

# Type Approval Certificate

Germanischer Lloyd



Certificate No.: TA10-CRT-001/TA

Germanischer Lloyd

It is hereby to certify that undemoted product has been tested in accordance with the relevant requirements of the GL Type Approval System

## Company:

**Nar Foam Kar Co.**

*No. 18, 4<sup>th</sup> st. Shahid Ahmad Ghasir Ave.  
Tehran- IRAN*

## Product:

**CO<sub>2</sub> Fire Extinguishing System And Components**

The product has been subject to an approval procedure by Germanischer Lloyd and found to be in compliance with NFPA code namely on:

- NFPA 12 Standard on Carbon Dioxide Extinguishing System
- NFPA 72 National Fire Alarm Code

GL performed a verification and approval on basis of the submitted documents:

NFK-DWG-5601-ME-001 Installation and Operating Manual & Drawings for CO<sub>2</sub> Systems

Design and performance – concerning Technical safety- is in line with Germanischer Lloyd Rules for Classification and Construction, IV Part 6 Offshore Technology, Section 10 and the findings are implemented as follow:

- 1) Welded pipe connections are used for CO<sub>2</sub> and gaseous extinguishing systems. For detachable connections which can not be avoided and for valves and fittings, flanged joints are used. For pipe with a nominal bore of less than 50 mm, welded compression type couplings may be used. Threaded joints may be used only inside protected spaces.
- 2) Materials, Testing and wall thickness complies with GL rule IV Part 6.
- 3) Pressure and tightness and free passage test results comply with GL rule IV, Part 6 section 13a-13c

Remarks: See Page 2



Valid Until: 05.02.2015

Tehran,  
05.02.2010



M.R. Talebi

H. Sadeghi

INDUSTRIAL SERVICES

202319



# Type Approval Certificate

Germanischer Lloyd

It is hereby to certify that undermoted product has been tested in accordance with the relevant requirements of the GL Type Approval System according to page1.

**Product:** CO<sub>2</sub> Fire Extinguishing System And Components

List of equipments:

Item No.	Description	Code
1	Co2 cylinder, 45 kg, 67 liter	211022
2	Base of skid	215001
3	Head of skid(2 cylinder to 5 cylinder)	215011-14
4	Bracket of skid(2 cylinder to 5 cylinder)	215021-24
5	Manifold (size 3/4 "-2 1/2 ")	
6	Weighing device	216002
7	Ring of weighing device for master cylinder	216047
8	Ring of weighing device for slave cylinder	216045
9	Master valve	B0439
10	Slave valve	B04800
11	Pneumatic actuator for slave valve	B0442
12	Directional valve(3/4" to 2.5")	212040-44
13	Electro/manual actuator for directional valve	212050
14	Discharge bend 1/2"	213010&213169
15	Actuation bend 1/4"	213020&213170
16	Check valve 1/2", brass	212060
17	Master connection	216051
18	Micro switch	205001
19	Pressure switch	216024
20	Vent valve	216036
21	Safety valve 1/2"	216038
22	Nipple 1/4, brass	213022
23	Tee 1/4", brass	213027
24	Plug 1/4", brass	216050
25	Red nipple 1/4"x1/8", brass	213026
26	Nozzle cup	216001
27	Nozzle orifice brass	216056

Valid Until: 05.02.2015

Tehran,  
05.02.2010



M.R.Talebi

INDUSTRIAL SERVICES  
20239

H.Sadeghi