



捷流閥業股份有限公司

VALUE VALVES CO., LTD.

INSPECTION CERTIFICATE

(EN 10204:2004-3.1)



MESSRS.: UNIMECH MALAYSIA DATE: Sep.18,2020
 ORDER NO.: ZPO-2008-0022 CERTIFICATE NO.: 223-20200828001-1
 NAME OF MATERIAL: BUTTERFLY VALVES suitable for II2GD

TYPE	SIZE	OPERATOR	QUANTITY UNIT	FLANGE	PED CATEGORY	REMARK
VF-930A	DN150	BARE SHAFT	6/PC	ANSI 150LB	II	
VF-930A	DN200	BARE SHAFT	8/PC	ANSI 150LB	III	

MATERIAL	BODY	ASTM A216 Gr. WCB	DISC	ASTM A351 CF8M
	STEM	ASTM A182 F316	SEAT	INCONEL 718

TEST SPECIFICATION	API 598	CLASS	150LB	DURATION	RESULT
HYDRAULIC TEST	SHELL	31.0 bar		2" ↓ 15s' 2.5"~6" 60s' 8"~12" 120s' 14" ↑ 300s'	Pass
LOW-PRESSURE CLOSURE TEST BY AIR (Flow-Directional Pressurized)	SEAT	6.0 bar		2" ↓ 15s' 2.5"~6" 60s' 8"~12" 120s' 14" ↑ 120s'	Pass

DIMENSION INSPECTION	Pass
VISUAL INSPECTION	Pass
PERFORMANCE CHECK	Pass
PAINTING CHECK	Pass
NON-DESTRUCTIVE EXAMINATION (PLEASE CHECK CUSTOMER SPEC)	N/A
DECLARATION OF CONFORMITY TO PED 2014/68/EU Module H CE0035 & ATEX 2014/34/EU suitable for II2GD Notified Body : TUV Rheinland	

CUSTOMER AUTHORIZATION:	Q.C. LEADER:  18-Sep-20	PERSON IN CHECKAGE:  18-Sep-20
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MESSRS.: UNIMECH MALAYSIA DATE: Sep.18,2020



ORDER NO.: ZPO-2008-0022 CERTIFICATE NO.: 223-20200828001-3

NAME OF MATERIAL: ASTM A351 CF8M DISC

ITEM		CHEMICAL COMPOSITION (%)										
SPECIFICATION	CHARGE NO	C	Si	Mn	P	S	Ni	Cr	Mo			HEAT NO.
		0.08 max.	1.50 max.	1.50 max.	0.040 max.	0.040 max.	9.00 max.	18.00 max.	2.00 max.			
DN150		0.06	0.89	0.96	0.008	0.024	9.21	18.32	2.18			Y0365
DN200		0.03	0.91	0.98	0.032	0.003	9.65	19.20	2.20			5Z68
DN200		0.04	0.87	0.76	0.032	0.003	9.47	19.30	2.19			5Z69
DN200		0.04	1.02	0.79	0.032	0.003	9.75	19.00	2.18			5Z70
DN200		0.02	0.88	0.77	0.036	0.005	9.25	19.00	2.23			5Z71

ITEM		PHYSICAL PROPERTIES				
SPECIFICATION	CHARGE NO	Tensile strength MPa	Yield strength MPa	Elongation(%)	Heat Treatment	
		485 min.	205 min.	30 min.	1040°C min. W.Q.	
DN150		549	352	48	1080°Cx90mins	
DN200		533	277.1	45	1060°Cx2hrs	
DN200		530	275.6	43.8	1060°Cx2hrs	
DN200		534	277.6	44.4	1060°Cx2hrs	
DN200		535	278.2	43.8	1060°Cx2hrs	

REMARKS:

Q.C. LEADER:  PERSON IN CHECKAGE: 

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Management System ISO 9001:2015
www.tuv.com
ID: 310501048



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MESSRS.: UNIMECH MALAYSIA DATE: Sep.18,2020
 ORDER NO.: ZPO-2008-0022 CERTIFICATE NO.: 223-20200828001-2
 NAME OF MATERIAL: ASTM A216 Gr. WCB BODY

ITEM		CHEMICAL COMPOSITION (%)										
SPECIFICATION		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	HEAT NO.
CHARGE NO		0.30	0.60	1.00	0.035	0.035	0.50	0.50	0.20	0.30	0.03	
		max.	max.	max.	max.	max.	max.	max.	max.	max.	max.	
	DN150	0.24	0.33	0.73	0.014	0.004	<0.01	0.03	<0.01	0.01	<0.01	U0328
	DN200	0.20	0.29	0.76	0.018	0.006	0.02	0.02	<0.01	0.01	<0.01	U9805
	DN200	0.20	0.33	0.77	0.021	0.008	<0.01	0.05	<0.01	0.02	<0.01	U9923
	DN200	0.21	0.25	0.73	0.018	0.007	0.02	0.02	<0.01	0.01	<0.01	U9927
	DN200	0.21	0.29	0.75	0.019	0.006	0.02	0.02	<0.01	0.01	<0.01	U9Y06

ITEM		PHYSICAL PROPERTIES				
SPECIFICATION		Tensile Strength MPa	Yield Strength MPa	Elongation in 2 in(%)	Reduction of Area(%)	Heat Treatment
CHARGE NO		485~655	250 min.	22 min.	35 min.	Air cooling
	DN150	564	285	33	44	920°C×2.3hrs
	DN200	565	284	28	42	920°C×2.3hrs
	DN200	558	285	30	42	920°C×2hrs
	DN200	547	279	32	44	920°C×2.3hrs
	DN200	552	286	29	40	920°C×2.3hrs

REMARKS:

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MESSRS.: UNIMECH MALAYSIA DATE: Sep.18,2020
 ORDER NO.: ZPO-2008-0022 CERTIFICATE NO.: 223-20200828001-4
 NAME OF MATERIAL: ASTM A182 F316 STEM

ITEM	CHEMICAL COMPOSITION (%)										
SPECIFICATION	C	Si	Mn	P	S	Ni	Cr	Mo	N		HEAT NO.
CHARGE NO	0.08 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	10.00 14.00	16.00 18.00	2.00 3.00	0.10 max.		
DN150	0.02	0.44	1.65	0.030	0.026	10.47	17.24	2.03	0.07		9SH0222-LG0
DN200	0.01	0.52	1.59	0.032	0.026	10.11	17.12	2.04	0.08		9SH0125-GC0

ITEM	PHYSICAL PROPERTIES				
SPECIFICATION	Tensile strength MPa	Yield strength MPa	Elongation (%)	Reduction of area (%)	
CHARGE NO	515 min.	205 min.	30 min.	50 min.	
DN150	610	270	59	78	
DN200	625	311	55	79	

REMARKS:
 Heat Treatment : minimum 1040°C and quench cool below 260°C

Q.C. LEADER:  18-Sep-20
 PERSON IN CHECKAGE:  18-Sep-20

