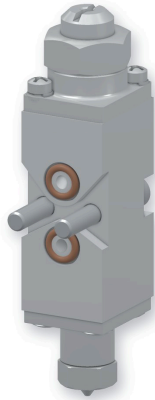




H200 NC² Module, AOSC, .012 Orifice, 100 Mesh

H200 NC² needle module, Air Open Spring Closed (AOSC), with a .012 orifice and a built in 100 mesh filter. Replaces Nordson 1052929 in H200 guns.

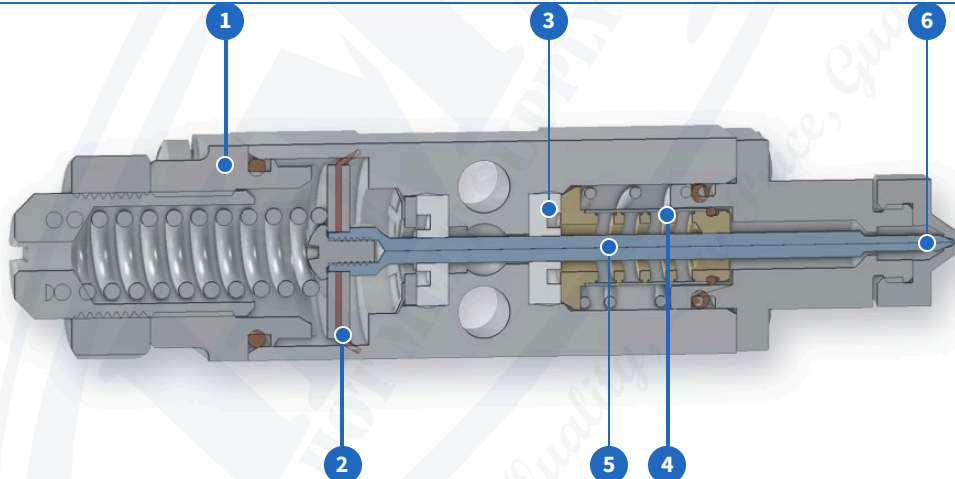


Shown from the back (mounting face): 2 ports

Specifications

Replaces Nordson	1052929
Module family	H200 NC ²
Fits	H200 guns
Actuation	Air Open Spring Closed (AOSC)
Shut off	Needle point at the orifice
Orifice	.012 in
Filter	Built in, 100 mesh
Nozzle, installed	Stainless steel, 45 in-lb torque
Ports on the back	2 (hot melt, air open)
Air cap	Adjustable, slotted screw and lock nut
Gun code, module type	SURS

Construction and features



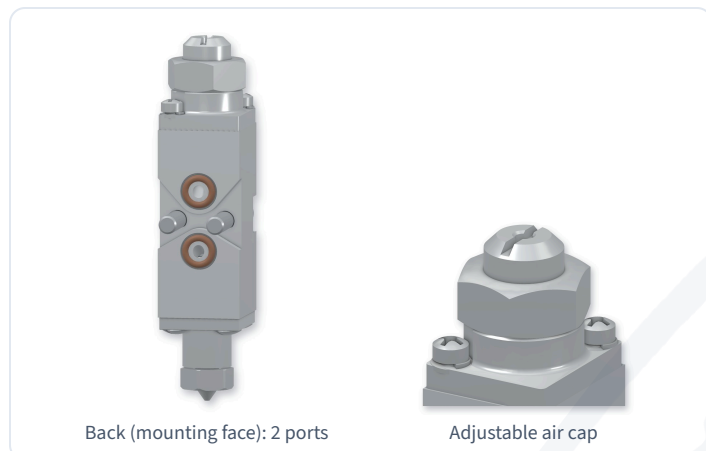
Cutaway of the H200 NC² AOSC module. Needle shown in blue. Numbers match the features below.

- 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.** Rulon seals on the air piston.
 - 3 PTFE spring seals.** 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.
- Swiss CNC machined.** Components are cut on Swiss CNC machines for precision and finish.
 - 100 mesh filtration.** A 100 mesh filter sits just ahead of the nozzle and catches char and debris before it can plug the orifice.





Air type: Air Open Spring Closed (AOSC)



- Two ports on the back: hot melt and air open. There is no air close port.
- Adjustable air cap: slotted adjusting screw on top, and a 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 installed: a hex lock nut and slotted screw on top means AOSC. A plain round cap means AOAC.

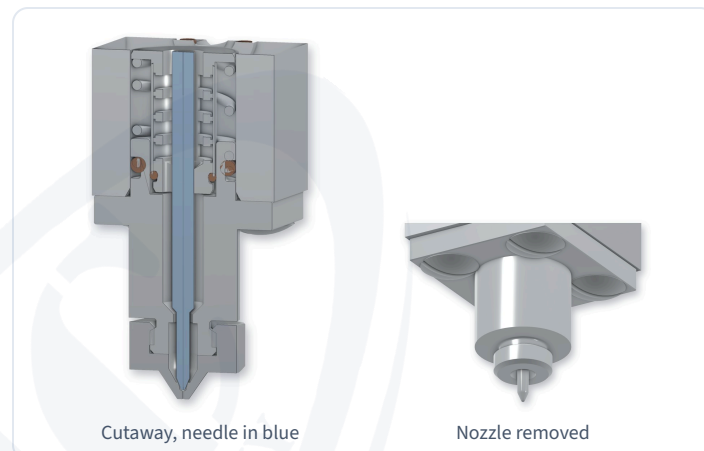
Minimum applicator air pressure

To operate at this hydraulic pressure	Minimum applicator air
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.

Needle style: NC² (needle point)



- With the nozzle off, a sharp needle point sticks out past the end of the module.
- The needle is pointed and seals inside the nozzle, close to the orifice.
- Nozzles are stainless steel (silver color).

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.
- 2 **Hand assembled.** Every module is assembled by hand, following our shop assembly procedure.
- 3 **Opening pressure test.** Every module is tested to make sure it opens at the minimum opening pressure.
- 4 **Functionality and flow test.** Our proprietary testing process checks that each module operates at high speed and fully opens and closes.
- 5 **Complete seal test.** A final proprietary test makes sure the module seals completely when closed.

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.

Related modules

[HMS-M-1052928-F200 \(.008, 200 mesh\)](#)[HMS-M-1052931-F100 \(.016, 100 mesh\)](#)[HMS-M-1052932-F100 \(.020, 100 mesh\)](#)[HMS-M-1052935-F100 \(AOAC, .012\)](#)