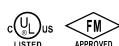


Flanged Resilient NRS Gate Valve (Z45X), UL/FM Approved

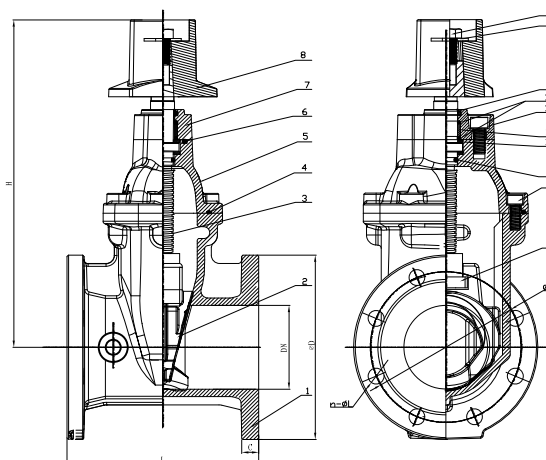
NSF/ANSI 61 NSF/ANSI 372
OC3073.7



Z45X



- Connection Ends: Flange to ASME B16.1 CL 125
- Working Pressure: 300PSI
200PSI and 250PSI available upon request
- Temperature Range: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Resilient Wedge Disc	ASTM A536, 65-45-12+EPDM	
3	Stem	Stainless Steel	AISI 304, AISI 316
4	Bonnet Gasket	EPDM	NBR
5	Bonnet	ASTM A536, 65-45-12	
6	O-Ring	NBR	EPDM
7	Gland	ASTM A536, 65-45-12	
8	Stem Cap	ASTM A536, 65-45-12	Pressed Steel
9	Bolt	AISI 304	AISI 316
10	Flat Washer	AISI 304	AISI 316
11	Ring Wiper	EPDM	NBR
12	O-Ring	NBR	EPDM
13	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
14	Axis Guide	Brass HPb59-1	
15	Washer	Brass HPb59-1	
16	O-Ring	NBR	EPDM
17	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
18	Wedge Nut	Brass HPb59-1	Bronze ZQSn5-5-5

Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.
Size 2"-5" with 1pc of 1/2" bronze NPT tapping plug, size 6"-12 with 1pc of 3/4" bronze NPT tapping plug.

DN		Dimensions(mm)						
Inch	mm	L	H(Z45X)	H(Z45XC)	D	D1	C	n-ΦL
2"	50	178	254	278	152	120.7	16.0	4-Ø19.1
2.5"	65	190	275	300	178	139.7	17.5	4-Ø19.1
3"	80	203	301	321	191	152.4	19.1	4-Ø19.1
4"	100	229	355	375	229	190.5	19.1	8-Ø19.1
5"	125	254	393	415	254	215.9	19.1	8-Ø22.2
6"	150	267	448	455	279	241.3	19.1	8-Ø22.2
8"	200	292	548	565	343	298.5	22.2	8-Ø22.2
10"	250	330	626	636	406	362.0	23.8	12-Ø25.4
12"	300	356	722	731	483	431.8	25.4	12-Ø25.4
14"	350	381	918	928	533	476.3	25.4	12-Ø28.6
16"	400	406	918	928	597	539.8	25.4	16-Ø28.6
18"	450	432	1108	1165	635	577.9	25.4	16-Ø31.8
20"	500	457	1130	1188	699	635	28.6	20-Ø31.8
24"	600	508	1321	1364	813	749.3	30.1	20-Ø34.9

CERTIFICATE OF COMPLIANCE

Certificate Number EX15973
Report Reference EX15973-2013-06-27
Date 2022-July-06

Issued to: JINAN MEIDE CASTING CO LTD
Meide Science and Technology Park
Pingyin Industrial Park
JINAN SHANDONG 250400 CN

This is to certify that GATE VALVES
representative samples of See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

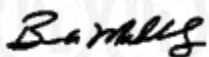
Standard(s) for Safety: UL 262 Standard for Gate Valves for Fire-Protection Service
ULC/ORD C262-92 Standard for Gate-Valves for Fire-Protection Service

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number EX15973
Report Reference EX15973-2013-06-27
Date 2022-July-06

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Gate Valve

Model

Z41X-300, Z41X-250, Z41X-200, Z41X-PN16-300, Z41X-PN16-250, Z41X-PN16-200, Z45X-363, Z45X83R-363, Z45X-300, Z45X-250, Z45X-200, Z45X-PN16-300, Z45X-PN16-250, Z45X-PN16-200, Z45X-1-PN25, Z81X-300, Z81X-250, Z81X-200, Z81X-PN16-300, Z81X-PN16-250, Z81X-PN16-200, Z85X-300, Z85X-250, Z85X-200, Z85X-PN16-300, Z85X-PN16-250, Z85X-PN16-200, Z51X-300, Z51X-250, Z51X-200, Z51X-PN16-300, Z51X-PN16-250, Z51X-PN16-200, Z55X-300, Z55X-250, Z55X-200, Z55X-PN16-300, Z55X-PN16-250, Z55X-PN16-200,

F, Flange

G, Groove

Model

Z31X-300, Z31X-250, Z31X-200, XZ81X-300, XZ81X-250, XZ81X-200, XZ81X-PN16, XZ41X-PN16-300, XZ41X-PN16-250, XZ41X-PN16, XZ41X-PN10, Z41X-PN16, Z41X-PN10, Z41X-F4-PN16, Z41X-F4-PN10, XZ41X-F4-PN16, XZ41X-F4-PN10, XZ41X-363, XZ41X83R-363, XZ41X-300, XZ41X-250, XZ41X-200, Z35X-300, Z35X-250, Z35X-200, Z35XC-300, Z35XC-250, Z35XC-200, Z35XC-2-300, Z35XC-2-250, Z35XC-2-200, Z85XC-2-300, Z85XC-2-250, Z85XC-2-200, Z45X-1-F4-PN16, Z45X-1-F4-PN10, Z45X-1-PN16, Z45X-1-PN10, Z45X-1-PN16-300, Z45X-1-PN16-250, Z45XC-F4-PN16, Z45XC-F4-PN10, Z45XC-PN16, Z45XC-PN10, Z45XC-PN16-300, Z45XC-PN16-250, Z45XC-300, Z45XC-250, Z45XC-200, Z45XC-2-363, Z45XC83R-2-363, Z45XC-2-300, Z45XC-2-250, Z45XC-2-200, Z45XC-2-PN16-300, Z45XC-2-PN16-250, Z45XC-2-PN16, Z45XC-2-PN10, Z45XC-2-F4-PN16, Z45XC-2-F4-PN10, Z45X-PN16, Z45X-PN10, Z45X-F4-PN16, Z45X-F4-PN10,

Note:

OS&Y – Outside Stem and Yoke, NRS – Non-rising Stem

ANSI Flange complies with ANSI B16.1 Class125; has alternative construction with EN1092-2, PN16/PN10 bolt hole.

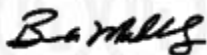
Groove complies with AWWA C606.

BS Flange complies with EN1092-2 PN16.

DIN Flange complies with DIN EN1092-2 PN16.

Z35X, Gate valve without flange plate; Z35XC, Gate valve with flange plate;

Z85XC, Gate valve with flange plate; Z45XC, Gate valve with flange plate;



Bruce Mahrenholz, Director North American Certification Program

UL LLC



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CERTIFICATE OF COMPLIANCE

Certificate Number EX15973
Report Reference EX15973-2013-06-27
Date 2022-July-06

Model
Z01X, , , Z05X, , , Z05XC, , , Z05XC-2,

Note:

F-Flange

MJ- Mechanical joint

Model Z05X is operated by handwheel; Model Z05XC and Z05XC-2 is operated by wrench nut.

Model Z05XC-2 is assembled with indicator post plate.

Model
XZ01X, , , XZ31X, , , XZ51X,

Note:

F-Flange

G, Grooved

MJ- Mechanical joint

Model XZ01X, XZ31X and XZ51X are operated by handwheel.

Gate Valve

Model
XZ41X-250, XZ41X-200, XZ41X-175, XZ41X-PN16, XZ41X-PN10, Z45X-250, Z45X-200, Z45X-175,
Z45XC-250, Z45XC-200, Z45XC-175, Z45X-PN16, Z45X-PN10, Z45XC-PN16, Z45XC-PN10,

Model

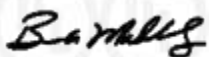
Z45XC-2-250, Z45XC-2-200, Z45XC-2-175, Z45XC-2-PN16, Z45XC-2-PN10,

Note:

OS&Y – Outside Stem and Yoke, NRS – Non-rising Stem

ANSI Flange comply with ANSI B16.1 CLASS125

BS Flange comply with EN1092-2 PN10/PN16



Bruce Mahrenholz, Director North American Certification Program

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Certificate of Compliance

This certificate is issued for the following:

**OS&Y Type Gate Valves
Model Z31X, Z41X, XZ41X and XZ81X Series
and**

**NRS Type Gate Valves
Model Z35X, Z35XC-2, Z45X, Z45XC-2, XZ45X
and Z85XC-2 Series**

Sizes 2, 2-1/2, 3, 4, 6, 8, 10 and 12 inch NPS

Prepared for:

Jinan Meide Casting Co Ltd
No 3 Nanmen Rd
Pingyin Jinan, 250400
China

Manufactured at:

Jinan Meide Casting Co Ltd
No 3 Nanmen Rd
Pingyin Jinan, 250400
China

FM Approvals Class: 1120/1130

Approval Identification: 0003051606

Approval Granted: March 5, 2015

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in black ink, appearing to read 'Richard B. Dunne', is written over a horizontal line.

Richard B. Dunne
Manager of Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062



Member of the FM Global Group



Certificate of Compliance

This certificate is issued for the following:

Fire Service Water Control Valves

**Model XZ41X Outside Screw & Yoke Type (OS&Y) and
Model Z45X Non-Rising Stem Type (NRS)**

Sizes 14, 16, 18, 20 and 24 inch NPS

Prepared for:

**Jinan Meide Casting Co., Ltd.
No. 3 Nanmen Rd
Pingyin, Jinan 250400
China**

Manufactured at:

**Jinan Meide Casting Co., Ltd.
No. 3 Nanmen Rd
Pingyin, Jinan 250400
China**

FM Approvals Standard 1120, 1130: Fire Service Water Control Valves
(OS&Y and NRS Type Gate Valves), dated April 1997

Approval Identification: 0003059094

Approval Granted: April 7, 2017

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in black ink, reading 'D B. Fuller'.

David B. Fuller
AVP, Manager - Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062 USA

