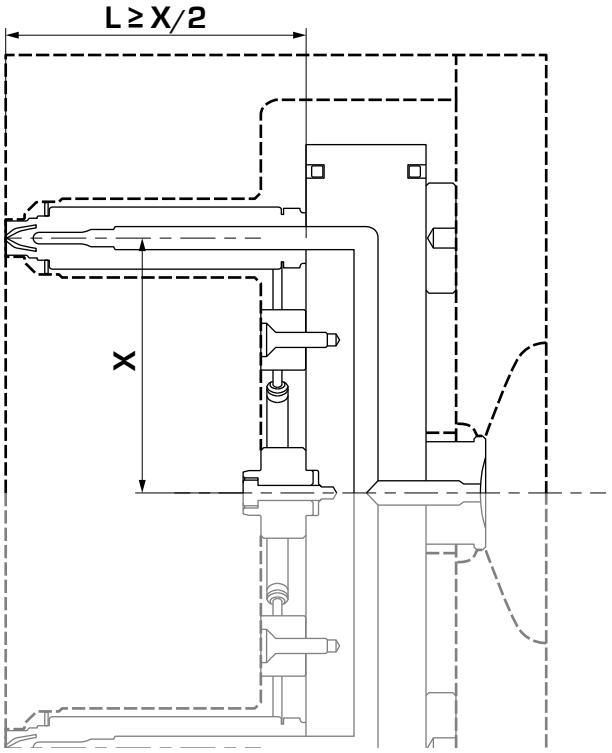
L mm	LXXX	N
60	**060**	pp. 18-19
80	**080**	pp. 18-19
100	**100**	pp. 18-19
*120	**120**	pp. 18-19
*140	**140**	pp. 18-19
**160	**160**	pp. 18-19
**180	**180**	pp. 18-19
**200	**200**	pp. 18-19

*Je nach Anwendung können zwei oder mehrere Heizungen verwendet warden. Kontaktieren Sie bitte unsere technische Abteilung. **Es ist von Vorteil zwei oder mehr Heizungen am Düsenkörper zu verwenden.

* We will delay the decision to use two or more heaters in the nozzle body according to the application. Please contact our technical department.
** It is necessary to use two or more heaters in the nozzle body.

ΔL = (Melt. Temp. - Mould Temp.) x 0.0000132 x L

Ex. : (250 - 50) x 0.0000132 x 100 = 0.264 mm



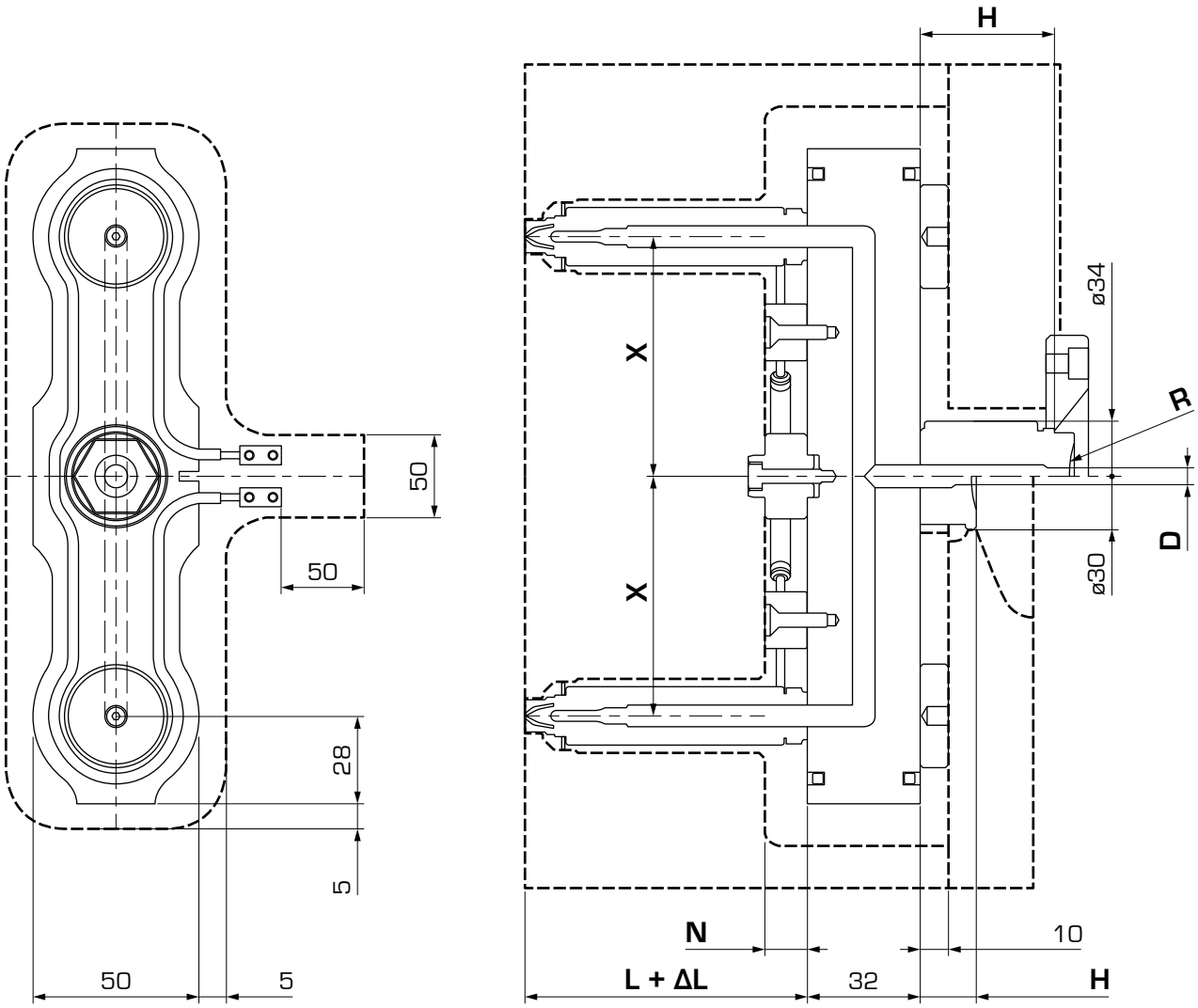
H01

Standardverteiler, 2 Fach gerade
Standard manifold, two drops in line

Hinweis: Bitte wenden Sie sich an unsere technische Abteilung erfordern unterschiedliche Maße.

Note: please contact our technical department if you require different dimensions.

Veteiler Kennzahl:
Manifold code: **H01-07-XX**



X mm	XX	N mm	H, D, R	L mm							
				60	80	100	120	140	160	180	200
50	**050**	10 (15)	pp. 21	●	●	●	●	●	●	●	●
62.5	**062**	10 (15)	pp. 21	●	●	●	●	●	●	●	●
75	**075**	10 (15)	pp. 21	●	●	●	●	●	●	●	●
87.5	**087**	10 (15)	pp. 21	●	●	●	●	●	●	●	●
100	**100**	10 (15)	pp. 21	●	●	●	●	●	●	●	●
112.5	**112**	10 (15)	pp. 21	●	●	●	●	●	●	●	●
125	**125**	10 (15)	pp. 21		●	●	●	●	●	●	●
137.5	**137**	10 (15)	pp. 21		●	●	●	●	●	●	●
150	**150**	10 (15)	pp. 21		●	●	●	●	●	●	●

() - optional

() - optional

H02

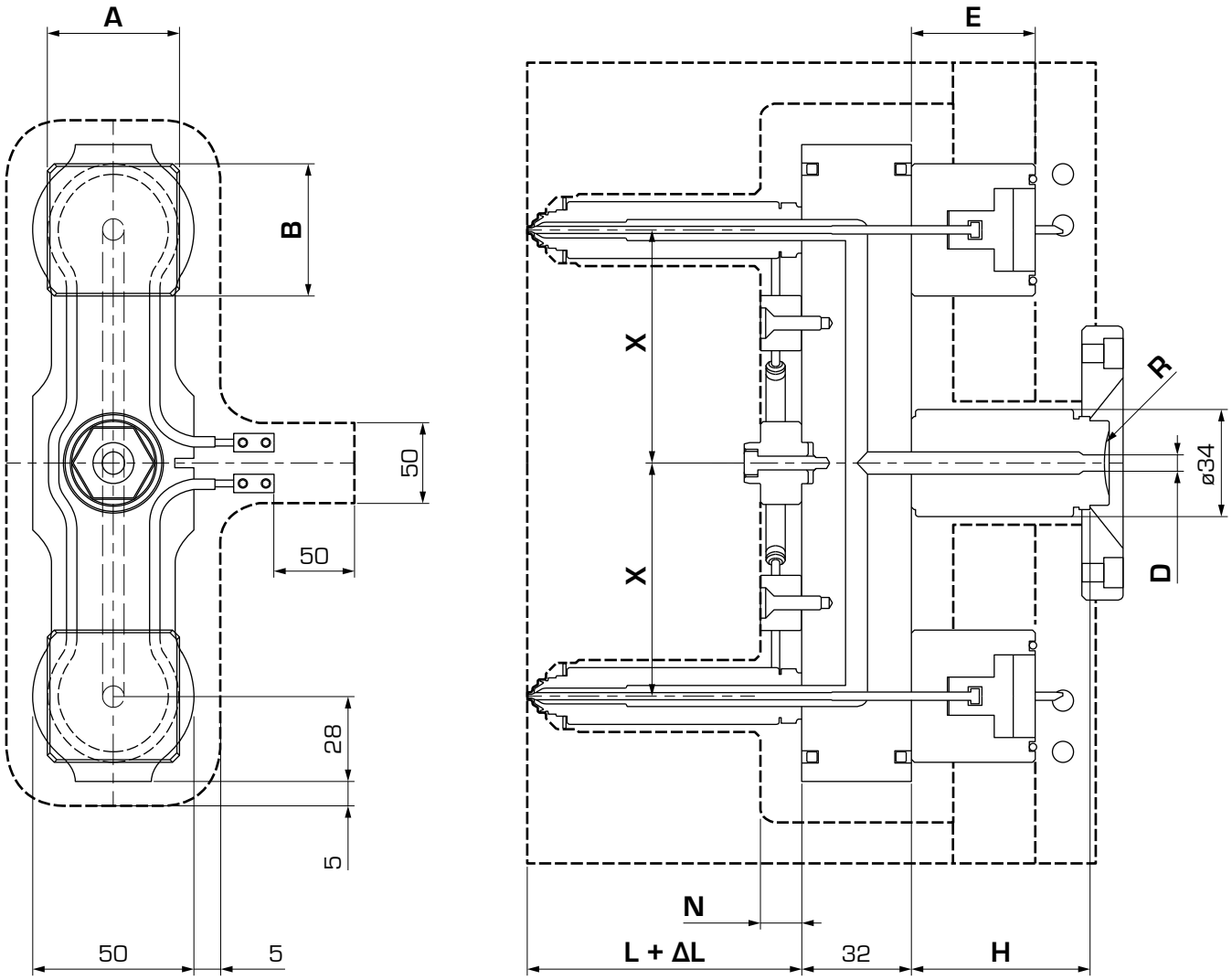
Standardverteiler, 2 Fach gerade Nadelverschluß iSystem SOV
Valve gate standard manifold, two drops in line

Hinweis: Bitte wenden Sie sich an unsere technische Abteilung erfordern unterschiedliche Maße.

Note: please contact our technical department if you require different dimensions.

Veteiler Kennzahl:

Manifold code: **H02-07-XX**



X mm	XX	N mm	A x B x E	H, D, R	L mm							
					60	80	100	120	140	160	180	200
50	**050**	10 (15)	pp. 20	pp. 21	●	●	●	●	●	●	●	●
62.5	**062**	10 (15)	pp. 20	pp. 21	●	●	●	●	●	●	●	●
75	**075**	10 (15)	pp. 20	pp. 21	●	●	●	●	●	●	●	●
87.5	**087**	10 (15)	pp. 20	pp. 21	●	●	●	●	●	●	●	●
100	**100**	10 (15)	pp. 20	pp. 21	●	●	●	●	●	●	●	●
112.5	**112**	10 (15)	pp. 20	pp. 21	●	●	●	●	●	●	●	●
125	**125**	10 (15)	pp. 20	pp. 21		●	●	●	●	●	●	●
137.5	**137**	10 (15)	pp. 20	pp. 21		●	●	●	●	●	●	●
150	**150**	10 (15)	pp. 20	pp. 21		●	●	●	●	●	●	●

() - optional

() - optional

SOV-01

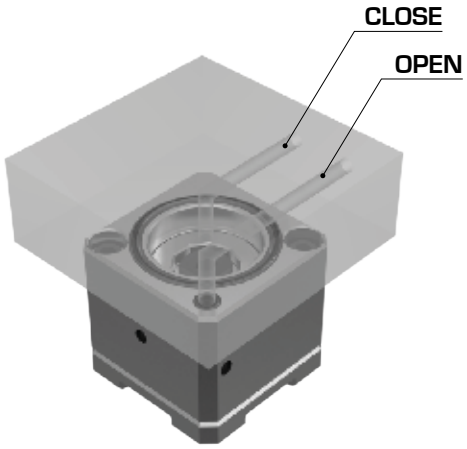
Nadelverschluß Gruppe TOP
Valve gate Serie Top

Hinweis: Mindestdruck von 8 bar, maximal 20 bar. Die Verwendung eines Druckverstärker wird empfohlen.

Note: minimum pressure of 8 Bar, maximum 20 Bar. We recommend using a pressure booster

SOV Kennzahl:

SOV code: **SOV-01**



Nadelverschluß Typ Valve Gate Type	A mm	B mm	E mm
Top	48	48	45

Das Verschlusssystem ist für die pneumatische Zuführung mittels spezieller Löcher in der Rückplatte ausgelegt. Zwischen Platte und Befülleinheit einen Abstand von 0.1 mm einhalten.
Es ist auch erforderlich, einen Stromkreis in der Nähe des Kontaktbereichs des Zylinders einzurichten.

The closing system is design for pneumatic power through specific holes on the rear plate. Provide a gap of 0.1 mm between the plate and the valve gate.
It is also necessary to set up a circuit of conditioning near the contact area of the cylinder.

SOV-07

Nadelverschluß Gruppe mit Deckel
Valve gate with cover plate

Hinweis: Pneumatische Bewegung - mindestens 8 Bar
Hydraulikbewegung - maximal 35 Bar

Note: pneumatic handling - minimun pressure 8 Bar
hydraulic handling - maximun pressure 35 Bar

SOV Kennzahl:

SOV code: **SOV-07**

Nadelverschluß Typ Valve Gate Type	A mm	B mm	E mm
Pneumatik - Hydraulik Pneumatic - Hydraulic	48	48	61

Das Schließsystem ist sowohl für die pneumatische als auch für die hydraulische Beschickung ausgelegt. Gleiches wird durch spezielle Aufsätze auf einer Platte außerhalb der Form gesteuert.
Es ist erforderlich, einen Stromkreis in der Nähe des Kontaktbereichs des Zylinders einzurichten.

The closing system si designed for both pneumatic and hydraulic power which is controlled through special connections on an external plate of the mould.
It is also necessary to set up a circuit of conditioning near the contact area of the cylinder.

K01 Einspritz Buchse
Injection bushing

Einspritz Buchse Kennzahl:
Inlet bushing code: **K01-HXX-RXX**

D	Gewinde Thread	H mm	HXX
6	M24	20	**020**

R mm	RXX
0	**R01**
15	**R02**
40	**R03**

Fase Chamfer	RXX
70°	**SM70**

K01 Einspritz Buchse beheizt
Injection bushing with heater

Einspritz Buchse Kennzahl:
Inlet bushing code: **K01-HXX-RXX**

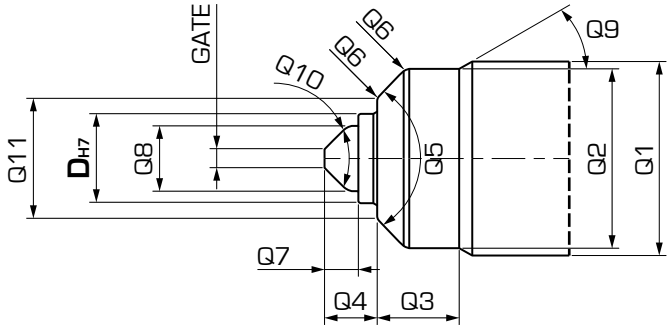
D	Gewinde Thread	H mm	HXX
6	M24	40	**040**
6	M24	65	**065**
6	M24	90	**090**

R mm	RXX
0	**R01**
15	**R02**
40	**R03**

Fase Chamfer	RXX
70°	**SM70**

T01 Topless T

Spitze Kennzahl:
Tip code: **T01-07-TXX-G-Tip**



TXX	Material der Endkappe End-Cap Material	Gate mm	Tip	
			C	K
100	Stahl Steel	0.6 ÷ 2.0	•	•
200	Titan Titanium		•	•

C: amorphe und teilkristalline Materialien
K: kristalline Materialien, gefüllte Materialien

C: amorphous and semi-crystalline materials
K: crystalline materials, filled materials

Endkappe aus Stahl: amorphe und teilkristalline Werkstoffe
Endkappe aus Titan: kristalline Materialien, gefüllte Materialien

End-Cap Steel: amorphous and semi-crystalline materials
End-Cap Titanium: crystalline materials, filled materials

Ø Gate mm G														
0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
06	07	08	09	10	11	12	13	14	15	16	17	18	19	20

D mm	Q1 mm	Q2 mm	Q3 mm	Q4 mm	Q5 °	Q6 mm	Q7 mm	Q8 mm	Q9 °	Q10 °	Q11 mm
7	18	16.05	11	5	90	R1	3	5	30	90	10.05

Bestellungsbeispiel: T01-07-200-10-C

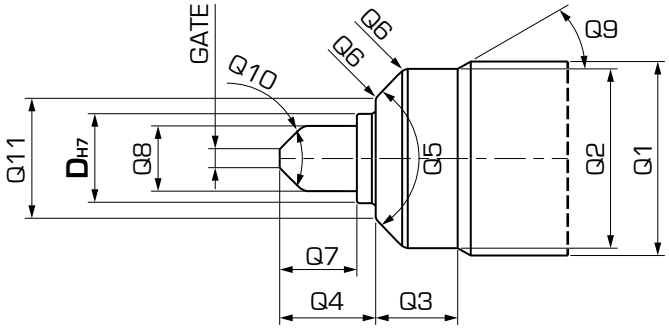
Beschreibung:
Topless T Spitze, Serie iSystem7, Titan Endkappe, Gate Ø 1.0 mm, Kupfer Spitze

Example of purchasing order: T01-07-200-10-C

Description:
Topless T tip, iSystem7 series, Titanium End-Cap with standard tip, Gate Ø 1.0 mm, Tip material: copper

T13 Topless T Verlängert
Extended Topless T

Spitze Kennzahl:
Tip code: **T13-07-TXX-G-Tip**



TXX	T	Material der Endkappe End-Cap Material	XX	Verlängerung Extension	Gate mm	Tip	
						C	K
103	1	Stahl Steel	03	+ 3 mm	0.6 ÷ 2.0	●	●
105			05	+ 5 mm		●	●
110			10	+10 mm		●	
203	2	Titan Titanium	03	+ 3 mm		●	●
205			05	+ 5 mm		●	●
210			10	+10 mm		●	

C: amorphe und teilkristalline Materialien
K: kristalline Materialien, gefüllte Materialien

C: amorphous and semi-crystalline materials
K: crystalline materials, filled materials

Endkappe aus Stahl: amorphe und teilkristalline Werkstoffe
Endkappe aus Titan: kristalline Materialien, gefüllte Materialien

End-Cap Steel: amorphous and semi-crystalline materials
End-Cap Titanium: crystalline materials, filled materials

Ø Gate mm G														
0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
06	07	08	09	10	11	12	13	14	15	16	17	18	19	20

D mm	Q1 mm	Q2 mm	Q3 mm	Q4 mm	Q5 °	Q6 mm	Q7 mm	Q8 mm	Q9 °	Q10 °	Q11 mm
7	18	16.05	11	8	90	R1	6	5	30	90	10.05
7	18	16.05	11	10	90	R1	8	5	30	90	10.05
7	18	16.05	11	15	90	R1	13	5	30	90	10.05

Bestellungsbeispiel: T13-07-105-11-C

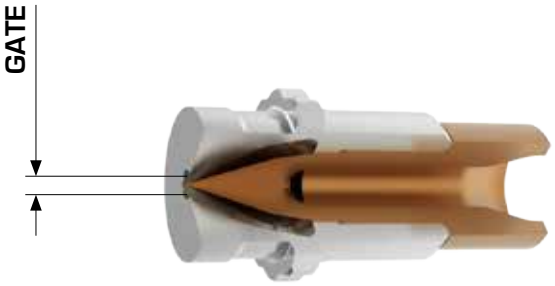
Beschreibung:
Verlängte Topless T Spitze, Serie iSystem7,
Stahl Endkappe +5 mm, Gate Ø 1.1 mm, Kupfer Spitze

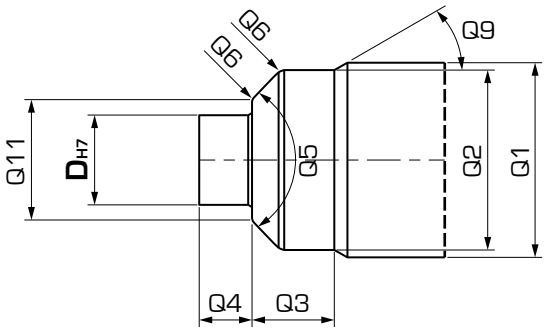
Example of purchasing order: T13-07-105-11-C

Description:
Extended Topless T tip, iSystem7 series, steel End-Cap
with 5 mm extension, Gate Ø 1.1 mm, Tip material: copper

T02 Open T

Spitze Kennzahl:
Tip code: **T02-07-TXX-G-Tip**





TXX	Material der Endkappe End-Cap Material	Ø Gate mm	G	Tip	
				C	K
100	Stahl Steel	1.5	15	●	●
		2.0	20	●	●

C: amorphe und teilkristalline Materialien
K: kristalline Materialien, gefüllte Materialien

C: amorphous and semi-crystalline materials
K: crystalline materials, filled materials

D mm	Q1 mm	Q2 mm	Q3 mm	Q4 mm	Q5 °	Q6 mm	Q9 °	Q11 mm
7	18	16.05	15	5	90	R1	30	10.05

Bestellungsbeispiel: T02-07-100-20-C

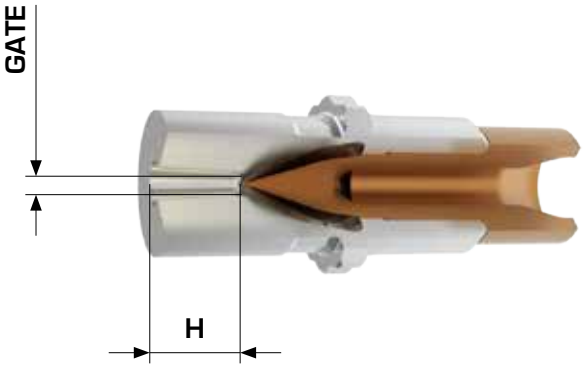
Beschreibung:
Open T Spitze, Serie iSystem7, Stahl Endkappe,
Gate Ø 2.0 mm, Kupfer Spitze

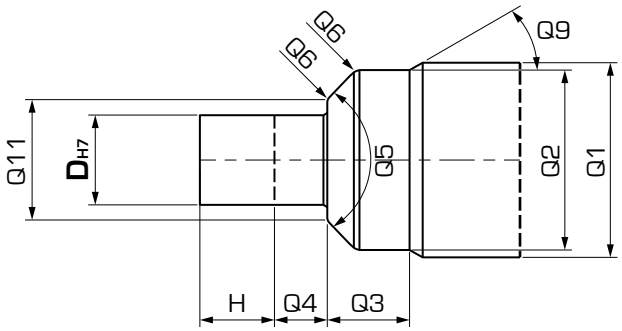
Example of purchasing order: T02-07-100-20-C

Description:
Open T tip, iSystem7 series, steel End-Cap
with Gate Ø 2.0 mm, Tip material: copper

T03 Open XST

Spitze Kennzahl:
Tip code: **T03-07-TXX-G-Tip**





TXX	Material der Endkappe End-Cap Material	H	XX	Ø Gate mm	G	Tip	
						C	K
105	Stahl Steel	5	**05**	1.5	**15**	●	●
				2.0	**20**	●	●
				2.5	**25**	●	●

C: amorphe und teilkristalline Materialien
K: kristalline Materialien, gefüllte Materialien

C: amorphous and semi-crystalline materials
K: crystalline materials, filled materials

D mm	H mm	Q1 mm	Q2 mm	Q3 mm	Q4 mm	Q5 °	Q6 mm	Q9 °	Q11 mm
7	5	18	16.05	20	5	90	R1	30	10.05

Bestellungsbeispiel: T03-07-105-25-C

Beschreibung:
Open XST Spitze, Serie iSystem7, Stahl Endkappe,
Gate Ø 2.5 mm, Kupfer Spitze

Example of purchasing order: T03-07-105-25-C

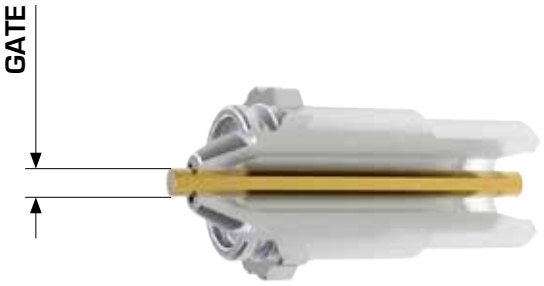
Description:
Open XST tip, iSystem7 series, steel End-Cap
with Gate Ø 2.5 mm, Tip material: copper

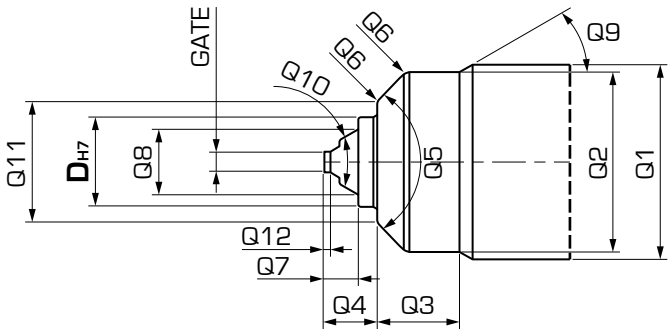
T07 Topless SO

Hinweis: Für unterschiedlich Anwendungen, kontaktieren Sie bitte unsere technische Abteilung.

Note: please contact our technical department for other applications.

Spitze Kennzahl:
Tip code: **T07-07-TXX-G**





TXX	Material der Endkappe End-Cap Material	Ø Gate mm	G
100	Stahl Steel	1.5	**15**

Endkappe aus Stahl: amorphe und teilkristalline Werkstoffe

End-Cap Steel: amorphous and semi-crystalline materials

D mm	Q1 mm	Q2 mm	Q3 mm	Q4 mm	Q5 °	Q6 mm	Q7 mm	Q8 mm	Q9 °	Q10 °	Q11 mm	Q12 mm
7	18	16.05	10	5	90	R1	3	5.5	30	60	10.05	1

Bestellungsbeispiel: T07-07-100-15

Beschreibung:
Topless SO Spitze, Serie iSystem7, Stahl Endkappe, Gate Ø 1.5 mm

Example of purchasing order: T07-07-100-15

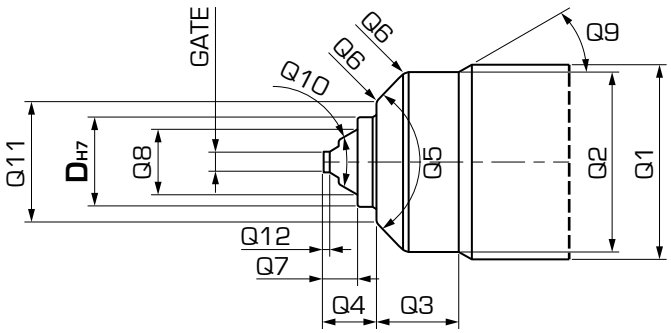
Description:
Topless SO tip, iSystem7 series, steel End-Cap with Gate Ø 1.5 mm

T10 Topless SO mit Zentrierung / Topless SO with centering

Hinweis: Für unterschiedlich Anwendungen, kontaktieren Sie bitte unsere technische Abteilung.

Note: please contact our technical department for other applications.

Spitze Kennzahl: / Tip code: **T10-07-TXX-G**



TXX	Material der Endkappe End-Cap Material	Gate mm
100	Stahl Steel	0.8 ÷ 1.5

Endkappe aus Stahl: amorphe und teilkristalline Werkstoffe

End-Cap Steel: amorphous and semi-crystalline materials

Ø Gate mm G							
0.8	**0.9**	**1.0**	**1.1**	**1.2**	**1.3**	**1.4**	**1.5**
08	**09**	**10**	**11**	**12**	**13**	**14**	**15**

D mm	Q1 mm	Q2 mm	Q3 mm	Q4 mm	Q5 °	Q6 mm	Q7 mm	Q8 mm	Q9 °	Q10 °	Q11 mm	Q12 mm
7	18	16.05	10	5	90	R1	3	5.5	30	60	10.05	1

Bestellungsbeispiel: T10-07-100-10

Beschreibung:
Topless SO mit Zentrierung Spitze, Serie iSystem7,
Stahl Endkappe, Gate Ø 1.0 mm

Example of purchasing order: T10-07-100-10

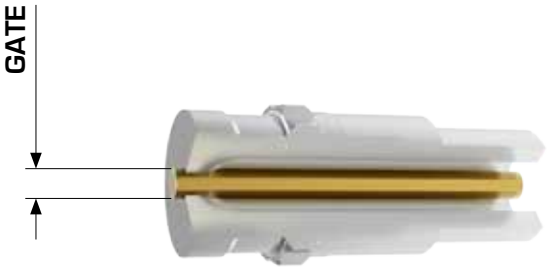
Description:
Topless SO with centering tip, iSystem7 series,
steel End-Cap with Gate Ø 1.0 mm

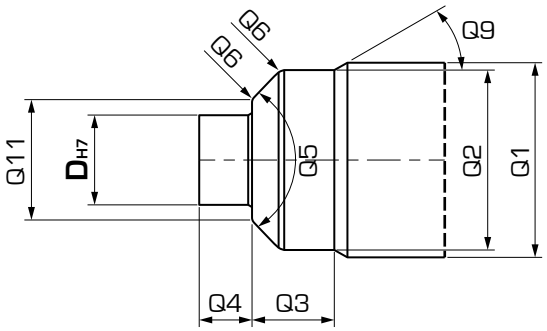
T08 Open SO

Hinweis: Für unterschiedlich Anwendungen, kontaktieren Sie bitte unsere technische Abteilung.

Note: please contact our technical department for other applications.

Spitze Kennzahl:
Tip code: **T08-07-TXX-G**





TXX	Material der Endkappe End-Cap Material	Ø Gate mm	G
100	Stahl Steel	1.5	**15**

D mm	Q1 mm	Q2 mm	Q3 mm	Q4 mm	Q5 °	Q6 mm	Q9 °	Q11 mm
7	18	16.05	15	5	90	R1	30	10.05

Bestellungsbeispiel: T08-07-100-15

Beschreibung:
Open SO Spitze, Serie iSystem7, Stahl Endkappe,
Gate Ø 1.5 mm

Example of purchasing order: T08-07-100-15

Description:
Open SO tip, iSystem7 series, steel End-Cap
with Gate Ø 1.5 mm

T11 Topless SOP

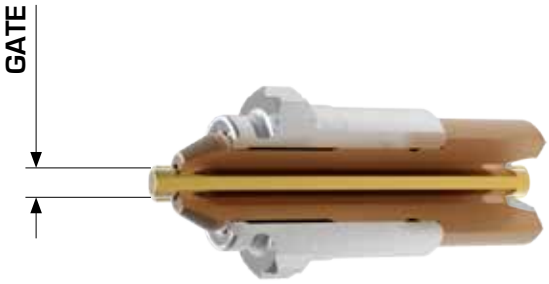
Hinweis: Für unterschiedlich Anwendungen, kontaktieren Sie bitte unsere technische Abteilung.

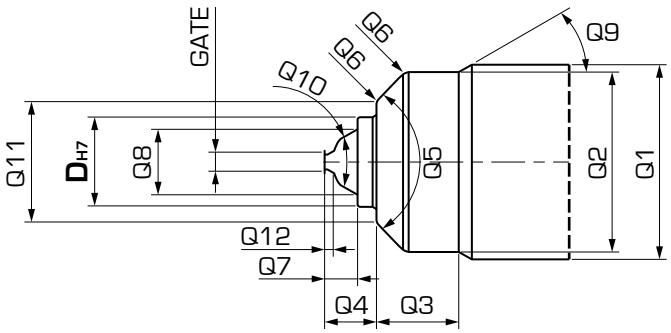
Note: please contact our technical department for other applications.

Spitze Kennzahl:

Tip code:

T11-07-TXX-G-Tip





TXX	Material der Endkappe End-Cap Material	Gate mm	Tip	
			C	K
200	Titan Titanium	0.8 ÷ 1.5	●	●

C: amorphe und teilkristalline Materialien
K: kristalline Materialien, gefüllte Materialien

Endkappe aus Titan: kristalline Materialien, gefüllte Materialien

C: amorphous and semi-crystalline materials
K: crystalline materials, filled materials

End-Cap Titanium: crystalline materials, filled materials

Ø Gate mm G							
0.8	**0.9**	**1.0**	**1.1**	**1.2**	**1.3**	**1.4**	**1.5**
08	**09**	**10**	**11**	**12**	**13**	**14**	**15**

D mm	Q1 mm	Q2 mm	Q3 mm	Q4 mm	Q5 °	Q6 mm	Q7 mm	Q8 mm	Q9 °	Q10 °	Q11 mm	Q12 mm
7	18	16.05	10	5	90	R1	3	5.5	30	60	10.05	1

Bestellungsbeispiel: T11-07-200-15-C

Beschreibung:
Topless SOP Spitze, Serie iSystem7, Titan Endkappe, Gate Ø 1.5 mm, Kupfer Spitze

Example of purchasing order: T11-07-200-15-C

Description:
Topless SOP tip, iSystem7 series, titanium End-Cap with gate Ø 1.5 mm, Tip material: copper