



॥ अविरत जल प्रदाय ॥

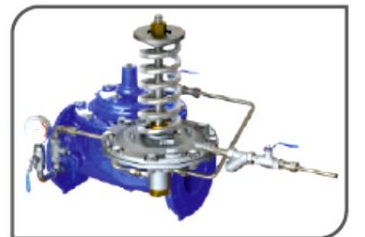
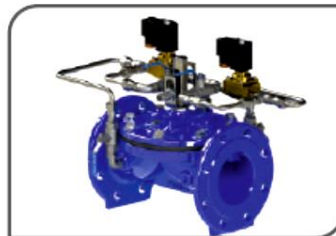


SMVFAV FORHZOC  
NO-HAMOTUA  
AUTOMATION

Pressure, Flow, Level &  
Leakage

Management

Save Water – Be Water Savy





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## **Alpine Flowtech Global Company Profile**

### **Hydraulically Operated Control Valves**

**Alpine Flowtech, an Indian Company is the sole selling agent and sales representatives of M/s. Alpine Flow Control Co., Ltd. (AFC), A Global Company manufacturing world class Control Valves and having Factories in Malaysia, PRC as well as Offices Cum Assembly lines in Indonesia, Vietnam, Taiwan.**

**Alpine Flowtech is the 1<sup>st</sup> Company from India to have a CWPRS, Pune Certification for the Flow Control Valve (FCV) and PLC integration.**

Alpine Flow Control was originated in the year 2009 when the shareholder company Jupiter Technologies Co. Ltd., Anguilla (a British overseas territory in the Caribbean) sponsored formation with a registered as well as paid up capital of 1.5 Million USD through its legal representative Mr. Liang Nai Lieh. The formed company was wholly owned by foreign corporation. The major focus of the company is in the **Water Valves Design and Manufacturing**. Proven and supported by on-going quality and reliability test, AFC has built its own in-house reliability test laboratory to ensure that our products not only meet the international quality and reliability test specification, but also comply to various international valves standards and specifications. Our production is mainly for export business (95%), and we follow the international standard EN & AWWA. Our overseas market has expanded to America, Italy, Spain, India, UK, Malaysia, Vietnam, Mexico, Russia, Brazil, Philippine, Indonesia, Korea, UAE etc. We have the prestigious EN 1074-5: 2000, Certificate of Conformity, Type Test for the Hydraulically Operated Control Valves issued by TUV.

The Management staff have over 30 years' experience in the water valve design and manufacturing, combined with the high-tech electronics manufacturing experience of multi-national listed companies. This unique combination of traditional and high-tech industry management experience and skills have given us an advantage over the traditional valve manufacturer. More than 40% of our staff are technical staff with knowledge and experience in valve and mechanical design/manufacturing.

#### **Our Mission:**

- Be the market leader in Valve & Flow Control Applications
- Technology through Innovation. Continuous upgradation and R&D
- Quality product and service through Quality people
- Business growth through Cohesive partnership
- Best in class Design and Service support through network reps. across globe.



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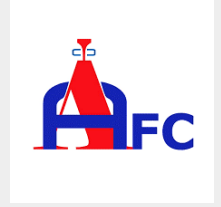
## PICTURE GALLERY OF WORKS





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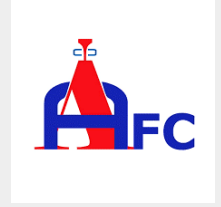
## Alpine Flow Control Co., Ltd. (AFC)

### Corporate & Technical Profile

Particulars	Description
<b>Brand Name if any</b>	<b>ALPINE, AFC</b>
Factory & Office Global Presence	<input type="checkbox"/> MALAYSIA - FACTORY & OFFICE <input type="checkbox"/> CHINA - FACTORY & OFFICE <input type="checkbox"/> INDIA – ASSEMBLY, INSPECTION, WAREHOUSE & OFFICE <input type="checkbox"/> TAIWAN – ASSEMBLY, WAREHOUSE & OFFICE <input type="checkbox"/> INDONESIA – ASSEMBLY, WAREHOUSE & OFFICE <input type="checkbox"/> VIETNAM – ASSEMBLY, WAREHOUSE & OFFICE
Countries Served	US-America, Italy, Spain, UK, Mexico, Russia, Brazil, Philippine, Korea, UAE.
Year of Establishment	2009
Year of commencement of production.	2009

### Manufacturing, Design, R&D, Govt. Certifications.

Type Test Certification	Type test of Control Valves as per EN 1074-5-2000 by TUV.
Quality Management Certifications	GB/T19001-2016 / ISO:9001-2015 ISO 14001:2004
Test certificate from certified Govt. Organization.	<b>CWPRS Pune, India Three Certificates for Flow Control Valves</b>
R & D Facilities if any	In-House Electronics Lab R&D for Control Valves Hydro dynamic testing equipments. Collaboration for Smart Valves Software with HEDA
Type of Valves	Hydraulically Operated Diaphragm Type Pilot/Solenoid/SCADA Operated Control Valves. Sewage Air & vacuum Breaker Valves.
Class, Diameter	Hydraulically operated, Diaphragm type Control Valves DN 50-900 Rating- PN 10/16/25 Sewage Air & vacuum Valves – 50 mm to 200 mm

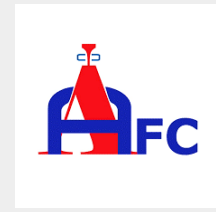


## Quality Control, Inspection & Testing.

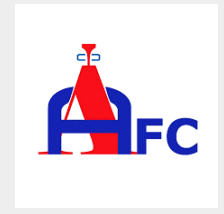
Availability of Equipment	<p>2 sets of all gauge and each set goes for calibration every half year.</p> <p>Pressure Gauge – Calibrate per half year</p> <p>Calliper – Calibrate per year</p> <p>Torque wrench – Calibrate per year</p> <p>Coating thickness gauge – Calibrate per year</p> <p>Non-porosity test equipment– Calibrate per year</p> <p>Thermometer - – Calibrate per year</p> <p>All the calibration is done in CNAS certificate lab.</p>
QC record/document maintenance	<p>Calibrated equipment certificate.</p> <p>IQC</p> <p>IPQC</p> <p>FQC</p> <p>OQC</p>
Details of testing facility available	<p>Hydro test machines which can meet BS/AWWA pressure test. Impact test equipment for coating. Coating thickness gauge. Non-porosity test machine.</p>
Approved by reputed Organization	<p>TUV – EN1074-5 certificate</p>
List of tests carried out for RAW Material & Product	<p>We follow BS and AWWA standards.</p> <p>Hydraulic Control Valve: EN1074-5</p> <p>Seat test (Low pressure): 0.5 bar</p> <p>Seat test (High pressure): 1.1*pressure rating</p> <p>Shell test (High pressure): 1.5*pressure rating</p>
Detail in house testing facility	<p>Hydro test machine PD004 – test valves from DN50-DN200</p> <p>Hydro test machine PD005 – test valves from DN250-DN600</p> <p>Hydro test machine PD022 – test valves from DN600-DN1200</p> <p>Hydro test machine PD024 – test valves from DN100-DN300</p> <p>BS –up to PN25. AWWA – up to 200 PSI</p>

## Assembly, Service, Sales & Marketing in India.

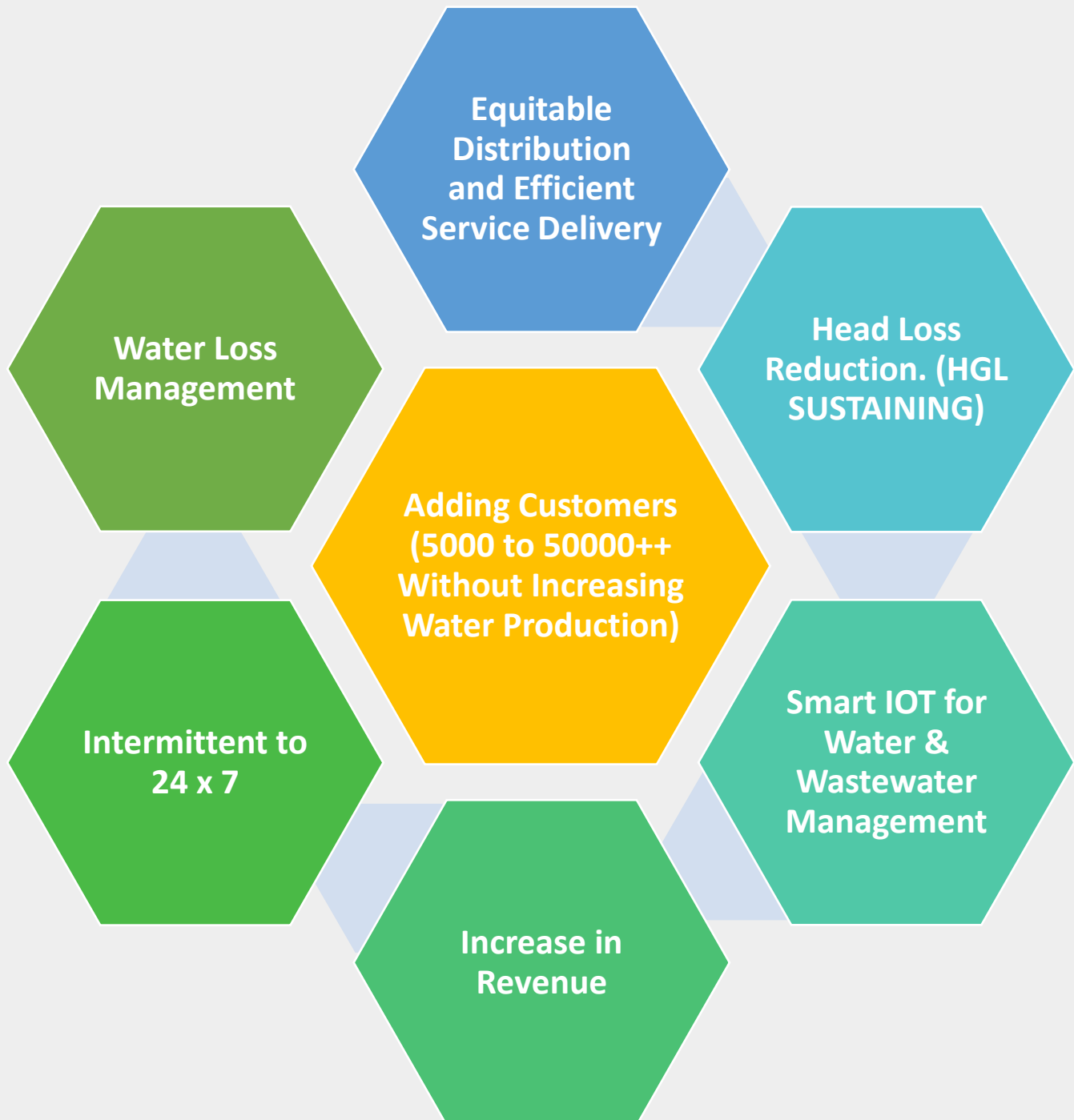
<ol style="list-style-type: none"> <li>1) Alpine Flowtech, Thane, Maharashtra.</li> <li>2) Verve Incorporation, Hyderabad, Telangana.</li> </ol>
<ol style="list-style-type: none"> <li>1) Unit No. 1, B-Wing, Swaraj Complex, Opp. Bewakoof Textile Factory Outlet, Rajlaxmi Compound, Kasheli, Kalher, Bhiwandi, Dist. Thane, Maharashtra. 421302</li> <li>2) Villa No. 27, Splendid Aparna, Palm Meadows, Pochampally, Kompalle, Rangareddy, Telangana. 500014</li> </ol>



<b>PROBLEMS FACED BY UTILITIES</b>	<b>SMART SOLUTIONS BY ALPINE/AFC CONTROL VALVES</b>
<b>Unequal Water Distribution</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Pressure &amp; Flow Management Solutions.</li> <li><input type="checkbox"/> Reservoir Management.</li> <li><input type="checkbox"/> Branch/Taping/Feeder Control.</li> <li><input type="checkbox"/> Customer Service Connections Management.</li> <li><input type="checkbox"/> Pressure and Level Management.</li> </ul>
<b>(NRW). Physical Loss of Water Engineer's Perspective (Non-Socio/political)</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Dynamic and Static Network Management.</li> <li><input type="checkbox"/> Time based pressure Management.</li> <li><input type="checkbox"/> Overflow Prevention</li> <li><input type="checkbox"/> Rate of flow control</li> <li><input type="checkbox"/> Air Management</li> <li><input type="checkbox"/> Capacity Building &amp; Training</li> <li><input type="checkbox"/> Adding the No. of Service Connections by reducing the NRW.</li> </ul>
<b>Damages to the Critical Equipments, Infrastructure.</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Surge Protection,</li> <li><input type="checkbox"/> Anticipation,</li> <li><input type="checkbox"/> Pump Control, Pressure Reduction,</li> <li><input type="checkbox"/> Anti-Cavitation.</li> </ul>



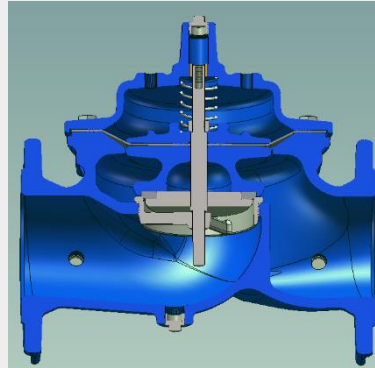
## ADVANTAGES OF USING ALPINE/AFC CONTROL VALVES







## Alpine/AFC Control Valves Design Advantage



- ❖ Double guided Shaft/Stem for balanced stroke & control - in AISI SS 304/optional in SS 316
- ❖ Body seat and retainer in AISI SS 304/optional in SS 316
- ❖ High Performance Long Service Life Diaphragm in reinforced nylon fabric EPDM/NBR-food grade & WRAS approved.
- ❖ Body, Bonnet, Disc Holder, Diaphragm, Upper plate in DI Grade GJS/SGI 500/7/GGG 50
- ❖ Resilient seat and O rings in EPDM/NBR
- ❖ Spring - AISI SS 304/optional in SS 316
- ❖ High performance 24vDC/230-240 vAC solenoids in SS/Brass/Bronze.
- ❖ Hex Bolt, Washer, Nut in A2 AISI SS:304, corrosion resistant.
- ❖ Tubings, Plugs and connecting fittings in rigid AISI SS 304
- ❖ Extra tapping plugs for SCADA modifications and adding other features/pressure gauge.
- ❖ Strainer, Needle Valves for speed control, Ball Valves for isolation in AISI SS 304.
- ❖ Fusion bonded epoxy coating with a minimum 250-micron coating food grade WRAS approved.
- ❖ PN 10, 16, 25 pressure rating and flange drilling options.
- ❖ Optional Accessories: Air Vent Valve, Emergency Valve opening barrel with ball valve, Limit switch, Pump Control Panel with necessary sequence and relays and timers.

# PRODUCTS GALLERY



Pressure Reducing Valve



Relief + Sustaining



Flow Limiting



Dual Solenoid for SCADA



Altitude Valve – Tank Level



Surge Anticipating Valve



Ball Float Valve



Pressure Management Valve (PLC)



PRV With Actuator



Solenoid On-Off Valve



Burst Control Valve



Pump Control Valve (Panel)



Flow Limiting With Solenoid



5 In One Valve



Flow Limiting + Altitude

# PRODUCTS GALLERY



PRV + Altitude



PRV + Flow Limiting



PRV + Flow Limiting + Solenoid



Multi Time Setting PRV



Surge Relief + Solenoid



Stemless Direct Seat PRV



Stemless Direct Seat Relief Valve



Stemless Direct Seat Flow Limiting Valve



Stemless Direct Seat Altitude Valve



Stemless Direct Seat Solenoid On-Off Valve

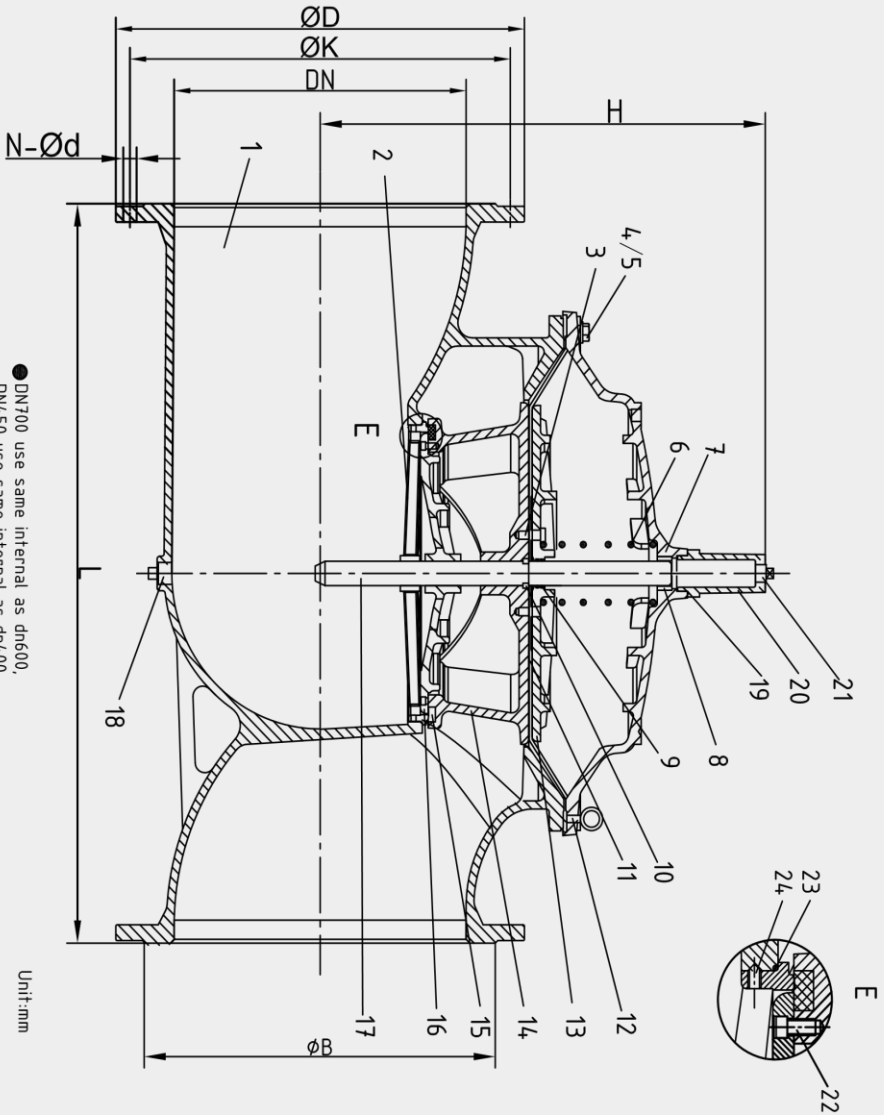


Valve On-Off Programmer



Latching Solenoid For Main Valve On-Off by 9 vDC Battery

## GAD 400 mm – 800 mm



● DN700 use same internal as dn600.  
DN450 use same internal as dn400

Unit:mm

DN	L	ØD			ØK			H	N-Ød			ØB		
		PN10	PN16	PN25	PN10	PN16	PN25		PN10	PN16	PN25	PN10	PN16	PN25
400	1100	580	620	515	525	550	710	16-Ø28	16-Ø31	16-Ø37	480	503		
● 450	1200	640	670	565	585	600	720	20-Ø28	20-Ø31	20-Ø37	530	548		
500	1250	715	730	620	650	660	822	20-Ø28	20-Ø34	20-Ø37	582	609		
600	1450	840	845	725	770	770	885	20-Ø31	20-Ø37	20-Ø40	682	720		
● 700	1650	910	960	840	840	875	910	24-Ø31	24-Ø37	24-Ø43	794	820		
800	1850	1025	1085	950	950	990	1260	24-Ø34	24-Ø40	24-Ø49	901	928		

- Note:
1. Main valve Test:
    - 1.1 Sealing test  
Low pressure: 0.2bar;  
High pressure: 1.1xPN bar;
    - 1.2 Shell test  
1.5xPN bar
  2. Flange dimension according to order;
  3. If need optional material or others, consult factory.

NO.	Part Name	Material	Standard
1	Body	Ductile Iron	GJS 500-7
2	Seat	Stainless Steel	AISI 304/316
3	Screw	Stainless Steel	A2/A4
4	Screw	Stainless Steel	A2/A4
5	Screw	Stainless Steel	A2/A4
6	Spring	Stainless Steel	AISI 304/316
7	Bonnet	Ductile Iron	GJS 500-7
8	Bush	Bronze	C61900
9	O-Ring	Rubber	NBR
10	Fix Washer	Bronze	C61900
11	Diaphragm	Nylon Reinforced Rubber	EPDM-Nylon Fabric
12	Eye bolts	Carbon Steel	10.4.0
13	Fixing holder	Ductile Iron	GJS 500-7
14	Disc Holder	Ductile Iron	GJS 500-7
15	Seal	Rubber	EPDM
16	Seal Retainer	Ductile Iron	GJS 500-7
17	Stem	Stainless Steel	AISI 304/316
18	Plug	Stainless Steel	AISI 304/316
19	O-Ring	Rubber	NBR
20	Cap	Ductile Iron	GJS 500-7
21	Plug	Stainless Steel	AISI 304/316
22	Screw	Stainless Steel	A2/A4
23	O-Ring	Rubber	NBR
24	Screw	Stainless Steel	A2/A4

Main Valve Globe type Fully bore Flange  
DN400-800

SE-AFC-BS-A900-400-800-10-16-25-V1

Suzhou Alpine Flow Control Co., Ltd.

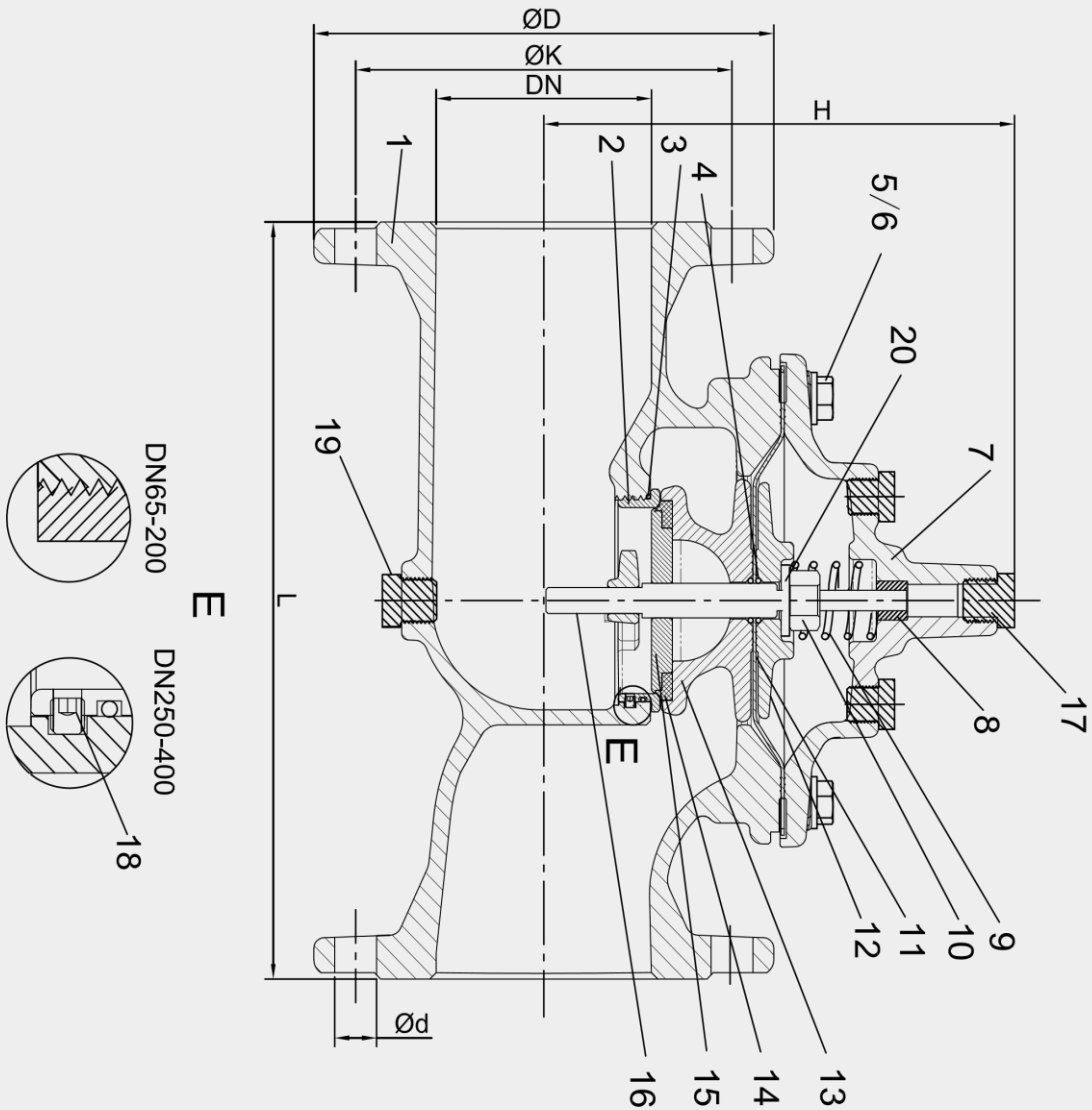
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## GAD 65 mm – 400 mm Reduced Bore



DN	L	ØD		ØK		H		Ød		ØD	L
		PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40		
65	280	160	160	140	140	180	180	160	160	160	280
80	310	200	200	180	180	225	225	180	180	180	310
100	350	250	250	230	230	265	265	200	200	200	350
125	400	300	300	270	270	310	310	230	230	230	400
150	450	350	350	320	320	360	360	260	260	260	450
200	600	450	450	400	400	460	460	340	340	340	600
250	750	550	550	480	480	560	560	400	400	400	750
300	850	650	650	580	580	640	640	460	460	460	850
350	950	750	750	680	680	740	740	520	520	520	950
400	1100	850	850	780	780	840	840	580	580	580	1100

Unit: mm

- Note:
- Main valve Test:
    - 1.1 Sealing test  
Low pressure: 0.2bar.  
High pressure: 1.1xPN+1 bar.
    - 1.2 Shell test  
1.5xPN+1 bar
  - Flange dimension according to order;
  - If need optional material or others, consult factory.

NO.	Part Name	Material
1	Body	<input type="checkbox"/> Standard GJS 500-7 <input type="checkbox"/> Option1 SUS316
2	Seat	SUS304
3	O-Ring	NBR
4	O-Ring	NBR
5	Bolt	A2
6	Washer	A2
7	Bonnet	GJS 500-7
8	Bush	C61900
9	Spring	SUS304
10	Caulking Nut	A4
11	Diaphragm	EPDM+Nylon Fabric
12	Fixing holder	GJS 500-7
13	Disc Holder	GJS 500-7
14	Seal	EPDM
15	Seat Retainer	SUS304
16	Stem	SUS304
17	Plug	SUS304
18	Screw	A2
19	Plug	SUS304
20	spring washer	A2

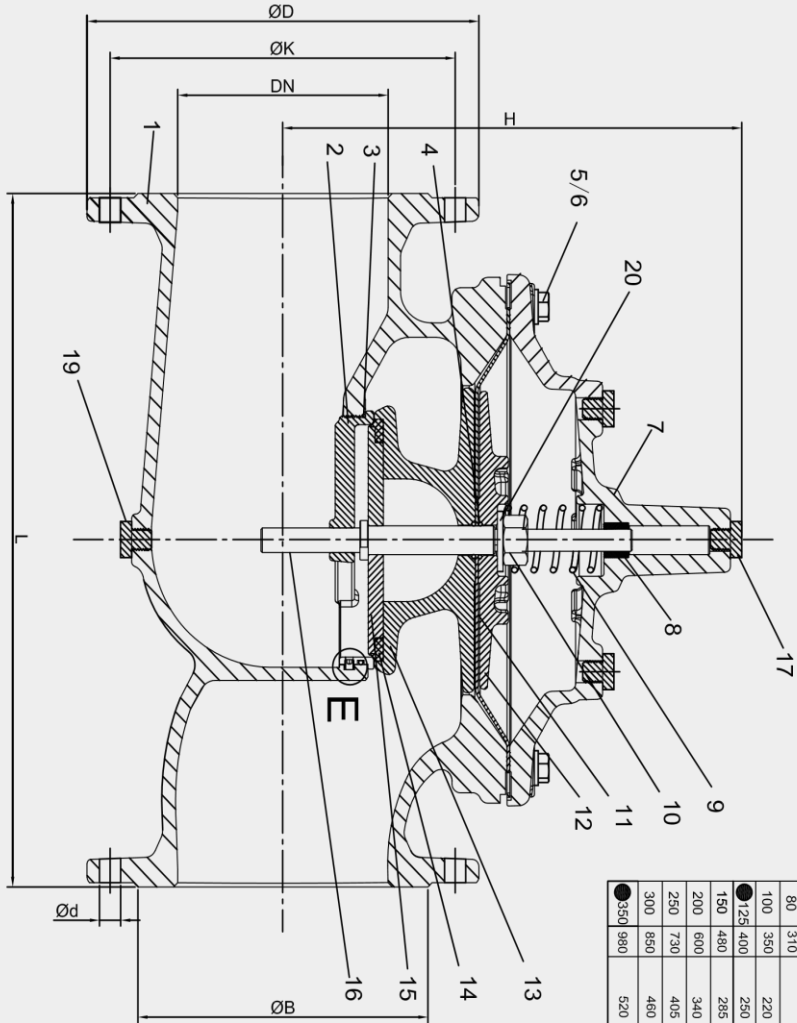
Main Valve Globe Type reduced bore Flange  
 DN65-400  
 SE-AFC-BS-R900-65-400-V2  
 Suzhou Alpine Flow Control Co., Ltd.  
 Date: Apr . 21 . 2017



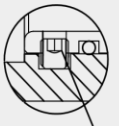
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## GAD 50 mm – 350 mm Full Bore



DN50-150



DN200-350

18

DN	L	ØD				ØK				H	N-ØD				ØB			
		PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40		PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
50	230	165	185	202	219	125	145	160	177	4-Ø19	4-Ø19	8-Ø19	Ø118	Ø99				
65	290	200	235	243	243	160	190	202	219	8-Ø19	8-Ø19	8-Ø23	Ø132					
80	310	220	270	285	285	180	210	220	243	8-Ø19	8-Ø19	8-Ø28	Ø156					
100	350	250	300	310	310	210	250	250	243	8-Ø23	8-Ø23	8-Ø28	Ø156					
125	400	285	375	375	375	235	295	310	333	8-Ø23	12-Ø23	12-Ø28	Ø211	Ø286	Ø274	Ø284		
150	480	340	425	425	425	250	350	370	428	12-Ø23	12-Ø28	12-Ø31	Ø319	Ø330				
200	600	405	485	485	485	300	400	410	478	12-Ø23	12-Ø28	16-Ø31	Ø370	Ø389				
250	730	460	555	555	555	350	440	430	538	16-Ø28	16-Ø34	16-Ø34	Ø429	Ø448				
300	850	485				400	470	490	550	16-Ø28	16-Ø34	16-Ø34	Ø429	Ø448				
350	980	520				460	470	490	550	16-Ø28	16-Ø34	16-Ø34	Ø429	Ø448				

● DN125 use same internal as DN100  
DN350 use same internal as DN300

Unit: mm

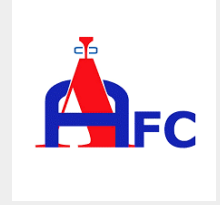
- Note:
- Main valve Test:
    - 1.1 Sealing test  
Low pressure: 0.2bar;  
High pressure: 1.1xPN bar;
    - 1.2 Shell test  
1.5xPN bar
  - Flange dimension according to order;
  - If need optional material or others, consult factory.

NO.	Part Name	Material	Standard
1	Body	Ductile iron	GJS 500-7
2	Seal	Stainless Steel	AISI304/316
3	O-Ring	Rubber	NBR
4	O-Ring	Rubber	NBR
5	Bolt	Stainless Steel	A2/A4
6	Washer	Stainless Steel	A2/A4
7	Bonnet	Ductile iron	GJS 500-7
8	Bush	Bronze	C61900
9	Spring	Stainless Steel	AISI304/316
10	Caulking Nut	Stainless Steel	A4
11	Diaphragm	Nylon Reinforced Rubber	EPDM+Nylon Fabric
12	Fixing holder	Ductile iron	GJS 500-7
13	Disc Holder	Ductile iron	GJS 500-7
14	Seal	Rubber	EPDM
15	Seal Retainer	Stainless Steel	AISI304/316
16	Stem	Stainless Steel	AISI304/316
17	Plug	Stainless Steel	AISI304/316
18	Screw	Stainless Steel	A2/A4
19	Plug	Stainless Steel	AISI304/316
20	washer	Stainless Steel	A2/A4

Main Valve Globe type Fully bore Flange  
DN50-350  
SE-AFC-BS-A900-50-350-V2

Suzhou Alpine Flow Control Co., Ltd.

Date: Apr . 21. 2017



## MATERIALS OF CONSTRUCTION, OPTIONALS & TECHNICAL DATA

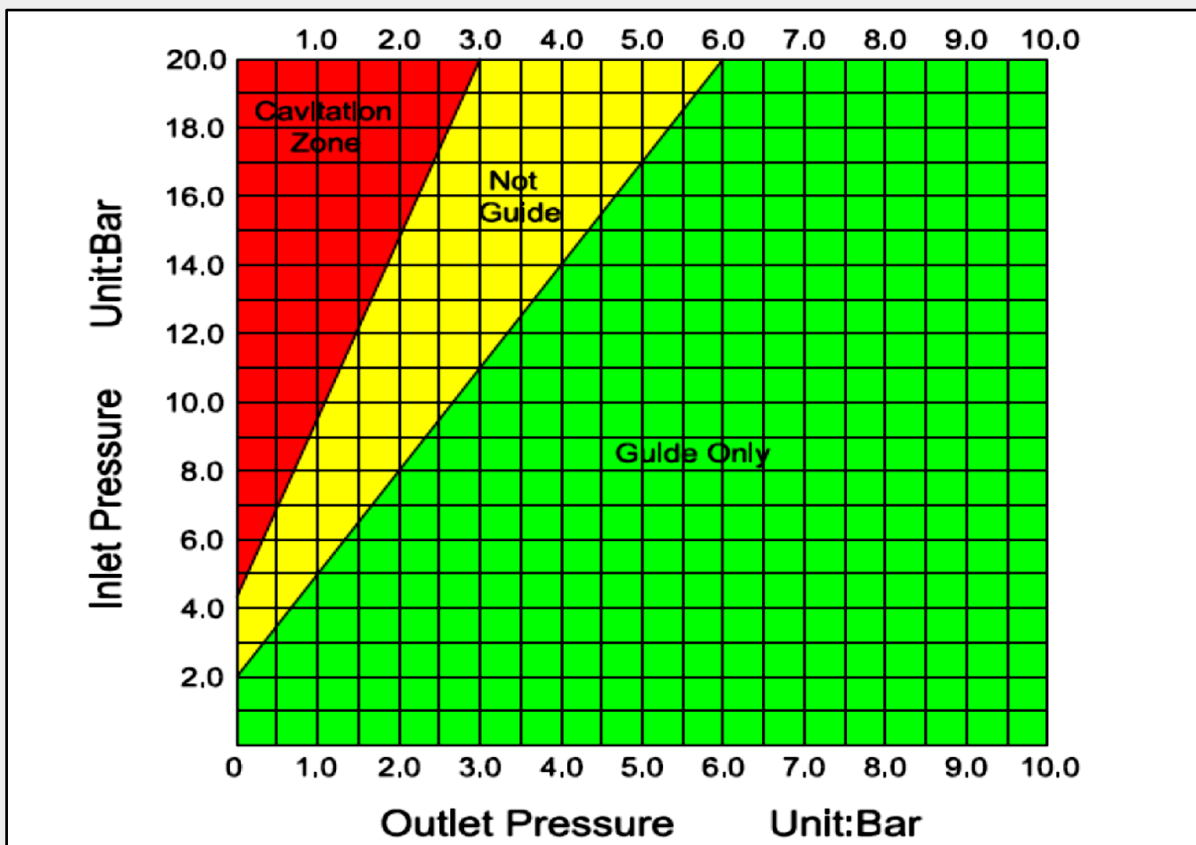
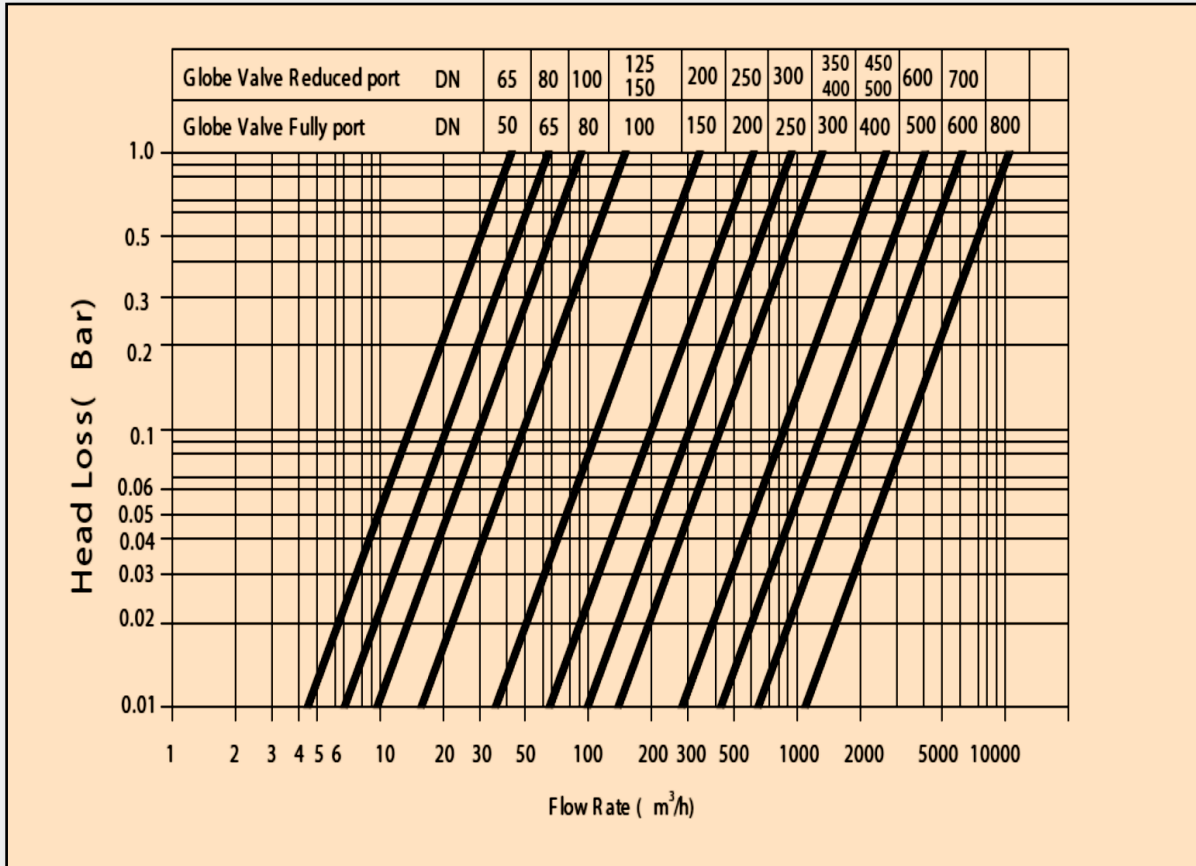
Sr. No.	Description	Grade, Details
1	Body, Bonnet, Disc Holder, Diaphragm Upper Plate	DI Grade GJS/SGI 500/7/GGG 50
2	Double guided Shaft/Stem	AISI SS 304/optional in SS 316 for balanced stroke & control
3	Body Seat and Retainer	AISI SS 304/optional in SS 316
4	High Performance Diaphragm	Reinforced nylon fabric EPDM/NBR-food grade. WRAS approved.
5	Resilient Seat and O rings	EPDM/NBR. WRAS approved
6	Spring	AISI SS 304/optional in SS 316
7	Bushing in Brass	CZ 122
8	Hex Bolt, Washer, Nut	A2 AISI SS:304, corrosion resistant
9	Tubings, Plugs and connecting fittings	Rigid AISI SS 304
10	Extra tapping plugs for SCADA modifications and adding other features/pressure gauge	AISI SS 304
11	Strainer, Needle Valves for speed control, Ball Valves for isolation	AISI SS 304
12	Various Pilots	AISI SS 304
13	Fusion Bonded Epoxy Coating with a Minimum 250-Micron Coating.	RAL Blue/Similar. WRAS approved.
14	Pressure Rating and Flange Drilling Options	PN 10, 16, 25
15	Optional Accessories: Air Vent Valve, Glass Position Indicator, Emergency Valve opening barrel with ball valve, Latching solenoid and battery-operated timer, Pressure Gauges, Surge Anticipating Panel, FCV Controller, Pressure Transmitter, Pressure Switch, On-Off 9vDC battery switch system. SS 304/316 cavitation arrangement.	
16	Direct Membrane sealing Valve option also available upto 150 mm for optimizing the cost of Rural Water Supply Projects.	
The valve can be serviced in line as the valve is Straight Body.		Globe design for superior linear characteristics. Best suited for controlling operations
Tight shut off due to internal weight of the disc		Sizes available 50 mm to 800 mm
Temperature rating – 10 Deg.C to 80 Deg.C		Meets standard BS EN 1074-5, ISO 5208, BS EN 12266-1, BS EN 558-1, BS EN 1092-2



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## HEAD LOSS & CAVITATION DATA CONTROL VALVES





## Selected Installations





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## CWPRS CERTIFICATION 450 MM DIA.



**GOVERNMENT OF INDIA**  
 Ministry of Jal Shakti  
 Department of Water Resources, River Development &  
 Ganga Rejuvenation  
**Central Water & Power Research Station**  
 Khadakwasla, Pune- 411024



### HYDRAULIC MACHINERY AND CAVITATION DIVISION TEST CERTIFICATE FOR DIAPHRAGM TYPE CONTROL VALVE

CERTIFICATE No: CWPRS/HMC/19-20/G- 037

TEST DATE: 14.08.2019

1	Calibration referred by	M/s Allied Electro Mechanicals Pvt. Ltd., Pune
2	Calibrated for	M/s Suzhou Alpine Flow Control Co. Ltd. PRC, through M/s Alpine Flowtech, Thane
3	Project	Wardha WSS (SCADA Automation of ESR), Wardha Municipal Council; PMC: Maharashtra Jeevan Pradhikaran
3	Type of Valve	ALPINE Brand Double Solenoid Hydraulically Operated Diaphragm Type Automatic Flow Control Valve (AFCV)
4	Instruments installed in Testing rig	
	a) PLC Drive Concord AFCV RTU & Kokhan Automation ABB	b) Flow transmitter (Make-Adept, Pune; Ultrasonic)
	c) Pressure Sensor (Make - Electronet, Pune)	d) Level Transmitter (Make - Baumer)
5	Reference standard	Gravimetric method with an uncertainty + 0.3%
6	Line Size & Valve Size	450 mm NB
7	Fluid media	Clear cold water
8	Flow Range calibrated	0 - 900 m <sup>3</sup> /hr

#### OBSERVATION TABLE

##### REGULAR TEST READINGS AT VARIOUS SET POINTS

Sr. No.	Inlet Pressure P <sub>1</sub> (bar)	Reference flow rate Q (m <sup>3</sup> /hr)	FCV Set Point	Outlet Pressure P <sub>2</sub> (bar)	ΔP (P <sub>1</sub> - P <sub>2</sub> )	Response time (in Secs)	$K_v = \frac{Q\sqrt{G}}{\Delta P}$	$C_v = K_v \times 1.156$
1	Differential Pressure transducer installed	898.900	100%	Differential Pressure transducer installed	0.2470		1808.685	2090.84
2		679.282	75%		0.3810	220	1100.494	1272.171
3		430.339	50%		0.3780	206	699.9464	809.1381
4		235.552	25%		0.4840	200	338.5822	391.401
5		0	0%		0.5638	465	0	0

##### RANDOM TEST READINGS AT VARIOUS SET POINTS

1	-	283.642	Random	-	0.4350	68	430.0569	497.1458
2	-	543.432	Random	-	0.3800	59	881.5631	1019.087
3	-	809.931	Random	-	0.1980	80	1820.185	2104.133

#### REMARKS

- PLC command, Input Signal from flow transmitter and flow control valve response were in proper synchronization mode. Valve operation is linear during the variation of flow at various set points with different valve openings. At 100% set point (Full Opened Position) 0.2470 bar pressure drop was observed in the circuit.
- A level indicator and Pressure Transmitter are also synchronized to observe the flow control response during the test and the operations were found to be satisfactory.

*K<sub>v</sub> = Flow Coefficient (General use in Europe), C<sub>v</sub> = Valve Coefficient (General use in USA), G = Specific Gravity of Water = 1*

#### TEST PARTICIPANTS.

TESTED BY CWPRS	WITNESSED BY
Shri Shobhit Singh, RA	Shri Zalke, EE, MJP, Nagpur Shri Bandewar, Wardha Municipal Council Shri Prabal Dabey, Er., Alpine Flowtech Shri Prasad Gadkari, Allied Electro Mechanicals, Pune Shri Govind Hamdapurkar, Concord Technologies Shri S. Kulkarni, Pristine Automation

(K U Farande)  
 Asst Research Officer

(Dr K Kumar)  
 Scientist 'C'





॥ अविस्त जल प्रदाय ॥



# CERTIFICATIONS



## Certificate of Registration

This is to certify that the Quality Management System of

**AFC Valves Malaysia Sdn Bhd**

No 26, Jalan Sg. Jeluh 32/192, Kawasan Perindustrian Kemuning, Seksyen 32, 41460 Shah Alam, Selangor.

Has been independently assessed and is compliant with the requirements of:

**ISO 9001: 2015**

For the following scope of activities:

Assembly, Machining & Testing Of Water & Sewage Industry Valve

Certificate Number: 19ACM8123Q

Date of initial registration	02 <sup>nd</sup> October 2019
Date of this certificate	04 <sup>th</sup> October 2019
Certificate expiry	01 <sup>st</sup> October 2022

(subject to the company maintaining its system to the required standard)

*[Signature]*  
Authorised Signatory

This certificate is the property of ACM Limited and shall be returned immediately on request.  
ACM Limited, Unit 5 Merus Court, Meridian Business Park, Leicester, LE19 1RQ

+44 (0)1527 877462 info@acmcert.com



## Certificate of Registration

This is to certify that

**Suzhou Alpine Flow Control Co., Ltd.**  
Unified social credit code: 9132050069131047XX

Registered address: Plant B5, Chaoyang Industrial Workshop, Caochu Industrial Park, Xiangcheng Economic and Development District, Suzhou City, Jiangsu Province, P.R.China  
Audited address: Plant B5, Chaoyang Industrial Workshop, Caochu Industrial Park, Xiangcheng Economic and Development District, Suzhou City, Jiangsu Province, P.R.China

Has been assessed as conforming to meet the requirements of

**GB/T19001-2016 / ISO9001:2015**

for the scope of activities

**Design, manufacture and sale of waterway valves within the qualification scope**

Certificate No: **ZZW18Q16138R05**  
Issue Date: **21 August 2018** Valid until: **20 August 2021**

Attention: Subject to adherence to the agreed ongoing audit programme, successful endorsement of certification following each audit and compliance with CI Regulations  
Certification Range of product service excludes the relevant administrative verification that are not acquired the valid national rule certification permission. JC certification

Signed for and on behalf of *[Signature]*  
General Manager

Annual surveillance audit for the first time  
Annual surveillance audit for the second time  
Annual surveillance audit for the third time

Note: According to the certification requirements, the interval between the annual surveillance audit and the last spot audit cannot exceed twelve months.

Shanghai Zhongshui Certification Co., Ltd. Tel: +86 21 3952 8556 Fax: +86 21 6426 7178  
Add: Room 1118 No.22, Lane 20, Hejian Road, Jading District, Shanghai City, P.R.China  
The certificate information is validity on: Our company Web: www.zzwz.com.cn CNCA official web: www.cncacg.org.cn

## Certificate of Conformity

**Type test as per EN 1074-5:2000**

Certificate No.: **CoC-154344952-AFC-03**

Name and address of the manufacturer: **Suzhou Alpine Flow Control Co., Ltd.**  
Plant B5, Chaoyang Industrial Workshop, Caochu Industrial Park, Xiangcheng Economic and Development District, Suzhou City, Jiangsu Province, P. R. China

Goods Inspected: **Ductile Iron Control Valve**  
Brand / Model: **AFC Series A900**  
Nominal Size (Range): **DN 50, DN 65, DN 80, DN 100, DN 125, DN 150, DN 200, DN 250, DN 300, DN 350, DN 400, DN 500 and DN 600**  
Pressure Rating: **PN16**  
Inspection: **as per EN 1074-5:2000 and EN 1074-1:2000**  
Test report no.: **CR-154344952-AFC-03**  
Production Location: **Suzhou Alpine Flow Control Co., Ltd.**  
Plant B5, Chaoyang Industrial Workshop, Caochu Industrial Park, Xiangcheng Economic and Development District, Suzhou City, Jiangsu Province, P. R. China


Valid until: **July 25, 2023**  
This certificate remains valid subject to satisfactory annual surveillance assessment.

Shanghai August 29, 2018

*[Signature]*  
General Manager  
Pressure Equipment and Plant Technology  
TUV Rheinland Industrial Services  
TUV Rheinland Greater China

TUV Rheinland (Shanghai) Co., Ltd.  
Shanghai TUV Rheinland Building, No.177, Lane 777, West Guangzhong Road, Shanghai, P.R. China 200072  
Tel: +86-21-6108-1178  
Fax: +86-21-6108-1190

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## Verification of Compliance



No. EC. 1282.0D140214.SAF0486  
Technical Construction File no. AF-14000290

Certificate's Holder: **Suzhou Alpine Flow Control Co., Ltd.**  
B5 Chao Yang Factory, Caochu Industrial Park, Xiangcheng Economic Development Zone, Suzhou, Jiangsu Province P.R.C

Product: **Valve**

Model(s): **Gate Valve, Check Valve, Y Strainer, Air Release Valve, Hydraulic Control Valve**

Directives: **97/23/EC Pressure Equipment Annex III Module H Full Quality-Assurance**

Standards: **EN 12266-1:2012, EN 12266-2:2012**

Remark: This Verification of Compliance has been issued on a voluntary basis. ECM confirms that a Technical Construction File (TCF) is existent for the above listed product(s). The TCF satisfactorily covers the essential requirements of the above listed Directive(s). Other relevant Directives have to be observed in case they are applicable. This Document is only valid for the equipment and configuration described and in conjunction with the TCF detailed above. Whereas the Manufacturer is responsible of the certification of the product(s) and not exempted to perform all the necessary activities before placing the product(s) on the market. The Manufacturer is also responsible of the internal production control to ensure the product(s) are in compliance with the essential requirements of the above mentioned Directive(s). This certificate can be checked for validity at [www.entecerma.org](http://www.entecerma.org)

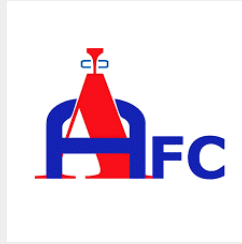
Date of issue **JANUARY 2014** Expiry date **JANUARY 2019**

Certification Chief Manager **Tim Mahan** Certification Deputy Manager **Vijla Maloj**



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شهادة - Certificate - Сертификат - 證明書 - Certificat - 증명서



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