

CHAPTER 2

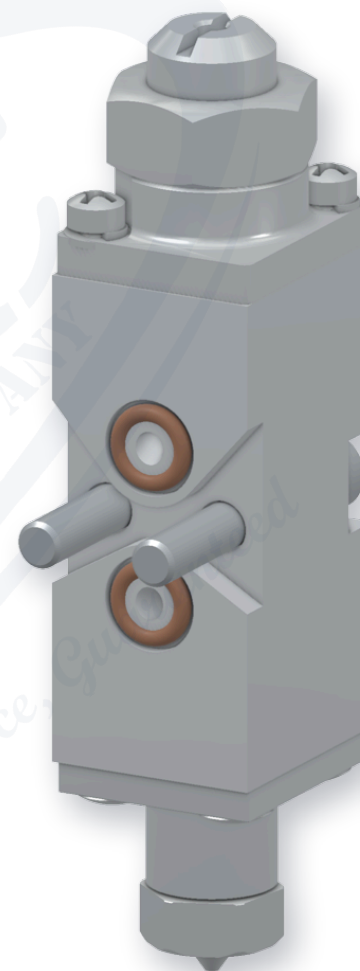
Modules

Module Identification and Ordering Guide

H200 and mini ball and seat and NC modules. Air type, needle style, filtered upgrades and the HMSC module that replaces each Nordson number.

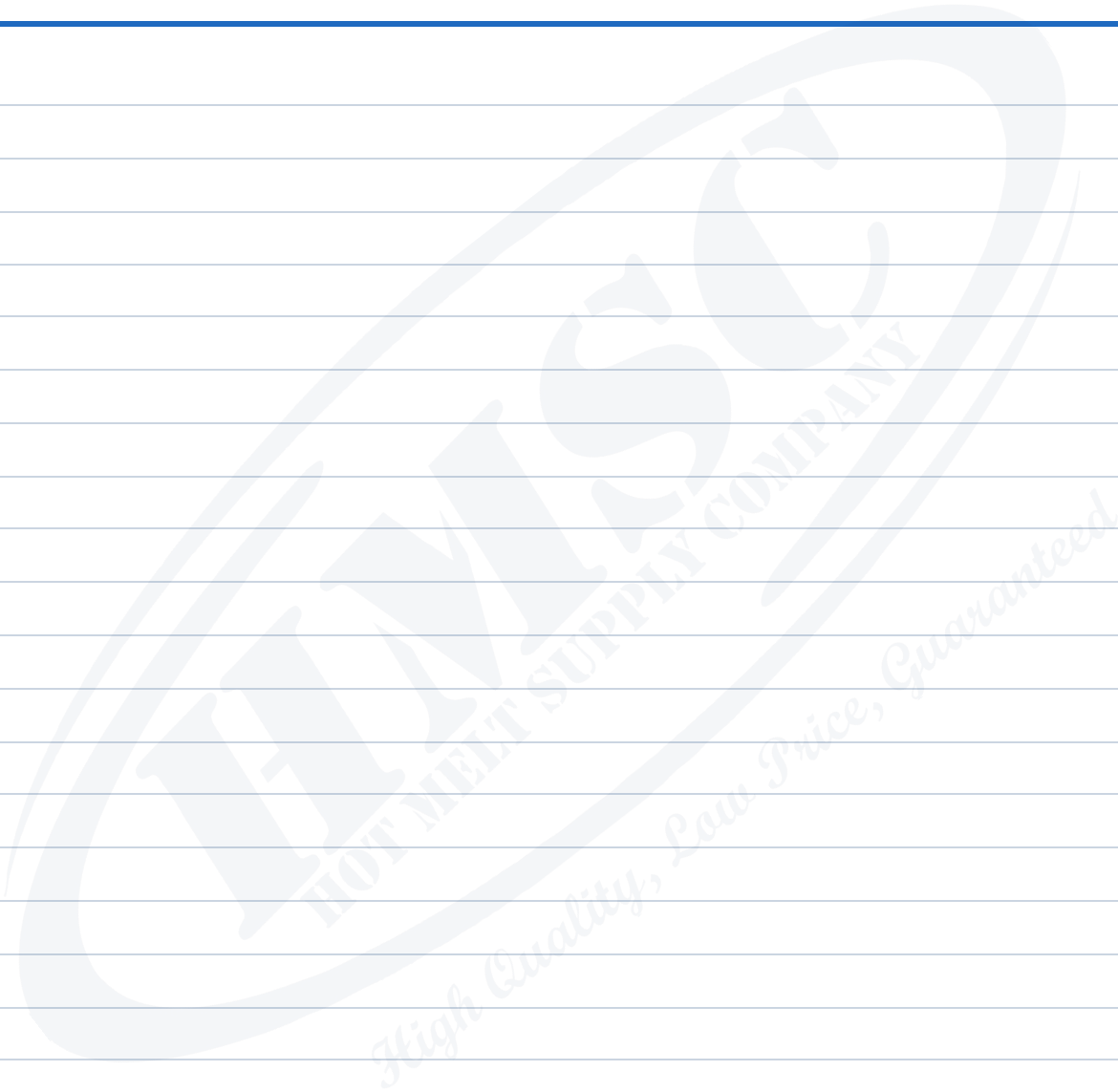
Revision 10/2026

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Notes





Module Identification and Ordering Guide

Module Identification and Ordering Guide

Nordson H200 and MiniBlue modules look alike from the outside. Two checks tell you which one you have, so you can order the right replacement module, rebuild kit and nozzle.

1 Air type

Remove the module and count the ports on the back (the face that mounts to the gun).

3 ports = Air Open Air Closed (AOAC)

2 ports = Air Open Spring Closed (AOSC)

H200 only. All MiniBlue modules are AOAC (Air Open Air Closed).

2 Needle style

With the system cooled and pressure relieved, remove the nozzle and look at the tip.

Needle point sticks out = NC² (H200) or NC (MiniBlue)

No needle visible = Standard (ball and seat)

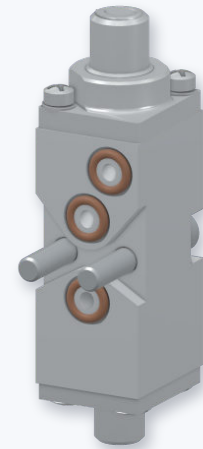
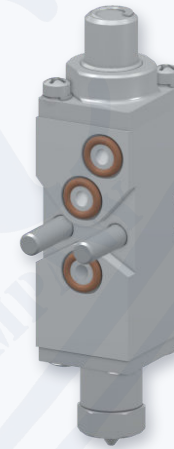
Applies to both H200 and MiniBlue.

Safety. Modules run at melt temperature and hold hydraulic and air pressure. Before removing a module or nozzle, relieve system pressure, shut off air to the gun and use heat resistant gloves and eye protection.

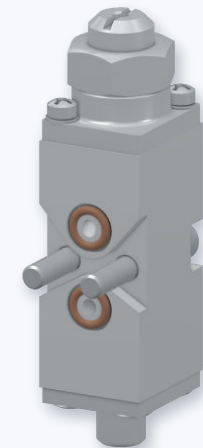
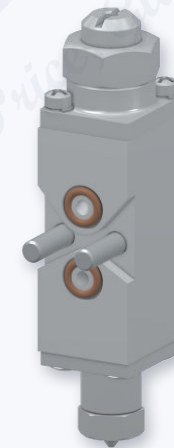
AOAC
3 ports

NC²

Standard (ball and seat)



AOSC
2 ports



H200 modules shown from the back (mounting face). Every H200 module is one of these four.

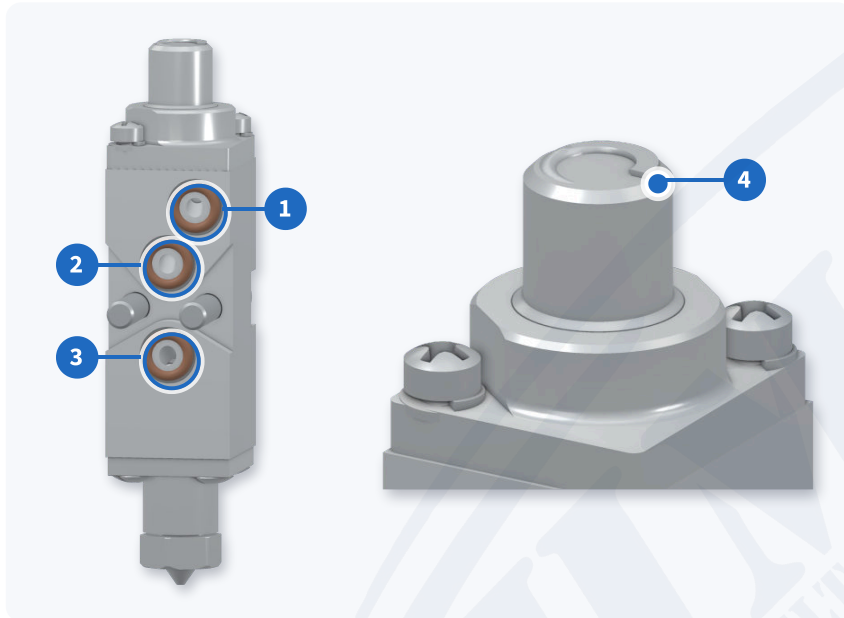


COUNT THE PORTS ON THE BACK

Check 1: Air Type (H200)

Module Identification and Ordering Guide

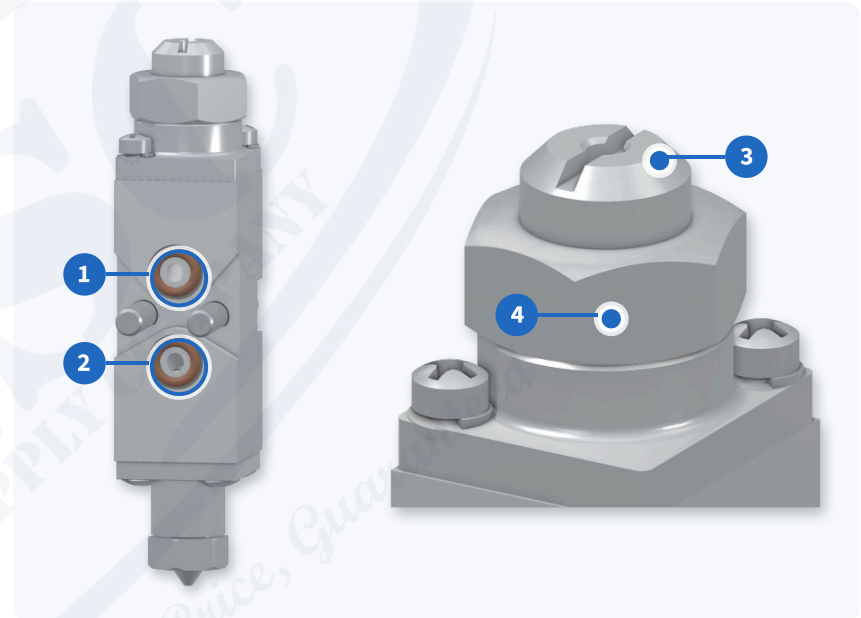
AOAC Air Open Air Closed



- 1 **Air close port.** The third port. Only AOAC modules have it.
- 2 **Air open port.**
- 3 **Hot melt port.**
- 4 **Fixed air cap.** Smooth top, no adjusting screw and no lock nut.

Air opens the module and air closes it. No spring adjustment.

AOSC Air Open Spring Closed



- 1 **Air open port.**
- 2 **Hot melt port.** Only two ports, no air close port.
- 3 **Adjustable air cap.** Slotted adjusting screw on top.
- 4 **Lock nut** holds the adjustment.

Air opens the module and a spring closes it. The adjusting screw sets spring force.

Quick tell with the module still installed: a hex lock nut and slotted screw on top of the module means AOSC. A plain round cap means AOAC. Confirm by counting the ports on the back when the module is off.



REMOVE THE NOZZLE AND LOOK AT THE TIP

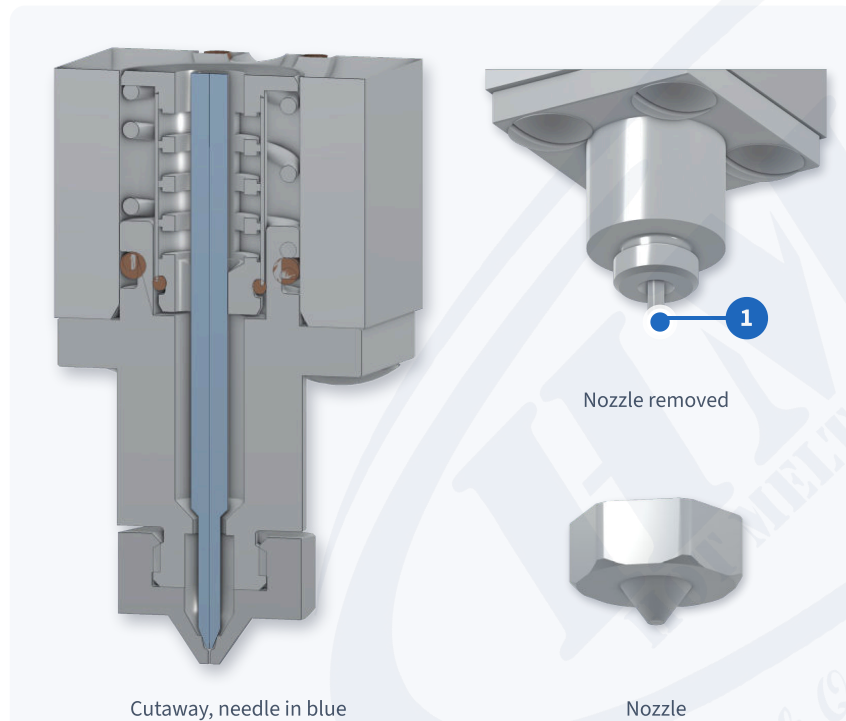
Check 2: Needle Style

Module Identification and Ordering Guide

Before you remove a nozzle: relieve hydraulic pressure, shut off air to the gun, and wear heat resistant gloves and eye protection. Remove nozzles only as the equipment manual directs.

NC² /
NC

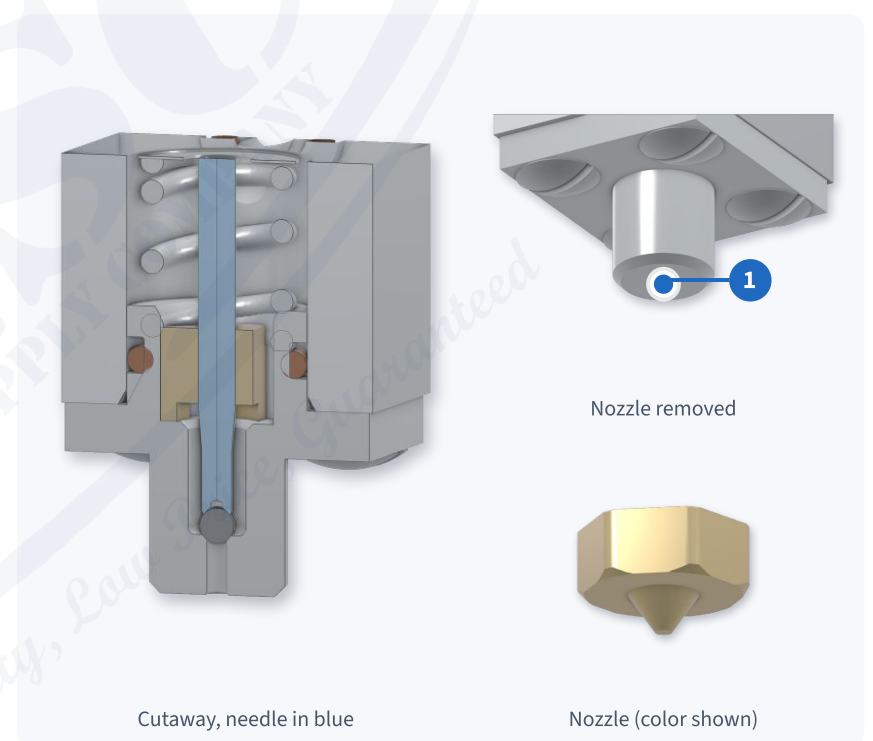
Needle closes at the orifice. NC² on H200, NC on mini modules



1 Sharp needle point sticks out past the end of the module once the nozzle is off.

- Needle is pointed and seals inside the nozzle, close to the orifice.
- Nozzles are **stainless steel** (silver color).

Standard Ball and seat



1 No needle visible. You see only the seat face and its small outlet hole.

- A carbide ball on the needle closes against a seat inside the module.
- Nozzles are **brass** (yellow color).



Quick Reference

H200 modules

What to check	AOAC Air Open Air Closed	AOSC Air Open Spring Closed
Ports on the back	3 (hot melt, air open, air close)	2 (hot melt, air open)
Air cap	Fixed, plain round top	Adjustable, slotted screw and lock nut
How it closes	Air	Spring

What to check	NC ²	Standard (ball and seat)
Nozzle removed	Sharp needle point sticks out	No needle visible
Nozzle material	Stainless steel (silver)	Brass (yellow)
Shut off	Needle point at the orifice	Carbide ball on a seat

An H200 module is one of four types: **AOAC NC²**, **AOAC Standard**, **AOSC NC²** or **AOSC Standard**.

Mini modules

All mini modules are AOAC (Air Open Air Closed). There is no AOSC mini module, so skip Check 1.

Use Check 2 to tell the two types apart. The signs are the same as on the H200:

- **NC:** needle point sticks out with the nozzle off, stainless steel nozzles.
- **Standard (ball and seat):** no needle visible with the nozzle off, brass nozzles.

A mini module is one of two types: **AOAC NC** or **AOAC Standard**.

When you call or order

- Module family: H200 or mini
- Air type: AOAC or AOSC
- Needle style: NC² (H200), NC (mini) or Standard
- Nozzle orifice size, if replacing nozzles
- Gun model and number of modules



SET UP AND QUALITY

Air Pressure and Module Testing

Module Identification and Ordering Guide

Minimum applicator air pressure

To operate at this hydraulic pressure	Minimum applicator air pressure
550 to 1,300 psi (38 to 90 bar)*	55 psi (3.8 bar)*
400 to 1,300 psi (28 to 90 bar)	65 psi (4.5 bar)
250 to 1,300 psi (17 to 90 bar)	75 psi (5.2 bar)

**HMSC factory setting. 60 psi (4.1 bar) is the nominal standard solenoid air pressure.*

Set the applicator air at or above the minimum for your hydraulic pressure.
Too little air pressure can keep the module from opening fully.

How we build and test every module

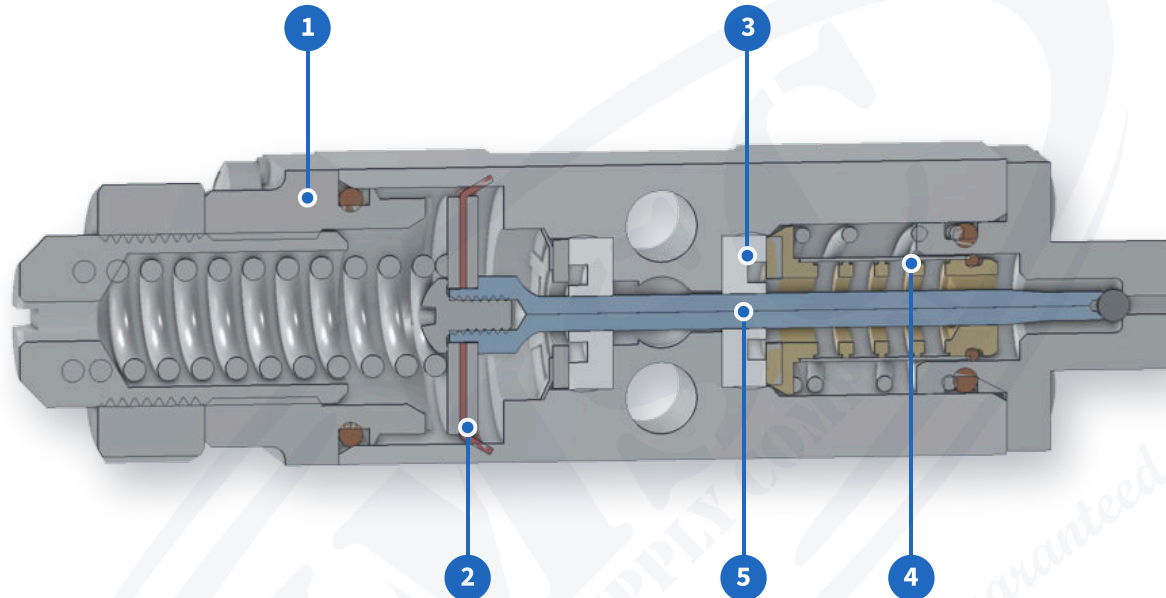
- 1 Precision machined**
All machined components are made in an ISO 9001 certified machine shop and fully dimensionally inspected for the highest machining quality.
- 2 Hand assembled**
Every module is assembled by hand, following our shop assembly procedure.
- 3 Opening pressure test**
Once assembled, every module is tested to make sure it opens at the minimum opening pressure.
- 4 Functionality and flow test**
Our proprietary testing process functionally tests each module to make sure it operates at high speed and fully opens and closes.
- 5 Complete seal test**
The final stage of our testing uses a proprietary procedure to make sure the module seals completely when closed, so the parts we ship work as advertised when installed.



WHAT SETS OUR MODULES APART

H200 Standard Module Features

Module Identification and Ordering Guide



Cutaway of the ball and seat (filtered) module T10F29B5S-F (AOSC, internal filter). Needle shown in blue.

- 1 Stroke limiting air cap**
The air cap limits needle stroke. Less travel means less wear on the needle and seals.
- 2 Rulon air piston seals**
The highest quality Rulon seals on the air piston.
- 3 PTFE spring seals**
High quality spring loaded PTFE seals in every module.
- 4 Pressure reduction system**
Ball and seat (filtered) modules T10F29B5S-F100 (100 mesh) and F200 (200 mesh). The entry level T10F29B5S and T10F29B7S use the standard seal design.
Our proprietary brass internal filter lowers the pressure on the hydraulic seal.
- 5 NiOx coated needle**
Coated for a smoother surface and longer life.

In every module

Swiss CNC machined

Components are cut on Swiss CNC machines to the highest precision and finish possible.

Hand assembled and fluid tested

Each module is hand assembled and high pressure fluid tested before it ships, so it works as expected.

100 / 200 mesh filtration

Our filters stop hundreds of nozzle clogs before they clog themselves. That means more uptime and fewer wasted boxes from clogged nozzles.



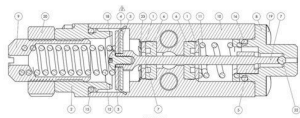
H200 Standard Modules

Module Identification and Ordering Guide

Ball and seat • brass nozzles • no needle visible with the nozzle off



HIGH QUALITY REPLACEMENT
GUN MODULE



HMS-M-1052925

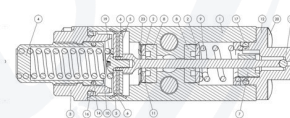
SKU T10F29B5S

Replaces Nordson 1052925

AOSC (Air Open Spring Closed) • entry level



HIGH QUALITY REPLACEMENT
GUN MODULE



HMS-M-1052927

SKU T10F29B7S

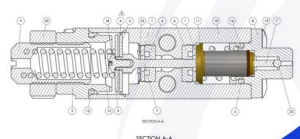
Replaces Nordson 1052927

AOAC (Air Open Air Closed) • entry level



LEGACY SERIES

Filtered



T10F29B5S-F100

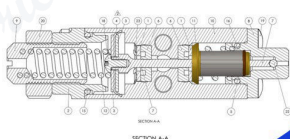
Replaces Nordson 1052925

**AOSC (Air Open Spring Closed) • ball and seat
(filtered, 100 mesh)**



LEGACY SERIES

Filtered



T10F29B5S-F200

Replaces Nordson 1052925

**AOSC (Air Open Spring Closed) • ball and seat
(filtered, 200 mesh)**



Filtered module upgrade

For tough applications, such as small orifices (.008 and .012) or right angle applications, we recommend our filtered modules. A 100 or 200 mesh filter sits just ahead of the nozzle and catches char and debris before it can plug the orifice. We have had a lot of success with this upgrade in the field. Filtered options: ball and seat (filtered) modules **T10F29B5S-F100** (100 mesh) and **T10F29B5S-F200** (200 mesh) for 1052925 AOSC modules.

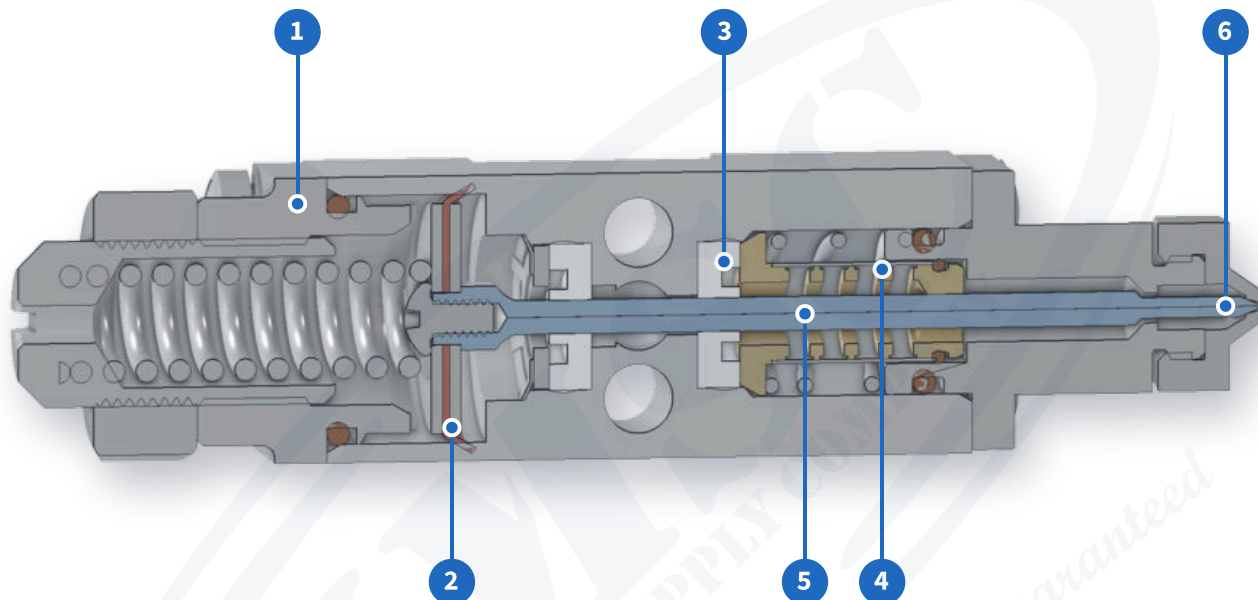
Photos from www.hotmeltsupplyco.com. Scan a QR code or click a card to open that product page. Orifice sizes in inches.



WHAT SETS OUR MODULES APART

H200 NC² AOSC Module Features

Module Identification and Ordering Guide



Cutaway of an H200 NC² AOSC module (Air Open Spring Closed). Needle shown in blue.

- 1 Stroke limiting air cap**
The air cap limits needle stroke. Less travel means less wear on the needle and seals.
- 2 Rulon air piston seals**
The highest quality Rulon seals on the air piston.
- 3 PTFE spring seals**
High quality spring loaded PTFE seals in every module.
- 4 Pressure reduction system**
Our proprietary brass internal filter lowers the pressure on the hydraulic seal.
- 5 NiOx coated needle**
Coated for a smoother surface and longer life.
- 6 Needle and seat design**
The needle and seat design reduces nozzle clogs and clears them as they occur.

In every module

Swiss CNC machined

Components are cut on Swiss CNC machines to the highest precision and finish possible.

Hand assembled and fluid tested

Each module is hand assembled and high pressure fluid tested before it ships, so it works as expected.

100 / 200 mesh filtration

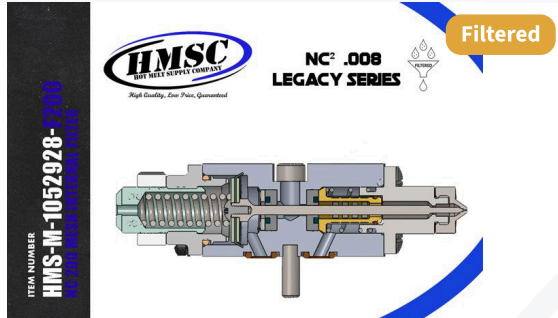
Our filters stop hundreds of nozzle clogs before they clog themselves. That means more uptime and fewer wasted boxes from clogged nozzles.



H200 NC² Modules: AOSC

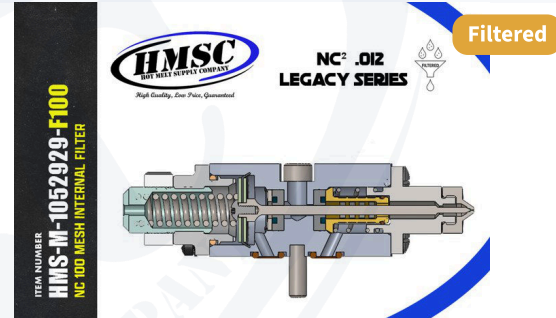
Module Identification and Ordering Guide

AOSC = Air Open Spring Closed • Legacy NC² • 2 ports on the back • needle point visible with the nozzle off



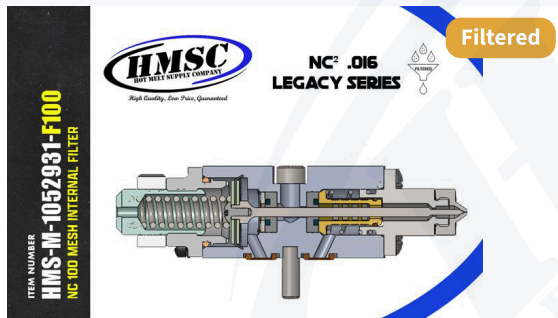
HMS-M-1052928-F200

Replaces Nordson 1052928
.008 • 200 mesh



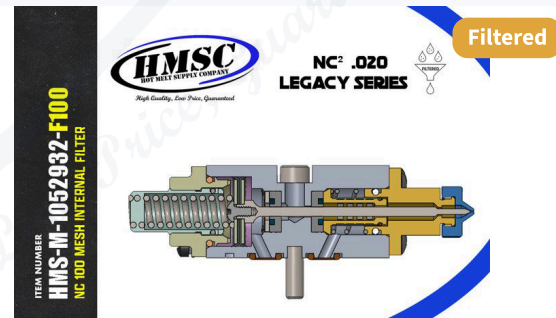
HMS-M-1052929-F100

Replaces Nordson 1052929
.012 • 100 mesh



HMS-M-1052931-F100

Replaces Nordson 1052931
.016 • 100 mesh



HMS-M-1052932-F100

Replaces Nordson 1052932
.020 • 100 mesh



Filtered module upgrade

For tough applications, such as small orifices (.008 and .012) or right angle applications, we recommend our filtered modules. A 100 or 200 mesh filter sits just ahead of the nozzle and catches char and debris before it can plug the orifice. We have had a lot of success with this upgrade in the field. Every H200 NC² module on this page has the filter built in.

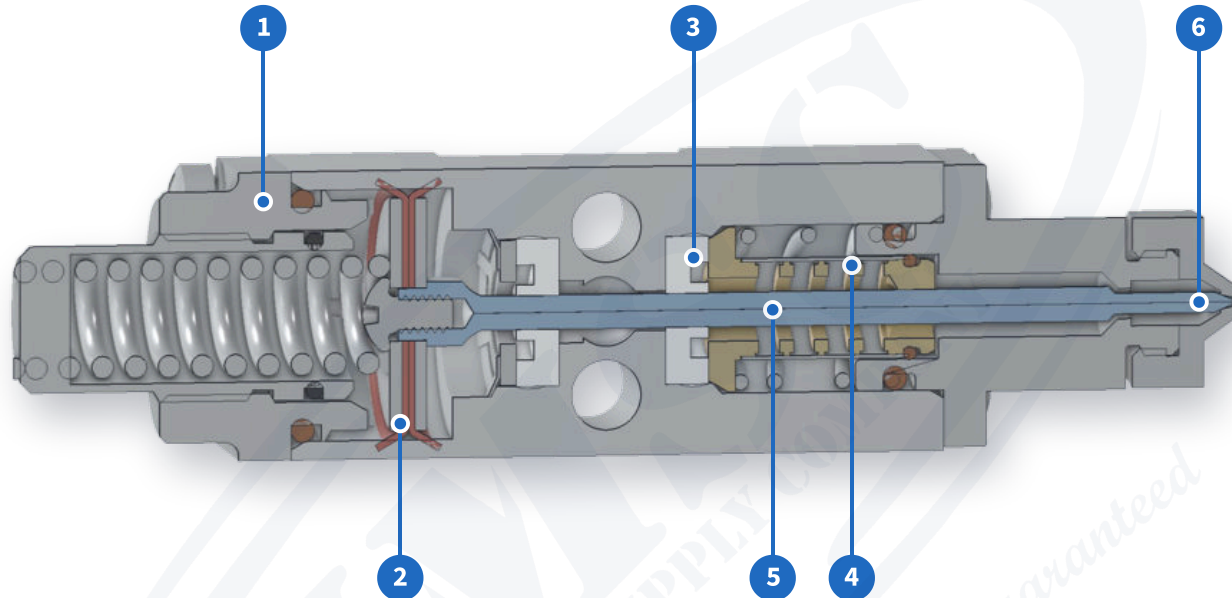
Photos from www.hotmeltsupplyco.com. Scan a QR code or click a card to open that product page. Orifice sizes in inches.



WHAT SETS OUR MODULES APART

H200 NC² AOAC Module Features

Module Identification and Ordering Guide



Cutaway of an H200 NC² AOAC module (Air Open Air Closed). Needle shown in blue.

- 1 Stroke limiting air cap**
The air cap limits needle stroke. Less travel means less wear on the needle and seals.
- 2 Rulon air piston seals**
The highest quality Rulon seals on the air piston.
- 3 PTFE spring seals**
High quality spring loaded PTFE seals in every module.
- 4 Pressure reduction system**
Our proprietary brass internal filter lowers the pressure on the hydraulic seal.
- 5 NiOx coated needle**
Coated for a smoother surface and longer life.
- 6 Needle and seat design**
The needle and seat design reduces nozzle clogs and clears them as they occur.

In every module

Swiss CNC machined

Components are cut on Swiss CNC machines to the highest precision and finish possible.

Hand assembled and fluid tested

Each module is hand assembled and high pressure fluid tested before it ships, so it works as expected.

100 / 200 mesh filtration

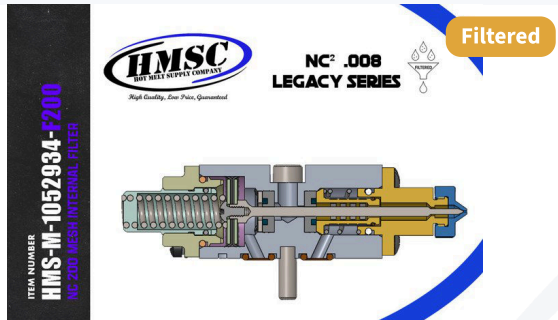
Our filters stop hundreds of nozzle clogs before they clog themselves. That means more uptime and fewer wasted boxes from clogged nozzles.



H200 NC² Modules: AOAC

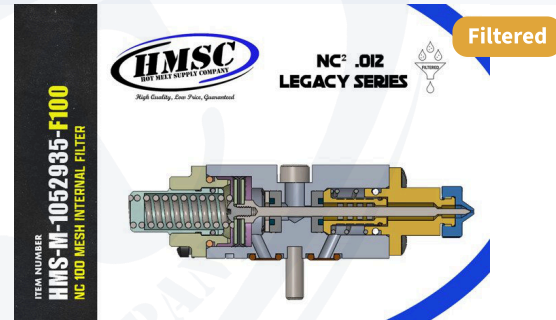
Module Identification and Ordering Guide

AOAC = Air Open Air Closed · Legacy NC² · 3 ports on the back · needle point visible with the nozzle off



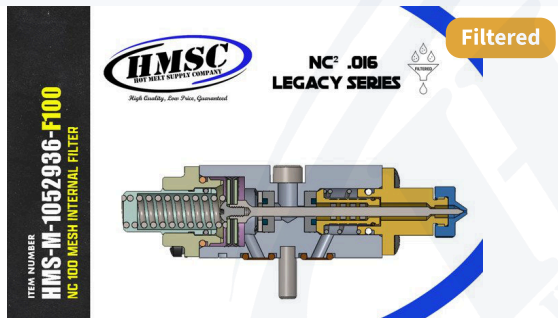
HMS-M-1052934-F200

Replaces Nordson 1052934
.008 · 200 mesh



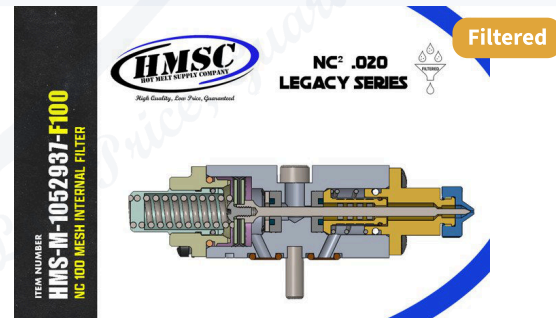
HMS-M-1052935-F100

Replaces Nordson 1052935
.012 · 100 mesh



HMS-M-1052936-F100

Replaces Nordson 1052936
.016 · 100 mesh



HMS-M-1052937-F100

Replaces Nordson 1052937
.020 · 100 mesh



Filtered module upgrade

For tough applications, such as small orifices (.008 and .012) or right angle applications, we recommend our filtered modules. A 100 or 200 mesh filter sits just ahead of the nozzle and catches char and debris before it can plug the orifice. We have had a lot of success with this upgrade in the field. Every H200 NC² module on this page has the filter built in.

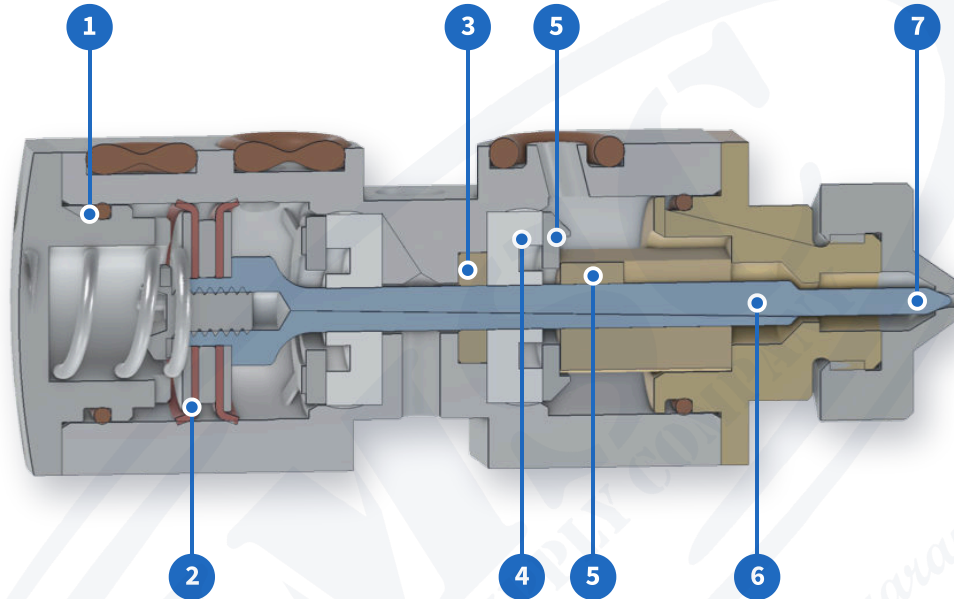
Photos from www.hotmeltsupplyco.com. Scan a QR code or click a card to open that product page. Orifice sizes in inches.



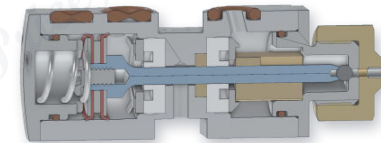
WHAT SETS OUR MODULES APART

Mini Ball and Seat and NC Module Features

Module Identification and Ordering Guide



Mini NC, HMS-M-1121479 to 1121484. Needle shown in blue.



Standard (ball and seat), HMS-M-1095703: same features except the NC needle and seat. Both mini modules are AOAC (Air Open Air Closed).

- 1 Stroke limiting air cap**
The air cap limits needle stroke. Less travel means less wear on the needle and seals.
- 2 Rulon air piston seals**
The highest quality Rulon seals on the air piston.
- 3 Precision wiper**
Sits after the hydraulic seal. If the seal ever fails, it limits contamination reaching the pneumatics.
- 4 PTFE spring seals**
High quality spring loaded PTFE seals in every module.
- 5 Pressure reduction system**
Our proprietary brass triangle spacer and precision washer lower the pressure on the hydraulic seal.
- 6 NiOx coated needle**
Coated for a smoother surface and longer life.
- 7 Needle and seat design**
The needle and seat design reduces nozzle clogs and clears them as they occur.

In every module

Swiss CNC machined

Components are cut on Swiss CNC machines to the highest precision and finish possible.

Hand assembled and fluid tested

Each module is hand assembled and high pressure fluid tested before it ships, so it works as expected.



Mini Ball and Seat and NC Modules

Module Identification and Ordering Guide

All mini modules are AOAC (Air Open Air Closed) · standard (ball and seat) or NC



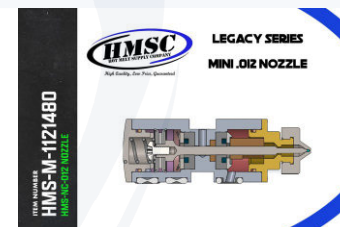
HMS-M-1095703

Replaces Nordson 1095703
Standard (ball and seat)



HMS-M-1121479

Replaces Nordson 1121479
NC · .008



HMS-M-1121480

Replaces Nordson 1121480
NC · .012



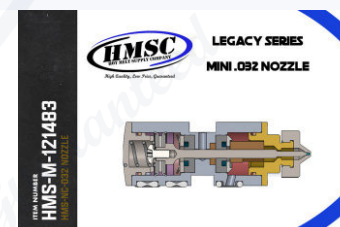
HMS-M-1121481

Replaces Nordson 1121481
NC · .016



HMS-M-1121482

Replaces Nordson 1121482
NC · .020



HMS-M-1121483

Replaces Nordson 1121483
NC · .032



HMS-M-1121484

Replaces Nordson 1121484
NC · .040



Which one do I have?

Remove the nozzle.

Needle point visible: NC.

No needle visible: Standard (ball and seat).

See Check 2 on page 2-3.

www.hotmeltsupplyco.com

Search any part number for pricing and stock, or call
1-888-202-1788.

Photos from www.hotmeltsupplyco.com. Scan a QR code or click a card to open that product page. Orifice sizes in inches.



Notes

