

Control your flow AFFCO Flowcontrol

General
Introduction



AFFCO
16
CL150
CF8M
160529

AFFCO Global



**AFFCO Flow Control
SHANGHAI**



**AFFCO Flow Control
SINGAPORE**



**AFFCO Flow Control
EUROPE**



**AFFCO Flow Control
MIDDLE EAST**

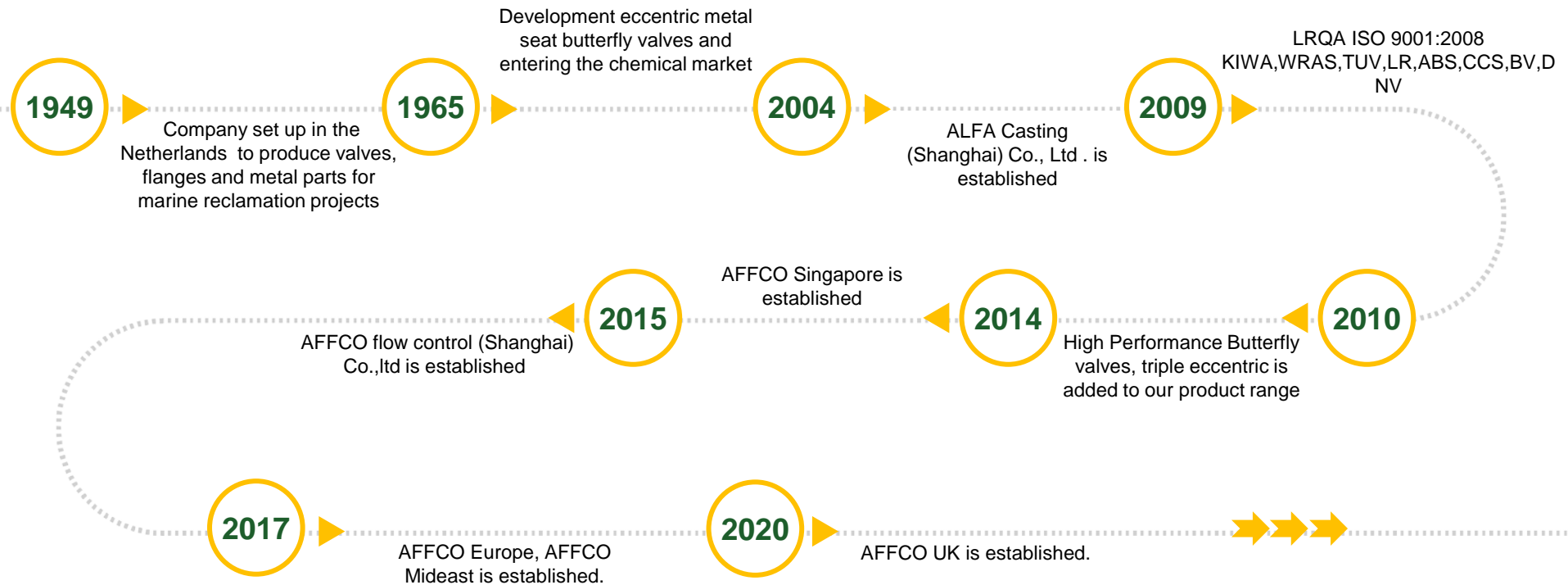


**AFFCO Flow Control
UK**

The AFFCO group of companies are strategically positioned globally with sales and distribution centers in the Netherlands, United Kingdom, China, Du-bai and Singapore, and will soon expand into the US and the rest of major cities and continents.

Equipped with internationally expertised teams, AFFCO are getting rooted in and contributing to local communities.

AFFCO Milestones



AFFCO Philosophy



Vision

To Be A Sustainable And
Honorable Flow Control
Enterprise !



Mission

Forging High Quality Flow
Control Products with
Consistent Craftsman Spirit !



Goal

To be an international, quality
manufacturer & provider of butterfly
valves, valves and flow control systems,
serving all major industries and
exceeding customer expectations.

AFFCO Culture

Happiness

We endeavor to create happy environment for our people, share happiness with our valued customers and suppliers, transfer happiness to our society, we strongly believe that Happiness is the only source of successful products and company !

Professionalism:

We are not satisfied with our owning professionalism, while, keeping improving without stop, Professionalism is one of our foundations to survive and develop into the future !

Commitment:

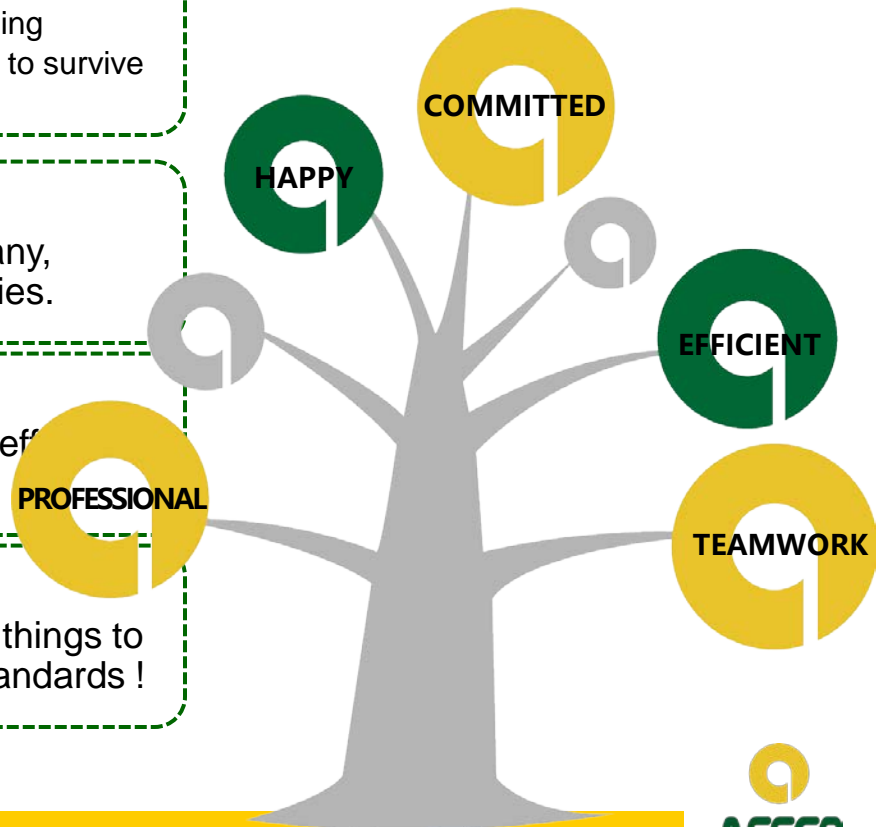
In our belief, Commitment should exist within our company, people, management, customer, supplier and communities.

Efficiency:

In order to survive in the competitive world, we must be efficient otherwise, we could not make it.

Teamwork:

With teamwork, we could have synergies to make great things to happen together, which will reflect our highest ethical standards !



AFFCO Factory View



AFFCO Facility



Lastest processing, assembling and testing equipments including CNC,CMM, digital display horizontal boring & milling machine, machine center, centerless grinding machine, automatic feed drill, radial drilling machine, plasma welder, automotive coating, hydraulic valve tester, independent cryogenic testing room, cleaning assembling room are used in the product lines to assure precision, stable quality and manufacturing capabilities.

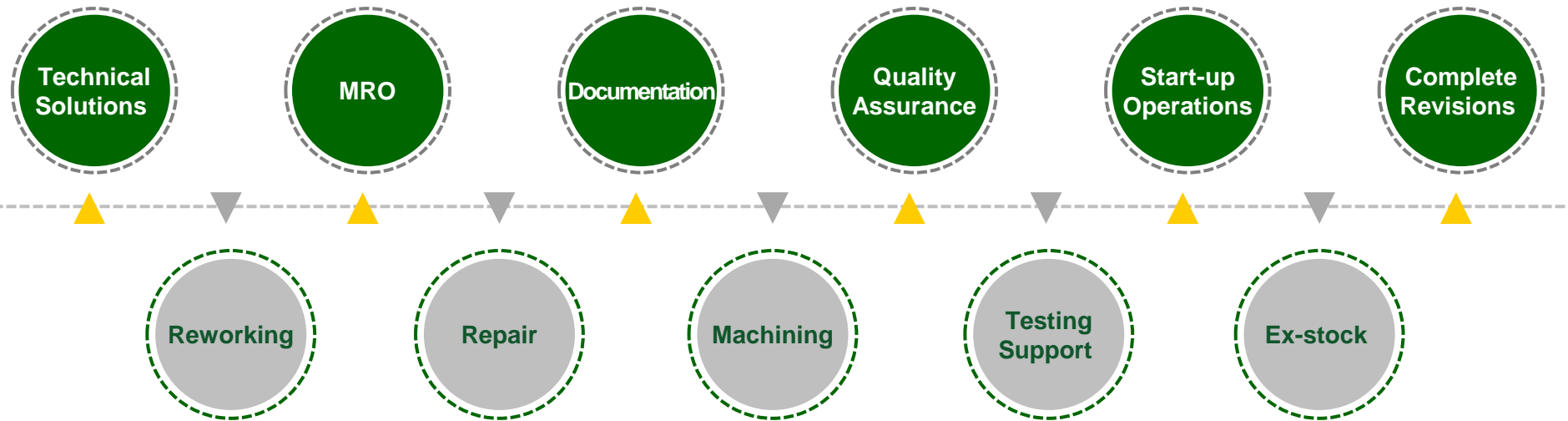
AFFCO Products Process



100%
Shell test and closure test



AFFCO Service



AFFCO Product Range



Concentric Series



Double Eccentric Series



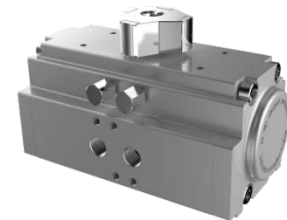
Triple Eccentric Series



Quadruple Eccentric Series



Damper Series



Actuator

Concentric Series



Wafer Type S570



Lug Type S640



Double Flange Type S460



Mono Flange Type
S600&610

Product Description—Vulcanized

Range of size: DN40(1 ½”) up to DN2000 (80”) bigger sizes on request

- Design STD: EN593, API609, JISF7480, AWWA C504
- Face to Face dimension:
EN558-1; API609; JISF7480;ISO5752
- Flange connection:
EN1092(PN6/10/16/25) /
ASME B16.5(CL150/300) /
JIS B2239 & JISB2220 (JIS5K /10K /16K /30K)
- Top flange: ISO 5211
- Pressure Test STD: EN12266-1; API 598; JISF7400
- Body material: Ductile Iron/Cast Steel/Bronze/Stainless Steel/Super Duplex
- Actuation options: Manual, pneumatic, electric or hydraulic

Concentric Series



Double Flange Type S360 (U-Type)

Product Description—Vulcanized

Range of size: DN50(2") up to DN700(28") bigger sizes on request

- Design STD: JISF7480
- Face to Face dimension:
JISF7480
- Flange connection:
JIS B2239 & JISB2220&JIS B2210 (JIS5K /10K/16K)
- Top flange: ISO 5211
- Pressure Test STD: JISF7400
- Body material: Ductile Iron/Cast Steel/Bronze/Stainless Steel/Super Duplex
- Actuation options: Manual, pneumatic, electric or hydraulic

Concentric Series



Wafer Type S575



Lug Type S645



Double Flange Type S465

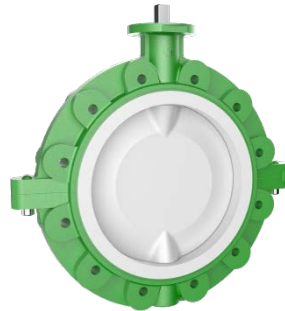
Product Description—Replaceable

- Range of size: DN40(1 ½”) up to DN2000 (80”) bigger sizes on request
- Design Standard : EN593, API609, JISF7480, AWWA C504
- Face to Face dimension:
EN558-1; API609; JISF7480;ISO5752
- Flange connection:
EN1092(PN6/10/16/25) / ASME B16.5(CL150/300) / JIS B2239 & JISB2220 (JIS5K /10K /16K /30K)
- Top flange: ISO 5211
- Pressure Test STD: EN12266-1, API 598, JISF7400
- Body material: Ductile Iron/ Cast Steel/ Bronze/ Stainless Steel/ Super Duplex
- Actuation options: Manual, pneumatic, electric or hydraulic

Concentric Series (PTFE Lined)



Wafer Type S586



Lug Type S686



Double Flange Type S486

Product Description:

- Range of size: DN40(1 ½”) up to DN600(24”) and above sizes on request
- Design Standard: EN593
- Face to Face dimension: EN558-1; API609; ISO5752
- Flange connection: EN1092(PN10/16)
ASME B16.5(CL150)
JIS B2211 & JISB2212 (JIS5K /10K)
- Top flange: ISO 5211
- Pressure Test STD: EN12266-1; API 598; JISF7400
- Body material: Ductile Iron/Cast Steel/Stainless Steel
- Actuation options: Manual, pneumatic, electric or hydraulic

Double Eccentric Series



Lug Type S970



Wafer Type S960



Double Flange Type S980

Product Description:

- Range of size: DN50(2") up to DN700(28") and above sizes on request
- Design STD: EN593/API609
- Face to Face dimension: EN558-1/API609//ISO5752
- Flange connection: EN1092(PN6/10/16/25) ASME B16.5/B16.47(CL150/300) JISB 2239 & JISB 2220 (JIS5K /10K /16K /30K)
- Top flange: ISO 5211
- Pressure Test STD: API 598/ EN12266-1
- Body material: Ductile Iron/Cast Steel/Bronze/Stainless Steel/Super Duplex/Titanium
- Seat Type: soft seat, fire safe seat and metal seat
- Actuation options: Manual, pneumatic , electric or hydraulic

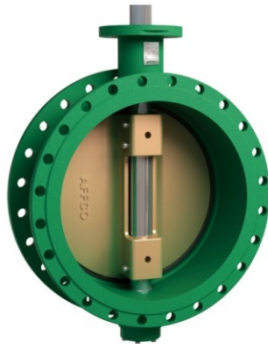
Double Eccentric Series with Replaceable Seat



Wafer Type S930



Lug Type S940



Double Flange Type S950

Product Description:

- Range of size: DN50(2") up to DN900(36") and above sizes on request
- Design STD: EN593, JISF7480, API609
- Face to Face dimension:
EN558-1, JIS B 2002, API 609
- Flange connection:
EN1092-1(PN10/16)
JIS B 2220 (JIS5K/10K/16K)
ASME B16.5/B16.47 (CL150/CL300)
- Top flange: ISO 5211
- Pressure Test STD: EN12266-1, API 598, JISF7400
- Body material: Ductile Iron /Cast Steel /Bronze /Stainless Steel /Super Duplex
- Actuation options: Manual, pneumatic, electric or hydraulic

Triple Eccentric Series

Metal to Metal



Wafer Type S760



Lug Type S770



Double Flange Type S780

Product Description:

- Range of size: DN80(3") up to DN1200(48") and above sizes on request
- Face to Face dimension: API609 Category B; EN558-1
- Flange connection: EN1092-1(PN16/25/63/100) ASME B16.5/B16.47(CL150/300/600)
- Top flange: ISO 5211
- Body material: WCB/CF8M/CF3M/AB2..
- Actuation options: Manual, pneumatic, electric, hydraulic

Quadruple Eccentric Series



Double Flange Type S720

Product Description:

- Range of size: DN 80 up to DN 1600 and above sizes on request
- Face to Face dimension:
API 609; EN558-1
- Flange connection:
EN1092-1(PN16/25/63/100/160/250)
ASME B16.5/B16.47(CL150/300/600/900/1500)
- Top flange: ISO 5211
- Body material: WCB/CF8M/CF3M/Duplex
- Actuation options: Manual, pneumatic, electric, hydraulic

Damper Series



Double-blade air sealing flange type series S452

Product Description:

- Range of size: DN 100 up to DN 3000 and above sizes on request
- Flange connection:
 - EN1092 /DIN86044
 - JIS B2239 /JIS F7805
 - GB /T9115
- Testing
 - ANSI/ASME AG-1
 - API 598
 - EN 12266-1
 - JB/T 10992-2010
 - JB/T 8692-2013

Other Valves-Soft Seated Ball Valve Series



2 Piece Flanged

- Full Port, ASME Class 150 & 300, 1/2" to 12"
- Fire Safe Available, Live loaded packing, Metal Seat Available



1 Piece Flanged

- Standard Port, ASME Class 150 & 300, 1" to 12",
- Fire Safe Available, Live loaded packing



3 Piece

- Up to 5000 psi, Standard Port 1/4" to 2",
- PEEK Seats, Live Loaded Packing, Threaded , Socket Weld



3 Piece

- Up to 1000 psi, Full Port 1/4" to 12"
- Live Loaded Packing, Threaded, BW, SW, Extended, Clamp, Flange



3Ways & 4 Ways

- ANSI CLASS 150/300, 1/4" to 4"
- NPT Treated Ends or Flange Connect



Economical design

- 1 Piece, 1000 psi, 1/4" to 2"
- Reduced Port, NPT Treated Ends

Other Valves-Gate, Globe, Check



Wedge Gate Valve

- Full bore, API600, Class150 to Class1500
- Bolted bonnet, OS&Y, Metal Seated, Rising Stem



Globe Valve

- Plug type, BS1873, Class150 to Class1500
- Bolted bonnet, OS&Y, Metal Seated, Rising Hand-wheel



Dual Plate Check Valve

- Wafer type, API594, Class150 to Class1500
- Integral Seat, Spring Return, Vertical and horizontal installation



Swing Check Valve

- Flanged ends, API6D, Class150 to Class1500
- Replaceable Seat, Bolted Bonnet



Through Conduit Gate Valve

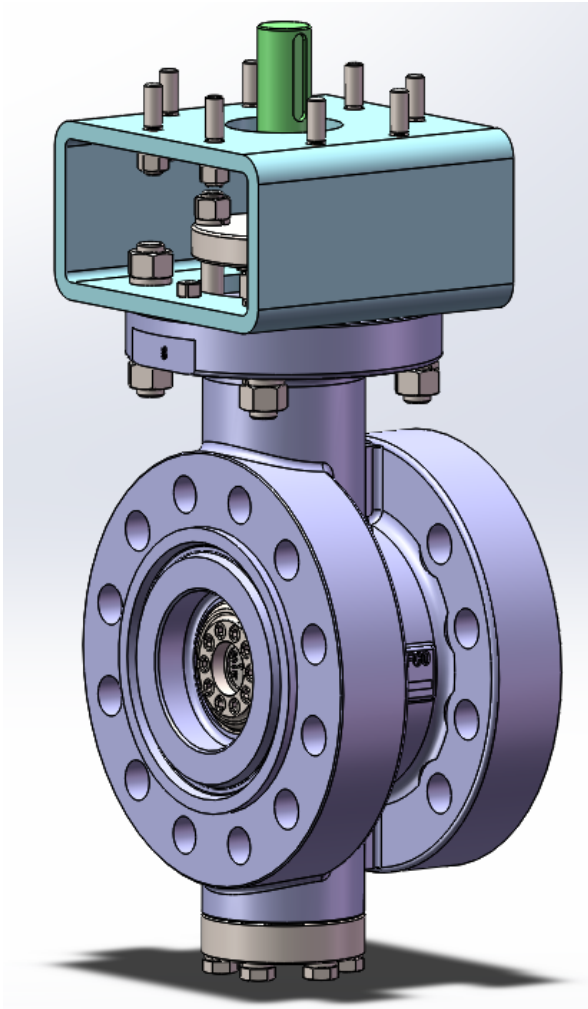
- Full bore, API6D, Class150 to Class1500
- Single Plate, drain port, full bore, fire safe as API607/API6FA



Forged Valve

- Compact Design, API602, Class150 to Class 1500, Class800
- Bolted Bonnet, F to F as per Factory Standard, Test: API598

New Products Launched-High Class Valve



Product Description:

- Range of Size: DN200 - DN600
- Range of Class: CL900 - CL2500
- Flange Type:
Double Flange
- Flange connection: ASME B16.5
- Actuation options: Manual, pneumatic, electric, hydraulic

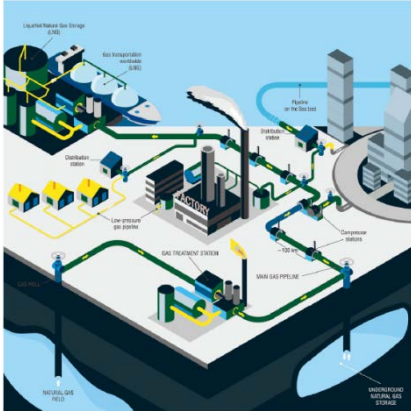
New Products Launched- High Temperature Valve



Product Description:

- Range of Size: DN100/DN125/DN150/DN200/DN250
- Range of Temperature: 450-815
- Face to Face Dimension:
API609 Category B; EN558-1 or Customer Requirements
- Flange Type:
Wafer/Lug/Double Flange
- Flange connection:
EN1092-1; ASME B16.5
- Top flange: ISO 5211
- Body material: WC6/WC9/CF8/CF8M/CF10M
- Actuation options: Manual, pneumatic, electric, hydraulic

New Products Launched- Cryogenic Valve



Cryogenic Double Offset Butterfly Valve:

- Size Range: DN50 – DN600
- Class Range: CL150 – CL300

Cryogenic Triple Offset Butterfly Valve:

- Size Range: DN80 – DN600
- Class Range: CL150 – CL300

Cryogenic Globe Valve:

- Size Range: DN25 – DN400
- Class Range: CL150 – CL300

Cryogenic Swing Check Valve:

- Size Range: DN25 – DN500
- Class Range: CL150 – CL300

Cryogenic Ball Valve:

- Size Range: DN25 – DN300
- Class Range: CL150 – CL300



Actuation



Gearbox, Pneumatic, Electric and Hydraulic actuators:

- Apply for valve scope: DN40 (1 ½") up to DN2000 (80")
bigger sizes on request
- Whole control panels can be provided (Manual override, Solenoid valve, Limit switch box, E/P positioner).



Marine Approvals



TYPE APPROVALS

Lloyd's /BV/ABS/CCS/DNV/RMRS/RINA - Concentric Butterfly Valve

Lloyd's/BV/ABS (For HP & Fire Safe)/TUV(Fire Safe) - Double Eccentric Butterfly Valve

PRODUCT CERTIFICATES

LR/BV/ABS/CCS/DNV

GL/RINA/IRS/KR/NK

7 major type approvals for marine applications, able to supply all class product certificates.

Marine Approvals

EC TECHNICAL FILE RECIPT

This is to certify that Lloyd's Register Certification, a Notified Body under the terms of the European Union Directive 90/269/EEC, has issued this certificate in accordance with the requirements of the European Union Directive 90/269/EEC, as amended by Directive 2002/45/EC, and the European Union Directive 90/269/EEC, as amended by Directive 2002/45/EC, and the European Union Directive 90/269/EEC, as amended by Directive 2002/45/EC.

APPLICANT: ALFA CASTING (SHANGHAI) CO., LTD. No. 88, Lane 4880, Hu Nan Road, Pu Dong, Shanghai 201317, People's Republic of China

TECHNICAL FILE DESCRIPTION: Butterfly valve with valve (butterfly valve) Code: 3483104/0001/0001

TECHNICAL FILE REFERENCE: ATFA Technical File No. 010

ATEX

CERTIFICATE OF APPROVAL

This is to certify that the Management System of:

Alfa Casting (Shanghai) Co., Ltd.
 No. 88, Lane 4880, Hu Nan Road,
 Pu Dong New Zone, Shanghai, 201317
 People's Republic of China
 Organization Code: 76089223-1

has been approved by Lloyd's Register Quality Assurance to the following Management System Standards:

ISO 9001:2008

The Management System is applicable to:

Design and Manufacture of Butterfly Valve and Relevant Parts (Esp. for abroad).

Approval Certificate No: QAC6007450 Original Approval: 30 July 2009
 Current Certificate: 30 July 2015
 Certificate Expiry: 29 July 2018

Inspection report

on the basis of the Kiwa regulations for Product Certification 2008

kiwa

Inspection report on the basis of the Kiwa regulations for Product Certification 2008

Use reference: 2 April 2014

Registration of test results

The performance of tests is recorded on test records. In the production process the conducting of the tests are recorded on test records. However, the application of the tests shall be signed by the test records.

Table 1: Inspection results

Item	Inspected	Accepted	Rejected
1. Material	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Dimensions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Surface finish	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Mechanical properties	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Non-destructive testing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Final control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Final inspection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Final control	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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CERTIFICATE

(Certificate of conformity with technical requirements in accordance with the requirements of the European Union Directive 90/269/EEC, as amended by Directive 2002/45/EC, and the European Union Directive 90/269/EEC, as amended by Directive 2002/45/EC, and the European Union Directive 90/269/EEC, as amended by Directive 2002/45/EC.)

APPLICANT: ALFA CASTING (SHANGHAI) CO., LTD. No. 88, Lane 4880, Hu Nan Road, Pu Dong, Shanghai 201317, People's Republic of China

TECHNICAL FILE DESCRIPTION: Butterfly valve with valve (butterfly valve) Code: 3483104/0001/0001

TECHNICAL FILE REFERENCE: ATFA Technical File No. 010

ATEX

Our Quality Management System has been certified by LRQA since 2009.

WRAS

Water Regulations Marking Scheme

This certifies that

ALFA CASTING (SHANGHAI) CO. LTD.

has had the undermentioned product examined, tested and found, when correctly installed, to comply with the requirements of the United Kingdom Water Supply (Water Fittings) Regulations/Scottish Water Bylaws.

S44 RANGE OF BUTTERFLY VALVES (DN15 - DN120)

This certificate is valid for a maximum of 10 years from the date of issue. Confirmation of the current status of an approved mark is available from the WRAS Helpline (www.wras.co.uk/helpline)

The product is available in the following sizes and materials for a period until:

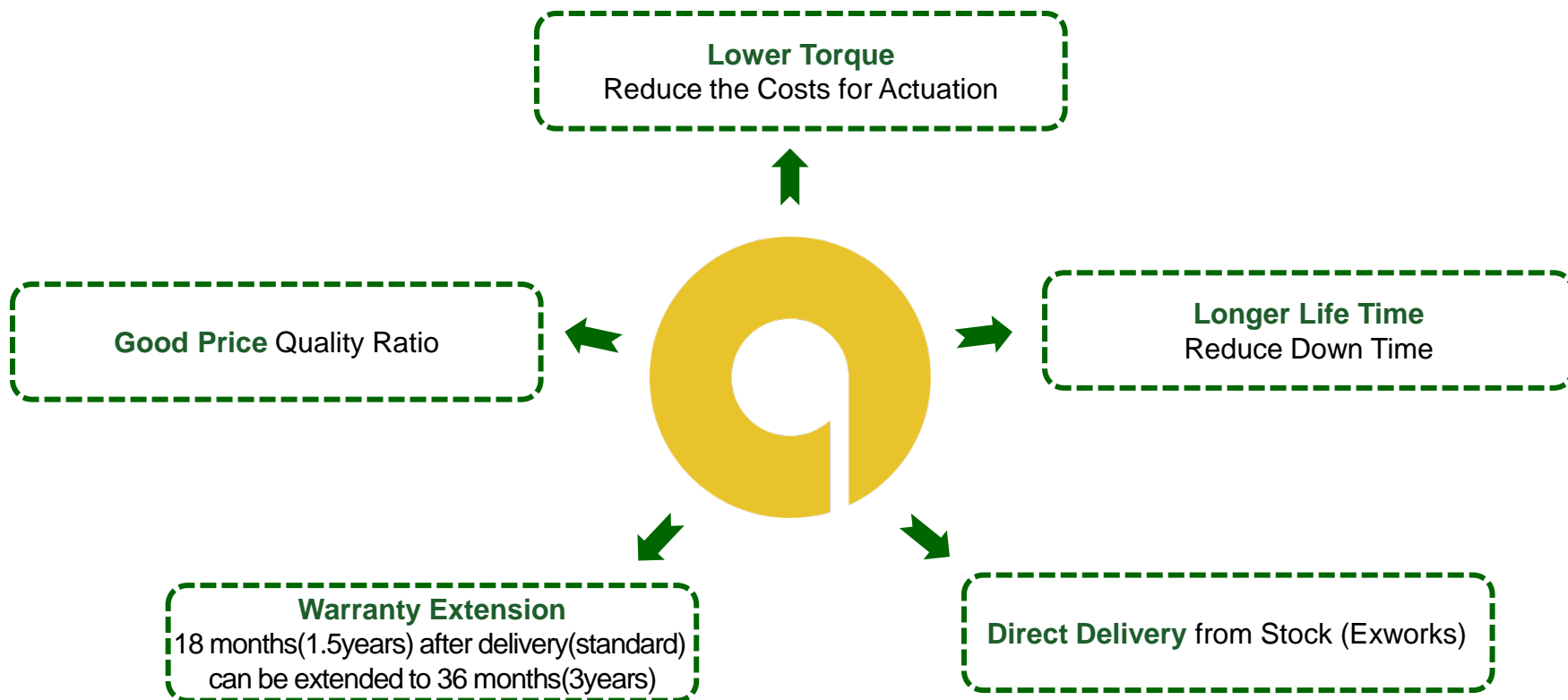
30 SEPTEMBER 2017

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WRAS

Added Value



Market Segments



Marine& Ship Building



Water Treatment



Oil & Gas



Desalination



Power station



Chemical



Building Utility & Cooling



Refinery

Contacts

AFFCO Flow Control (Shanghai) Co., Ltd

No. 99 Desheng Road,
Economic and Technological Development Area,
Feng Xian, Shanghai 201411

Tel: +86 (21) 5814 7017

Fax: +86 (21) 5814 7885

Web: www.affco-flowcontrol.com

Email: sales@alfacasting.com



AFFCO Global

AFFCO Flow Control Europe B.V.

Opweg 90a, 2871 NG, Schoonhoven
The Netherlands
Tel: +31 (0)85 877 27 56
Fax: +31 (0)85 782 51 01
Web: www.affco-flowcontrol.com
Email: info@affco-flowcontrol.com

AFFCO Flow Control Pte Ltd

237, Pandan Loop, #05-04, Westech Building
Singapore 128424
Tel : +65 65709920
Fax : +65 65709923
Email: info@affco.com.sg

AFFCO Flow Control Mideast FZE

SAIF Suite Y-16
P.O. BOX 123612
Sharjah – U.A.E.
Tel: +971 6 5220879
Email: info@affcomideast.ae

AFFCO Flow Control UK Ltd.

Unit 7, Stafford Park 12, Telford,
Shropshire, TF3 3BJ, England
Tel: +44 (0)1952 459 338
Email: sales@affco-flowcontrol.co.uk



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