

Goodwin

ISO 9001
BSI Registered
Cert No: FM00343

BS EN 10204 3.1 + NACE MR-01-75 /
ISO 15156 CERTIFICATE
API 594 DUAL PLATE CHECK VALVE

CLIENT: R P VALVES LTD
ORDER N°: 0000085819
PART CODE: BR002-015-CUUPRYE
DESCRIPTION: 2 IN ASME 150 RF CHECK VALVE

QUANTITY: 20
ITEM N°: 1
TAG N°:

GOODWIN JOB N°
AM35813/1

VALVE NO	BODY	PLATE	BODY SEAT	PLATE SEAT	SPRING	CARRIER	HINGE & STOP PIN	KEEPER PLATES	OTHER
	ASTM A105	Cobalt Alloy 6	Cobalt Alloy 6	As Plates	Inconel X750	ASTM A351 CF8M	ASTM A276 / A479 410ss	ASTM A240 316	
1	YL8	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
2	YL8	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
3	YL8	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
4	YL8	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
5	YL8	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
6	YL7	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
7	YL7	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
8	YL7	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
9	YL7	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
10	YL8	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
11	YL8	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
12	YL8	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
13	YL8	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
14	YL8	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
15	YL7	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
16	YL7	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
17	YL8	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
18	YL7	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
19	YL8	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	
20	YL7	N8MW N8MW				E4 E4	E1 E1	SA2 SA2	

Additional Information: N/A

N/A

N/A

Statement of Conformity:

We hereby certify that the valves and materials detailed above have been manufactured, inspected and tested in accordance with the requirements of the Purchase Order and unless otherwise noted, conform in all respects to the relevant National and International Standards.

Test Pressures

HYDRO SHELL TEST PRESSURE	SHELL TEST EXTENDED TESTS	TEST RESULTS TEST IN ACCORDANCE WITH API 594 / API 598 / ASME B16.34
450 psi	N/A	
HYDRO SEAT TEST PRESSURE	SEAT TEST EXTENDED TESTS	
325 psi	N/A	
AIR SEAT TEST PRESSURE	AIR SEAT TEST EXTENDED TESTS	
N/A	N/A	
OTHER TEST	OTHER TEST	
N/A	N/A	

CERTIFIED BY	AUTHORISED SIGNATORY
Karen Holdforth	
DATE	28-Feb-2023

DOCS ATTACHED :

MATERIAL CERTS (BODY & PLATE)
INSPECTION AND NDT REPORTS

GOODWIN INTERNATIONAL LTD
STOKE-ON-TRENT, ENGLAND

GI Page No :- 35813/1

Q.A.F. 075 NAP.B REV 8

MATERIAL CERTIFICATE

(BS EN 10204 3.2) + NACE MR-01-75

CERTIFICATE No. : YCM111108-M105.2
YCM WORK No. : -
PRODUCT NAME : CHECK VALVE BODY
ISSUED DATE : NOVEMBER 08, 2011.

CUSTOMER : GOODWIN INTERNATIONAL LIMITED
MASTER P/O No. : 00158406-GB-STOCK
DRAWING No. : B01-020-0300-COH
SPECIFICATION : ASTM A105 (09 ED)



YOUNG CHANG METAL CO.,LTD.

#630, Gomo-ri, Jillye-myeon
Gimhae-city, Gyeongnam, Korea
Tel : 055. 345. 1867-8 Fax : 055. 345. 1869

Heat No. & Charge No.	DIVISION	CHEMICAL COMPOSITION (%)													Non-destructive examination (3)	
	Min.	C	SI	Mn	P	S	Cu	Ni	Cr	Mo	Co	Nb	V	CE		
	Max.	0.20	0.35	0.60	0.01	0.01	0.40	0.40	0.30	0.12	0.005	0.005	0.42	0.33		
(Heat Analysis) S75261		0.17	0.21	0.80	0.007	0.008	0.13	0.05	0.08	0.01	0.001	0.001	0.001	0.333		
MILL NAME		DONGIL INDUSTRIES CO.,LTD.													Dimension & Visual Inspection	

◆ Remark : * @ : REFER TO THE ASTM A105 TABLE 1, GENERAL NOTE * CE = C + (Mn/6) + ((Cr+Mo+V)/5) + ((Cu+Ni)/15)
* NACE MR-0175 / ISO15156 : Hardness Test Value = Max 22HRC (Max.237HB) * Customer's Hardness Requirement : 137-187BHN
* Chemical Composition (%) : C = Max.0.20%, P = Max.0.01%, S = Max.0.01%, V&Nb = Max.0.005%

ARTICLES				MECHANICAL PROPERTIES		TENSILE TEST ④						HARDNESS TEST		CHARPY IMPACT TEST		BEND TEST
						Location ①	Size of Test Specimen		Temp. ℃ / °F	Y.S.	T.S.	E.L.	R.A.	HB	2V (10by10) / unit : J	Radius :
										N/mm ² (MPA)		%			Temp. : - 50 ℃	
Unit in" ft" mm:space Qty(ea)		Test Mark & Stamp No.		D mm	G.L mm	℃	MIN. 250	MIN. 485	MIN. 22	MIN. 30	MIN. 137 MAX. 187	Min. Avg. : 40 Min. Single : 28	Angle :			
CHECK VALVE BODY 300# 2"	991	YL8	T	6.25	25.0	20	359	531	36.9	73.7	167, 167	45.9, 86.6, 84.2 Avg : 72.2	N/A			

Heat Treatment ②	CYCLE	Notes	① - Location : L = Longitudinal Tr = Transverse T = Tangential R = Radial
	Q, 880 °C X 90 MIN. W.C. T, 660 °C X 150 MIN. A.C.		② - Heat Treatment : A = Annealed N = Normalized Q = Quenched T = Tempered S.T = Solution Treated S.R = Stress Relieved A.C = Air Cooled W.C = Water Cooled F.C = Furnace Cooled O.C = Oil Cooled
			③ - Surface Condition : A.F = As Forged R.M = Rough Machined F.M = Finish Machined
			④ - Tensile Test : Y.S. = Yield Strength T.S. = Tensile Strength E.L. = Elongation R.A. = Reduction of Area G.L. = Gauge Length D = Diameter

<input type="checkbox"/> Witnessed by <input type="checkbox"/> Reviewed by		* CALIBRATION * a. Universal Tester (2011. 01. 27.) b. Charpy Impact Tester (2011. 01. 27.) c. Brinell Hardness Tester (2011. 01. 27.) We hereby certify that the material herein has been made and tested accordance with the above specification and also with the requirement called for by the above order.	 G. JAMES 49	 YOUNG CHANG METAL CO.,LTD.
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* SURVEYOR (LR)
FORM: YC08-19/1

* Manager of Quality Assurance Dept.
YOUNG CHANG METAL CO.,LTD.



MATERIAL CERTIFICATE

(BS EN 10204 3.2) + NACE MR-01-75

CERTIFICATE No. : YCM091102-M201.2
YCM WORK No. : S28-B-1
PRODUCT NAME : CHECK VALVE BODY
ISSUED DATE : NOV. 02. 2009.

CUSTOMER : GOODWIN INTERNATIONAL LIMITED
MASTER P/O No. : 00145250-MB-STK
DRAWING No. : BR01F-02-150
SPECIFICATION : ASTM A105 (06 ED)



YOUNG CHANG METAL CO.,LTD.
#630, Gomo-ri, Jillye-myeon
Gimhae-city, Gyeongnam, Korea
Tel : 055. 345. 1867-8 Fax : 055. 345. 1869

Heat No. & Charge No.	DIVISION	CHEMICAL COMPOSITION (%)													Non-destructive examination③			
		C	Si	Mn	P	S	Cu	Ni	Cr	Mo	Cb/Nb	V	CE	Ultrasonic Test	A.F.	GOOD		
	Min.		0.15	0.60														
	Max.	0.20	0.35	1.35	0.01	0.01	0.40	0.40	0.30	0.12	0.005	0.005	0.42					
(Heat Analysis) A17625		0.178	0.200	1.222	0.01	0.0021	0.143	0.052	0.069	0.013	0.002	0.001	0.411					
MILL NAME		POSCO SPECIALTY STEEL CO.,LTD.													Dimension & Visual Inspection			GOOD
* Remark : ① : REFER TO THE ASTM A105 TABLE 1. GENERAL NOTE (Mn = Max.1.35%) * NACE MR-0175 / ISO15156 : Hardness Test Value Max.22HRC (Max.237HB) * Customer's Hardness Requirement : 137~187BHN * Chemical Composition (%) : C = Max.0.20, P = Max.0.01, S = Max.0.01, V&Nb = Max.0.005 * CE = C + (Mn/6) + ((Cr+Mo+V)/5) + ((Cu+Ni)/15)																		
ARTICLES	MECHANICAL PROPERTIES	TENSILE TEST ④								HARDNESS TEST	CHARPY IMPACT TEST	BEND TEST						
		Location ①	Size of Test Specimen	Temp. °C / °F	Y.S.	T.S.	E.L.	R.A.										
					N/mm ² (MPA)	%												
					MIN. 250	MIN. 485	MIN. 22	MIN. 30										
Unit	Test Mark & Stamp No.	D mm	G.L mm	°C	°F	MIN. 250	MIN. 485	MIN. 22	MIN. 30	MIN. 137 MAX. 187	2V (10by10) / unit : J	Temp. : - 50 °C	Radius :					
in' ft' mm'space Q'ty(ea)											Min. Avg. : 40	Min. Single : 28	Angle :					
CHECK VALVE BODY 1500# 2'	154	YL7	T	6.25	25.0	20	374	564	31.4	70.4	177, 174	162.5, 151.5, 179.3 AVG. : 164.4	N/A					
Heat Treatment ②	CYCLE		Notes ① - Location : L = Longitudinal Tr = Transverse T = Tangential R = Radial ② - Heat Treatment : A = Annealed N = Normalized Q = Quenched T = Tempered S.T. = Solution Treated S.R. = Stress Relieved A.C. = Air Cooled W.C. = Water Cooled F.C. = Furnace Cooled O.C. = Oil Cooled ③ - Surface Condition : A.F. = As Forged R.M. = Rough Machined F.M. = Finish Machined ④ - Tensile Test : Y.S. = Yield Strength T.S. = Tensile Strength E.L. = Elongation R.A. = Reduction of Area G.L. = Gauge Length S = Diameter * CALIBRATION : a. Universal Tester (2009. 01. 30.) b. Charpy Impact Tester (2009. 01. 30.) c. Brinell Hardness Tester (2009. 01. 30.)															
	Q. 880 °C X 2.0 HRS. W.C. T. 650 °C X 2.5 HRS. A.C.																	
<input type="checkbox"/> Witnessed by <input type="checkbox"/> Reviewed by		We hereby certify that the material herein has been made and tested accordance with the above specification and also with the requirement called for by the above order.																

* SURVEYOR ()
FORM: YC08-19/1

* Manager of Quality Assurance Dept't
YOUNG CHANG METAL CO.,LTD.





INTOLCAST PRIVATE LIMITED

16,17,18,19 ANKUR INDUSTRIAL COMPLEX,15 KM. RAJKOT-GONDAL ROAD,SHAPAR,,RAJKOT,Pin:360024,INDIA
Tel:+912827-252051/252052/252053,,Fax:+912827-252054,e-mail:info@intricastindia.com,WEB : www.intolcast.com

INSPECTION CERTIFICATE EN 10204 - type 3.2

ISO 9001 : 2015
Certificate No.
04100001006/02

Page 1 of 1 F08/12

ENCARGO	GOODWIN INTERNATIONAL LTD NEWSTEAD INDUSTRIAL ESTATE, PLANTATION ROAD, TRENTHAM STOKE-ON-TRENT, ST4 8HU	T.C. No. : GI/078/23 O.A. No. : B14812 P.O. No. : RM114/22-23-247112	Date: 19/09/2022 Date: 14/07/2022 Date: 14/07/2022
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QTY.	DRAWING No.	ITEM DESCRIPTION	Mould No.	Partnumber	Heat No.
870	B02I-02-06-ISS2 REV A	2" CL 150-600 PLATE	Z12140A	NCVP-02060N22XX	N8MW

Material : SPECIFICATION FOR ALLOY 6 INVESTMENT CAST CHECK VALVE DISC & OUR TDC.NO.572D
Delivery Condition : AS CAST



CHEMICAL ANALYSIS

Heat No	C.%	Mn.%	Si.%	Cr.%	Ni.%	W.%	Fe.%	Co.%
>=	-	-	-	27.000	-	4.000	-	BAL.
<=	1.500	2.000	1.500	31.000	3.000	6.000	6.000	-
N8MW	0.920	0.790	0.990	28.485	0.342	5.220	2.460	BAL.

MECHANICAL PROPERTIES

Heat No.	Hardness	Tensile Test					Impact Test AT CHARPY-V MIN. J				LATERAL EXP. (mm) MIN.			
	HRC	Rm Mpa	Rp 0.2% Mpa	Rp 1.0% Mpa	A5 %	Z %	10 X 10 X 55							
>=	33	-	-	-	-	-								
<=	-	-	-	-	-	-	1	2	3	AVG	1	2	3	AVG
N8MW	37 - 38	-	-	-	-	-	-	-	-	-	-	-	-	-

VISUAL INSPECTION : ALL CASTINGS AS PER MSS SP 55, NO RADIOACTIVE CONTAMINATION.
THE CHEMICAL ANALYSIS IS A PRODUCT ANALYSIS. L.P. TEST AS PER ENCLOSED INTOLCAST REPORT NO.141/23
MANUFACTURED TO THE MDS ALLOY-6 REV 4



We confirm that above material was manufactured, sampled, tested and inspected in accordance with
PO.Requirement & Material Specification SPECIFICATION FOR ALLOY 6 INVESTMENT CAST CHECK VALVE
DISC & OUR TDC.NO.572D and was found to meet the requirements.

Tested By:
HITENDRA SORTHIIYA

For INTOLCAST PRIVATE LIMITED

HITENDRA SORTHIIYA
CHIEF CHEMIST



Doc.Amdt No. : 02 Date : 22.06.2004

QA SYSTEM AS PER ANNEX.1, CLAUSE 4.3 OF PED 2014/68/EU CERTIFIED BY TUVNORD WIDE CERT.NO. 1053/20



INTOLCAST PRIVATE LIMITED

F08/13

16,17,18,19 ANKUR INDUSTRIAL COMPLEX,15 KM. RAJKOT-GONDAL ROAD,SHAPAR ,RAJKOT - 360024, INDIA
Tel.:+912827-252051/252052/252053 Fax.:+912827-252054

Liquid Penetrant Examination Report

Report No.	: 141/23	Dt.	19/09/2022	D.C No	: GI/078/23
Customer	: GOODWIN PUMPS INDIA PRIVATE LIMITED*	D.C Date	: 19/09/2022		
Procedure	: SOLVENT REMOVABLE TYPE VISIBLE PENETRANT AND SUSPENDED DEVELOPER	P.O No	: RM114/22-23-247112	Dt	14/07/2022
Evaluation Std	: ASME VIII DIV 1 - APP 7	Matl Spec.	: SPECIFICATION FOR ALLOY 6 INVESTMENT CAST CHECK VALVE DISC & OUR TDC.NO.572D		
Condition	: UN MACHINED INVESTMENT CASTING	Method	: AS PER ASME V ART - 6		

SR	Heat #	Mould #	Description	Drawing No. / Part No.	Qty	Results
1	N8MW	Z12140A	2" CL 150-600 PLATE	B02I-02-06-ISS2 REV A NCVP-02060N22XX	870	ACCEPTABLE

Remarks:- ALL ACCESSIBLE AREA COVERED

Amdt No. :- 01

Date :- 20.9.2016

For INTOLCAST PRIVATE LIMITED

MEHUL VAISHNAV - QA PT II

CERTIFIED MATERIAL TEST REPORT

115-4, YUNGTAE-RI, WOLLONG-MYON,
PAJU-CITY, KYUNGKI-DO, KOREA (ADDRESS)

Master P/O NO : 00239011-MEB

Material Specification : ASTM A351 CF8M

TO. GOODWIN INTERNATIONAL LTD.

MATERIAL FORM INVESTMENT CASTING

CO NO	HEAT NO	TITLE	PCS	PART NO	CHEMICAL ANALYSIS (%)									
					C	Si	Mn	P	S	Ni	Cr	Mo		
1	E4	2" CARRIER	2.997		0.027	1.366	0.942	0.026	0.009	11.136	18.980	2.332		
2	E1	3" CARRIER	1.094		0.014	0.957	0.864	0.030	0.009	11.105	18.723	2.729		
3	E3	4" CARRIER	675		0.013	1.088	0.978	0.029	0.009	11.660	19.056	2.584		
4	E2	6" CARRIER	597											
5	E4	8" CARRIER	237		0.032	1.317	1.259	0.026	0.009	10.312	18.347	2.027		
6	E8	16" CARRIER	102		0.056	0.758	1.243	0.026	0.020	10.834	18.614	2.671		
SPEC.					MAX 0.08	MAX 1.50	MAX 1.50	MAX 0.040	MAX 0.040	9.00– 12.00	18.00– 21.00	2.00– 3.00		

PHYSICAL PROPERTIES							HEAT TREATMENT	
CO NO	HEAT NO.	TENSILE	YIELD	ELONG	RED. AREA	HARDNESS	PROCESS	SOLUTION
		(Ksi)	(Ksi)	(%)	(%)	(HRB)		
1	E4	75	43	41		AVG(X1~X3) 83.28	TEMP	1050℃
2	E1	79	42	40				
3	E3	77	40	43			TIME	180 min
4	E2							
5	E4							
	E8					COOL	N2	
	SPEC.	MIN 70	MIN 30	MIN 30		HRB 90 MAX	HEAT TREATMENT INSPECTION NO	20210303-V4-21

REMARK

We hereby certify that the material(s) and/or process(es) covered by this C M T R have been manufactured, sampled, tested, and inspected in accordance with the material specification and found to meet all the requirements set forth in the applicable blueprint, specifications and/or clauses which are part of the purchase order. The test results are substantiated by appropriate records maintained in out files and are available for inspection upon request.

Certified by Q. C. Assistant Manager : J. H. LEE Checked : H. S. LEE DATE : 2021.03.18

AUTHORIZED SIGNATURE

In accordana with BS EN 10204 3.1 & NACE MR0175 . ISO 15156



Acciaierie Valbruna s.r.l.

36100 Vicenza (Italia) - V.le della Scienza, 25

Telefax: 480090 VALV11 - Telegrammi: Acciaierie Valbruna - Fax: (0444) 563672
Telef.: (0444) 968211 (30 linee R.A.) - Casella postale 784 - C.C.I.A.A. 190869
Canc. Tribunale di Vicenza n. 19944 - Cod. Fisc. e Partita IVA 01663340244



VALBRUNA U.K LTD WEST BROMWICH B70 9BH GB

CERTIFICATO DI COLLAUDO / TEST CERTIFICATE

DIN 50049, 3.1.B. - EN 10204, 3.1.B.

N. 656/98-UK

Bolla di consegna n. 98/ 3598-S
delivery note

Conferma n. 97 U 381 Art. 2
confirmation

Tipo VAL1B
quality

Stato di fornitura COLD S COND.R
delivery condition

Profilo in mm. ROUND 10.00
size

Cliente
purchaser

Ordine n.
purchaser order
TOL.H9

Nr pezzi
pieces

Peso Kg. 1087
weight

LGTH: 3400 Weight

Analisi Richiesta	C	Si	Mn	Cr	Ni	P	S								
chemical requirem.	min	0.09			11.5										
	max	0.15	1.0	1.0	13.5	1.00	0.040	0.030							
Nr. Colata heat nr.	C	Si	Mn	Cr	Ni	P	S								
1233	0.14	0.4	0.6	12.2	0.30	0.016	0.024								

Specifiche applicabili: BS 970-3.91, 410S21 TABLE 23 MACH HR0175, 97,
According to:

9/3/98 *Long*

Trattamento Termico	Normalizz. normaliz.	Ricottura annealing	Ricristallizz. annealing	Invecchiame. aging	Solubilizz. annealing	Tempra quenching	Mezzo medium	Rinvenimento tempering
heat treatment	°C							

Caratt. Meccaniche Richieste	R N/mm ²	Rp0.2 N/mm ²	Re N/mm ²	A5 %	Z %	Lavoro assorbito impact value	Durezza hardness	
mechanical requirements							HB	HRC
<input type="checkbox"/> colata heat	min	700	495	525	15		201	
<input checked="" type="checkbox"/> prodotto as-shipped	max	850					255	22
Provetta specimen	Test	R N/mm ²	Rp0.2 N/mm ²	Re N/mm ²	A5 %	Z %	HB	HRC
10	A	815	712	650	20	64	248	21

Lotto N. 970339500

Stamping: 410S21

Inspector's stamp:



Other tests or requirements:

Acciaio prodotto al forno
elettrico ad arco.
Melting process: E

Vicenza, 27/02/98

Resp. Controllo Qualità
Quality Control
M. RIZZOTTO

Il Collaudatore
Inspector

cat-04 P


CERTIFICATE - ZEUGNIS - CERTIFICAT
EN 10204-3.1
2661843-EN

 Date Datum Date
01-Feb-2021

 Load, Ladung, Charge No
GB/218026

 Acknowledged ID, Bestätigung, Commande ID
6610/300596763
BATCH PLZ20212

 Invoice No. Page
 Rechnung Nr. Seite
 N° de facture Page
6610/1000943598 1/1

Business Unit / OCM

Avesta Works / Jerker Sterneland

 Your ref., Ihre Ref., Votre ref.
P71481

 Buyer, Besteller, Acheteur
 The P.P. Group of Companies Ltd
 Bay 1, Profiles Point
 Drury Lane, Chadderton
 OL9 7PH, Oldham
 UNITED KINGDOM

 Consignee, Empfänger, Lieu de livraison
 The P.P. Group of Companies Ltd

 Mark of Manufacturer
 Zeichen des Lieferanten
 Signe de producteur

 Process
 Erhmelungsart
 Mode de fusion

E+AOD

 Inspector's stamp
 Zeichen des Sachverständigen
 Poicon de l'expert

 Grade, Werkstoff, Nuance
 Outokumpu Supra 316L/4404
 TYPE 316
 TYPE 316L
 1.4401
 1.4404

 Product, Erzeugnisform, Produit
**Stainless Steel Cold Rolled, Coil-Plate
 finish 2B, cut edge**

Line Reihe Ligne	Item Position Poste	Heat-Lot No Schmelz-Lot Nr Coulée n° - Lot No	Size Abmessungen Dimensions	Pieces Stückzahl Nombre	Quantity / Unit Menge / Einheit Quantité / Unité	
1	1	504659-003	3,00 X 2000 X 4000 mm	15	2876 KG	

Chemical composition - Chemische Zusammensetzung - Composition chimiques

	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Nb	Cu	Co	N
Heat	.022	.52	1.29	.033	.001	16.94	10.06	2.01	.004	.040	.46	.27	.048

Radioactive contamination check acc. IAEA recommendations: Approved

Test results - Prüfergebnisse - Résultats des essais (1N/mm² = 1 MPa) F = Front - Anfan - Debut B = Back - Ende - Fin T = Transverse - Quer - Travers

Test Ref	Temp °C	RP 0.2 N/MM2	RP 1.0 N/MM2	RM N/MM2	A5 %	2" %	HB
Min	+20	240	270	530	40	40	
Max				680			217
F T	+20	314	339	635	55	52	156
B T		345	358	650	52	50	167

Certified acc. to AD 2000-Merkblatt W0 by TÜV NORD, notified body, Reg-No. 0045

Material conforms to NACE MR0175 / ISO 15156-3 in supplied condition

Material conforms to NACE MR0103 / ISO 17945 in supplied condition

Corrosion acc. ASTM A 262-E, EN ISO 3651-2A: Approved

Heat treatment / Solution annealed: Material temp minimum 1040 °C / Quenched (forced air + water)

Steel grade verification (PMI-spectroscopic): Approved

Marking, visual insp. and gauge measurement: Approved

Certified acc. to PED 2014/68/EU by TÜV NORD, notified body, Reg-No. 0045

 Outokumpu Stainless AB
 Business Area Europe
 AVESTA WORKS
 SWEDEN
 Regoffice: Stockholm SWEDEN, Regno: 556001-8748

 Telephone: + 46 (0)226 811 73
 Fax: + 46 (0)226 816 46
 V.A.T no: SE556001874801

This material is found to comply with order requirements

 Joakim Johansson
 Authorized Inspector

 P.P. Group
 Verified true copy of the
 original certificate
 Signed: [Signature]


Declaration of Conformity

The valves referenced herein comply with the Pressure Equipment (Safety) Regulations SI 2016
No. 1105, as amended.

Conformity Assessment Procedure followed Module H (Certificate No. UKCA 756027)

This declaration of conformity is issued under the sole responsibility of Goodwin International Ltd.

Customer:

R P VALVES LTD

Goodwin Job Reference:

AM35813

Dual Plate Product Code:

BR002-015-CUUPR/YE

Technical Standards Used (Latest Editions):

API 594
ASME VIII
ASME B16.34

Other Relevant UK Regulations (As applicable to PO)

ATEX SI 2016 No.1107, as amended

Designated Standards:

No designated standards apply

Approved Body Conducting the Conformity Assessment

BSI Assurance UK Ltd., Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes, MK5 8PP UK, BSI 0086

Name: John Marsh

Position: QA Director

Signature: 

Date: 28 February 2023

**UK
CA**

BSI 0086

Cert: UKCA 756027

Declaration of Conformity PED 2014/68/EU

The valves referenced herein comply with PED 2014/68/EU.

Conformity Assessment Procedure followed Module H (Certificate No. CE55079)

This declaration of conformity is issued under the sole responsibility of Goodwin International Ltd.

Customer:

R P VALVES LTD

Goodwin Job Reference:

AM35813

Dual Plate Product Code:

BR002-015-CUUPR/YE

Technical Standards Used (Latest Editions):

API 594
ASME VIII
ASME B16.34

Other Relevant EC Directives (As applicable to PO)

ATEX 2014/34/EU

Harmonised Standards:

No harmonised standards apply

Notified Body Conducting the Conformity Assessment

BSI Group The Netherlands B.V., John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands
BSI 2797

Name: John Marsh

Position: QA Director

Signature: 

Date: 28 February 2023



BSI 2797
Cert: CE55079

GOODWIN INTERNATIONAL

Newstead Ind. Est., Trentham, Stoke-on-Trent

Telephone: 01782 654000

Fax: 01782 208060

"Certifies that the supplies detailed hereon have been inspected and tested in accordance with the conditions and requirements of the contract or purchase order and unless otherwise noted below, conform in all respects to the specification(s), drawing(s) relevant thereto".

DECLARATION OF CONFORMITY TO DIRECTIVE 2014/34/EU(ATEX)

Dual Plate Check Valve

STYLES: B, BF, BS, BW, BWA, BH
(Retainered and Retainerless design)

Size; DN50 to DN3650 (2" thru' 144")

Class; PN10 to PN100, ASME 150 to 2500, API 2000 to 15000

Goodwin-NoReVa Axial Check Valves

Styles: NK, NB, ND, NC, NZ, NA, ZB, ZD, ZO, ZL, ZS, NG,

Size; DN25 to DN2200 (1" thru' 88")

Class; PN10 to PN100, ASME 150 to 2500, API 2000 to 15000

The referenced range of valves have undergone a hazard analysis in accordance with directive 2014/34/EU. Valves compliant with directive 2014/34/EU will be marked with the tag plate showing the relevant zone and category required by the directive. The valve also complies with European Directive 2014/68/EU as tagged.

The following harmonised standards have been used in the assessment of conformity

BS EN 1127-1:2011

BS EN 13463-1: 2009

BS EN13463-5: 2011

SIGNED :



Mr. John Marsh
Quality Assurance Director

DATE:

01/05/2020

FIRM OF ASSESSED
CAPABILITY



TO ISO 9001 QUALITY MANAGEMENT (Cert. No. PA1310)

ATEX Dec of Conformity Rev 6

Goodwin Client: **R P VALVES LTD**

Goodwin Job Number: **AM35813**

Goodwin Client PO Number: **0000085819**

Tel +44 (0)1782 654000

Fax +44 (0)1782 208060

www.checkvalves.co.uk

Date: 29th MARCH 2023

PRESSURE CLASS VS MATERIAL CERTIFICATES

This is confirmation that Goodwin purchase castings/forgings to specific size and ratings, then machine the items to suit alternative pressure class valves

Eg.

2" class 1500 forging/casting can be machined to 2" class 150

3" class 1500 forging/casting can be machined to 3" class 300

3" class 900/1500 forging/casting can be machined to 3" class 300

This is standard practice for the full range of valves and thus it is not practical to list each valve affected by item. This does not affect the rating of the finished valves supplied to contract.

The material certs identify the original class the castings are purchased to and the 3.1B front sheet identifies the finished class rating of the valve after machining the casting to suit.

Best Regards,



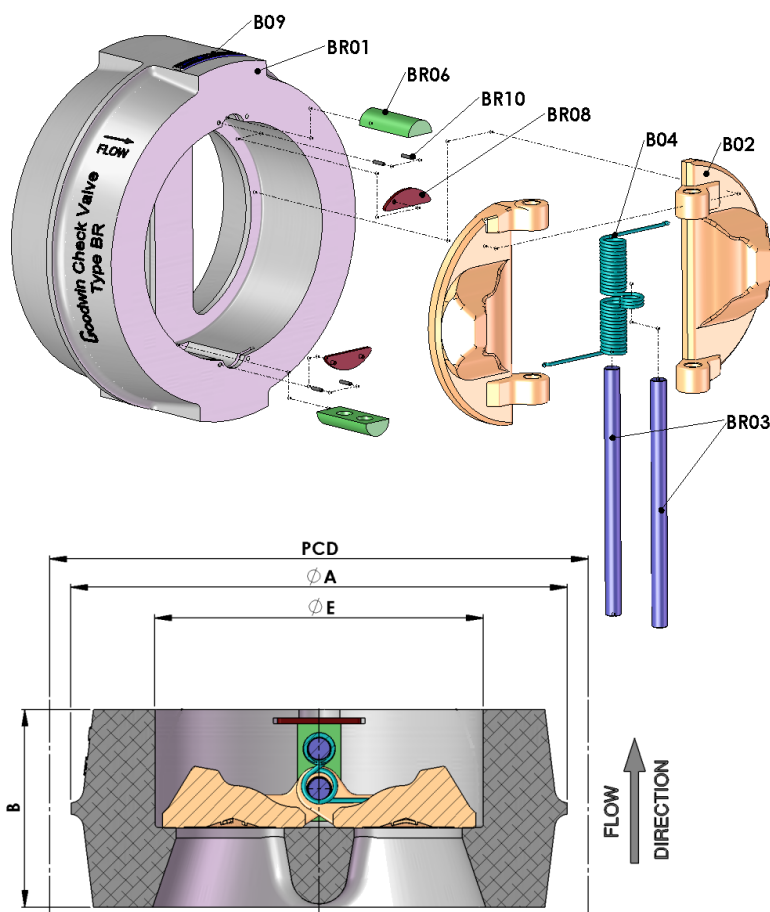
Mr. John Marsh
QA Director

Tel: +44 (0) 1782 654531

Fax: +44 (0) 1782 208060

Email: JMarsh@goodwingroup.com

Customer: RP/D - R P VALVES LTD
 Project: STOCK
 Item Number: 1
 PO Number: 85819
 Tag Info:



	Imperial	Metric
Size	2"	50mm
ASME Class	150#	
Dim A	4.13"	105mm
Dim B	2.38"	60mm
Dim E	2.25"	57mm
Dim Y	0"	0mm
PCD	4.75"	120.7mm

Flange Standard	ASME B16.5	
Holes Per Flange	4	
Valve Weight	7 lbs	3 kgs

Stud Selection		
Diameter	Length	
	Imperial	Metric
5/8"	6.5"	165mm

Valve Face	Raised Face 3.2-6.3 µm Spiral Groove
Valve Seat	Cobalt Alloy 6
Plate Overlay	None

BR002-015-CUUPR/YE

Item	Description	QTY	Material
BR01	Body	1	ASTM A216 WCB / A105
B02	Plates	2	Cobalt Alloy 6
BR03	Hinge & Stop Pin	2	AISI 410 Stainless Steel
B04	Spring	1	Inconel X750
BR06	Carrier	2	AISI 316 Stainless Steel
BR08	Keeper Plate	2	AISI 316 Stainless Steel
BR10	Retaining Screw	4	AISI 316 Stainless Steel
B09	Tag/Nameplate	1	316 Stainless Steel (Engraved)

Manufacturing Standards
STANDARDS APPLIED
ASME B16.5
API 594
EN ISO 8062-3
BS EN 10204
API 598
(if not covered by the above)
MANUFACTURER'S STD.

The materials in the valve description are cast / wrought / forged equivalents, to restrict the material allowed will have a direct implication on price and delivery of valves unless it was specifically stated and agreed at the point of quotation. Valve body outer profile may vary from that shown.

Notes: All materials conform to NACE MR-01-75 / ISO 15156 2009 Revision.
 B11 Eyebolt not supplied for valves under 20kg.