



CERTIFICATE OF MATERIALS (PED-FOR VALVES)

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Abnahmeprüfzeugnis (EN 10204:2004 3.1)	Qualitätsmanagementsystemanerkennung Zeugnis-Nr. Quality management system approval Certificate-No.
Inspection Certificate (EN 10204:2004 3.1)	01 202 CHI/Q-09 0375

Besteller - Customer :		Nerezove Materialy s.r.o.				
Bestell-Nr.-Order-No.:		(Order-No)		(Date)		
		OV-1330/2019		MAY,27.2019		
Pruefgrundlage-Specification:		PED Annex I, Section 4 , 7 prEN 12516-1, EN 1559-2,				
Werkstoff-Material :		1.4408 EN 10213-4				
Wärmebehandlung-HeatTreatment:		1080°C/2h AT QW /Lösungsgegluth und in Wasser abgeschreckt 1080°C/2h AT QW /Solution annealing, quenched by water				
Kennzeichnung-Marking:		<ul style="list-style-type: none"> • Werkstoff-Grade of Material • Nennweite-Nominal Size • Nenndruck-Nominal Pressure • Schmelze-Nr.-Heat Number 				
		<ul style="list-style-type: none"> • CE-Zeichen / NB-CE-mark / NB • max. Temperatur-max appl. Temperature 				
• Content of delivery						
Pos.-Nr.	Stueckzahl	Gegenstand	DN	PN	Schmelze	Probe-Nr.
Item No.	Quantity(pcs)	Article			Nr. Heat No.	Specimen No.
1	300	2PC BALL VALVE FF	8	63	9B3/Q2	19TQ20
2	2000		15	63	9Q2/9B7/Q2/B7	19TQ20
3	300		20	63	9Q2/P13	19TQ20
4	600		25	63	9Q3/Q3	19TQ20
5	100		32	63	9P14/P14	19TQ20
6	300		50	63	9Q4/Q4	19TQ20
7	40		65	63	9Q4/Q4	19TQ20
8	20		80	63	9B6/B1	19TQ20
Ergebnis		Die gestellten Anforderungen sind laut Anlage 1 erfüllt.				
Result		The requirements are fulfilled, as listed in Annex 1.				



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Inspection Certificate (EN 10204:2004 3.1)	01 202 CHI/Q-09 0375

Anhang 1 : Ergebnis der Prüfungen (*Annex 1 : Test Results*)

A) Chemische Analyse / chemical analysis

Schmelze Nr.	Heat No.	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %
EN 10213-4:	>	0.07	1.50	1.50	0.040	0.030	18.00 20.00	2.00 2.50	9.00 12.00
1.4408	<								
9B3		0.053	0.508	0.815	0.0123	0.0122	18.086	2.077	9.035
9B7		0.055	0.501	0.813	0.0119	0.0120	18.104	2.087	9.086
B7		0.049	0.497	0.809	0.0124	0.0122	18.098	2.089	9.075
B1		0.043	0.513	0.812	0.0122	0.0126	18.093	2.093	9.085
9Q2		0.053	0.507	0.812	0.0119	0.0119	18.087	2.077	9.094
9Q3		0.051	0.502	0.811	0.0122	0.0125	18.102	2.096	9.094
Q2		0.045	0.511	0.855	0.0123	0.0121	18.096	2.099	9.102
Q3		0.051	0.511	0.808	0.0124	0.0119	18.094	2.069	9.095
Q4		0.050	0.509	0.805	0.0121	0.0118	18.085	2.069	9.090
9B6		0.048	0.504	0.814	0.0125	0.0121	18.095	2.091	9.084
9Q4		0.048	0.504	0.811	0.0125	0.0122	18.076	2.091	9.084
Q4		0.050	0.502	0.815	0.0123	0.0122	18.092	2.087	9.065
P13		0.052	0.504	0.810	0.0120	0.0124	18.084	2.091	9.072
P14		0.053	0.508	0.808	0.0124	0.0122	18.095	2.078	9.088
9P14		0.054	0.505	0.813	0.0123	0.0123	18.096	2.058	9.068
Probe Nr.	Prueftemp	Rp 0.2	Rp 1.0	Zugfestigkeit	Bruchdehnung	Härte	Kerbschlagbiege		
Specimen No.	TestTemp	Proof stress	Proof stress	Tensile Strength	Elongation	Hardness	Charpy Impact		
Nr./No	°C	N/mm2	N/mm2	N/mm2	%	HB	Joule @ -196°C		
EN 10213-4		> 185	> 210	440-640	> 30	130~200	>60		
1.4408									
19TQ20	RT	198	223	528	36	175	65		67



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Abnahmeprüfzeugnis (EN 10204:2004 3.1)	Qualitätsmanagementsystemanerkennung <i>Zeugnis-Nr.</i>
Inspection Certificate (EN 10204:2004 3.1)	<i>Quality management system approval Certificate-No.</i>
	01 202 CHI/Q-09 0375

C) Abmaßprüfung und ZfP / *Dimensional check and NDT*

- Prüfung / testing	Details / details	Ergebnis/ result
Besichtigung, Maßprüfung <i>Visual inspection & dimensional check</i>	(please check customer spec)	OK
Oberflächenrißprüfung, <i>Surface crack inspection</i>	(please check customer spec)	N/A
Durchstrahlungsprüfung, <i>Radiographic examination</i>	(please check customer spec)	N/A
Prüfung auf Beständigkeit gegen I.K. <i>Intergranular corrosion testing (ASTM A 262-91)</i>	<i>Waived by customer agreement</i>	N/A

D) Pressure / leak test according to ASME/ANSI B16.34 :

Pos.-Nr. <i>Item No.</i>	DN	PN	Pressure Test (bar)			Result
			HYDROSTATIC		AIR	
			SHELL	SEATS	SEATS	
1	8	63	94.50	69.3	7	OK
2	15	63	94.50	69.3	7	OK
3	20	63	94.50	69.3	7	OK
4	25	63	94.50	69.3	7	OK
5	32	63	94.50	69.3	7	OK
6	50	63	94.50	69.3	7	OK
7	65	63	94.50	69.3	7	OK
8	80	63	94.50	69.3	7	OK

E) Bemerkungen / Remarks : No CE Mark on valve size less than 1"(DN 25) as those valves are fall into Article 3.3. P.E.D. 97/23/EC

Lieferzustand / Delivery Condition: (~)Pickling

We hereby certify that material described above has been tested and complies with the terms of the order.



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<div style="border: 1px solid black; padding: 5px;"> • Content of delivery <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Pos.-Nr.</th> <th>Stueckzahl</th> <th>Gegenstand</th> <th>DN</th> <th>PN</th> <th>Schmelze</th> <th>Probe-Nr.</th> </tr> <tr> <th>Item No.</th> <th>Quantity(pcs)</th> <th>Article</th> <th></th> <th></th> <th>Nr. Heat No.</th> <th>Specimen No.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1000</td> <td>2PC BALL VALVE FF</td> <td>15</td> <td>63</td> <td>9Q2/9B7/Q2/B7</td> <td>19TQ20</td> </tr> <tr> <td>2</td> <td>200</td> <td></td> <td>20</td> <td>63</td> <td>9Q2/P13</td> <td>19TQ20</td> </tr> <tr> <td>3</td> <td>400</td> <td></td> <td>25</td> <td>63</td> <td>9Q3/Q3</td> <td>19TQ20</td> </tr> <tr> <td>4</td> <td>100</td> <td></td> <td>32</td> <td>63</td> <td>9P14/P14</td> <td>19TQ20</td> </tr> <tr> <td>5</td> <td>200</td> <td></td> <td>50</td> <td>63</td> <td>9Q4/Q4</td> <td>19TQ20</td> </tr> <tr> <td>6</td> <td>10</td> <td></td> <td>65</td> <td>63</td> <td>9Q4/Q4</td> <td>19TQ20</td> </tr> <tr> <td>7</td> <td>10</td> <td></td> <td>80</td> <td>63</td> <td>9B6/B1</td> <td>19TQ20</td> </tr> </tbody> </table> </div>							Pos.-Nr.	Stueckzahl	Gegenstand	DN	PN	Schmelze	Probe-Nr.	Item No.	Quantity(pcs)	Article			Nr. Heat No.	Specimen No.	1	1000	2PC BALL VALVE FF	15	63	9Q2/9B7/Q2/B7	19TQ20	2	200		20	63	9Q2/P13	19TQ20	3	400		25	63	9Q3/Q3	19TQ20	4	100		32	63	9P14/P14	19TQ20	5	200		50	63	9Q4/Q4	19TQ20	6	10		65	63	9Q4/Q4	19TQ20	7	10		80	63	9B6/B1	19TQ20
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Inspection Certificate (EN 10204:2004 3.1)	Quality management system approval Certificate-No.
	01 202 CHI/Q-09 0375

Anhang 1 : Ergebnis der Prüfungen (*Annex 1 : Test Results*)

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C) Abmaßprüfung und ZfP / Dimensional check and NDT						
- Prüfung / testing			Details / details		Ergebnis/ result	
Besichtigung, Maßprüfung Visual inspection & dimensional check			(please check customer spec)		OK	
Oberflächenrißprüfung, Surface crack inspection			(please check customer spec)		N/A	
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Prüfung auf Beständigkeit gegen I.K. Intergranular corrosion testing (ASTM A 262-91)			Waived by customer agreement		N/A	
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4	32	63	94.50	69.3	7	OK
5	50	63	94.50	69.3	7	OK
6	65	63	94.50	69.3	7	OK
7	80	63	94.50	69.3	7	OK

E) Bemerkungen / Remarks : No CE Mark on valve size less than 1"(DN 25) as those valves are fall into Article 3.3. P.E.D. 97/23/EC

Lieferzustand / Delivery Condition: (~)Pickling

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