

NEGAHBAN

NEGAHBAN FIRE & SAFETY Co. Ltd.



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About us:

Negahban Fire & Safety Co. established in 1981 as the first Iranian manufacturer and supplier of industrial firefighting equipment. Since then it has developed continuously and become one of the most reputable Iranian firefighting companies in the field of oil, gas and petrochemical industries.

Along with domestic manufacturing, Negahban has been in connection with international companies able to supply wide range of firefighting products for oil industry.

As the old member of Society of Iranian Petroleum Industries Equipment Manufacturers (S.O.P.I.E.M), Negahban is now included in the approved vendor list of the most renowned contractors and end user companies.

Negahban as the pioneer and knowledge enterprise company is honored that its products have been installed in most sites and plants in Iran. Satisfaction of clients during the years has caused Negahban to move forward manufacture updated firefighting products and give excellent after sales service.

CONTENTS

04-11 HYDRANT & VALVE

12-13 MONITORS

14-15 SPRAY NOZZLES & NOZZLES

16-17 AUTOMATIC FIRE SUPPRESSION SYSTEM

17-20 FOAM SYSTEMS

21-22 SAFETY SHOWER & EYE WASH / SAFETY EYEWASH

23 ADAPTOR & COUPLING

24 HOSE BOX & HOSE REEL

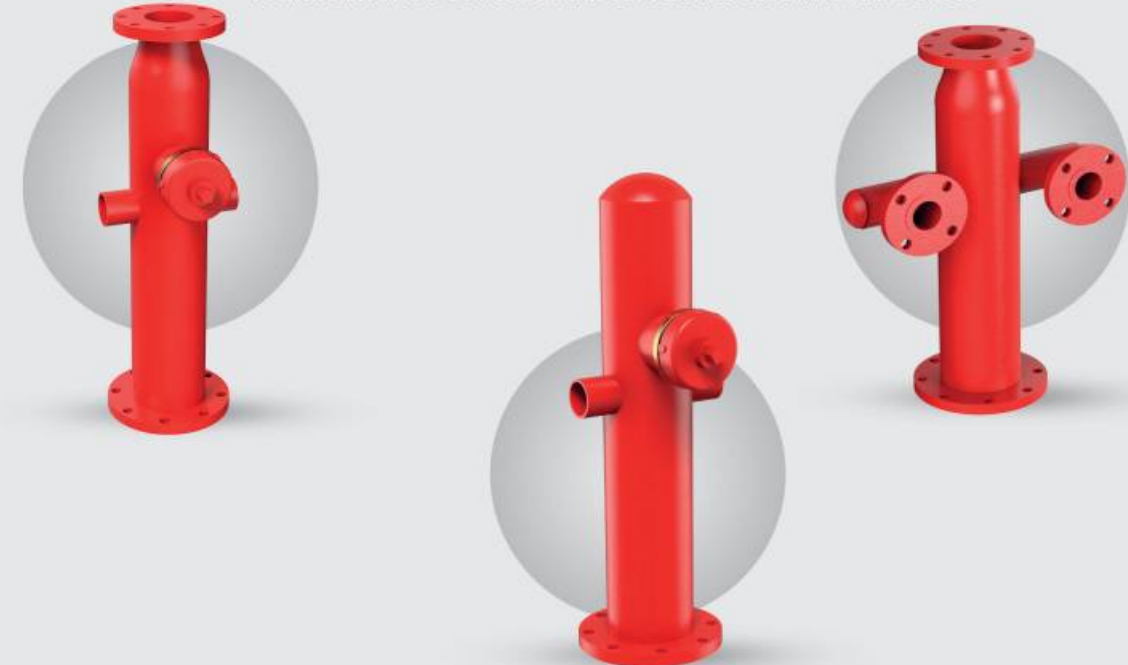
25-26 SUPPLYING ITEMS

FIRE WATER HYDRANTS

PILLAR HYDRANT (NF-H5)

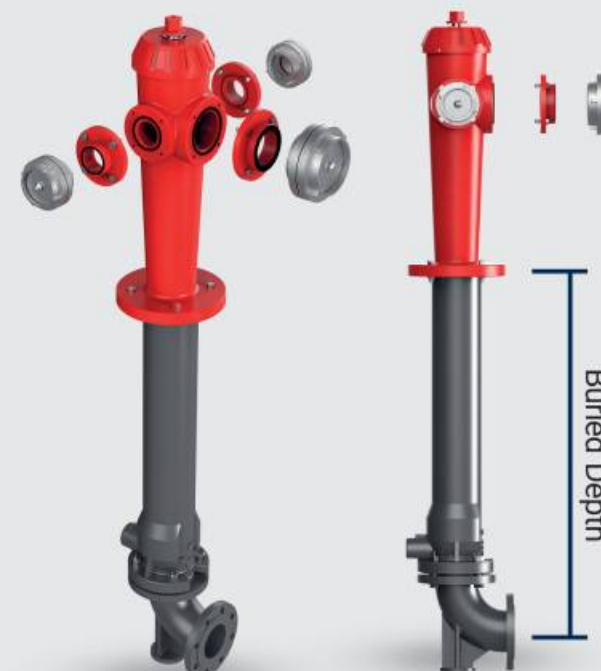
MATERIAL:	CARBON STEEL / STAINLESS STEEL / GALVANIZED STEEL
FABRICATION METHOD:	WELDING
INLET/ OUTLETS:	AS PER ORDER

*: OTHER SIZES AND SPECIFICATION CAN BE FOLLOWED RECEIVING CLIENT ORDER



DRY BARREL HYDRANT (NF-H1-D)

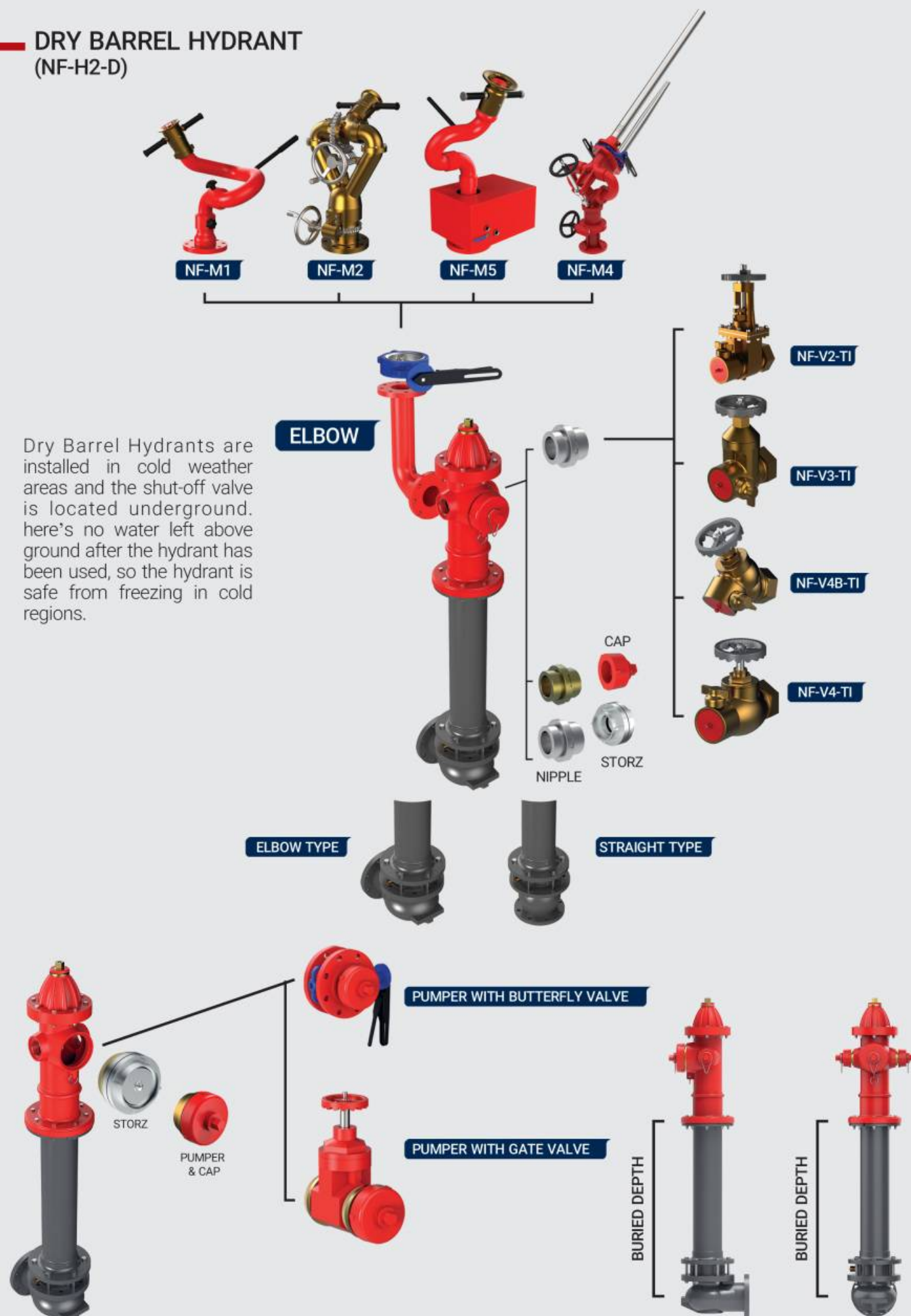
Dry Barrel Hydrants are installed in cold weather areas and the shut-off valve is located underground. here's no water left above ground after the hydrant has been used, so the hydrant is safe from freezing in cold regions.



ITEM:	SIZE:	TECHNICAL DATA/MATERIAL
NF-H1	3" / 4"	CAST IRON (C.I) DUCTILE IRON(D.I)
BURIED DEPTH:	*****	
OUTLET: STORZ	2 1/2"	ALUMINUM
PUMPER CONNECTION: STORZ	4"	ALUMINUM
BASE SHOE:	ELBOW TYPE	STRAIGHT TYPE

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DRY BARREL HYDRANT (NF-H2-D)

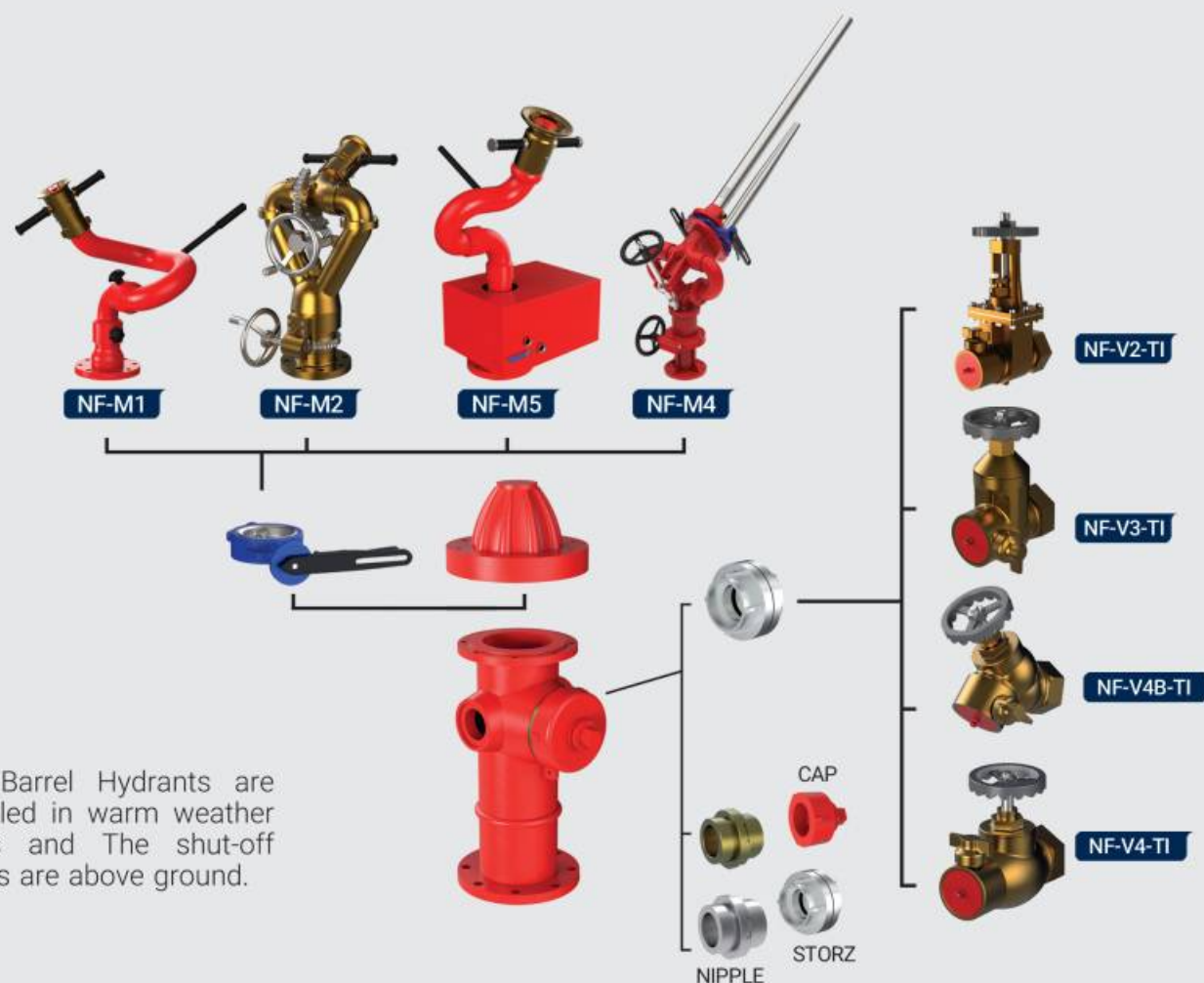


Dry Barrel Hydrants are installed in cold weather areas and the shut-off valve is located underground. here's no water left above ground after the hydrant has been used, so the hydrant is safe from freezing in cold regions.

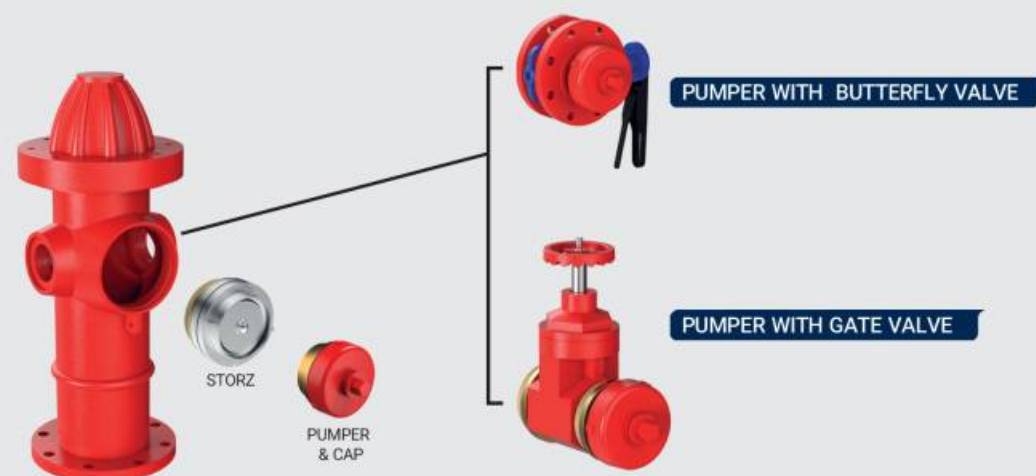
ITEM:	SIZE:	TECHNICAL DATA/MATERIAL
NF-H2	4" 6"	CAST IRON DUCTILE IRON
BURIED DEPTH:		
OUTLET: NF-V2-TI NF-V3-TI NF-V4-TI NF-V4B-TI CAP STORZ		REFER TO PAGE 09-10 REFER TO PAGE 09-10 REFER TO PAGE 09-10 REFER TO PAGE 09-10 FEMALE THREAD ALUMINUM
MONITOR: NF-M1 NF-M2 NF-M4 NF-M5	3" 4" 3" 4"	REFER TO PAGE 12-13 REFER TO PAGE 12-13 REFER TO PAGE 12-13 REFER TO PAGE 12-13
ISOLATING VALVE: BUTTERFLY VALVE (WAFFER TYPE) GATE VALVE	4"	CARBON STEEL DUCTILE IRON BRONZE NI-AL-BR
PUMPER CONNECTION: PUMPER & CAP STORZ PUMPER & BUTTERFLY VALVE PUMPER WITH GATE VALVE	5 1/2" 5" 4 1/2" 4" 4" 4"	BRONZE BRONZE BRONZE BRONZE ALUMINUM BUTTERFLY VALVE WAFFER TYPE GATE VALVE: NF-V1-TT
BASE SHOE	ELBOW STRAIGHT	

*: OTHER SIZES AND SPECIFICATION CAN BE FOLLOWED RECEIVING CLIENT ORDER

WET BARREL HYDRANT (NF-H2-W)



Wet Barrel Hydrants are installed in warm weather areas and the shut-off valves are above ground.



ITEM:	SIZE:	TECHNICAL DATA/MATERIAL
NF-H2	4" 6"	CAST IRON DUCTILE IRON
OUTLET: NF-V2-TI NF-V3-TI NF-V4-TI NF-V4B-TI CAP STORZ		REFER TO PAGE 09-10 REFER TO PAGE 09-10 REFER TO PAGE 09-10 REFER TO PAGE 09-10 FEMALE THREAD ALUMINUM
MONITOR: NF-M1 NF-M2 NF-M4 NF-M5	3" 4" 3" 4"	REFER TO PAGE 12-13 REFER TO PAGE 12-13 REFER TO PAGE 12-13 REFER TO PAGE 12-13
ISOLATING VALVE: BUTTERFLY VALVE (WAFFER TYPE) GATE VALVE	4"	CARBON STEEL DUCTILE IRON BRONZE NI-AL-BR
PUMPER CONNECTION: PUMPER & CAP STORZ PUMPER & BUTTERFLY VALVE PUMPER WITH GATE VALVE	5 1/2" 5" 4 1/2" 4" 4" 4"	BRONZE BRONZE BRONZE BRONZE ALUMINUM BUTTERFLY VALVE WAFFER TYPE GATE VALVE: NF-V1-TT

*: OTHER SIZES AND SPECIFICATION CAN BE FOLLOWED RECEIVING CLIENT ORDER

VALVES

GATE VALVE

Valves are one of the most important parts of firefighting equipment. They are made of Copper Alloy material in accordance to BS 5041 and confirm to BS 336 for outlet connection.



NF-V1-TT



NF-V1-FF



NF-V2-FI



NF-V2-TI



NF-V3-FI



NF-V3-TI

GLOBE VALVE



NF-V4-TI



NF-V4-FI



NF-V4B-TI



NF-V4B-FI

SIAMESE CONNECTION



NF-SC

ITEM:	INLET:	OUTLET:	MATERIAL:
GATE VALVES:			
NF-V1-TT	4" THREAD	4" THREAD	BRONZE
NF-V1-FF	4" FLANGE	4" FLANGE	BRONZE
NF-V2-TI	2 ½" THREAD	2 ½" INST.	BRONZE
NF-V2-FI	3" FLANGE	2 ½" INST.	BRONZE
NF-V2-TI	2 ½" THREAD	2 ½" INST.	BRONZE
NF-V2-FI	3" FLANGE	2 ½" INST.	BRONZE
GLOBE VALVES:			
NF-V4-TI	2 ½" THREAD	2 ½" INST.	BRONZE
NF-V4-FI	3" FLANGE	2 ½" INST.	BRONZE
NF-V4B-TI	2 ½" THREAD	2 ½" INST.	BRONZE
NF-V4B-FI	3" FLANGE	2 ½" INST.	BRONZE
SIAMESE CONNECTION:			
NF-SC	2 X 2 ½" MALE INST.	4" FLANGE	BRONZE & CAST IRON

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POST INDICATOR VALVE

post indicator valve, is a valve assembly used to open or close the main water supply to a fire protection system. Negahban Post indicator valves can be used in any application where responsible firemen need a clear indication of the open or close position of the valve.

TYPE:	GATE SIZE:	CONNECTION TYPE:	MATERIAL:
NF-PIV-ADJ	2" – 24"	ANSI/DIN	DUCTILE IRON CARBON STEEL NI-AL-BR
NF-PIV-FIX	2" – 24"	ANSI/DIN	DUCTILE IRON CARBON STEEL NI-AL-BR
NF-PIV-PP	2" – 24"	ANSI/DIN	DUCTILE IRON CARBON STEEL NI-AL-BR

*: OTHER SIZES AND SPECIFICATION CAN BE FOLLOWED RECEIVING CLIENT ORDER



NF-PIV-FIX



NF-PIV-PP



NF-PIV-ADJ

FIRE WATER MONITOR

Negahban's fire water/foam monitors have a large flow capacity, cover a large area, and their nozzles are adjustable from a jet to wide fog pattern.



NF-M1



NF-M2



NF-M3



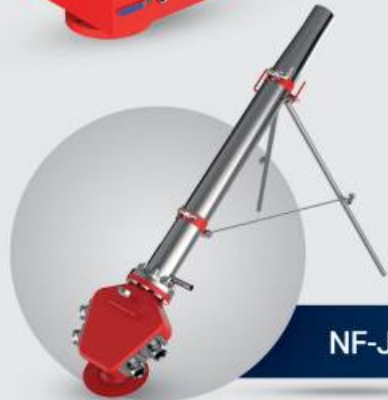
NF-M4



NF-M5



NF-M6



NF-JM



NF-TM-M4

FIRE WATER MONITOR

ITEM:	INLET SIZE:	MATERIAL:	DES.:
NF-M1	3" / FLANGED 4" / FLANGED	CARBON STEEL BRONZE STAINLESS STEEL	360 DEG HORIZONTAL ROTATION, -45 TO +80 DEG VERTICAL ELEVATION,
NF-M2	4" / FLANGED	BRONZE	360 DEG HORIZONTAL ROTATION, -45 TO +80 DEG VERTICAL ELEVATION,
NF-M3	2 X 2 ½" INST. MALE ACC. TO BS 336	ALUMINUM ALLOY	PORTABLE / MOBILE MONITOR
NF-M4	4" / FLANGED	DUCTILE IRON	360 DEG HORIZONTAL ROTATION, -45 TO +80 DEG VERTICAL ELEVATION, INDUCTION 1% TO 6%
NF-M5	3" / FLANGED 4" / FLANGED	CARBON STEEL BRONZE STAINLESS STEEL	OSCILLATING ANGLE: 0 TO 160 DEG, SPEED OF OSCILLATING: 0-40 DEG/SEC,
NF-M6	3" / FLANGED 4" / FLANGED 6" / FLANGED	CARBON STEEL STAINLESS STEEL	360 DEG HORIZONTAL ROTATION, -45 TO +80 DEG VERTICAL ELEVATION, WATER JET / AIR ASPIRATING NOZZLE
NF-TM	4 X 2 ½" INST. MALE ACC. TO BS 336	CARBON STEEL (TRAILER MATERIAL)	TYPE: FOUR WHEELED MOBILE
NF-JM	2 X 2 ½" INST. MALE ACC. TO BS 336	ALUMINUM PIPE STAINLESS STEEL PIPE	PORTABLE / MOBILE MONITOR

FLOW RANGE OF MONITORS ARE FROM 1000-4000 LPM @ 7 BAR

*: OTHER SIZES AND SPECIFICATION CAN BE FOLLOWED RECEIVING CLIENT ORDER



NOZZLES & SPRAY NOZZLES

NOZZLES

Nozzles are firefighting equipment that used with monitors and hoses. Negahban Co. is designer and manufacturer of variety of specialized firefighting hose and monitor nozzles to support firefighting systems.

ITEM:	INLET SIZE:	MATERIAL:	DES.:
NF-Z1	2 ½" INST. MALE ACC. TO BS 336	ALUMINUM BRONZE CHROMED BRASS	WATER TYPE JET/FOG/SHUT OFF
NF-Z2	2 ½" INST. MALE ACC. TO BS 336	ALUMINUM BRONZE	WATER TYPE
NF-Z3	2 ½" FEMALE THREAD	ALUMINUM BRONZE	WATER TYPE FLOW UP TO APP. 2000 LPM JET/FOG/SHUT OFF
NF-Z4	2 ½" FEMALE THREAD	ALUMINUM BRONZE	WATER & FOAM TYPE JET/FOG INDUCTION: 1% , 6%
NF-ZG	2 ½" INST. MALE ACC. TO BS 336	ALUMINUM	WATER TYPE JET/FOG/SHUT OFF

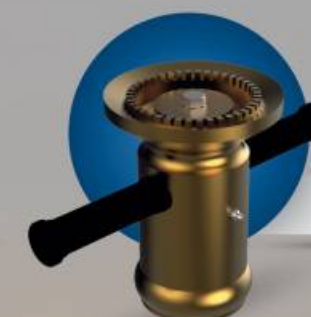
*: OTHER SIZES AND SPECIFICATION CAN BE FOLLOWED RECEIVING CLIENT ORDER



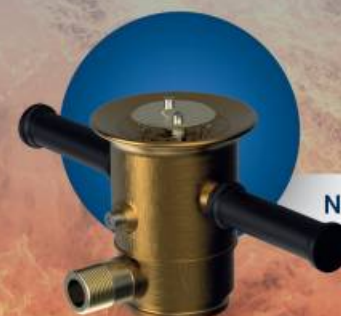
NF-Z1



NF-Z2



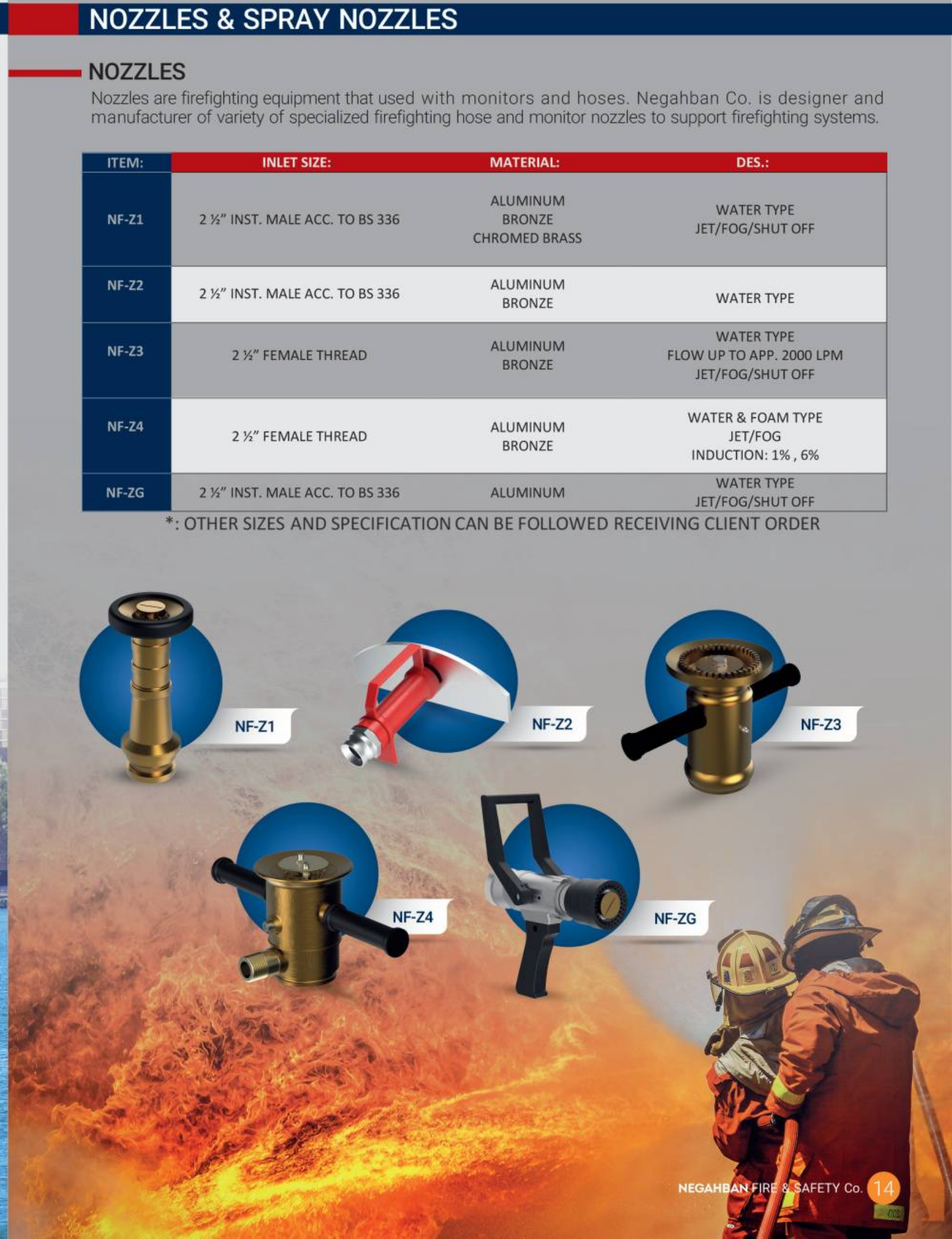
NF-Z3



NF-Z4



NF-ZG



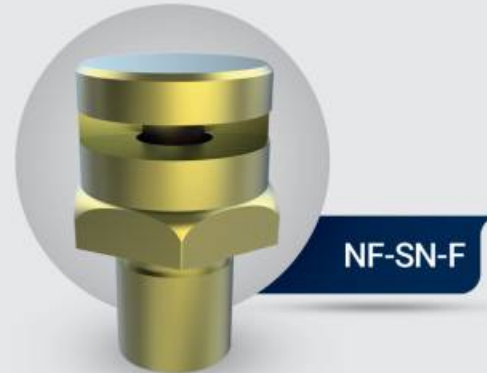
SPRAY NOZZLES

A spray nozzle is a precision device that facilitates dispersion of liquid into a spray. Negahban Co. is manufacturer of various type of spray nozzles such as:

- Flat pan
- Full cone
- Thermospray
- Spiral

MODEL:	TYPE:	INLET:	* K-FACTOR:	SPRAY ANGLE:	MATERIAL:		
NF-SN-C	FULL CONE	½" MALE NPT	AS ORDER	60-120	BRASS	BRONZE	S. STEEL
NF-SN-F	FLAT PAN	½" MALE NPT	AS ORDER	120-160	BRASS	BRONZE	S. STEEL
NF-SN-T	THERMOSPRAY (MEDIUM VELOCITY)	½" MALE NPT	AS ORDER	60-150	BRASS	BRONZE	S. STEEL
NF-SN-S	SPIRAL	½" MALE NPT	AS ORDER	60-170	BRASS	BRONZE	S. STEEL

*: K-FACTOR = $\frac{Q}{\sqrt{P}}$ (Q(LPM) , P(BAR))



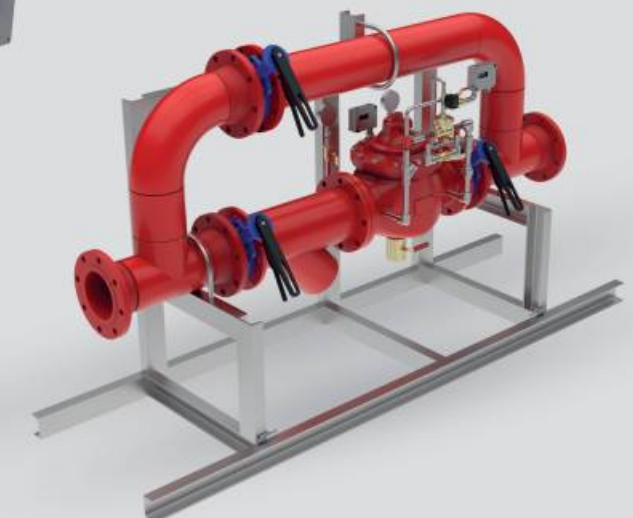
AUTOMATIC FIRE SUPPRESSION SYSTEMS

DELUGE SKID & DELUGE VALVE

PIPING MATERIAL: CARBON STEEL Cu-Ni			GALVANIZE CARBON ST. STAINLESS STEEL
DELUGE TYPE: GLOBE / ANGLE ELASTOMETRIC / TUBULAR DIAPHRAGM			
DELUGE BODY MATERIAL: DUCTIL IRON STAINLESS STEEL			BRONZE NI-AL-BRONZE CAST STEEL AL-BRONZE
PRESSURE CONTROL: YES NO			
ACTUATION TYPE: HYDRAULIC HYDRAULIC-ELECTRIC			PNEUMATIC PNEUMATIC-ELECTRIC
SOLENOID: 24VDC 48VDC NORMALLY OPEN			
			110VAC 220VAC NORMALLY CLOSE
			2 WAY 3 WAY LATCH TYPE
INSTRUMENTS: PRESSURE SWITCH PRESSURE TRANSMITTER PRESSURE GAUGE			
			ALARM GONG BY PASS LINE
ISOLATING/BYPASS VALVE: BUTTERFLY VALVE			
			GATE VALVE
OTHER ACCESSORIES: STRAINER DRIP FUNEL MANUAL PUSH BUTTON FUSIBLE PLUG FOR DETECTION SYSTEM RISTRICTION ORIFICE OTHER REQUIERMENT.....			
			DRAIN VALVE JUNCTION BOX CHECK VALVE TEST VALVE AIR CYLINDER

*: OTHER SIZES AND SPECIFICATION CAN BE FOLLOWED RECEIVING CLIENT ORDER

Deluge Systems are used for water supply and transfer of large amounts of water over a specified period of time, especially for use in cooling, firefighting, sprinkler systems or foam systems.



GAS SYSTEMS



Gaseous fire suppression in different agent and both total flooding & local application are designed and installed by Negahban Co. these systems are design in accordance to referred NFPA standard. Other pre-engineered system namely PAFSS (Pneumatic Actuation Fire Suppression System) as well as other non-gaseous systems such as aerosol, dry & wet chemical and water mist also are available.

AGENT TYPE:

- INERT GAS (IG01, IG55, IG100, IG541)
- CO2
- FM 200
- NOVEC 1230

FOAM SYSTEMS

FIXED FOAM PACKAGE
FOAM MAKER(RIM SEAL & FOAM POURER & FOAM CHAMBER & HIGH BACK PRESSURE)
INLINE INDUCTOR

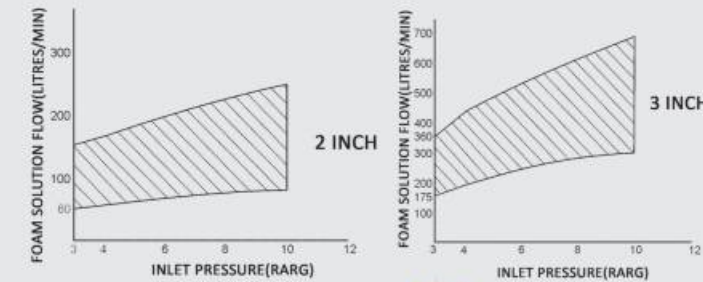
FIXED FOAM PACKAGE

NEGAHBAN Co. is the sole designer and implementer of Foam Systems with water driven proportional system in Iran and has implemented several projects in this field. The NEGAHBAN Company are manufacturer of all necessary items for the foam system, including foam skids, deluge skid, and a variety of foam makers.



RIM SEAL FOAM POURER

Negahban Rim Seal foam pourer is designed to discharge aspirate foam directly to the annular seal area of the open top floating roof storage tanks for fire or vapor suppression.

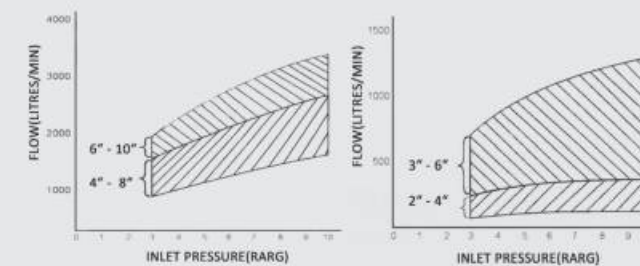


ITEM:	INLET SIZE:
NF-RS	2" 2 1/2" 3"
MATERIAL:	CARBON STEEL STAINLESS STEEL GALVANIZED STEEL



FOAM CHAMBER

Foam chambers are defined by NFPA 11 as Type II discharge outlets for delivering foam to the surface of a flammable liquid. Negahban foam chambers are air-aspirating foam discharge devices that are used to protect various types of flammable liquid storage tanks including cone roof tanks.



ITEM	INLET - OUTLET
NF-FC	2" - 4" 3" - 6" 4" - 8" 6" - 10"
MATERIAL:	CARBON STEEL STAINLESS STEEL GALVANIZED STEEL



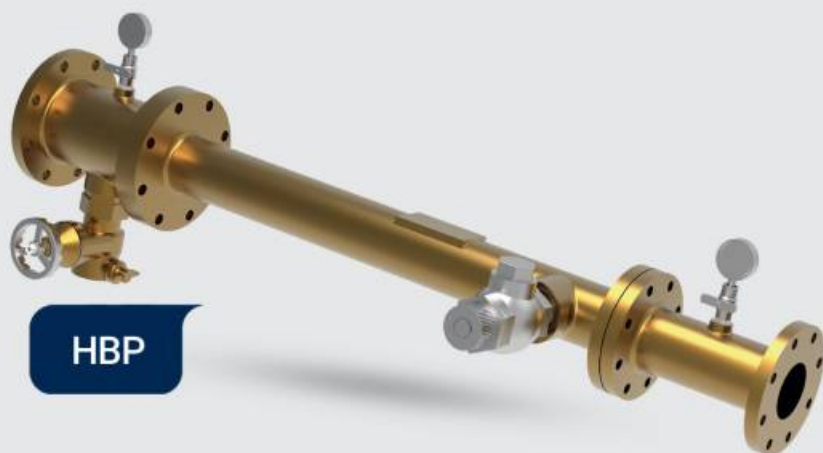


HIGH BACK PRESSURE

Negahban High Back Pressure are designed to generate expanded foam for the purpose of subsurface injection into a cone roof liquid hydrocarbon storage tanks.

MODEL:	HBP22	HBP24	HBP33	HBP46	HBP68
CONNECTION:					
INLET	2"	2"	3"	4"	6"
OUTLET	2"	4"	3"	6"	8"
CONNECTION TYPE:					
INLET		THREAD	FLANGE:	RF FF	
OUTLET		THREAD	FLANGE:	RF FF	
BODY MATERIAL:		STAINLESS STEEL GALVANIZED STEEL	AL ALLOY BRASS	BRONZE	
AIR STRAINER MATERIAL: ORIFICE / VENTURI MATERIAL:		STAINLESS STEEL STAINLESS STEEL			
TEST VALVE:		YES	NO		
PRESSURE GAUGE:		YES	NO		
CHECK VALVE:		YES	NO		

*: OTHER SIZES AND SPECIFICATION CAN BE FOLLOWED RECEIVING CLIENT ORDER



HBP

INLINE INDUCTOR

ITEM:	
NF-II	INLET: 2 1/2" MALE ISNT. ACC. TO BS-336 OUTLET: 2 1/2" FEMALE ISNT. ACC. TO BS-336
CAPACITY:	400/900 LPM
MATERIAL:	ALUMINUM

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Inline Inductors are proportioners characterized by a self-suction mechanism of venturi type. Our inline inductors suck the foam concentrate in the required proportion and make for the proper admixture. The admixture percentages can be set for 1% - 2% - 3% - 6%.



NF-II

SAFETY SHOWER & EYE WASH

SAFETY SHOWER & EYE WASH

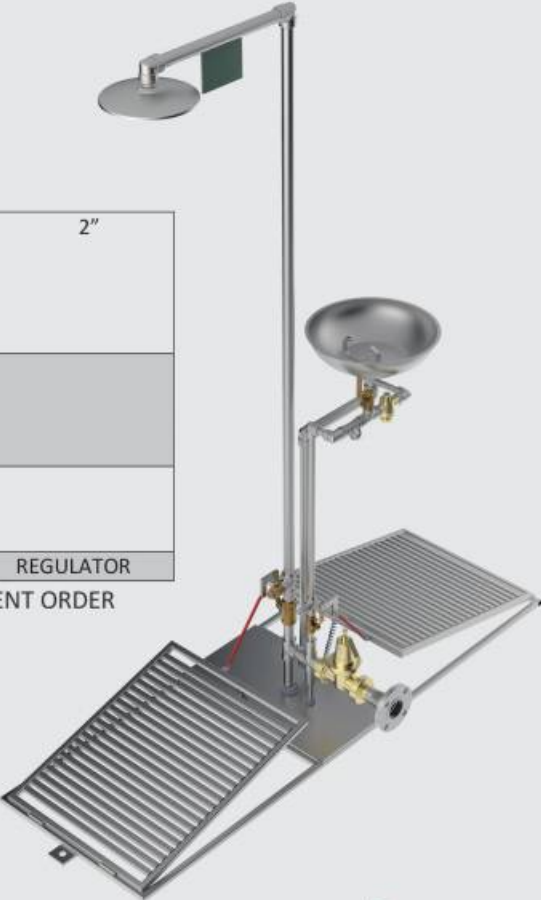
An emergency eyewash and safety shower station are essential equipment for every laboratory and outdoor that uses chemical and hazardous substances needs. Negahban Co. produces various types of safety shower and eyewash such as follows:

- Combine Safety Shower & Eyewash
- Eyewash
- Portable Eyewash

PIPE SIZE:	1"	1 1/2"	2"
PIPE MATERIAL:	STAINLESS STEEL	GALVANIZED STEEL	
HAND HELD DIFFUSER:	YES	NO	
DRAIN:	YES	NO	
OPERATION:			
SHOWER:	FOOT PEDAL	PULL HANDLE	
EYEWASH:	FOOT PEDAL		
BOWL MATERIAL:	STAINLESS STEEL		
HEAD SHOWER MATERIAL:	STAINLESS STEEL		
C/W:	SAFETY SIGN	STRAINER	REGULATOR

*: OTHER SIZES AND SPECIFICATION CAN BE FOLLOWED RECEIVING CLIENT ORDER

NF-SSE



SAFETY EYE WASH

PIPE SIZE:	1"	1 1/2"	2"
PIPE MATERIAL:	STAINLESS STEEL	GALVANIZED STEEL	
HAND HELD DIFFUSER:	YES	NO	
DRAIN:	YES	NO	
OPERATION:			
SHOWER:	FOOT PEDAL	PUSH HANDLE	
EYEWASH:	FOOT PEDAL		
BOWL MATERIAL:	STAINLESS STEEL		
HEAD SHOWER MATERIAL:	STAINLESS STEEL		
C/W:	SAFETY SIGN	STRAINER	REGULATOR

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NF-EW



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ADAPTOR & COUPLING & BREECHING

Negahban Co. can supply a range of British and International Fire Hose Fittings including adaptors, couplings, blank caps, etc.

CONNECTION TYPE:	CODE:
MALE THREAD	MT
FEMALE THREAD	FT
MALE INST.	MI
FEMALE INST.	FI
STORZ	STORZ
HOSE TAIL (SERRATED / RIBBED TYPE)	HT

*: OTHER SIZES AND SPECIFICATION CAN BE FOLLOWED RECEIVING CLIENT ORDER



HOSE BOX & HOSE REEL

HOSE BOX



Negahban's hose boxes provide a means to store delivery Hoses & Branches indoor and outdoor locations. hose reels are located to provide a reasonably accessible and controlled supply of water to combat a potential fire risk

MATERIAL:	CARBON STEEL	GRP	GALVANIZED STEEL
SIZE:	SIZE ACC. TO ORDER		
TYPE:	SELF STANDING SINGLE DOOR	WALL MOUNTED DOUBLE DOOR	
CONTENTS:	WATER BRANCH PIPE FOAM BRANCH PIPE INLINE INDUCTOR HYDRANT WRENCH COUPLING ADAPTOR		FIRE HOSE FOAM BARREL COUPLING DIVIDING BREECHING COLLECTING BREECHING

*: OTHER SIZES AND SPECIFICATION CAN BE FOLLOWED RECEIVING CLIENT ORDER

HOSE REEL

Fire hose reels are located at strategic places in buildings to provide a reasonably accessible and controlled supply of water for fire extinguishing.



MATERIAL:	CARBON STEEL	GALVANIZED STEEL
SIZE:	SIZE ACC. TO ORDER	
TYPE:	SELF STAND	WALL MOUNTED
CABINET:	YES	NO
HOSE:	1", NON-COLLAPSIBLE 2 1/2", COLLAPSIBLE	1 1/2", COLLAPSIBLE
C / W	NOZZLE ISOLATING INLET VALVE	PRESSURE REGULATOR FOAM BARREL

*: OTHER SIZES AND SPECIFICATION CAN BE FOLLOWED RECEIVING CLIENT ORDER

SUPPLYING ITEMS

Nagahban Co. is able to supply variety of safety equipment such as follows:

EXTINGUISHER



FIRE ALARM SYSTEM



FIRE FIGHTING EQUIPMENT



OTHER SAFETY EQUIPMENT



PERSONAL PROTECTION EQUIPMENT

