

BXTG13



smart hot runner solutions

www.mastip.com

Tip and Material Grade Availability

Tip (Code)	G1	G2	G5
Multi-hole Torpedo Tip (X 13 TT)	✓	✓	✓
One-hole Torpedo Tip (X 13 IT)	✓	✓	✓
Open Tip (X 13 OT)	✓	✗	✗

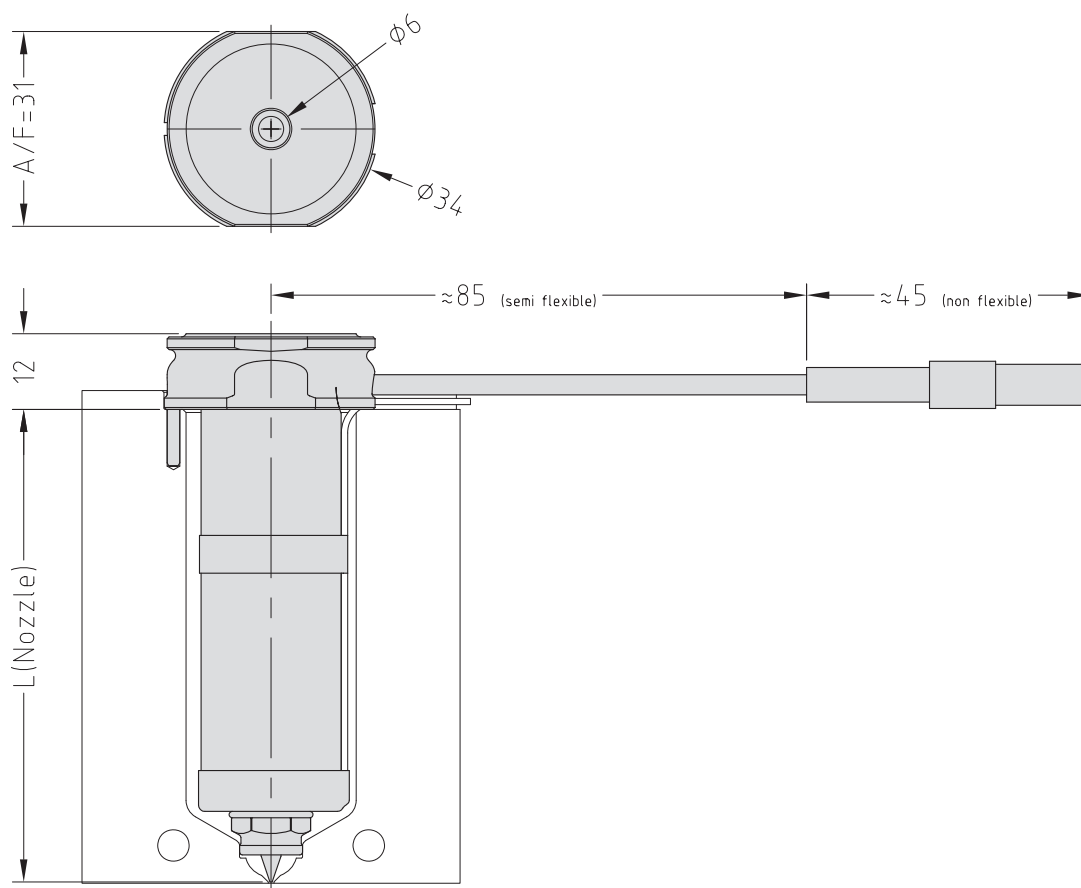
To order a nozzle assembly:

Provide the Nozzle Code + Grade
 (Order example: BXIT13175 G5)

To order a tip:

Provide the Tip Code + Grade
 (Order example: X 13 IT G5)

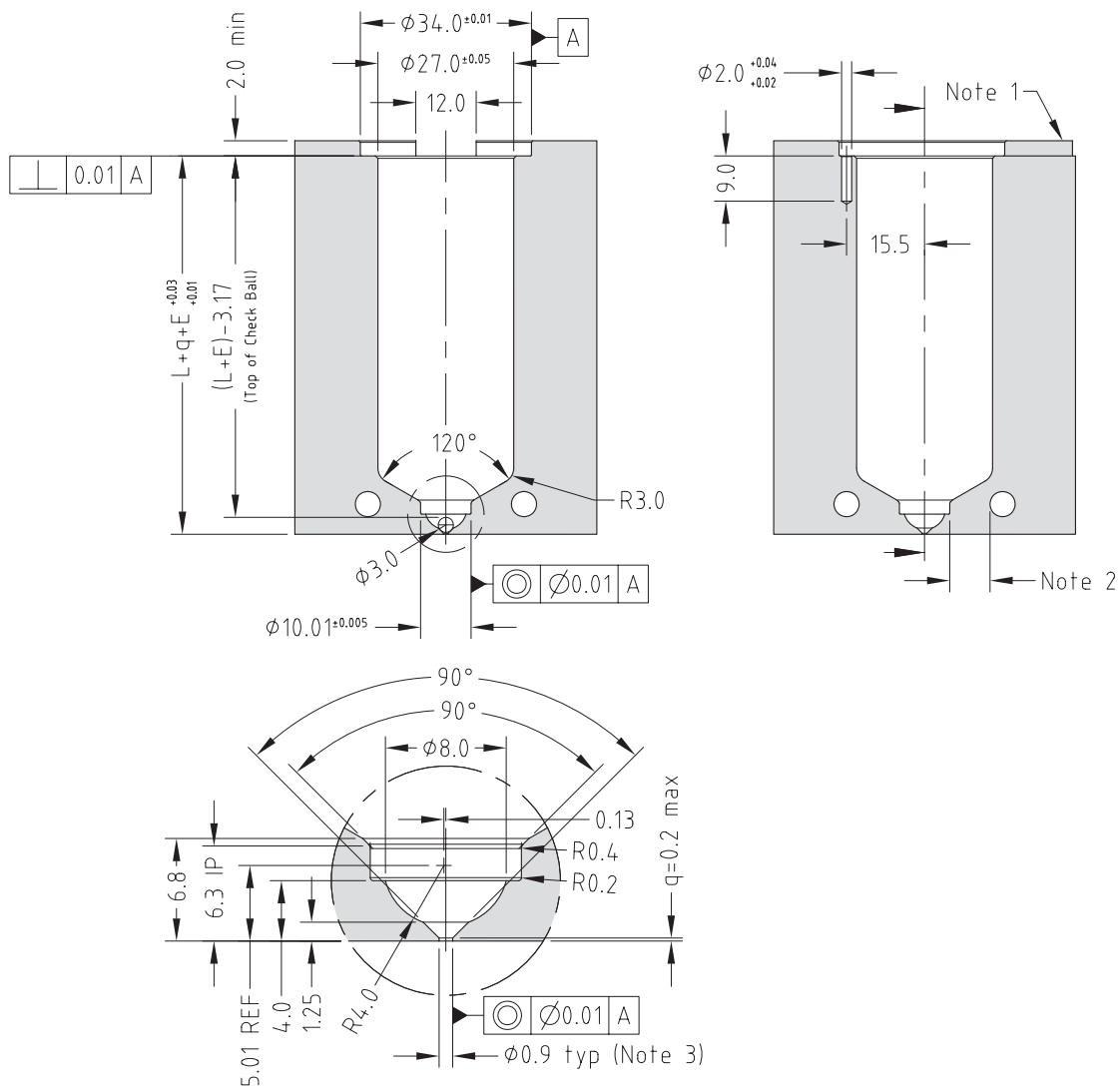
Nozzle Dimensions



Multi-Hole Torpedo Nozzle Code	One-hole Torpedo Nozzle Code	Open Tip Nozzle Code	L	$E @ \Delta T = 200C$	$E @ \Delta T = 250C$
BXTT13045	BXIT13045	BXOT13045	45	0.12	0.15
BXTT13055	BXIT13055	BXOT13055	55	0.15	0.18
BXTT13065	BXIT13065	BXOT13065	65	0.17	0.21
BXTT13075	BXIT13075	BXOT13075	75	0.20	0.25
BXTT13095	BXIT13095	BXOT13095	95	0.25	0.31
BXTT13115	BXIT13115	BXOT13115	115	0.30	0.38
BXTT13145	BXIT13145	BXOT13145	145	0.38	0.48
BXTT13175	BXIT13175	BXOT13175	175	0.46	0.58

Nozzle Fitment and Gate Dimensions

$$E = L \times 0.0000132 \times (\text{nozzle temp. } ^\circ\text{C} - \text{mould temp. } ^\circ\text{C})$$



Note

1. Wire channel to suit mould.
 2. Gate cooling is critical for correct operation and gate quality. → See Cooling section in Technical Specifications.
 3. Modify gate diameter and land to suit the part. → See Gate Modifications in Technical Specifications.
- * Minimum strength (σ_y) of nozzle plate 800MPa.

Tip and Material Grade Availability

Tip (Code)	G1	G2	G5
Multi-hole Torpedo Tip (X 13 TT)	✓	✓	✓
One-hole Torpedo Tip (X 13 IT)	✓	✓	✓
Open Tip (X 13 OT)	✓	×	×

Bush Nut Options

- BN - Standard bush nut
- BE - Full-contact bush nut*

The nozzle codes listed to the right are for nozzle assemblies with a standard bush nut. To order a full-contact bush nut, replace the BN in the code with BE.

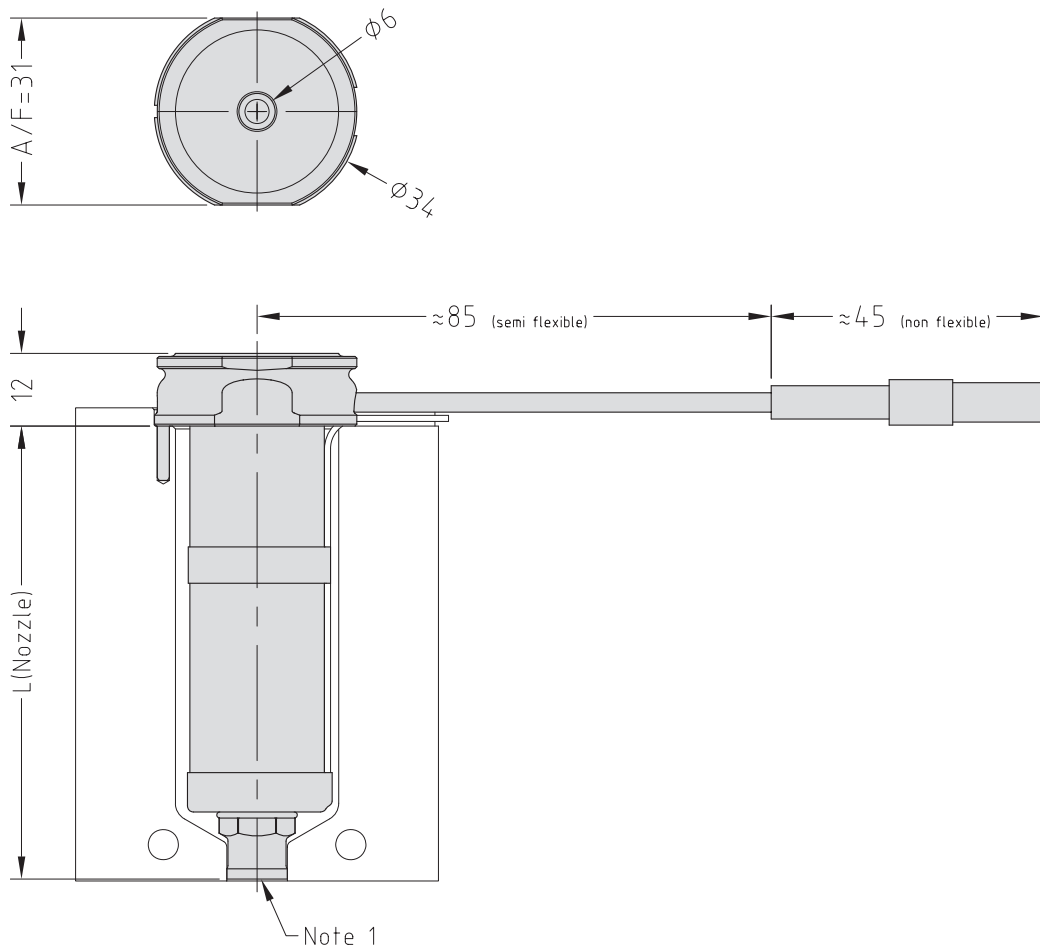
To order a nozzle assembly:

Provide the Nozzle Code + Grade
(Order example: BXIBN13175 G5)

To order a tip:

Provide the Tip Code + Grade
(Order example: X 13 IT G5)

Nozzle Dimensions

**Note**

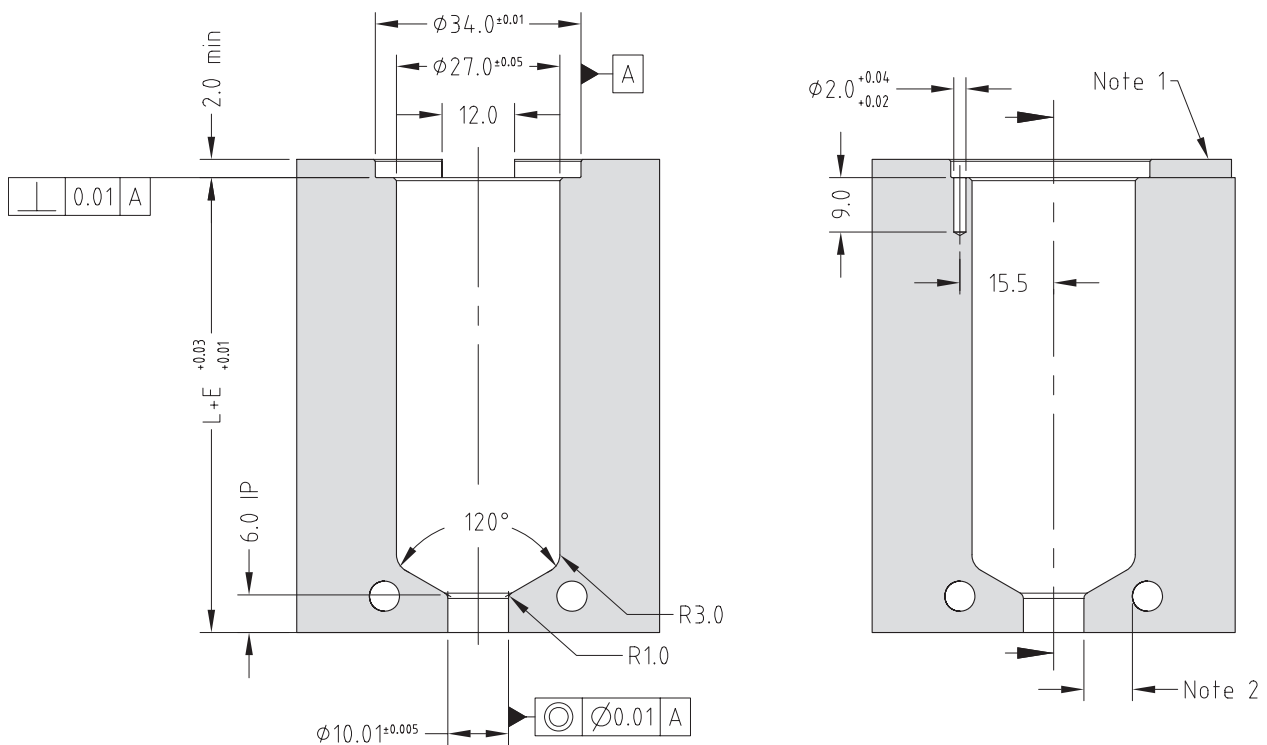
1. Modify the contact area and the bush nut to suit the application.

→ See Gate Modifications and Cooling sections in the Technical Specifications.

Multi-hole Torpedo Tip Nozzle Code	One-hole Torpedo Tip Nozzle Code	Open Tip Nozzle Code	L	$E\Delta T$ =200C	$E\Delta T$ =250C
BXTBN13045	BXIBN13045	BXOBN13045	45.2	0.12	0.15
BXTBN13055	BXIBN13055	BXOBN13055	55.2	0.15	0.18
BXTBN13065	BXIBN13065	BXOBN13065	65.2	0.17	0.22
BXTBN13075	BXIBN13075	BXOBN13075	75.2	0.20	0.25
BXTBN13095	BXIBN13095	BXOBN13095	95.2	0.25	0.31
BXTBN13115	BXIBN13115	BXOBN13115	115.2	0.30	0.38
BXTBN13145	BXIBN13145	BXOBN13145	145.2	0.38	0.48
BXTBN13175	BXIBN13175	BXOBN13175	175.2	0.46	0.58

Nozzle Fitment and Gate Dimensions

$$E = L \times 0.0000132 \times (\text{nozzle temp. } ^\circ\text{C} - \text{mould temp. } ^\circ\text{C})$$



Note

1. Wire channel to suit mould.
 2. Gate cooling is critical for correct operation and gate quality. → See Cooling section in Technical Specifications.
 3. Modify gate diameter and land to suit the part. Supplied with $\emptyset 0.9$ → See Gate Modifications in Technical Specifications.
- * Minimum strength (σ_y) of nozzle plate 800MPa.

Tip and Material Grade Availability

Tip (Code)	G1	G2	G5
Multi-hole Torpedo Tip (X 13 TT)	✓	✓	✓
One-hole Torpedo Tip (X 13 IT)	✓	✓	✓
Open Tip (X 13 OT)	✓	×	×

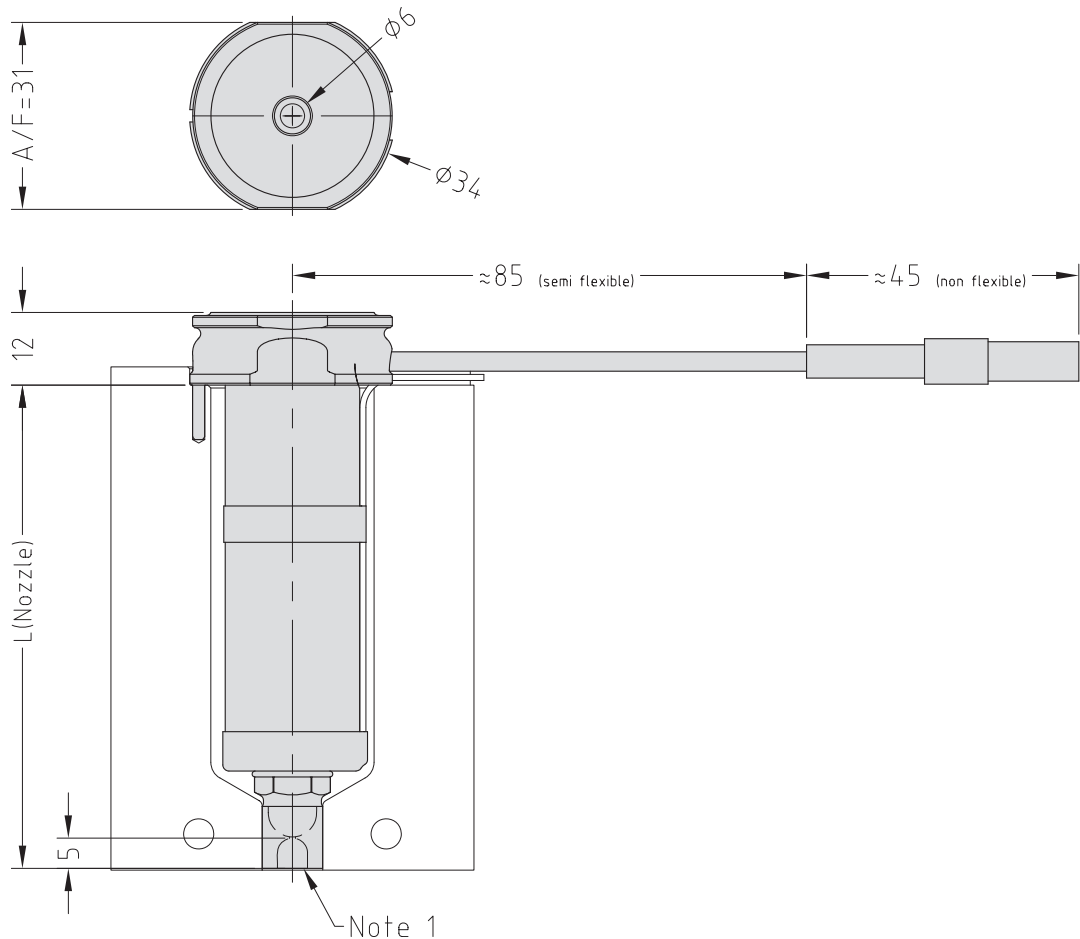
To order a nozzle assembly:

Provide the Nozzle Code + Grade
(Order example: BXISN13175 G5)

To order a tip:

Provide the Tip Code + Grade
(Order example: X 13 IT G5)

Nozzle Dimensions

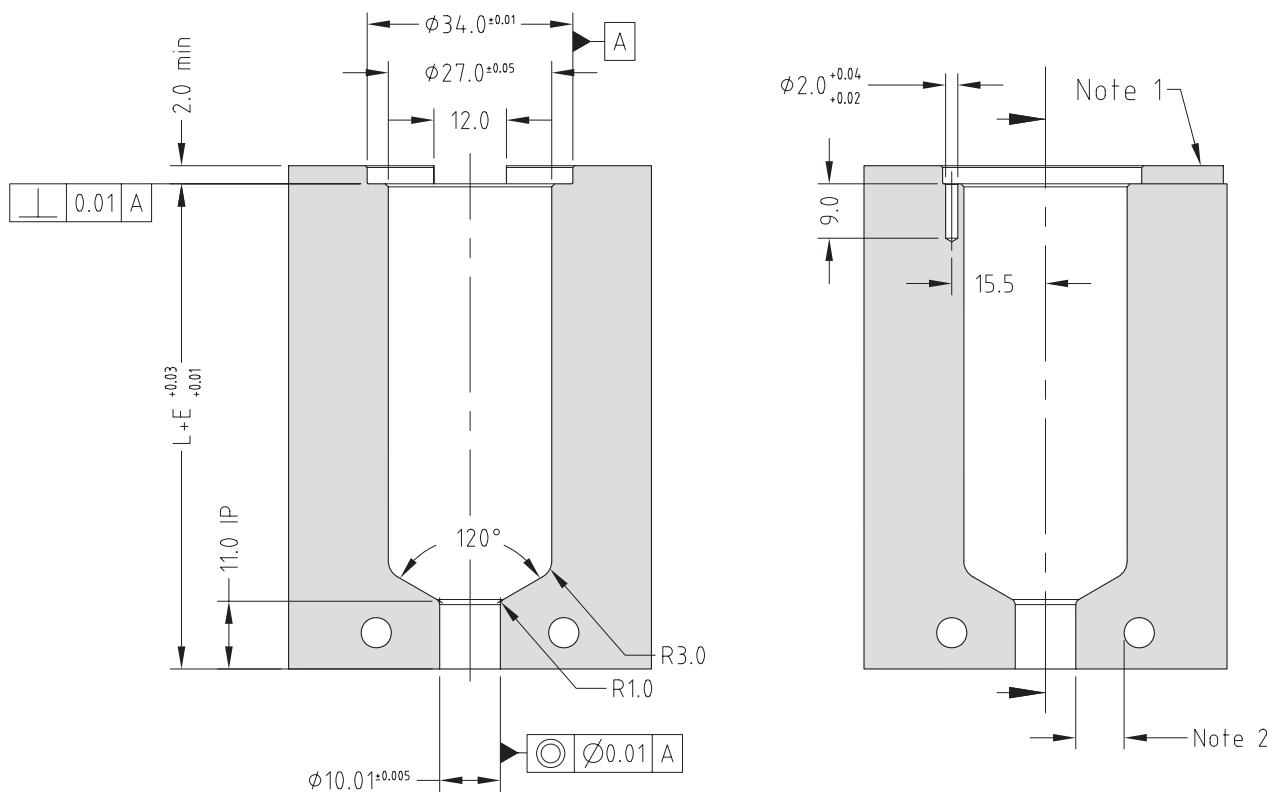
**Note**

1. Modify the contact area and the sprue nut to suit the application.
- See Gate Modifications and Cooling sections in the Technical Specifications.

Multi-hole Torpedo Tip Nozzle Code	One-hole Torpedo Tip Nozzle Code	Open Tip Nozzle Code	L	$E @ \Delta T = 200C$	$E @ \Delta T = 250C$
BXTSN13045	BXISN13045	BXOSN13045	50.2	0.13	0.17
BXTSN13055	BXISN13055	BXOSN13055	60.2	0.16	0.20
BXTSN13065	BXISN13065	BXOSN13065	70.2	0.19	0.23
BXTSN13075	BXISN13075	BXOSN13075	80.2	0.22	0.26
BXTSN13095	BXISN13095	BXOSN13095	100.2	0.26	0.33
BXTSN13115	BXISN13115	BXOSN13115	120.2	0.32	0.40
BXTSN13145	BXISN13145	BXOSN13145	150.2	0.40	0.50
BXTSN13175	BXISN13175	BXOSN13175	180.2	0.48	0.59

Nozzle Fitment and Gate Dimensions

$$E = L \times 0.0000132 \times (\text{nozzle temp. } ^\circ\text{C} - \text{mould temp. } ^\circ\text{C})$$



Note

1. Wire channel to suit mould.
 2. Gate cooling is critical for correct operation and gate quality. → See Cooling section in Technical Specifications.
 3. Modify gate diameter and land to suit the part. Supplied with $\emptyset 0.9$ → See Gate Modifications in Technical Specifications.
- * Minimum strength (σ_y) of nozzle plate 800MPa.

Tip and Material Grade Availability

Tip (Code)	G1	G2	G5
Multi-hole Torpedo Tip (X 13 TT)	✓	✓	✓
One-hole Torpedo Tip (X 13 IT)	✓	✓	✓
Open Tip (X 13 OT)	✓	×	×

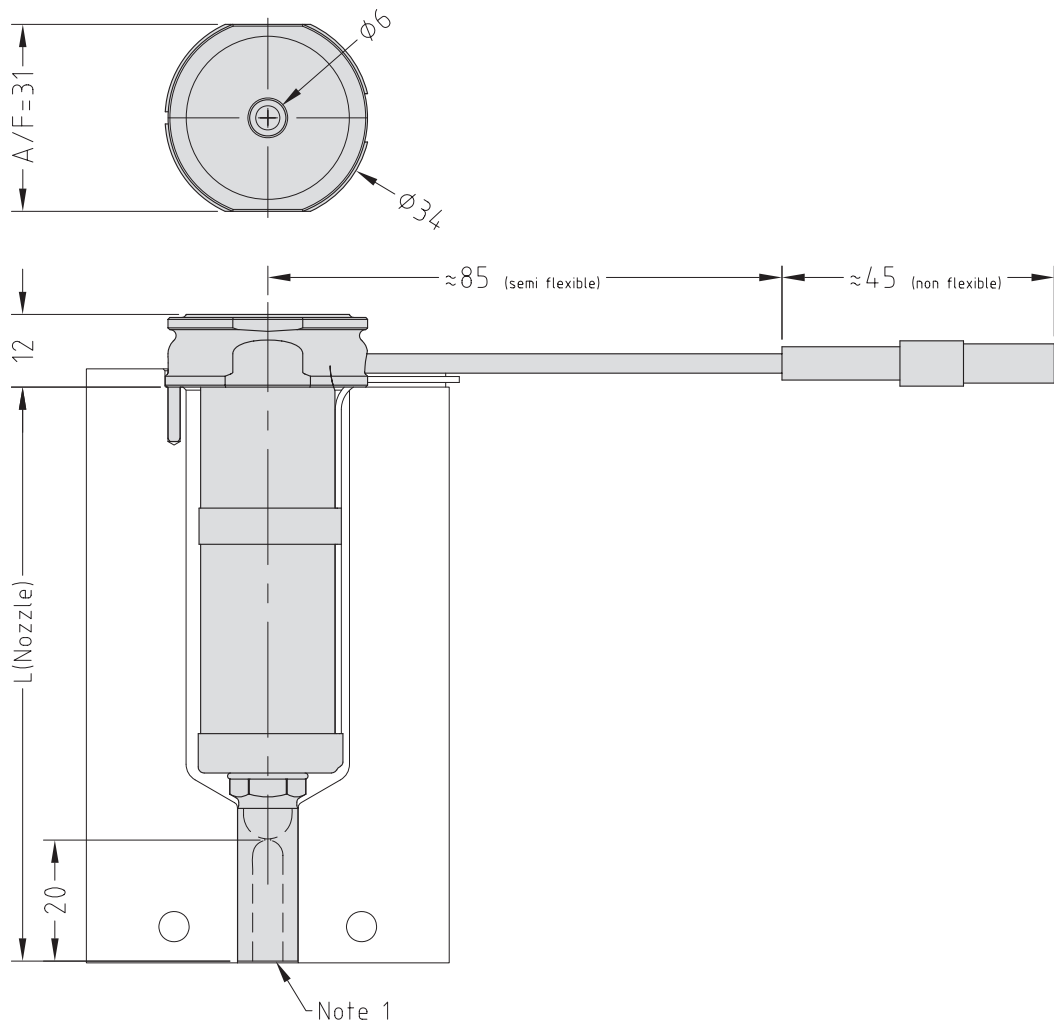
To order a nozzle assembly:

Provide the Nozzle Code + Grade
(Order example: BXISX13175 G5)

To order a tip:

Provide the Tip Code + Grade
(Order example: X 13 IT G5)

Nozzle Dimensions

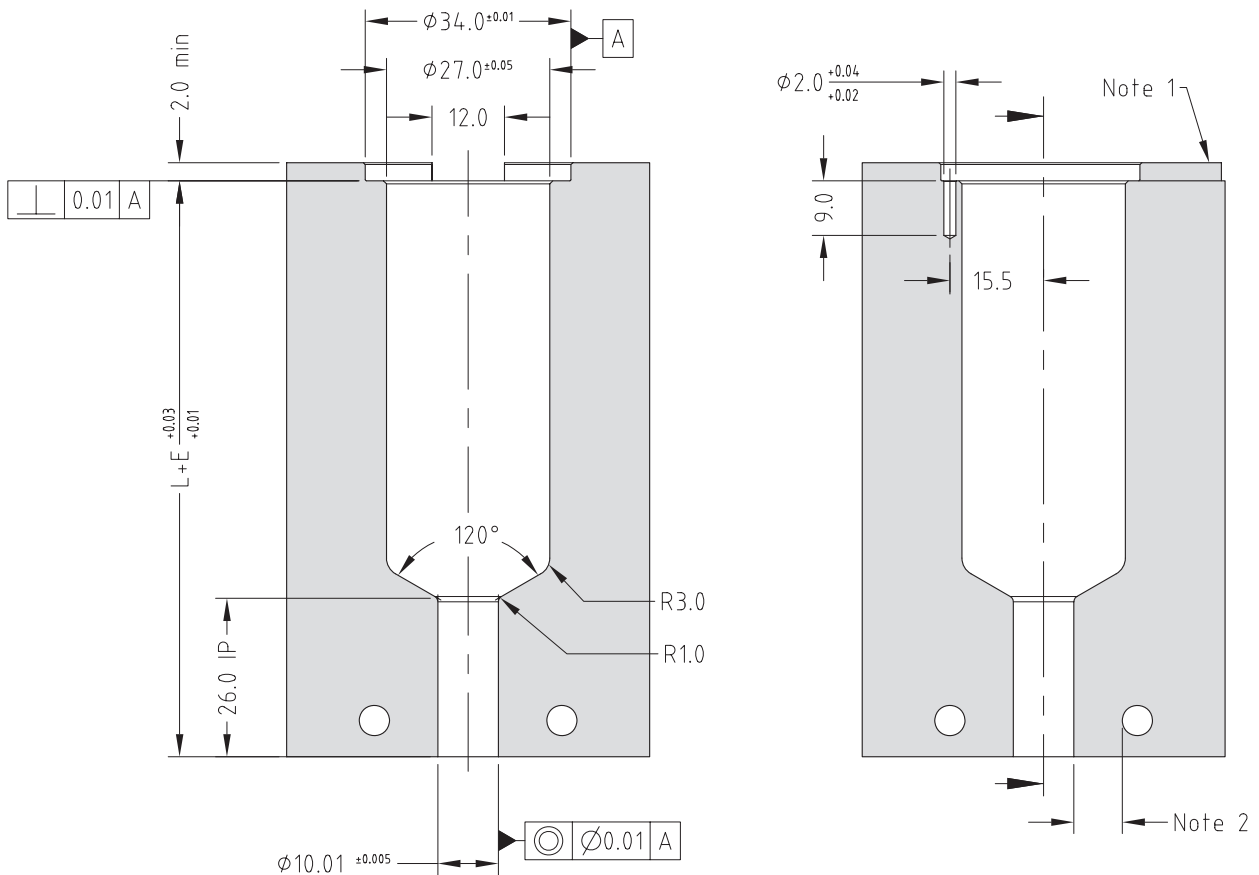
**Note**

1. Modify the contact area and the sprue nut to suit the application.
→ See Gate Modifications and Cooling sections in the Technical Specifications.

Multi-hole Torpedo Tip Nozzle Code	One-hole Torpedo Tip Nozzle Code	Open Tip Nozzle Code	L	$E @ \Delta T = 200C$	$E @ \Delta T = 250C$
BXTSX13045	BXISX13045	BXOSX13045	65.2	0.17	0.22
BXTSX13055	BXISX13055	BXOSX13055	75.2	0.20	0.25
BXTSX13065	BXISX13065	BXOSX13065	85.2	0.23	0.28
BXTSX13075	BXISX13075	BXOSX13075	95.2	0.25	0.31
BXTSX13095	BXISX13095	BXOSX13095	115.2	0.30	0.38
BXTSX13115	BXISX13115	BXOSX13115	135.2	0.36	0.45
BXTSX13145	BXISX13145	BXOSX13145	165.2	0.44	0.55
BXTSX13175	BXISX13175	BXOSX13175	195.2	0.52	0.64

Nozzle Fitment and Gate Dimensions

$$E = L \times 0.0000132 \times (\text{nozzle temp. } ^\circ\text{C} - \text{mould temp. } ^\circ\text{C})$$



Note

1. Wire channel to suit mould.
 2. Gate cooling is critical for correct operation and gate quality. → See Cooling section in Technical Specifications.
 3. Modify gate diameter and land to suit the part. Supplied with $\emptyset 0.9$ → See Gate Modifications in Technical Specifications.
- * Minimum strength (σ_y) of nozzle plate 800MPa.

Tip and Material Grade Availability

Tip (Code)	G1	G2	G5
Multi-hole Torpedo Tip (X 13 TT)	✓	✓	✓
One-hole Torpedo Tip (X 13 IT)	✓	✓	✓
Open Tip (X 13 OT)	✓	×	×

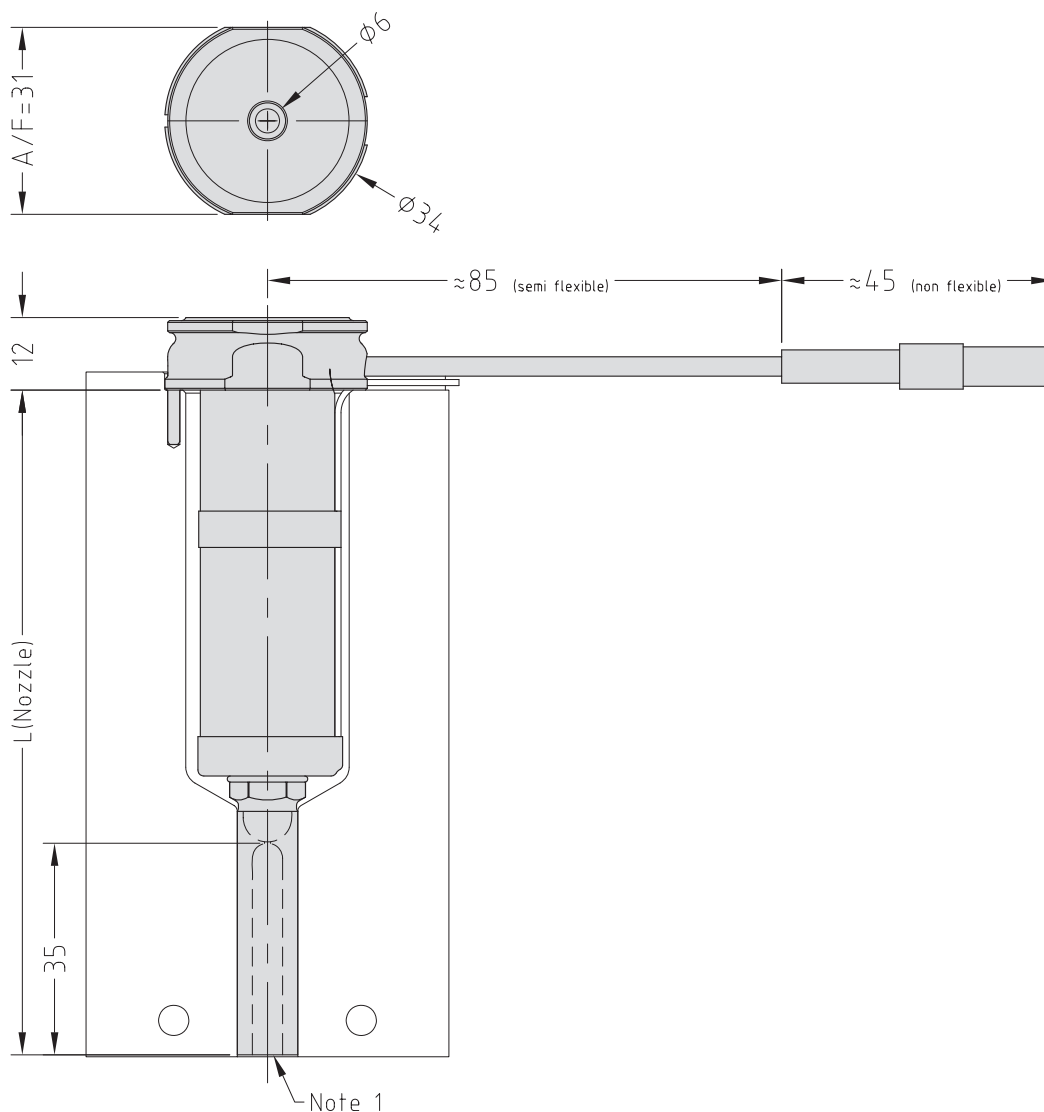
To order a nozzle assembly:

Provide the Nozzle Code + Grade
(Order example: BXISL13175 G5)

To order a tip:

Provide the Tip Code + Grade
(Order example: X 13 IT G5)

Nozzle Dimensions

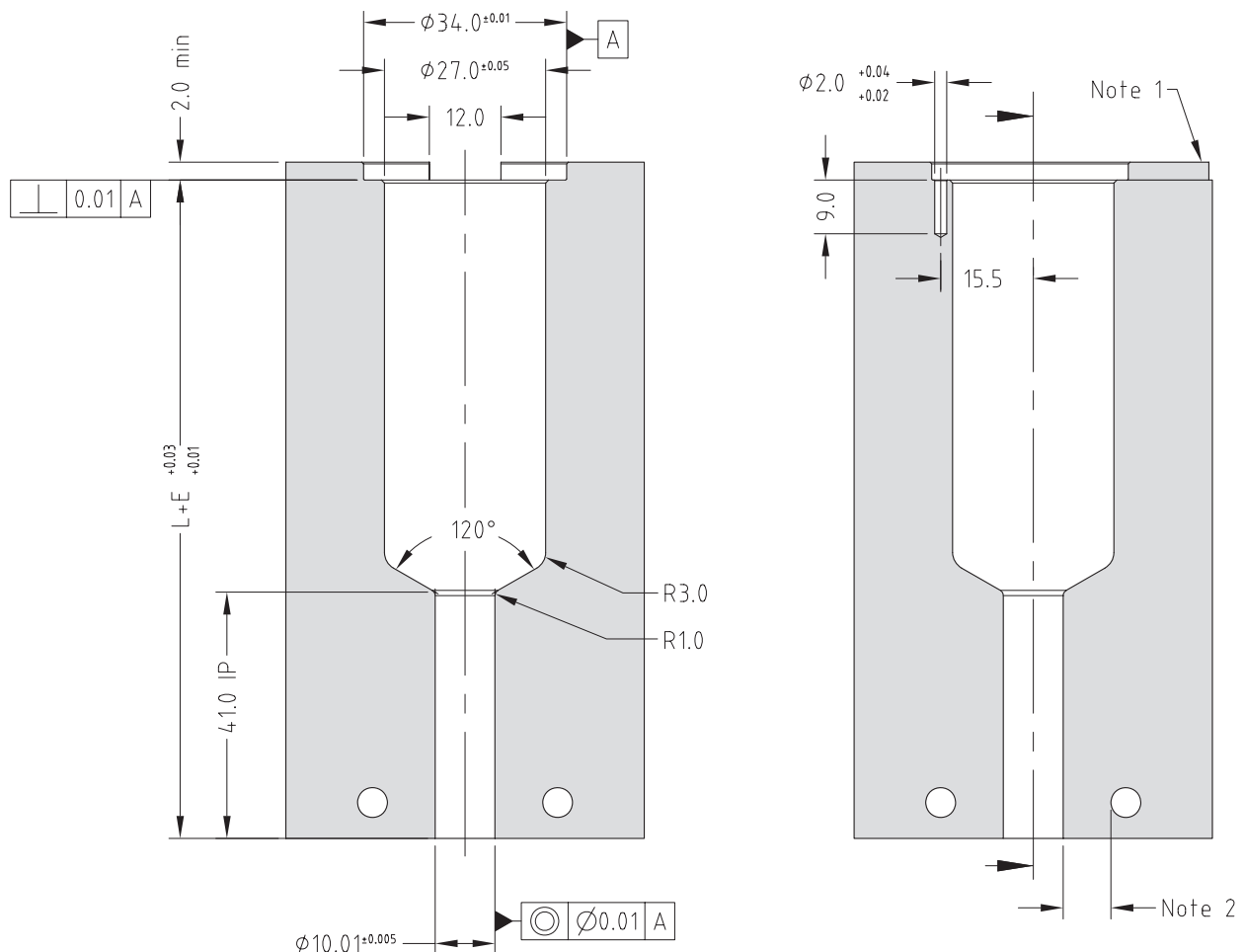
**Note**

1. Modify the contact area and the sprue nut to suit the application.
- See Gate Modifications and Cooling sections in the Technical Specifications.

Multi-hole Torpedo Tip Nozzle Code	One-hole Torpedo Tip Nozzle Code	Open Tip Nozzle Code	L	E@ΔT =200C	E@ΔT =250C
BXTSL13045	BXISL13045	BXOSL13045	80.2	0.21	0.26
BXTSL13055	BXISL13055	BXOSL13055	90.2	0.24	0.30
BXTSL13065	BXISL13065	BXOSL13065	100.2	0.26	0.33
BXTSL13075	BXISL13075	BXOSL13075	110.2	0.29	0.36
BXTSL13095	BXISL13095	BXOSL13095	130.2	0.34	0.43
BXTSL13115	BXISL13115	BXOSL13115	150.2	0.40	0.50
BXTSL13145	BXISL13145	BXOSL13145	180.2	0.48	0.59
BXTSL13175	BXISL13175	BXOSL13175	210.2	0.55	0.69

Nozzle Fitment and Gate Dimensions

$$E = L \times 0.0000132 \times (\text{nozzle temp. } ^\circ\text{C} - \text{mould temp. } ^\circ\text{C})$$



Note

1. Wire channel to suit mould.
 2. Gate cooling is critical for correct operation and gate quality. → See Cooling section in Technical Specifications.
 3. Modify gate diameter and land to suit the part. Supplied with $\varnothing 0.9$ → See Gate Modifications in Technical Specifications.
- * Minimum strength (σ_y) of nozzle plate 800MPa.

Tip and Material Grade Availability

Tip (Code)	G1	G2	G5
Multi-hole Torpedo Tip (X 13 TT+5)	✓	✓	✗
One-hole Torpedo Tip (X 13 IT+5)	✓	✓	✗
Open Tip	✗	✗	✗

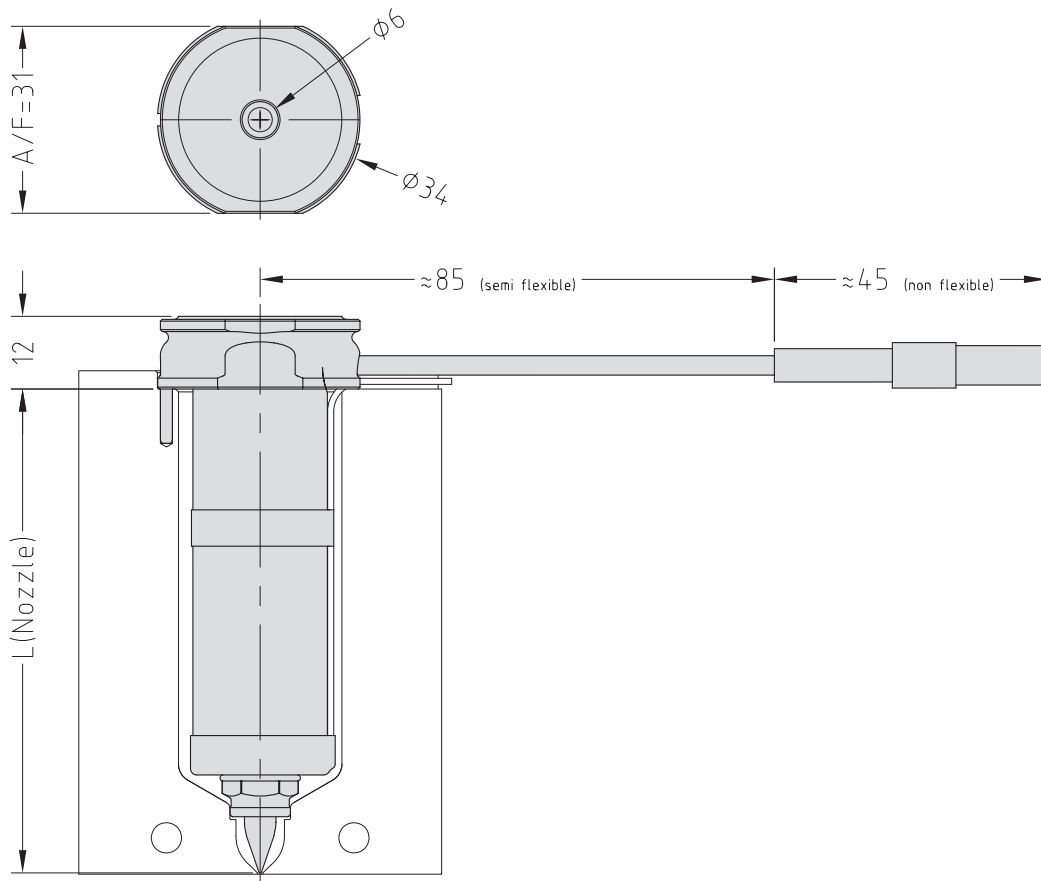
To order a nozzle assembly:

Provide the Nozzle Code + Grade
(Order example: BXIT13175+5 G2)

To order a tip:

Provide the Tip Code + Grade
(Order example: X 13 IT+5 G1)

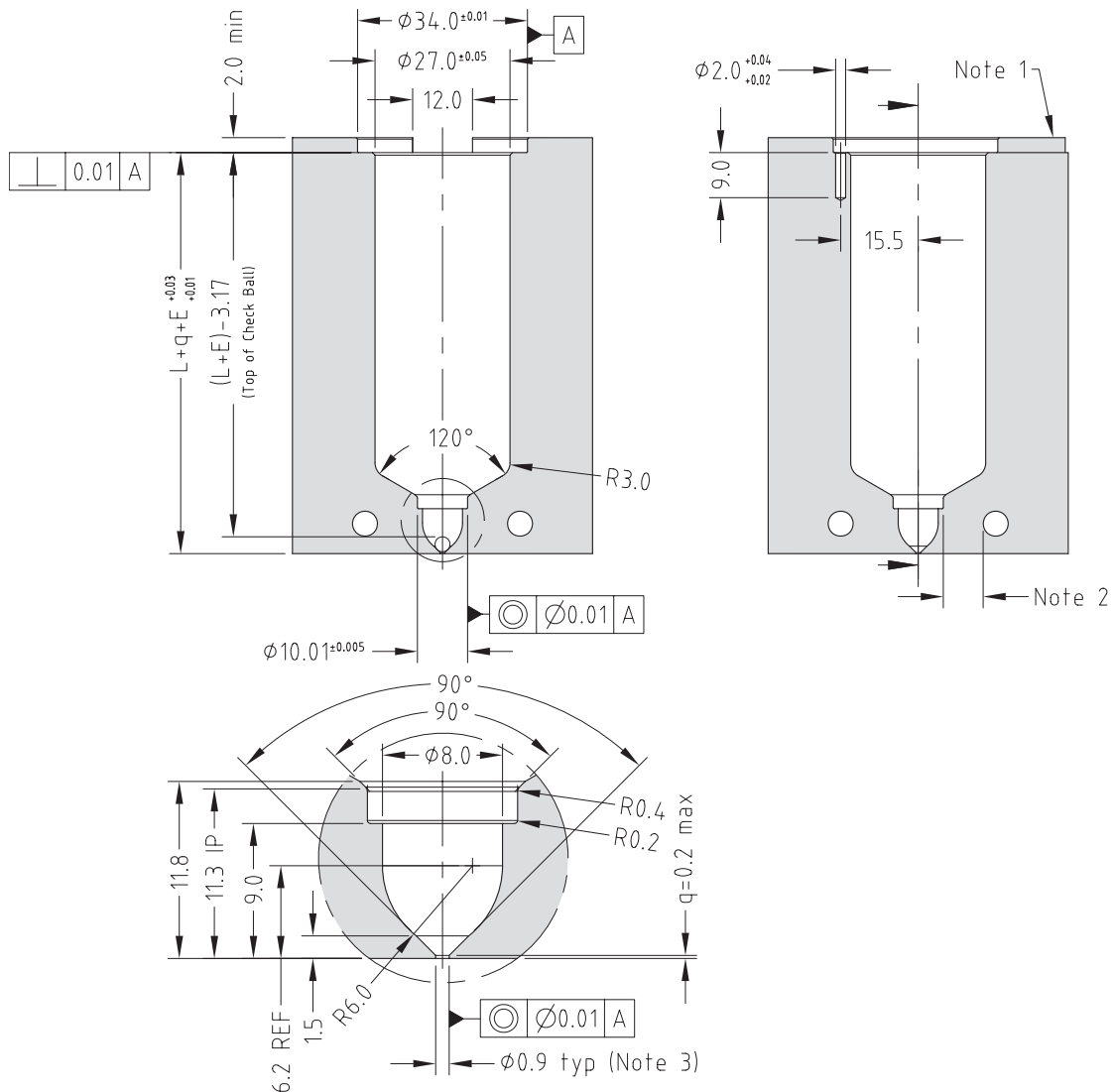
Nozzle Dimensions



Multi-hole Torpedo Tip Nozzle Code	One-hole Torpedo Tip Nozzle Code	L	$E @ \Delta T = 200C$	$E @ \Delta T = 250C$
BXTT13045+5	BXIT13045+5	50	0.13	0.17
BXTT13055+5	BXIT13055+5	60	0.16	0.20
BXTT13065+5	BXIT13065+5	70	0.18	0.23
BXTT13075+5	BXIT13075+5	80	0.21	0.26
BXTT13095+5	BXIT13095+5	100	0.26	0.33
BXTT13115+5	BXIT13115+5	120	0.32	0.40
BXTT13145+5	BXIT13145+5	150	0.40	0.50
BXTT13175+5	BXIT13175+5	180	0.48	0.59

Nozzle Fitment and Gate Dimensions

$$E = L \times 0.0000132 \times (\text{nozzle temp. } ^\circ\text{C} - \text{mould temp. } ^\circ\text{C})$$



Note

1. Wire channel to suit mould.
 2. Gate cooling is critical for correct operation and gate quality. → See Cooling section in Technical Specifications.
 3. Modify gate diameter and land to suit the part. → See Gate Modifications in Technical Specifications.
- * Minimum strength (σ_y) of nozzle plate 800MPa.

Tip and Material Grade Availability

Tip (Code)	G1	G2	G5
Multi-hole Torpedo Tip (X 13 TT+10)	✓	✓	✗
One-hole Torpedo Tip (X 13 IT+10)	✓	✓	✗
Open Tip	✗	✗	✗

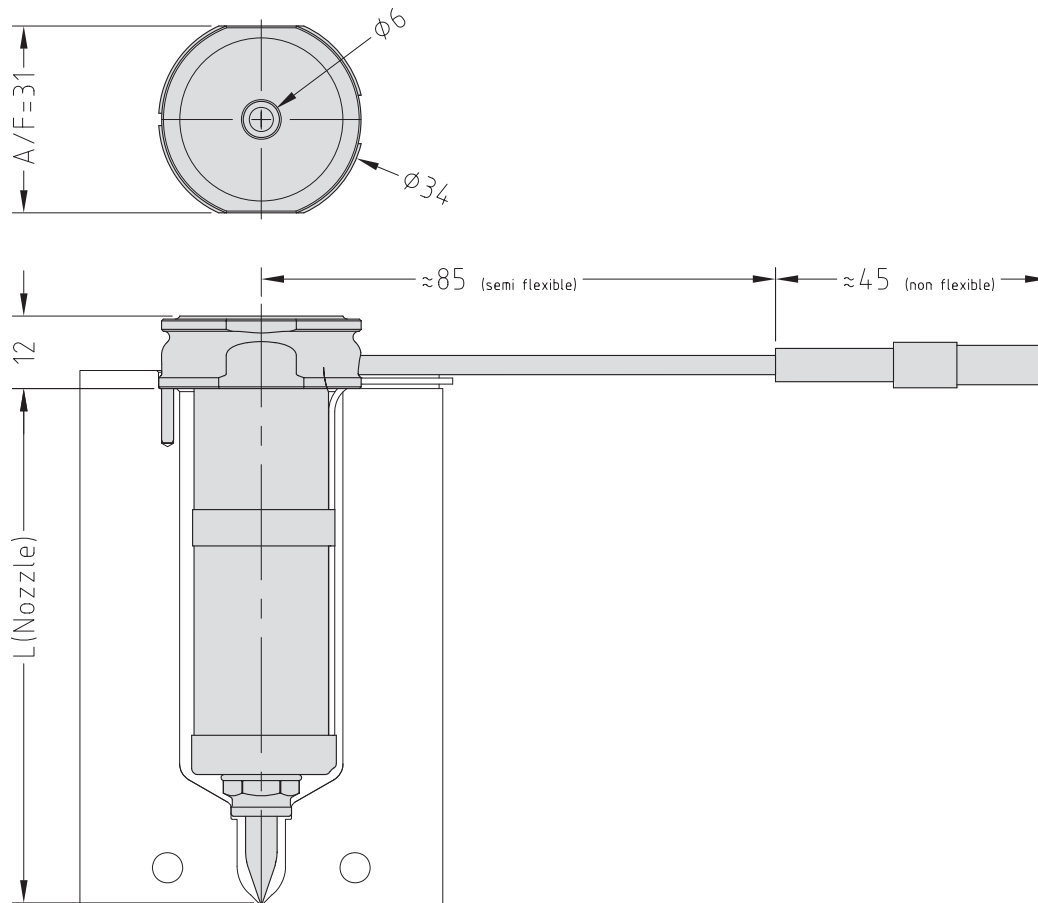
To order a nozzle assembly:

Provide the Nozzle Code + Grade
(Order example: BXIT13175+10 G2)

To order a tip:

Provide the Tip Code + Grade
(Order example: X 13 IT+10 G1)

Nozzle Dimensions



Mastip Head Office New Zealand

558 Rosebank Road
Avondale 1026, Auckland
PO Box 90-651
Victoria Street West
Auckland 1142
New Zealand
Phone: +64 9 970 2100
Fax: +64 9 970 2070
Email: mastip@mastip.com

Mastip Regional Office Europe

Phone: +33 4 724 72 800
Fax: +33 4 724 72 801
Email: europe@mastip.com

Mastip Regional Office China

Phone: +86 21 644 77838
Fax: +86 21 644 77828
Email: china@mastip.com

Mastip Regional Office North America

Phone: +1 262 644 9400
Fax: +1 262 644 9402
Email: northamerica@mastip.com

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V1.04

