

Certificate of Compliance

Certificate: 1087464 (248050) Master Contract: 248050

Project: 70060015 **Date Issued:** 2016-01-14

Issued to: Ningbo EFF Manufactory Co. Ltd.

LongShan Industrial District

208 LongZhen Road

Cixi City, Zhejiang 315311

CHINA

Dong Tai Lin

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Vajíra Sarathchandra Vajira Sarathchandra

PRODUCTS

CLASS C3371 10 - VALVES (GAS)-Lever Operated Non-Lubricated Shutoff CLASS C3371 90 - VALVES (GAS)-Lever Operated Non-Lubricated-Shutoff-Certified to U.S. Standards

Model Number TYPE Size (Inches)

For use with Natural, Manufactured, Mixed, Liquefied Petroleum or Propane and LP Gas-Air mixtures;

Regular/Full port, 125 psig and 175 psig ball valves;		Trade Name: EFF
EFFN-01	Straight, NPT Female Connections	1/4" x 1/4"
EFFN-02	Straight, NPT Female Connections	3/8" x 3/8"
EFFN-03	Straight, NPT Female Connections	1/2" x 1/2"
EFFN-04	Straight, NPT Female Connections	3/4" x 3/4"
EFFN-05	Straight, NPT Female Connections	1" x 1"
EFFN-06	Straight, NPT Female Connections	1¼" x 1¼"
EFFN-07	Straight, NPT Female Connections	1½" x 1½"
EFFN-08	Straight, NPT Female Connections	2" x 2"
EFFN-09	Straight, NPT Female Connections	2½" x 2½"
EFFN-10	Straight, NPT Female Connections	3" x 3"

DQD 507 Rev. 2012-05-22



Certificate:	1087464	Master Contract: 248050
Project:	70060015	Date Issued: 2016-01-14

Trade Name: EFF

EFFN-11	Straight, NPT Female Connections	4" x 4"
EFFDN-01 EFFDN-02	Straight, NPT Female Connections Straight, NPT Female Connections	¹ / ₂ " X ¹ / ₂ " ³ / ₄ " X ³ / ₄ "
EFFDN-03	Straight, NPT Female Connections	1" x 1"

Reduced port, 125	psig and 175 psig ball valves;
GBV-038	Straight NPT Female Connections

GB V-038	Straight, NPT Female Connections	3/8" X 3/8"
GBV-01, GBVD-01	Straight, NPT Female Connections	1/2" x 1/2"
GBV-02, GBVD-02	Straight, NPT Female Connections	3/4" x 3/4"
GBV-03	Straight, NPT Female Connections	1" x 1"

Reduced port, one piece body 125 psig and 175 psig ball valves; Trade Name: EFF

GBV1P-01	Straight, NPT Female Connections	1/2" x 1/2"
GBV1P-02	Straight, NPT Female Connections	3/4" x 3/4"

- The 1/4", 3/8", 1/2", 3/4", 1", 11/4", 11/2" & 2" valves are certified for operation at ambient temperature range of -40°C to 65°C (-40°F to 149°F).
- The 2½", 3" & 4" valves are certified for operation at ambient temperature range of -20°C to 65°C (-4°F to 149°F).
- * 1/4" & 3/8" valves are certified for Canadian requirements only.

CLASS C3371 08 - VALVES (GAS)-General Use

CLASS C3371 12 - VALVES (GAS)-Manually Operated For Use on Piping

CLASS C3371 88 - VALVES (GAS)-General Use-Certified to U.S. Standards

CLASS C3371 92 - VALVES (GAS)-Manually Operated For Use in House-Piping Systems-Certified to U.S. Standards

Model Number Type Size (Inches) For use with Natural, Manufactured, Mixed, Liquefied Petroleum or Propane and LP Gas-Air mixtures;

Trade Name: EFF Regular/Full port, ½, 2 & 5 psig ball valves; EFFN-01 Straight, NPT Female Connections 1/4" x 1/4" EFFN-02 Straight, NPT Female Connections 3/8" x 3/8" EFFN-03 1/2" x 1/2" Straight, NPT Female Connections EFFN-04 Straight, NPT Female Connections 3/4" x 3/4" 1" x 1" EFFN-05 Straight, NPT Female Connections EFFN-06 Straight, NPT Female Connections 11/4" x 11/4" Straight, NPT Female Connections EFFN-07 1½" x 1½" Straight, NPT Female Connections 2" x 2" EFFN-08 1/2" X 1/2" EFFDN-01 Straight, NPT Female Connections EFFDN-02 Straight, NPT Female Connections 3/4" X 3/4" EFFDN-03 Straight, NPT Female Connections 1" x 1"



Certificate: 1087464		Master Contract: 24805
Project: 70060015		Date Issued: 2016-01-1
EFFC-01	Straight, CxC Connections	½" X ½"
EFFC-02	Straight, CxC Connections	³ / ₄ " x ³ / ₄ "
EFFC-03	Straight, CxC Connections	1" x 1"
EFFC-04	Straight, CxC Connections	1 ¹ / ₄ " x 1 ¹ / ₄ "
EFFC-05	Straight, CxC Connections	1 ½" x 1 ½"
EFFC-06	Straight, CxC Connections	2" x 2"
EFFDC-01	Straight, CxC Connections	½" X ½"
EFFDC-02	Straight, CxC Connections	³ / ₄ " x ³ / ₄ "
EFFDC-03	Straight, CxC Connections	1" x 1"
Regular/Full port, ½ psig	ball valves:	Trade Name: EFF
EFFN-09	Straight, NPT Female Connections	2½" x 2½"
EFFN-10	Straight, NPT Female Connections	3" x 3"
EFFN-11	Straight, NPT Female Connections	4" x 4"
EFFC-07	Straight, CxC Connections	2 ½" x 2 ½"
EFFC-08	Straight, CxC Connections	3" x 3"
EFFC-09	Straight, CxC Connections	4" x 4"
Reduced port, ½, 2 & 5 p	sig hall valves:	Trade Name: EFF
GBV-038	Straight, NPT Female Connections	3/8" x 3/8"
GBV-01, GBVD-01	Straight, NPT Female Connections	1/2" x 1/2"
GBV-02, GBVD-02	Straight, NPT Female Connections	3/4" x 3/4"
GBV-03	Straight, NPT Female Connections	1" x 1"
Regular/Standard port, ¹ /	2. 2 & 5 psig hall valves:	TradeName: EFF
FIBV-00	Straight, NPT Female x Flare End Connections	1/2" x 3/8" fl
FIBV-01	Straight, NPT Female x Flare End Connections	3/8" x 3/8" fl
FIBV-02	Straight, NPT Female x Flare End Connections	1/2" x 3/8" fl
FIBV-03	Straight, NPT Female x Flare End Connections	1/2" x 1/2" fl
FIBV-04	Straight, NPT Female x Flare End Connections	1/2" x 5/8" fl
FIBV-05	Straight, NPT Female x Flare End Connections	3/4" x 1/2" fl
FIBV-06	Straight, NPT Female x Flare End Connections	3/4" x 5/8" fl
FIBV-07	Straight, NPT Female x Flare End Connections	3/4" x 5/8" fl
FIBV-08	Straight, NPT Female x Flare End Connections	1/2" x 5/8" fl
Regular/Standard port, ¹ /	∕₂ 2 & 5 nsig hall valves•	Trade Name: EFF
FFBV-01	Straight, Flare End Connections	3/8" fl x 3/8" fl
FFBV-02	Straight, Flare End Connections Straight, Flare End Connections	1/2" fl x 1/2" fl
FFBV-03	Straight, Flare End Connections Straight, Flare End Connections	5/8" fl x 5/8" fl
FFBV-04	Straight, Flare End Connections Straight, Flare End Connections	5/8" fl x 5/8" fl
Regular/Standard port, ¹ /	2, 2 & 5 psig ball valves:	Trade Name: EFF
FMBV-01	Straight, NPT Male x Flare End Connections	1/2" x 3/8" fl
FMBV-02	Straight, NPT Male x Flare End Connections	1/2" x 1/2" fl



 Certificate:
 1087464
 Master Contract:
 248050

 Project:
 70060015
 Date Issued:
 2016-01-14

Full port, ½, 2 & 5 psig ball valves;		Trade Name: EFF
FIFBV-01	Straight, NPT Female x Flare End Connections	3/8" x 3/8" fl
FIFBV-02	Straight, NPT Female x Flare End Connections	1/2" x 3/8" fl
FIFBV-03	Straight, NPT Female x Flare End Connections	1/2" x 1/2" fl
FIFBV-04	Straight, NPT Female x Flare End Connections	1/2" x 5/8" fl
FIFBV-05	Straight, NPT Female x Flare End Connections	3/4" x 1/2" fl

- The EFF (1/4" thru 2"), GBV, FIBV, FFBV, FMBV & FIFBV series models are certified for operation at ambient temperature range of -40°C to 65°C (-40°F to 149°F).
- The EFF, 2½", 3" & 4" valves are certified for operation at ambient temperature range of -20°C to 65°C (-4°F to 149°F).
- The maximum ambient temperature for the 2 & 5 psig valve is 52°C (149°F).

CLASS C3371 01 - VALVES (GAS)-Appliance Connector CLASS C3371 81 - VALVES (GAS)-Appliance Connector-Certified to U.S. Standards

Model Number Type Size (Inches) For use with Natural, Manufactured, Mixed, Liquefied Petroleum or Propane and LP Gas-Air mixtures;

Regular/Standard port, ½, 2 & 5 psig ball valves;		Trade Name: EFF
FIBV-00	Straight, NPT Female x Flare End Connections	1/2" x 3/8" f1
FIBV-01	Straight, NPT Female x Flare End Connections	3/8" x 3/8" fl
FIBV-02	Straight, NPT Female x Flare End Connections	1/2" x 3/8" fl
FIBV-03	Straight, NPT Female x Flare End Connections	1/2" x 1/2" fl
FIBV-04	Straight, NPT Female x Flare End Connections	1/2" x 5/8" fl
FIBV-05	Straight, NPT Female x Flare End Connections	3/4" x 1/2" f1
FIBV-06	Straight, NPT Female x Flare End Connections	3/4" x 5/8" fl
FIBV-07	Straight, NPT Female x Flare End Connections	3/4" x 5/8" fl
FIBV-08	Straight, NPT Female x Flare End Connections	1/2" x 5/8" fl

Regular/Standard port, ½, 2 & 5 psig ball valves;Trade Name:EFFFMBV-01Straight, NPT Male x Flare End Connections1/2" x 3/8" fl

FMBV-02 Straight, NPT Male x Flare End Connections 1/2 x 3/6 II

1/2 x 3/6 II

1/2 x 1/2 II

Full port, ½, 2 & 5 psig ball valves;		Trade Name: EFF
FIFBV-01	Straight, NPT Female x Flare End Connections	3/8" x 3/8" fl
FIFBV-02	Straight, NPT Female x Flare End Connections	1/2" x 3/8" fl
FIFBV-03	Straight, NPT Female x Flare End Connections	1/2" x 1/2" fl
FIFBV-04	Straight, NPT Female x Flare End Connections	1/2" x 5/8" fl
FIFBV-05	Straight, NPT Female x Flare End Connections	3/4" x 1/2" fl

- The FIBV, FMBV & FIFBV series models are certified for operation at ambient temperature range of -40°C to 65°C (-40°F to 149°F).
- The maximum ambient temperature for the 2 & 5 psig valve is 52°C (149°F).



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APPLICABLE REQUIREMENTS

For 1/2 psig valves:

ANSI Z21.15-2009 / CSA 9.1-2009 Manually Operated Gas Valves For Appliances, Appliance Connector

R(2014) Valves And Hose End Valves

For 2& 5 psig valves:

CGA Requirement CR91-002 Manually Operated Gas Valves For Use On Piping

ASME B16.44-2012 Manually Operated Metallic Gas Valves For Use In Aboveground Piping

Systems Up To 5 Psig

For 125 psig valves:

CAN/CGA-3.16-M88 (R2009) Lever Operated Non-Lubricated Gas Shut-Off Valves.

ASME B16.33-2012 Manually Operated Metallic Gas Valves For Use In Gas Piping Systems

up to 125 psig. (1/2" thru 2").

ASME B16.38-2012 Manually Operated Metallic Gas Valves For Use In Gas Piping Systems

up to 125 psig. (2½" thru 12").

For 175 psig valves:

Interim Requirement No. 60 Lever Operated Gas Shut-Off Valves



Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
70060015	2016-01-14	Addition of models FFBV-04, FIBV-00, FIBV-06, FIBV-07, and FIBV-08
2533660	2012-08-07	Add standard IR 60 to certification. This was never added and should have been. This supports the 175 psi pressure rating on previous reports.
2507745	2012-05-22	Transfer listed models and to new master contract and revise model numbers.
2111144	2009-03-06	Update to report 1087464 to add new models GBVD-01 & GBVD-02 with pressure tap
1898266	2007-03-30	Update Report and Certification Record to Fix Model Number/Size Errors on GBV-038 & FFBV-02
1571429	2005-02-07	Evaluation to compliance with ASME B16.33 & ASME B16.44
1476792	2003-11-13	Certification of Gas Valves, models GBV1P(01,02)
1432588	2003-07-28	Certification of 3/8" and address change