

MATERIAL TEST RESULTS

KESKIN MERKANTA S.r.o.
 P.O.No.: kontrakt ZVC/AMO 8-90
 Job No.: 4337206/1 01 0157
 VALVE No.: 0001 - 0128

Reviewed by *Alois Štěpán*
 Class 150 Globe stop valve
 Name of Valve: RF WCB/13 CR-HF

SHEET No. 1 2/1
 DATE: 6.9.1993
 We hereby certify, that the materials herein described are satisfactory in accordance with the specification
 ing. Alois Štěpán
 QC Manager
 MERKANTA spol.s.r.o.
 Rybářská 447-740 OT PRAHA
 Size: 3" Material: A 216 WCB
 -25-

Element %	C		SI		Mn		P		S		NI		CR		NO		Cu		Name of Parts
	x 100	MAX	x 100	MAX	x 100	MAX	x 10000	MAX	x 10000	MAX	x 100	MAX	x 100	MAX	x 10000	MAX	x 100	MAX	
Charge No.	30		60		100		40		45										
52879	23	41	104	19	16	7	11	30	14	Body:									
52917	25	44	108	23	17	7	11	30	14	Body									
52918	24	44	102	28	20	7	11	40	13	Body									
32614	25	40	100	27	18	7	9	20	14	Body									
52871	22	38	102	25	18	7	11	30	11	Body									
52804	22	43	106	25	18	9	12	20	12	Body									
52814	24	28	97	22	18	8	11	20	13	Body									
32578	21	42	97	22	19	8	38	50	13	Body									
52802	19	41	103	21	15	8	32	20	10	Body									
52864	20	42	103	23	18	6	22	30	12	Body									

Item	Tension Test		Tensile str.	Yield str.	Elongation %	Reduction %	Hardness Brinell	Bend Test Angle	Charpy Impact Test Test Piece	Test Temp.	Heat Treatment
	Test G. L.	Place D I A									
Charge No.	30	60	485	352	22.0	33.0					
52879	50.0	12.5	509	325	30.0	61.5				940 - 960°C x 4 h	
52917	50.0	12.5	548	344	30.4	51.0				"	
52918	50.0	12.5	541	344	24.4	49.6				"	
32614	50.0	12.5	541	331	24.0	45.2				"	
52871	50.0	12.5	509	318	33.2	60.3				"	
52804	50.0	12.5	535	337	27.0	43.8				"	
52814	50.0	12.5	522	331	24.0	46.7				"	
32578	50.0	12.5	522	331	25.0	48.1				"	
52802	50.0	12.5	509	318	26.8	52.3				"	
52864	50.0	12.5	509	318	28.8	52.3				"	

Remark:

MATERIAL TEST RESULTS

SHEET No. 1 2/2
 DATE: 6.9.1993
 No hereby certify, that the materials herein described are satisfactory in accordance with the specification ing. Alois Štěpán
 MERKANTA spol.s r.o.
 R/Bořitský 44, 746 01 OPAVA
 -25-

MESSRS MERKANTA S.r.o.
 P.O.No.: kontrakt ZV/AMO 8-90
 JUS No.: 4337206/1 01 0157
 VALVE No.: 0001 - 0128
 ITEM No.:

Reviewed by *M. Štěpán*
 Class 150 Globe stop valve
 RF WCB/13 CR-HF
 Name of Valve:

QC Manager *Alois Štěpán*
 Size: 3" Material: A 216 WCB

Element %	C		SI		Mn		P		S		NI		CR		NO		Cu		Name of Parts
	x 100	MAX	x 100	MAX	x 100	MAX	x 1000	MAX	x 1000	MAX	x 100	MAX	x 100	MAX	x 1000	MAX	x 100	MAX	
42837	23	45	103	21	15	7	10	20	19	Body									
32637	22	44	105	18	13	6	8	20	12	Body									
32659	22	35	99	19	21	9	12	30	17	Body									
52886	23	35	101	24	18	6	14	20	12	Body									
32661	20	36	105	22	16	6	36	20	10	Body									
52876	24	41	102	26	16	6	9	20	10	Body									
52881	23	30	101	18	13	6	15	40	10	Body									
42731	23	40	102	23	17	7	14	20	12	Body									
32652	23	44	102	24	16	6	11	30	10	Body									
42790	22	40	98	25	17	6	13	20	11	Body									

Item	Tension Test		Tensile str.	Yield str.	Elongation %	Reduction %	Hardness Brinell	Bond Test Angle	Charpy Impact Test Test Piece	Charpy Impact Test Test Temp.	Heat Treatment
	Test G. L.	Place D 1 A									
42837	50.0	12.5	548	337	24.8	59.0				940 - 960°C x 4 h	
32637	50.0	12.5	497	331	30.0	62.7				"	
32659	50.0	12.5	509	331	33.0	55.1				"	
52886	50.0	12.5	497	312	31.2	61.5				"	
32661	50.0	12.5	509	318	27.0	60.3				"	
52876	50.0	12.5	509	306	28.2	53.7				"	
52881	50.0	12.5	497	312	28.4	55.1				"	
42731	50.0	12.5	522	325	26.6	53.7				"	
32652	50.0	12.5	535	331	33.8	60.3				"	
42790	50.0	12.5	509	318	26.4	60.3				"	

Notes: