A.R.I. NR-010





Wafer Style Check Valve

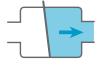
Description

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

Operation



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 | | | |
|---|---|--|--|--|
| Sealing 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

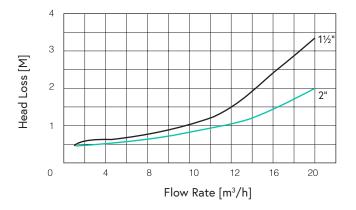
- Manufactured according to any standard flange requirement
- Limit switch add-on
- 1½", 2" model up to four 1/8" side ports for measuring pressure / pressure release cocks / command lines for external controls
- $\,-\,$ NR-010-LS limit switch transmits a contact signal at start or stop of flow
- NR-010-FV foot valve with screen (3"-10")

A.R.I. NR-010

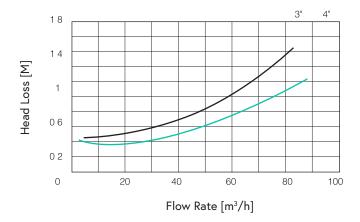




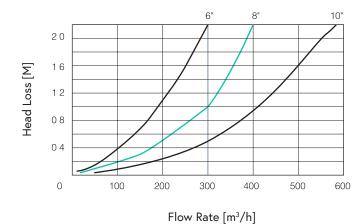
NR-010 1½", 2"



NR-010 3", 4"



NR-010 6", 8", 10"

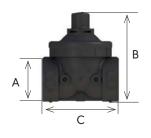


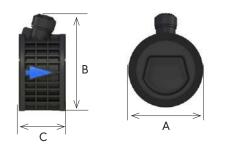
A.R.I. NR-010

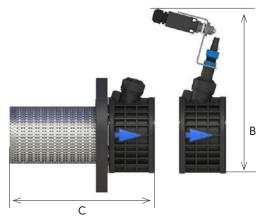


Dimensions and Weight

| Model | Din | nensions (| Weight (kg) | | | |
|------------------|-----|------------|-------------|------|--|--|
| | А | В | С | | | |
| NR-010 1 1/2" | 65 | 149 | 133 | 0.63 | | |
| NR-010 LS 1 1/2" | 65 | 258 | 200 | 0.89 | | |
| NR-010 FV 1 1/2" | 65 | 149 | 225 | 0.95 | | |
| | | | | | | |
| NR-010 2" | 76 | 157 | 133 | 0.65 | | |
| NR-010 LS 2" | 76 | 267 | 200 | 0.92 | | |
| NR-010 FV 2" | 76 | 157 | 267 | 1.0 | | |
| | | | | | | |
| NR-010 3" | 131 | 172 | 80 | 0.66 | | |
| NR-010 LS 3" | 131 | 308 | 122 | 0.77 | | |
| NR-010 FV 3" | 207 | 207 | 226 | 1.3 | | |
| | | | | | | |
| NR-010 4" | 151 | 190 | 90 | 0.9 | | |
| NR-010 LS 4" | 151 | 325 | 125 | 1.17 | | |
| NR-010 FV 4" | 233 | 233 | 286 | 2.17 | | |
| | | | | | | |
| NR-010 6" | 220 | 291 | 107 | 2.6 | | |
| NR-010 LS 6" | 220 | 380 | 175 | 3 | | |
| NR-010 FV 6" | 324 | 324 | 414 | 5.5 | | |
| | | | | | | |
| NR-010 8" | 256 | 323 | 132 | 3.7 | | |
| NR-010 LS 8" | 256 | 415 | 187 | 3.8 | | |
| NR-010 FV 8" | 340 | 365 | 575 | 8 | | |
| | | | | | | |
| NR-010 10" | 308 | 399 | 145 | 5.2 | | |
| NR-010 LS 10" | 308 | 465 | 175 | 5.7 | | |
| 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.

A.R.I. NR-010 _{1½" - 2"}



Parts List and Specifications

| | Part | Material |
|---|-----------------------|---|
| 1 | Model NR-010 LS | Protection |
| 1 | | |
| | 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 NR-010 FV | |
| | Foot Valve Assembly | Reinforced Nylon + Stainless Steel 316 |









Model NR-010 FV

Model NR-010 LS

A.R.I. NR-010 3" - 4"



> Parts List and Specifications

| _ | • | | | | 1433 |
|---|-----------------------|--------------------------|---------------------------|-------------|---------------------|
| | Part | Material | | | |
| 1 | Model NR-010 LS | | | | |
| | Limit Switch Assembly | Reinforced Nylon + Acet | tal + Stainless Steel 316 | | |
| 2 | Spring | SAE 302 | | N N | |
| | Spring Housing | Acetal | | • | |
| 3 | Flap Assembly | | | | 7. - 249 |
| | Flap | Reinforced Nylon + Stair | nless Steel 316 | | |
| | Flap Seal | EPDM | | | |
| 4 | Body Assembly | | | | |
| | Body Seal | EPDM | | - NA. 200 E | 自 |
| | Body | Reinforced Nylon | | | |
| | O-Ring | NBR | | | 更 |
| | Body Seal | EPDM | | 1 | |
| 5 | Model NR-010 FV | | | | Model NR-010 FV |
| | Screen | Stainless Steel 316 | | | |
| | Flange | Reinforced Nylon | | 300 | |
| | (5) | | 4 | 2 | Model NR-010 LS |
| | | | | | 00 |

A.R.I. NR-010 6" - 8"



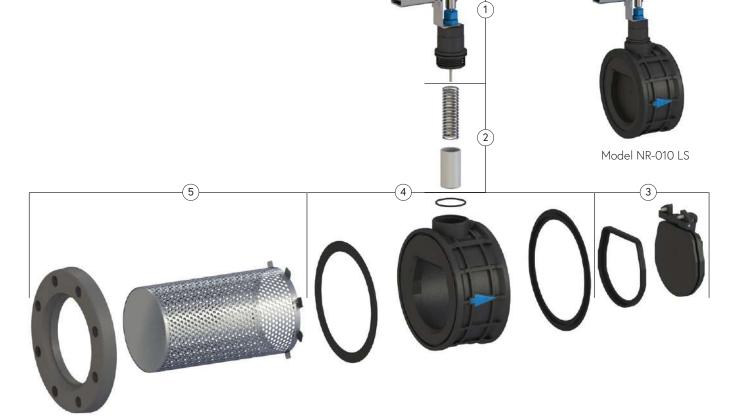
Parts List and Specifications

| | Part | Material | | |
|---|-----------------------|------------------------|---------------------------|--|
| 1 | Model NR-010 LS | | | |
| | Limit Switch Assembly | Reinforced Nylon + Ace | tal + Stainless Steel 316 | |
| 2 | Spring | SAE 302 | | |
| | Spring Housing | Acetal | | |
| 3 | Flap Assembly | | | |
| | Flap | Reinforced Nylon + Sta | inless Steel 316 | |
| | Flap Seal | EPDM | | |
| 4 | Body Assembly | | | |
| | Body Seal | EPDM | | |
| | Body | Reinforced Nylon | | |
| | O-Ring | NBR | | |
| | Body Seal | EPDM | | |
| 5 | Model NR-010 FV | | | |
| | Screen | Stainless Steel 316 | | |
| | Flange | PVC | | |





Model NR-010 FV



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 |