

SIZE			D4 ()	D0 /)	D ()	<i>5</i> /
In	mm	L (mm)	D1 (mm)	D2 (mm)	B (mm)	C (mm)
2"	60	171±1	57.15 _{-0.38}	60.3 ^{+0.61}	7.93 ^{+0.79}	15.88±0.79
2.5"	73	184±1	$69.09_{-0.46}^{\ 0}$	73 ^{+0.74}	7.93 ^{+0.79}	15.88±0.79
3"	89	197±1	84.94_0.46	88.9 ^{+0.89}	7.93 ^{+0.79}	15.88±0.79
4"	114	206±1	110.08_0_0	114.3 ^{+1.14}	9.53 ^{+0.79}	15.88±0.79
5"	141	247.65±1	137.03_0	141.3 ^{+1.42}	9.53 ^{+0.79}	15.88±0.79
6"	168	324±1	163.96 _{-0.56}	168.3 ^{+1.57}	9.53 ^{+0.79}	15.88±0.79
8"	219	370.84±1.5	214.4_0.64	219.1 ^{+1.57}	11.13 ^{+0.79}	19.05±0.79
10"	273	457.2±1.5	268.28_0	273 ^{+1.57} _{-0.79}	12.7 ^{+0.79}	19.05±0.79
12"	324	534.9±1.5	318.29_0.76	323.9 ^{+1.57}	12.7 ^{+0.79}	19.05±0.79

- 1. Connection Ends:Groove to AWWA C606;
- 2. Working pressure:200PSI/250PSI/300PSI available upon request;
- 3. Temperature Range:0°C-80°C;
- 4. Coating:Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request.

9	Bushing	ASTM B62 C83600		
8	Plug	Malleable Iron Galvanized		
7	Seat	ASTM B62 C83600		
6	Seal Ring	EPDM		
5	Disc	Ductile Iron 65-45-12or Stainless Steel 304		
4	Spring Washer	Stainless Steel 304		
3	Spring	Stainless Steel 304		
2	Hinge Pin	Stainless Steel 420		
1	Valve Body	Ductile Iron 65-45-12		
Part No.	Part&size	MATERIAL		

DATE	REVISION	BY	MATERIAL:	DRAWN BY Wu Xiuting	DRAWING# 901H84X-46-0-E	TITLE FIG# H84X Grooved Resilient Swing Check Valve	
				CHECKED BY	APPROVED BY	,	
			FINISH:	Zhao Xian	Wang Shixin	JINAN MEIDE CASTING	
				SCALE	ISSUE DATE 15-11-28	CO.,LTD.	REV.0

CERTIFICATE OF COMPLIANCE

 Certificate Number
 20140819-EX16203

 Report Reference
 EX16203-20131015

 Issue Date
 2014-AUGUST-19

Issued to: JINAN MEIDE CASTING CO LTD

3 NANMEN RD

PINGYIN JINAN

SHANDONG 250400 CHINA

This is to certify that CHECK VALVES representative samples of See Addendum

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 312, Standard for Check Valves for Fire Protection

Service

ULC/ORD-C312, Standard for Check Valves for Fire

Protection Service

Additional Information: See the UL Online Certifications Directory at

www.ul.com/database for additional information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers: ^QUs the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.

William R. Carney, Director, North American Certification Programs

UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number 20140819-EX16203

Report Reference EX16203-20131015

Issue Date 2014-AUGUST-19

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

H44X2-300, H44X2-16, H44X2-200, H84X-300, H84X-250, H84X-200, H84X-PN16, H84X-PN10

Note: All models have same construction, except H44X2-300/200 and H44X2-16 have different flange type. The check valves are intended for installation in both the horizontal and vertical positions. Model H84X series have same construction except rated pressure.

William R. Carney, Director, North American Certification Program

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contactus





Certificate of Compliance

This certificate is issued for the following:

Swing Check Valves

Models H44X-300, H44X-200 and H44X-PN16 Sizes 2, 2-1/2, 3, 4, 6, 8, 10 and 12 inch NPS

Manufactured at:

China

Prepared for:

China

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

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

FM Approvals Class: 1210

Approval Identification: 0003047838 Approval Granted: July 23, 2013

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.

FM Approvals°

Member of the FM Global Group

Richard B. Dunne

Group Manager - Fire Protection

FM Approvals

1151 Boston-Providence Turnpike

Norwood, MA 02062

Installation & Maintenance Instruction for Flanged Resilient Swing Check Valve

Issued 27th, Oct., 2014

Jinan Meide Casting Co., Ltd.



























. General Introduction

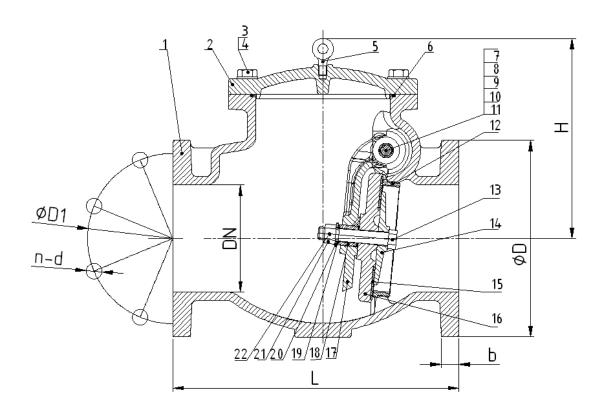
Thank you for choosing our check valve products. Check valve as one of the pressure equipment may lead to huge damage because of excessive pressure and leakage. The instruction should be read before using the valves for customers.

II. Property Specifications

Design Standard	ANSI/AWWA C508-09	
Face to Face	ANSI/AWWA C508-09 (except 10")	
Valves Test	API598	
Connection Ends	ASME B16.1 Class125	
Rated Working Pressure	200PSI/250PSI/300PSI	
Working Temperature	0~80℃	
Coating	Fusion Bonded Epoxy Coating in	
	accordance with ANSI/AWWA C550	
Certification	UL/FM	

III. Structure Design & Working Principle

For the structure of flanged resilient swing check valve, pls see Figure 1. For the dimensions, pls see the Table 1.



地址:中国济南市平阴县城南门路3号 250400 电话(Tel): 008653187879384 ADDRESS:No. 3 Nanmen Road, Pingyin, Jinan, China 250400 传真(Fax): 008653187879387

























Figure 1-- Structure

INCH	ММ	L (mm)	D (mm)	D1 (mm)	b (mm)	H (mm)	n-фd
2"	50	203	152	120.5	16	133	4-Ф19.1
2-1/2"	65	254	178	139.5	17.5	150	4-Ф19.1
3"	80	278	191	152.5	19	243	4-Ф19.1
4"	100	330	229	190.5	24	284	8-Ф19.1
6"	150	406	279	241.5	25.5	290	8-Ф22.2
8"	200	495	343	298.5	28.5	330	8-Ф22.2
10"	250	622	406	362	30.5	350	12-Ф25.4
12"	300	660	483	432	32	376	12-Ф25.4

Table 1—Dimensions

IV. Material Construction of Major Components:

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Bonnet	ASTM A536, 65-45-12	
3	Eye Bolt	Carton Steel Zinc Planted	
4	O-Ring	NBR	EPDM
5	Hinge Pin	AISI 304	
6	Hinge Bushing	Brass ASTM B16 C36000/Hpb63-3	
7	Seat Ring	Bronze ASTM B62	AISI 304, AISI 316
		C86300/ZQSin5-5-5(Presses Fit)	Pressed Fit or Threaded
8	Disc Seat Bolt	AISI 304	
9	Retainer Washer	Bronze ASTM B62	
		C86300/ZQSin5-5-5	
10	Disc Sealing Ring	EPDM	AISI 304, AISI 316,
			Bronze ASTM B62
11	Disc	ASTM A536, 65-45-12	
12	Clapper Arm	ASTM A536, 65-45-12	
13	Stud Bushing	Brass ASTM B16 C36000/Hpb63-3	
14	O-Ring	NBR	EPDM
15	Nut	AISI 304	AISI 316

V. Working principle:

地址:中国济南市平阴县城南门路3号 250400 电话(Tel): 008653187879384

























Check valves serve to prevent the backflow of medium in the piping system for protection of important equipment, widely used in the field of potable water, water supply and drainage, sewage disposal, irrigation, air conditioning, for protection as well as chemical and energy industry.

VI. Tansportation

- a) The valves should not be damaged during the transit. Before transportation, rope, lift and transportation should be ready. Check the package of valves. Valves should be repacked, if there are damages on the package.
- b) Valves should be lifted lightly with ropes tied hardly in the rings.
- c) Valves should not dragged on the ground or moved with the faces on ground to keep the surface, metal plates and sealing surface from damaging.
- d) Valves should not be unpacked if they are to be installed. Valves should be placed in a safe place, and make good waterproof, dustproof work.

VII. Storage

- a) The valve is to be stored in dry cool conditions in the warehouses with good ventilation.
- b) The waterway and ends of the valves are to keep sealed.

VIII. Installation

- a) Valve should be carefully checked whether the valve symbol meet the use requirement before installation and whether the flow direction of medium consistent with flow arrow symbol marked on valve body
- b) If there is a fluctuating source in the pipeline, valve should be installed far away from it.
- c) Before installation waterway and sealing surface should be checked. If there is any dirt, clean that with soft cloth.
- d) If the connection ends is flanged, end, stud, nuts and washers should be chosen appropriately according to the using temperature, working pressure, working medium. Tighten screw and nuts and keep them balanced. The specifications of the stud and nut should comply with the requirements of flange standard ASME B16.1 CLASS125.

IX. Maintenance

- a) Should not a person beat, stand on the working valve.
- b) Finish using, valves should be checked regularly:
 - 1) Check valve seat sealing and the abrasion of the disc seats;
 - 2) Check the body corrosion.
- c) If the above situation is discovered, valves should be repaired or replaced in time. We suggest maintain the valves every three months or in accordance with local rules and regulations.
- d) After maintenance, valves should be tested for shell strength and sealing according to standard API598
- e) O-rings, bolts, nuts and gaskets of same size and material same as the original ones should

























be used in maintenance. These parts can be ordered as spares for replacement.

- f) Should not open the valve cover or take replacement of bolts and nuts when valve is under pressure.
- g) After parts replacement, press test should be made. After testing, the valves can be used.
- h) The maintenance can be done by users, but after repair tests shall be carried out according to standard. Then the valves are qualified to use.
- i) Valve internal parts should be replaced rather than repaired in maintenance. Should the parts supplied by manufacturers are be used, if damage occurs due to the use of other parts not supplied by manufactures and the manufacturer do not assume responsibility.
- i) Parts under pressure are not recommended to be repaired rather than replaced timely when safety defects are found after a long time usage.
- k) Welding the working valves is not allowed.

X. Common Problems and Proposed Solutions

Possible Problems	Possible Causes	Proposed Solutions	
	The seal face with sundries	Clear away the sundries	
Leakage through the sealing surface	Sealing surface damage	Change the wedge	
	Seal ring damage	Seal ring damage	
	Clapper arm crooked	Stop the medium, remove the	
Valves blocked	Joint wearing out	valve and repair or replace the	
	Arm distorted or broken	parts	
	The water hammer broken	In the early fatigue defects, valve	
	valve	used beyond life expectancy	
Damage of valve body and	Fatigue damage	should be replaced	
bonnet		water medium should be ruled	
	Frost crack	out in the winter when the valves	
		are not used	
T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Bolts and nuts are not fully or	Tighton the helts numberly	
Leakage through the jointing	evenly tightened	Tighten the bolts properly	
of valve body and bonnet	eal ring damage	Change the seal ring	

XI. Quality assurance

- a) The valve quality is guaranteed for 18 months since valves are shipped out of factory. Manufacturer is responsible for the material defects and quality issue happens in normal operation and using conditions and not for the improper installation, maintenance, and modification.
- b) When quality problems are found, should inform manufacturers, manufacturers maintain the rights of investigating these issues.
- c) What should the manufacturers ensure are limited to the following conditions:
 - material repair costs
 - replacing parts and material cost

























- to compensate users purchasing cost
- d) Manufacturer is not liable of the damages caused by unexpected natural disasters such as earthquake, typhoon, etc. beyond the valve itself defects.
- e) Beyond the limits of other guarantee, agreed by the user and the manufacturer.

XII. Service

- a) If stipulated in the contract, the factory can provide on-site installation and debugging.
- b) Quality tracking should be provided by the manufacturer and other services should also be offered according to customers' requirements.

