

SMI multi-couplings

Temperature control



Application

Compact and ergonomic centralized connections









The SMI multi-connection system is the perfect solution for small injection molding machines. This compact and ergonomic system offers outstanding flexibility, as it can be easily installed on both new and existing injection molding machines and molds.

Implementing the SMI multi-connection system guarantees correct mold set-ups reducing scrap, boosting production efficiency, and ensuring operator safety.

Key advantages



Fits on small machines and molds:

The compact layout, low-profile locking mechanism, and small mounting footprint are perfect for applications where space is limited.



Easy to use:

The intuitive and ergonomic design ensures anyone can operate the system without special training, skills, or tools, making work easier, safer, and efficient for all employees.



Eliminates mold set-up mistakes:

Mechanically designed to prevent any cross-connection of water circuits, eliminating set-up scrap and machine downtime for errors.



Increases production time:

All circuits are connected and disconnected simultaneously, in a single action at a single location, significantly reducing downtime during mold changes.



Brings standardization:

Connections and disconnections across all machines and molds become identical, reducing variability in the mold change and molding processes, creating a foundation for Lean Manufacturing.



The opportunity to contribute to a sustainable

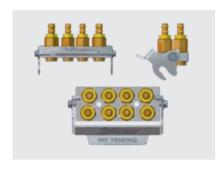
development programme

With Stäubli, you can rely on:

- the overall performance of your equipment (OEE) reliability of long-term investments
- no workplace pollution



Technical characteristics





Construction

- Couplings: brass / nickel-plated brass
- Aluminum plates

Seals

• Fluorocarbon (FPM): JV

Machine side

Mold side

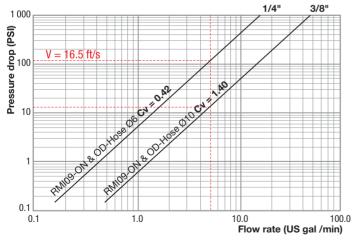
SMI 209 features (1)

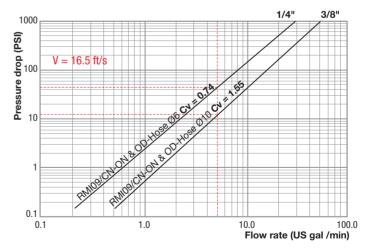
		1/4"	1/4" CN *	3/8"	3/8" CN *	
Nominal dia	meter DN (in.)	1/4"	1/4"	3/8"	3/8"	
Maximum a	llowable pressure PS (PSI)(1)	145	145	145	145	
Minimum ar	nd maximum allowable ⁽²⁾ es TS (°F)	+59 to +248 +59 to +194 +59 to +248 +59 to +		+59 to +194		
Machine side		shut-off sockets - ○→				
Shut-off	Mold side	full flow ←				
	Mold side	auto shut-off ⊷				

^{*} self-locking hose

Flow rate / pressure drop

Hydraulic charts







Check that max. pressure and min./max. working temperatures of hoses and of the connection are not exceeded.

⁽²⁾ Make sure to distribute the inlet/ outlet circuits so as to balance the pressures on either side of the locking system.



Part-numbers

SMI 209.08

Machine-side plates with 8 sockets	End connection	Part-numbers
For flexible hose with auto shut-off socket	1/4" int. Ø	SMI209.08.1806/JV
	3/8" int. Ø	SMI209.08.1810/JV
THE PERONS		
For self-clamping flexible hose with auto shut-off socket	1/4" int. Ø	SMI209.08.1806/CN/JV
	3/8" int. Ø	SMI209.08.1810/CN/JV

Mold-side plates with 8 plugs				End connection	Part-numbers
For flexible hose			with full flow plugs	1/4" int. Ø	SMI209.08.6806/RE
	暴暴		with auto shut-off plugs	3/8" int. Ø	SMI209.08.6810/RE
84		-0000-		1/4" int. Ø	SMI209.08.7806/JV/RE
	C O	-0000-		3/8" int. Ø	SMI209.08.7810/JV/RE
For self-clamping flexible hose with full flow plugs					
For self-clamping flexible hose			with full flow plugs	1/4" int. Ø	SMI209.08.6806/CN/RE
For self-clamping flexible hose	A AI		with full flow plugs	3/8" int. Ø	SMI209.08.6806/CN/RE SMI209.08.6810/CN/RE
For self-clamping flexible hose	A.A.	m 0 00 0 m	with full flow plugs with auto shut-off plugs		





SMI209.04.7810/CN/JV/RE

End connection Part-numbers

3/8" int. Ø

Part-numbers

SMI 209.04

Mold-side plates with 4 plugs

For flexible hose			with full flow plugs	1/4" int. Ø	SMI209.04.6806/RE
	風風			3/8"» int. Ø	SMI209.04.6810/RE
81		- 0 D C 0 -		1/4" int. Ø	SMI209.04.7806/JV/RE
	(6) (6)	000		3/8" int. Ø	SMI209.04.7810/JV/RE
For self-clamping flexible	nose		with full flow plugs	1/4" int. Ø	SMI209.04.6806/CN/RE
	3 31			3/8" int. Ø	SMI209.04.6810/CN/RE



Additional equipment

Side shield



Model	Part-number
SMI 209	100091384

Protective piece for the mold-side plate to prevent impacts from damaging the plugs.

Socket for purging individual lines

Socket with shut-off valve for flexible hoses



	Dimensions (in.)					Part-numbers
	Models	Ø	ØA	В	С	Part-Humbers
for flexible hose	RMI 09	0.39	0.98	2.60	0.91	RMI 09.1810/JV
for self-clamping flexible hose	RMI 09	0.39	0.98	2.60	0.91	RMI 09.1810/CN/JV

Spare parts

For flexible hoses

Models		End connection	Part-numbers
	Full flow	1/4" int. Ø	RMI09.4806/RE1
-	ruii iiow	3/8" int. Ø	RMI09.4810/RE1
	Auto shut off	1/4" int. Ø	RMI09.5806/JV/RE1
	Auto shut on	3/8" int. Ø	RMI09.5810/JV/RE1

For self clamping hoses

Models		End connection	Part-numbers
	Full flow	1/4" int. Ø	RMI09.4806/CN/RE1
	Full HOW	3/8" int. Ø	RMI09.4810/CN/RE1
	Auto shut off	1/4" int. Ø	RMI09.5806/CN/JV/RE1
	Auto Shut on	3/8" int. Ø	RMI09.5810/CN/JV/RE1

For flexible hoses

Models		End connection	Part-numbers
	Full flow	1/4" int. Ø	RMI09.4806/RE2
-	ruii ilow	3/8" int. Ø RMI09.4810/RE2	RMI09.4810/RE2
63	Auto shut off	1/4" int. Ø	RMI09.5806/JV/RE2
86	Auto Shut Oli	3/8" int. Ø	RMI09.5810/JV/RE2

For self clamping hoses

Models		End connection	Part-numbers
940	Full flow	1/4" int. Ø	RMI09.4806/CN/RE2
#	Full flow	3/8" int. Ø	RMI09.4810/CN/RE2
	Auto shut off	1/4" int. Ø	RMI09.5806/CN/JV/RE2
-	Auto shut on	3/8" int. Ø	RMI09.5810/CN/JV/RE2





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