



Scope of the approval – Manufacturer of material in accordance with PER 2016/1105, Schedule 2, Part 4, Para. 31 (8)

Annex to certificate no. PER-0168-QS-M 3183398/2022/MUC-01 von / dated 2022-02-21

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Page 1 of 3					오	-01-10 W. Scho	Approved: 2022-01-10 W. Schock				Created / revised: 2022-01-10	Created
						= not annealed	AT = solution annealed NT = normalized and tempererd N = normalized S = stress relieved TM = thermo-mech, treated U = not annealed QT = quenched and tempered CR = temperature controlled hot formed (controlled rolled) A = annealed AR = as rolled a = material designation in column 10 b = condition in column 10 c = object in column 10 a = material designation in column 10 b = condition in column 10 c = object in column 10 to the column 10 c = which is a column 10 c = object in column	normalized S = tormed (controll 10 c = object in ical rules f = tec	npererd N = controlled ho on in column acc. to techn	nalized and ten = temperature 10 b = conditi es e = weight	·	Explanation:
For the use of materials acc. to column 2 till 4 the regulations and limits of the respective standards have to be observed. The specific material operating conditions have to be approved by the pressure equipment manufacturer or respectively by the Approved Body in charge.			200	N			Castings for valves, flanges, fittings and other pressure containing parts	ь)	17744	DZ	NICr21Mo14W (2.4602) NIMo16Cr16Ti (2.4610) NIMo16Cr2Mo2(2.4819) NICr22Mo9Nb (2.4856) NICr21Mo (2.4858)	03*)
			200	N			Castings for valves, flanges, fittings and other pressure containing parts	р)	14737	ISO	GS340 (1.0467) G26CnMo4 (1.7221) G34CnMo4 (1.7230) G42CnMo4 (1.7231) G20NiCnMo2-2 (1.6741) G30NiCnMo2-2 (1.6778)	02*)
Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory. b) Heat treatment condition according to mentioned standards			700	N			rditings and other pressure containing parts	Ü	25.2		GP 200H (1.0019) GP280GH (1.0628) G20Mo5 (1.5419) G17CM065-5 (1.7357) G17CM065-5 (1.7365) G20CNI12 (1.4107) GX4CNI13-4 (1.4317) GX12CM06VNbN9-1 (1.4955) GX2CNI19-10 (1.4308) GX2CNI19-10 (1.4308) GX2CNIIM019-11-2 (1.4409) GX5CNIIM019-11-2 (1.4409) GX5CNIIM019-11-2 (1.4408) GX2CNIIM019-20-2 (1.4458) GX2CNIIM019-25-3 (1.4470) GX2CNIIM0N22-5-3 (1.4471) GX2CNIIM0N25-7-3 (1.4417) GX2CNIIM0N25-7-3 (1.4417) GX2CNIIM0N25-7-4 (1.4469)	C
10	9b	9a	_	\perp	7a 7b	6a 6b	5	4	3b	3a	2	2
Remarks	No.	Spec.	value		from to	from to		Code	No.	Spec.		
Report no. C-72175567UK-22 dated 2022-02-01	Technical Rules	Techn		2= 1=	Diameter [mm]	Thickness [mm]	Product	Condition	Specification	Specif	Material Grade	
	Requirements	Regu	Weight	_	Dimensions	Dime	Description	Delivery	Material	Mat	Material Designation	No.
Competent Body of TUV SUD BABT Unlimited	Compete	1 of 3	ev. 0 2022-02-21	rev. 0 2022-	USA					Street \$209	Manufacturer: Street 5110 North 35th Street City: Milwaukee, WI 53209	Manuf
		Page	<u>e</u>	Date:	Country:				ring, Inc.	/ & Enginee	Name: Stainless Foundry & Engineering, Inc	
							FER 2016/1105, Schedule 2, Fart 4, Fara. 31 (8)	ledule z, r	103, 301	7 2010/1	7.0	





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Name Standbase Foundry & Engineering Inc. Country		-	ER 2010/1105, Scriedule 2,	100, 001		Fait 4, Faia. 31 (0)							
Sind North 36th Street Sind Registration Delivery Description Dimensions Weight Requirements of sade Specification Specification Specification Product Thickness Diameter 14 Specification Specification Specification Product Thickness Diameter 14 Specification			y & Engine	ering, Inc.				Country:	Dat	Ö.	Page		
besignation Material Delivery Description Unmersions Weight al Grade Spect. No. Code Product Thickness Diameter 1=1 2 3g 3b 4 Castings for valves flanges. from to to value g 2 2 3g 3b 4 Castings for valves flanges. from to to value g 2 2 3B 4 Castings for valves flanges. from to to value g 2 2 ASME SA-216 b) Castings for valves flanges. from to 2 1130 CCS, C12, CA15 ASME SA-217 b) Castings for valves flanges. flanges. flanges. flanges. flanges. flanges. flanges. g 1130 g 1130 g 2 1130 g 1130 g 1130 g 2 1130 g 1130	Manufactu	Street: City:	Street 3209					USA	7ev 20:	0 22-02-21	2 of 3	Compet	Competent Body of TUV SUD BABT Unlimited
Al Grade	No.	Material Designation	Mai	terial	Delivery	Description	Dim	ensions	_	Veight	Requir	ements	
Spec. No. Code		Material Grade	Speci	fication	Condition	Product	Thickness	Diameter	立		Technic	al Rules	Report no. C-72175567UK-22
COME COME Code)	•)		[mm]	_[mm]	2=kg				
CC-NICr15Fe			Spec.	No.	Code				←	value	Spec.	N _o	Remarks
LC-NICr15Fe DIN 17742 b) Castings for valves, flanges, fittings and other pressure containing parts CC5, C12, CA15 ASME SA-216 b) Castings for valves, flanges, fittings and other pressure containing parts CC5, C12, CA15 ASME SA-217 b) Castings for valves, flanges, fittings and other pressure containing parts CC5, C12, CA15 ASME SA-351 b) Castings for valves, flanges, fittings and other pressure containing parts CC6, C12, CA15 ASME SA-351 b) Castings for valves, flanges, flanges, fittings and other pressure containing parts CC7, CA6NM ASME SA-352 b) Castings for valves, flanges, flanges		2	3a	3b	4	5	Н	Н	8a	8b	9a	9b	10
ASTM A216 b) Castings for valves, flanges, fittings and other pressure containing parts CCF, C12, CA15 ASME A217 b) Castings for valves, flanges, flanges, fittings and other pressure containing parts CCF8, CF8A, ASTM A217 b) Castings for valves, flanges, flanges, fittings and other pressure containing parts CCF8, CF8A, ASTM A217 b) Castings for valves, flanges, flanges, fittings and other pressure containing parts CCASHNAN, ASTM A351 b) Castings for valves, flanges, flang		viCr15Fe (2.4816) LC-NiCr15Fe 2.4817)	DIN	17742	b)	Castings for valves, flanges, fittings and other pressure containing parts			2	200			*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a
CS, C12, CA15 ASME ASTM A217 B) Castings for valves, flanges, on, CG8M, CG8M, CG8M, CG8M, CG8M, CG8MMN, CG8MMN, ASTM A351 Castings for valves, flanges, fittings and other pressure containing parts Castings for valves, flanges, fittings and other pressure containing parts Castings for valves, flanges, fittings and other pressure containing parts Castings for valves, flanges, fittings and other pressure containing parts Castings D5, D5B ASTM ASTM ASTM ASTM A352 Castings Cu/Ni Castings Castings		VCA, WCB, WCC	ASME ASTM	SA-216 A216	b)	Castings for valves, flanges, fittings and other pressure containing parts			N	1130			Particular Material Appraisal (PMA) is mandatory.
CF8, CF8A, OCF8, CF8A, OCF8A, OCF8A, OCF8A, OCF8A, OCF8A, OCF8A, OCF8A, OCF8A, OCF8A, OCF8		NOS WOS WOJ OF C13 CN15	A CME	SA 247	7	Operation of the party of the p)	2			
CCF8, CF8A, ASME A351 b) Castings for valves, flanges, fittings and other pressure containing parts C10, 6A, CG68MMN, ASTM A351 b) Castings and other pressure containing parts C21, CA6NM ASME A352 b) Castings for valves, flanges, fittings and other pressure containing parts C21, CA6NM ASME A352 b) Castings for valves, flanges, fittings and other pressure containing parts C31, CA6NM ASME ASTM A352 b) Castings and other pressure containing parts C22, CA15 - Classes A, ASME A389 b) Castings C31, CA6NM ASTM A389 b) Castings C32, CA15 - Classes A, ASTM A489 b) Castings C31, CA6NM ASTM A389 b) Castings C32, CA15 - Classes A, ASTM A489 b) Castings C31, CA6NM ASTM A389 b) Castings C32, CA15 - Classes A, ASTM A489 b) Castings C32, CA15 - Classes A, ASTM A489 b) Castings C31, CA6NM ASTM A489 b) Castings C32, CA15 - Classes A, ASTM A489 b) Castings C31, CA6NM A389 b) Castings C31, CA6NM A389 b) Castings C32, CA15 - Classes A, ASTM A489 b) Castings C32, CA15 - Classes A, ASTM A489 b) Castings C32, CA15 - Classes A, ASTM A489 b) Castings C31, CA6NM A389 b) Castings and other pressure C41, CA15, CA			ASTM	A217	ţ	fittings and other pressure containing parts			1	-			b) Heat treatment condition according to mentioned
ASME ASTM ASSE SA-352 b) Castings for valves, flanges, fittings and other pressure containing parts ASTM ASTM A352 b) Castings and other pressure containing parts Cu/Ni Castings D5, D5B ASTM A439 b) Castings ASTM A439 b) Castings ASTM A439 b) Castings ASTM A487 b) Castings MV2M, CW12MW, ASME SA-487 b) Castings MV2M, CW12MW, ASME SA-494 b) Castings CUC, M25S Castings Castings Castings ASTM A494 b) Castings Castings ASTM A487 b) Castings AST):F3, CF3A, CF8M, CF8, CF8A,):F8C, CF3M, CF10M, CG8M, K3MCuN, CD4MCu, 6A, CG6MMN,	ASME ASTM	SA-351 A351	ь)	Castings for valves, flanges, fittings and other pressure containing parts			N	1130			otaliwaliwa
ASTM ASTM ASTM ASS2 b) Castings for valves, flanges, flan	C	F10SMnN, CG3M											
ASME SB-369 b) Cu/Ni Castings D5, D5B ASTM B369 b) Cu/Ni Castings D5, D5B ASTM A439 b) Castings ASTM A439 b) Castings ASTM A439 b) Castings MV2M, CW12MV, ASME A87 A87 b) Castings MV2M, CW12MV, ASME A87 A87 b) Castings MV35-1, M35-1 ASTM A487 b) Castings MV2MO, CY40 - ASTM A87 A87 b) Castings MV2MO, CY40 - ASME A494 b) Castings MV35-1, M35-1 ASTM A494 b) Castings MV35-		CA, LCB, LCC, LC1, CA6NM	ASME ASTM	SA-352 A352	b)	Castings for valves, flanges, fittings and other pressure containing parts			N	1130			
D5, D5B ASTM A439 b) Castings 2 2 2 2 2 2 2 2 2 2 2 2 2		INS C96200, C96400	ASME	SB-369 B369	ь)	Cu/Ni Castings			2	1130			
A3.487 b) Castings ASME SA.487 b) Castings ASTM A8TM A487 ASTM A8TM A487 Castings		12, D2B, D2C, D3, D5, D5B	ASTM	A439	b)	Castings			2	1130			
W2M, CW12MV, ASME SA.494 b) Castings 20MV, M35-1, M35-1 ACUC, M25S ACUC, M25S ACUC, M25S Castings Ca		A15M – Class A CA15 – Classes A, C, D CA6NM – Classes A, B	ASME ASTM	SA-487 A487	b)	Castings			2	1130			For the use of materials acc. to column 2 till 4 the regulations and limits of the respective
ution annealed NT = normalized and tempered N = normalized S = stress relieved TM = them normal and tempered CR = temperature controlled hot formed (controlled rolled) A = annealed / rial designation in column 10 b = condition in column 10 c = object in column 10 normal rolled roll		X2MW, CW6M, CW2M, CW12MW, W6MC, N7M, N12MV, M35-1, M35- , M30C, M30H, CZ100, CY40 – lasses 1, 2, CU5MCUC, M25S	ASME ASTM	SA-494 A494	b)	Castings			Ν	1130			Standards have to be observed. The specific material operating conditions have to be approved by the pressure equipment manufacturer or respectively by the Approved Body in charge.
	Explanation:		nalized and ter t = temperature 10 b = condit les e = weigh	mpererd N = e controlled ho in column tacc, to techn	normalized S = normalized S = 10 t formed (control 10 c = object in 10 c = tel 10 c = te	ved TM = thermo-mech. treatedA = annealed AR = as rolledreference column 10	U = not annealed						
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				7-1			H				
Name: Stainless Fou	Stainless Foundry & Engineering, Inc	eering, Inc	,,			Country:	Date:	ίń	Page		
Manufacturer: Street: 5110 North 35th Street City: Milwaukee, WI 53209	95th Street MI 53209					USA	rev. 0 2022-	rev. 0 2022-02-21	3 of 3	Compet	Competent Body of TUV SUD BABT Unlimited
No. Material Designation	3	Material	Delivery	Description	Dime	Dimensions	<	Weight	Requirements	ements	
Material Grade	Spe	Specification	Condition	Product	Thickness	Diameter	立		Technical Rules	al Rules	Report no. C-72175567UK-22
					[mṁ]	[mm]	2=kg				adica rorr-or-or
	Spec.	No.	Code		from to	from to	←	value	Spec.	No.	Remarks
1 2	3a	3b	4	5	6a 6b	7a 7b	8a	8b	9a	9b	10
13*) 1A, 2A, 2Q, 3A, 3Q, 7Q, 8Q, 13Q, 14Q	AS	A732	b)	Castings			2	1130			*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non
14*) CF3, CF3A, CF8M, CF8, CF8A, CF8C, CF3M, CF10M, CG8M,	ASTM	A733	b)	Castings			2	1130			designated standards a Particular Material Appraisal (PMA) is mandatory.
CK3MCuN, CD4MCu, 6A, CG6MMN CN7M, CN3MN, CA15, CF10, HK40, CF10SMnN, CG3M	,										
15*) CF3, CF3A, CF8M, CF8, CF8A,	ASTM	A744	b)	Castings			2	1130			b) Heat treatment condition
CN7M, CN3MN, CA15, CF10, HK40, CN7M, CN3MN, CA15, CF10, HK40, CF10SMnN, CG3M	, 40, ————										standards
16*) CB7Cu-1, CB7Cu-2 NiCr15Fe (2.4816) LC-NiCr15Fe (2.4817	ASTM	A747	b)	Castings			N	1130			
17*) A1Q (LCB), A2Q (LCC), E3N (CA6NM)	ASTM	A757	b)	Castings			N	1130			
18*) CD3MWCuN	ASME ASTM	SA-890 A890	b)	Castings			2	200			
19*) 1A, 1B, 2A, 3A, 4A, 5A, 6A	ASTM	A890	b)	Duplex Castings			N	1130			
20*) CW2M, CN3MCu	ASTM	A990	b)	Nickel Base Castings			N	1130			For the use of materials acc. to column 2 till
21*) 1B, 2A, 3A, 4A, 5A, 6A	ASTM	A995	р)	Duplex Castings			2	1130			the regulations and infins of the respective standards have to be observed. The specific material operating conditions
											have to be approved by the pressure equipment manufacturer or respectively by the Approved Body in charge.
Explanation: AT = solution annealed NT = normalized and tempered N = normalized S = stress relieved QT = quenched and tempered CR = temperature controlled hot formed (controlled rolled) A = a = material designation in column 10 b = condition in column 10 c = object in column 10 d = dimensions acc in temperature see = weight acc in technical rules as f = technical rules as		tempererd Nure controlled dition in colum	= normalized S: hot formed (control no 10 c = object in the control no contro	TM = thermo-mech. treated annealed AR = as rolled senace column 10	U = not annealed						
Created / revised: 2022-01-10				Approved: 202	Approved: 2022-01-10 W. Schock	ock					Page 3 of 3
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