

I N D U S T R I A L V A L V E S

NOZZLE CHECK VALVES

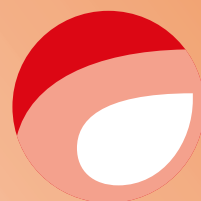


arflu
INDUSTRIAL VALVES



**PETROCHEMICAL
DIVISION**

NOZZLE CHECK VALVES



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INDUSTRIAL VALVES

PETROCHEMICAL
DIVISION



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We 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.



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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.

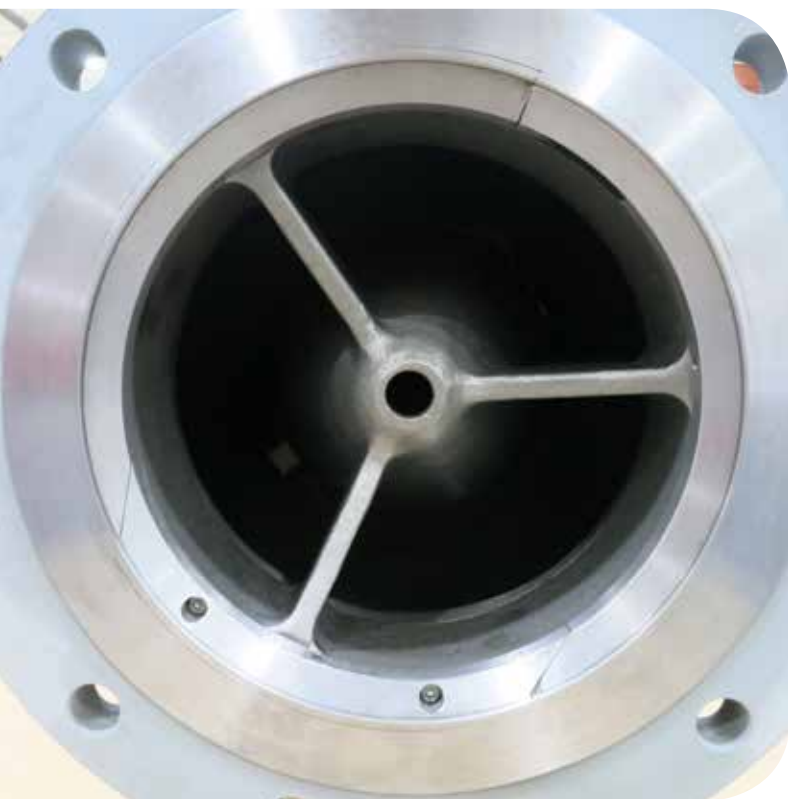
Our valves are characterized by their high quality, guaranteed through testing one by one, each with an individual number for complete traceability.

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.

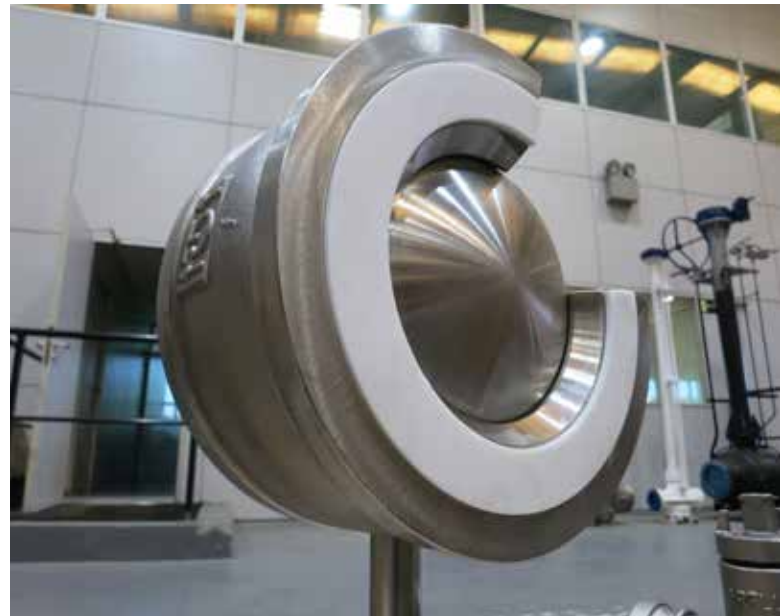
to assure the effectiveness of the manufacture.

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 designed to reduce the water 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.



WATER HAMMER REDUCTION

Thanks to its special design of the disc there is an important water 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

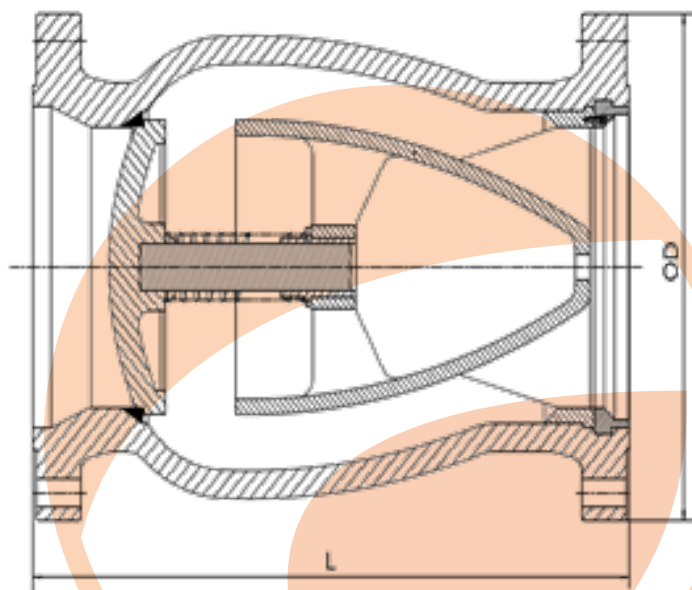
Specialized in projects, Arflu has a great manufacturing capacity being able to produce a wide volume of all kind of valves.

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

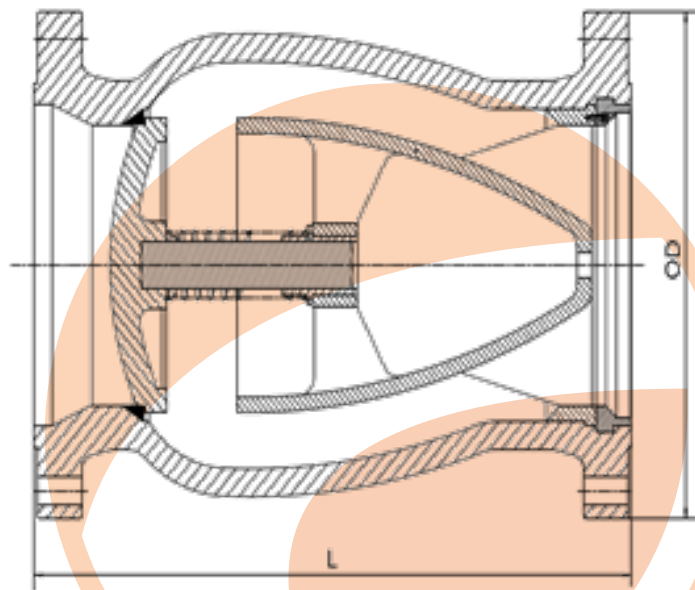
ND.	26"	28"	30"	36"
API 6D L (RF)	1295	1448	1524	1956
API 6D L (RTJ)	-	-	-	-
API 6D WEIGHT	1480	1896	2340	3550
STD ARFLU L (RF)	-	945	1010	1215
STD ARFLU L (RTJ)	-	-	-	-
STD ARFLU WEIGHT	-	1360	1690	2770

Nozzle Check Valve

COD.

ARN-3000

NOZZLE CHECK CLASS 300 2" TO 36"



CLASS 300 DIMENSIONS IN MILLIMETERS

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 MILLIMETERS

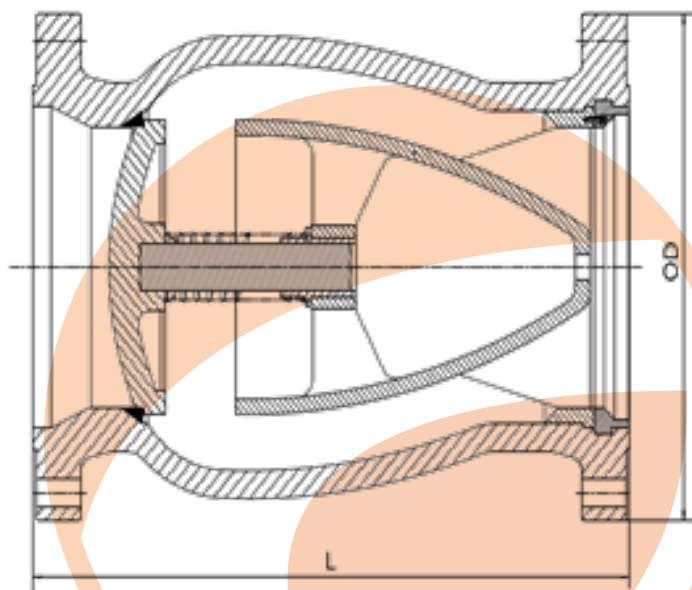
ND.	26"	28"	30"	36"
API 6D L (RF)	1346	1449	1524	2083
API 6D L (RTJ)	1372	1524	1619	-
API 6D WEIGHT	2140	2350	2810	4376
STD ARFLU L (RF)	-	945	1010	1215
STD ARFLU L (RTJ)	-	970	1035	1244
STD ARFLU WEIGHT	-	1705	2085	3260

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

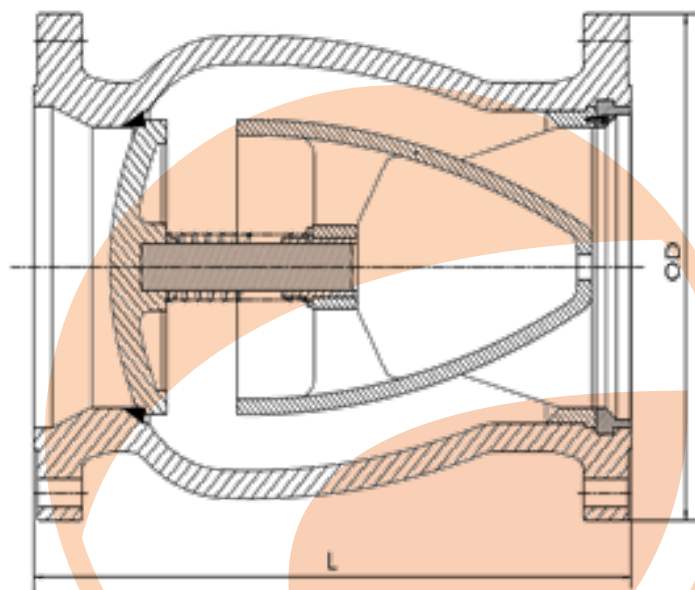
ND.	26"	28"	30"	36"
API 6D L (RF)	1448	1600	1651	2083
API 6D L (RTJ)	1461	1613	1664	-
API 6D WEIGHT	3100	3830	4564	6360
STD ARFLU L (RF)	-	945	1010	1215
STD ARFLU L (RTJ)	-	958	1023	1231
STD ARFLU WEIGHT	-	2295	2736	4310

Nozzle Check Valve

COD.

ARN-9000

NOZZLE CHECK CLASS 900 2" TO 36"



CLASS 900 DIMENSIONS IN MILLIMETERS

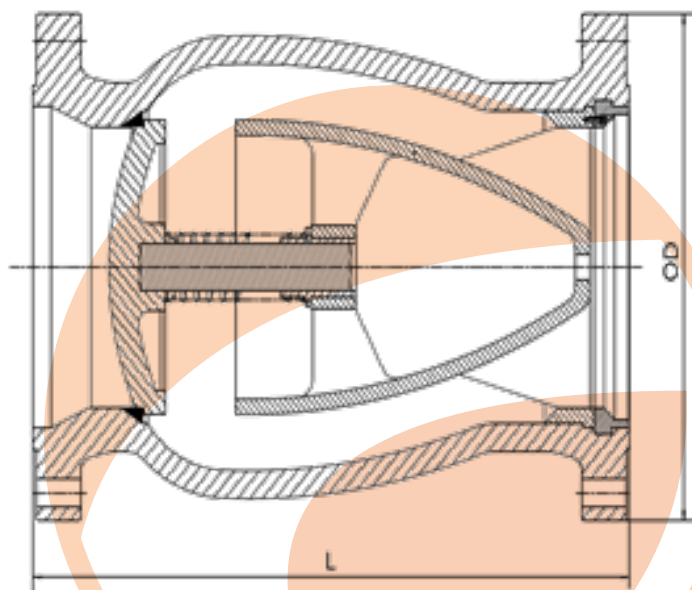
ND.	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
API 6D L (RF)	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549
API 6D L (RTJ)	371	422	384	460	613	740	841	968	1038	1140	1232	1334	1568
API 6D WEIGHT	39	50	63	92	197	390	560	870	1104	1407	1960	2422	3661
STD ARFLU L (RF)	-	-	-	235	300	335	385	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 36"



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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

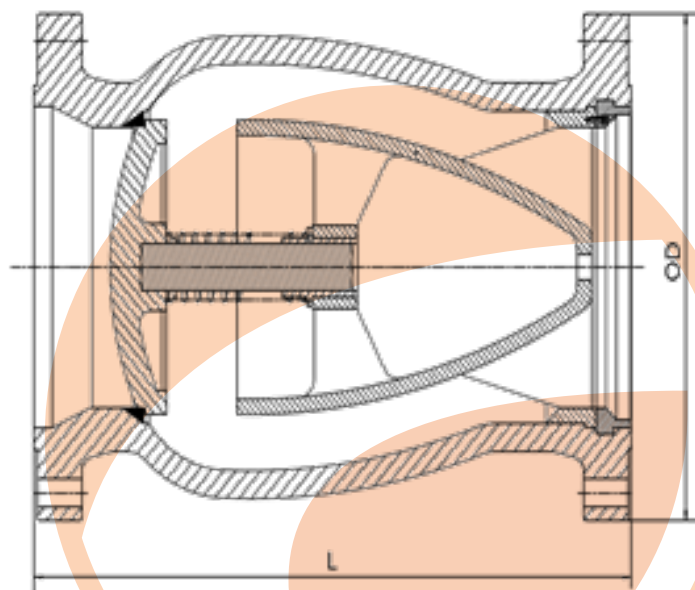
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Nozzle Check Valve

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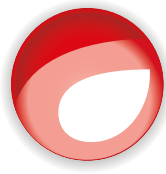
ARN-7000

NOZZLE CHECK CLASS 2500 2" TO 36"



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



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Absolute Regulation of Fluids



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