

I N D U S T R I A L   V A L V E S

# NOZZLE CHECK VALVES



**arflu**  
INDUSTRIAL VALVES



Global Supply Line are Australian, Papua New Guinea & New Zealand agents & distributors.  
Contact us [sales@globalsupplyline.com.au](mailto:sales@globalsupplyline.com.au)



**PETROCHEMICAL  
DIVISION**

# **NOZZLE CHECK VALVES**



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REV.1 - AUGUST 2018



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PETROCHEMICAL  
DIVISION



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**W**e are pleased to present you our company which, since its foundation more than 25 years ago, is dedicated to the production of high quality valves. Since 1988 we have been manufacturing all kind of valves mainly for petrochemical, energy, gas, marine services and water and we are proud to manufacture our valves under our brand ARFLU.

ARFLU 's quality guarantee system as well as all its processes and procedures, both technical ones regarding products and in the organization of the company are certified according to the UNE-EN ISO 9001 standard. In addition ARFLU is certified according to H module of 97/23/CE of the EU. Though this certification is extremely important for our company, it must be said that the best certification and guaranty we can offer is the fact that our customers are placing their confidence in ARFLU products day by day. Living in a world of technology and communications as it is today, in ARFLU we try to keep at the forefront of industry. ARFLU owns the latest and most powerful informatic technology systems in order to have our whole organization perfectly communicated and to be in constant contact with customers worldwide. ARFLU is one of the most qualified companies in its field. We develop tailor made solutions as well as we provide customized advice and training for our clients.

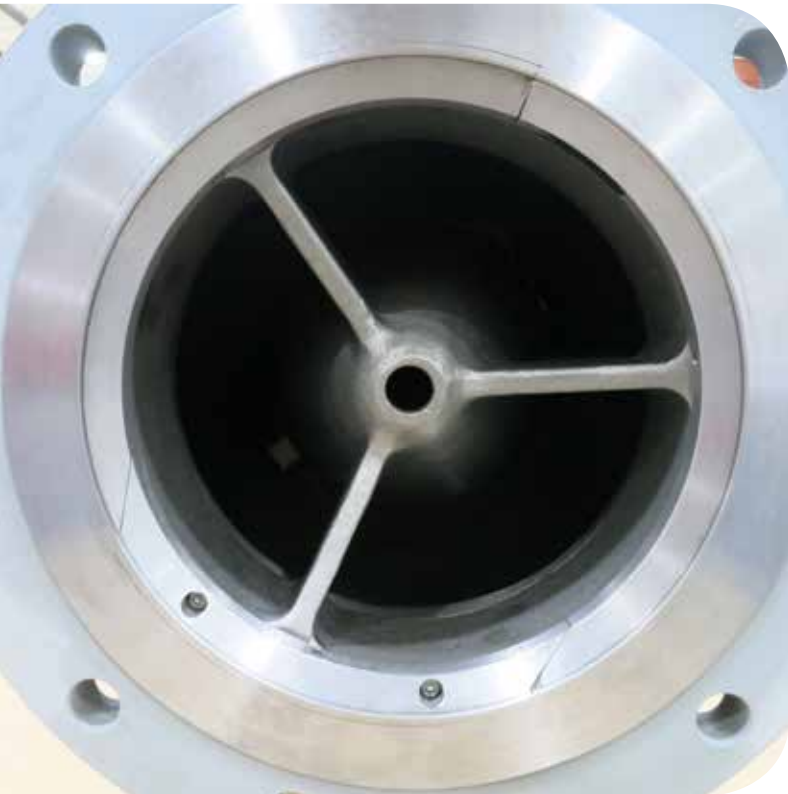


# arflu

INNOVATION, QUALITY, DESIGN



# QUALITY:



The complete Arflu team is trained in quality processes to ensure that customers, no matter where they are located, receive consistent and excellent quality in our products and services.

Our valves are characterized by their high quality, guaranteed through testing one by one, each with an individual number for complete traceability.

Our test benches and laboratory facilities are provided with equipment to realize examinations of all kinds like hydrostatic and pneumatic pressure test, thickness verification, fugitive emission test and all types of non-destructive examinations.

## THE QUALITY POLICY

ARFLU, S.A. Management has implemented and maintains a system of quality management based on the requirements of the UNE-EN-ISO 9001 (2008) : ``Quality management system Requirements`` for manufacturing activities of valves for fluid control.

**The Quality management system's aim is to achieve Arflu's customer satisfaction by complying with all requirements, specified by both the client and legal or regulatory requirements as well as the necessary ones**

This point is the cornerstone of our company philosophy and a key to our global competitiveness.

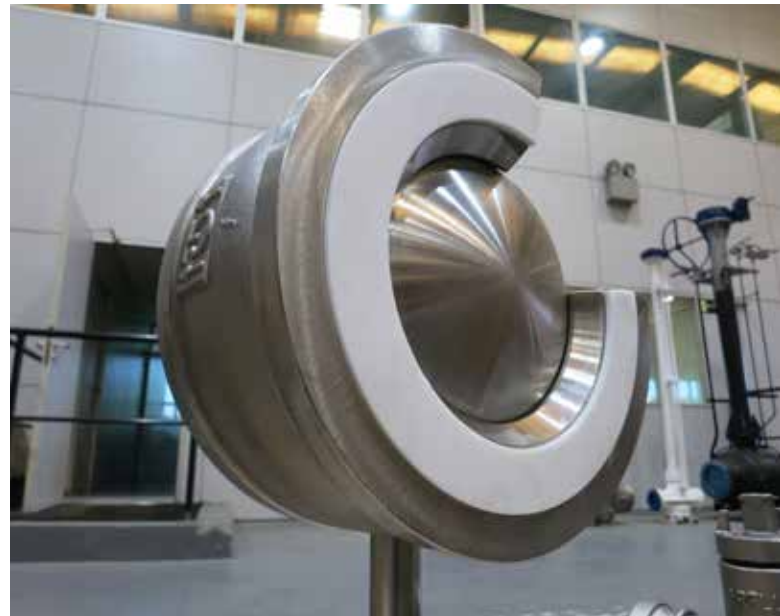
**to assure the effectiveness of the manufacture.**

**Therefore ARFLU, S.A. management promises to fulfil the following general targets:**

- Managing quality of services provided, according to International Standard ISO 9001 (2008).
- Compliance with the requirements agreed with our customers (product specifications, delivery, agreed price, etc.), strengthening their confidence in our organization.
- Compliance with other requirements: legal requirements and implicit requirements to ensure adequacy of services provided to customer needs
- Continuous improvement of the efficiency of quality management.

The Quality Policy is spread to the whole personnel through training seminars and by distribution of controlled copies of the present document. In addition, another controlled copy is placed in the bulletin board of ARFLU, S.A. By this means, ARFLU, S.A ensures that the Quality Policy is understood by the whole personnel of the company.

The review of the Quality Policy, as well as the establishment and review of specific and quantified quality targets, is carried out by the management during system review.





# NOZZLE CHECK VALVES

## GENERAL CONSIDERATIONS:

Arflu Nozzle check valves have been designed to provide reliable backflow prevention for the Petrochemical, Gas & Water divisions.

Arflu's Engineering department has create Nozzle check valve with **dynamic quick closing** which reduces the flow return speed. The Axial movement of the disc produces a streamlineflow with venturi effect which reduces the pressure drop with minimal seat leakage and with minimum turbulences.

Our design needs only a very low flow to completely open the valve and guarantees the highest fluid dynamic performances reacting fast to flow alteration.

Arflu Nozzle check valves are available with multiple spring torques increasing considerably its purposes. it has also been conceived to have a really low maintenance costs and high serviceability



## APPLICATIONS

- Compressor discharge
- Natural Gas refineries
- Desalination plants
- Pump discharge
- Critical equipment discharge
- Compressor/pump bypass
- Storage facilities
- Water Treatment
- Offshore
- Water Transmission



# FEATURES OF ARFLU NOZZLE CHECK VALVES:



## **DYNAMIC QUICK CLOSING**

Arflu Nozzle Check valves are design to reduce the fluid flow speed during the closure

## **MAINTENANCE AND SERVICEABILITY**

Arflu valves are designed and developed to have the lowest possible maintenance. If any repair is required, these can easily be accessed without any special tools.



## FLUID HAMMER REDUCTION

Thanks to its special design of the disc there is an important fluid hammer reduction which also depends on the spring torque.

## DISC SHORT STROKE

All of our Nozzle check valves are developed to have a short stroke of the discs which also means a reduction of the body dimensions which also signifies less material needed.

## DISC AXIAL MOVEMENT

The inner shape produces a streamlined flow with Venturi effect which reduces considerably the pressure drop.

## MANUFACTURING CAPACITY

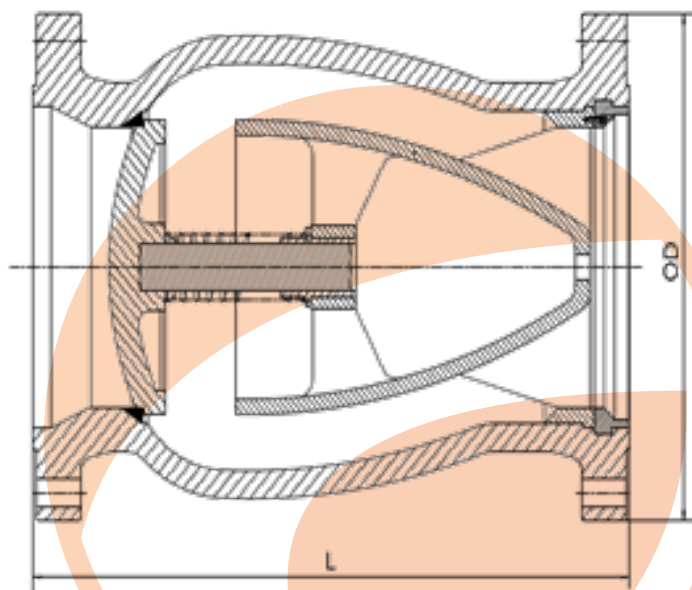
Specialized in projects, Arflu has a great manufacturing capacity being able to produce a wide volume of all kind of valves.

## Nozzle Check Valve

COD.

ARN-  
1000

NOZZLE CHECK CLASS 150 2" TO 36"



**CLASS 150 DIMENSIONS IN MILLIMETERS**

| ND.               | 2"  | 2 1/2" | 3"  | 4"  | 6"  | 8"  | 10" | 12" | 14" | 16" | 18" | 20" | 22"  | 24"  |
|-------------------|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| API 6D L (RF)     | 203 | 216    | 241 | 292 | 356 | 495 | 622 | 699 | 787 | 864 | 978 | 978 | 1067 | 1295 |
| API 6D L (RTJ)    | -   | 229    | 254 | 305 | 368 | 508 | 635 | 711 | 800 | 876 | 991 | 991 | 1080 | 1308 |
| API 6D WEIGHT     | 14  | 18     | 24  | 37  | 65  | 115 | 184 | 275 | 367 | 515 | 580 | 810 | 900  | 1152 |
| STD ARFLU L (RF)  | -   | -      | -   | -   | 253 | 295 | 365 | 435 | 475 | 545 | 610 | 675 | -    | 810  |
| STD ARFLU L (RTJ) | -   | -      | -   | -   | 266 | 308 | 378 | 448 | 488 | 558 | 623 | 688 | -    | 823  |
| STD ARFLU WEIGHT  | -   | -      | -   | -   | 52  | 90  | 145 | 230 | 300 | 420 | 460 | 620 | -    | 1000 |

**CLASS 150 DIMENSIONS IN MILLIMETERS**

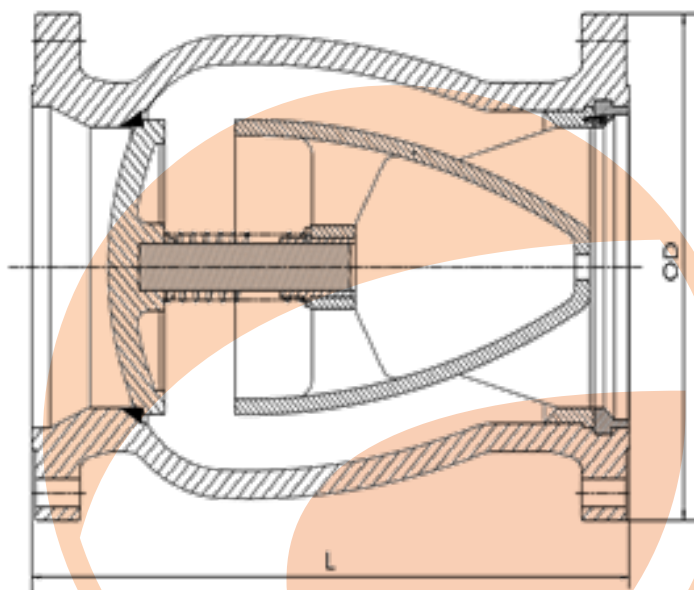
| ND.               | 26"  | 28"  | 30"  | 36"  |
|-------------------|------|------|------|------|
| API 6D L (RF)     | 1295 | 1448 | 1524 | 1956 |
| API 6D L (RTJ)    | -    | -    | -    | -    |
| API 6D WEIGHT     | 1480 | 1896 | 2340 | 3550 |
| STD ARFLU L (RF)  | -    | 945  | 1010 | 1215 |
| STD ARFLU L (RTJ) | -    | -    | -    | -    |
| STD ARFLU WEIGHT  | -    | 1360 | 1690 | 2770 |

# Nozzle Check Valve

COD.

ARN-3000

NOZZLE CHECK CLASS 300 2" TO 36"



CLASS 300 DIMENSIONS IN MILIMETERS

| ND.               | 2"  | 2 1/2" | 3"  | 4"  | 6"  | 8"  | 10" | 12" | 14" | 16" | 18" | 20"  | 22"  | 24"  |
|-------------------|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| API 6D L (RF)     | 267 | 292    | 318 | 356 | 445 | 533 | 622 | 711 | 838 | 864 | 978 | 1016 | 1118 | 1346 |
| API 6D L (RTJ)    | 283 | 308    | 333 | 371 | 460 | 549 | 638 | 727 | 854 | 879 | 994 | 1035 | 1140 | 1368 |
| API 6D WEIGHT     | 18  | 26     | 34  | 57  | 105 | 175 | 270 | 365 | 490 | 662 | 910 | 1180 | 1410 | 1785 |
| STD ARFLU L (RF)  | -   | -      | -   | -   | 253 | 295 | 365 | 435 | 475 | 545 | 610 | 675  | -    | 810  |
| STD ARFLU L (RTJ) | -   | -      | -   | -   | 269 | 311 | 381 | 451 | 491 | 561 | 626 | 694  | -    | 832  |
| STD ARFLU WEIGHT  | -   | -      | -   | -   | 76  | 125 | 192 | 294 | 390 | 536 | 620 | 810  | -    | 1330 |

CLASS 300 DIMENSIONS IN MILIMETERS

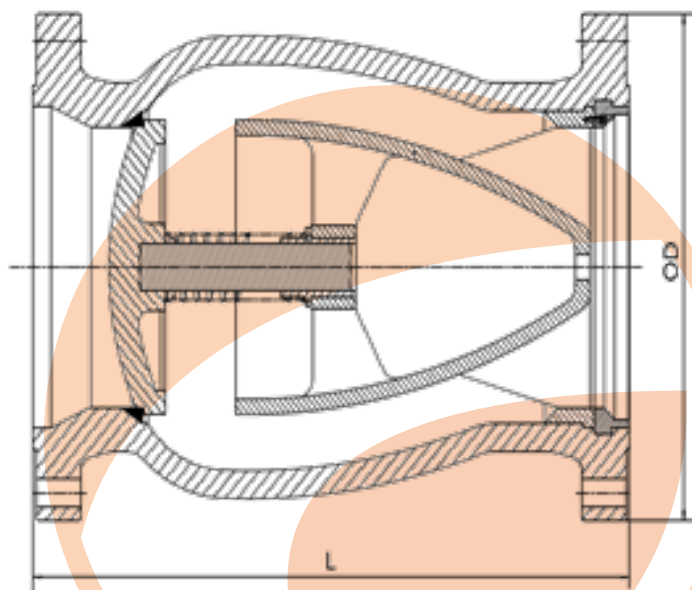
| ND.               | 26"  | 28"  | 30"  | 36"  |
|-------------------|------|------|------|------|
| API 6D L (RF)     | 1346 | 1449 | 1524 | 2083 |
| API 6D L (RTJ)    | 1372 | 1524 | 1619 | -    |
| API 6D WEIGHT     | 2140 | 2350 | 2810 | 4376 |
| STD ARFLU L (RF)  | -    | 945  | 1010 | 1215 |
| STD ARFLU L (RTJ) | -    | 970  | 1035 | 1244 |
| STD ARFLU WEIGHT  | -    | 1705 | 2085 | 3260 |

## Nozzle Check Valve

COD.

ARN-  
6000

NOZZLE CHECK CLASS 600 2" TO 36"



**CLASS 600 DIMENSIONS IN MILLIMETERS**

| ND.               | 2"  | 2 1/2" | 3"  | 4"  | 6"  | 8"  | 10" | 12" | 14" | 16"  | 18"  | 20"  | 22"  | 24"  |
|-------------------|-----|--------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| API 6D L (RF)     | 292 | 330    | 356 | 432 | 559 | 660 | 787 | 838 | 889 | 991  | 1092 | 1194 | 1295 | 1397 |
| API 6D L (RTJ)    | 295 | 333    | 359 | 435 | 562 | 664 | 791 | 841 | 892 | 994  | 1095 | 1200 | 1305 | 1407 |
| API 6D WEIGHT     | 24  | 48     | 44  | 76  | 167 | 280 | 445 | 580 | 715 | 1060 | 1442 | 1840 | 2140 | 2513 |
| STD ARFLU L (RF)  | -   | -      | -   | -   | 253 | 295 | 365 | 435 | 475 | 545  | 610  | 675  | -    | 810  |
| STD ARFLU L (RTJ) | -   | -      | -   | -   | 256 | 298 | 368 | 438 | 478 | 548  | 613  | 681  | -    | 819  |
| STD ARFLU WEIGHT  | -   | -      | -   | -   | 105 | 166 | 277 | 359 | 450 | 646  | 808  | 1046 | -    | 1670 |

**CLASS 600 DIMENSIONS IN MILLIMETERS**

| ND.               | 26"  | 28"  | 30"  | 36"  |
|-------------------|------|------|------|------|
| API 6D L (RF)     | 1448 | 1600 | 1651 | 2083 |
| API 6D L (RTJ)    | 1461 | 1613 | 1664 | -    |
| API 6D WEIGHT     | 3100 | 3830 | 4564 | 6360 |
| STD ARFLU L (RF)  | -    | 945  | 1010 | 1215 |
| STD ARFLU L (RTJ) | -    | 958  | 1023 | 1231 |
| STD ARFLU WEIGHT  | -    | 2295 | 2736 | 4310 |

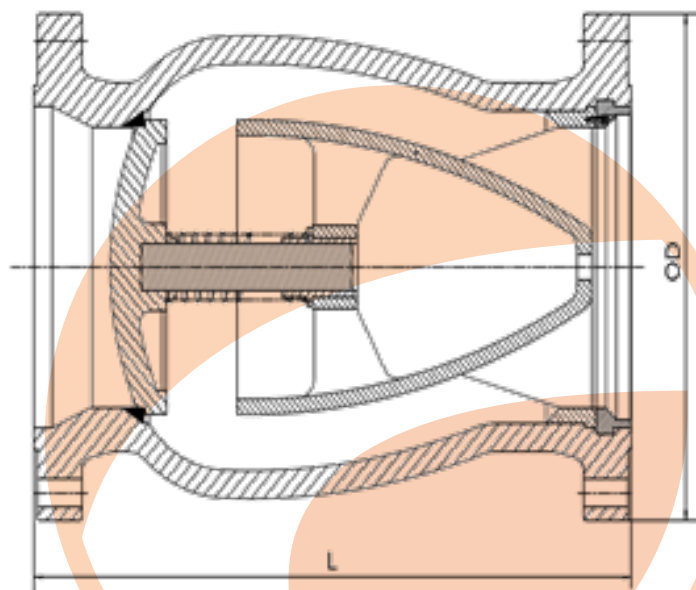


# Nozzle Check Valve

COD.

ARN-9000

NOZZLE CHECK CLASS 900 2" TO 24"



15

CLASS 900 DIMENSIONS IN MILLIMETERS

| ND.               | 2"  | 2 1/2" | 3"  | 4"  | 6"  | 8"  | 10" | 12" | 14"  | 16"  | 18"  | 20"  | 24"  |
|-------------------|-----|--------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| API 6D L (RF)     | 368 | 419    | 381 | 457 | 610 | 737 | 838 | 965 | 1029 | 1130 | 1219 | 1321 | 1549 |
| API 6D L (RTJ)    | 371 | 422    | 384 | 460 | 613 | 740 | 841 | 968 | 1038 | 1140 | 1232 | 1334 | 1568 |
| API 6D WEIGHT     | 39  | 50     | 63  | 92  | 197 | 390 | 560 | 870 | 1104 | 1407 | 1960 | 2422 | 3661 |
| STD ARFLU L (RF)  | -   | -      | -   | 235 | 300 | 335 | 385 | 435 | 475  | 545  | 610  | 675  | 810  |
| STD ARFLU L (RTJ) | -   | -      | -   | 238 | 306 | 344 | 394 | 451 | 494  | 567  | 632  | 697  | 838  |
| STD ARFLU WEIGHT  | -   | -      | -   | 72  | 146 | 260 | 404 | 491 | 665  | 882  | 1126 | 1495 | 2680 |

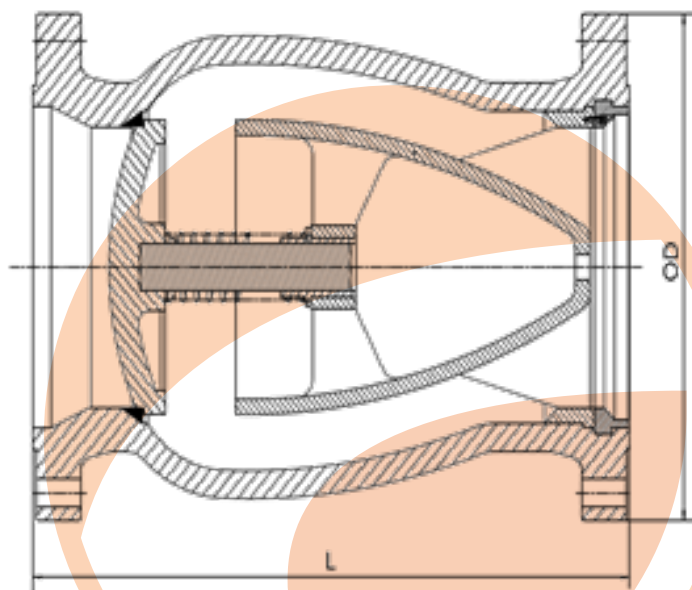


## Nozzle Check Valve

COD.

ARN-  
4000

NOZZLE CHECK CLASS 1500 2" TO 24"



**CLASS 1500 DIMENSIONS IN MILLIMETERS**

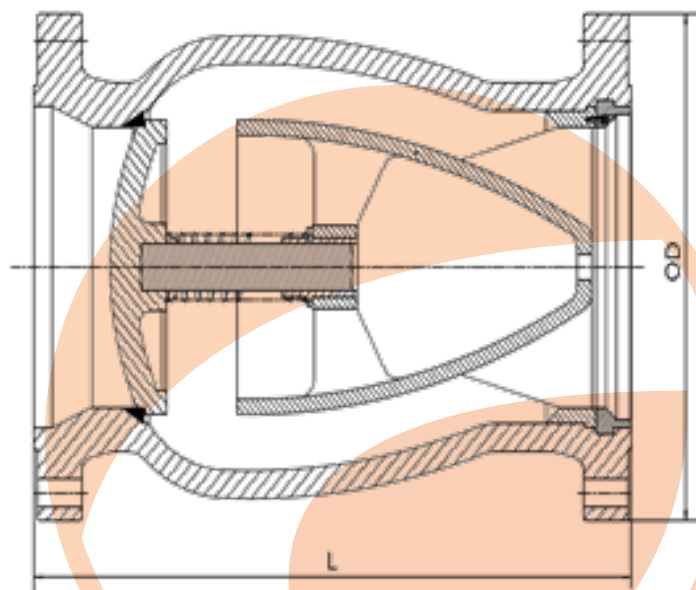
| ND.               | 2"  | 2 1/2" | 3"  | 4"  | 6"  | 8"  | 10"  | 12"  | 14"  | 16"  | 18"  | 20"  | 24"  |
|-------------------|-----|--------|-----|-----|-----|-----|------|------|------|------|------|------|------|
| API 6D L (RF)     | 368 | 419    | 470 | 546 | 705 | 832 | 991  | 1130 | 1257 | 1384 | 1537 | 1664 | 1943 |
| API 6D L (RTJ)    | 371 | 422    | 473 | 549 | 711 | 841 | 1000 | 1146 | 1276 | 1407 | 1559 | 1686 | 1972 |
| API 6D WEIGHT     | 39  | 50     | 67  | 121 | 246 | 421 | 730  | 1250 | 2114 | 3010 | 3922 | 5124 | 6962 |
| STD ARFLU L (RF)  | -   | -      | -   | 235 | 300 | 335 | 385  | 435  | 475  | 545  | 610  | 675  | 810  |
| STD ARFLU L (RTJ) | -   | -      | -   | 238 | 306 | 344 | 394  | 451  | 494  | 567  | 632  | 697  | 838  |
| STD ARFLU WEIGHT  | -   | -      | -   | 93  | 196 | 335 | 565  | 866  | 1168 | 1562 | 2030 | 2634 | 4300 |

# Nozzle Check Valve

COD.

ARN-7000

NOZZLE CHECK CLASS 2500 2" TO 12"



CLASS 2500 DIMENSIONS IN MILLIMETERS

| ND.               | 2"  | 2 1/2" | 3"  | 4"  | 6"  | 8"   | 10"  | 12"  |
|-------------------|-----|--------|-----|-----|-----|------|------|------|
| API 6D L (RF)     | 451 | 508    | 578 | 673 | 914 | 1022 | 1270 | 1422 |
| API 6D L (RTJ)    | 454 | 514    | 584 | 683 | 927 | 1038 | 1292 | 1445 |
| API 6D WEIGHT     | 54  | 81     | 120 | 196 | 487 | 743  | 1173 | 1750 |
| STD ARFLU L (RF)  | -   | -      | -   | 295 | 390 | 430  | 540  | 595  |
| STD ARFLU L (RTJ) | -   | -      | -   | 304 | 403 | 446  | 562  | 617  |
| STD ARFLU WEIGHT  | -   | -      | -   | 160 | 395 | 595  | 1120 | 1580 |



**arflu**  
INDUSTRIAL VALVES

*Absolute Regulation of Fluids*



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INDUSTRIAL VALVES

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*Absolute Regulation of Fluids*



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