



Wafer Style Check Valve

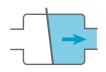
### Description

A.R.I. NR-010 Check Valve allows for one-directional flow, preventing the return flow of the liquid to its source and provides quiet closure and total sealing of the sealing face.

### > Installation

- Downstream of pumps and boosters
- Filtration systems
- Swimming pools (additional modifications required)
- Municipal water conveyance systems





One Way



### Features and Benefits

UV resistant polymers, reinforced and rubber materials	Corrosion and scale resistant, long working life
Quick, spring-assisted closure	Water hammer mitigation
Specially chosen materials	Withstands highly abrasive conditions, long-term service in corrosive liquid environments
1 ½", 2" models - removable cover	Easy cleaning, maintenance and seal replacement without need to remove from the pipeline
3"- 10" models - spring assembly mechanism outside the flow	Easily maintained without need to remove from the pipeline

#### > Technical Specifications

Size range	1½", 2" female threaded - BSPT / NPT 3"- 10" between flanges			
Working pressure range	0.2 - 10 bar (sizes 1½" - 10") 0.2 - 16 bar (sizes 1½" - 8")			
Temperature	Maximum working temperature: 60° C			
For best suitability, it is recommended to send the fluid chemical properties along with the valve request.				

Upon ordering, please specify: model, size, working pressure, thread/flange standard and type of liquid.

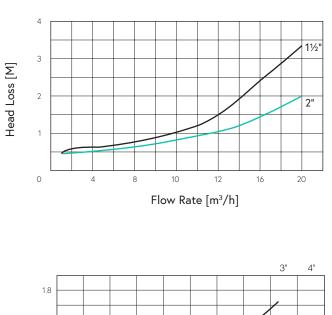
### Valve Selection Options

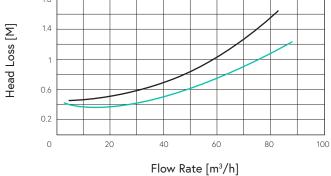
- Manufactured according to any standard flange requirement
- Limit switch add-on
- 11/2", 2" model up to four 1/8" side ports for measuring pressure / pressure release cocks / command lines for external controls
- NR-010-LS limit switch transmits a contact signal at start or stop of flow
- NR-010-FV foot valve with screen (3"-10")

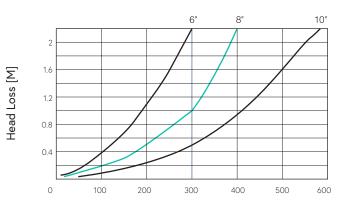
**△ A.R.I.** NR-010

Head Loss









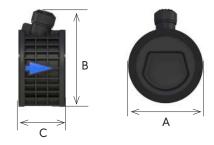
Flow Rate  $[m^3/h]$ 

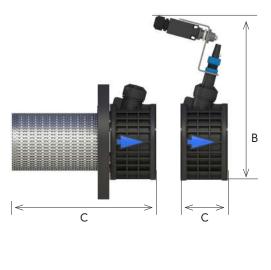


#### Dimensions and Weight

Model	Dim	nensions (i	Weight (kg)		
	Α	В	С		
A.R.I. NR-010 1 1/2"	65	149	133	0.63	
A.R.I. NR-010 LS 1 1/2"	65	258	133	0.89	
A.R.I. NR-010 FV 1 1/2"	65	149	225	0.95	
A.R.I. NR-010 2"	76	157	133	0.65	
A.R.I. NR-010 LS 2"	76	267	133	0.92	
A.R.I. NR-010 FV 2"	76	157	267	1.0	
A.R.I. NR-010 3"	131	172	80	0.66	
A.R.I. NR-010 LS 3"	131	308	80	0.77	
A.R.I. NR-010 FV 3"	207	207	226	1.3	
A.R.I. NR-010 4"	151	190	90	0.9	
A.R.I. NR-010 LS 4"	151	325	90	1.17	
A.R.I. NR-010 FV 4"	233	233	286	2.17	
A.R.I. NR-010 6"	220	291	107	2.6	
A.R.I. NR-010 LS 6"	220	380	107	3	
A.R.I. NR-010 FV 6"	324	324	414	5.5	
A.R.I. NR-010 8"	256	323	132	3.7	
A.R.I. NR-010 LS 8"	256	415	132	3.8	
A.R.I. NR-010 FV 8"	340	365	575	8	
A.R.I. NR-010 10"	308	399	145	5.2	
A.R.I. NR-010 LS 10"	308	465	145	5.7	
A.R.I. NR-010 FV 10"	410	425	688	11	







#### NOTE

For determining the height of a check valve with a limit switch, add an additional space of 2 - 3 cm.

All product weights and dimensions are approximate, due to the differences in flange standards, materials and variable accessories.



#### Parts List and Specifications | 1½" 2"

	Part	Material
1	Model A.R.I. NR-010 LS	
	Limit Switch Assembly	Reinforced Nylon + Acetal + Stainless Steel 316
	O-ring	NBR
2	Cover	Reinforced Nylon
3	Spring	SAE 302
	Spring Housing	Acetal
4	Disk Assembly	
	Disk	Reinforced Nylon
	Seal	EPDM
	Shaft	Stainless Steel 316
5	Body Assembly	
	Body	Reinforced Nylon
	O-ring	NBR
6	Model A.R.I. NR-010 FV	
	Foot Valve Assembly	Reinforced Nylon + Stainless Steel 316







Model NR-010 FV



Model NR-010 LS

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#### Parts List and Specifications | 3" 4"

	Part	Material		
1	Model A.R.I. NR-010 LS			
	Limit Switch Assembly	Reinforced Nylon + Acetal + Stainless Steel 316		
2	Spring	SAE 302		
	Spring Housing	Acetal		
3	Flap Assembly			
	Flap	Reinforced Nylon + Stainless Steel 316		
	Flap Seal	EPDM		
4	Body Assembly			
	Body Seal	EPDM		
	Body	Reinforced Nylon		
	O-ring	NBR		
	Body Seal	EPDM		
5	Model A.R.I. NR-010 FV			
	Screen	Stainless Steel 316		
	Flange	Reinforced Nylon		

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Model NR-010 FV



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Model NR-010 LS

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#### Parts List and Specifications | 6" 8"

	Part	Material			
1	Model A.R.I. NR-010 LS				
	Limit Switch Assembly	Reinforced Nylon + Acetal + Stainless Steel 316			
2	Spring	SAE 302	SAE 302		
	Spring Housing	Acetal	Acetal		
3	Flap Assembly				
	Flap	Reinforced Nylon + Stainless Steel 316			
	Flap Seal	EPDM			
4	Body Assembly				
	Body Seal	EPDM			
	Body	Reinforced Nylon			
	O-ring	NBR			
	Body Seal	EPDM	-		
5	Model A.R.I. NR-010 FV				
	Screen	Stainless Steel 316			
	Flange	PVC	]		





Model NR-010 FV



Model NR-010 LS

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# **△ A.R.I.** NR-010 FV



### > Wafer Style Check Valve - Foot Valve

The A.R.I. NR-010 line of Foot Valves is a non-return spring-loaded check valve with a perforated screen. The valve is installed on the intake suction pipe below the water level, maintaining a full suction pipe.

Such an installation is essential in pumps that intake from a lower water level when the pump does not include a self-priming mechanism, which saves the need to operate vacuum pumps for pump start up.



### Foot Valve Screen Dimensions

Nominal Size	3"	4"	6"	8"	8"	10"	10"
Screen Hole Dia. (mm)	3	3	3	3	6	3	6
Screen Area (mm²)	41684	60936	118771	153311	153311	204905	204905
Screen Open Area (mm²)	33%	33%	33%	33%	62%	35%	62%
	13756	20109	39194	50592	95053	71717	127041
Screen Length (mm)	145	195	300	440	440	540	540
Screen Diameter (mm)	90	115	170	210	210	295	295