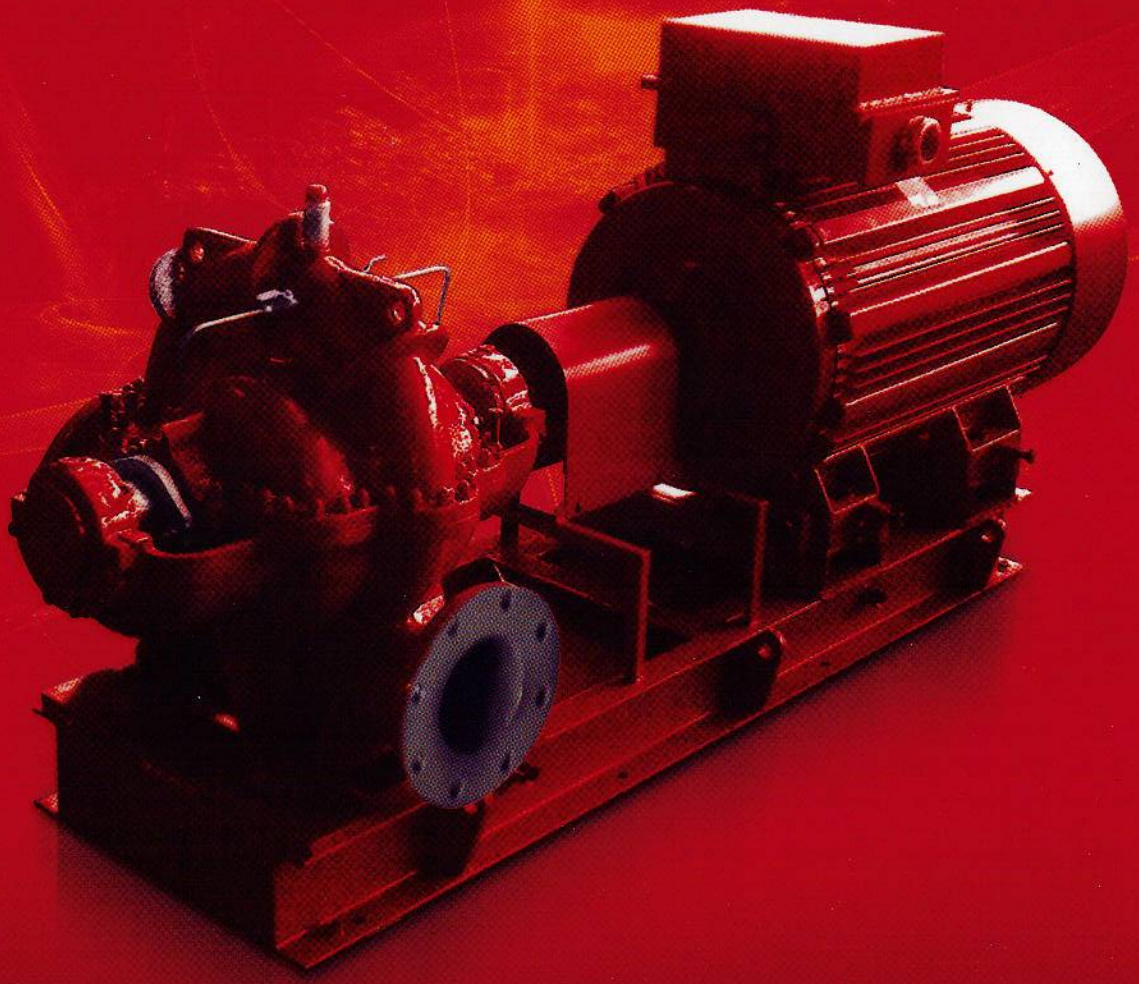
PETCO

Heavy Duty Pumps And Water Turbine Mfg. Co.

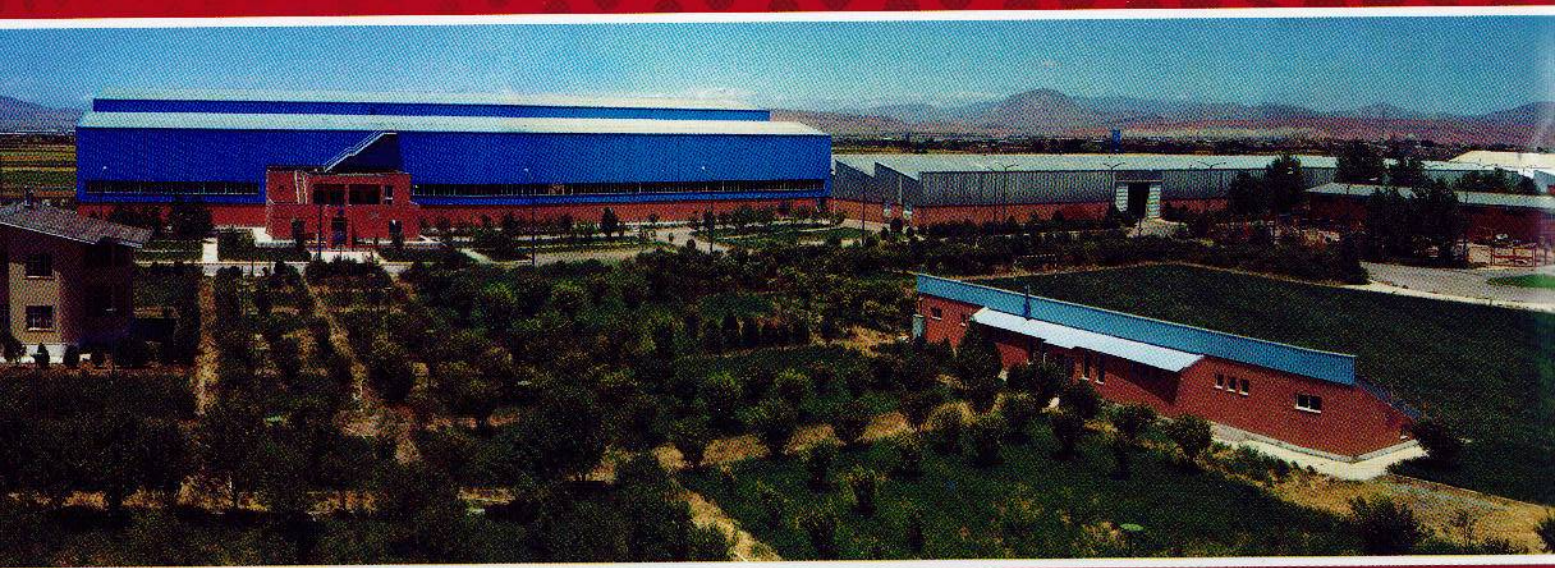


Fire Fighting Packages

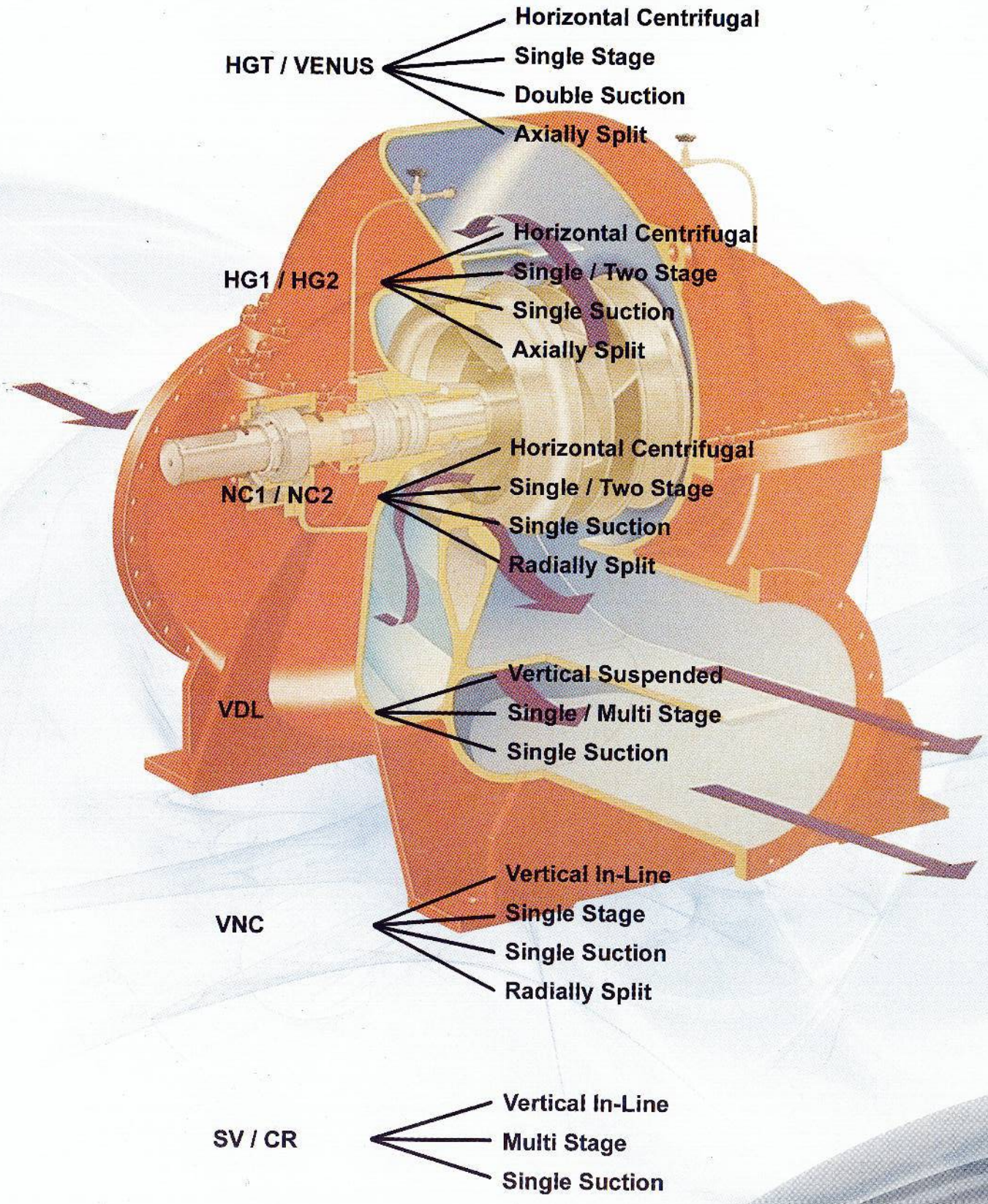
PETCO

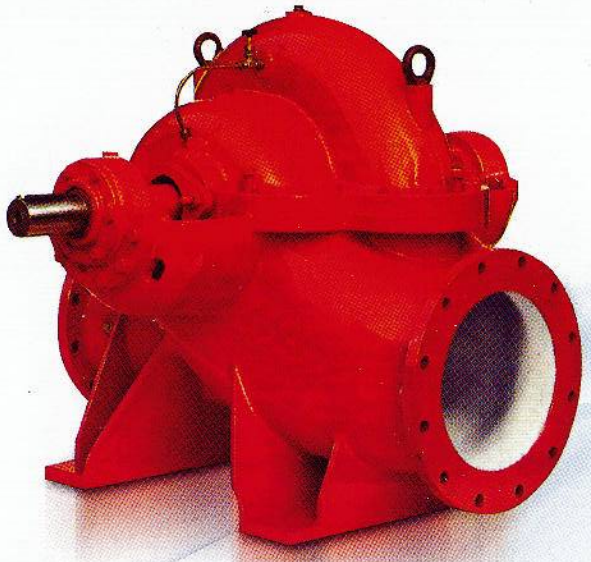
Heavy Duty Pumps And Water Turbine Mfg. Co.

PETCO has been established in 1991 for design and manufacturing of various types of pumps in refineries, power plants, chemical and petrochemical plants, pump stations, water and waste water treatment plants and etc.
The factory is located in tabriz city in an area of 80000 m^2 and, total covered area is 20000 m^2 with largest hydraulic test facility in middle east.



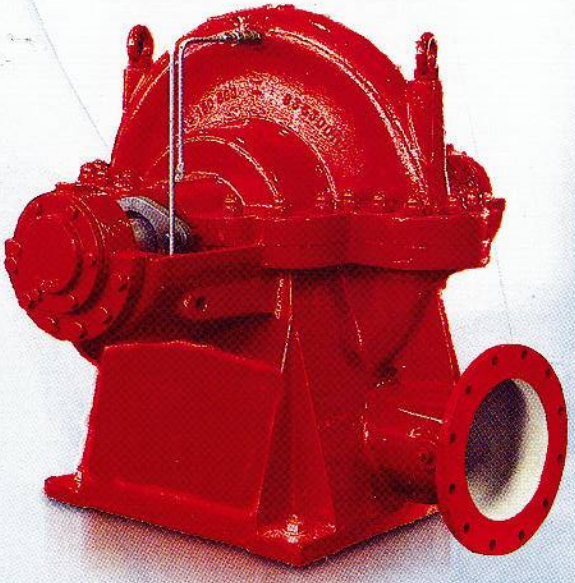
PETCO


HGT / VENUS
Horizontal Centrifugal
Single Stage
Double Suction
Axially Split
HG1 / HG2
Horizontal Centrifugal
Single / Two Stage
Single Suction
Axially Split
NC1 / NC2
Horizontal Centrifugal
Single / Two Stage
Single Suction
Radially Split
VDL
Vertical Suspended
Single / Multi Stage
Single Suction
VNC
Vertical In-Line
Single Stage
Single Suction
Radially Split
SV / CR
Vertical In-Line
Multi Stage
Single Suction



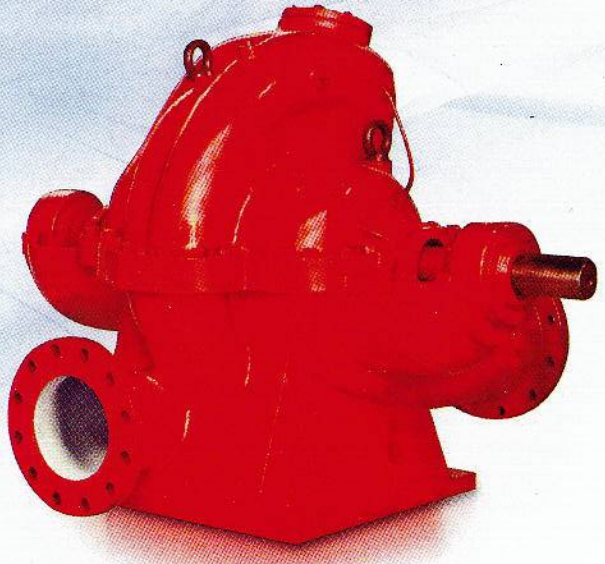
Capacity: 90- 10000 m³/hr
Head: up to 200m
Axially Split Case
Double Suction

HGT / VENUS



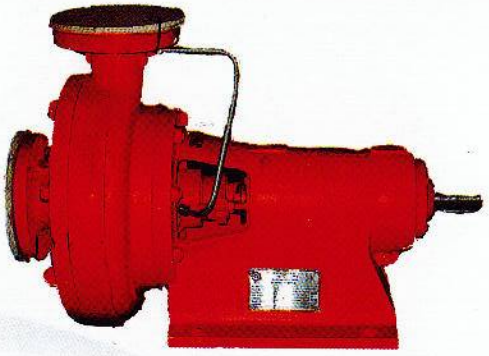
Capacity: 20- 500 m³/hr
Head: up to 160m
Axially Split Case
Single Suction / Single Stage

HG1



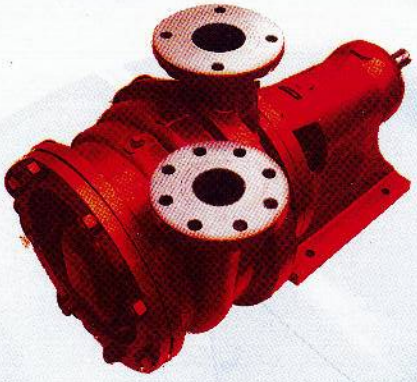
Capacity: 40- 2000 m³/hr
Head: up to 300m
Axially Split Case
2 Stage / Single Suction

HG2



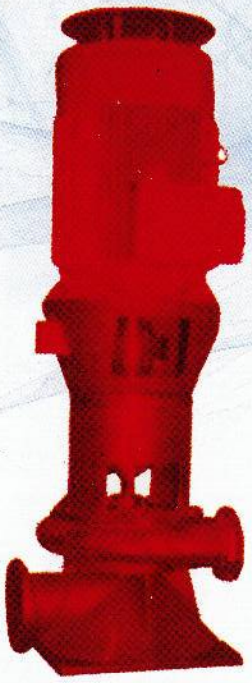
NC1

Capacity: 5- 1200 m³/hr
Head: up to 150 m
End Suction - Top Discharge
Radially Split



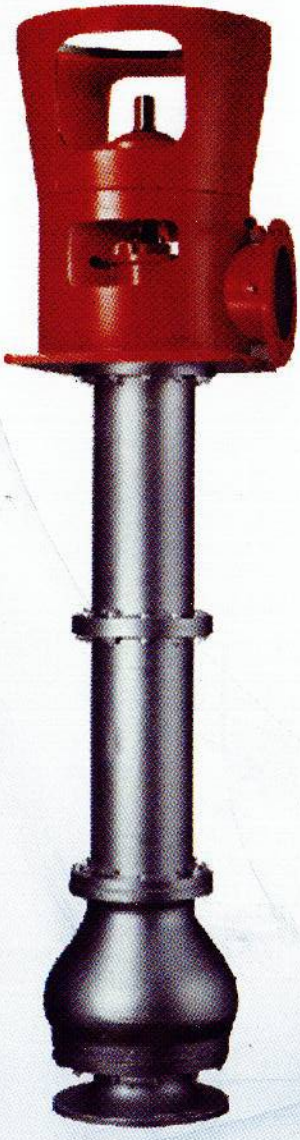
NC2

Capacity: 10 – 600m³/hr
Head: up to 300m
2 Stage
Radially Split



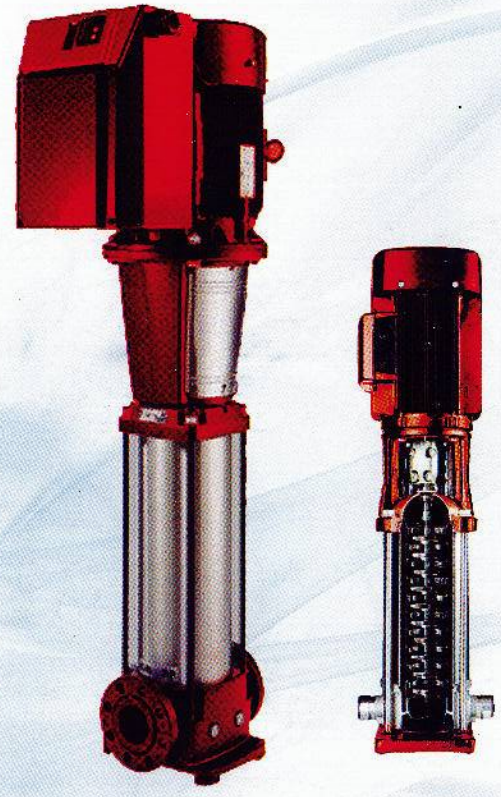
VNC

Capacity: 5-1200 m³/hr
Head: up to 150m
Vertical in Line



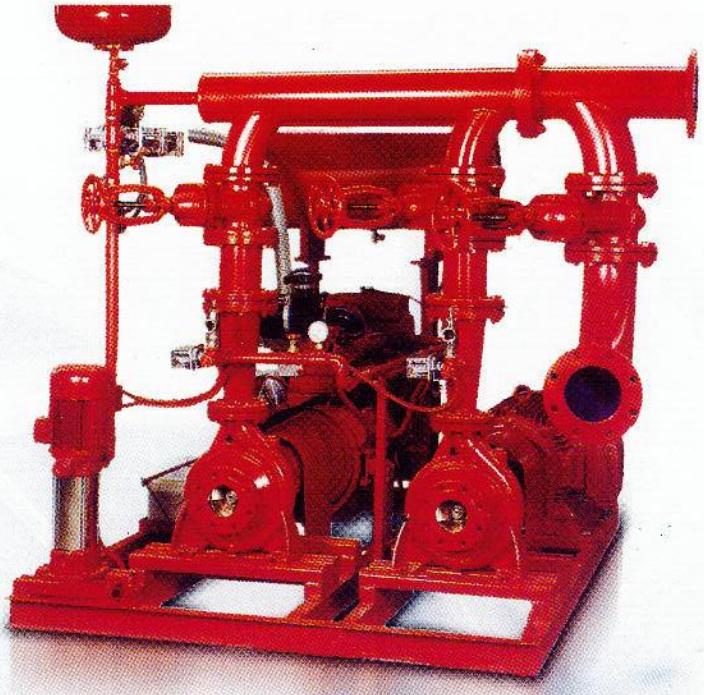
VDL

Capacity: 50- 10000 m³/hr
Head: up to 230 m
Vertical Suspended

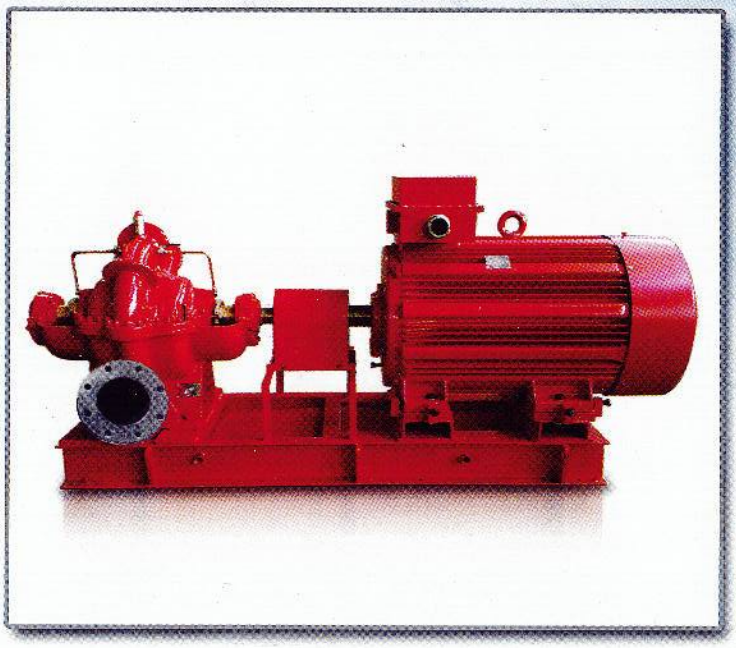


Capacity: 2 – 100m³/hr
Head: up to 200m
Vertical in Line
Multi Stage

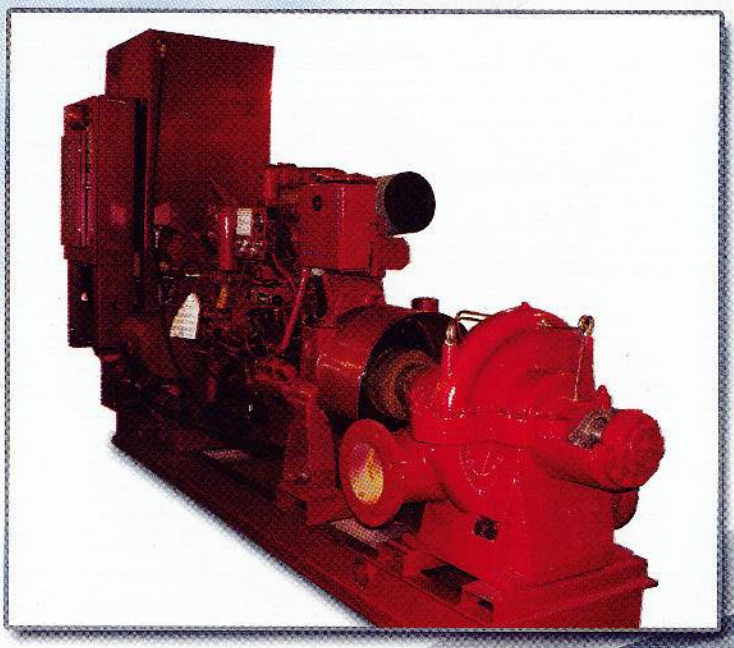
Petco Fire Fighting Packages



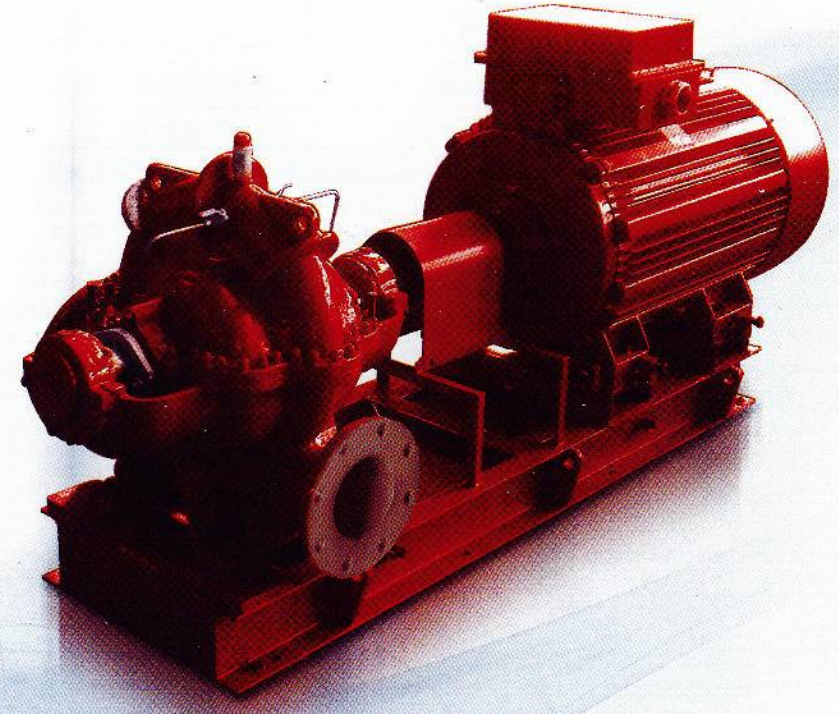
Electric Motor Fire Water Pumps



Diesel Engine Fire Water Pumps



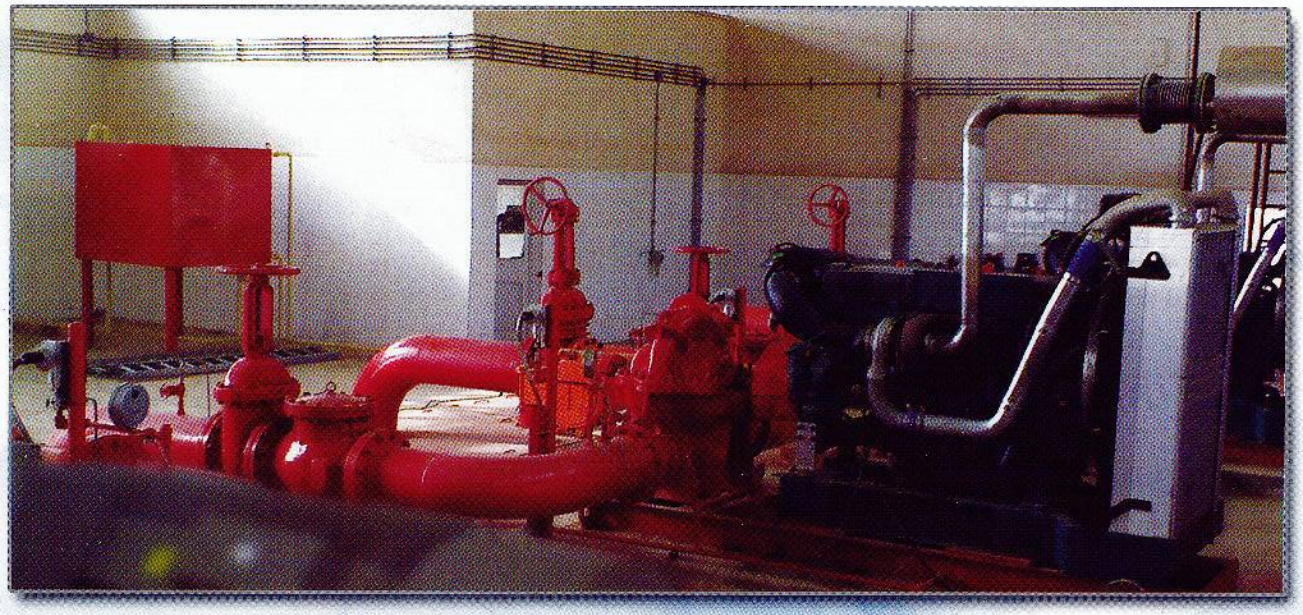
Electrical Fire Fighting Packages



Summary of supply:

- Centrifugal Pump
- Electric Motor
- Flexible coupling and guard
- Common base plate with lifting lugs and earth points
- Manual/automatic controller and control panel (automatically start & stop via a pressure-actuated switch having independent high and low calibrated adjustment as part of the controller.)
- Interconnecting power and control wiring/cabling between all equipment within Base plate
- Automatic air release valve (if necessary)
- Drain connections for casing of pump (valve with flange is applicable as an option)
- Instruments such as gauges , switches and transmitters(applicable as an option)

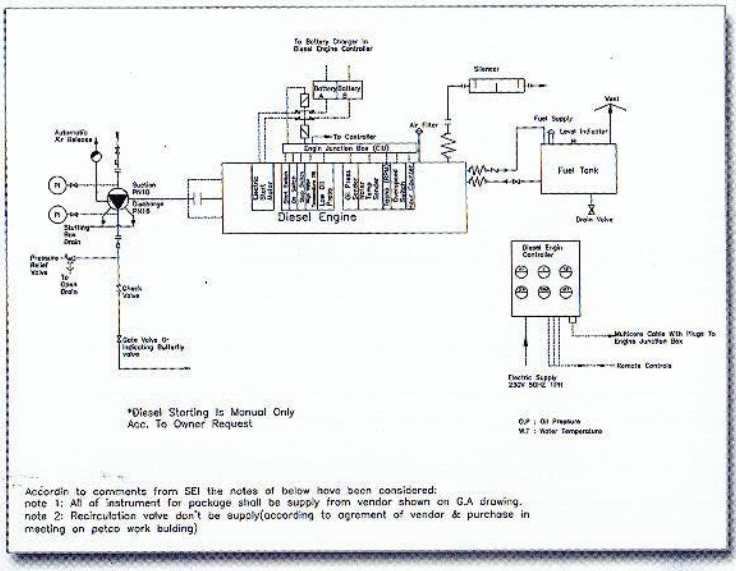
Diesel Engine Fire Fighting Packages



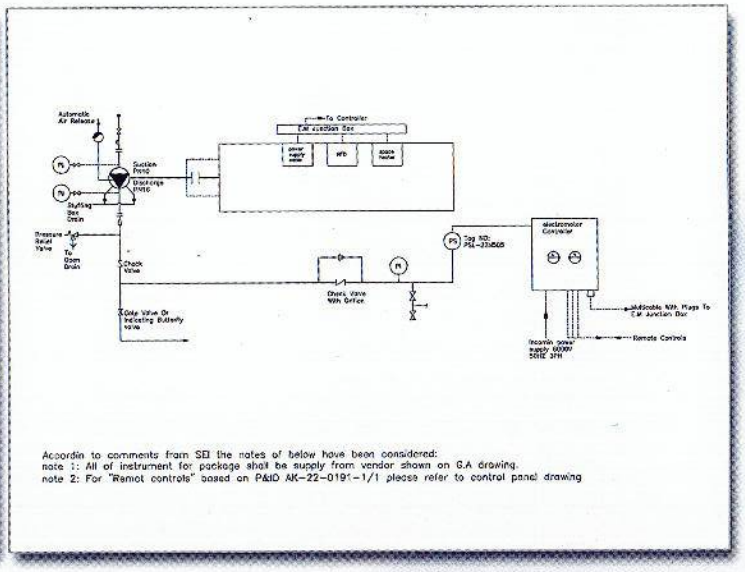
Summary of supply:

- Centrifugal Pump
- Diesel Engine
- Diesel engine fuel tank with valves/fittings, vent and level instruments.
- Flexible coupling and guard
- Common base plate with lifting lugs and earth points
- Manual/automatic controller and control panel (automatically start & stop via a pressure-actuated switch having independent high and low calibrated adjustment as part of the controller)
- Interconnecting power and control wiring/cabling between all equipment within Base plate / Cabinets
- Automatic air release valve (if necessary)
- Drain valve for casing of pump (valve with flange is applicable as an option)
- Main Relief Valve (optional)
- Diesel engine electric starting systems with battery charger
- Instruments such as gauges, switches and transmitters(applicable as an option)

Sample Control System Philosophy In Fire Fighting Packages



Accordin to comments from SEI the notes of below have been considered:
note 1: All of instrument for package shall be supply from vendor shown on G.A drawing.
note 2: Recirculation valve don't be supply(according to agrement of vendor & purchase in meeting on petco work building)



Accordin to comments from SEI the notes of below have been considered:
note 1: All of instrument for package shall be supply from vendor shown on G.A drawing.
note 2: For "Remot controls" based on P&ID AK-22-019-1/1 please refer to control panel drawing

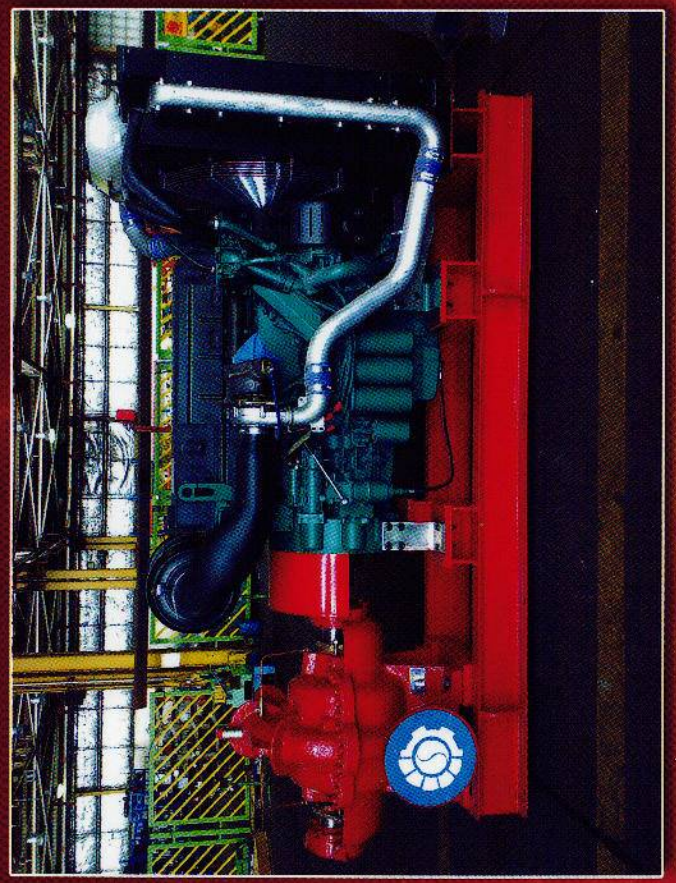
Jockey pumps:
Usually two jockey pumps are in fire water systems, one of them is in duty and one as standby will keep the system pressurized at system pressure. First jockey pump starts when system differential pressure drops to 0.5 barg. If this pump fails to maintain system pressure, second pump will start automatically once the system differential pressure drops to 1 barg.

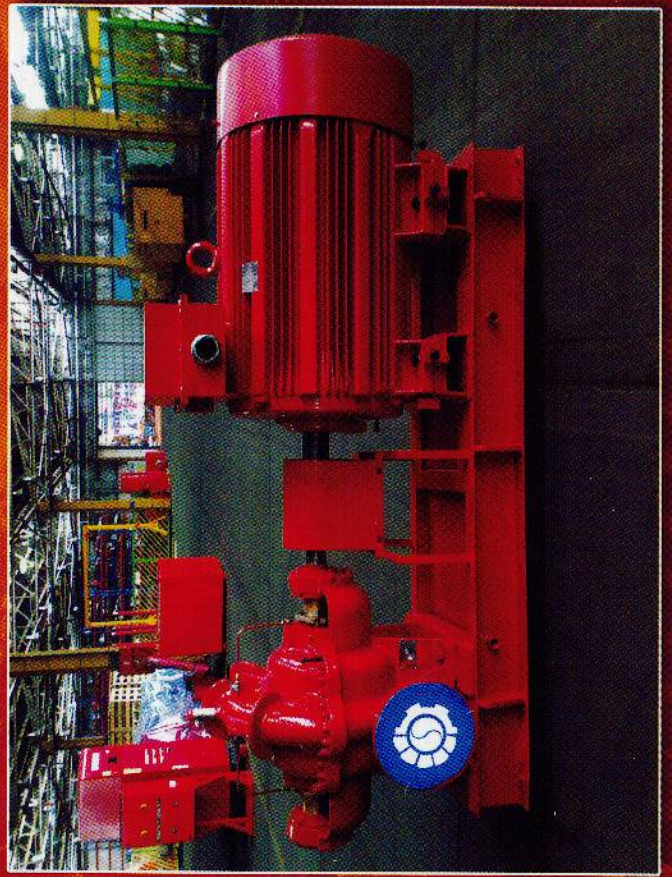
Electric fire pumps:
A pressure transducer located inside each local control panel (can be located in discharge line of each main pump as an option) measures the system pressure. If differential pressure drops to 2.5 barg, all main electric fire pumps will receive a start signal from their pressure transducers , first pump will start immediately , if fails to raise the system differential pressure to 2.5 barg , next pump will start after 10 second . Other pumps will start each 10 second respectively.

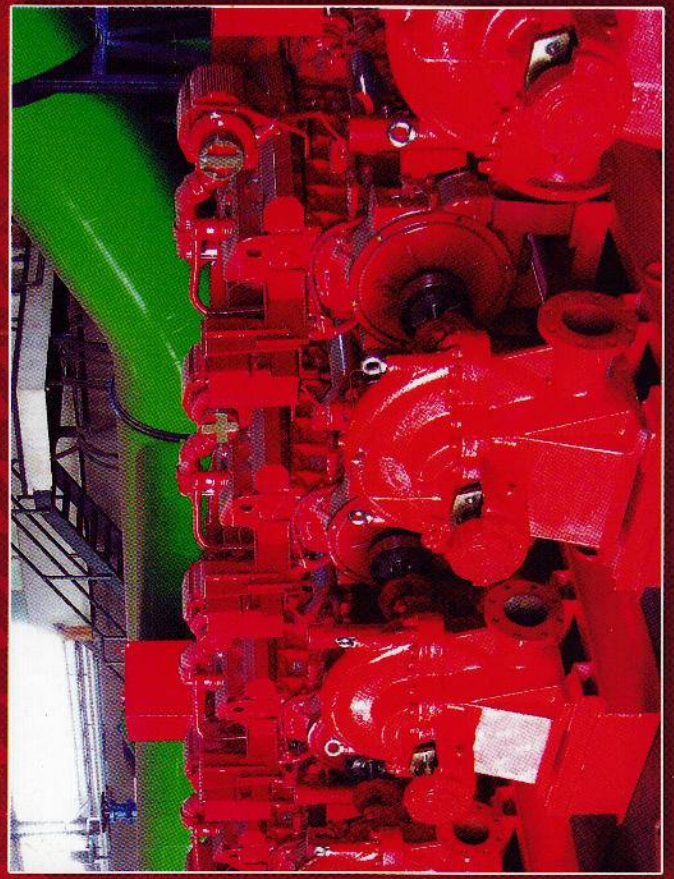
Diesel fire pumps:
The diesel pumps will be set to operate if the differential pressure drops to 3.5 barg. If the electric fire pumps fail to raise the system pressure, all diesel pumps will receive start signal. First Diesel pump immediately start, if this pump fail to raise the system differential pressure to 3.5 barg, next pump will start after 10 seconds. Other pumps will start each 10 second respectively.

PETCO

Heavy Duty Pumps And Water Turbine Mfg. Co.







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www.pumpturbine.ir

NFPA20 PUMPS

NFPA Pumps

Fire Fighting PUMPS (NFPA 20)											1 of 5
Row	Type of Pump	Client / End User	Name Of Pump	rpm	Q (m3/hr)	H(m)	QTY.	Driver	KW	JOB NO.	
1	B.B	Khotote Loole va Mokhaberat Naft	HG1-150.500	1800	300-400	120	41	Diesel	276	79	1221
2	B.B	Khotote Loole va Mokhaberat Naft	HG2-150.400	1500	300	120	55	E.Motor	200	79	1221
3	B.B	National Iranian Oil Product Refining & Distributing Co.	HG1-150.500	1800	273	130	6	Diesel	190	78	1037
4	B.B	National Iranian Oil Product Refining & Distributing Co.	HG1-150.500	1500	273	130	16	Diesel	160	79	1234
5	B.B	National Iranian Oil Product Refining & Distributing Co.	WDS-4L13	3000	216	130	20	E.Motor	160	78	1022
6	B.B	I.C.O.F.C.	HG2-150.400	1500	287	107	1	Diesel	220	85	1110
7	B.B	I.C.O.F.C.	HG2-150.400	1500	287	107	1	E-Motor	160	85	1110
8	B.B	Iran Central Oil Fields Company	HGT1- 250.650	1500	600	122	1	E-Motor	355	86	1052
9	B.B	Iran Central Oil Fields Company	HGT1- 250.650		600	122	2	Diesel	420	86	1052
10	B.B	N.I.O.P.D.C	HGT1-125.315	3000	227	130	3	E-Motor	165	86	1051
11	B.B	N.I.O.P.D.C	HGT1-250.650	1500	681	130	2	Diesel	494	86	1051
12	B.B	NISOC	HGT1-200.500A	1800	320	122.7	1	Diesel	200	85	1064
13	B.B	NISOC	HGT1-125.315	3000	320	123	1	E.Motor	200	85	1064
14	B.B	S.O.I.Z (NISOC)	HG2-150.400	1500	273	115.5	1	E.Motor	160	78	1073
15	B.B	S.O.I.Z (NISOC)	HGT1-125.315	3000	341	124	1	E.Motor	200	80	1142
16	B.B	M.O.I.Z (I.C.O.F.C)	HGT1-125.315	3000	270	107	4	Emotor/Diesel	126	79	1212
17	B.B	Kherad/ POGC	HGT1-250.650	1500	610	118.6	1	E.Motor	350	87	1037
18	B.B	Kherad/ POGC	HGT1-250.650	1500	610	118.6	2	Diesel	352	87	1037
19	B.B	Kherad/ POGC	HGT1-250.650	1500	487	147	1	E.Motor	400	87	1037
20	B.B	Kherad/ POGC	HGT1-250.650	1500	487	147	2	Diesel	392	87	1037
21	OVH	Kherad/ POGC	CP-40.315	3000	30	118.6	2	E.Motor	30	87	1037
22	OVH	Kherad/ POGC	CP-40.315	3000	30	147	2	E.Motor	37	87	1037
23	B.B	Abadan Refinery	HG2-150.400	1800	425	112	5	Diesel	213	85	2033
24	B.B	Razi Petrochemical Complex	HGT1-200.500A	1500	460	92	1	Diesel	180	80	1108
25	B.B	Cala Naft Tehran	HG2-125.400	1500	150	100	8	Emotor/Diesel	70	78	1021
26	B.B	SPEC	HGT1-300.650	1500	875	113	4	Emotor/Diesel	560	81	1022

*) **B.B:** Between Bearing split case;**OVH:** horizontal Overhung; **V.S.P:** vertical suspended propeller type; **V.S.M:** vertical suspended mixed flow type; **V.I.L:** vertical in-line type

NFPA Pumps

Fire Fighting PUMPS (NFPA 20)

Row	Type of Pump	Client / End User	Name Of Pump	rpm	Q (m3/hr)	H(m)	QTY.	Driver	KW	JOB NO.	
27	B.B	SPEC	NC1-50.340S	3000	45	113	2	E.Motor	45	81	1022
28	B.B	National Iranian Cupper Industries Co.	HG1-80.315	3000	120	120	2	Emotor/Diesel	68	81	1057
29	B.B	Chegalesh Co.	HG1-80.315	3000	110	119	1	Diesel	100	84	2063
30	B.B	Tehran Mirab	HG2-100.400	1500	87	86	4	E.Motor	45	85	2008
31	B.B	Saman J.V. Group	HG2-100.400	1500	110	105	2	Emotor/Diesel	45	83	1184.1
32	B.B	Khark Iland	HG2-150.500	1800	330	230	2	Diesel	492	84	2068
33	B.B	Zhalke Company	HG2-100.400	1500	135	100	4	E.Motor	75	85	1074
34	B.B	Sadra Dry Dock	HGT1-125.315	1500	320	120	4	Emotor/Diesel	167	80	1112
35	B.B	T.I.J.D J.V Groupe	HGT1-250.650	1500	682	120	2	Diesel	466	82	1275
36	B.B	T.I.J.D J.V Groupe	HGT1-250.650	1500	682	120	2	E.Motor	400	82	1275
37	B.B	T.I.J.D J.V Groupe	HGT1-300.800Z	1500	1105	157	2	Diesel	1066	82	1275
38	B.B	T.I.J.D J.V Groupe	HGT1-300.800Z	1500	1105	157	1	E.Motor	900	82	1275
39	B.B	Saman J.V. Group	HGT1-300.650	1500	850	105	6	Emotor/Diesel	466	83	1184.1
40	B.B	Khishavand Co./Tange Bijar (ICOFC)	HGT1-125.315	3000	270	100	1	E.Motor	150	83	1370
41	B.B	Khishavand Co./Tange Bijar (ICOFC)	HGT1-200.500A	1800	540	100	1	Diesel	285	83	1370
42	B.B	Zhalke Company	HGT1-200.500A	1500	400	100	1	Diesel	75	85	1074
43	B.B	Hirbodan-Imam Taghi Station	HGT1-300.650	1500	730	102	2	Diesel	412	85	2070
44	B.B	Hirbodan-Imam Taghi Station	HGT1-300.650	1500	730	102	1	E.Motor	400	85	2070
45	B.B	Hirbodan-Ahvaz Bangestan	HGT1-200.500A	1500	350	100.4	1	Diesel	190	85	1102
46	B.B	Hirbodan-Ahvaz Bangestan	HGT1-200.500A	1500	400	100	1	E.Motor	200	85	1102
47	B.B	Bina Consulting Engineering	HGT1-200.500A	1800	350	119	1	Diesel	247	85	1091
48	B.B	Bina Consulting Engineering	HGT1-200.500A	1500	350	100.4	1	E.Motor	200	85	1091
49	B.B	Norahan Sanaye / Ilam petrochemical	HGT1-300.650	1500	1000	100	5	Emotor/Diesel	440	85	1068
50	B.B	TARAZ CO.	VENUS1-200.510	1500	454	110	2	Emotor/Diesel	285	85	1119
51	B.B	Sari-Moghanak (NIOEC)	HGT1-250.650	1500	536	115.8	1	E.Motor	300	87	2075
52	B.B	Sari-Moghanak (NIOEC)	HGT1-250.650	1500	536	115.8	2	Diesel	350	87	2075
53	B.B	Shazand Arak Refinery (NIOEC)	HGT1-300.650	1500	908	109	1	Diesel	505	86	2013/5
54	B.B	Shazand Arak Refinery (NIOEC)	HGT1-300.650	1500	908	109	1	E.Motor	500	86	2013/5

*) **B.B:** Between Bearing split case;**OVH:** horizontal Overhung; **V.S.P:** vertical suspended propeller type; **V.S.M:** vertical suspended mixed flow type; **V.I.L:** vertical in-line type

NFPA Pumps

Fire Fighting PUMPS (NFPA 20)											3 of 5
Row	Type of Pump	Client / End User	Name Of Pump	rpm	Q (m3/hr)	H(m)	QTY.	Driver	KW	JOB NO.	
55	B.B	Sari-Moghanak (NIOEC)	HGT1-300.650	1500	830	115.8	2	E.Motor	420	87	2075
56	B.B	Sari-Moghanak (NIOEC)	HGT1-300.650	1500	830	115.8	2	Diesel	435	87	2075
57	OVH	T.I.J.D J.V Groupe	NC1-50.340S	3000	68	120	2	E.Motor	55	82	1275
58	OVH	T.I.J.D J.V Groupe	NC2-65.280	3000	68	157	2	E.Motor	75	82	1275
59	OVH	Norahan Sanaye	NC1-50.279	3000	60	60	2	E.Motor	22	85	1068
60	OVH	Sari-Moghanak (NIOEC)	CP-40.315	1500	15	33.18	2	E.Motor	5.5	87	2075
61	OVH	Sari-Moghanak (NIOEC)	CP-40.315	1500	15	33.18	2	E.Motor	5.5	87	2075
62	OVH	OILMICO	CP-40.250	3000	20	71	2	E.Motor	15	87	2042
63	B.B	OILMICO	VENUS1-250.650	1500	350	122	1	E.Motor	315	87	2042
64	B.B	OILMICO	VENUS1-250.650	1500	350	122	1	DIESEL	308	87	2042
65	OVH	SADID JAHAN SANAAT	CP-40.250	3000	20	71.5	2	E.Motor	15	88	1013
66	B.B	SADID JAHAN SANAAT	VENUS1-250.650	1500	400	122.5	1	E.Motor	280	88	1013
67	B.B	SADID JAHAN SANAAT	VENUS1-200.510	1800	400	122.5	1	Diesel	288	88	1013
68	B.B	OEID	HG2-150.400	1500	270	103	1	Diesel	158	87	1026
69	OVH	OEID	CP-40.200	3000	27	52.56	2	E.Motor	15	87	1026
70	B.B	OEID	VENUS1-200.500	1500	360	102	1	E.Motor	200	87	1026
71	B.B	OEID	VENUS1-200.500	1500	360	102	1	Diesel	216	87	1026
72	OVH	OEID	CP-50.250	3000	36	54.64	2	E.Motor	15	87	1026
73	B.B	PARS TEHRAN	HGT1-200.500A	1500	350	100.4	1	Diesel	135	87	1009
74	OVH	TASDID	CP-40.250	3000	20	71.5	2	E.Motor	18.5	86	2038
75	B.B	TASDID	HGT1-125.315	3000	350	128	1	E.Motor	200	86	2038
76	B.B	TASDID	HGT1-200.500A	1800	350	128	1	Diesel	273	86	2038
77	B.B	Hormoz Energy Co.	Venus1-125.315	3000	240	100	2	E.Motor	132	87	1073
78	B.B	Hormoz Energy Co.	Venus1-200.500	1500	480	100	1	Diesel	240	87	1073
79	V.I.L	Hormoz Energy Co.	SV-420	3000	6	100	2	E.Motor	4	87	1073
80	B.B	NikName jonoub Co./ NISOC	HG1-80.315	3000	120	120	1	E.Motor	75	88	1019
81	B.B	NikName jonoub Co./ NISOC	HG2-100.400	1800	120	120	1	Diesel	87	88	1019
82	OVH	NikName jonoub Co./ NISOC	NC1-40.230	3000	20	45	2	E.Motor	7.5	88	1019

*) **B.B:** Between Bearing split case;**OVH:** horizontal Overhung; **V.S.P:** vertical suspended propeller type; **V.S.M:** vertical suspended mixed flow type; **V.I.L:** vertical in-line type

NFPA Pumps

Fire Fighting PUMPS (NFPA 20)

Row	Type of Pump	Client / End User	Name Of Pump	rpm	Q (m3/hr)	H(m)	QTY.	Driver	KW	JOB NO.	
83	B.B	Simin Taban Lorestan / NISOC	HGT1-125.315	3000	300	106	1	E.Motor	150	89	1002
84	B.B	Simin Taban Lorestan / NISOC	HGT1-200.500A	1800	420	106	1	Diesel	284	89	1002
85	OVH	Simin Taban Lorestan / NISOC	CP-40.250	3000	15	60.46	2	E.Motor	11	89	1002
86	OVH	Simin Taban Lorestan / NISOC	CP-40.250	1500	10	22	1	E.Motor	3	89	1002
87	B.B	M.S.A. Eng. & Cons. Co./ Arvandan Oil&Gas Co.	venus1-300.650	1500			1	E.Motor	420	88	1094
88	B.B	M.S.A. Eng. & Cons. Co./ Arvandan Oil&Gas Co.	venus1-300.650	1500			1	Diesel	420	88	1094
89	OVH	M.S.A. Eng. & Cons. Co./ Arvandan Oil&Gas Co.	CP-40.250	3000	15	60.46	2	E.Motor	11	89	1002
90	B.B	IPMI/ POGC	HGT1-300.650	1500	1100	98	1	E.Motor	500	88	1097
91	B.B	IPMI/ POGC	HGT1-300.650	1500	1100	98	2	Diesel	536	88	1097
92	OVH	IPMI/ POGC	CP-50.315	3000	60	88	2	E.Motor	37	88	1097
93	B.B	TMJ/NISOC	HG2-150.400	1500	200	117.8	2	E-Motor	132	89	1012
94	B.B	TMJ/NISOC	HGT1-200.500A	1500	400	117.8	1	Diesel	288	89	1012
95	OVH	TMJ/NISOC	CPF-40.200	3000	15	51.7	2	E-Motor	7.5	89	1012
96	OVH	TMJ/NISOC	CP-50.135	1500	33	29	1	E-Motor	7.5	89	1012
97	B.B	IRITEC	HGT1-200.500A	1500	300	105	1	E-Motor	200	89	1015
98	B.B	IRITEC	HGT1-200.500A	1500	300	105	1	Diesel	216	89	1015
99	B.B	Gachsaran Oil & Gas Co.	HGT1-300.650	1800	1000	150	1	Diesel	660	89	1074
100	B.B	PGSOC/Bandar Abbas Gas Condensate refinery	HGT1-300.650	1500	818	118.46	5	E.Motor	450	87	1087
101	B.B	PGSOC/Bandar Abbas Gas Condensate refinery	HGT1-300.650	1500	818	118.46	5	Diesel	450	87	1087
102	OVH	PGSOC/Bandar Abbas Gas Condensate refinery	CP-80.315	3000	113	115.64	2	E.Motor	90	87	1087
103	OVH	NIORDC/Bandar Abbas refinery	CP-40.200	3000	15	50	2	E.Motor	9.2	89	1113
104	B.B	Disk Arak Co. / ICOFC (sabzabII pump station)	HGT1-300.650	1500	1000	107	1	E.Motor	450	90	1041
105	B.B	Disk Arak Co. / ICOFC (sabzabII pump station)	HGT1-300.650	1500	1000	107	2	Diesel	450	90	1041
106	V.I.L	Disk Arak Co. / ICOFC (sabzabII pump station)	SV3306/2A	3000	30	108	2	E.Motor	15	90	1041
107	BB	Haftkel / petropart - MDE	VENUS1-200.500	1500	180	100	1	E. MOTOR	250	89	1016
108	BB	Haftkel / petropart - MDE	VENUS1-200.500	1500	480	100	1	Diesel	280	89	1016
109	OH	Haftkel / petropart - MDE	CP-40.250	3000	15	60	2	E.Motor	11	89	1016
110	BB	Damavan Petrochemical / SPEC	HGT1-300.650	1500	1100	109	3	Diesel	536	89	1053
111	BB	Damavan Petrochemical / SPEC	HGT1-300.650	1500	1100	109	2	E.Motor	500	89	1053
112	OH	Damavan Petrochemical / SPEC	CP-80.250	3000	68	69	2	E.Motor	30	89	1053

*) **B.B:** Between Bearing split case;**OVH:** horizontal Overhung; **V.S.P:** vertical suspended propeller type; **V.S.M:** vertical suspended mixed flow type; **V.I.L:** vertical in-line type

NFPA Pumps

Fire Fighting PUMPS (NFPA 20)											5 of 5
Row	Type of Pump	**Client / End User**	Name Of Pump	rpm	Q (m3/hr)	H(m)	QTY.	Driver	KW	JOB NO.	
113	OH2	Phase 20,21 / OIEC	CP-40.315	3000	30	116.4	2	E.Motor	30	90	1007
114	BB	Phase 20,21 / OIEC	HGT1-300.650	1500	1125	123.5	2	Diesel	430	90	1007
115	BB	Phase 20,21 / OIEC	HGT1-300.650	1500	1125	123.5	2	Diesel	400	90	1007
116	OH2	Arak Petrochemical / SPEC	CP-40.315	3000	33	102.2	1	E.Motor	30	90	1099
117	BB	Arak Petrochemical / SPEC	HGT1-125.315	3000	230	100	1	E.Motor	132	90	1099
118	BB	Arak Petrochemical / SPEC	HGT1-200.500	1800	460	100	2	Diesel	288	90	1099
119	BB	North Azadegan oil Field/CPECC	HGT1-200.500A	1800	341	120	2	Diesel	288	91	1060
120	BB	North Azadegan oil Field/CPECC	HGT1-125.315	3000	341	120	1	E.Motor	200	91	1060
121	OH	North Azadegan oil Field/CPECC	CP-40.315	3000	15	130	2	E.Motor	30	91	1060

*) **B.B:** Between Bearing split case;**OVH:** horizontal Overhung; **V.S.P:** vertical suspended propeller type; **V.S.M:** vertical suspended mixed flow type; **V.I.L:** vertical in-line type

NFPA Pumps

Fire Fighting PUMPS (NFPA 20)

Row	Type of Pump	Client / End User	Name Of Pump	rpm	Q (m3/hr)	H(m)	QTY.	Driver	KW	JOB NO.	
1	B.B	Khotote Loole va Mokhaberat Naft	HG1-150.500	1800	300-400	120	41	Diesel	276	79	1221
2	B.B	Khotote Loole va Mokhaberat Naft	HG2-150.400	1500	300	120	55	E.Motor	200	79	1221
3	B.B	National Iranian Oil Product Refining & Distributing Co.	HG1-150.500	1800	273	130	6	Diesel	190	78	1037
4	B.B	National Iranian Oil Product Refining & Distributing Co.	HG1-150.500	1500	273	130	16	Diesel	160	79	1234
5	B.B	National Iranian Oil Product Refining & Distributing Co.	WDS-4L13	3000	216	130	20	E.Motor	160	78	1022
6	B.B	I.C.O.F.C.	HG2-150.400	1500	287	107	1	Diesel	220	85	1110
7	B.B	I.C.O.F.C.	HG2-150.400	1500	287	107	1	E-Motor	160	85	1110
8	B.B	Iran Central Oil Fields Company	HGT1- 250.650	1500	600	122	1	E-Motor	355	86	1052
9	B.B	Iran Central Oil Fields Company	HGT1- 250.650		600	122	2	Diesel	420	86	1052
10	B.B	N.I.O.P.D.C	HGT1-125.315	3000	227	130	3	E-Motor	165	86	1051
11	B.B	N.I.O.P.D.C	HGT1-250.650	1500	681	130	2	Diesel	494	86	1051
12	B.B	NISOC	HGT1-200.500A	1800	320	122.7	1	Diesel	200	85	1064
13	B.B	NISOC	HGT1-125.315	3000	320	123	1	E.Motor	200	85	1064
14	B.B	S.O.I.Z (NISOC)	HG2-150.400	1500	273	115.5	1	E.Motor	160	78	1073
15	B.B	S.O.I.Z (NISOC)	HGT1-125.315	3000	341	124	1	E.Motor	200	80	1142
16	B.B	M.O.I.Z (I.C.O.F.C)	HGT1-125.315	3000	270	107	4	Emotor/Diesel	126	79	1212
17	B.B	Kherad/ POGC	HGT1-250.650	1500	610	118.6	1	E.Motor	350	87	1037
18	B.B	Kherad/ POGC	HGT1-250.650	1500	610	118.6	2	Diesel	352	87	1037
19	B.B	Kherad/ POGC	HGT1-250.650	1500	487	147	1	E.Motor	400	87	1037
20	B.B	Kherad/ POGC	HGT1-250.650	1500	487	147	2	Diesel	392	87	1037
21	OVH	Kherad/ POGC	CP-40.315	3000	30	118.6	2	E.Motor	30	87	1037
22	OVH	Kherad/ POGC	CP-40.315	3000	30	147	2	E.Motor	37	87	1037
23	B.B	Abadan Refinery	HG2-150.400	1800	425	112	5	Diesel	213	85	2033
24	B.B	Razi Petrochemical Complex	HGT1-200.500A	1500	460	92	1	Diesel	180	80	1108
25	B.B	Cala Naft Tehran	HG2-125.400	1500	150	100	8	Emotor/Diesel	70	78	1021
26	B.B	SPEC	HGT1-300.650	1500	875	113	4	Emotor/Diesel	560	81	1022

*) **B.B:** Between Bearing split case;**OVH:** horizontal Overhung; **V.S.P:** vertical suspended propeller type; **V.S.M:** vertical suspended mixed flow type; **V.I.L:** vertical in-line type

Fire Fighting PUMPS (NFPA 20)

Row	Type of Pump	Client / End User	Name Of Pump	rpm	Q (m3/hr)	H(m)	QTY.	Driver	KW	JOB NO.	
27	B.B	SPEC	NC1-50.340S	3000	45	113	2	E.Motor	45	81	1022
28	B.B	National Iranian Cupper Industries Co.	HG1-80.315	3000	120	120	2	Emotor/Diesel	68	81	1057
29	B.B	Chegalesh Co.	HG1-80.315	3000	110	119	1	Diesel	100	84	2063
30	B.B	Tehran Mirab	HG2-100.400	1500	87	86	4	E.Motor	45	85	2008
31	B.B	Saman J.V. Group	HG2-100.400	1500	110	105	2	Emotor/Diesel	45	83	1184.1
32	B.B	Khark Iland	HG2-150.500	1800	330	230	2	Diesel	492	84	2068
33	B.B	Zhalke Company	HG2-100.400	1500	135	100	4	E.Motor	75	85	1074
34	B.B	Sadra Dry Dock	HGT1-125.315	1500	320	120	4	Emotor/Diesel	167	80	1112
35	B.B	T.I.J.D J.V Groupe	HGT1-250.650	1500	682	120	2	Diesel	466	82	1275
36	B.B	T.I.J.D J.V Groupe	HGT1-250.650	1500	682	120	2	E.Motor	400	82	1275
37	B.B	T.I.J.D J.V Groupe	HGT1-300.800Z	1500	1105	157	2	Diesel	1066	82	1275
38	B.B	T.I.J.D J.V Groupe	HGT1-300.800Z	1500	1105	157	1	E.Motor	900	82	1275
39	B.B	Saman J.V. Group	HGT1-300.650	1500	850	105	6	Emotor/Diesel	466	83	1184.1
40	B.B	Khishavand Co./Tange Bijar (ICOFC)	HGT1-125.315	3000	270	100	1	E.Motor	150	83	1370
41	B.B	Khishavand Co./Tange Bijar (ICOFC)	HGT1-200.500A	1800	540	100	1	Diesel	285	83	1370
42	B.B	Zhalke Company	HGT1-200.500A	1500	400	100	1	Diesel	75	85	1074
43	B.B	Hirbodan-Imam Taghi Station	HGT1-300.650	1500	730	102	2	Diesel	412	85	2070
44	B.B	Hirbodan-Imam Taghi Station	HGT1-300.650	1500	730	102	1	E.Motor	400	85	2070
45	B.B	Hirbodan-Ahvaz Bangestan	HGT1-200.500A	1500	350	100.4	1	Diesel	190	85	1102
46	B.B	Hirbodan-Ahvaz Bangestan	HGT1-200.500A	1500	400	100	1	E.Motor	200	85	1102
47	B.B	Bina Consulting Engineering	HGT1-200.500A	1800	350	119	1	Diesel	247	85	1091
48	B.B	Bina Consulting Engineering	HGT1-200.500A	1500	350	100.4	1	E.Motor	200	85	1091
49	B.B	Norahan Sanaye / Ilam petrochemical	HGT1-300.650	1500	1000	100	5	Emotor/Diesel	440	85	1068
50	B.B	TARAZ CO.	VENUS1-200.510	1500	454	110	2	Emotor/Diesel	285	85	1119
51	B.B	Sari-Moghanak (NIOEC)	HGT1-250.650	1500	536	115.8	1	E.Motor	300	87	2075
52	B.B	Sari-Moghanak (NIOEC)	HGT1-250.650	1500	536	115.8	2	Diesel	350	87	2075
53	B.B	Shazand Arak Refinery (NIOEC)	HGT1-300.650	1500	908	109	1	Diesel	505	86	2013/5
54	B.B	Shazand Arak Refinery (NIOEC)	HGT1-300.650	1500	908	109	1	E.Motor	500	86	2013/5

*) **B.B:** Between Bearing split case;**OVH:** horizontal Overhung; **V.S.P:** vertical suspended propeller type; **V.S.M:** vertical suspended mixed flow type; **V.I.L:** vertical in-line type

Fire Fighting PUMPS (NFPA 20)

Row	Type of Pump	Client / End User	Name Of Pump	rpm	Q (m3/hr)	H(m)	QTY.	Driver	KW	JOB NO.	
55	B.B	Sari-Moghanak (NIOEC)	HGT1-300.650	1500	830	115.8	2	E.Motor	420	87	2075
56	B.B	Sari-Moghanak (NIOEC)	HGT1-300.650	1500	830	115.8	2	Diesel	435	87	2075
57	OVH	T.I.J.D J.V Groupe	NC1-50.340S	3000	68	120	2	E.Motor	55	82	1275
58	OVH	T.I.J.D J.V Groupe	NC2-65.280	3000	68	157	2	E.Motor	75	82	1275
59	OVH	Norahan Sanaye	NC1-50.279	3000	60	60	2	E.Motor	22	85	1068
60	OVH	Sari-Moghanak (NIOEC)	CP-40.315	1500	15	33.18	2	E.Motor	5.5	87	2075
61	OVH	Sari-Moghanak (NIOEC)	CP-40.315	1500	15	33.18	2	E.Motor	5.5	87	2075
62	OVH	OILMICO	CP-40.250	3000	20	71	2	E.Motor	15	87	2042
63	B.B	OILMICO	VENUS1-250.650	1500	350	122	1	E.Motor	315	87	2042
64	B.B	OILMICO	VENUS1-250.650	1500	350	122	1	DIESEL	308	87	2042
65	OVH	SADID JAHAN SANAAT	CP-40.250	3000	20	71.5	2	E.Motor	15	88	1013
66	B.B	SADID JAHAN SANAAT	VENUS1-250.650	1500	400	122.5	1	E.Motor	280	88	1013
67	B.B	SADID JAHAN SANAAT	VENUS1-200.510	1800	400	122.5	1	Diesel	288	88	1013
68	B.B	OEID	HG2-150.400	1500	270	103	1	Diesel	158	87	1026
69	OVH	OEID	CP-40.200	3000	27	52.56	2	E.Motor	15	87	1026
70	B.B	OEID	VENUS1-200.500	1500	360	102	1	E.Motor	200	87	1026
71	B.B	OEID	VENUS1-200.500	1500	360	102	1	Diesel	216	87	1026
72	OVH	OEID	CP-50.250	3000	36	54.64	2	E.Motor	15	87	1026
73	B.B	PARS TEHRAN	HGT1-200.500A	1500	350	100.4	1	Diesel	135	87	1009
74	OVH	TASDID	CP-40.250	3000	20	71.5	2	E.Motor	18.5	86	2038
75	B.B	TASDID	HGT1-125.315	3000	350	128	1	E.Motor	200	86	2038
76	B.B	TASDID	HGT1-200.500A	1800	350	128	1	Diesel	273	86	2038
77	B.B	Hormoz Energy Co.	Venus1-125.315	3000	240	100	2	E.Motor	132	87	1073
78	B.B	Hormoz Energy Co.	Venus1-200.500	1500	480	100	1	Diesel	240	87	1073
79	V.I.L	Hormoz Energy Co.	SV-420	3000	6	100	2	E.Motor	4	87	1073
80	B.B	NikName jonoub Co./ NISOC	HG1-80.315	3000	120	120	1	E.Motor	75	88	1019
81	B.B	NikName jonoub Co./ NISOC	HG2-100.400	1800	120	120	1	Diesel	87	88	1019
82	OVH	NikName jonoub Co./ NISOC	NC1-40.230	3000	20	45	2	E.Motor	7.5	88	1019

*) **B.B:** Between Bearing split case;**OVH:** horizontal Overhung; **V.S.P:** vertical suspended propeller type; **V.S.M:** vertical suspended mixed flow type; **V.I.L:** vertical in-line type

NFPA Pumps

Fire Fighting PUMPS (NFPA 20)

Row	Type of Pump	Client / End User	Name Of Pump	rpm	Q (m3/hr)	H(m)	QTY.	Driver	KW	JOB NO.	
83	B.B	Simin Taban Lorestan / NISOC	HGT1-125.315	3000	300	106	1	E.Motor	150	89	1002
84	B.B	Simin Taban Lorestan / NISOC	HGT1-200.500A	1800	420	106	1	Diesel	284	89	1002
85	OVH	Simin Taban Lorestan / NISOC	CP-40.250	3000	15	60.46	2	E.Motor	11	89	1002
86	OVH	Simin Taban Lorestan / NISOC	CP-40.250	1500	10	22	1	E.Motor	3	89	1002
87	B.B	M.S.A. Eng. & Cons. Co./ Arvandan Oil&Gas Co.	venus1-300.650	1500			1	E.Motor	420	88	1094
88	B.B	M.S.A. Eng. & Cons. Co./ Arvandan Oil&Gas Co.	venus1-300.650	1500			1	Diesel	420	88	1094
89	OVH	M.S.A. Eng. & Cons. Co./ Arvandan Oil&Gas Co.	CP-40.250	3000	15	60.46	2	E.Motor	11	89	1002
90	B.B	IPMI/ POGC	HGT1-300.650	1500	1100	98	1	E.Motor	500	88	1097
91	B.B	IPMI/ POGC	HGT1-300.650	1500	1100	98	2	Diesel	536	88	1097
92	OVH	IPMI/ POGC	CP-50.315	3000	60	88	2	E.Motor	37	88	1097
93	B.B	TMJ/NISOC	HG2-150.400	1500	200	117.8	2	E-Motor	132	89	1012
94	B.B	TMJ/NISOC	HGT1-200.500A	1500	400	117.8	1	Diesel	288	89	1012
95	OVH	TMJ/NISOC	CPF-40.200	3000	15	51.7	2	E-Motor	7.5	89	1012
96	OVH	TMJ/NISOC	CP-50.135	1500	33	29	1	E-Motor	7.5	89	1012
97	B.B	IRITEC	HGT1-200.500A	1500	300	105	1	E-Motor	200	89	1015
98	B.B	IRITEC	HGT1-200.500A	1500	300	105	1	Diesel	216	89	1015
99	B.B	Gachsaran Oil & Gas Co.	HGT1-300.650	1800	1000	150	1	Diesel	660	89	1074
100	B.B	PGSOC/Bandar Abbas Gas Condensate refinery	HGT1-300.650	1500	818	118.46	5	E.Motor	450	87	1087
101	B.B	PGSOC/Bandar Abbas Gas Condensate refinery	HGT1-300.650	1500	818	118.46	5	Diesel	450	87	1087
102	OVH	PGSOC/Bandar Abbas Gas Condensate refinery	CP-80.315	3000	113	115.64	2	E.Motor	90	87	1087
103	OVH	NIORDC/Bandar Abbas refinery	CP-40.200	3000	15	50	2	E.Motor	9.2	89	1113
104	B.B	Disk Arak Co. / ICOFC (sabzabII pump station)	HGT1-300.650	1500	1000	107	1	E.Motor	450	90	1041
105	B.B	Disk Arak Co. / ICOFC (sabzabII pump station)	HGT1-300.650	1500	1000	107	2	Diesel	450	90	1041
106	V.I.L	Disk Arak Co. / ICOFC (sabzabII pump station)	SV3306/2A	3000	30	108	2	E.Motor	15	90	1041
107	BB	Haftkel / petropart - MDE	VENUS1-200.500	1500	180	100	1	E. MOTOR	250	89	1016
108	BB	Haftkel / petropart - MDE	VENUS1-200.500	1500	480	100	1	Diesel	280	89	1016
109	OH	Haftkel / petropart - MDE	CP-40.250	3000	15	60	2	E.Motor	11	89	1016
110	BB	Damavan Petrochemical / SPEC	HGT1-300.650	1500	1100	109	3	Diesel	536	89	1053
111	BB	Damavan Petrochemical / SPEC	HGT1-300.650	1500	1100	109	2	E.Motor	500	89	1053
112	OH	Damavan Petrochemical / SPEC	CP-80.250	3000	68	69	2	E.Motor	30	89	1053

*) **B.B:** Between Bearing split case;**OVH:** horizontal Overhung; **V.S.P:** vertical suspended propeller type; **V.S.M:** vertical suspended mixed flow type; **V.I.L:** vertical in-line type

NFPA Pumps

Fire Fighting PUMPS (NFPA 20)

Row	Type of Pump	Client / End User	Name Of Pump	rpm	Q (m3/hr)	H(m)	QTY.	Driver	KW	JOB NO.	
113	OH2	Phase 20,21 / OIEC	CP-40.315	3000	30	116.4	2	E.Motor	30	90	1007
114	BB	Phase 20,21 / OIEC	HGT1-300.650	1500	1125	123.5	2	Diesel	430	90	1007
115	BB	Phase 20,21 / OIEC	HGT1-300.650	1500	1125	123.5	2	Diesel	400	90	1007
116	OH2	Arak Petrochemical / SPEC	CP-40.315	3000	33	102.2	1	E.Motor	30	90	1099
117	BB	Arak Petrochemical / SPEC	HGT1-125.315	3000	230	100	1	E.Motor	132	90	1099
118	BB	Arak Petrochemical / SPEC	HGT1-200.500	1800	460	100	2	Diesel	288	90	1099
119	BB	North Azadegan oil Field/CPECC	HGT1-200.500A	1800	341	120	2	Diesel	288	91	1060
120	BB	North Azadegan oil Field/CPECC	HGT1-125.315	3000	341	120	1	E.Motor	200	91	1060
121	OH	North Azadegan oil Field/CPECC	CP-40.315	3000	15	130	2	E.Motor	30	91	1060
122	BB	NIOEC	VENUS1-300.500	1800	1350	127	2	Diesel	650	92	1004
123	BB	Sam Peyman Gachsaran	VenUS1-200.510	1500	250	112	1	Diesel	183	93	4127
124	BB	Sam Peyman Gachsaran	VenUS1-200.510	1500	209	116	1	Diesel	183	93	4127
125	BB	Darya Sahel	HGT1-150.315	3000	386	111	1	E.Motor	200	89	1130
126	BB	Darya Sahel	HGT1-200.500A	1800	386	111	1	Diesel	248	89	1130
127	OH2	Darya Sahel	CP-40.250	3000	16.5	62	2	E.Motor	15	89	1130
128	OVH	Pars Tehran / Ilam Petrochemical	NC1-50.280	3000	60	60	2	E.Motor	22	93	4217
129	BB	Karoon oil & gas	VENUS1-200.510	1750	360	122.3	1	Diesel	296	93	4130
130	BB	Karoon oil & gas	VENUS1-200.510	1750	360	122.3	1	Diesel	296	93	4131

*) **B.B:** Between Bearing split case;**OVH:** horizontal Overhung; **V.S.P:** vertical suspended propeller type; **V.S.M:** vertical suspended mixed flow type; **V.I.L:** vertical in-line type