

MNV SERIES BOOSTER UNITS

GENERAL FEATURES

It has a vertical shaft and a multistage pump. These are high-capacity booster unit whose pump impeller and diffusers are made out of NORYL (thermoplastic material), outlet casing and inlet casing are made of GG25 cast iron, outer cover and shaft out of stainless steel. It is used where there is a constant demand for pressure and water, such as apartment blocks, schools, hospitals, factories, housing estates and business centers. The pumps are delivered as mounted on steel plate base. These pumps do not require periodical maintenance. Besides, these types of booster unit have panels with a self-testing ability. They can be used as fire booster unit with the use of an extra solenoid valve. To start the package booster unit it is enough to couple the suction collector to the installation and attach the energy cable to the panel.

MATERIALS DELIVERED WITH THE BOOSTER UNIT

- Inlet and outlet collector
- Full bore brass valves
- Quiet-running rocket-type check valves
- Float switch with a 5 m cable that prevents running without water
- Control panels mounted on chassis, with well-equipped sequence exchanging quality, P.01 up to 5.5 kW, and Y/D liftoff with 7,5 kW and higher
- Vibration-preventing elastic wedges

OPERATING LIMITS

- Temperature range of the liquid: 20-60°C
- Ambient operating temperature: 40°C
- Maximum permissible pressure: 25 BAR

FEATURES

- Sequential operation, according to water demand
- Pump exchange after each operation
- Pausing the pumps when suction is out of water
- Delaying during the activation of the 2nd and 3rd pumps
- Delaying during the disengagement of the 2nd and 3rd pumps
- Being able to read the voltage between phases through the screen on the microprocessor unit
- Being able to read the failure through the microprocessor
- Displaying all operations on the control panel
- Besides, there is an additional manual switch on the side surface of the panel (in 5.5 kw and higher models)



PANELS USED IN THE TEKNOPOMP BOOSTER UNITS

Our new booster control panels respond the needs of all sorts of pump and booster operations thanks to microprocessor electronic cards.

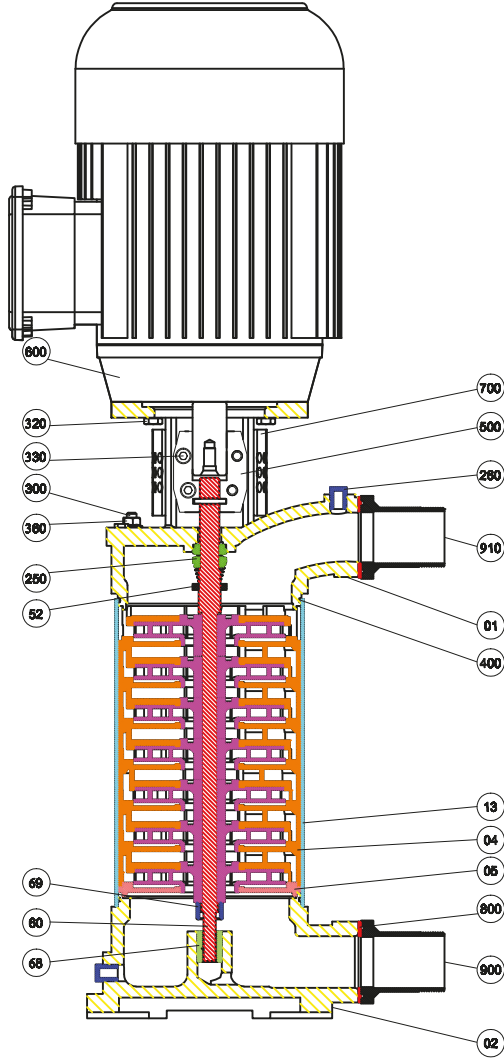
THE MOTOR

Standard type B14 flanged, 2 pole, three-phase, 50 Hz electric motor (2900 rpm)
 Insulation Class: F
 Protection Class: IP 55

OPTIONAL FEATURES

Energy saving and comfort through control panels with frequency converter.

QUALITIES OF MNV SERIES PUMPS



No	Name of the Part	Material / Quality
01	Outlet Casing	GG 22
02	Inlet Casing	GG 22
04	Dif. Stage	NORYL
05	Dif. Cap	GG 22
13	Pump Armor	AISI 304
20	Impeller	NORYL
52	Ring	Brass
60	Shaft	AISI 420
68	Thrust Tire	
69	Thrust Nut	Brass
250	Mechanical Seal	RT130
260	Blind Cap	Brass
300	Lateral Stud	-
320	Hexagon Bolt	
330	Allen Bolt	
400	O-Ring	NBR
500	Coupling	GGG 400
600	Motor	B14 Flanged
700	Coupling Protector	Metal Plate
800	Gasket	NBR
900	Inlet Flange	Flange + Muff
910	Outlet Flange	Flange + Muff

Construction

MNV series pumps are multistage vertical centrifugal pumps. Inlet flange is below and the transmitter part is above the pump. Inlet casing and outlet casing of the pump comes with flanged of the pump is gear flanged. The pump shaft is made of stainless steel and bedding is backed with radial bearing made of casternid below the pump. As all the bushes are made of brass, they do not oxidize. The coupling connection is made of nodular cast iron and is lamina coupling

Application

It can be used in the transferring water that does not contain solid particles, is not corrosive, or does not involve explosive liquid For example, in booster unit systems, irrigation, agricultural applications, etc.

Operating Limits

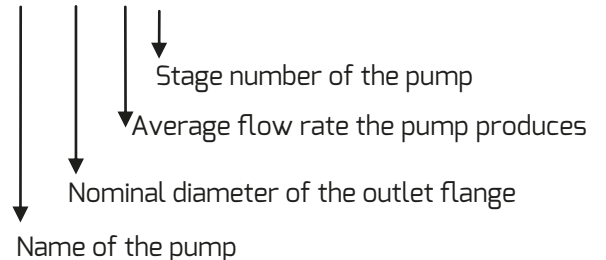
Temperature range of the liquid: 20-60°C
Ambient operating temperature: 40°C
Maximum working pressure: 16 bar

The Motor

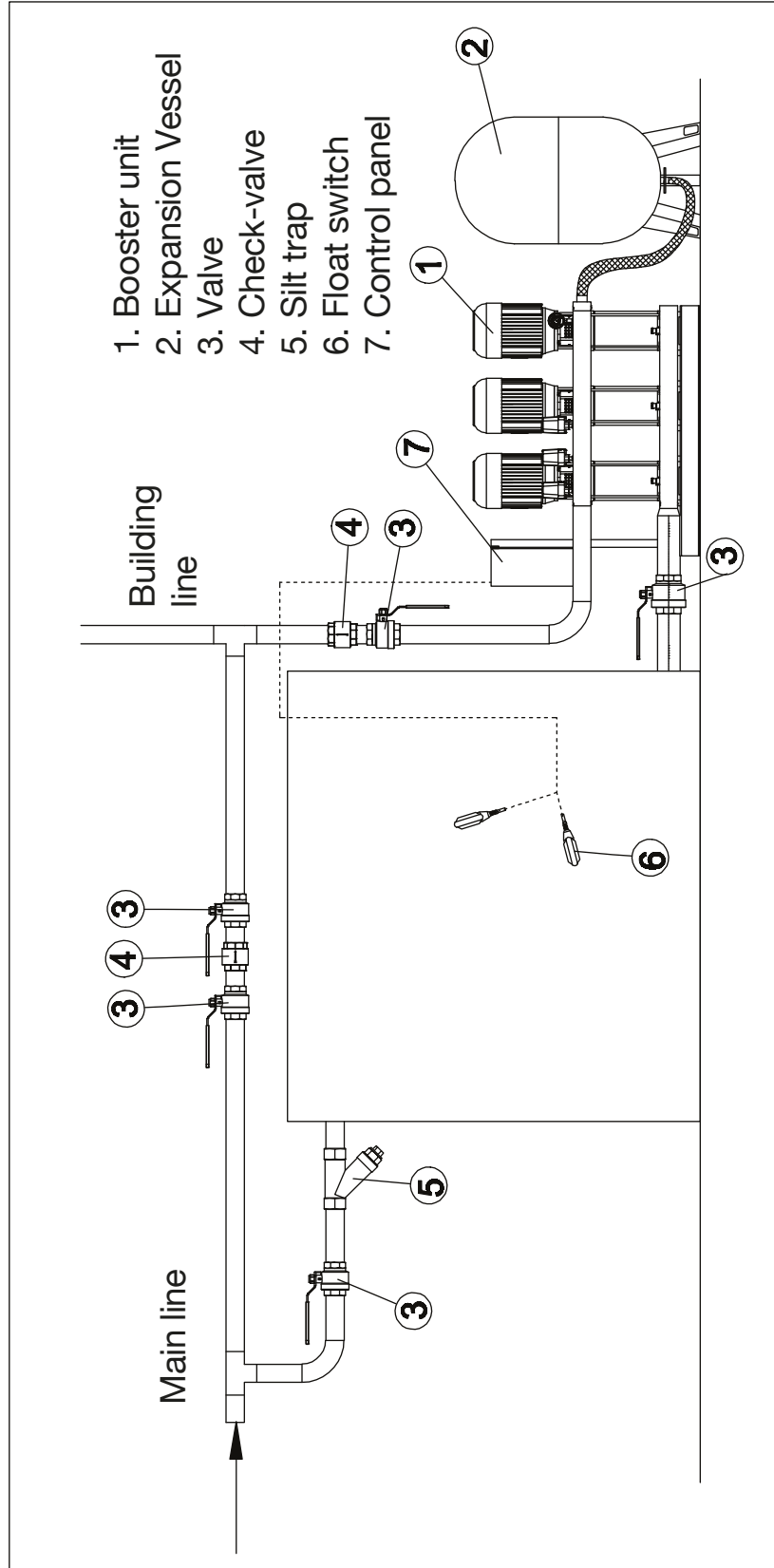
Standard type B14 flanged, bipolar, three-phase, 50 Hz electric motor (2900 revolutions per minute)
Insulation Class: F
Protection Class: IP 55

Coding

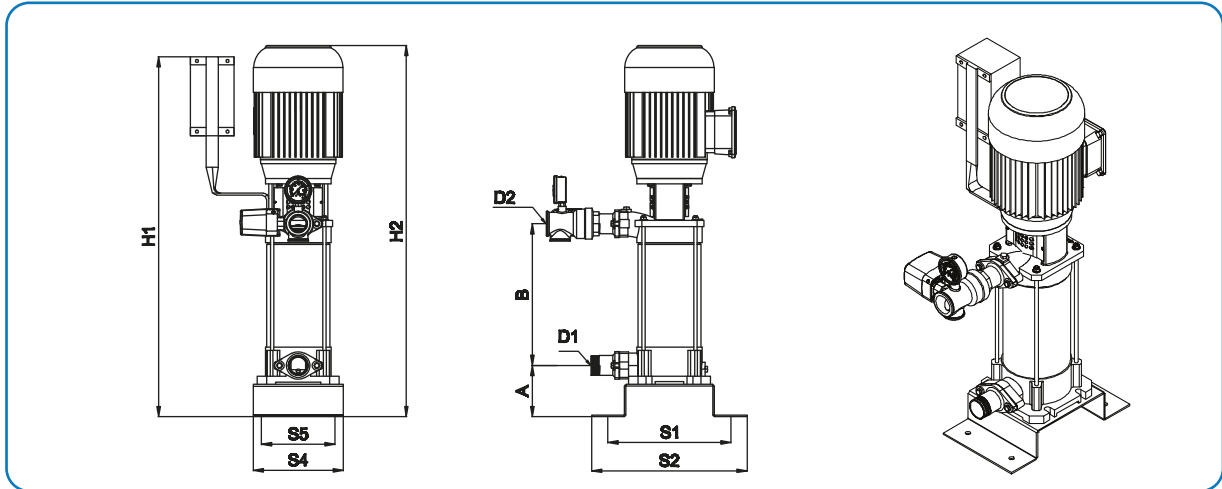
MNV 32 - 609



BOOSTER UNIT INSTALLATION PLAN



MNV SERIES SINGLE PUMP BOOSTER SET DIMENSIONS



TYPE	MOTOR kW	D1 - D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x MNV 25-205	0,75	1 1/4" - 1"	85	202	600	627	270	320	12	250	170
1 x MNV 25-206	0,75	1 1/4" - 1"	85	224	600	649	270	320	12	250	170
1 x MNV 25-207	1,1	1 1/4" - 1"	85	248	600	671	270	320	12	250	170
1 x MNV 25-208	1,1	1 1/4" - 1"	85	268	600	682	270	320	12	250	170
1 x MNV 25-209	1,1	1 1/4" - 1"	85	290	700	715	270	320	12	250	170
1 x MNV 25-210	1,5	1 1/4" - 1"	85	312	700	740	270	320	12	250	170
1 x MNV 25-211	1,5	1 1/4" - 1"	85	334	700	762	270	320	12	250	170
1 x MNV 25-212	1,5	1 1/4" - 1"	85	356	700	784	270	320	12	250	170

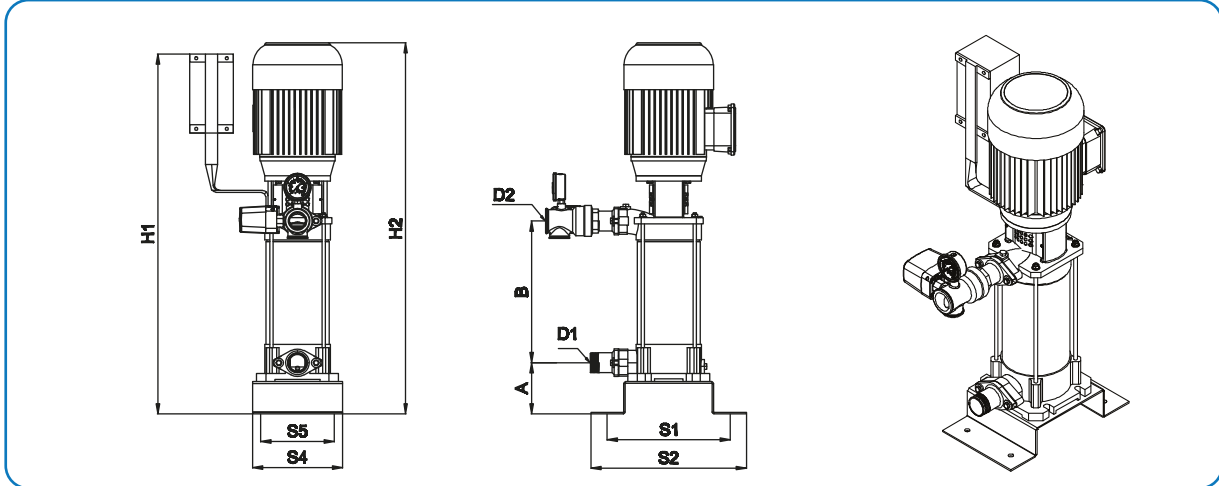
TYPE	MOTOR kW	D1 - D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x MNV 32-408	1,5	1 1/4" - 1 1/4"	90	345	790		240	350	12	300	280
1 x MNV 32-410	2,2	1 1/4" - 1 1/4"	90	415	870		240	350	12	300	280
1 x MNV 32-412	3	1 1/4" - 1 1/4"	90	485	930		240	350	12	300	280

TYPE	MOTOR kW	D1 - D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x MNV 32-604	1,5	1 1/4" - 1 1/4"	92	202	640	613	330	380	12	280	200
1 x MNV 32-605	2,2	1 1/4" - 1 1/4"	92	230	640	641	330	380	12	280	200
1 x MNV 32-606	2,2	1 1/4" - 1 1/4"	92	258	640	669	330	380	12	280	200
1 x MNV 32-607	3	1 1/4" - 1 1/4"	92	286	750	723	330	380	12	280	200
1 x MNV 32-608	3	1 1/4" - 1 1/4"	92	314	750	751	330	380	12	280	200
1 x MNV 32-609	3	1 1/4" - 1 1/4"	92	342	750	779	330	380	12	280	200

TYPE	MOTOR kW	D1 - D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x MNV 40-806	2,2	1 1/2" - 1 1/2"	105	360	840		330	380	12	280	200
1 x MNV 40-808	3	1 1/2" - 1 1/2"	105	445	950		330	380	12	280	200
1 x MNV 40-810	4	1 1/2" - 1 1/2"	105	530	1070		330	380	12	280	200
1 x MNV 40-812	5,5	1 1/2" - 1 1/2"	105	615	1200		330	380	12	280	200

TYPE	MOTOR kW	D1 - D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x MNV 40-1203	3	1 1/2" - 1 1/2"	105	203	701	708	330	380	12	280	200
1 x MNV 40-1204	4	1 1/2" - 1 1/2"	105	236	790	785	330	380	12	280	200
1 x MNV 40-1205	5,5	1 1/2" - 1 1/2"	105	267	790	838	330	380	12	280	200
1 x MNV 40-1206	5,5	1 1/2" - 1 1/2"	105	302	865	851	330	380	12	280	200
1 x MNV 40-1207	5,5	1 1/2" - 1 1/2"	105	335	865	884	330	380	12	280	200

MNV SERIES SINGLE PUMP BOOSTER SET DIMENSIONS



TYPE	MOTOR kw	D1 - D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x MNV 50-1504	3	2" - 2"	110	309	850		350	400	12	350	200
1 x MNV 50-1505	4	2" - 2"	110	357	898		350	400	12	350	200
1 x MNV 50-1506	5,5	2" - 2"	110	405	973		350	400	12	350	200
1 x MNV 50-1507	7,5	2" - 2"	110	453	1054		350	400	12	350	200

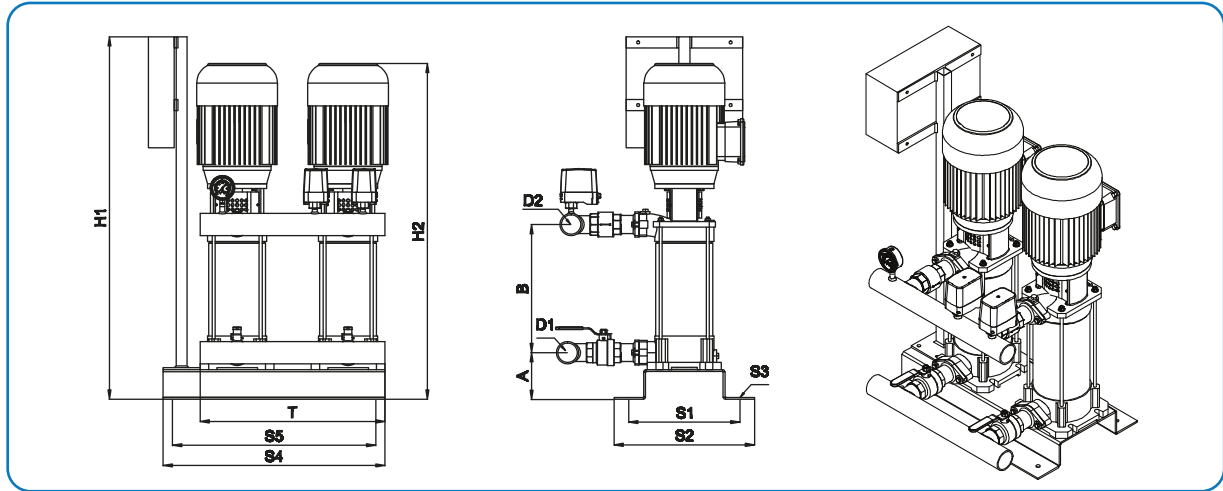
TYPE	MOTOR kw	D1 - D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x MNV 50-2504	5,5	2" - 2"	110	419	877		350	400	12	350	200
1 x MNV 50-2505	7,5	2" - 2"	110	467	958		350	400	12	350	200
1 x MNV 50-2506	7,5	2" - 2"	110	515	1006		350	400	12	350	200
1 x MNV 50-2507	11	2" - 2"	110	563	1054		350	400	12	350	200

TYPE	MOTOR kw	D1 - D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x MNV 50-3503	5,5	2 1/2" - 2 1/2"	110	371	829		350	350	12	350	200
1 x MNV 50-3504	7,5	2 1/2" - 2 1/2"	110	419	910		350	350	12	350	200
1 x MNV 50-3505	11	2 1/2" - 2 1/2"	110	467	958		350	350	12	350	200
1 x MNV 50-3506	11	2 1/2" - 2 1/2"	110	515	1006		350	350	12	350	200
1 x MNV 50-3507	15	2 1/2" - 2 1/2"	110	563	1172		350	350	12	350	200

TYPE	MOTOR kw	D1 - D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x MNV 65-5003	11	3" - 2 1/2"	121	363	1200	1124	360	350	14	300	220
1 x MNV 65-5004	15	3" - 2 1/2"	121	437	1200	1198	360	350	14	300	220
1 x MNV 65-5005	15	3" - 2 1/2"	121	511	1200	1272	360	350	14	300	220
1 x MNV 65-5006	18,5	3" - 2 1/2"	121	585	1200	1346	360	350	14	300	220

TYPE	MOTOR kw	D1 - D2	A	B	H1	H2	S1	S2	S3	S4	S5
1 x MNV 80-6502/B	22	3" - 2 1/2"	For dimension, please contact our firm.								
1 x MNV 80-6502/A	30	3" - 2 1/2"									
1 x MNV 80-6503/B	37	3" - 2 1/2"									
1 x MNV 80-6503/A	45	3" - 2 1/2"									

MNV SERIES TWO PUMP BOOSTER SET DIMENSIONS



TYPE	MOTOR kW	D1 - D2	A	B	H1	H2	S1	S2	S3	S4	S5
2 x MNV 25-205	2x0,75	1 1/2" - 1 1/4"	85	202	600	627	270	320	12	500	420
2 x MNV 25-206	2x0,75	1 1/2" - 1 1/4"	85	224	600	649	270	320	12	500	420
2 x MNV 25-207	2x1,1	1 1/2" - 1 1/4"	85	248	600	671	270	320	12	500	420
2 x MNV 25-208	2x1,1	1 1/2" - 1 1/4"	85	268	600	682	270	320	12	500	420
2 x MNV 25-209	2x1,1	1 1/2" - 1 1/4"	85	290	700	715	270	320	12	500	420
2 x MNV 25-210	2x1,5	1 1/2" - 1 1/4"	85	312	700	740	270	320	12	500	420
2 x MNV 25-211	2x1,5	1 1/2" - 1 1/4"	85	334	700	762	270	320	12	500	420
2 x MNV 25-212	2x1,5	1 1/2" - 1 1/4"	85	356	700	784	270	320	12	500	420

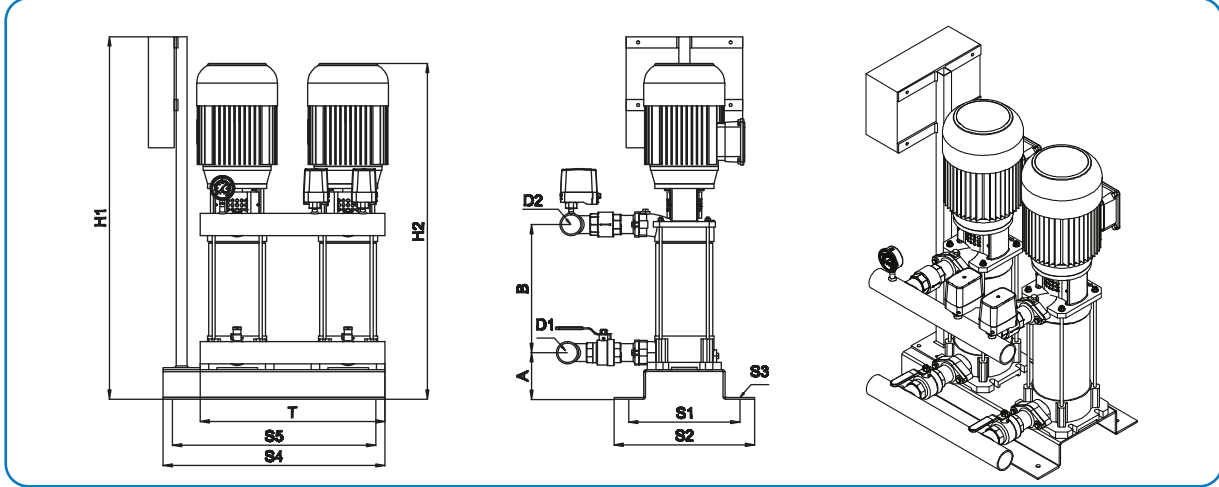
TYPE	MOTOR kW	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
2 x MNV 32-408	2x1,5	1 1/2" - 1 1/2"	90	345	790	240	320	12	550	470	440
2 x MNV 32-410	2x2,2	1 1/2" - 1 1/2"	90	415	870	240	320	12	550	470	440
2 x MNV 32-412	2x3	1 1/2" - 1 1/2"	90	485	930	240	320	12	550	470	440

TYPE	MOTOR kW	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
2 x MNV 32-604	2x1,5	1 1/2" - 1 1/2"	92	202	640	330	380	12	550	470	470
2 x MNV 32-605	2x2,2	1 1/2" - 1 1/2"	92	230	640	330	380	12	550	470	470
2 x MNV 32-606	2x2,2	1 1/2" - 1 1/2"	92	258	640	330	380	12	550	470	470
2 x MNV 32-607	2x3	1 1/2" - 1 1/2"	92	286	750	330	380	12	550	470	470
2 x MNV 32-608	2x3	1 1/2" - 1 1/2"	92	314	750	330	380	12	550	470	470
2 x MNV 32-609	2x3	1 1/2" - 1 1/2"	92	342	750	330	380	12	550	470	470

TYPE	MOTOR kW	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
2 x MNV 40-806	2x2,2	2" - 2"	105	360	840	280	350	12	600	520	540
2 x MNV 40-808	2x3	2" - 2"	105	445	950	280	350	12	600	520	540
2 x MNV 40-810	2x4	2" - 2"	105	530	1070	280	350	12	600	520	540
2 x MNV 40-812	2x5,5	2" - 2"	105	615	1200	280	350	12	600	520	540

TYPE	MOTOR kW	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
2 x MNV 40-1203	2x3	2" - 2"	105	203	701	330	380	12	600	520	500
2 x MNV 40-1204	2x4	2" - 2"	105	236	790	330	380	12	600	520	500
2 x MNV 40-1205	2x5,5	2" - 2"	105	267	790	330	380	12	600	520	500
2 x MNV 40-1206	2x5,5	2" - 2"	105	302	865	330	380	12	600	520	500
2 x MNV 40-1207	2x5,5	2" - 2"	105	335	865	330	380	12	600	520	500

MNV SERIES TWO PUMP BOOSTER SET DIMENSIONS



TYPE	MOTOR kw	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
2 x MNV 50-1504	2x3	3" - 3"	140	309	880	480	560	12	700	520	630
2 x MNV 50-1505	2x4	3" - 3"	140	357	928	480	560	12	700	520	630
2 x MNV 50-1506	2x5,5	3" - 3"	140	405	1003	480	560	12	700	520	630
2 x MNV 50-1507	2x7,5	3" - 3"	140	453	1084	480	560	12	700	520	630

TYPE	MOTOR kw	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
2 x MNV 50-2504	2x5,5	3" - 3"	140	309	880	480	560	12	700	520	630
2 x MNV 50-2505	2x7,5	3" - 3"	140	357	928	480	560	12	700	520	630
2 x MNV 50-2506	2x7,5	3" - 3"	140	405	1003	480	560	12	700	520	630
2 x MNV 50-2507	2x11	3" - 3"	140	453	1084	480	560	12	700	520	630

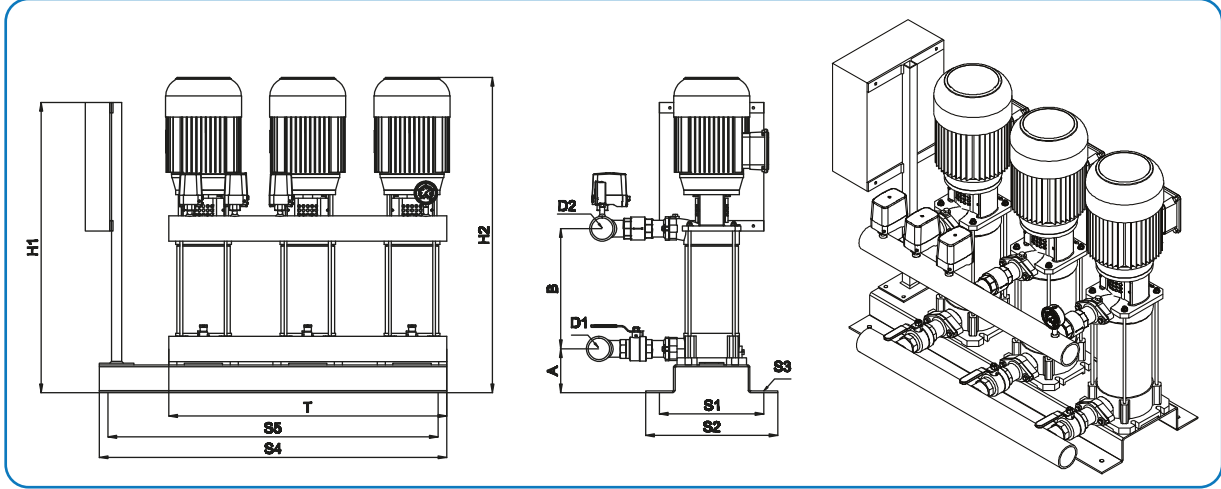
TYPE	MOTOR kw	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
2 x MNV 50-3503	2x5,5	DN100 - 3"	140	261	859	480	560	12	700	520	630
2 x MNV 50-3504	2x7,5	DN100 - 3"	140	309	940	480	560	12	700	520	630
2 x MNV 50-3505	2x11	DN100 - 3"	140	357	988	480	560	12	700	520	630
2 x MNV 50-3506	2x11	DN100 - 3"	140	405	1036	480	560	12	700	520	630
2 x MNV 50-3507	2x15	DN100 - 3"	140	453	1202	480	560	12	700	520	630

TYPE	MOTOR kw	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
2 x MNV 65-5003 Flaşlı	2x11	DN125 - DN125	121	363	1200	330	360	14	725	595	725
2 x MNV 65-5004 Flaşlı	2x15	DN125 - DN125	121	437	1200	330	360	14	725	595	725
2 x MNV 65-5005 Flaşlı	2x15	DN125 - DN125	121	511	1200	330	360	14	725	595	725
2 x MNV 65-5006 Flaşlı	2x18,5	DN125 - DN125	121	585	1200	330	360	14	725	595	725

TYPE	MOTOR kw	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
2 x MNV 80-6502/B	2x22	DN125 - DN125									
2 x MNV 80-6502/A	2x30	DN125 - DN125									
2 x MNV 80-6503/B	2x37	DN125 - DN125									
2 x MNV 80-6503/A	2x45	DN125 - DN125									

For dimension, please contact our firm.

MNV SERIES THREE PUMP BOOSTER SET DIMENSIONS



TYPE	MOTOR kw	D1 - D2	A	B	H1	H2	S1	S2	S3	S4	S5
3 x MNV 25-205	3x0,75	2" - 1 1/2"	85	202	600	627	270	320	12	800	720
3 x MNV 25-206	3x0,75	2" - 1 1/2"	85	224	600	649	270	320	12	800	720
3 x MNV 25-207	3x1,1	2" - 1 1/2"	85	248	600	671	270	320	12	800	720
3 x MNV 25-208	3x1,1	2" - 1 1/2"	85	268	600	682	270	320	12	800	720
3 x MNV 25-209	3x1,1	2" - 1 1/2"	85	290	700	715	270	320	12	800	720
3 x MNV 25-210	3x1,5	2" - 1 1/2"	85	312	700	740	270	320	12	800	720
3 x MNV 25-211	3x1,5	2" - 1 1/2"	85	334	700	762	270	320	12	800	720
3 x MNV 25-212	3x1,5	2" - 1 1/2"	85	356	700	784	270	320	12	800	720

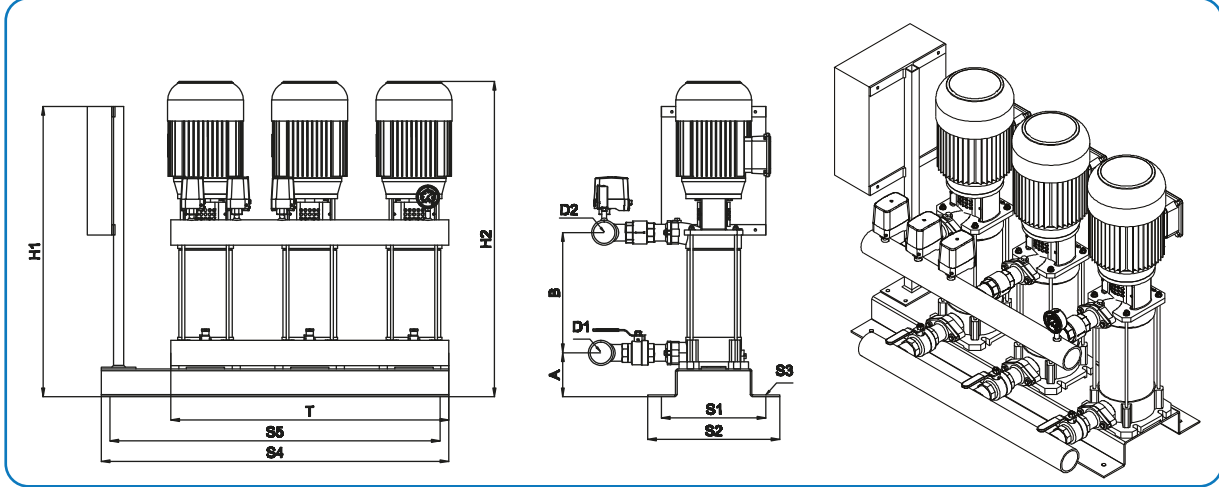
TYPE	MOTOR kw	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x MNV 32-408	3x1,5	2" - 2"	90	345	790	280	350	12	785	770	780
3 x MNV 32-410	3x2,2	2" - 2"	90	415	870	280	350	12	785	770	780
3 x MNV 32-412	3x3	2" - 2"	90	485	930	280	350	12	785	770	780

TYPE	MOTOR kw	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x MNV 32-604	3x1,5	2" - 2"	92	202	640	330	380	12	850	770	740
3 x MNV 32-605	3x2,2	2" - 2"	92	230	640	330	380	12	850	770	740
3 x MNV 32-606	3x2,2	2" - 2"	92	258	640	330	380	12	850	770	740
3 x MNV 32-607	3x3	2" - 2"	92	286	750	330	380	12	850	770	740
3 x MNV 32-608	3x3	2" - 2"	92	314	750	330	380	12	850	770	740
3 x MNV 32-609	3x3	2" - 2"	92	342	750	330	380	12	850	770	740

TYPE	MOTOR kw	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x MNV 40-806	3x2,2	2 1/2" - 2 1/2"	90	375	840	280	350	12	910	820	820
3 x MNV 40-808	3x3	2 1/2" - 2 1/2"	90	460	950	280	350	12	910	820	820
3 x MNV 40-810	3x4	2 1/2" - 2 1/2"	90	545	1070	280	350	12	910	820	820
3 x MNV 40-812	3x5,5	2 1/2" - 2 1/2"	90	630	1200	280	350	12	910	820	820

TYPE	MOTOR kw	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x MNV 40-1203	3x3	2 1/2" - 2 1/2"	105	203	701	330	380	12	900	820	800
3 x MNV 40-1204	3x4	2 1/2" - 2 1/2"	105	236	790	330	380	12	900	820	800
3 x MNV 40-1205	3x5,5	2 1/2" - 2 1/2"	105	267	790	330	380	12	900	820	800
3 x MNV 40-1206	3x5,5	2 1/2" - 2 1/2"	105	302	865	330	380	12	900	820	800
3 x MNV 40-1207	3x5,5	2 1/2" - 2 1/2"	105	335	865	330	380	12	900	820	800

MNV SERIES THREE PUMP BOOSTER SET DIMENSIONS



TYPE	MOTOR kw	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x MNV 50-1504	3x3	DN100 - DN100	140	309	880	480	560	12	1030	700	960
3 x MNV 50-1505	3x4	DN100 - DN100	140	357	928	480	560	12	1030	700	960
3 x MNV 50-1506	3x5,5	DN100 - DN100	140	405	1003	480	560	12	1030	700	960
3 x MNV 50-1507	3x7,5	DN100 - DN100	140	453	1084	480	560	12	1030	700	960

TYPE	MOTOR kw	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x MNV 50-2504	3x5,5	DN100 - DN100	140	309	880	480	560	12	1030	700	960
3 x MNV 50-2505	3x7,5	DN100 - DN100	140	357	928	480	560	12	1030	700	960
3 x MNV 50-2506	3x7,5	DN100 - DN100	140	405	1003	480	560	12	1030	700	960
3 x MNV 50-2507	3x11	DN100 - DN100	140	453	1084	480	560	12	1030	700	960

TYPE	MOTOR kw	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x MNV 50-3503	3x5,5	DN125 - DN100	140	261	859	480	560	12	1030	700	960
3 x MNV 50-3504	3x7,5	DN125 - DN100	140	309	940	480	560	12	1030	700	960
3 x MNV 50-3505	3x11	DN125 - DN100	140	357	988	480	560	12	1030	700	960
3 x MNV 50-3506	3x11	DN125 - DN100	140	405	1036	480	560	12	1030	700	960
3 x MNV 50-3507	3x15	DN125 - DN100	140	453	1202	480	560	12	1030	700	960

TYPE	MOTOR kw	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x MNV 65-5003 Flaşlı	3x11	DN150 - DN125	121	363	1200	330	360	14	1100	970	110
3 x MNV 65-5004 Flaşlı	3x15	DN150 - DN125	121	437	1200	330	360	14	1100	970	110
3 x MNV 65-5005 Flaşlı	3x15	DN150 - DN125	121	511	1200	330	360	14	1100	970	110
3 x MNV 65-5006 Flaşlı	3x18,5	DN150 - DN125	121	585	1200	330	360	14	1100	970	110

TYPE	MOTOR kw	D1 - D2	A	B	H1	S1	S2	S3	S4	S5	T
3 x MNV 80-6502/B	3x22	DN150 - DN150									
3 x MNV 80-6502/A	3x30	DN150 - DN150									
3 x MNV 80-6503/B	3x37	DN150 - DN150									
3 x MNV 80-6503/A	3x45	DN150 - DN150									

For dimension, please contact our firm.