



INSPECTION REPORT



For professionals who wants more.

Product: Knife Gate Valves

P.O. REF.NR: HKC21605

Quantity: SECTOR B

Service Type: PRE-SHIPMENT INSPECTION

INSPECTION DATE: May 15th, 2021







A. INSPECTION RESULT SUMMARY

	PASS	FAIL	PENDING	NOT APPLICABLE	REMARKS
PRODUCT TYPE	Х				1
WORKMANSHIP	Х				
ON-SITE TESTS	Х				
MARKING OF PRODUCTS	Х				3
MEASUREMENT	Х				
PACKING & ASSORTMENT	Х				1
OVERALL RESULT	PASS			See remark 4*	

Remark: *

Production status as below:

				<u> </u>	
Product name	Product name	PN	DN	Quantity	
		10/16	50	40	Completed assembly
			65	25	Completed assembly
	KNIFE GATE VALVE,		80	40	Inspected 14-5-2021
	WAFER type		100	50	Inspected 14-5-2021
KNIFE GATE			125	20	Inspected 14-5-2021
VALVE,			150	30	Product packing into wooden box
WAFER type			200	40	Product packing into wooden box
		10/16	250	30	Product packing into wooden box
	10		300	25	Completed assembly
			350	20	Completed assembly
			400	25	Factory finished assembly 1pc
			50	20	Completed assembly
			65	10	Completed assembly
	10/16		80	20	Inspected 14-5-2021
	10, 10	10, 10	100	20	Inspected 14-5-2021
KNIFE GATE			125	10	Inspected 14-5-2021
VALVE,			150	15	Product packing into wooden box
WAFER type			200	10	Product packing into wooden box
			250	20	Product packing into wooden box
	10	10	300	10	Completed assembly
			350	5	Completed assembly
			400	10	Completed assembly

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A.1. Finish packing





A.2. For DN80 and DN 100 / DN125
Factory finished fit, but no clean it, so dirty mark on product -100%.









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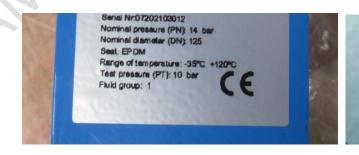








A.3. For DN 100
Poor printing on label -100%.



Serial Nr:07202103012
Nominal pressure (PN): 14 bar
Nominal diameter (DN): 125
Seet: EPDM
Range of temperature: -35°C +120°C
Test pressure (PT): 10 bar
Fluid group: 1

B. PRODUCTS INFORMATION & SAMPLING PLAN:

0005	CHANTITY	SAMPLING SIZE			
CODE	QUANTITY	Visual	Size	Pressure	
KNIFE GATE VALVE, WAFER type-DN50	40	5	1	1	
KNIFE GATE VALVE, WAFER type-DN60	25	5	1	1	
KNIFE GATE VALVE, WAFER type-DN80	40	5	1	1	
KNIFE GATE VALVE, WAFER type-DN100	50	5	1	1	
KNIFE GATE VALVE, WAFER type-DN125	20	5	1	1	
KNIFE GATE VALVE, WAFER type-DN150	30	5	1	1	
KNIFE GATE VALVE, WAFER type-DN200	40	5	1	1	
KNIFE GATE VALVE, WAFER type-DN250	30	5	1	1	
KNIFE GATE VALVE, WAFER type-DN300	25	5	1	1	
KNIFE GATE VALVE, WAFER type-DN350	20	5	1	1	
KNIFE GATE VALVE, WAFER type-DN400	25	5		1	
KNIFE GATE VALVE, WAFER type-DN50	20	5		1	
KNIFE GATE VALVE, WAFER type-DN60	10	3	1	1	
KNIFE GATE VALVE, WAFER type-DN100	20	5	1	1	
KNIFE GATE VALVE, WAFER type-DN125	10	5	1	1	
KNIFE GATE VALVE, WAFER type-DN150	15	3	1	1	
KNIFE GATE VALVE, WAFER type-DN200	10	3	1	1	
KNIFE GATE VALVE, WAFER type-DN250	20	5	1	1	
KNIFE GATE VALVE, WAFER type-DN300	10	2	1	1	
KNIFE GATE VALVE, WAFER type-DN350	5	1	1	1	
KNIFE GATE VALVE, WAFER type-DN400	10	2	1	1	
	335	89	21	21	

Inspection Standard:	ANSI/ASQ Z1.4 (formerly known as MIL-STD-105)				
Inspection Level – Workmanship / Visual:	N/A	AQL - Critical Defectives:	/		
Sample Size – Workmanship / Visual:	89pcs	AQL - Major Defectives:	/		
		AQL - Minor Defectives:	/		

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C. INSPECTION CRITERIA

C.1. VISUAL INSPECTION

Sample size:

According to ANSI/ASQC Z1.4 general inspection level III:

Total 89 samples

C.2. DIMENSIONAL INSPECTION

Sample size:

Total 21samples 1pcs/item according client's claim.

C.3. PRESSURE TEST

Testing following ISO 5208.

C.3.1. Obturator test:

Pressure test was performed by factory staff under the guidance of inspector, the rated pressure for each item tested is 1.2 Mpa (Pressure = 1,1 x PN , PN=1.6MPa(16bar)), the pressure will be increased gradually from 0 to 1.2 Mpa, when it reached 1.2 Mpa, it will keep $0.15\sim2$ minutes(30s for DN80 ~125), The test shall show no leakage through the metal, pressure containing joints, or stem seals;

C.3.2. Shell test:

Pressure test was performed by factory staff under the guidance of inspector, the rated pressure for each item tested is 2.4 Mpa (Pressure = 1,5 x PN , PN=1.6MPa(16bar)), the pressure will be increased gradually from 0 to 2.4 Mpa, when it reached 2.4 Mpa, it will keep $0.15\sim3$ minutes(15s for DN50,60s for DN65 ~60 180s for more than DN250), The test shall show no leakage through the metal, pressure containing joints, or stem seals;

C.4. PAINTING TEST (3 pcs):

This painting test was by a hammer

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D. WORKMANSHIP DEFECTIVES











As all sample no clean, so dirty mark on product -100%.

E. MEASUREMENT:

During the inspection:

9 samples were provided by mill for the test under the witness of PTS inspector, details were as follows:

Actual Findings: Most of the points of the paint coat inspected thickness: 140-727um.

Dimensional: length of valve, valve thickness, painting thickness and center distance see below chart.

Results:

DN	L	D	D1	D2	D0	H1
50	50.4	162.6	122.2	100.7	179.6	272
65	50.5	183.5	142	120.2	198	295
80	51.6	198	156	132	218.6	335
100	52.2	228.4	180.6	158	239.9	370
125	58.2	256.8	211.6	188.7	256.5	415
150	58	288	240	212	280	465
200	71	345	292	267	299	568
300	76	484	408	378.5	341.5	780
350	76	515	460	433	398	855
400	400 85 600		507	480	445	930

Drawing product:

(Blind threaded) (Tapping through)

11 9 65 48 185 145 118 200 4-M16 12 2 2 0 18 80 51 200 160 132 200 3-M16 12 2 6 018 100 57 250 210 180 156 240 8-M16 12 2 6 018 125 57 250 210 184 260 8-M16 12 2 6 018 125 57 250 210 184 260 8-M16 12 2 6 018 150 57 285 240 211 280 8-M20 14 2 6 023 150 57 285 240 211 280 8-M20 14 2 6 023 150 250 70 396 350 319 320 12-M20 16 2 6 023 150 250 70 396 350 319 320 12-M20 16 4 8 023 150 250 70 396 350 319 320 12-M20 16 4 8 023 150 250 70 396 350 350 12-M20 16 4 8 023 150 250 70 396 350 350 12-M20 16 4 8 023 150 250 70 396 350 350 12-M20 16 4 8 023 150 250 70 396 350 350 12-M20 16 4 8 023 150 250 150 250 150 250 150 250 250 70 396 350 350 12-M20 16 4 8 023 150 250 250 70 396 350 350 12-M20 16 4 8 023 150 250 250 70 396 350 350 12-M20 16 4 8 023 150 250 250 70 396 350 450 429 400 16-M20 18 8 8 023 150 250 250 70 350 150 250 250 70 350 150 250 250 250 70 350 250 250 70 350 250 250 70 350 250 250 250 70 350 250 250 250 250 250 250 250 250 250 2		mig product								
2 Sealing Ring BTOM 8 Stem 20:13/58420) Bolts/Nuts A2:70 3 Disc SSSO() 9 Nat Brass (Face to face): 5 Facking FIFE 10 Yoke head HIZDO DO 12 13 Disc SSSO() 13 Sealing Fife SSSO() 11 Bearing Sealing Seal	No.	Spare Parts	Material	6	Packing Gland		12	Handwheel	GGG40	(2)
Second S	1	Body	GGG40		Yoke	Q235(Cr. D)	13	Cap		(Note): 1、Design): JB/T8691-2013
4 Outde Pad PTFE 10 Voke head 17300 5 Facking PTFE(FM) 11 Bearing CCr15 DO 12 13 DV(m) L D D1 D2 D0 N-Th T 0 D4	2	Sealing Ring	EPDM			2Cr13(SS420)		Bolts/Nuts	A2-70	
S Facking Pipe (EPRO) 11 Bearing GCr15	3									(Face to face):
Section Pipe (BPD0) 11 Bearing CCr15										GB/T15188 2-94 chart6-7
DO 12 13 DX(m) L D DI D2 D0 N-Th T D D0	5	Packing	PTFE (EPDM)	11	Bearing	GCr15				
Knife Gate Valve		N-Th 螺深 (Depth)	DI			11 10		8 7 6 5 4 II	2	50



















































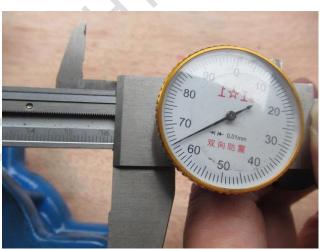


DN50 BEFORE WASHING LINE













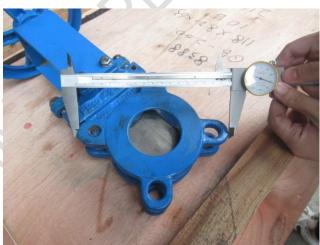


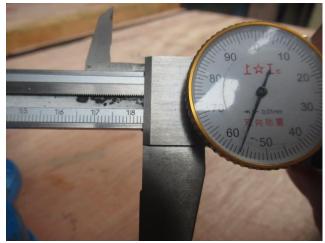


DN65 BEFORE WASHING LINE

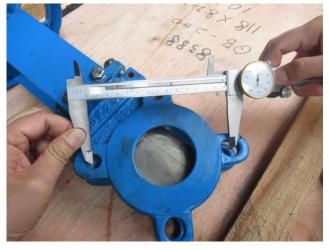








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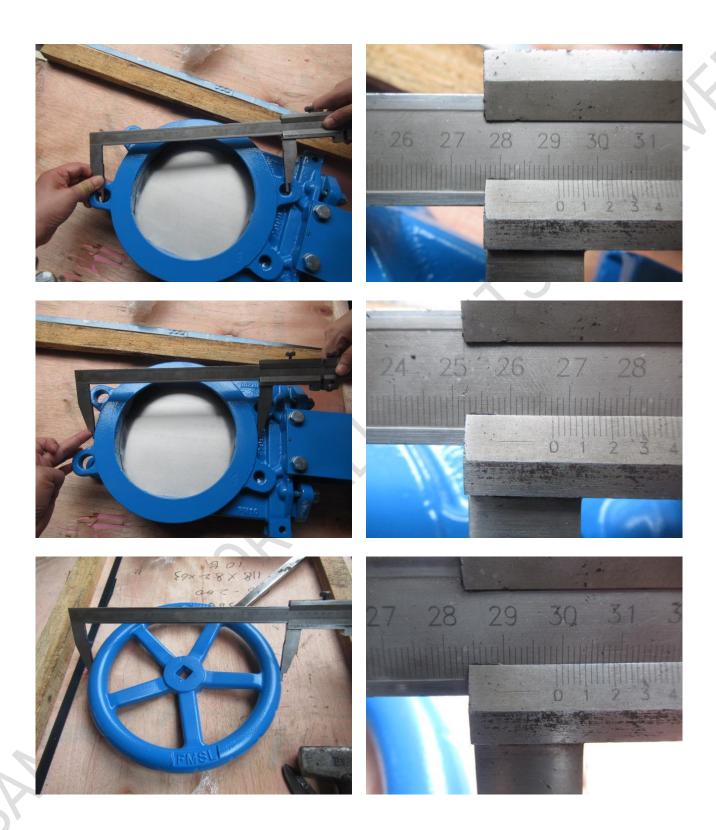
























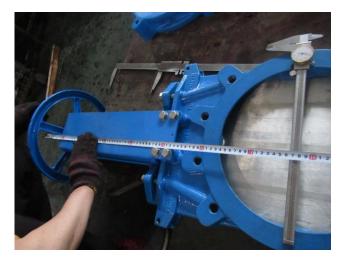






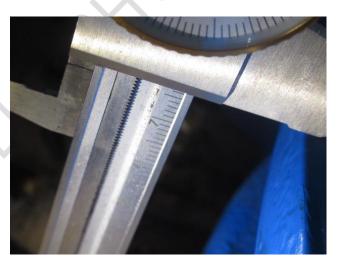


















F. WITNESS TESTING

F.1. VISUAL INSPECTION

Sample size:

According to ANSI/ASQC Z1.4 general inspection level III:

Total 24 samples

F.2. DIMENSIONAL INSPECTION

Sample size:

Total 3 samples 1pcs/item according client's claim.

F.3. PRESSURE TEST

Testing following ISO 5208.

Obturator test: Pressure test was performed by factory staff under the guidance of inspector, the rated pressure for each item tested is 1.2 Mpa(Pressure = 1,1 x PN , PN=1.6MPa(16bar)), the pressure will be increased gradually from 0 to 1.2 Mpa, when it reached 1.2 Mpa, it will keep $0.15\sim2$ minutes(30s for DN80 ~125), The test shall show no leakage through the metal, pressure containing joints, or stem seals;

Shell test: Pressure test was performed by factory staff under the guidance of inspector, the rated pressure for each item tested is 2.4 Mpa(Pressure = $1.5 \times PN$, PN=1.6MPa(16bar)), the pressure will be increased gradually from 0 to 2.4 Mpa, when it reached 2.4 Mpa, it will keep $0.15\sim3$ minutes($1.5 \times PN$), The test shall show no leakage through the metal, pressure containing joints, or stem seals;

PAINTING TEST (3 pcs):

This painting test was by a hammer as factory had no test equipment.

The painting test Factory make indenter (0.5kg) free fall at 1 m height, slight dent was found after test.

Pictures for testing:





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G. INSTRUMENT CHECKLIST

No calibration certificate was available from the factory for the instrument used during test

H. PACKING - SHIPPING MARKS - MARKING OF THE PRODUCTS

Valves have to be packed inside the wooden box, but shipping mark on it for DN150/200/250. Without packing side, the wooden box for DN 80/100/125.

DN50 BEFORE WASHING LINE NOT FINISH

















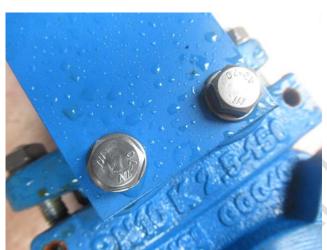




DN65 BEFORE WASHING LINE NOT FINISH





















































































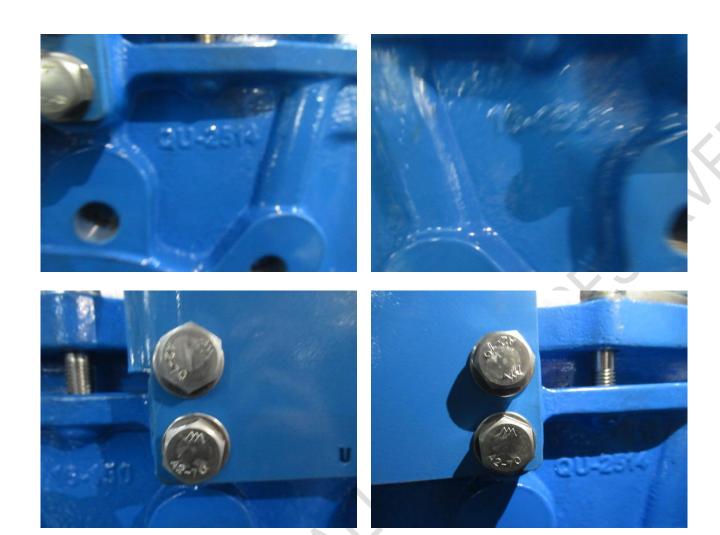








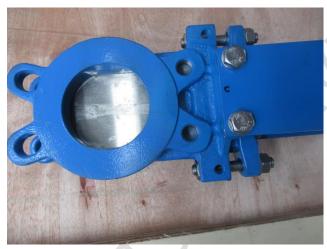
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Report NR.: SAMPLE PRESHIPMENT REPORT

















DN 125































PRE-SHIPMENT REPORT COMPLETED SUCCESFULLY. THANKS FOR YOUR ATTENTION.

PRE-SHIPMENT REPORT REF. NR: HKC21605

For more information, please contact our quality technical department. valves@davincivalves.com







