

209N - Vertical Non-Return Valve

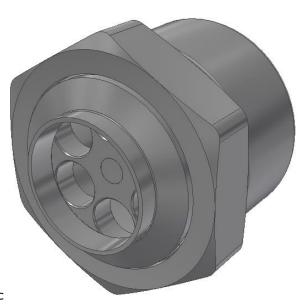
Manufactured in 316L SS our non-return valve has a light action spring that allows liquid to flow in one direction only. The standard housing is manufactured with a concentric inner chamber that allows the valve to self-drain when installed in a vertical position.

Horizontal installation will require and alternative eccentric design that is available in the Pharma version of the valve design.

The piston face is kept as large as possible to minimise the pressure drop and also to allow particles to pass through the inner flow plate/guide plate.

The housing closure method varies to match the end connections. Nuts are used to close the housings with screwed connections while clamps are used with ferrule end connections.

Suitable for C.I.P applications the valve is easily dismantled for sterilisation and the seals supplied as standard are EPDM with other materials available to order, such as silicone, Viton®/FKM and PTFE.



Size range:

1/2" to 6" BS sizes and 25 to 104mm in Metric

End Connections:

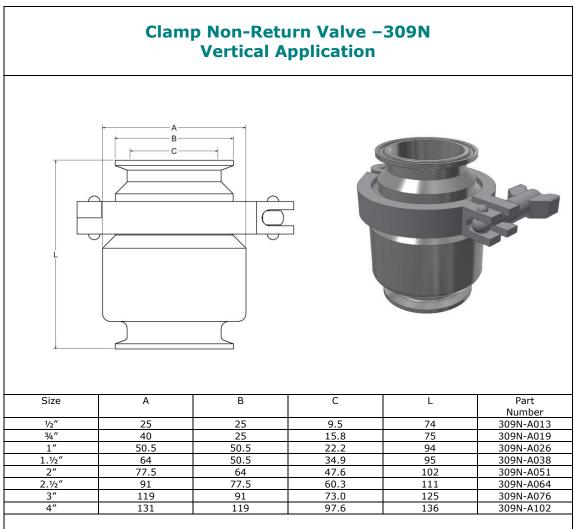
Plain butt-weld ends, Clamp, RJT, IDF, DIN 11851, ILC, SMS and BSP

We can also attach other fittings including DIN11864 and DIN11853-1/2/3

Internal Surface Finish:

The standard finish is 120 Grit which is approximately equal to 1.0 μ M Ra We offer higher finishes of 0.8 and 0.5 μ M Ra on request with printouts

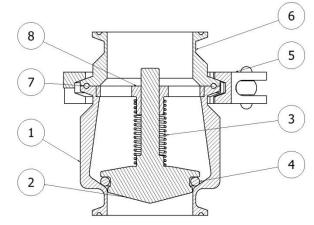




- Maximum working pressure 15 Bar (Clamp Valve only)
- High flow rate and particle size through the drilled flow plate
- Choice of PTFE, EPDM, Viton and Silicone O Rings
- Fitted with low pressure springs for vertical application
- Machined from forged bar
- Surface finish printouts available
- Material certification to EN10204 3.1
- FDA approved seals and gaskets

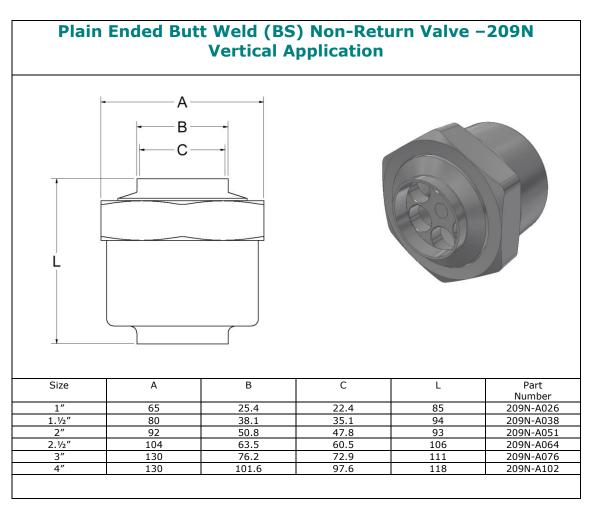
Spares List:

- 1. Valve Housing
- 2. Piston / Sutter
- 3. Spring
- 4. O Ring Seal
- 5. Clamp
- 6. Outlet
- 7. Housing Seal
- 8. Flow Plate / Diaphragm



Clamp Valve for illustration only

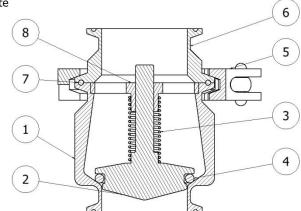




- Maximum working pressure 10 Bar
- High flow rate and particle size through the drilled flow plate
- Choice of PTFE, EPDM, Viton and Silicone O Rings
- Fitted with low pressure springs for vertical application
- Machined from Forged Bar
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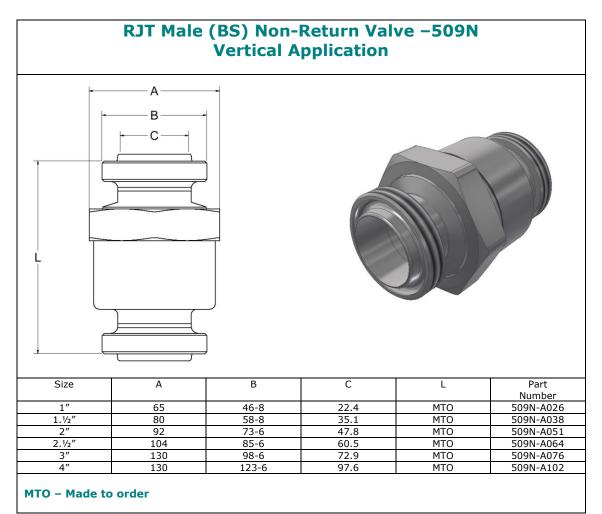
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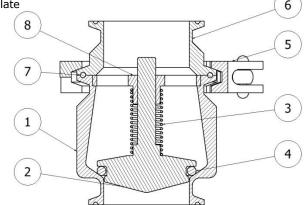




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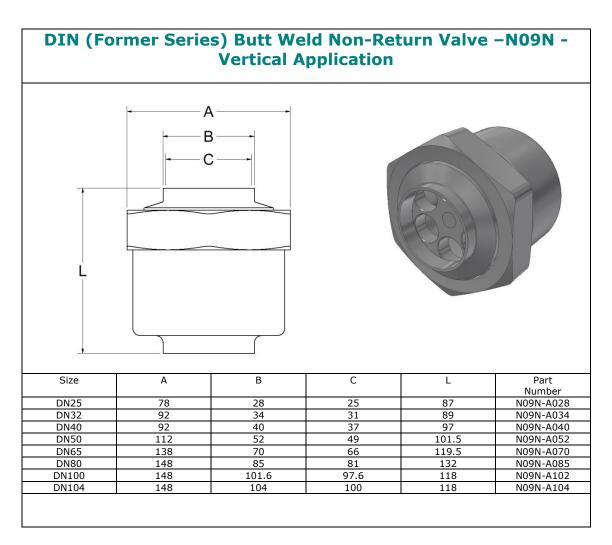
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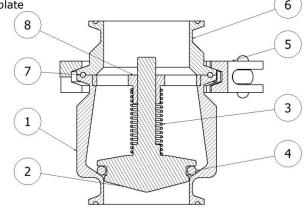




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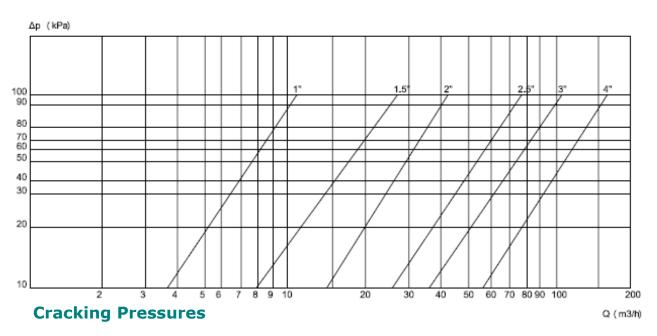
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Flow Diagram



209N - NRV Vertical Cracking Pressures Range given in Bar				
Size	Direction of Flow	Min	Max	
25	Α	0.152	1.283	
	В	0.116	1.247	
28	Α	0.119	0.996	
	В	0.089	0.966	
38/40	Α	0.055	0.418	
	В	0.029	0.392	
51	Α	0.036	0.228	T
	В	0.008	0.200	
63	Α	0.083	0.101	
	В	0.057	0.075	
70	Α	0.073	0.089	
	В	0.046	0.061	
76	Α	0.069	-	
	В	0.040	-	
85	Α	0.063	-	. ↓
	В	0.036	-	В