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# MXVG
# Technical Guide

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# MXVG13

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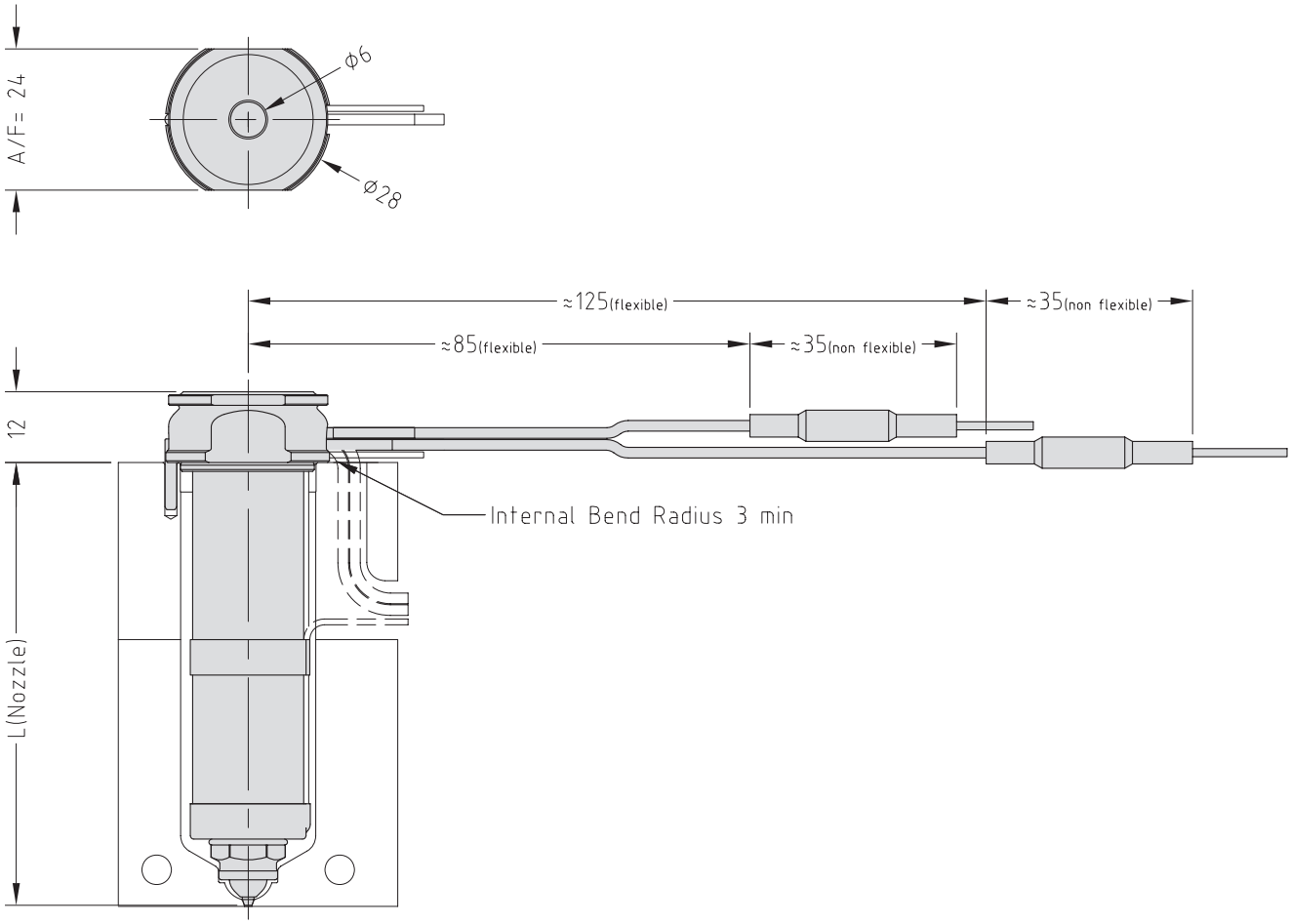
## Tip and Material Grade Availability

| Tip (Code) | G1 | G2 | G5 |
|---|---|---|---|
| One-hole Torpedo Tip | × | × | × |
| Open Tip (X 13 OV) | ✓ | × | × |

**To order a nozzle assembly:**
provide the Nozzle Code + Grade
(Order example: MXOV13145 G1)

**To order a tip:**
provide the Tip Code + Grade
(Order example: X 13 OV G1)

## Nozzle Dimensions




**Note**

* Pins are supplied Ø2.0 x 250 and must be cut to required length and taper added by mould maker at time of installation.

## Order Code & Expansion

| Open Tip Nozzle Code | L | EΔT =200C | EΔT =250C |
|---|---|---|---|
| MXOV13045 | 45 | 0.12 | 0.15 |
| MXOV13055 | 55 | 0.15 | 0.18 |
| MXOV13065 | 65 | 0.17 | 0.21 |
| MXOV13075 | 75 | 0.20 | 0.25 |
| MXOV13095 | 95 | 0.25 | 0.31 |
| MXOV13115 | 115 | 0.30 | 0.38 |
| MXOV13145 | 145 | 0.38 | 0.48 |

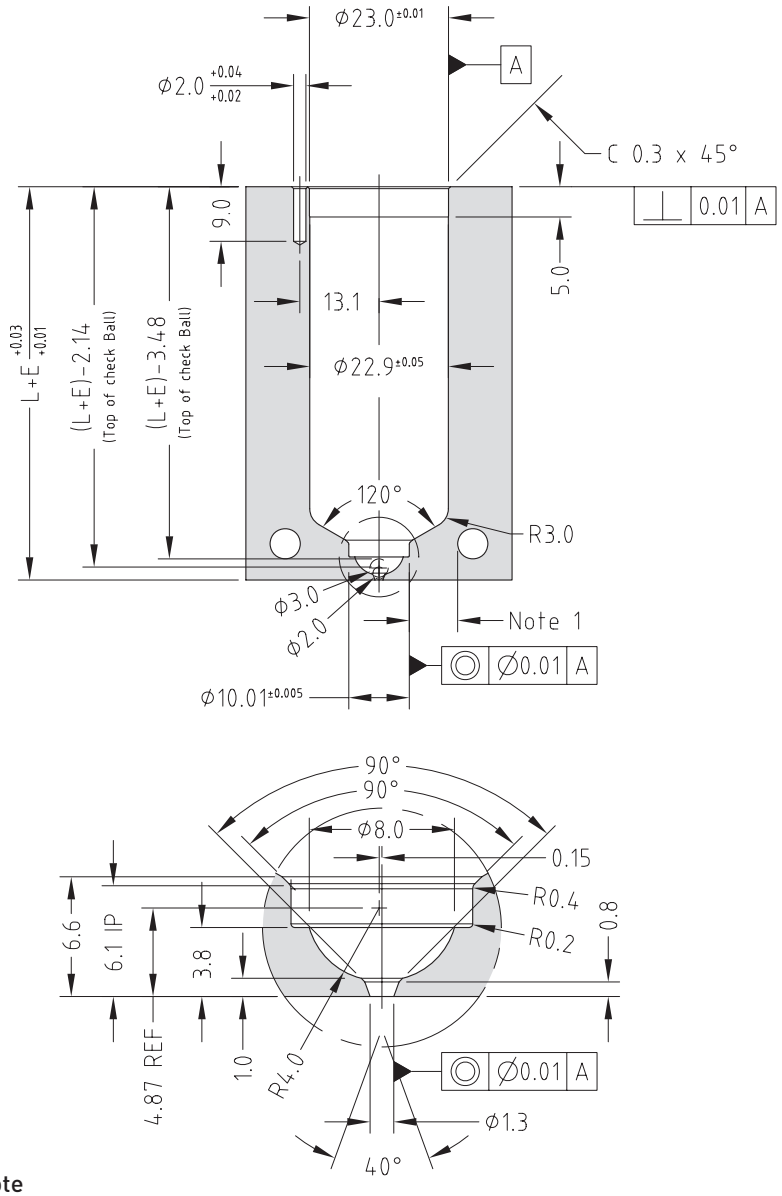
## Valve Gate Assembly

| Order Code | Actuation Type | Pin Size | Stroke |
|---|---|---|---|
| MVG40 – 2.0 x 250 | Pneumatic | 2.0 | 10 |

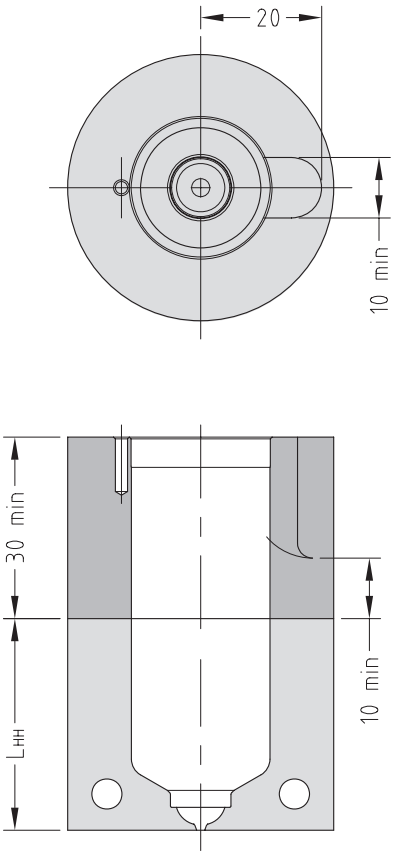
One Valve Gate assembly is required per nozzle

## Nozzle Fitment and Gate Dimensions

E = L x 0.0000132 x (nozzle temp. ºC - mould temp. ºC)




## Hot Half Configuration




**Note**

1. Gate cooling is critical for correct operation and gate quality. → See Cooling Section in the Technical Specifications.

* Minimum strength ($\sigma_y$) of nozzle plate 800MPa.

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# MXVG16

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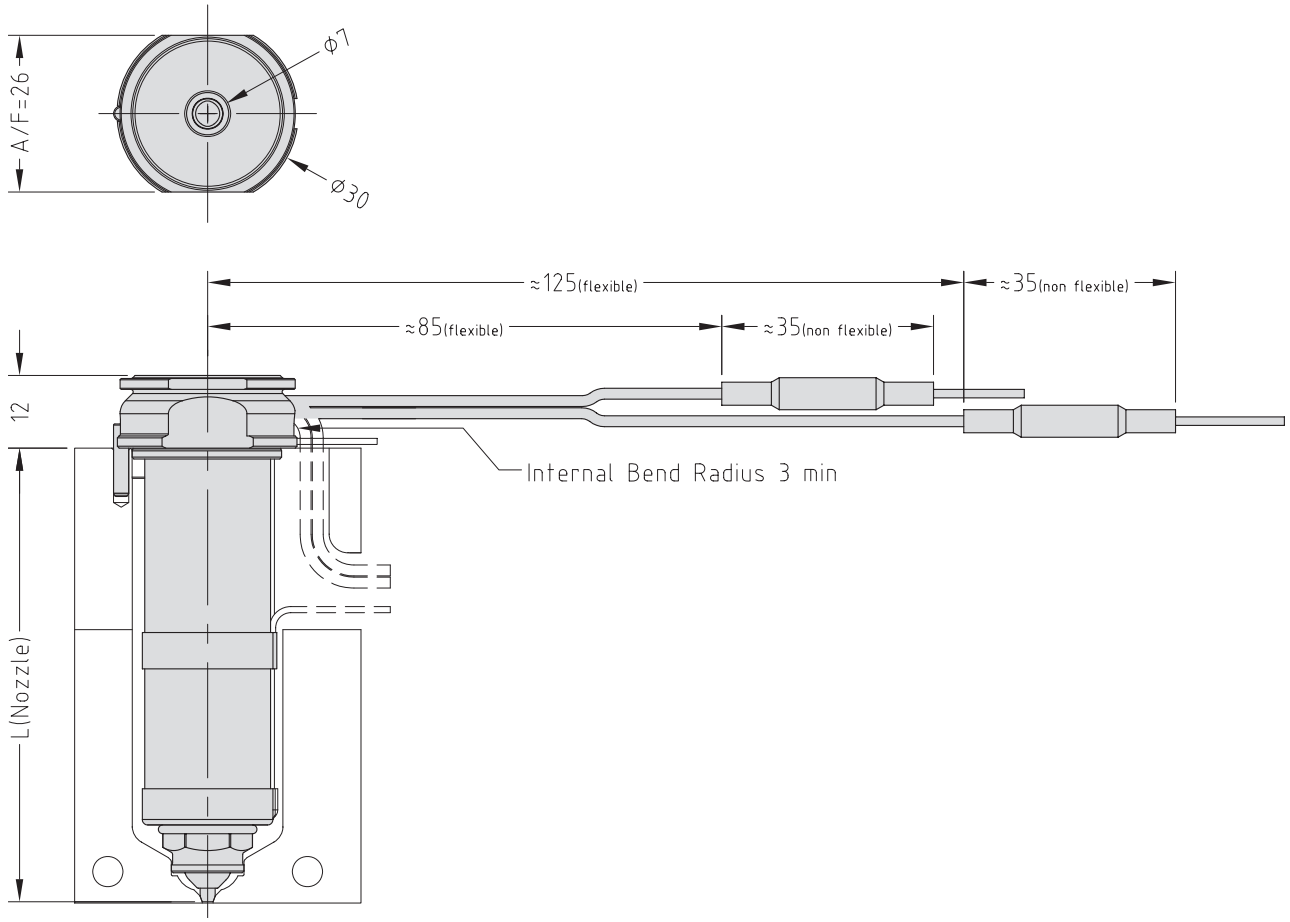
## Tip and Material Grade Availability

| Tip (Code) | G1 | G2 | G5 |
|---|---|---|---|
| Multi-hole Torpedo Tip (X 16 TV) | × | × | × |
| One-hole Torpedo Tip | ✓ | × | × |
| Open Tip (X 16 OV) | ✓ | × | × |

**To order a nozzle assembly:**
Provide the Nozzle Code + Grade
(Order example: MXTV16175 G1)

**To order a tip:**
Provide the Tip Code + Grade
(Order example: X 16 TV G1)

## Nozzle Dimensions




**Note**

* Pins are supplied Ø2.5 x 250 and must be cut to required length and taper added by mould maker at time of installation.

## Order Code & Expansion

| Multi-Hole Torpedo Nozzle Code | Open Tip Nozzle Code | L | E@ΔT =200C | E@ΔT =250C |
|---|---|---|---|---|
| MXTV16045 | MXOV16045 | 45 | 0.12 | 0.15 |
| MXTV16055 | MXOV16055 | 55 | 0.15 | 0.18 |
| MXTV16065 | MXOV16065 | 65 | 0.17 | 0.21 |
| MXTV16075 | MXOV16075 | 75 | 0.20 | 0.25 |
| MXTV16095 | MXOV16095 | 95 | 0.25 | 0.31 |
| MXTV16115 | MXOV16115 | 115 | 0.30 | 0.38 |
| MXTV16145 | MXOV16145 | 145 | 0.38 | 0.48 |

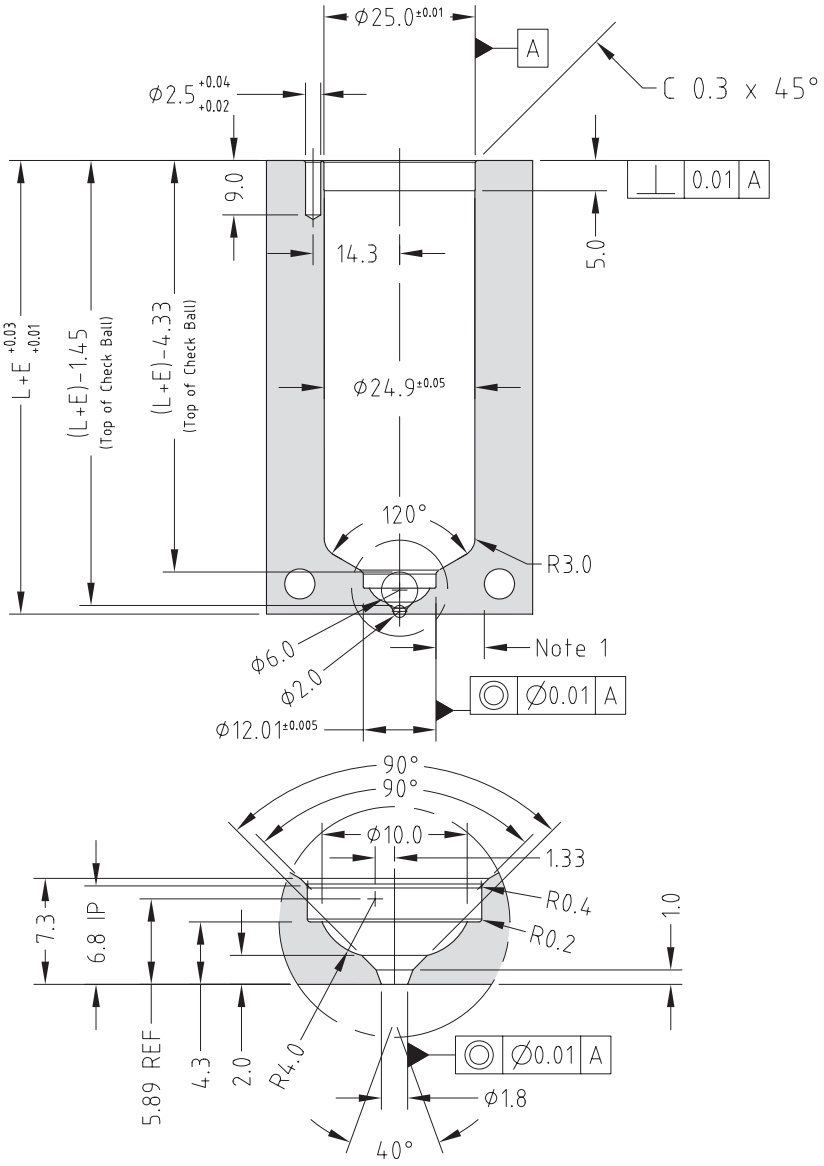
## Valve Gate Actuator

| Order Code | Actuation Type | Pin Size | Stroke |
|---|---|---|---|
| MVCH2510-2.5 | Hydraulic | 2.5 | 10 |
| MVG40-2.5x250 | Pneumatic | 2.5 | 10 |

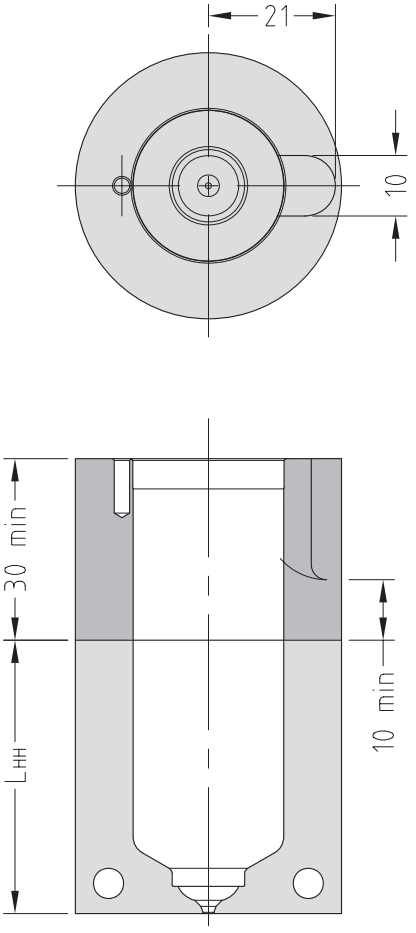
One Valve Gate assembly is required per nozzle

## Nozzle Fitment and Gate Dimensions

E = L x 0.0000132 x (nozzle temp. ºC - mould temp. ºC)




## Hot Half Configuration




**Note**

1. Gate cooling is critical for correct operation and gate quality. → See Cooling Section in the Technical Specifications.

* Minimum strength ($\sigma_y$) of nozzle plate 800MPa.

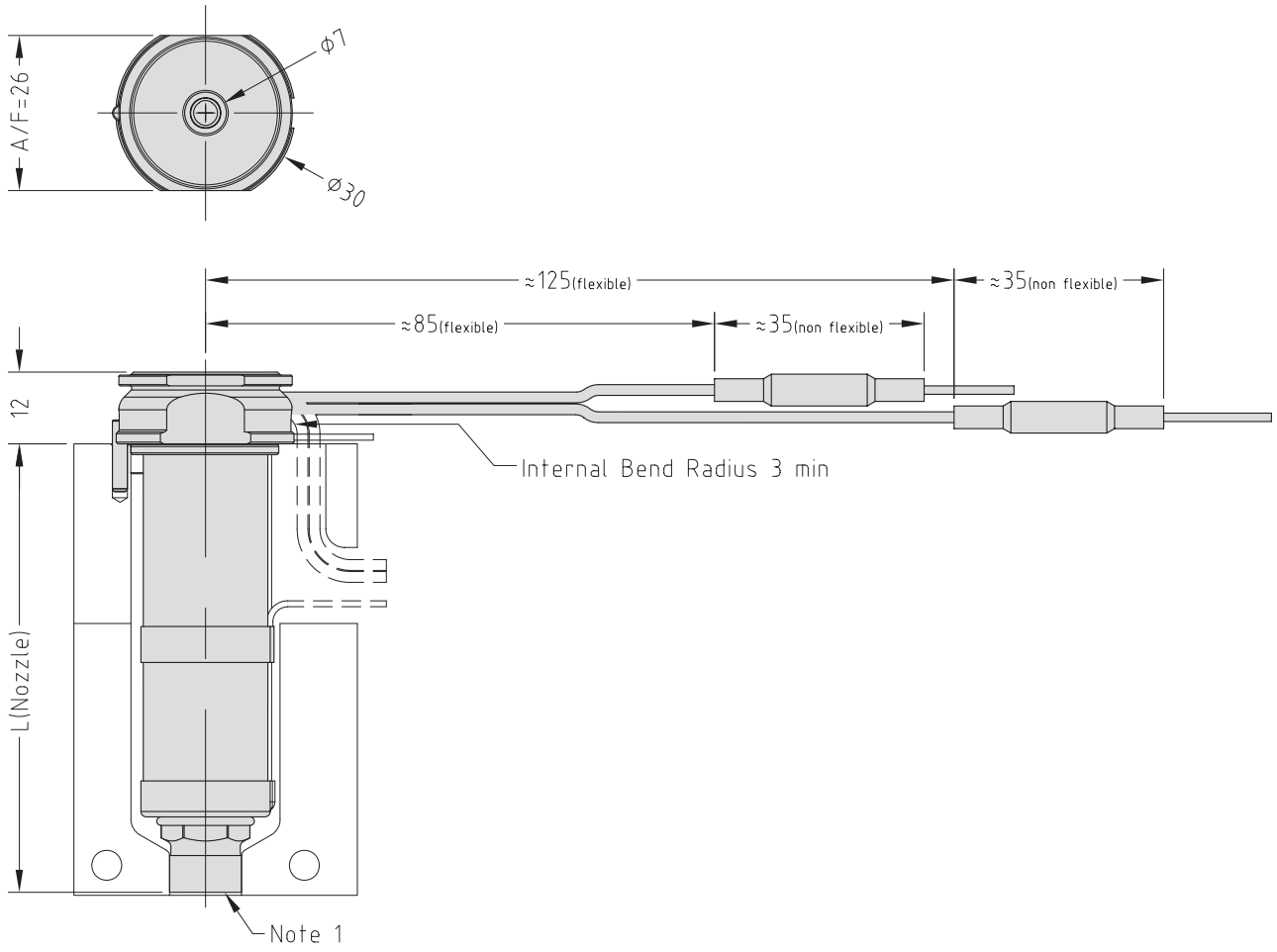
## Tip and Material Grade Availability

| Tip (Code) | G1 | G2 | G5 |
|---|---|---|---|
| Multi-hole Torpedo Tip (X 16 TV) | ✓ | × | × |
| One-hole Torpedo Tip | × | × | × |
| Open Tip (X 16 OV) | ✓ | × | × |

**To order a nozzle assembly:**
Provide the Nozzle Code + Grade
(Order example: MXOVBE16175 G1)

**To order a tip:**
Provide the Tip Code + Grade
(Order example: X 16 TV G1)

## Nozzle Dimensions




**Note**

1. Modify the contact area to suit the application.

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

* Pins are supplied Ø2.5 x 250 and must be cut to required length and taper added by mould maker at time of installation.

## Order Code & Expansion

| Multi-Hole Torpedo Nozzle Code | Open Tip Nozzle Code | L | EΔT =200C | EΔT =250C |
|---|---|---|---|---|
| MXTVBE16045 | MXOVBE16045 | 45 | 0.12 | 0.15 |
| MXTVBE16055 | MXOVBE16055 | 55 | 0.15 | 0.18 |
| MXTVBE16065 | MXOVBE16065 | 65 | 0.17 | 0.22 |
| MXTVBE16075 | MXOVBE16075 | 75 | 0.20 | 0.25 |
| MXTVBE16095 | MXOVBE16095 | 95 | 0.25 | 0.31 |
| MXTVBE16115 | MXOVBE16115 | 115 | 0.30 | 0.38 |
| MXTVBE16145 | MXOVBE16145 | 145 | 0.38 | 0.48 |

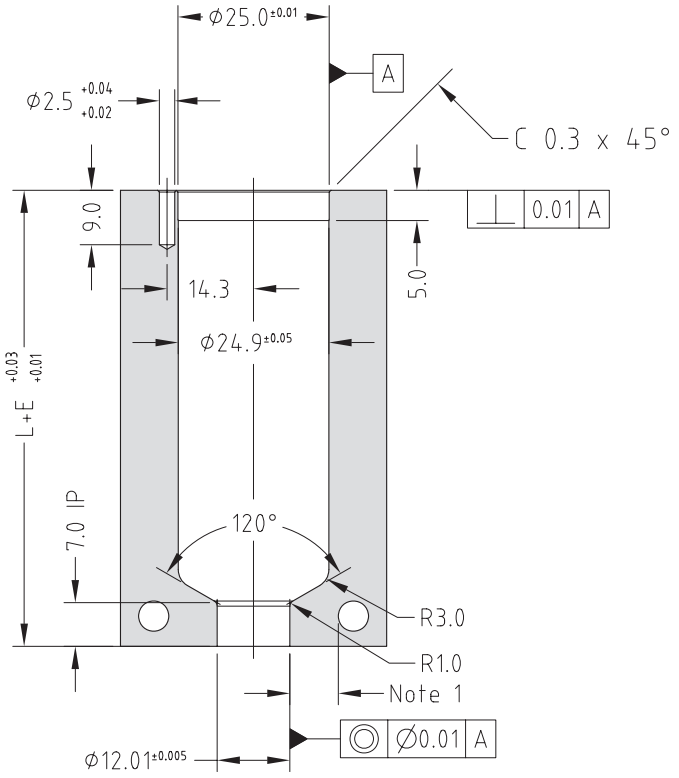
## Valve Gate Assembly

| Order Code | Actuation Type | Pin Size | Stroke |
|---|---|---|---|
| MVCH2510-2.5 | Hydraulic | 2.5 | 10 |
| MVG40-2.5x250 | Pneumatic | 2.5 | 10 |

One Valve Gate assembly is required per nozzle

## Nozzle Fitment and Gate Dimensions

E = L x 0.0000132 x (nozzle temp. ºC - mould temp. ºC)




**Note**

1. Gate cooling is critical for correct operation and gate quality. → See Cooling Section in the Technical Specifications.

* Minimum strength ($\sigma_y$) of nozzle plate 800MPa.

** Hot half configurations are not recommended for bush nut nozzles.

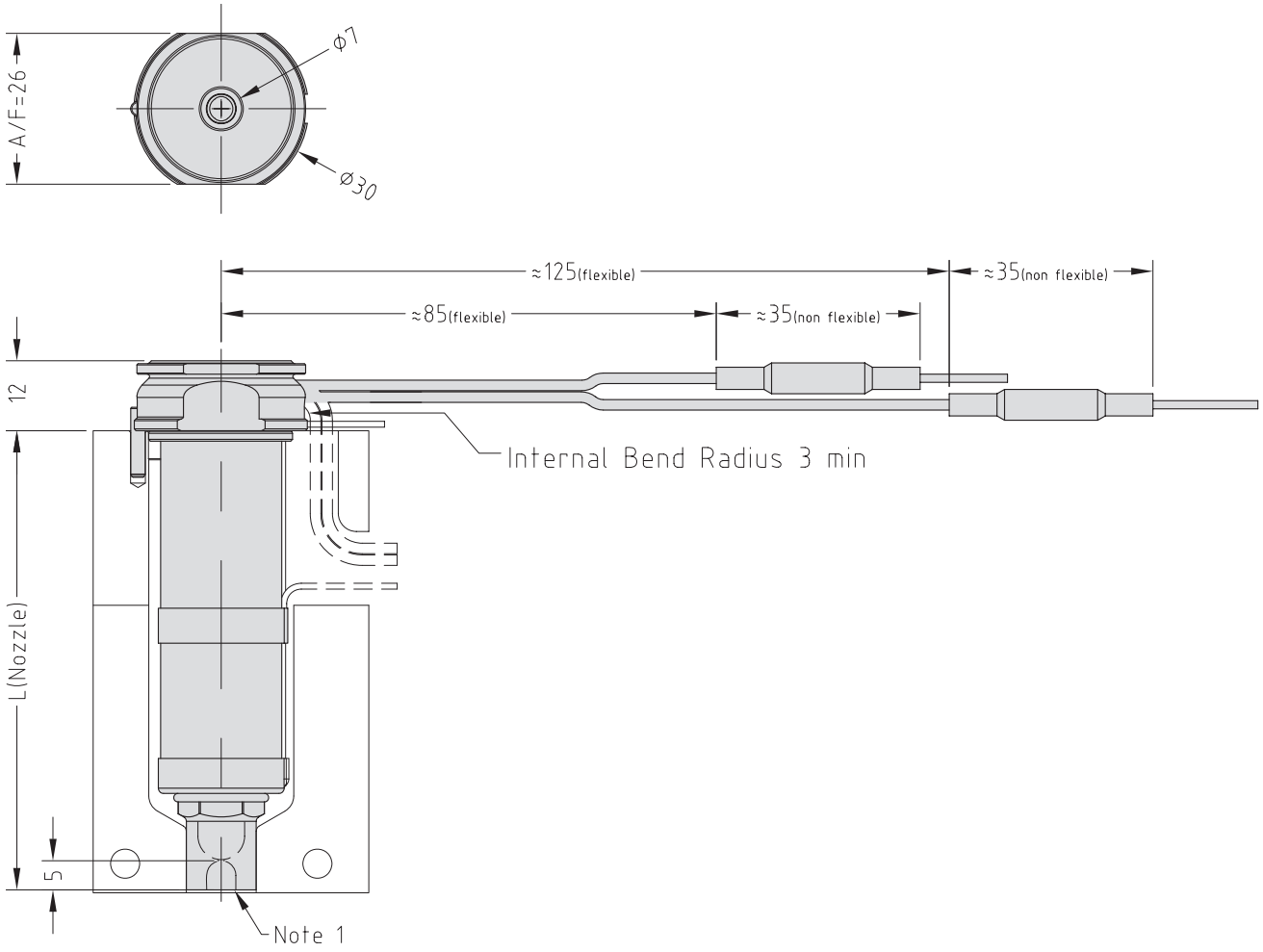
## Tip and Material Grade Availability

| Tip (Code) | G1 | G2 | G5 |
|---|---|---|---|
| Multi-hole Torpedo Tip (X 16 TV) | ✓ | × | × |
| One-hole Torpedo Tip | × | × | × |
| Open Tip (X 16 OV) | ✓ | × | × |

**To order a nozzle assembly:**
Provide the Nozzle Code + Grade
(Order example: MXTVSN16175 G1)

**To order a tip:**
Provide the Tip Code + Grade
(Order example: X 16 TV G1)

## 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.

* Pins are supplied Ø2.5 x 250 and must be cut to required length and taper added by mould maker at time of installation.

## Order Code & Expansion

| Multi-Hole Torpedo Nozzle Code | Open Tip Nozzle Code | L | E@ΔT =200C | E@ΔT =250C |
|---|---|---|---|---|
| MXTVSN16045 | MXOVSN16045 | 50 | 0.13 | 0.17 |
| MXTVSN16055 | MXOVSN16055 | 60 | 0.16 | 0.20 |
| MXTVSN16065 | MXOVSN16065 | 70 | 0.19 | 0.23 |
| MXTVSN16075 | MXOVSN16075 | 80 | 0.21 | 0.26 |
| MXTVSN16095 | MXOVSN16095 | 100 | 0.26 | 0.33 |
| MXTVSN16115 | MXOVSN16115 | 120 | 0.32 | 0.40 |
| MXTVSN16145 | MXOVSN16145 | 150 | 0.40 | 0.50 |

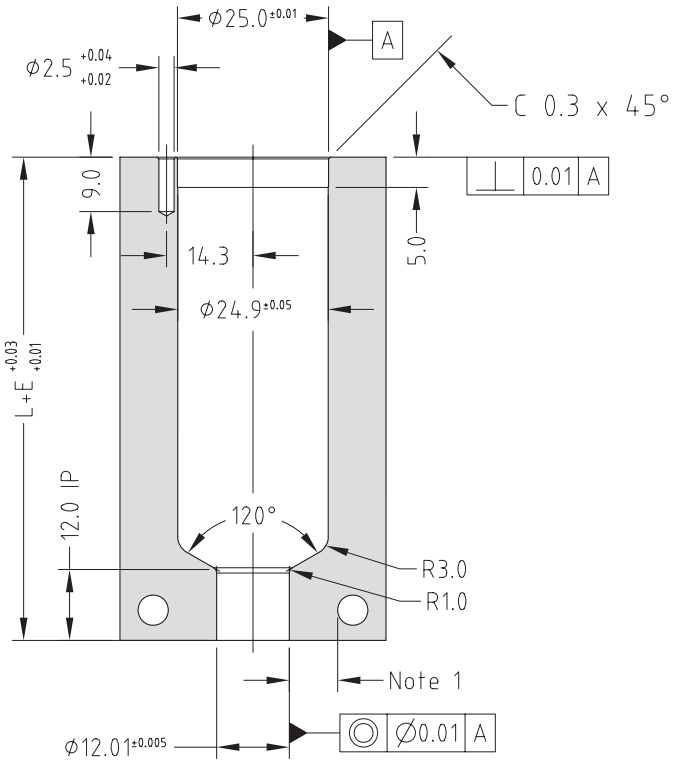
## Valve Gate Assembly

| Order Code | Actuation Type | Pin Size | Stroke |
|---|---|---|---|
| MVCH2510-2.5 | Hydraulic | 2.5 | 10 |
| MVG40-2.5x250 | Pneumatic | 2.5 | 10 |

One Valve Gate assembly is required per nozzle

## Nozzle Fitment and Gate Dimensions

E = L x 0.0000132 x (nozzle temp. ºC - mould temp. ºC)




**Note**

1. Gate cooling is critical for correct operation and gate quality. → See Cooling Section in the Technical Specifications.

* Minimum strength ($\sigma_y$) of nozzle plate 800MPa.

** Hot half configurations are not recommended for sprue nut nozzles.

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# MXVG19

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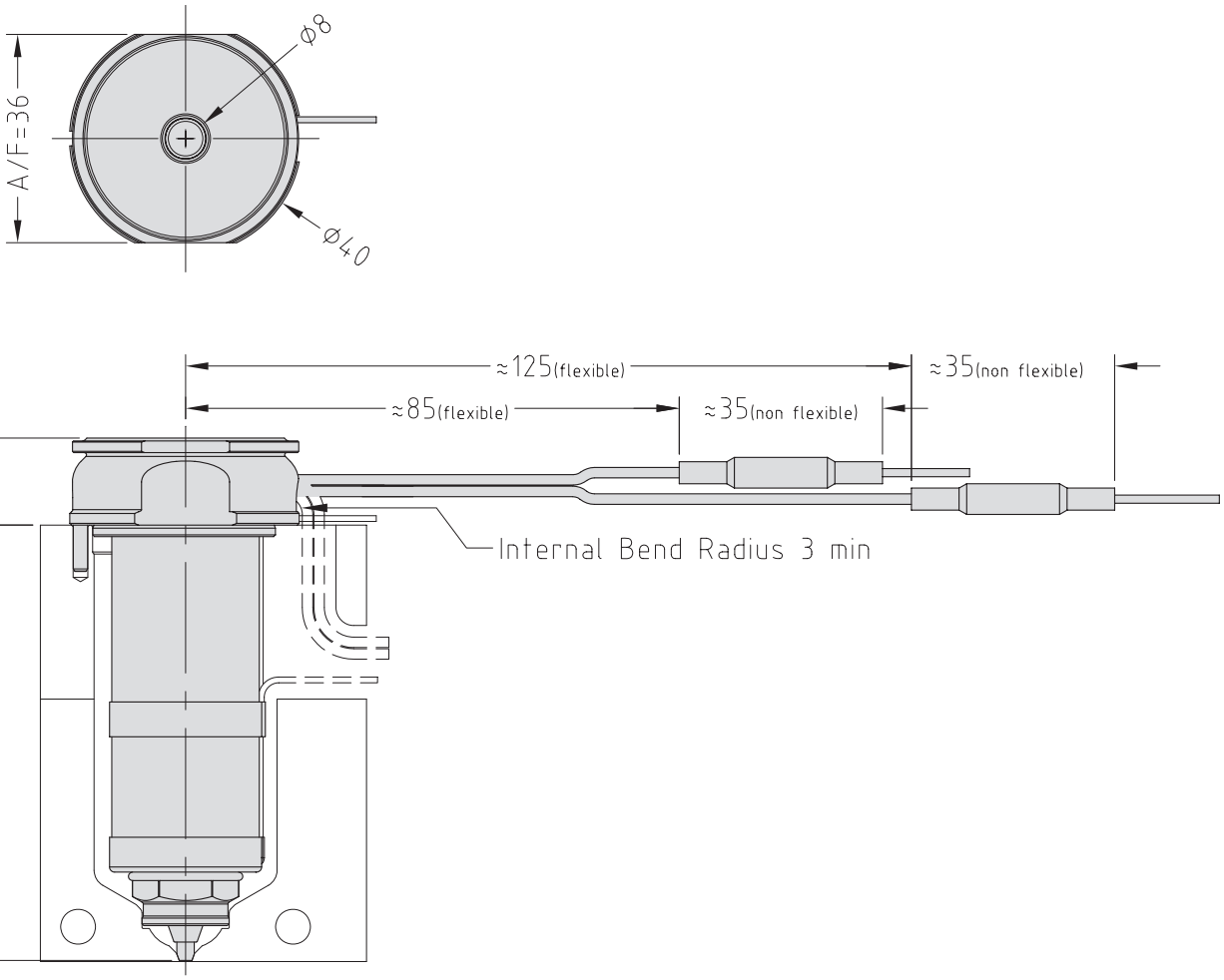
## Tip and Material Grade Availability

| Tip (Code) | G1 | G2 | G5 |
|---|---|---|---|
| Multi-hole Torpedo Tip (X 19 TV) | ✓ | × | × |
| One-hole Torpedo Tip | × | × | × |
| Open Tip (X 19 OV) | ✓ | × | ✓ |

**To order a nozzle assembly:**
Provide the Nozzle Code + Grade
(Order example: MXOV19175 G1)

**To order a tip:**
Provide the Tip Code + Grade
(Order example: X 19 TV G1)

## Nozzle Dimensions




**Note**

* Pins are supplied Ø3.0 x 250 and must be cut to required length and taper added by mould maker at time of installation.

## Order Code & Expansion

| Multi-Hole Torpedo Nozzle Code | Open Tip Nozzle Code | L | EQΔT =200C | EQΔT =250C |
|---|---|---|---|---|
| MXTV19055 | MXOV19055 | 55 | 0.15 | 0.18 |
| MXTV19065 | MXOV19065 | 65 | 0.17 | 0.21 |
| MXTV19075 | MXOV19075 | 75 | 0.20 | 0.25 |
| MXTV19095 | MXOV19095 | 95 | 0.25 | 0.31 |
| MXTV19115 | MXOV19115 | 115 | 0.30 | 0.38 |
| MXTV19145 | MXOV19145 | 145 | 0.38 | 0.48 |

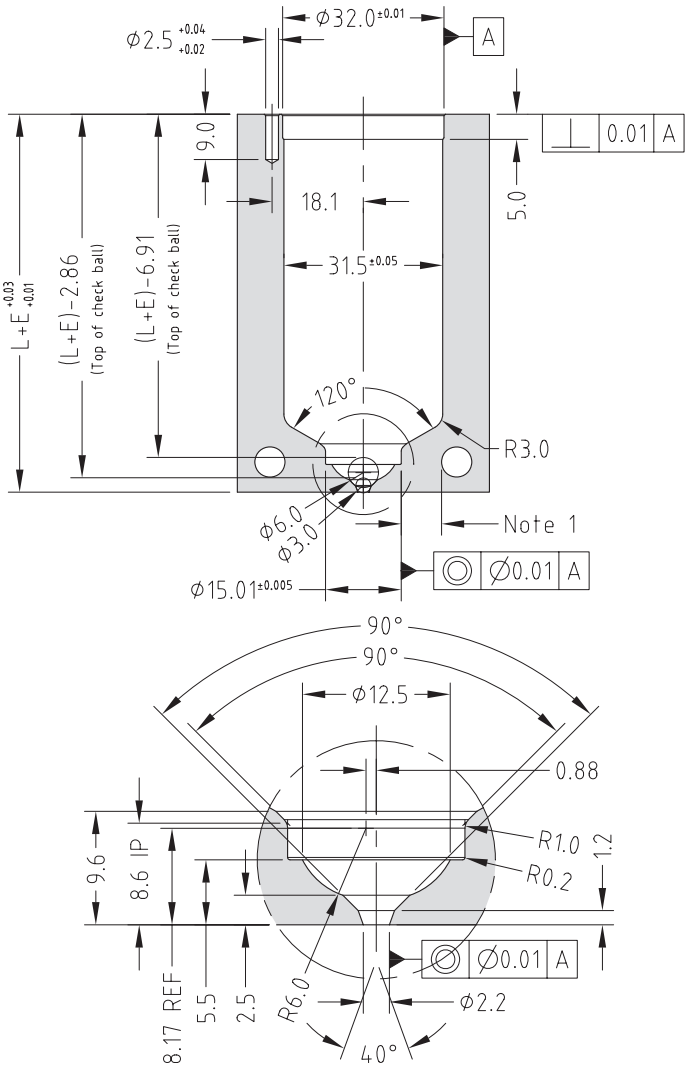
## Valve Gate Assembly

| Order Code | Actuation Type | Pin Size | Stroke |
|---|---|---|---|
| MVCH2510-3.0 | Hydraulic | 3 | 10 |
| MVG40-3.0x250 | Pneumatic | 3 | 10 |

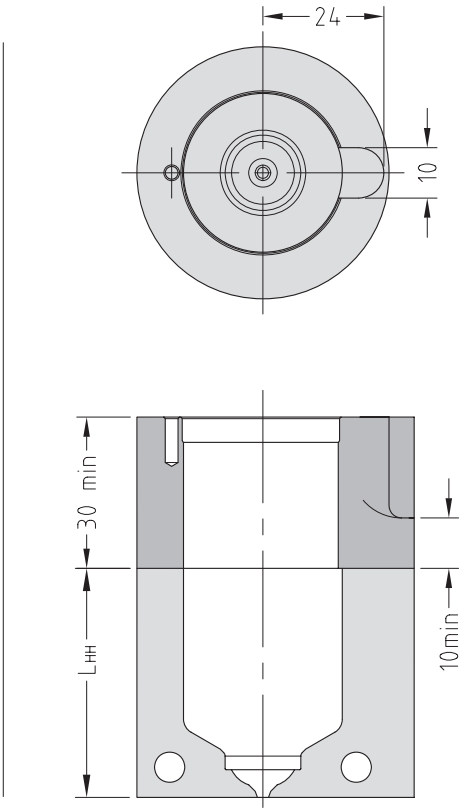
One Valve Gate assembly is required per nozzle

## Nozzle Fitment and Gate Dimensions

E = L x 0.0000132 x (nozzle temp. ºC - mould temp. ºC)




## Hot Half Configuration




**Note**

1. Gate cooling is critical for correct operation and gate quality. → See Cooling Section in the Technical Specifications.

* Minimum strength ($\sigma_y$) of nozzle plate 800MPa.

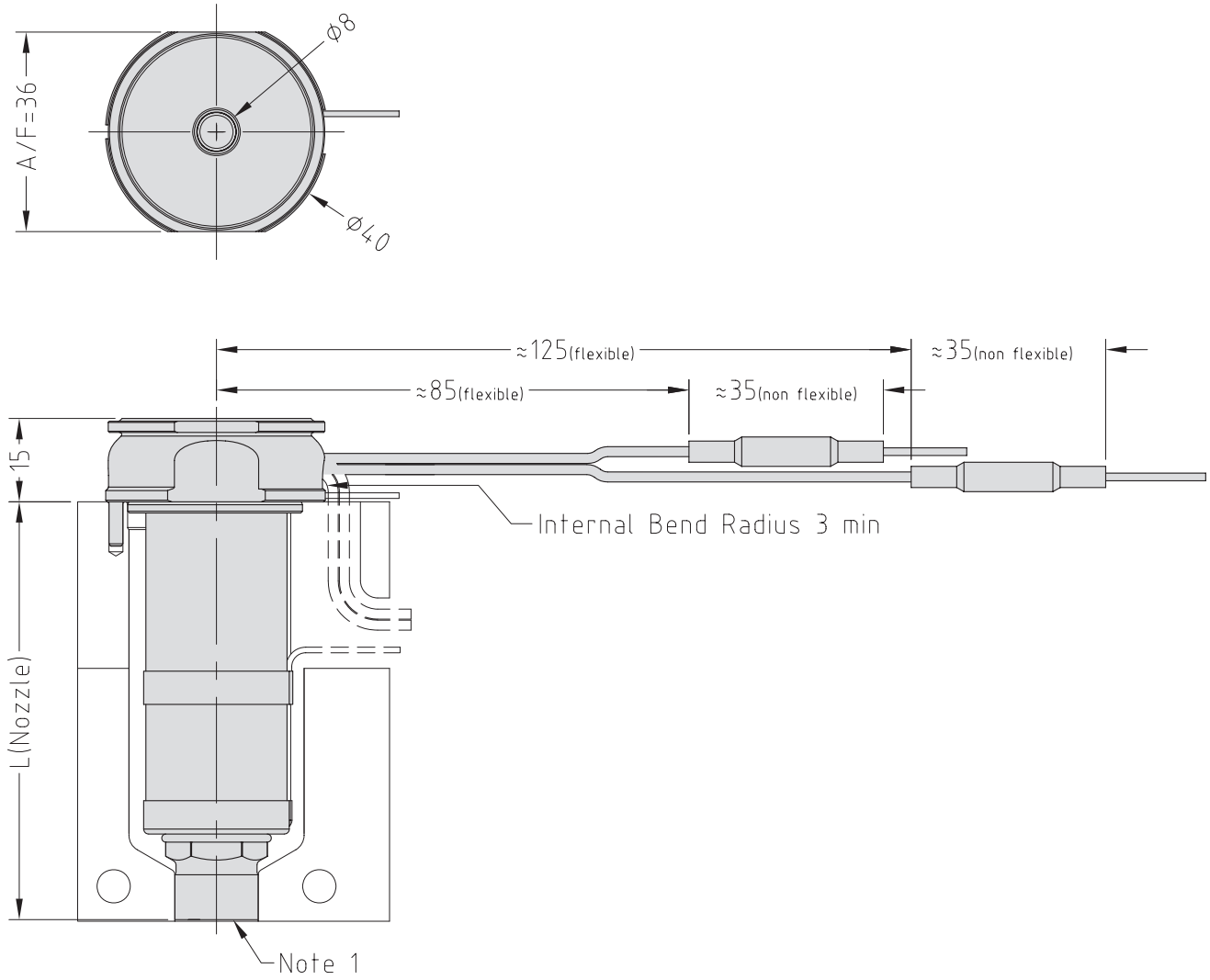
## Tip and Material Grade Availability

| Tip (Code) | G1 | G2 | G5 |
|---|---|---|---|
| Multi-hole Torpedo Tip (X 19 TV) | ✓ | × | × |
| One-hole Torpedo Tip | × | × | × |
| Open Tip (X 19 OV) | ✓ | × | ✓ |

**To order a nozzle assembly:**
Provide the Nozzle Code + Grade
(Order example: MXOVBE19175 G1)

**To order a tip:**
Provide the Tip Code + Grade
(Order example: X 19 TV G1)

## Nozzle Dimensions




**Note**

1. Modify the contact area to suit the application.

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

* Pins are supplied Ø3.0 x 250 and must be cut to required length and taper added by mould maker at time of installation.

## Order Code & Expansion

| Multi-Hole Torpedo Nozzle Code | Open Tip Nozzle Code | L | EQΔT =200C | EQΔT =250C |
|---|---|---|---|---|
| MXTVBE19055 | MXOVBE19055 | 55 | 0.15 | 0.18 |
| MXTVBE19065 | MXOVBE19065 | 65 | 0.17 | 0.22 |
| MXTVBE19075 | MXOVBE19075 | 75 | 0.20 | 0.25 |
| MXTVBE19095 | MXOVBE19095 | 95 | 0.25 | 0.31 |
| MXTVBE19115 | MXOVBE19115 | 115 | 0.30 | 0.38 |
| MXTVBE19145 | MXOVBE19145 | 145 | 0.38 | 0.48 |

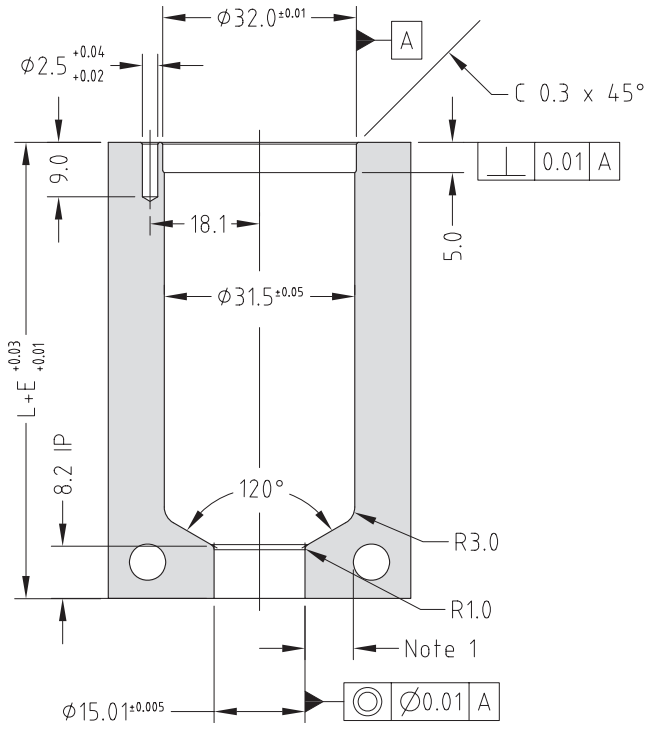
## Valve Gate Assembly

| Order Code | Actuation Type | Pin Size | Stroke |
|---|---|---|---|
| MVCH2510-3.0 | Hydraulic | 3 | 10 |
| MVG40-3.0x250 | Pneumatic | 3 | 10 |

One Valve Gate assembly is required per nozzle

## Nozzle Fitment and Gate Dimensions

E = L x 0.0000132 x (nozzle temp. ºC - mould temp. ºC)




**Note**

1. Gate cooling is critical for correct operation and gate quality. → See Cooling Section in the Technical Specifications.

* Minimum strength ($\sigma_y$) of nozzle plate 800MPa.

** Hot half configurations are not recommended for bush nut nozzles.

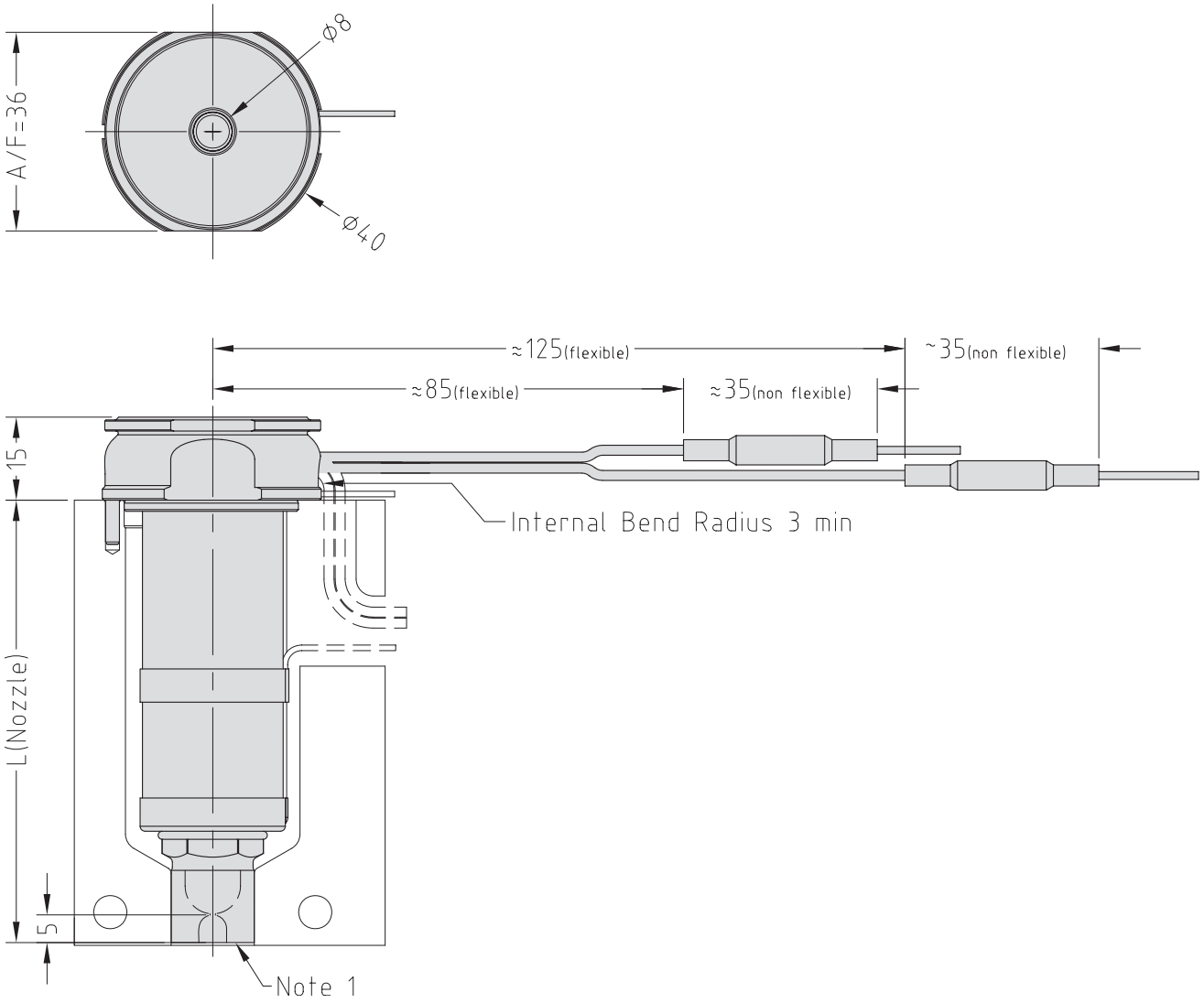
## Tip and Material Grade Availability

| Tip (Code) | G1 | G2 | G5 |
|---|---|---|---|
| Multi-hole Torpedo Tip (X 19 TV) | ✓ | × | × |
| One-hole Torpedo Tip | × | × | × |
| Open Tip (X 19 OV) | ✓ | × | ✓ |

**To order a nozzle assembly:**
Provide the Nozzle Code + Grade
(Order example: MXTVSN19175 G1)

**To order a tip:**
Provide the Tip Code + Grade
(Order example: X 19 TV G1)

## 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.

* Pins are supplied Ø3.0 x 250 and must be cut to required length and taper added by mould maker at time of installation.

## Order Code & Expansion

| Multi-Hole Torpedo Nozzle Code | Open Tip Nozzle Code | L | EQΔT =200C | EQΔT =250C |
|---|---|---|---|---|
| MXTVSN19055 | MXOVSN19055 | 60 | 0.16 | 0.20 |
| MXTVSN19065 | MXOVSN19065 | 70 | 0.19 | 0.23 |
| MXTVSN19075 | MXOVSN19075 | 80 | 0.21 | 0.26 |
| MXTVSN19095 | MXOVSN19095 | 100 | 0.26 | 0.33 |
| MXTVSN19115 | MXOVSN19115 | 120 | 0.32 | 0.40 |
| MXTVSN19145 | MXOVSN19145 | 150 | 0.40 | 0.50 |

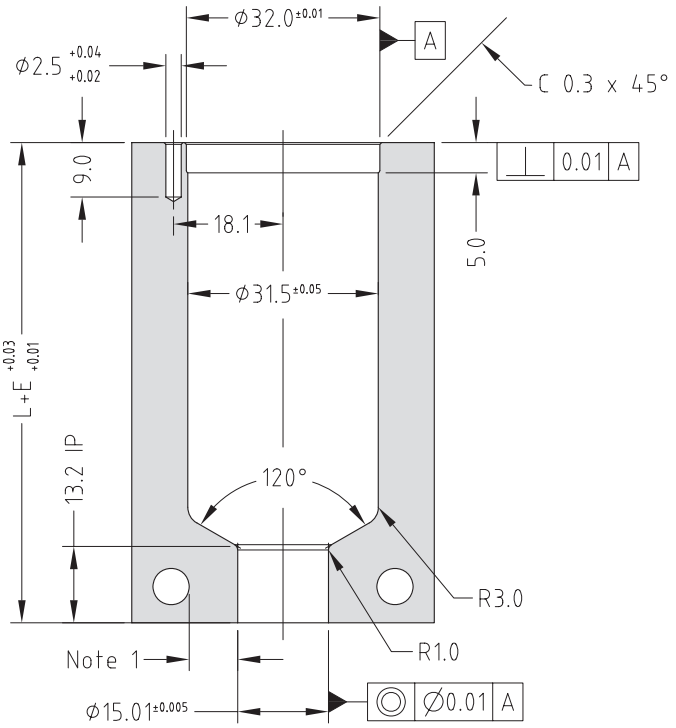
## Valve Gate Assembly

| Order Code | Actuation Type | Pin Size | Stroke |
|---|---|---|---|
| MVCH2510-3.0 | Hydraulic | 3 | 10 |
| MVG40-3.0x250 | Pneumatic | 3 | 10 |

One Valve Gate assembly is required per nozzle

## Nozzle Fitment and Gate Dimensions

E = L x 0.0000132 x (nozzle temp. ºC - mould temp. ºC)




**Note**

1. Gate cooling is critical for correct operation and gate quality. → See Cooling Section in the Technical Specifications.

* Minimum strength ($\sigma_y$) of nozzle plate 800MPa.

** Hot half configurations are not recommended for sprue nut nozzles.

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