Certificate No.: 220527165435797

TÜRK LOYDU

TYPE APPROVAL CERTIFICATE

This is to certify that the

EJECTOR

Manufacturer	SOY TEKNİK ENDÜSTRİYEL MALZEMELERİ SANAYİ VE TİCARET A.Ş.
Address	İMES OSB 9. Cadde No:37 Dilovası / Kocaeli
Product Type	Various type of ejectors
Particulars / Designation	See Appendix 1
Application	The ejectors may be used for the following service; steam, hot water, sea water, air and other neutral fluids
Reference Rule	TL Rules, Part E, Chapter 103 - Metallic Materials, Special Materials for Naval Ships January 2006 TL Rules, Part E, Chapter 107 - Naval Ship Technology, Ship Operation Installations and Auxiliary System January 2016 TL Rules, Part A, Chapter 2, Material January 2021 TL Rules, Part B, Chapter 4, Machinery January 2021
Place and Date	İSTANBUL / 27.05.2022

Subject to the conditions referred to in the following pages, this certificate is valid until 26.05.2027.

Emrah SÖĞÜTÇÜ

New Building Division Manager

127980

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Product Details:

See Appendix 1

Application / Limitation (Approval Conditions):

1- All gasket and parts of valves not to be contain asbestos.
2- The ejectors are to be installed according to manufacturer's instructions and Türk Loydu rules.

Documentation:

- PAE-EPAS/011852/21-2372/VA dated 16.02.2022

Performed Tests: Following tests were carried out with satisfactory results.

- Physical and chemical test.
- Dimension inspection.
- Function & performance tests.
- Hydrostatic pressure test
- Visual inspection.

Surveyor Name: Caner COŞKUN

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Appendix 1

1 ½" x 2" x 2½" HIGH PRESSURE EJECTOR							
DRIVING WATER PRESSURE	SUCTION LIFT	DRIVING WATER CONSUMPTION	DELIVERY HEAD				SUCTION CAPACITY
			5M	10M	15M	20M	
3 BAR	3M	5,9 m³/h	6 m³/h				
4 BAR		7,3 m³/h	10,4 m³/h	3,3 m³/h			
5 BAR		8,6 m³/h	13 m³/h	7,3 m³/h			
6 BAR		9,4 m³/h		12 m³/h	3,3 m³/h		
7 BAR		10,3 m³/h		13 m³/h	8 m³/h	1,2 m³/h	
8 BAR		10,9 m³/h			12 m³/h	5 m³/h	
3 BAR	5M	5,9 m³/h	3,5 m³/h				
4 BAR		7,3 m³/h	8,1 m³/h				
5 BAR		8,6 m³/h	10,3 m³/h	4,8 m³/h			
6 BAR		9,4 m³/h		9,2 m³/h	1,3 m³/h		
7 BAR		10,3 m³/h		10,3 m³/h	5,7 m³/h		
8 BAR		10,9 m³/h			9,4 m³/h	2,3 m³/h	
3 BAR	7M	5,9 m³/h					
4 BAR		7,3 m³/h	5,8 m³/h				
5 BAR		8,6 m³/h	7 m³/h	1,6 m³/h			
6 BAR		9,4 m³/h		6 m³/h			
7 BAR		10,3 m³/h		7 m³/h	3,5 m³/h		
8 BAR		10,9 m³/h			6,3 m³/h	0,7 m³/h	
3 BAR	9M	5,9 m³/h					
4 BAR		7,3 m³/h	2,5m³/h				
5 BAR		8,6 m³/h	5 m³/h				
6 BAR		9,4 m³/h		3 m³/h			
7 BAR		10,3 m³/h		5 m³/h			
8 BAR		10,9 m³/h			3,2 m³/h		

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2" x 3" x 3" HIGH PRESSURE EJECTOR							
DRIVING WATER PRESSURE	SUCTION LIFT	DRIVING WATER CONSUMPTION	DELIVERY HEAD				SUCTION CAPACITY
			5M	10M	15M	20M	
3 BAR	3M	27,5 m³/h	17,8 m³/h				
4 BAR		30,5 m³/h	30,8 m³/h	8 m³/h			
5 BAR		32 m³/h	36,3 m³/h	18,7 m³/h			
6 BAR		33,5 m³/h		28,9 m³/h	12,3 m³/h		
7 BAR		35 m³/h		36,3 m³/h	25,8 m³/h	4,1 m³/h	
8 BAR		37 m³/h			31,3 m³/h	14,8 m³/h	
3 BAR	5M	27,5 m³/h	10,5 m³/h				
4 BAR		30,5 m³/h	20,9 m³/h	3,2 m³/h			
5 BAR		32 m³/h	27,8 m³/h	13,2 m³/h			
6 BAR		33,5 m³/h		25,4 m³/h	6,8 m³/h		
7 BAR		35 m³/h		27,8 m³/h	17,2 m³/h		
8 BAR		37 m³/h			27,8 m³/h	9,2 m³/h	
3 BAR	7M	27,5 m³/h	6,8 m³/h				
4 BAR		30,5 m³/h	14,8 m³/h				
5 BAR		32 m³/h	22,8 m³/h	9,8 m³/h			
6 BAR		33,5 m³/h		17,8 m³/h			
7 BAR		35 m³/h		22,8 m³/h	13,5 m³/h		
8 BAR		37 m³/h			18,5 m³/h	8,6 m³/h	
3 BAR	9M	27,5 m³/h					
4 BAR		30,5 m³/h	8,6 m³/h				
5 BAR		32 m³/h	11,1 m³/h				
6 BAR		33,5 m³/h	12,9 m³/h	7,4 m³/h			
7 BAR		35 m³/h		11,7 m³/h			
8 BAR		37 m³/h		12,9 m³/h	9,2 m³/h		

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2 1/2" x 2 1/2" x 3" HIGH PRESSURE EJECTOR							
DRIVING WATER PRESSURE	SUCTION LIFT	DRIVING WATER CONSUMPTION	DELIVERY HEAD				SUCTION CAPACITY
			5M	10M	15M	20M	
3 BAR	3M	30,5 m³/h	26,7 m³/h				
4 BAR		33,5 m³/h	32,8 m³/h	19,9 m³/h			
5 BAR		35 m³/h	49,7 m³/h	29,5 m³/h			
6 BAR		36,5 m³/h		42,4 m³/h	20,5 m³/h		
7 BAR		38 m³/h		49,7 m³/h	34 m³/h	9 m³/h	
8 BAR		40 m³/h			43,9 m³/h	27,9 m³/h	
3 BAR	5M	30,5 m³/h	15 m³/h				
4 BAR		33,5 m³/h	28,4 m³/h	13,5 m³/h			
5 BAR		35 m³/h	39,6 m³/h	23 m³/h			
6 BAR		36,5 m³/h		34,7 m³/h	13,8 m³/h		
7 BAR		38 m³/h		39,6 m³/h	26 m³/h		
8 BAR		40 m³/h			35,9 m³/h	21,1 m³/h	
3 BAR	7M	30,5 m³/h	9,7 m³/h				
4 BAR		33,5 m³/h	22,8 m³/h				
5 BAR		35 m³/h	26 m³/h	18,5 m³/h			
6 BAR		36,5 m³/h	33,3 m³/h	26 m³/h			
7 BAR		38 m³/h		33,3 m³/h	19,3 m³/h		
8 BAR		40 m³/h			26,8 m³/h	12,8 m³/h	
3 BAR	9M	30,5 m³/h					
4 BAR		33,5 m³/h	10,2 m³/h				
5 BAR		35 m³/h	14,7 m³/h	4,7 m³/h			
6 BAR		36,5 m³/h	18,7 m³/h	10,6 m³/h			
7 BAR		38 m³/h		18,7 m³/h	5,3 m³/h		
8 BAR		40 m³/h			10,6 m³/h		

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3" x 4" x 4" HIGH PRESSURE EJECTOR							
DRIVING WATER PRESSURE	SUCTION LIFT	DRIVING WATER CONSUMPTION	DELIVERY HEAD				SUCTION CAPACITY
			5M	10M	15M	20M	
3 BAR	3M	42 m³/h	30,1 m³/h				
4 BAR		48 m³/h	55,9 m³/h	7,1 m³/h			
5 BAR		51,6 m³/h	71 m³/h	38,7 m³/h			
6 BAR		55,8 m³/h		62 m³/h	16,8 m³/h		
7 BAR		58 m³/h		71 m³/h	42,6 m³/h	7,1 m³/h	
8 BAR		61 m³/h			64,5 m³/h	29 m³/h	
3 BAR	5M	42 m³/h	16,6 m³/h				
4 BAR		48 m³/h	47,3 m³/h	3,1 m³/h			
5 BAR		51,6 m³/h	57,3 m³/h	19,6 m³/h			
6 BAR		55,8 m³/h		50,4 m³/h	6,2 m³/h		
7 BAR		58 m³/h		57,3 m³/h	28,2 m³/h		
8 BAR		61 m³/h			49,5 m³/h	12 m³/h	
3 BAR	7M	42 m³/h	5,3 m³/h				
4 BAR		48 m³/h	32,5 m³/h				
5 BAR		51,6 m³/h	44,8 m³/h	11,2 m³/h			
6 BAR		55,8 m³/h		32,9 m³/h			
7 BAR		58 m³/h		44,8 m³/h	14,7 m³/h		
8 BAR		61 m³/h			37,8 m³/h	4 m³/h	
3 BAR	9M	42 m³/h					
4 BAR		48 m³/h	8,2 m³/h				
5 BAR		51,6 m³/h	16 m³/h	3 m³/h			
6 BAR		55,8 m³/h	21,6 m³/h	14,1 m³/h			
7 BAR		58 m³/h		21,6 m³/h			
8 BAR		61 m³/h			13,6 m³/h		

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4" x 5" x 5" HIGH PRESSURE EJECTOR

DRIVING WATER PRESSURE	SUCTION LIFT	DRIVING WATER CONSUMPTION	DELIVERY HEAD					SUCTION CAPACITY
			5M	10M	15M	20M	25M	
3 BAR	3M	57 m³/h	36,9 m³/h					
4 BAR		64,8 m³/h	71,5 m³/h	33,8 m³/h				
5 BAR		75,6 m³/h	90,5 m³/h	43,7 m³/h				
6 BAR		79,8 m³/h		78,3 m³/h	41,8 m³/h			
7 BAR		82,8 m³/h		90,5 m³/h	61,5 m³/h	26,1 m³/h		
8 BAR		88,2 m³/h			83 m³/h	48 m³/h	16 m³/h	
3 BAR	5M	57 m³/h	27,7 m³/h					
4 BAR		64,8 m³/h	65,4 m³/h	15,7 m³/h				
5 BAR		75,6 m³/h	76,3 m³/h	36,2 m³/h				
6 BAR		79,8 m³/h		63,3 m³/h	28,9 m³/h			
7 BAR		82,8 m³/h		76,3 m³/h	49,8 m³/h	17,2 m³/h		
8 BAR		88,2 m³/h			68,5 m³/h	41,8 m³/h	5,5 m³/h	
3 BAR	7M	57 m³/h	8 m³/h					
4 BAR		64,8 m³/h	39,5 m³/h	2,5 m³/h				
5 BAR		75,6 m³/h	58,1 m³/h	24,6 m³/h				
6 BAR		79,8 m³/h		48,4 m³/h	5,5 m³/h			
7 BAR		82,8 m³/h		56,2 m³/h	27 m³/h	2,1 m³/h		
8 BAR		88,2 m³/h			51,8 m³/h	28 m³/h		
3 BAR	9M	57 m³/h						
4 BAR		64,8 m³/h	28,2 m³/h					
5 BAR		75,6 m³/h	36,5 m³/h	15,1 m³/h				
6 BAR		79,8 m³/h		28,6 m³/h	2 m³/h			
7 BAR		82,8 m³/h		36,5 m³/h	8,3 m³/h			
8 BAR		88,2 m³/h			22,8 m³/h	8,3 m³/h		

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5" x 6" x 6" HIGH PRESSURE EJECTOR

DRIVING WATER PRESSURE	SUCTION LIFT	DRIVING WATER CONSUMPTION	DELIVERY HEAD						SUCTION CAPACITY
			5M	10M	15M	20M	25M	30M	
3 BAR	3M	91,8 m³/h	83 m³/h	9,2 m³/h					
4 BAR		102 m³/h	114 m³/h	48,9 m³/h					
5 BAR		112,2 m³/h		93,5 m³/h	38,1 m³/h				
6 BAR		123,6 m³/h		114 m³/h	85 m³/h	23,4 m³/h			
7 BAR		130,2 m³/h			114 m³/h	64,5 m³/h	15,4 m³/h		
8 BAR		141 m³/h				98,4 m³/h	49,8 m³/h	8,9 m³/h	
3 BAR	5M	91,8 m³/h	60,9 m³/h						
4 BAR		102 m³/h	86,1 m³/h	41,2 m³/h					
5 BAR		112,2 m³/h	98,2 m³/h	81,1 m³/h	20,6 m³/h				
6 BAR		123,6 m³/h		98,2 m³/h	69,5 m³/h	14,8 m³/h			
7 BAR		130,2 m³/h			98,2 m³/h	54,8 m³/h	6,2 m³/h		
8 BAR		141 m³/h				86,1 m³/h	45,5 m³/h		
3 BAR	7M	91,8 m³/h	25 m³/h						
4 BAR		102 m³/h	65,8 m³/h	31 m³/h					
5 BAR		112,2 m³/h	76,4 m³/h	65,2 m³/h	6,2 m³/h				
6 BAR		123,6 m³/h		76,4 m³/h	54 m³/h	3,1 m³/h			
7 BAR		130,2 m³/h			76,4 m³/h	44,3 m³/h			
8 BAR		141 m³/h				62,1 m³/h	40 m³/h		
3 BAR	9M	91,8 m³/h	20,9 m³/h						
4 BAR		102 m³/h	39,4 m³/h	9,8 m³/h					
5 BAR		112,2 m³/h	46,4 m³/h	39,4 m³/h					
6 BAR		123,6 m³/h		46,4 m³/h	31,4 m³/h				
7 BAR		130,2 m³/h			35,7 m³/h	28,3 m³/h			
8 BAR		141 m³/h			46,4 m³/h	36,3 m³/h			

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3" x 3" x 4" LOW PRESSURE EJECTOR

DRIVING WATER PRESSURE	SUCTION LIFT	DRIVING WATER CONSUMPTION	DELIVERY HEAD						SUCTION CAPACITY
			5M	10M	15M	20M	25M	30M	
1,5 BAR	3M	42,6 m³/h	6,5 m³/h						
2 BAR		46,2 m³/h	19,4 m³/h						
2,5 BAR		50,4 m³/h	28,3 m³/h	6,8 m³/h					
3 BAR		54,6 m³/h		16 m³/h					
3,5 BAR		56,4 m³/h		24 m³/h	7,4 m³/h				
4 BAR		58,2 m³/h		28,3 m³/h	15,7 m³/h	8,9 m³/h			
4,5 BAR		59,7 m³/h			23 m³/h	14,8 m³/h			
5 BAR		61,2 m³/h			28,3 m³/h	22,4 m³/h	1,8 m³/h		
5,5 BAR		63 m³/h				28,3 m³/h	9,5 m³/h		
6 BAR		64,8 m³/h					16 m³/h	3,7 m³/h	
1,5 BAR	5M	44,9 m³/h	3,4 m³/h						
2 BAR		49,2 m³/h	17,8 m³/h						
2,5 BAR		52,2 m³/h	23 m³/h	6,1 m³/h					
3 BAR		55,2 m³/h	24 m³/h	14,1 m³/h					
3,5 BAR		57,6 m³/h		21,5 m³/h	5,5 m³/h				
4 BAR		60 m³/h		24 m³/h	12,9 m³/h				
4,5 BAR		61,2 m³/h			21,5 m³/h	7,4 m³/h			
5 BAR		62,4 m³/h			24 m³/h	12,6 m³/h			
5,5 BAR		63,9 m³/h				20,6 m³/h	7,7 m³/h		
6 BAR		65,4 m³/h				24 m³/h	14,5 m³/h		
1,5 BAR	7M	47,4 m³/h	20,6 m³/h						
2 BAR		52,8 m³/h		11 m³/h					
2,5 BAR		55,8 m³/h		17,8 m³/h					
3 BAR		58,7 m³/h		18,5 m³/h	9,9 m³/h				
3,5 BAR		60,6 m³/h		20,6 m³/h	17,2 m³/h	3 m³/h			
4 BAR		62,4 m³/h			18,5 m³/h	12,3 m³/h			
4,5 BAR		63 m³/h			20,6 m³/h	18,5 m³/h	5,8 m³/h		
5 BAR		63,6 m³/h				20,6 m³/h	11,8 m³/h		
5,5 BAR		64,8 m³/h					18,5 m³/h	6,2 m³/h	
6 BAR		66 m³/h					20,6 m³/h	14,1 m³/h	

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4" x 4" x 5" LOW PRESSURE EJECTOR

DRIVING WATER PRESSURE	SUCTION LIFT	DRIVING WATER CONSUMPTION	DELIVERY HEAD						SUCTION CAPACITY
			5M	10M	15M	20M	25M	30M	
1,5 BAR	3M	70,5 m³/h	18,5 m³/h						
2 BAR		77,4 m³/h	37,5 m³/h	6,2 m³/h					
2,5 BAR		80,7 m³/h	42,1 m³/h	22,2 m³/h					
3 BAR		84 m³/h		34,5 m³/h	9,5 m³/h				
3,5 BAR		87 m³/h		42,1 m³/h	23,4 m³/h				
4 BAR		93 m³/h			33,8 m³/h	11,4 m³/h			
4,5 BAR		95,4 m³/h			41,2 m³/h	24,6 m³/h			
5 BAR		97,8 m³/h			42,1 m³/h	32 m³/h	13,8 m³/h		
5,5 BAR		102,2				42,1 m³/h	23,7 m³/h	4,6 m³/h	
6 BAR		106,5 m³/h					35 m³/h	17,5 m³/h	
1,5 BAR	5M	74,1 m³/h	15,4 m³/h						
2 BAR		80,4 m³/h	30,5 m³/h						
2,5 BAR		83,7 m³/h	35,7 m³/h	17,2 m³/h					
3 BAR		87 m³/h		29,5 m³/h	6,8 m³/h				
3,5 BAR		90,8 m³/h		35,7 m³/h	20,5 m³/h				
4 BAR		94,5 m³/h			28,9 m³/h	7,7 m³/h			
4,5 BAR		96,8 m³/h			34,5 m³/h	18,5 m³/h			
5 BAR		99 m³/h			35,7 m³/h	31,4 m³/h	10,8 m³/h		
5,5 BAR		103,5 m³/h				35,7 m³/h	21,2 m³/h		
6 BAR		108 m³/h					32,2 m³/h	14,8 m³/h	
1,5 BAR	7M	75,6 m³/h	11,7 m³/h						
2 BAR		81 m³/h	25,8 m³/h						
2,5 BAR		84,6 m³/h	28,3 m³/h	14,1 m³/h					
3 BAR		88,2 m³/h		24 m³/h					
3,5 BAR		91,8 m³/h		27 m³/h	18,5 m³/h				
4 BAR		95,4 m³/h		28,3 m³/h	26,8 m³/h	7,4 m³/h			
4,5 BAR		98,7 m³/h			28,3 m³/h	17,5 m³/h			
5 BAR		102 m³/h				25,2 m³/h	9,8 m³/h		
5,5 BAR		105,9 m³/h				28,3 m³/h	19 m³/h		
6 BAR		109,8 m³/h					28,3 m³/h	10,5 m³/h	

Surveyor Name: Caner COŞKUN

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