



C.R.I. FLUID SYSTEMS

Pumping trust. Worldwide.



MV & MH Series - 50Hz

Vertical & Horizontal
Multistage Pumps



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Pumping trust. Worldwide.

T H E B E G I N N I N G

of C.R.I., way back in 1961, was a resolute attempt to produce a few irrigation equipments using the limited facilities of an in-house foundry. Eventually the founder's dream was coming true as the small production unit he started kept growing rapidly. Now, after more than five eventful decades, it is an enormous, widely reputed organization, which produces more than 2300 varieties of perfectly engineered pumps and motors and sells its products in numerous countries spread across 6 continents.

C . R . I . I S O N E A M O N G

the few pioneers in the world to produce 100% stainless steel submersible pumps. Having achieved a record production capacity of over 2 million pumps per annum, today C.R.I. is rubbing its shoulders with the best brands in the world, with advanced technology and safety standards as its hallmarks.

THE INFRASTRUCTURE

of C.R.I. is pretty comprehensive with state-of-the-art machineries and high potential in-house R&D recognised by the ministry of science and technology, Govt. of India - all within its own covered area of 300,000 square metres. The production environment is accredited with ISO 9001, ISO 14001 & OHSAS 18001 certifications and the products are CE, UR/UL, IEC, TSE & ISI certified. The R&D team always stays in tune with the changing scenario and seldom fails in coming up with outstanding solutions every time.

N E E D L E S S T O S A Y ,

behind this legendary growth lies the untiring, innovative, enthusiastic and dedicated team work. and, of course, a flawlessly maintained value system too. The name C.R.I. itself encapsulates the company's ethos: " Commitment, Reliability, Innovation".





Vision, Mission and Values

To be the industry leader providing best - in - class fluid management solutions to individual and institutional customers and societies in our chosen markets.

We will achieve this through our dedicated efforts to enhance the welfare of all our stakeholders and by living by our values of commitment, reliability and innovation.

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PRESSURE BOOSTING SYSTEM - MVHS & MHHS SERIES

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CONVERSION TABLE

G E N E R A L

C.R.I. Vertical multistage centrifugal pumps are non-self-priming with inline suction and discharge ports on the same level. The inline construction provides a smooth flow of liquid through the entire system. The vertical inline pump is ideal for applications where space is an issue as its horizontal alternative can take up to 2-3 times more space. These pumps are specially designed for high pressure applications where no suction lift is required. All wetted parts are made of corrosion resistant stainless steel which offers best hydraulic efficiency and durability. All pumps are fitted with maintenance free cartridge mechanical seal for safe handling, easy service and access.

C.R.I. pumps have wider choice to suit any kind of high pressure requirements in its category. These pumps are being supplied with DIN flanges (Round and PJE) as standard option and other type also can be supplied against specific requirement.

C.R.I. Vertical multistage pumps are offered with C.R.I. energy efficient motors to give better efficiency and life. All single phase motors are fitted with thermal overload protector to safe guard the winding while overloading and extreme operating conditions. These pumps are supplied with high efficient IE2 motors in 3 Phase; IE3 motors also can be supplied on request.

C.R.I. can also offer complete pressure boosting system with single or multiple pumps, VFD controller, manifold, pressure gauge, pressure switch, pressure tank etc with single and multi-pump options.

Applications : | Pressure boosting systems | Fire fighting systems | Industrial washing systems | Sprinkler irrigation systems | High pressure pumping application in water treatment plant and boiler plant | Utility water supply in industries Course.

Features : | Mechanical seal can be replaced in the installed position without removing pump from the system | Different type of flange options against specific requirement | Optional customized pressure boosting systems | Inbuilt thermal overload protector for single phase motors

IMPORTANT NOTES

| The conditions below apply to the curves shown on this entire catalogue. | Curve tolerance are according to ISO 9906, Grade 2B. | The performance are taken at rated voltage & speed that are only indicative. | Actual discharge depends on availability of water in well / tank, height of water column from the suction pipe end. | The measurements were made with airless water at 20°C. When pumping liquids with a density higher than of water, motors with correspondingly higher outputs must be used. | The bold curves indicate the recommended performance range. | Pipe friction losses have not been included in the performance curves & performance tables.

MODEL IDENTIFICATION CODE

<p>Product category M = Multi Stage Centrifugal Pumps V = Vertical</p> <p>M.O.C Pump Outershell / Impeller / Pump Base / Suc. & Del. Ports C = SS 304 / SS 304 / Cast Iron / Cast Iron S = SS 304 / SS 304 / Cast Iron / SS 304 N = SS 316 / SS 316 / Cast Iron / SS 316</p> <p>Flow Rate in m³/h 05 = 5 m³/h, 66 = 66 m³/h</p>	<p>M X X - XX / XX (X) (X) X (X) (X)</p> <p>No. of Impellers</p>	<p>High Eff. Motor (applicable only when supplied with IE2 & IE3 motors) 2 for IE2 & 3 for IE3.</p> <p>Voltage ('N' This digit is applicable except 230V 1 Ph & 380-415V 3 Ph)</p> <p>Phase / Connection / Control box / Frequency M = 1P / PSC / 50Hz S = 1P / CSCR / 50Hz T = 3P / D.O.L / 50Hz D = 3P / S.D / 50Hz</p> <p>Types of Port connection (This digit is applicable only for PJE coupling) P = PJE Connection (Only upto 5m/h)</p> <p>No of Trimmed Impellers (This digit is applicable only for pumps with trimmed impellers) A = 1 Trimmed Impeller B = 2 Trimmed Impellers R = 1 F Reduced Impeller P = 2 F Reduced Impellers</p>
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DESCRIPTION

"MVS-44/07BT2" denotes 44m³/h, round flange, 7 stage, with 2 trimmed impellers Vertical Multistage pump with 50Hz, 3Ph, 415V IE2 motor.
 "MVS-44/07B" denotes only pump end without motor.
 Note : Pump is supplied with round flange by default.
 Last 3 digits are applicable for pumps supplied with motor (Pumpset)

TECHNICAL DATA

Power Range	0.37 to 110 kW
Speed	2900 rpm
Degree of protection	IP 55 (Optional IP44 / IP54)
Insulation class	'F' (Optional 'B')
Versions	Single Phase 230V, 50Hz, A.C. Supply (0.37 - 2.2kW) (Permanent Split Capacitor-PSC & CSCR) Incorporated with thermal over load protector. Three Phase 380-415V, 50Hz, A.C. Supply (0.37 - 110kW)
Sealing	Mechanical seal - Cartridge type
Direction of rotation	Anti-clockwise viewed from driving end
Type of Duty	S1 (continuous)
Flange type	Round (Optional - PJE)
Flange Standard	DIN (Optional - ANSI)
Pipe Connection	DN 25, DN 32, DN 40, DN 50, DN 65, DN 80, DN 100, DN 125 & DN 150

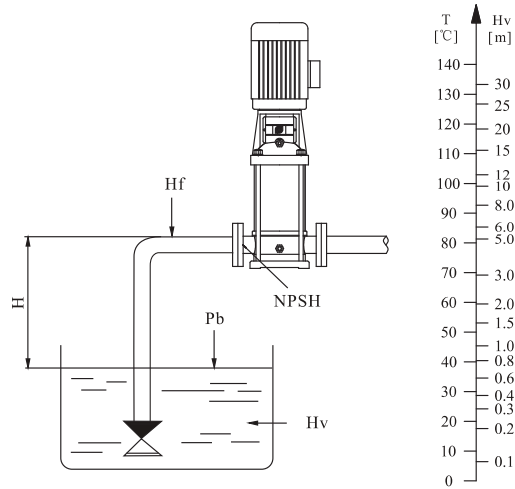
OPERATION LIMITS

Maximum Liquid Temperature	Standard : -10°C to +90°C Optional : -10°C to +120°C
Maximum Ambient Temperature	40°C
Maximum Operating Pressure Range	32 Bar

PERFORMANCE RANGE

Maximum Nominal Flow	200 m ³ /h
Maximum Head	320 m

INLET PRESSURE



MAXIMUM INLET PRESSURE

The actual inlet pressure plus the Shut off Pressure(Head) should always be lower than the “maximum operating pressure”.

MINIMUM INLET PRESSURE

In case that the pressure in pump is lower that steam pressure used to convey liquid, the cavitations will occur. To avoid the cavitations, and lessen the vibration and noise, you are suggested to adopt NPSH to make sure that the pump are under optimal operation condition.

The following formula can be used for calculation of minimum inlet pressure :

$$H = P_b \times 10.2 - NPSH - H_f - H_v - H_s$$

H : Maximum suction head (m)

P_b : Atmosphere pressure (bar)

In a closed system, P_b means system pressure (bar)

$NPSH$: Net positive suction head (m)

It can be read from the point of Max.flow rate shown on NPSH curve.

H_f : Pipeline loss at the inlet (m)

It is in accordance with pipeline possible Max.flow.

H_v : Stream pressure (m)

It depends on liquid temperature and system pressure value.

H_s : Safety margin (m)

Minimum 0.5m delivery head

If the calculated result H is positive, the pump may run under the Max. suction head H . In case the calculated result H is negative, a delivery head of Min.inlet pressure is necessary.

Note: Normally, the above calculation will not be done. H is calculated in the following conditions:

1. The liquid temperature is comparatively higher.
2. Liquid flow exceeds rated value.
3. Suction head is comparatively large or inlet pipeline long.
4. System pressure is too low.
5. Bad inlet condition.

MATERIALS OF CONSTRUCTION

Part Name	Part No.	Type - C	Type - S	Type - N
Pump Outer Shell	29.06	SS 304	SS 304	SS 316
Pump Head	30.00	C.I.	Upto 16m ³ /h - C.I	Upto 16m ³ /h - C.I.
			Above 32m ³ /h - SS 304	Above 32m ³ /h - SS 316
Pump Head Cover	30.07	NA	SS 304*	SS 316*
Pump Head Stool (Only for 32m ³ /h & above)	30.01	C.I. / D.I.#	C.I. / D.I.#	C.I. / D.I.#
Pump Base	29.01	C.I. / D.I.#	SS 304	SS 316
Base Plate	24.03	NA	C.I. / D.I.#	C.I. / D.I.#
Impeller	19.00	SS 304	SS 304	SS 316
** Mechanical Seal	16.00	SiC / SiC / FKM (Standard)	SiC / SiC / FKM (Standard)	SiC / SiC / FKM (Standard)
*** Bush	12.03	SiC / SiC	SiC / SiC	SiC / SiC
Diffuser (Chamber)	18.07	SS 304	SS 304	SS 316
Pump Shaft	22.00	SS 304 / 431	SS 304 / 431	SS 316/329
Wearing Ring	17.01	Teflon	Teflon	Teflon
Flange	29.04	C.I.	SS 304	SS 316
Neck Ring	19.01	SS 304	SS 304	SS 316
"O" Ring	32.09	EPDM / FKM	EPDM / FKM	EPDM / FKM
Coupling	22.01	M.S / C.I. / D.I.#	M.S / C.I. / D.I.#	M.S / C.I. / D.I.#
Split Cone	19.02	SS 304	SS 304	SS 316
Split Cone Nut	19.03	SS 304	SS 304	SS 316

* Provided only up to 16m³/h

** Optional Mechanical Seal MOCs
 TC / TC / FKM (Only up to +90°C)
 SiC / SiC / EPDM
 TC / CARBON / EPDM
 TC / TC / EPDM

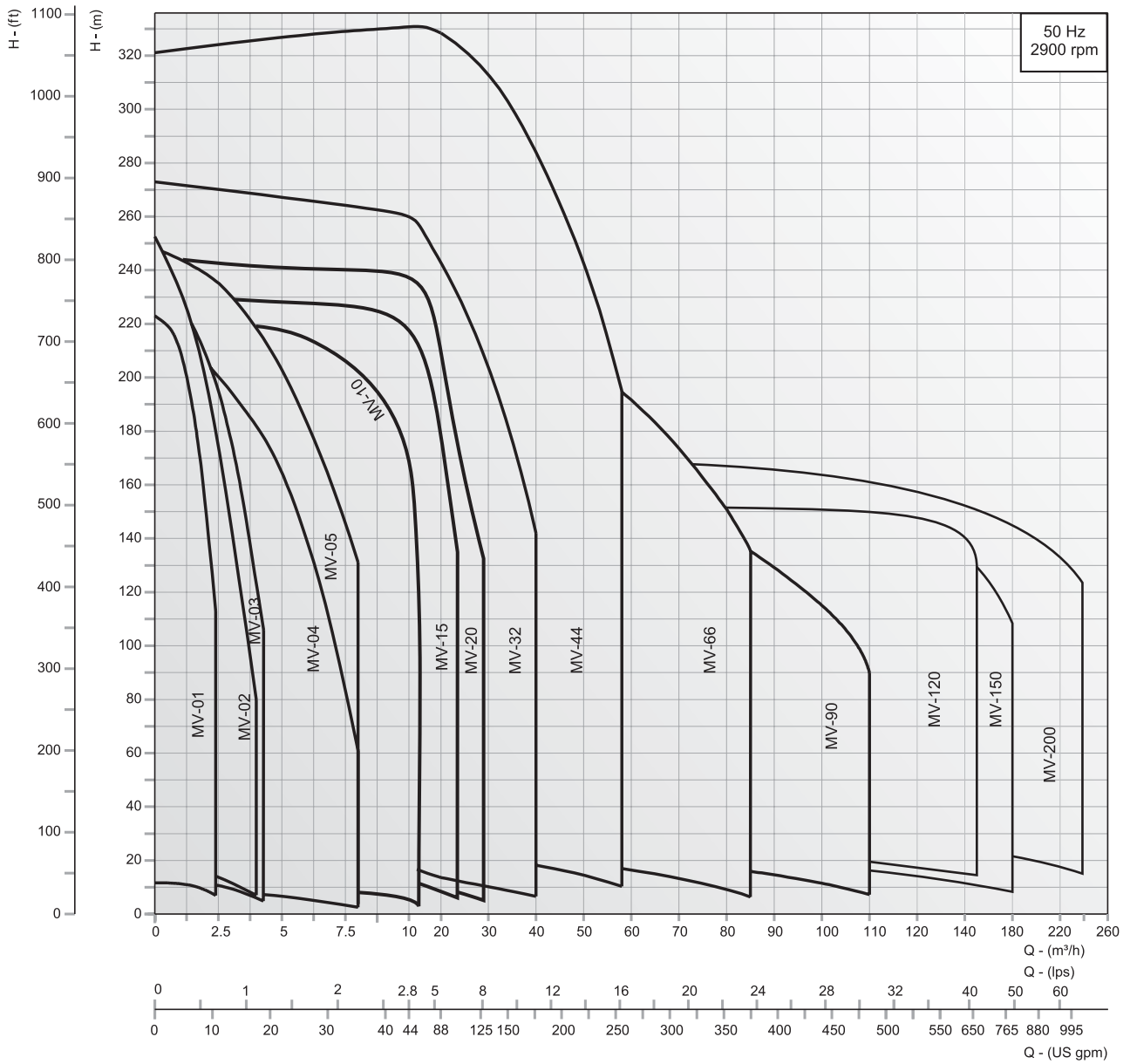
*** Optional Bush MOC
 TC / TC

Applicable for 120m³/h & above.

SiC - Silicon Carbide, TC - Tungsten Carbide, FKM - Fluoroelastomer (VITON), EPDM - Ethylene Propylene Diene Monomer



GROUP PERFORMANCE CURVE

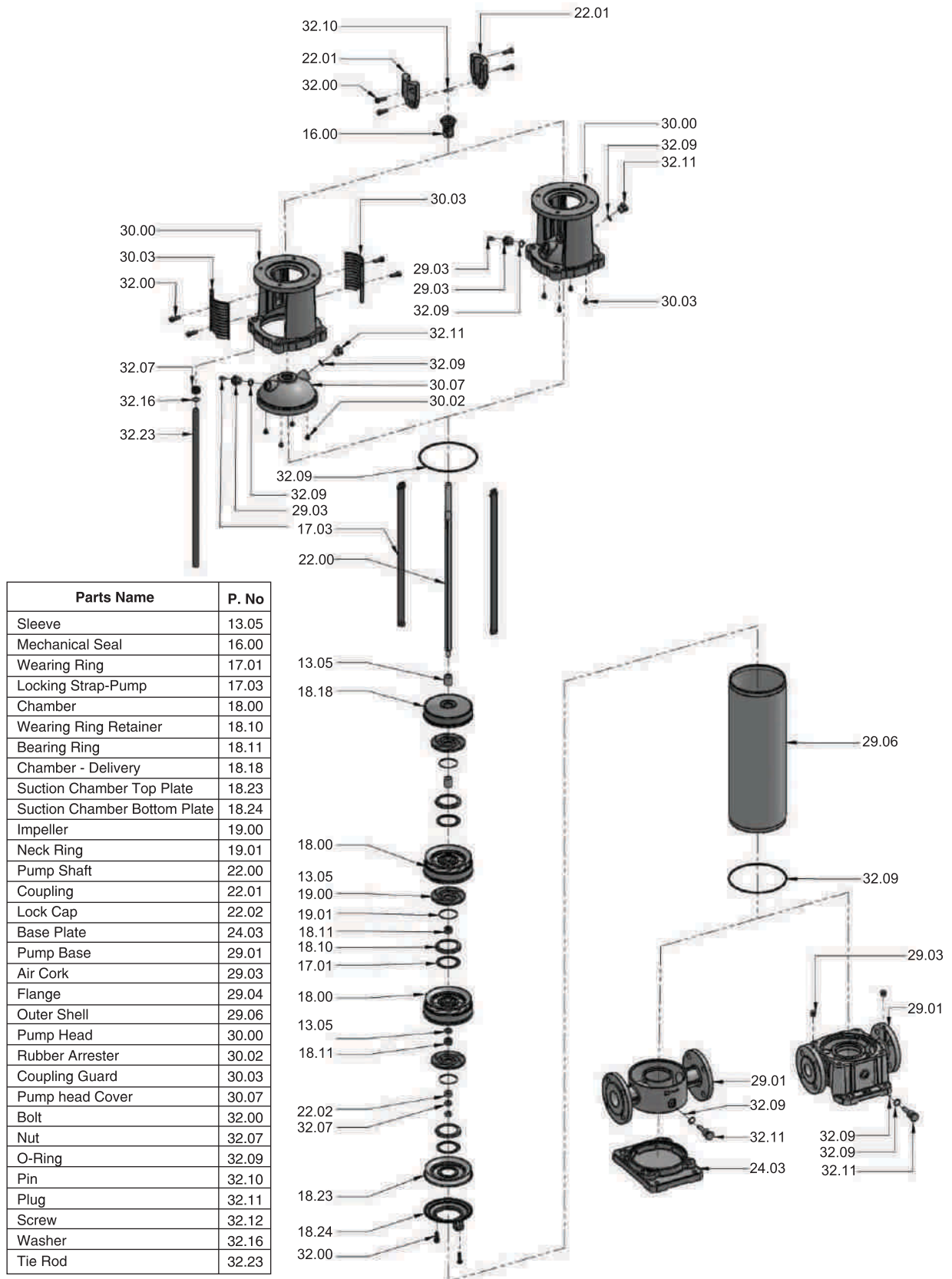


CURVE CONDITIONS

| Curve tolerance are according to ISO 9906, | The performance are taken at rated voltage & speed that are only indicative | Actual discharge depends on availability of water in well / tank, height of water column from the suction pipe end | The measurements were made with airless water at 20°C when pumping liquids with a density higher than of water, motors with correspondingly higher outputs must be used | The bold curves indicate the recommended performance range | Pipe friction losses have not been included in the performance curves & performance tables | The performance curves are applicable for all type of materials of construction.

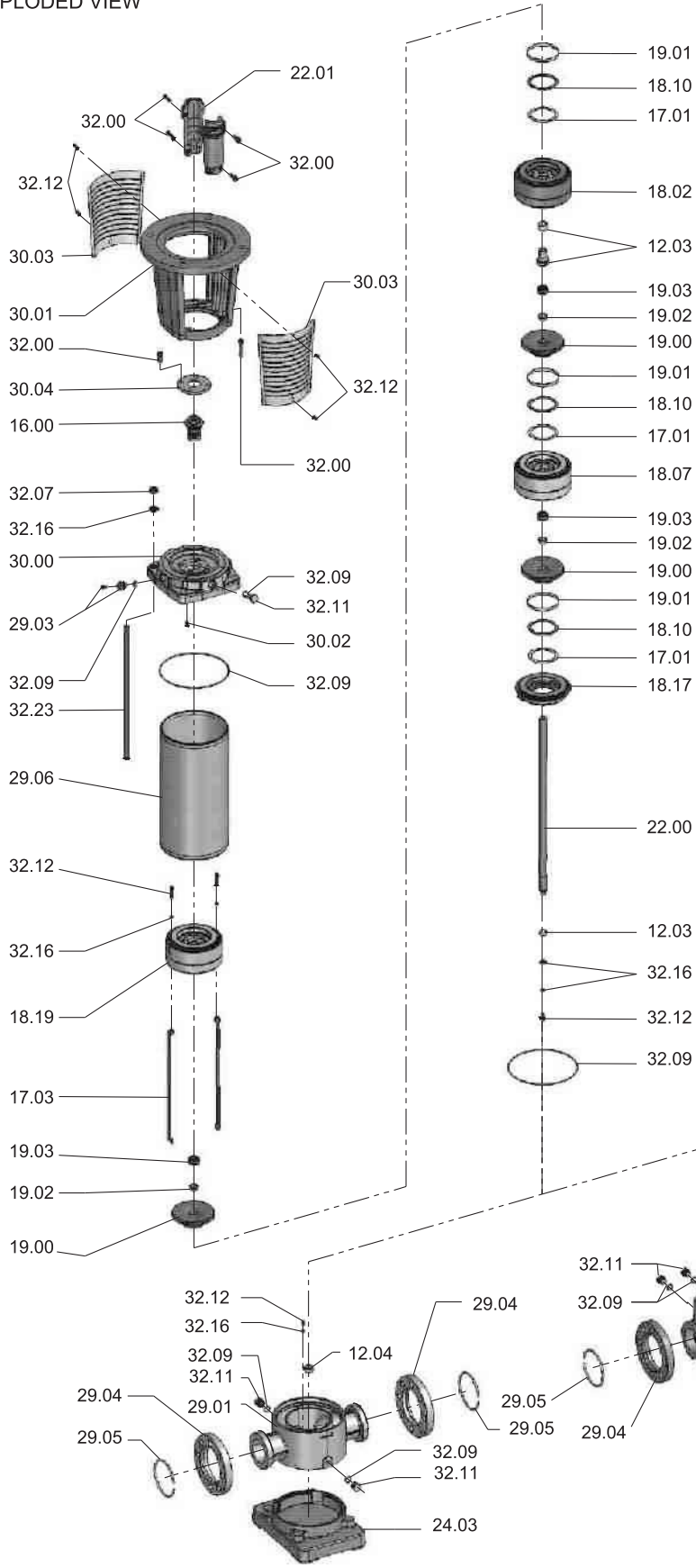
EXPLODED VIEW

MV 10 - 20 m³/h

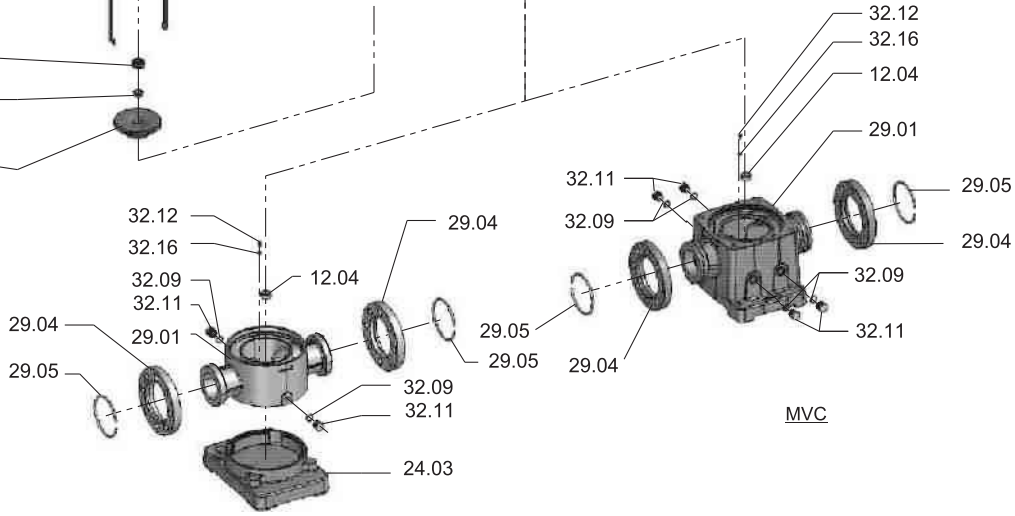


MV 32 - 90 m³/h

EXPLODED VIEW



Part Name	Part No.
Bush	12.03
Bush Guide	12.04
Mechanical Seal	16.00
Wearing Ring	17.01
Locking Strap - Pump	17.03
Chamber - Stage	18.07
Chamber - Bush	18.02
Wearing Ring Retainer	18.10
Chamber - Suction	18.17
Chamber Top	18.19
Impeller	19.00
Neck Ring	19.01
Split Cone	19.02
Split Cone Nut	19.03
Pump Shaft	22.00
Coupling	22.01
Bottom Plate	24.03
Pump Base	29.01
Air Cork	29.03
Flange	29.04
Retaining Ring	29.05
Outer Shell	29.06
Pump Head	30.00
Pump Head Stool	30.01
Rubber Arrester	30.02
Coupling Guard	30.03
Seal Lock Plate	30.04
Bolt	32.00
Nut	32.07
"O" Ring	32.09
Plug	32.11
Screw	32.12
Washer	32.16
Tie Rod	32.23

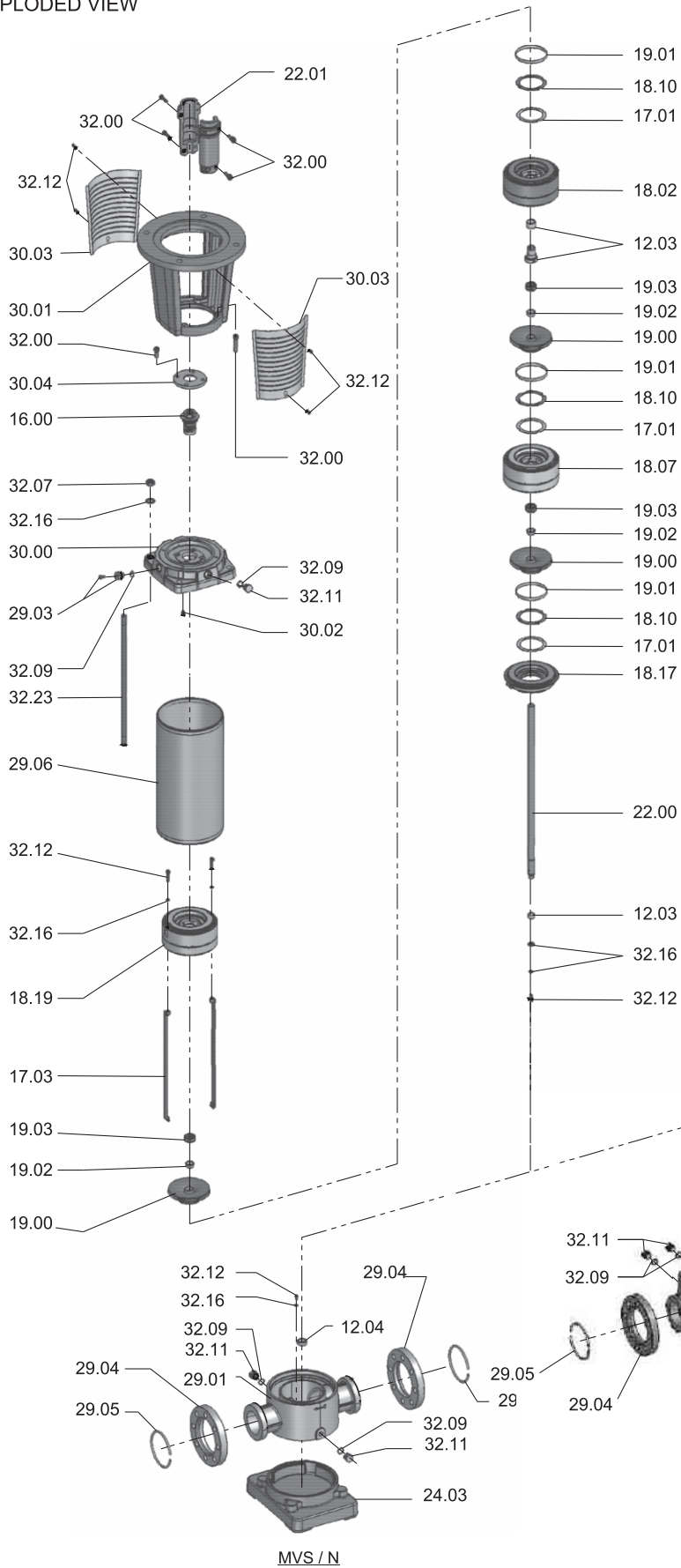


MVS / N

MVC

MV 120 - 200m³/h

EXPLODED VIEW



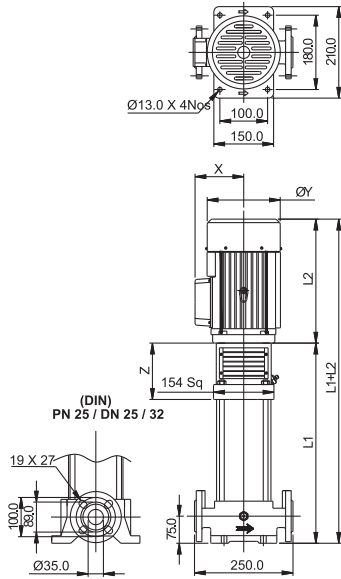
Part Name	Part No.
Bush	12.03
Bush Guide	12.04
Mechanical Seal	16.00
Wearing Ring	17.01
Locking Strap - Pump	17.03
Chamber - Stage	18.07
Chamber - Bush	18.02
Wearing Ring Retainer	18.10
Chamber - Suction	18.17
Chamber Top	18.19
Impeller	19.00
Neck Ring	19.01
Split Cone	19.02
Split Cone Nut	19.03
Pump Shaft	22.00
Coupling	22.01
Bottom Plate	24.03
Pump Base	29.01
Air Cork	29.03
Flange	29.04
Retaining Ring	29.05
Outer Shell	29.06
Pump Head	30.00
Pump Head Stool	30.01
Rubber Arrester	30.02
Coupling Guard	30.03
Seal Lock Plate	30.04
Bolt	32.00
Nut	32.07
Plug	32.11
Screw	32.12
Washer	32.16
Tie Rod	32.23

MVC

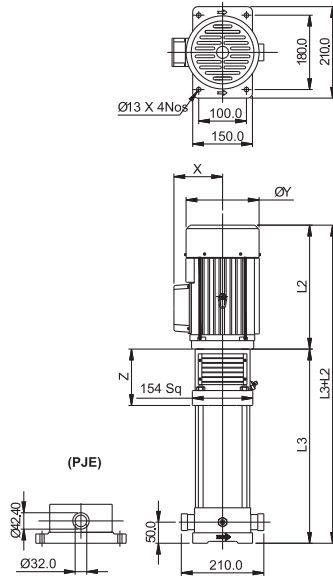
MVS / N

MV-1

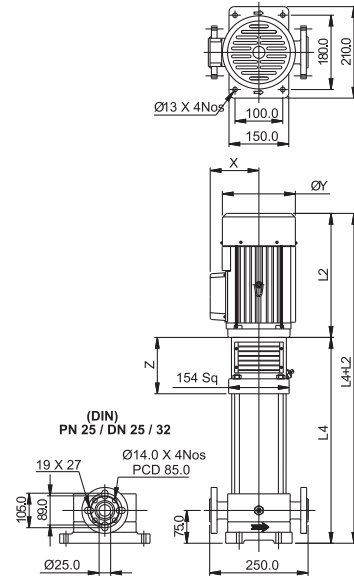
MVC (ROUND FLANGE)



MVS & N (PJE)

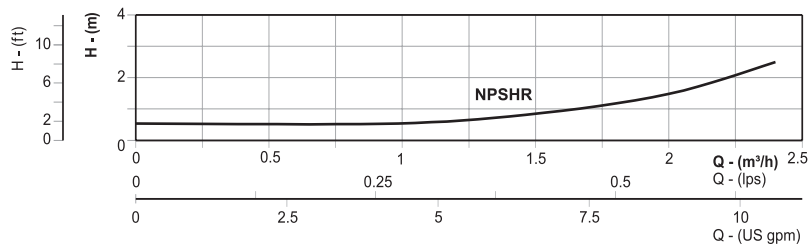


MVS & N (ROUND FLANGE)



PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)									APPROX NETT WEIGHT WITHOUT PACKING IN kg				
	kW	HP	L1	L2		L3	L4	X		ØY	Z	PUMP			MOTOR	
				1Ph	3Ph			1Ph	3Ph			MVC (Round)	MVS & N (PJE)	MVS & N (Round)	1Ph	3Ph
MVS-01/02	0.37	0.5	269	222	217	249	273	122	118	138	145	18.6	13.4	15.0	9	8
MVS-01/03	0.37	0.5	287	222	217	267	291	122	118	138	145	19.2	14.0	15.6	9	8
MVS-01/04	0.37	0.5	305	222	217	285	309	122	118	138	145	19.8	14.6	16.2	9	8
MVS-01/05	0.37	0.5	323	222	217	303	327	122	118	138	145	20.4	15.2	16.8	9	8
MVS-01/06	0.37	0.5	341	222	217	321	345	122	118	138	145	21.0	15.8	17.4	9	8
MVS-01/07	0.37	0.5	359	222	217	339	363	122	118	138	145	21.6	16.4	18.0	9	8
MVS-01/08	0.55	0.75	377	242	232	357	381	122	118	138	145	22.2	17.0	18.6	10	9
MVS-01/09	0.55	0.75	395	242	232	375	399	122	118	138	145	22.8	17.6	19.2	10	9
MVS-01/10	0.55	0.75	413	242	232	393	417	122	118	138	145	23.4	18.2	19.8	10	9
MVS-01/11	0.55	0.75	431	242	232	411	435	122	118	138	145	24.0	18.8	20.4	10	9
MVS-01/12	0.75	1	449	267	252	429	453	122	118	138	145	24.6	19.4	21.0	12	14
MVS-01/13	0.75	1	467	267	252	447	471	122	118	138	145	25.2	20.0	21.6	12	14
MVS-01/15	0.75	1	503	267	252	483	507	122	118	138	145	26.4	21.2	22.8	12	14

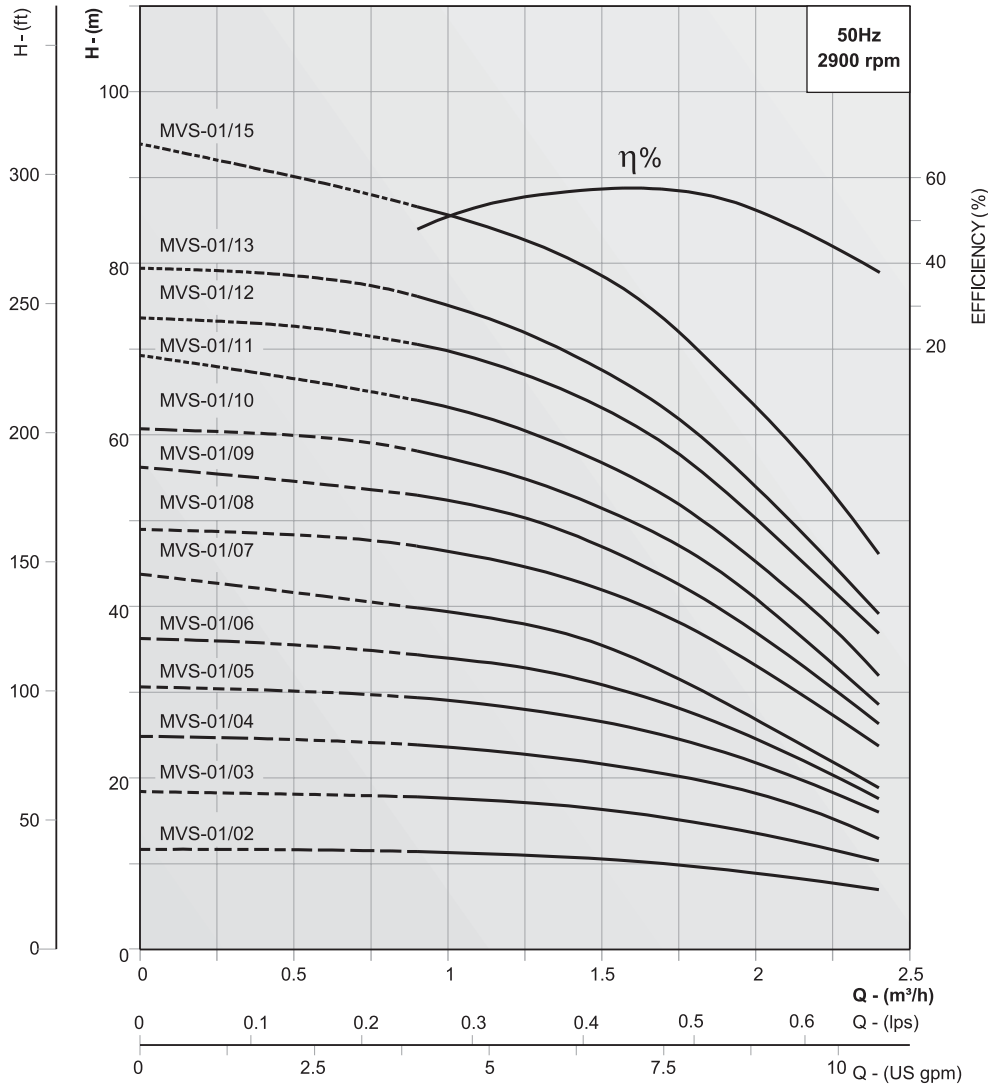
NPSHR CURVE



NOMINAL FLOW : 1m³/h

PERFORMANCE CURVES

MV-1



PERFORMANCE TABLE

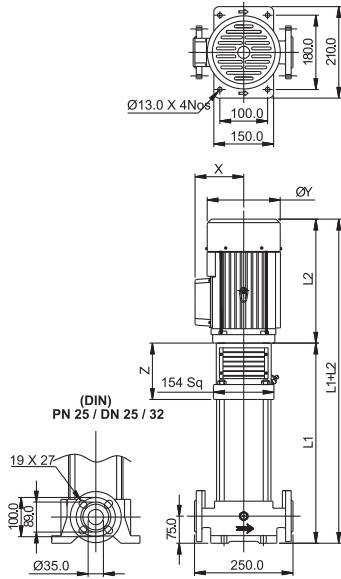
PIPE SIZE : DN 25 / 32

PUMP MODEL	MOTOR POWER		DISCHARGE						
	kW	HP	lps	0	0.14	0.27	0.41	0.55	0.66
			m ³ /h	0	0.5	1	1.5	2	2.4
MVS-01/02	0.37	0.5	TOTAL MANOMETRIC HEAD IN METRES	12.5	12	11	10	9	7
MVS-01/03	0.37	0.5		18.5	18	17.5	16.50	13.5	10
MVS-01/04	0.37	0.5		25	24.5	24	22	18	13
MVS-01/05	0.37	0.5		31	30	29.2	26.5	22	16
MVS-01/06	0.37	0.5		36.5	36	34	31	24	18
MVS-01/07	0.37	0.5		44	42	39	35	26	19
MVS-01/08	0.55	0.75		49	48	46	42	33	24
MVS-01/09	0.55	0.75		57	55	52	47	37	26
MVS-01/10	0.55	0.75		61	60	57	52	41	29
MVS-01/11	0.55	0.75		69	67	63	57	45	32
MVS-01/12	0.75	1.0		74	73	70	63	50	36
MVS-01/13	0.75	1.0		79.5	79	75	67	54	40
MVS-01/15	0.75	1.0		94	90	85	78	63	46

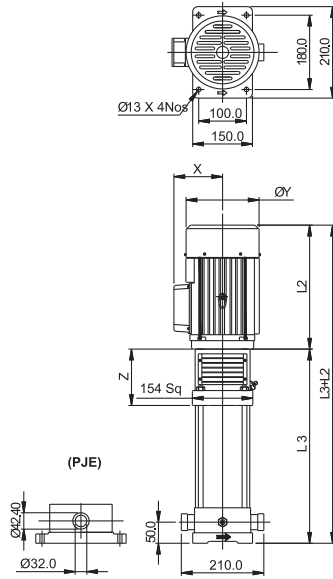
Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
 The given performance is same for Type - C, S & N
 In view of the continuous developments the Information / Descriptions / Specifications / Illustrations are subject to change without notice.

MV-1

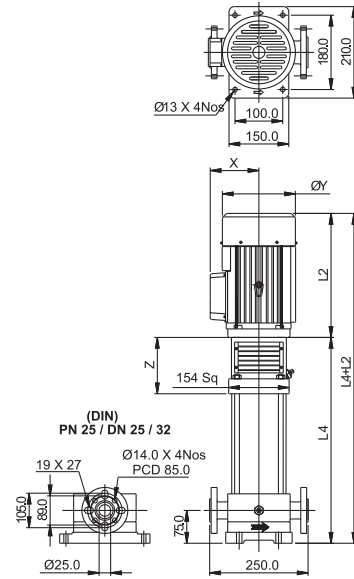
MVC (ROUND FLANGE)



MVS & N (PJE)

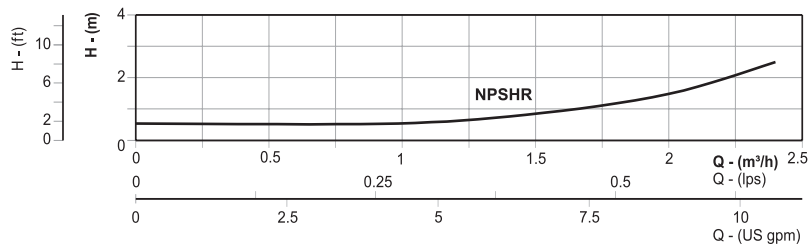


MVS & N (ROUND FLANGE)



PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)								APPROX NETT WEIGHT WITHOUT PACKING IN kg					
	kW	HP	L1	L2		L3	L4	X		ØY	Z	PUMP			MOTOR	
				1Ph	3Ph			1Ph	3Ph			MVC (Round)	MVS & N (PJE)	MVS & N (Round)	1Ph	3Ph
MVS-01/17	1.1	1.5	539	284	284	519	543	124	128	159	145	28	22	24	13.5	13
MVS-01/19	1.1	1.5	575	284	284	555	579	124	128	159	145	29	24	25	13.5	13
MVS-01/21	1.1	1.5	611	284	284	591	615	124	128	159	145	30	25	26	13.5	13
MVS-01/23	1.1	1.5	647	284	284	627	651	124	128	159	145	31	26	28	13.5	13
MVS-01/25	1.5	2	701	294	295	681	705	128	128	187	163	32	27	29	16.5	15
MVS-01/27	1.5	2	737	294	295	717	741	128	128	187	163	34	28	30	16.5	15
MVS-01/30	1.5	2	791	294	295	771	795	128	128	187	163	35	30	32	16.5	15
MVS-01/33	2.2	3	845	320	305	825	849	136	136	187	163	37	32	34	20	17.5
MVS-01/36	2.2	3	899	320	305	879	903	136	136	187	163	39	34	35	20	17.5

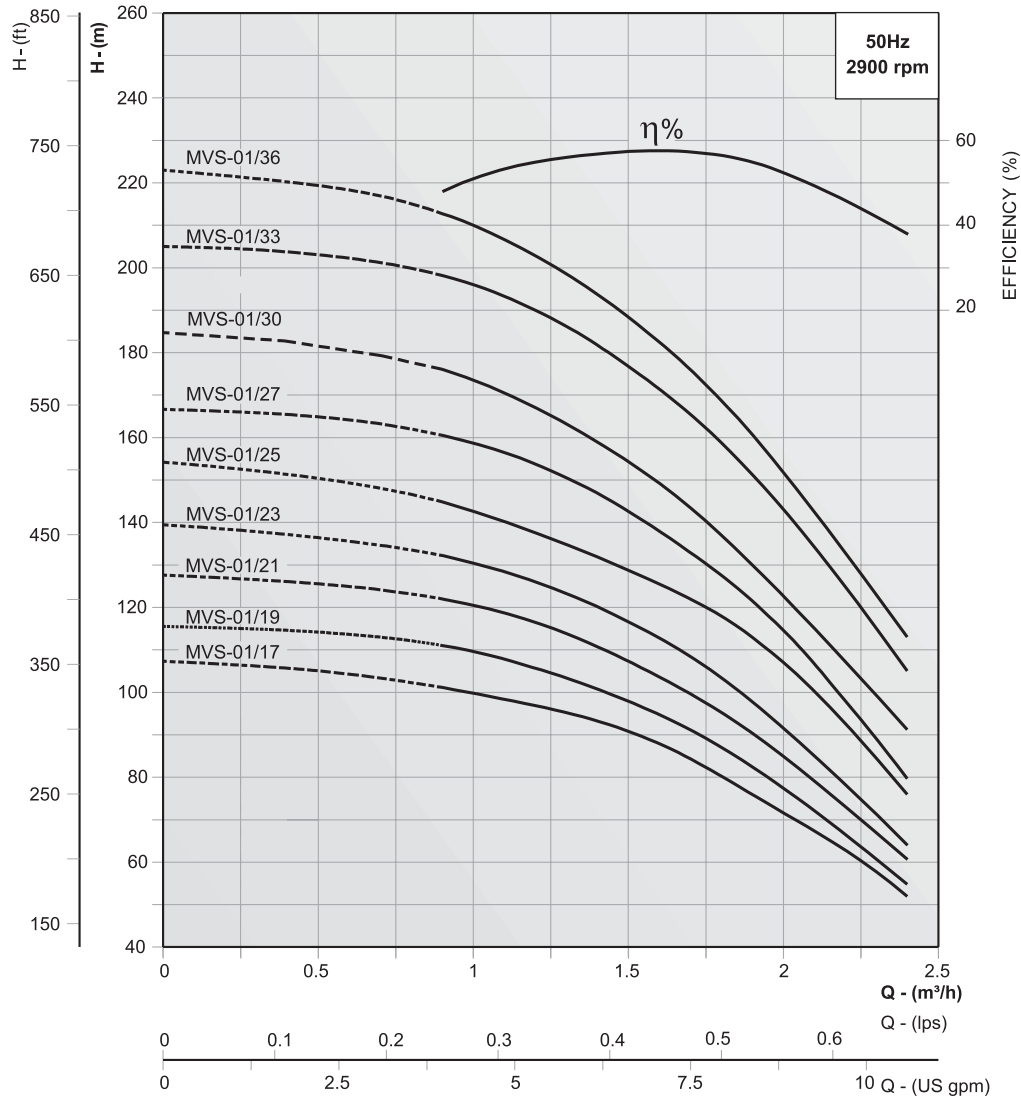
NPSHR CURVE



NOMINAL FLOW : 1m³/h

PERFORMANCE CURVES

MV-1



PERFORMANCE TABLE

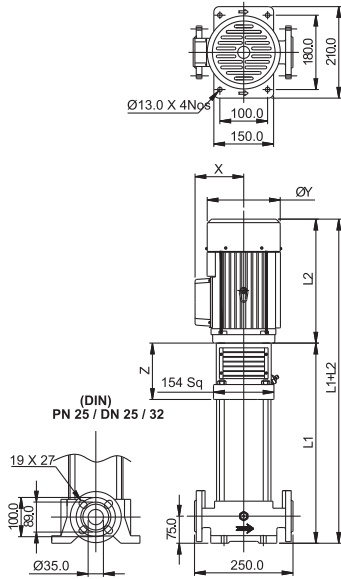
PIPE SIZE : DN 25 / 32

PUMP MODEL	MOTOR POWER		DISCHARGE	DISCHARGE					
	kW	HP		lps	0	0.14	0.27	0.41	0.55
			m ³ /h	0	0.5	1	1.5	2	2.4
MVS-01/17	1.1	1.5	TOTAL MANOMETRIC HEAD IN METRES	108	105	100	90	72	52
MVS-01/19	1.1	1.5		116	114	110	98	78	56
MVS-01/21	1.1	1.5		127	125	120	108	85	60
MVS-01/23	1.1	1.5		140	136	130	116	91	64
MVS-01/25	1.5	2.0		154	150	142	128	107	76
MVS-01/27	1.5	2.0		167	165	158	142	114	80
MVS-01/30	1.5	2.0		185	182	174	154	122	90
MVS-01/33	2.2	3.0		205	203	196	176	142	104
MVS-01/36	2.2	3.0		223	219	210	188	150	114

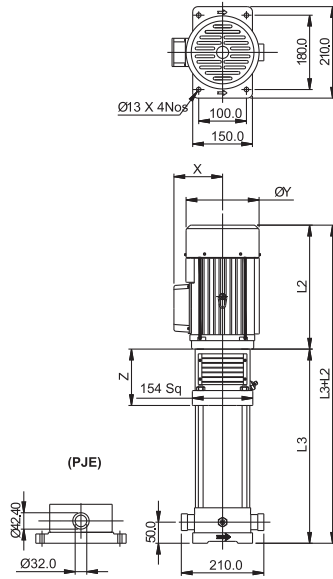
Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
 The given performance is same for Type - C, S & N
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MV-2

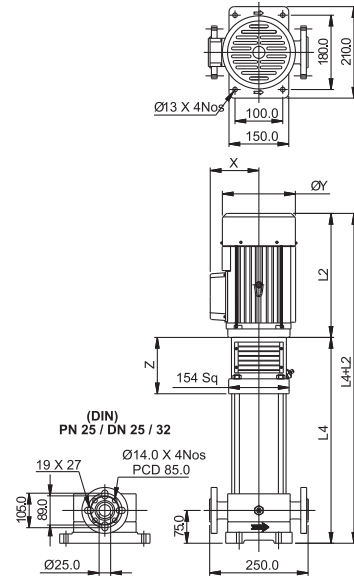
MVC (ROUND FLANGE)



MVS & N (PJE)

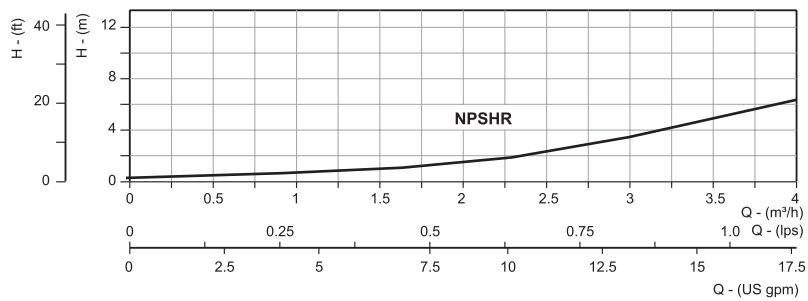


MVS & N (ROUND FLANGE)



PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)									APPROX NETT WEIGHT WITHOUT PACKING IN kg				
			L1	L2		L3	L4	X		ØY	Z	PUMP			MOTOR	
	1Ph	3Ph		1Ph	3Ph			MVC (Round)	MVS & N (PJE)			MVS & N (Round)	1Ph	3Ph		
MVS-02/02	0.37	0.5	269	222	217	249	273	122	118	138	145	18.6	13.4	15.0	9	8
MVS-02/03	0.37	0.5	287	222	217	267	291	122	118	138	145	19.3	14.1	15.7	9	8
MVS-02/04	0.55	0.75	305	242	232	285	309	122	118	138	145	20.0	14.8	16.4	10	9
MVS-02/05	0.55	0.75	323	242	232	303	327	122	118	138	145	20.7	15.5	17.1	10	9
MVS-02/06	0.75	1	341	267	252	321	345	122	118	138	145	21.4	16.2	18.7	12	14
MVS-02/07	0.75	1	359	267	252	339	363	122	118	138	145	22.1	16.9	18.5	12	14
MVS-02/09	1.1	1.5	395	284	284	375	399	124	128	159	145	23.6	18.4	20.0	13.5	13
MVS-02/11	1.1	1.5	431	284	284	411	435	124	128	159	145	25.0	19.8	21.4	13.5	13
MVS-02/13	1.5	2	485	294	295	465	489	128	128	187	163	26.6	22.0	23.6	16.5	15
MVS-02/15	1.5	2	521	294	295	501	525	128	128	187	163	28.0	23.4	25.0	16.5	15
MVS-02/18	2.2	3	575	320	305	555	579	136	136	187	163	30.1	25.5	26.6	20	17.5
MVS-02/22	2.2	3	647	320	305	627	651	136	136	187	163	33.0	28.4	30.0	20	17.5
MVS-02/26	3	4	719	-	320	699	723	-	136	187	163	35.9	31.3	32.9	-	24

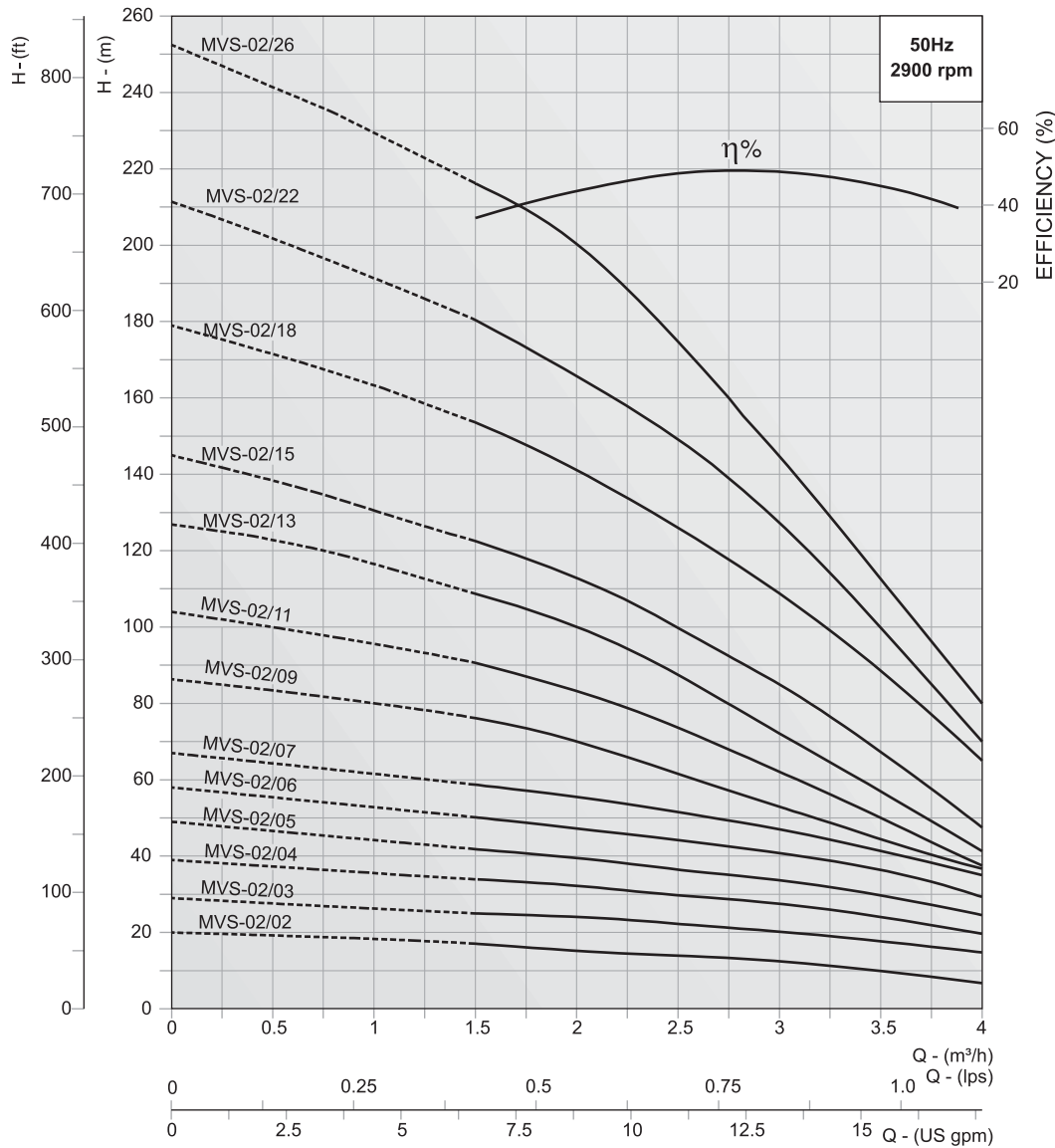
NPSHR CURVE



NOMINAL FLOW : 2m³/h

PERFORMANCE CURVES

MV-2



PERFORMANCE TABLE

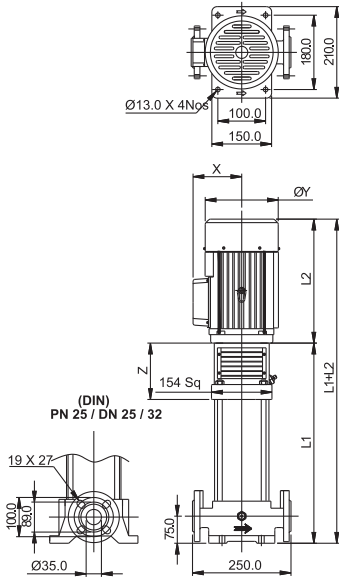
PIPE SIZE : DN 25 / 32

PUMP MODEL	MOTOR POWER		DISCHARGE							
	kW	HP	lps	0	0.41	0.55	0.69	0.83	0.97	1.11
			m ³ /h	0	1.5	2	2.5	3	3.5	4
MVS-02/02	0.37	0.50	TOTAL MANOMETRIC HEAD IN METRES	20	17	15	13.5	12.5	10	7
MVS-02/03	0.37	0.50		29	25	24	22.5	20	17.5	15
MVS-02/04	0.55	0.75		39	34	32.5	30	27.5	24.5	20
MVS-02/05	0.55	0.75		49	42	40	36.5	33.5	30	25
MVS-02/06	0.75	1.0		58	50	47.5	44.5	41	36.5	30
MVS-02/07	0.75	1.0		67	58.5	55	52	47	41.5	35
MVS-02/09	1.1	1.5		86	76.5	70	62	52.5	45	37
MVS-02/11	1.1	1.5		104	90	83	73.5	62.5	50	37.5
MVS-02/13	1.5	2.0		128	109	100	87.5	72.5	57.5	42
MVS-02/15	1.5	2.0		145	122.5	112.5	100	85	67.5	47.5
MVS-02/18	2.2	3.0		179	153.5	141	126	108	88	63
MVS-02/22	2.2	3.0		211	180	165	150	127.5	100	70
MVS-02/26	3.0	4.0	252	215.5	200	175	145	102.5	80	

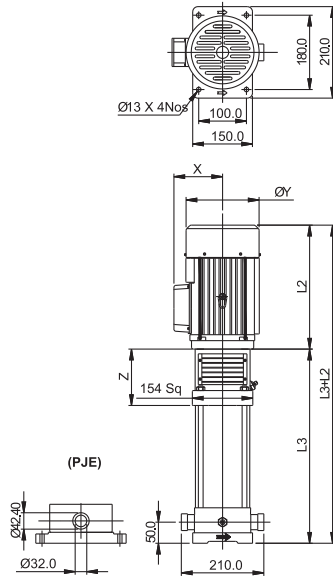
Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
 The given performance is same for Type - C, S & N
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MV-3

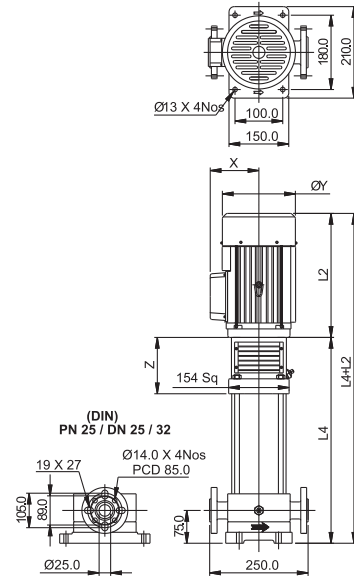
MVC (ROUND FLANGE)



MVS & N (PJE)

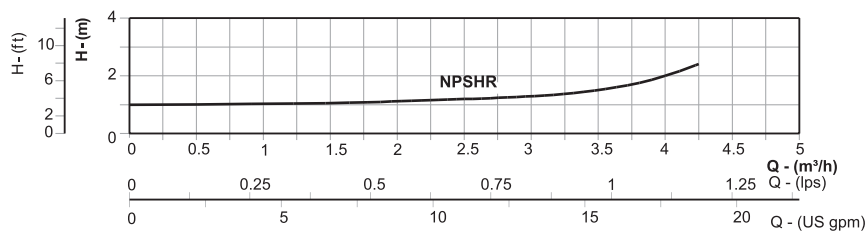


MVS & N (ROUND FLANGE)



PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)									APPROX NETT WEIGHT WITHOUT PACKING IN kg				
	kW	HP	L1	L2		L3	L4	X		ØY	Z	PUMP			MOTOR	
				1Ph	3Ph			1Ph	3Ph			MVC (Round)	MVS & N (PJE)	MVS & N (Round)	1Ph	3Ph
MVS-03/02	0.37	0.5	269	222	217	249	273	122	118	138	145	18.6	13.4	15.0	9	8
MVS-03/03	0.37	0.5	287	222	217	267	291	122	118	138	145	19.2	14.0	15.6	9	8
MVS-03/04	0.37	0.5	305	222	217	285	309	122	118	138	145	19.8	14.6	16.2	9	8
MVS-03/05	0.37	0.5	323	222	217	303	327	122	118	138	145	20.4	15.2	16.8	9	8
MVS-03/06	0.55	0.75	341	242	232	321	345	122	118	138	145	21.0	15.8	17.4	10	9
MVS-03/07	0.55	0.75	359	242	232	339	363	122	118	138	145	21.6	16.4	18.0	10	9
MVS-03/08	0.75	1	377	267	252	357	381	122	118	138	145	22.2	17.0	18.6	12	14
MVS-03/09	0.75	1	395	267	252	375	399	122	118	138	145	22.8	17.6	19.2	12	14
MVS-03/10	0.75	1	413	267	252	393	417	122	118	138	145	23.4	18.2	19.8	12	14
MVS-03/11	1.1	1.5	431	284	284	411	435	124	128	159	145	24.0	18.8	20.4	13.5	13
MVS-03/12	1.1	1.5	449	284	284	429	453	124	128	159	145	24.6	19.4	21.0	13.5	13
MVS-03/13	1.1	1.5	467	284	284	447	471	124	128	159	145	25.2	20.0	21.6	13.5	13
MVS-03/15	1.1	1.5	503	284	284	483	507	124	128	159	145	26.4	21.2	22.8	13.5	13

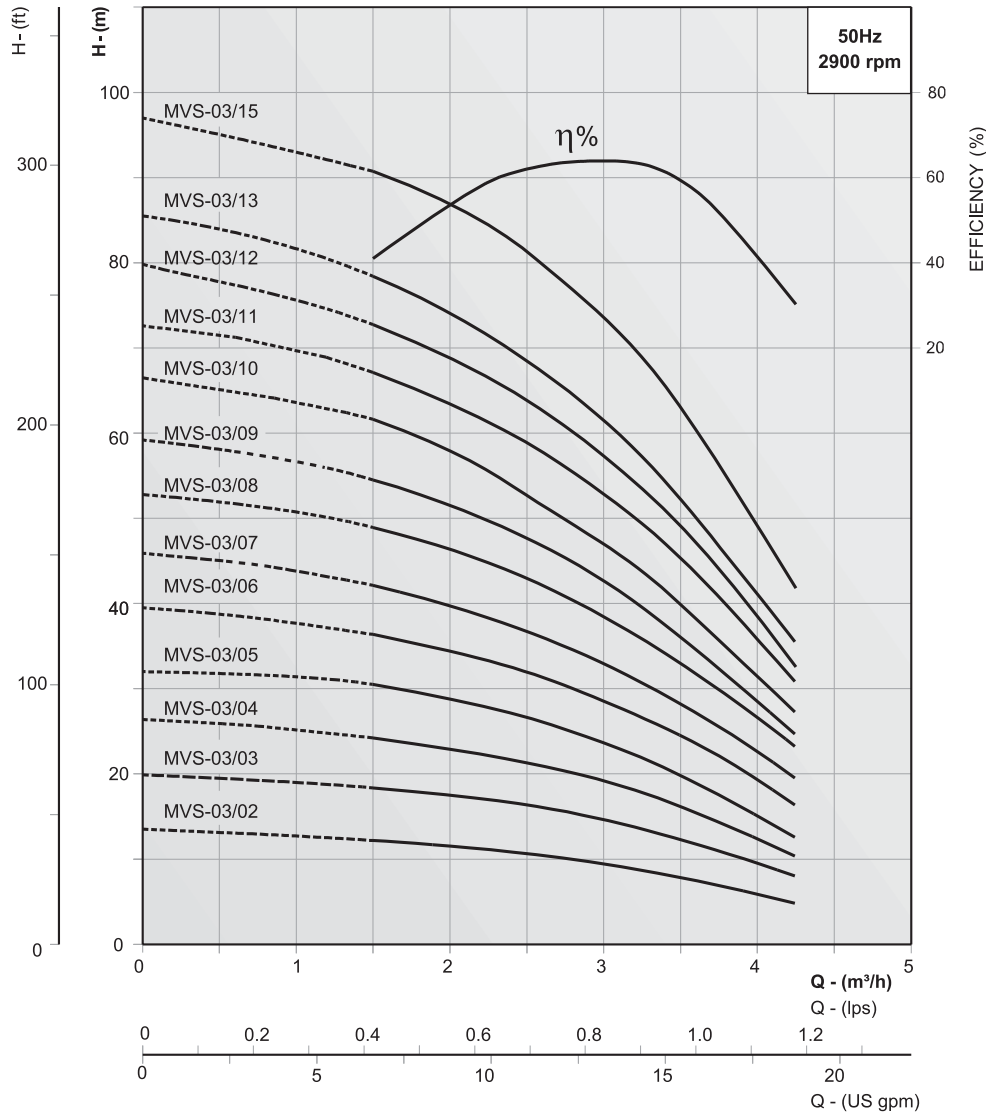
NPSHR CURVE



NOMINAL FLOW : 3m³/h

PERFORMANCE CURVES

MV-3



PERFORMANCE TABLE

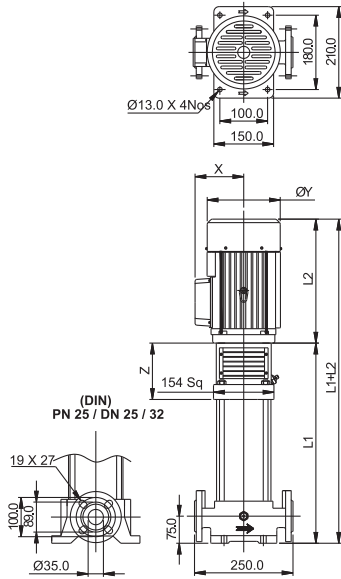
PIPE SIZE : DN 25/32

PUMP MODEL	MOTOR POWER		DISCHARGE						
	kW	HP	lps	0	0.27	0.55	0.83	1.11	1.19
			m ³ /h	0	1	2	3	4	4.25
MVS-03/02	0.37	0.5	TOTAL MANOMETRIC HEAD IN METRES	14	13	11.5	9.5	6	5
MVS-03/03	0.37	0.5		20	18	17.5	14.5	9.5	8
MVS-03/04	0.37	0.5		26	25	23	18	12	10.5
MVS-03/05	0.37	0.5		32	31.5	29	23.5	15	12.5
MVS-03/06	0.55	0.75		39	37.5	34.5	29	18.5	16
MVS-03/07	0.55	0.75		46	44	40	33	24.5	19.5
MVS-03/08	0.75	1.0		53	51	46.5	38.5	26	23
MVS-03/09	0.75	1.0		59	57	51.5	43	28.5	25
MVS-03/10	0.75	1.0		66	63.5	58	47	31	27
MVS-03/11	1.1	1.5		73	69.5	63.5	53	36	31
MVS-03/12	1.1	1.5		80	75.5	69	57	38	33
MVS-03/13	1.1	1.5		86	81.5	74	61.5	41	35.5
MVS-03/15	1.1	1.5		97	93	87	74	47	42

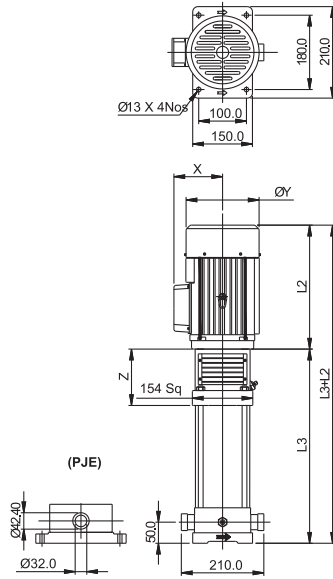
Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
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MV-3

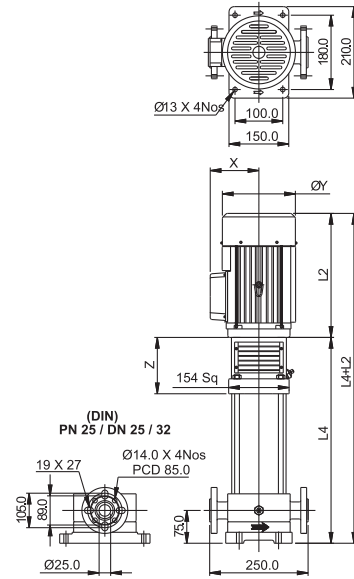
MVC (ROUND FLANGE)



MVS & N (PJE)

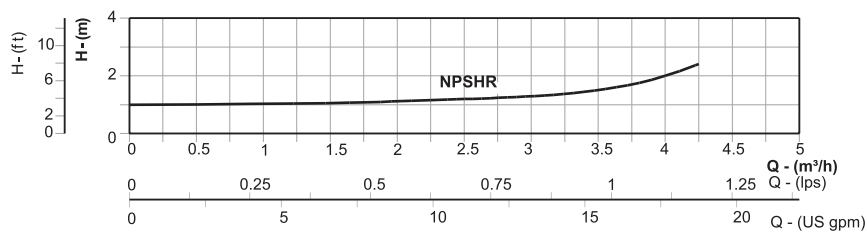


MVS & N (ROUND FLANGE)



PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)									APPROX NETT WEIGHT WITHOUT PACKING IN kg				
	kW	HP	L1	L2		L3	L4	X		ØY	Z	PUMP			MOTOR	
				1Ph	3Ph			1Ph	3Ph			MVC (Round)	MVS & N (PJE)	MVS & N (Round)	1Ph	3Ph
MVS-03/17	1.5	2	557	294	295	537	561	128	128	187	163	28	22	24	16.5	15
MVS-03/19	1.5	2	593	294	295	573	597	128	128	187	163	29	24	25	16.5	15
MVS-03/21	2.2	3	629	320	305	609	633	136	136	187	163	30	25	26	20	17.5
MVS-03/23	2.2	3	665	320	305	645	669	136	136	187	163	31	26	28	20	17.5
MVS-03/25	2.2	3	701	320	305	681	705	136	136	187	163	32	27	29	20	17.5
MVS-03/27	2.2	3	737	320	305	717	741	136	136	187	163	34	28	30	20	17.5
MVS-03/29	2.2	3	773	320	305	753	777	136	136	187	163	35	30	31	20	17.5
MVS-03/31	3	4	809	-	320	789	813	-	136	187	163	36	32	33	-	24.5
MVS-03/33	3	4	845	-	320	825	849	-	136	187	163	37	32	34	-	24.5
MVS-03/36	3	4	899	-	320	879	903	-	136	187	163	39	34	35	-	24.5

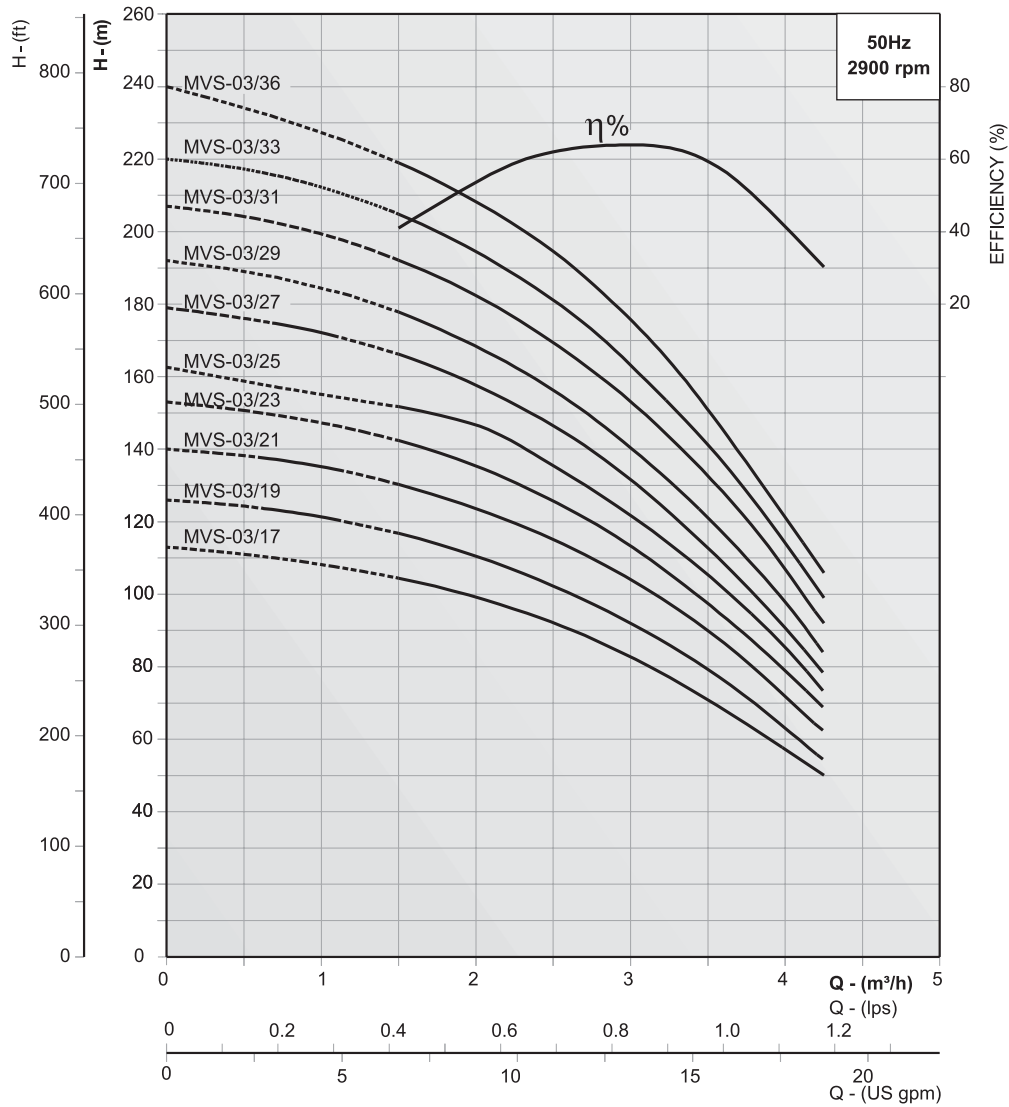
NPSHR CURVE



NOMINAL FLOW : 3m³/h

PERFORMANCE CURVES

MV-3



PERFORMANCE TABLE

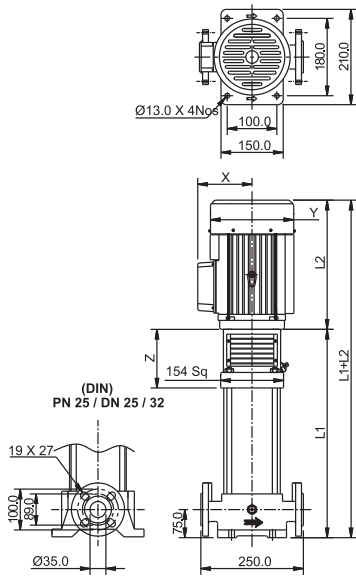
PIPE SIZE : DN 25/32

PUMP MODEL	MOTOR POWER		DISCHARGE						
	kW	HP	lps	0	0.27	0.55	0.83	1.11	1.19
			m ³ /h	0	1	2	3	4	4.25
MVS-03/17	1.5	2.0	TOTAL MANOMETRIC HEAD IN METRES	112	108.5	99	82.5	57	51.5
MVS-03/19	1.5	2.0		126	121	110.5	92	63	54.5
MVS-03/21	2.2	3.0		140	135	123.5	104	72	63
MVS-03/23	2.2	3.0		153	147	135	113	79	69
MVS-03/25	2.2	3.0		162	155	147	122	85.5	73
MVS-03/27	2.2	3.0		179	172	157.5	137.5	90.5	78.5
MVS-03/29	2.2	3.0		192	184.5	168.5	140.5	98	84
MVS-03/31	3.0	4.0		207	199	182.5	133	106.5	92.5
MVS-03/33	3.0	4.0		220	212.5	194.5	163	114	99.5
MVS-03/36	3.0	4.0	240	227	208.5	177.5	121	106.5	

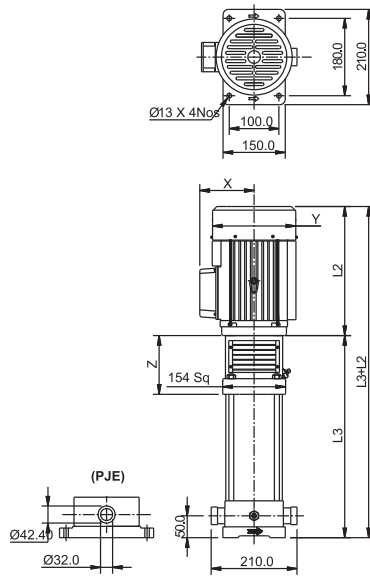
Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
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MV-4

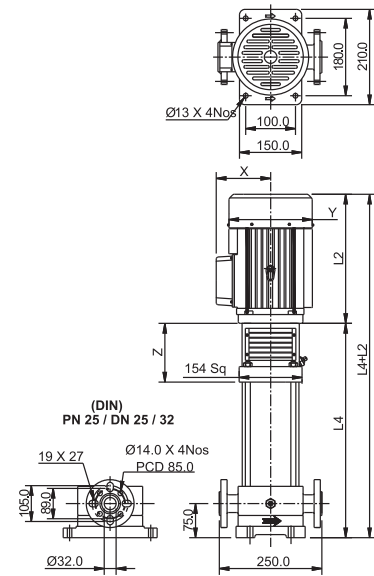
MVC (ROUND FLANGE)



MVS & N (PJE)

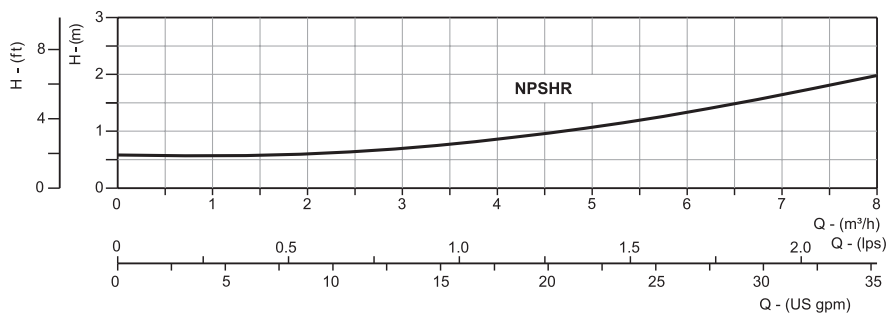


MVS & N (ROUND FLANGE)



PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)									APPROX NETT WEIGHT WITHOUT PACKING IN kg				
	kW	HP	L1	L2		L3	L4	X		ØY	Z	PUMP			MOTOR	
				1Ph	3Ph			1Ph	3Ph			MVC (Round)	MVS & N (PJE)	MVS & N (Round)	1Ph	3Ph
MVS-04/01	0.37	0.5	257	222	217	267	291	122	118	138	145	21.9	16.7	18.3	9	8
MVS-04/02	0.37	0.5	287	222	217	294	318	122	118	138	145	22.6	17.4	19.0	9	8
MVS-04/03	0.55	0.75	314	242	232	321	345	122	118	138	145	23.3	18.1	19.7	10	9
MVS-04/04	0.75	1	341	267	252	348	372	122	118	138	145	24.0	18.8	20.4	12	14
MVS-04/05	1.1	1.5	368	284	284	375	399	124	128	159	145	24.7	19.5	21.1	13.5	13
MVS-04/06	1.1	1.5	395	284	284	402	426	124	128	159	145	25.4	20.2	21.8	13.5	13
MVS-04/07	1.5	2	440	294	295	447	471	128	128	187	163	26.1	21.5	23.1	16.5	15
MVS-04/08	1.5	2	467	294	295	474	498	128	128	187	163	26.8	22.2	23.8	16.5	15
MVS-04/10	2.2	3	521	320	305	528	552	136	136	187	163	28.1	23.5	25.1	20	17.5
MVS-04/12	2.2	3	575	320	305	582	606	136	136	187	163	29.4	24.8	26.4	20	17.5
MVS-04/14	3	4	629	-	320	636	660	-	136	187	163	30.1	25.5	27.1	-	24.5
MVS-04/16	3	4	683	-	320	690	714	-	136	187	163	32.0	27.4	29.0	-	24.5
MVS-04/19	4	5.5	764	-	354	771	795	-	136	187	163	34.0	29.4	31.0	-	27.5
MVS-04/22	4	5.5	845	-	354	852	876	-	136	187	163	36.0	31.4	33.0	-	27.5

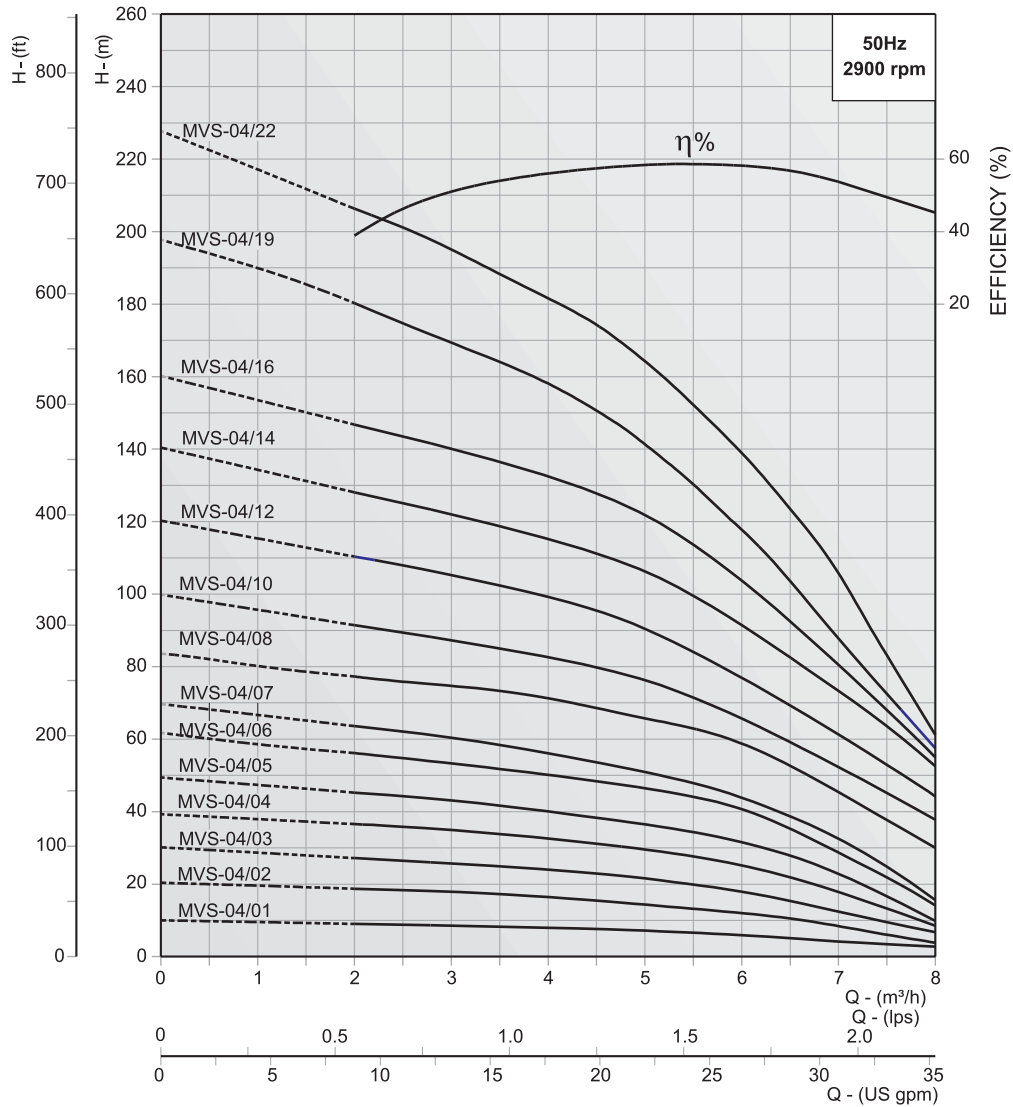
NPSHR CURVE



NOMINAL FLOW : 4m³/h

PERFORMANCE CURVES

MV-4



PERFORMANCE TABLE

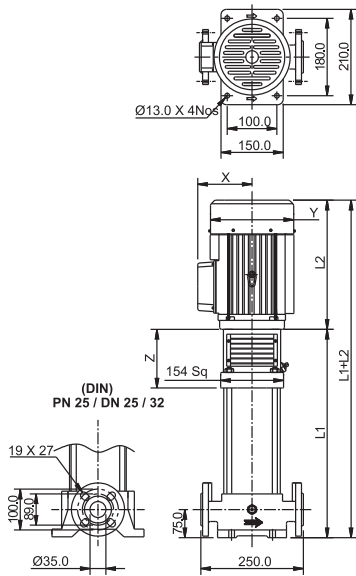
PIPE SIZE : DN 25 / 32

PUMP MODEL	MOTOR POWER		DISCHARGE							
	kW	HP	lps	0	0.83	1.11	1.38	1.66	1.94	2.22
			m ³ /h	0	3	4	5	6	7	8
MVS-04/01	0.37	0.50	TOTAL MANOMETRIC HEAD IN METRES	10	8	7.5	7	5.5	4.5	2.5
MVS-04/02	0.37	0.50		20	17.5	17	14.5	12	8	4
MVS-04/03	0.55	0.75		30	25.5	24.5	22	17.5	12.5	7
MVS-04/04	0.75	1.0		40	35	32.5	30	25	17.5	9
MVS-04/05	1.1	1.5		50	42.5	40	37	32	22.5	10
MVS-04/06	1.1	1.5		62	53	50	47	40.5	28.5	14
MVS-04/07	1.5	2.0		70	60	56	50.5	44	32.5	15
MVS-04/08	1.5	2.0		84	75	71.5	65.5	59	45	30
MVS-04/10	2.2	3.0		100	87.5	82.5	77	65	52.5	37.5
MVS-04/12	2.2	3.0		120	105	99.5	90	77	61	44.5
MVS-04/14	3.0	4.0		140	122	115	106	92	72.5	52.5
MVS-04/16	3.0	4.0		160	140	132.5	122	104	80	55
MVS-04/19	4.0	5.5		198	170	157.5	141	117.5	87.5	57.5
MVS-04/22	4.0	5.5		228	195	182	165	139	105	61

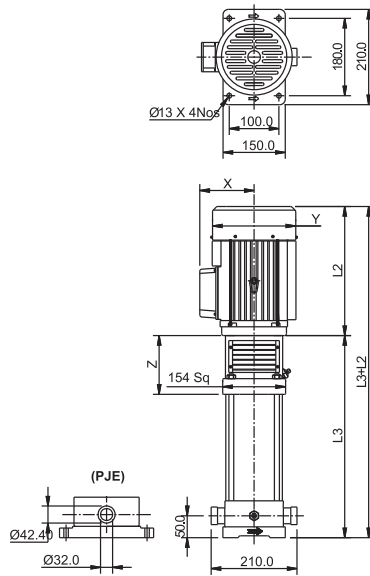
Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
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MV-5

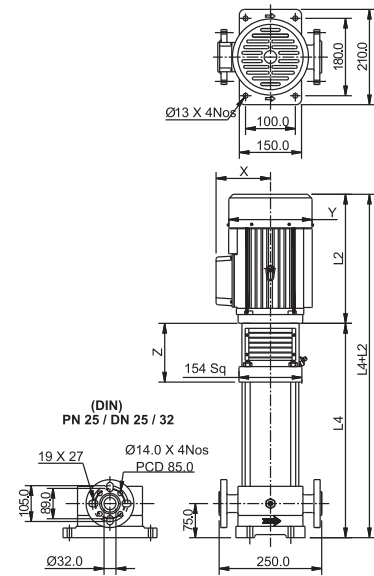
MVC (ROUND FLANGE)



MVS & N (PJE)

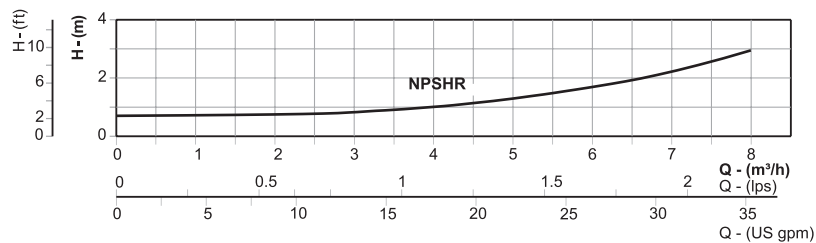


MVS & N (ROUND FLANGE)



PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)									APPROX NETT WEIGHT WITHOUT PACKING IN kg				
	kW	HP	L1	L2		L3	L4	X		ØY	Z	PUMP			MOTOR	
				1Ph	3Ph			1Ph	3Ph			MVC (Round)	MVS & N (PJE)	MVS & N (Round)	1Ph	3Ph
MVS-05/02	0.37	0.5	287	222	217	267	291	122	118	138	145	22.6	17.4	19.0	9	8
MVS-05/03	0.55	0.75	314	242	232	294	318	122	118	138	145	23.5	18.3	19.9	10	9
MVS-05/04	0.55	0.75	341	242	232	321	345	122	118	138	145	24.4	19.2	20.8	10	9
MVS-05/05	0.75	1	368	267	252	348	372	122	118	138	145	25.3	20.1	21.7	12	14
MVS-05/06	1.1	1.5	395	284	284	375	399	124	128	159	145	26.2	21.0	22.6	13.5	13
MVS-05/07	1.1	1.5	422	284	284	402	426	124	128	159	145	27.1	21.9	23.5	13.5	13
MVS-05/08	1.1	1.5	449	284	284	429	453	124	128	159	145	28.0	22.8	24.4	13.5	13
MVS-05/09	1.5	2	494	294	295	474	498	128	128	187	163	28.9	23.7	25.3	16.5	15
MVS-05/10	1.5	2	521	294	295	501	525	128	128	187	163	29.8	24.6	26.2	16.5	15
MVS-05/11	2.2	3	548	320	305	528	552	136	136	187	163	30.7	25.5	27.1	20	17.5
MVS-05/12	2.2	3	575	320	305	555	579	136	136	187	163	31.6	26.4	28.0	20	17.5
MVS-05/13	2.2	3	602	320	305	582	606	136	136	187	163	32.5	27.3	28.9	20	17.5
MVS-05/14	2.2	3	629	320	305	609	633	136	136	187	163	33.4	28.2	29.8	20	17.5
MVS-05/15	2.2	3	656	320	305	636	660	136	136	187	163	34.3	29.1	30.7	20	17.5
MVS-05/16	2.2	3	683	320	305	663	687	136	136	187	163	35.2	30.0	31.6	20	17.5

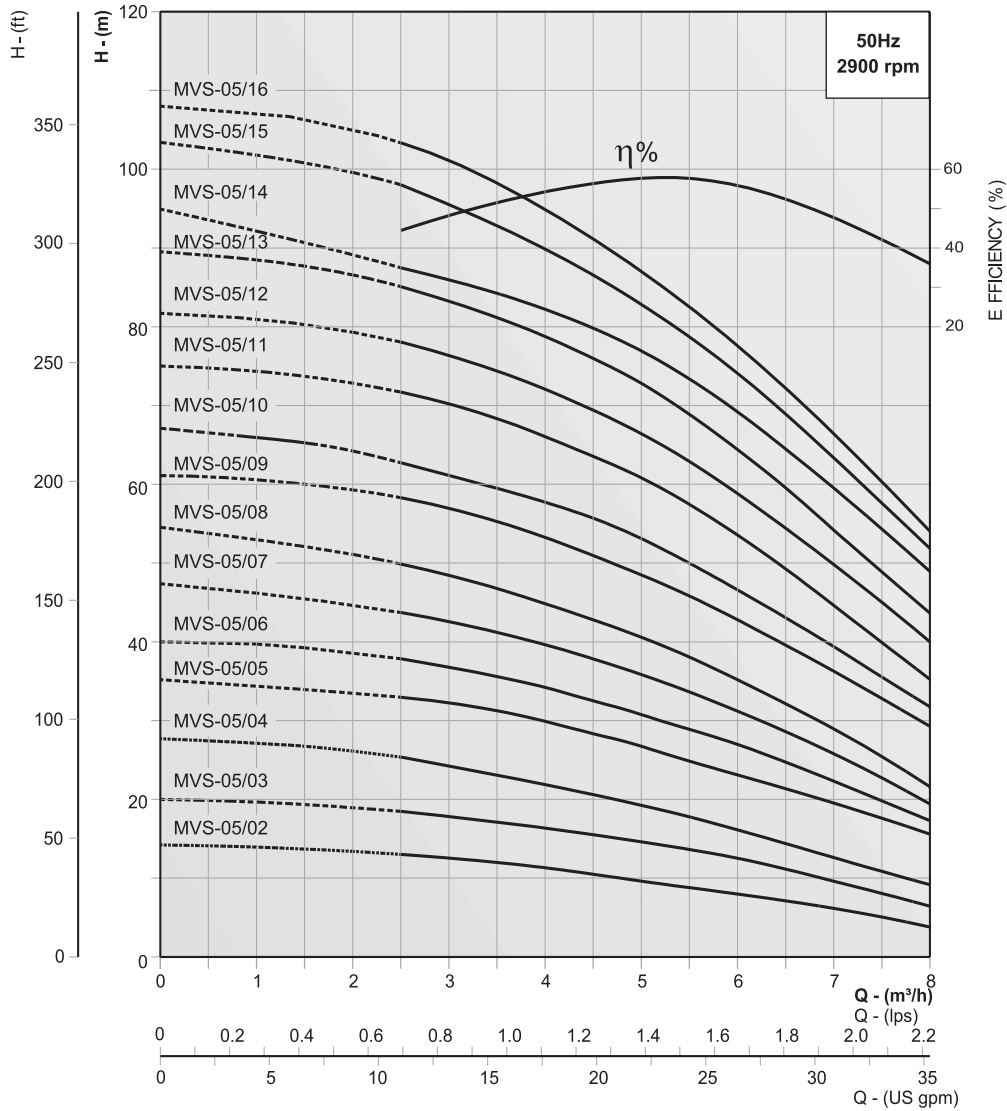
NPSHR CURVE



NOMINAL FLOW : 5m³/h

PERFORMANCE CURVES

MV-5



PERFORMANCE TABLE

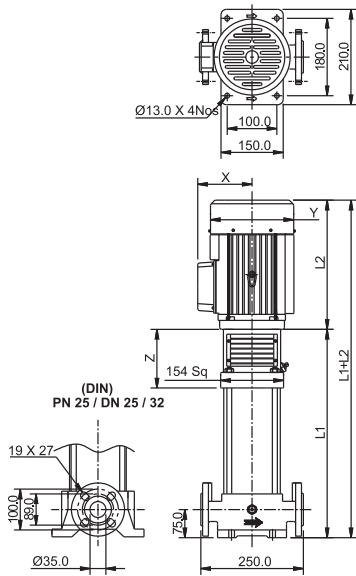
PIPE SIZE : DN 25 / 32

PUMP MODEL	MOTOR POWER		DISCHARGE						
	kW	HP	lps	0	0.55	1.11	1.66	1.94	2.22
			m ³ /h	0	2	4	6	7	8
MVS-05/02	0.37	0.5	TOTAL MANOMETRIC HEAD IN METRES	14	13.5	11.5	8	6	4
MVS-05/03	0.55	0.75		20	19	16	12.5	10	6.5
MVS-05/04	0.55	0.75		27	26	22	16	12.5	9
MVS-05/05	0.75	1.0		35	34	30	23	19.5	16
MVS-05/06	1.1	1.5		40	38	34	27	22	17.5
MVS-05/07	1.1	1.5		47	45	40	31	26	19.5
MVS-05/08	1.1	1.5		55	51	45	35	29	22
MVS-05/09	1.5	2.0		61	59	53.5	43	36	29.5
MVS-05/10	1.5	2.0		67	64	58	47	39.5	32
MVS-05/11	2.2	3.0		75	73	66	53.5	45	36
MVS-05/12	2.2	3.0		82	79	72	59	50	40
MVS-05/13	2.2	3.0		89	87	79	64	54	44
MVS-05/14	2.2	3.0		95	89	82	69	60	49
MVS-05/15	2.2	3.0		104	99.5	90	74	63	52
MVS-05/16	2.2	3.0		108	105	95	78	66.5	54

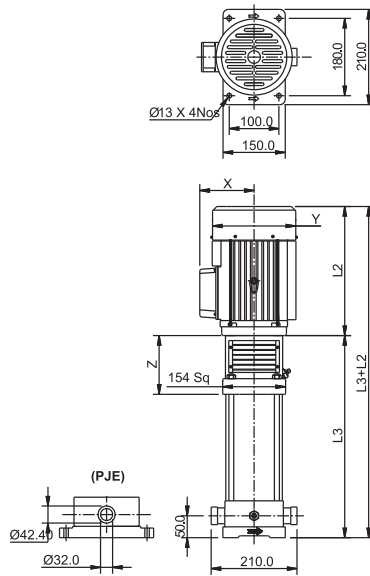
Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
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MV-5

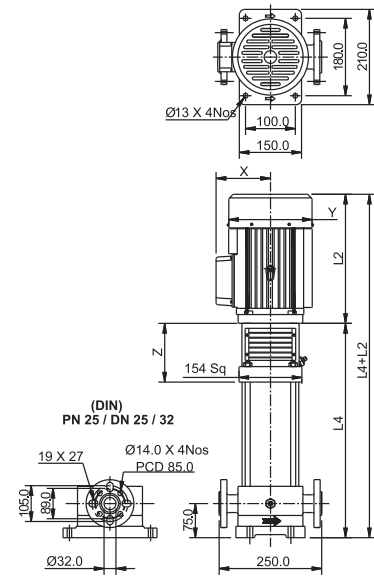
MVC (ROUND FLANGE)



MVS & N (PJE)

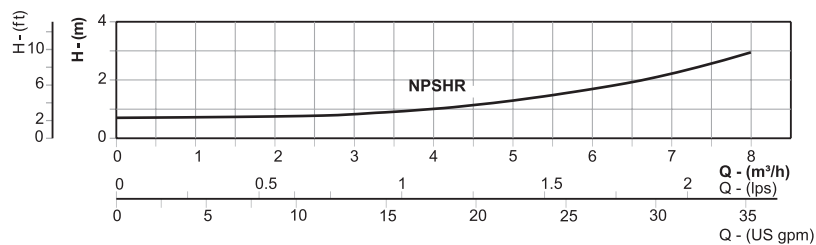


MVS & N (ROUND FLANGE)



PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)									APPROX NETT WEIGHT WITHOUT PACKING IN kg				
	kW	HP	L1	L2		L3	L4	X		ØY	Z	PUMP			MOTOR	
				1Ph	3Ph			1Ph	3Ph			MVC (Round)	MVS & N (PJE)	MVS & N (Round)	1Ph	3Ph
MVS-05/18	3	4	737	-	320	717	741	-	136	187	163	37	32	33	-	24.5
MVS-05/20	3	4	791	-	320	771	795	-	136	187	163	39	34	35	-	24.5
MVS-05/22	4	5.5	845	-	354	825	849	-	136	187	163	41	35	37	-	27.5
MVS-05/24	4	5.5	899	-	354	879	903	-	136	187	163	42	37	39	-	27.5
MVS-05/26	4	5.5	953	-	354	933	957	-	136	187	163	44	39	41	-	27.5
MVS-05/29	4	5.5	1034	-	354	1014	1038	-	136	187	163	46	42	43	-	27.5
MVS-05/32	5.5	7.5	1149	-	385	1129	1153	-	204	257	197	49	44	46	-	49
MVS-05/36	5.5	7.5	1257	-	385	1237	1261	-	204	257	197	52	48	50	-	49

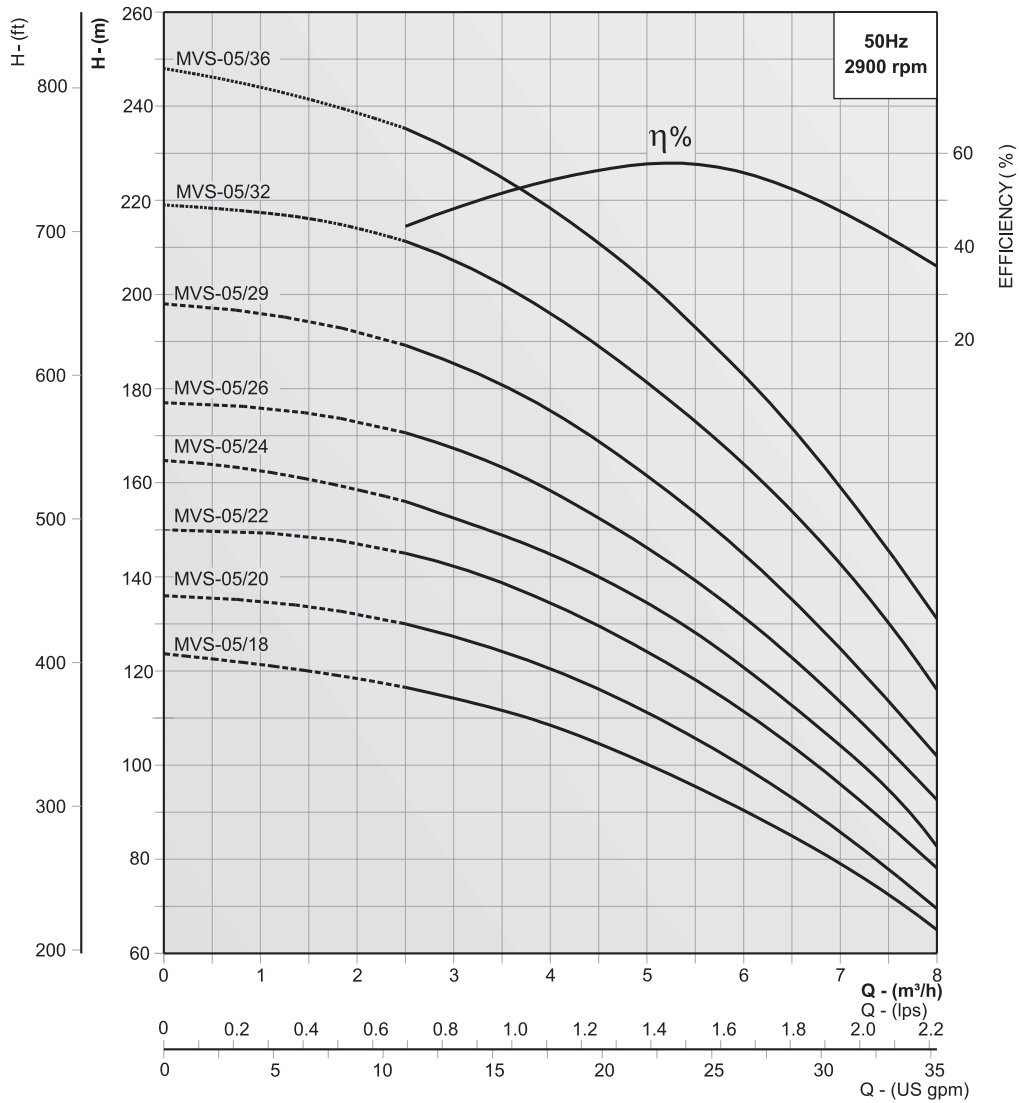
NPSHR CURVE



NOMINAL FLOW : 5m³/h

PERFORMANCE CURVES

MV-5



PERFORMANCE TABLE

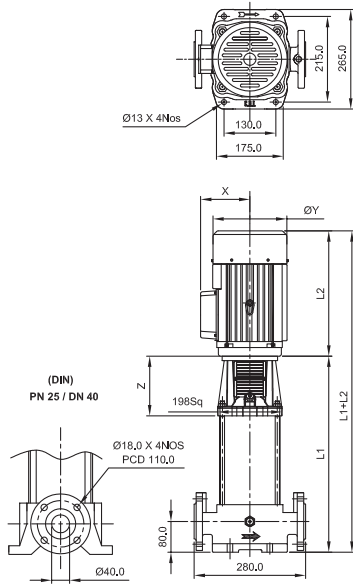
PIPE SIZE : DN 25 / 32

PUMP MODEL	MOTOR POWER		TOTAL MANOMETRIC HEAD IN METRES	DISCHARGE						
	kW	HP		lps	0	0.55	1.11	1.66	1.94	2.22
				m ³ /h	0	2	4	6	7	8
MVS-05/18	3.0	4.0			123	118	109	90	79	65
MVS-05/20	3.0	4.0		136	132	120	100	89	70	
MVS-05/22	4.0	5.5		150	147	134	112	96	78	
MVS-05/24	4.0	5.5		165	158	145	121	104	83	
MVS-05/26	4.0	5.5		177	173	158	131.5	114	93	
MVS-05/29	4.0	5.5		198	192	175	145	125	102	
MVS-05/32	5.5	7.5		219	214	196	164	143	116	
MVS-05/36	5.5	7.5		248	238	218	183	159	131	

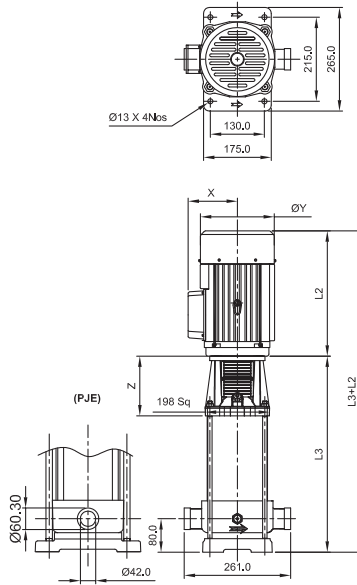
Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
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MV-10

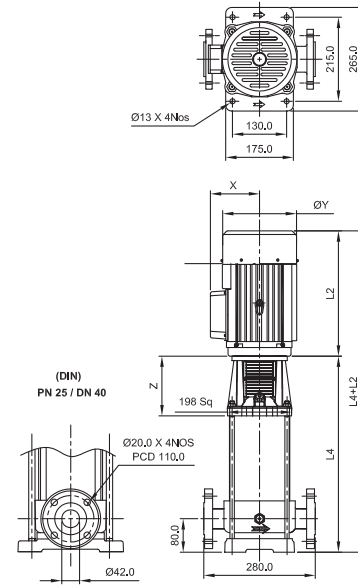
MVC (ROUND FLANGE)



MVS & N (PJE)

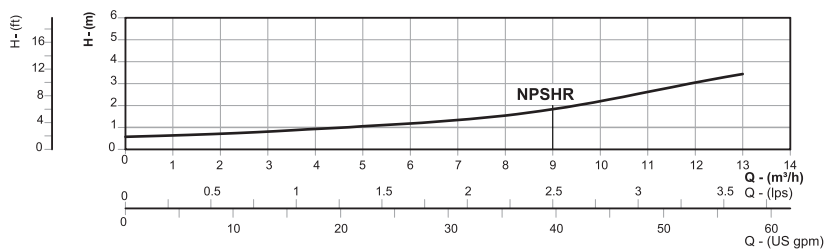


MVS & N (ROUND FLANGE)



PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)									APPROX NETT WEIGHT WITHOUT PACKING IN kg				
	kW	HP	L1	L2		L3	L4	X		ØY	Z	PUMP			MOTOR	
				1Ph	3Ph			1Ph	3Ph			MVC (Round)	MVS & N (PJE)	MVS & N (Round)	1Ph	3Ph
MVS-10/01	0.37	0.5	308	222	217	312	312	132.5	118.5	138	173	32.5	27.5	28.5	9.0	8.0
MVS-10/02	0.75	1	338	267	252	342	342	147	116	138	173	33.5	28.5	29.5	12.0	14.0
MVS-10/03	1.1	1.5	368	284	265	372	372	141	120	160	173	34.5	29.5	30.5	13.5	13.0
MVS-10/04	1.5	2	413	280	292	417	417	144	131	176	187	35.5	30.5	31.5	16.5	15.0
MVS-10/05	2.2	3	443	315	311	447	447	144	131	176	187	36.5	31.5	32.5	20.0	17.5
MVS-10/06	2.2	3	473	315	311	477	477	144	131	176	187	37.5	32.5	33.5	20.0	17.5
MVS-10/07	3	4	506	-	324	510	510	-	144	197	190	38.5	33.5	34.5	-	24.5
MVS-10/08	3	4	536	-	324	540	540	-	144	197	190	39.5	34.5	35.5	-	24.5
MVS-10/09	3	4	566	-	324	570	570	-	144	197	190	40.5	35.5	36.5	-	24.5
MVS-10/10	4	5.5	596	-	350	600	600	-	135	187	190	41.5	36.5	37.5	-	27.5
MVS-10/12	4	5.5	656	-	350	660	660	-	135	187	190	43.5	38.5	39.5	-	27.5
MVS-10/14	5.5	7.5	742	-	385	746	746	-	205	257	216	49.5	44.5	45.5	-	49.0
MVS-10/16	5.5	7.5	802	-	385	806	806	-	205	257	216	51.5	46.5	47.5	-	49.0
MVS-10/18	7.5	10	862	-	424	866	866	-	205	257	216	53.5	48.5	49.5	-	50.5
MVS-10/20	7.5	10	922	-	424	926	926	-	205	257	216	55.5	50.5	51.5	-	50.5
MVS-10/22	7.5	10	982	-	424	986	986	-	205	257	216	57.5	52.5	53.5	-	50.5

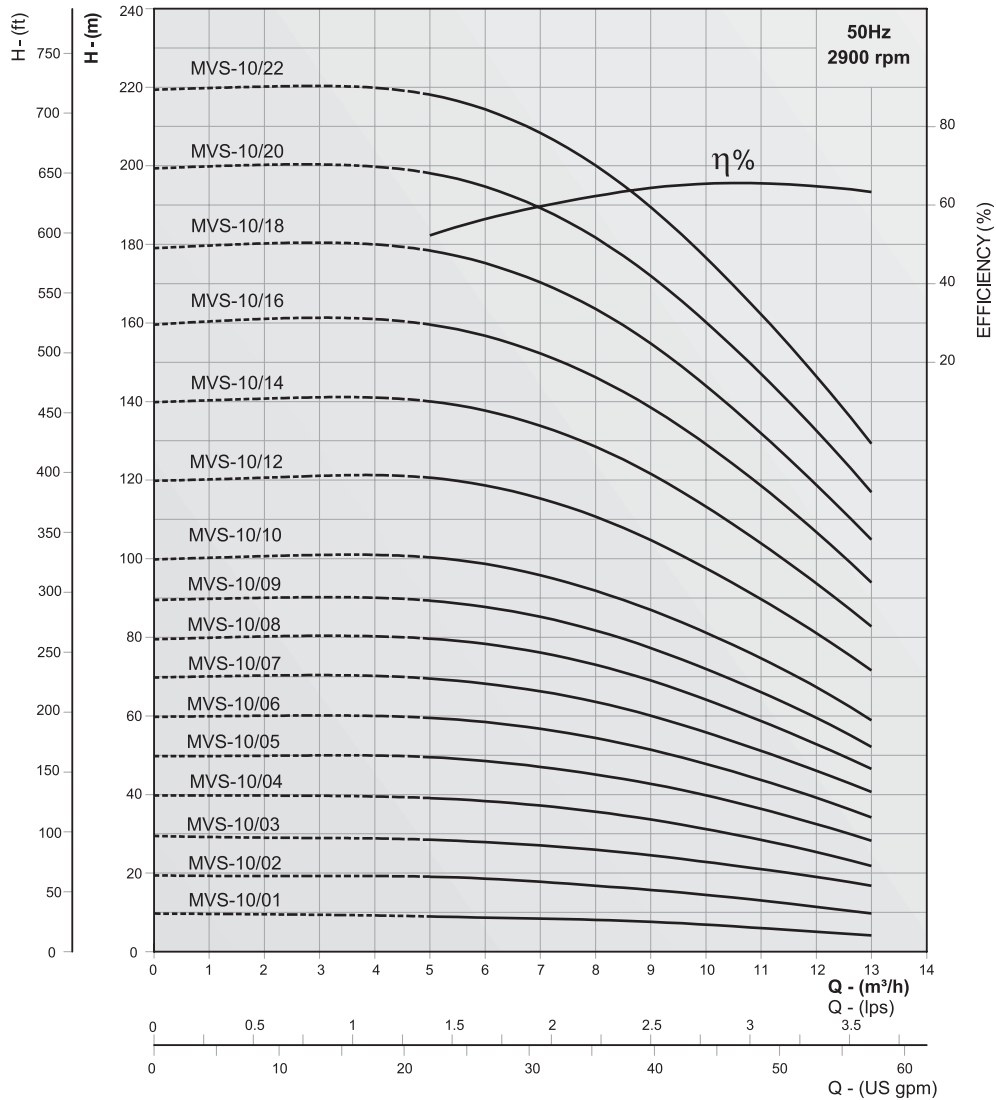
NPSHR CURVE



NOMINAL FLOW : 10m³/h

PERFORMANCE CURVES

MV-10



PERFORMANCE TABLE

PIPE SIZE : DN 40

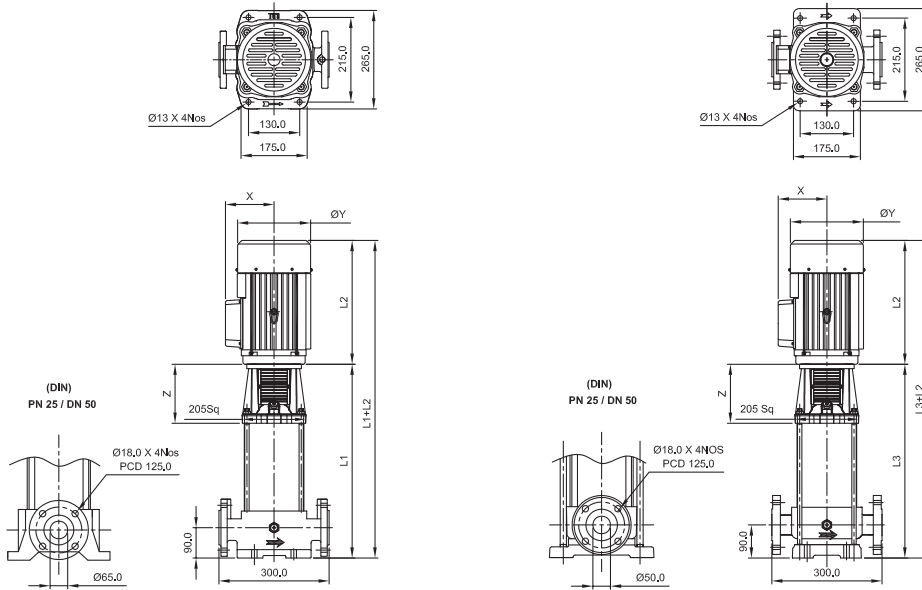
PUMP MODEL	MOTOR POWER		DISCHARGE								
	kW	HP	lps	0	0.56	1.11	1.67	2.22	2.78	3.34	3.61
			m ³ /h	0	2	4	6	8	10	12	13
MVS-10/01	0.37	0.5	TOTAL MANOMETRIC HEAD IN METRES	10	9.8	9	8.5	8	7	5	4.2
MVS-10/02	0.75	1		19.5	19.2	19.2	18.5	17	14.2	11.5	9.8
MVS-10/03	1.1	1.5		29.5	29	28.5	28	26	23	19	17
MVS-10/04	1.5	2		39.8	39.8	39.5	38	36	31	25.5	22
MVS-10/05	2.2	3		50	50	50	48.5	45	40	32.5	28
MVS-10/06	2.2	3		59.8	60	60	58.5	54	48	39	34.2
MVS-10/07	3	4		69.7	70.3	70	68	63.5	56	48	41
MVS-10/08	3	4		79.5	80	80.3	78.2	73	64	53	46.8
MVS-10/09	3	4		90.3	90	90	88	82	72	59.5	52
MVS-10/10	4	5.5		98.7	100.8	101	98.5	91.8	81.2	77.7	59
MVS-10/12	4	5.5		119.8	120.8	121.5	119.6	110.7	97.5	81	71.8
MVS-10/14	5.5	7.5		139.7	140.8	141	138.8	128.3	113.2	93.7	83
MVS-10/16	5.5	7.5	159.8	161	161	156.5	146	129	106.8	94	
MVS-10/18	7.5	10	179	180	180	175.3	163.5	144	118.7	105	
MVS-10/20	7.5	10	199.2	200	199.8	195.4	182	160.3	130.4	117	
MVS-10/22	7.5	10	219	220	219.7	214.3	200	177.5	147.5	129.5	

Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
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MV-15

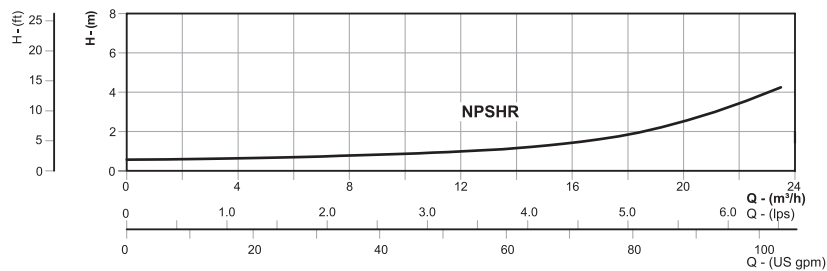
MVC (ROUND FLANGE)

MVS & N (ROUND FLANGE)



PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)								APPROX NETT WEIGHT WITHOUT PACKING IN kg			
	kW	HP	L1	L3	L2		X		ØY	Z	PUMP		MOTOR	
			MVC (R)	MVS & N (R)	1Ph	3Ph	1Ph	3Ph			MVC	MVS & N	1Ph	3Ph
MVS-15/01	1.1	1.5	348	343	284	265	141	120	160	173	38	33	13.5	13
MVS-15/02	2.2	3	407	402	315	311	144	131	170	187	39	34	20	17.5
MVS-15/03	3	4	455	450	-	324	-	144	197	190	40	35	-	24.5
MVS-15/04	4	5.5	500	495	-	350	-	162	187	190	41	36	-	27.5
MVS-15/05	4	5.5	545	540	-	350	-	162	187	190	42	37	-	27.5
MVS-15/06	5.5	7.5	616	611	-	385	-	205	257	216	46	41	-	49
MVS-15/07	5.5	7.5	661	656	-	385	-	205	257	216	47	42	-	49
MVS-15/08	7.5	10	706	701	-	424	-	205	257	216	48	43	-	50.5
MVS-15/09	7.5	10	751	746	-	424	-	205	257	216	49	44	-	50.5
MVS-15/10	11	15	885	880	-	500.5	-	261	314	305	68	63	-	107
MVS-15/12	11	15	975	970	-	500.5	-	261	314	305	70	65	-	107
MVS-15/14	11	15	1065	1060	-	500.5	-	261	314	305	72	67	-	107
MVS-15/17	15	20	1200	1195	-	500.5	-	261	314	305	75	70	-	117

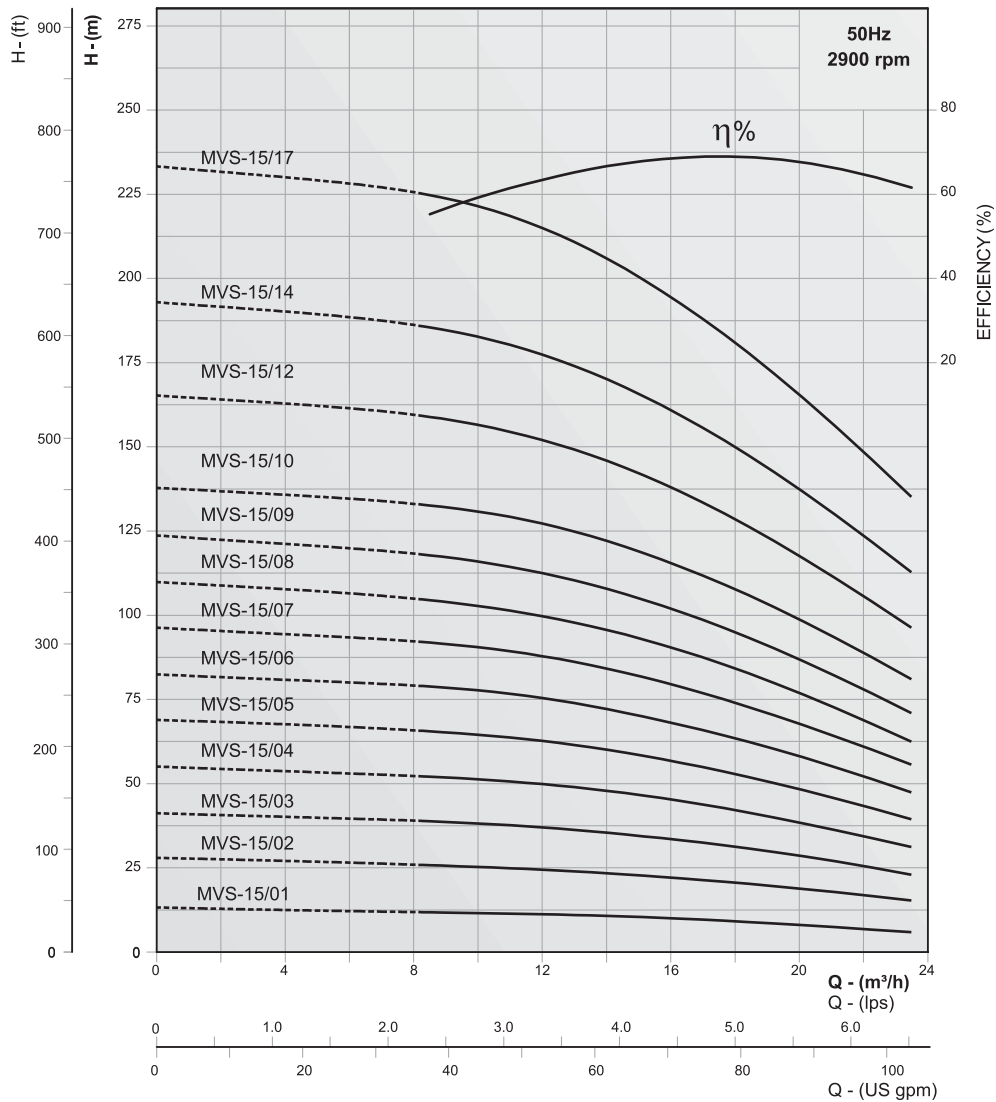
NPSHR CURVE



NOMINAL FLOW : 15m³/h

PERFORMANCE CURVES

MV-15



PERFORMANCE TABLE

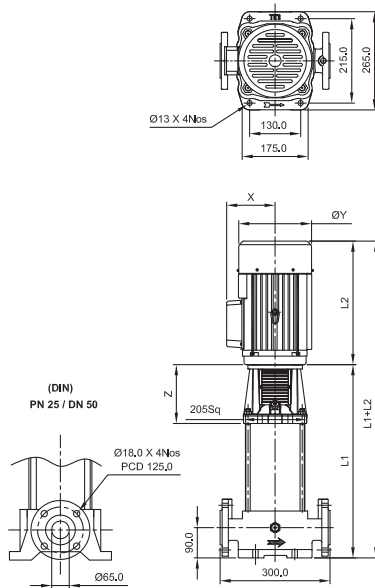
PIPE SIZE : DN 50

PUMP MODEL	MOTOR POWER		DISCHARGE	DISCHARGE							
	kW	HP		lps	0	1.11	2.22	3.34	4.45	5.56	6.53
			TOTAL MANOMETRIC HEAD IN METRES	m ³ /h	0	4	8	12	16	20	23.5
MVS-15/01	1.1	1.5		13	12.5	12	11	10	7.5	6	
MVS-15/02	2.2	3		27.5	27	26	24.5	22.5	18.5	15	
MVS-15/03	3	4		41	40	39.5	37	33	28	22.5	
MVS-15/04	4	5.5		55	53	52.5	50	45	38.5	31	
MVS-15/05	4	5.5		69	67.5	66	62.5	57	48	39	
MVS-15/06	5.5	7.5		82.5	81	79.5	75.5	68	58	47	
MVS-15/07	5.5	7.5		96	94.5	92.5	87.5	79	67.5	56	
MVS-15/08	7.5	10		110	107.5	105	100	90	77	62	
MVS-15/09	7.5	10		123	121	118	112.5	102	87	71	
MVS-15/10	11	15		137.5	136	132.5	127	115	98	81	
MVS-15/12	11	15		165	162.5	159.5	152	138	117.5	96	
MVS-15/14	11	15		192.5	190	186	177.5	160	137.5	112.5	
MVS-15/17	15	20		232.5	230	225	215	194.5	165	135	

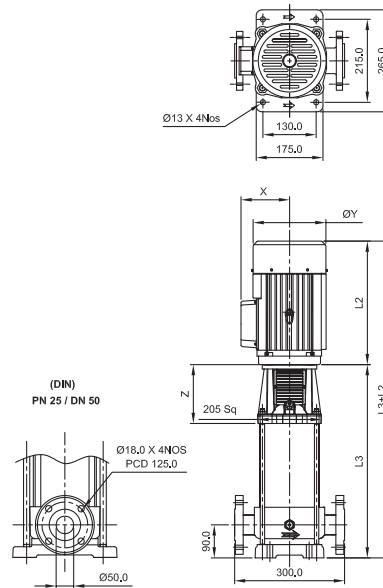
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MV-20

MVC (ROUND FLANGE)

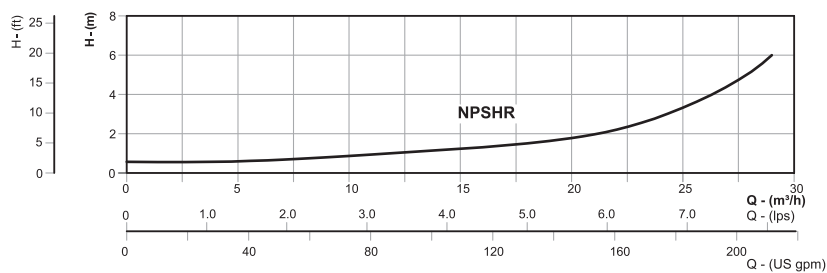


MVS & N (ROUND FLANGE)



PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)								APPROX NETT WEIGHT WITHOUT PACKING IN kg			
	kW	HP	L1	L3	L2		X		ØY	Z	PUMP		MOTOR	
			MVC (R)	MVS & N (R)	1Ph	3Ph	1Ph	3Ph			MVC	MVS & N	1Ph	3Ph
MVS-20/01	1.1	1.5	348	343	284	265	141	120	160	173	38	33	13.5	13
MVS-20/02	2.2	3	407	402	315	311	144	131	176	187	39	34	20	17.5
MVS-20/03	4	5.5	455	447	-	350	-	135	187	190	40	35	-	27.5
MVS-20/04	5.5	7.5	529	521	-	385	-	205	257	216	45	40	-	49
MVS-20/05	5.5	7.5	574	566	-	385	-	205	257	216	46	41	-	49
MVS-20/06	7.5	10	619	611	-	424	-	205	257	216	47	42	-	50.5
MVS-20/07	7.5	10	664	656	-	424	-	205	257	216	48	43	-	50.5
MVS-20/08	11	15	798	790	-	500.5	-	261	314	305	67	62	-	107
MVS-20/10	11	15	932	924	-	500.5	-	261	314	305	69	64	-	107
MVS-20/12	15	20	1066	1058	-	500.5	-	261	314	305	71	66	-	117
MVS-20/14	15	20	1200	1192	-	500.5	-	261	314	305	73	68	-	117
MVS-20/17	18.5	25	1334	1326	-	500.5	-	261	314	305	76	71	-	134

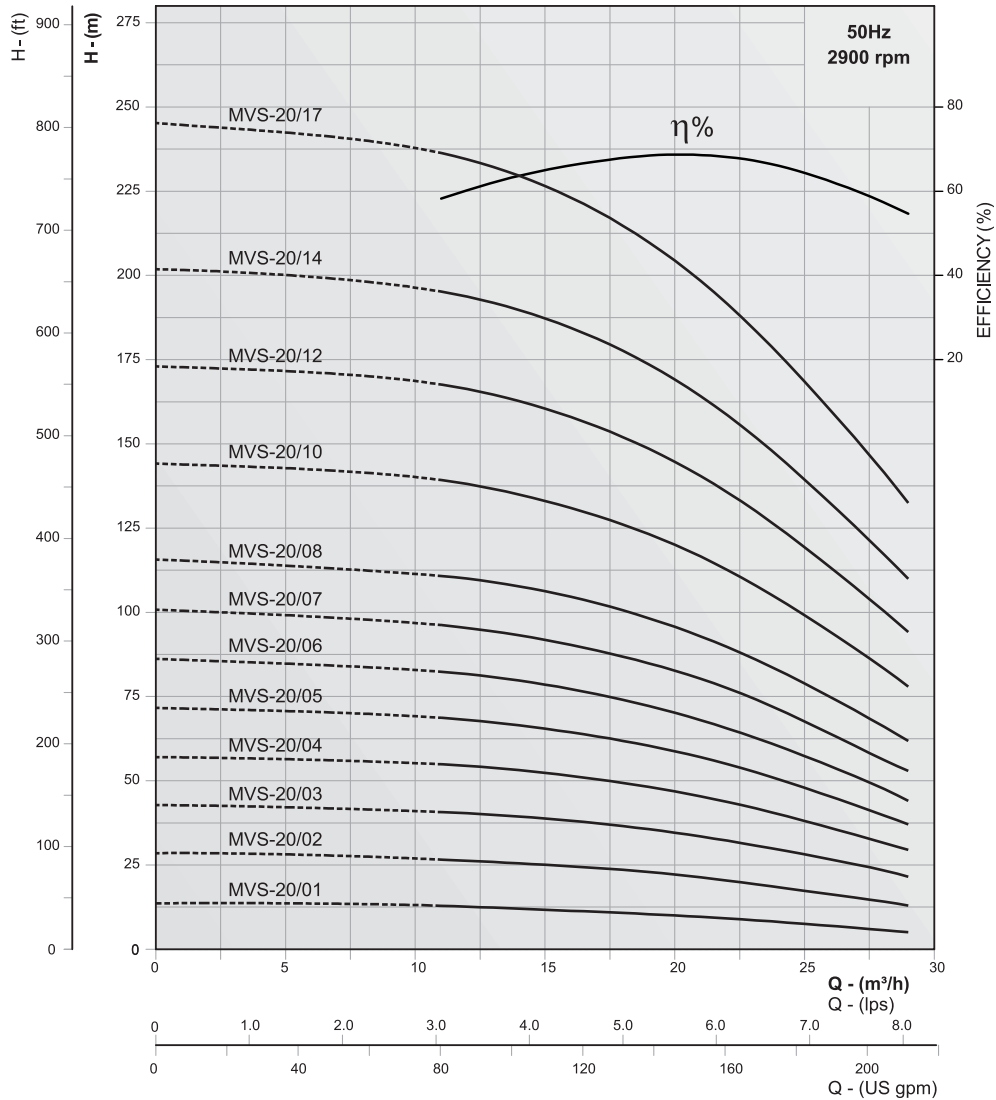
NPSHR CURVE



NOMINAL FLOW : 20m³/h

PERFORMANCE CURVES

MV-20



PERFORMANCE TABLE

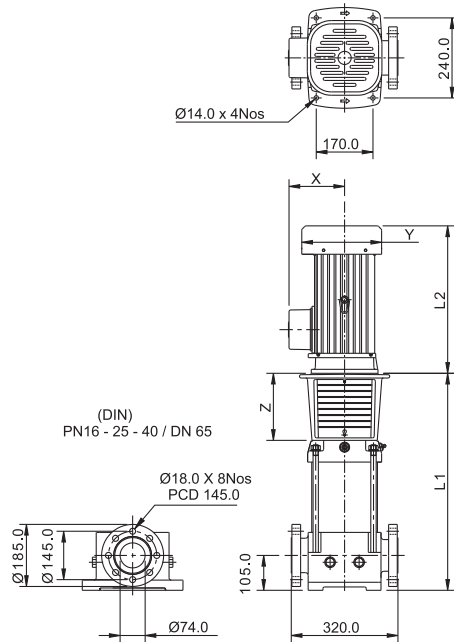
PIPE SIZE : 50

PUMP MODEL	MOTOR POWER		DISCHARGE								
	kW	HP		lps	0	1.39	2.78	4.17	5.56	6.95	8.06
			TOTAL MANOMETRIC HEAD IN METRES	m ³ /h	0	5	10	15	20	25	29
MVS-20/01	1.1	1.5		0	13.7	13.7	13	12	10	7.5	5
MVS-20/02	2.2	3		0	28.7	28	26	25	22.5	17.5	13
MVS-20/03	4	5.5		0	43	42	41.5	38.7	34	28	22
MVS-20/04	5.5	7.5		0	57	56.2	55	52.5	47	38	29
MVS-20/05	5.5	7.5		0	71.3	70.5	69	65.5	58.8	47.5	37
MVS-20/06	7.5	10		0	88	85	83	76.2	67.5	57.5	44.5
MVS-20/07	7.5	10		0	101.3	98.5	97	92	82.5	67.5	52.5
MVS-20/08	11	15		0	116	113.7	112	106.7	96	78.5	62
MVS-20/10	11	15		0	146	142.5	140	133	120	98	66
MVS-20/12	15	20		0	173	171	168.8	160.5	145	119	94
MVS-20/14	15	20		0	202	200	197	187.5	169	137	110
MVS-20/17	18.5	25		0	245	242.5	238	226	204	168	132.5

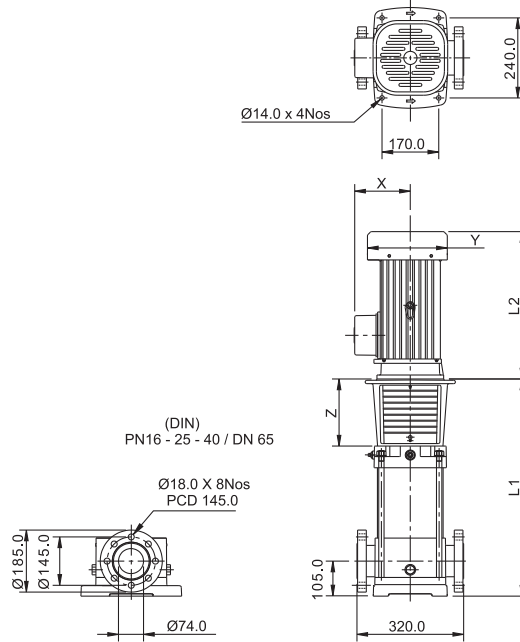
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MV-32

MVC (ROUND FLANGE)



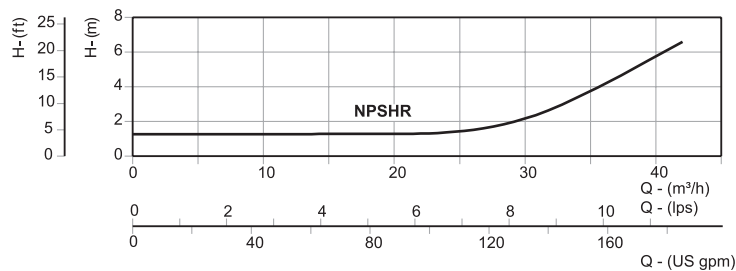
MVS & N (ROUND FLANGE)



DIMENSIONS & WEIGHT

PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)							APPROX NETT WEIGHT WITHOUT PACKING IN kg			
	kW	HP	L1	L2		X		ØY	Z	PUMP		MOTOR	
				1Ph	3Ph	1Ph	3Ph			MVC	MVS & N	1Ph	3Ph
MVS-32/01A	1.5	2	510	294	295	128	128	187	201	59	64	16.5	15
MVS-32/01	2.2	3	510	320	305	136	136	187	201	59	64	20	17.5
MVS-32/02B	3	4	580	-	320	-	136	187	201	62	67	-	24.5
MVS-32/02A	4	5.5	580	-	354	-	136	187	201	62	67	-	27.5
MVS-32/02	4	5.5	580	-	354	-	136	187	201	62	67	-	27.5
MVS-32/03B	5.5	7.5	650	-	385	-	204	257	201	64	69	-	49
MVS-32/03	5.5	7.5	650	-	385	-	204	257	201	64	69	-	48
MVS-32/04B	7.5	10	720	-	424	-	204	257	201	67	72	-	50.5
MVS-32/04	7.5	10	720	-	424	-	204	257	201	67	72	-	50.5
MVS-32/05B	11	15	895	-	495	-	223	312	305	83	88	-	107
MVS-32/05	11	15	895	-	495	-	223	312	305	83	88	-	107
MVS-32/06B	11	15	965	-	495	-	223	312	305	86	91	-	107
MVS-32/06	11	15	965	-	495	-	223	312	305	86	91	-	107
MVS-32/07B	15	20	1035	-	495	-	223	312	305	89	94	-	117
MVS-32/07	15	20	1035	-	495	-	223	312	305	89	94	-	117
MVS-32/08B	15	20	1105	-	495	-	223	312	305	92	97	-	117

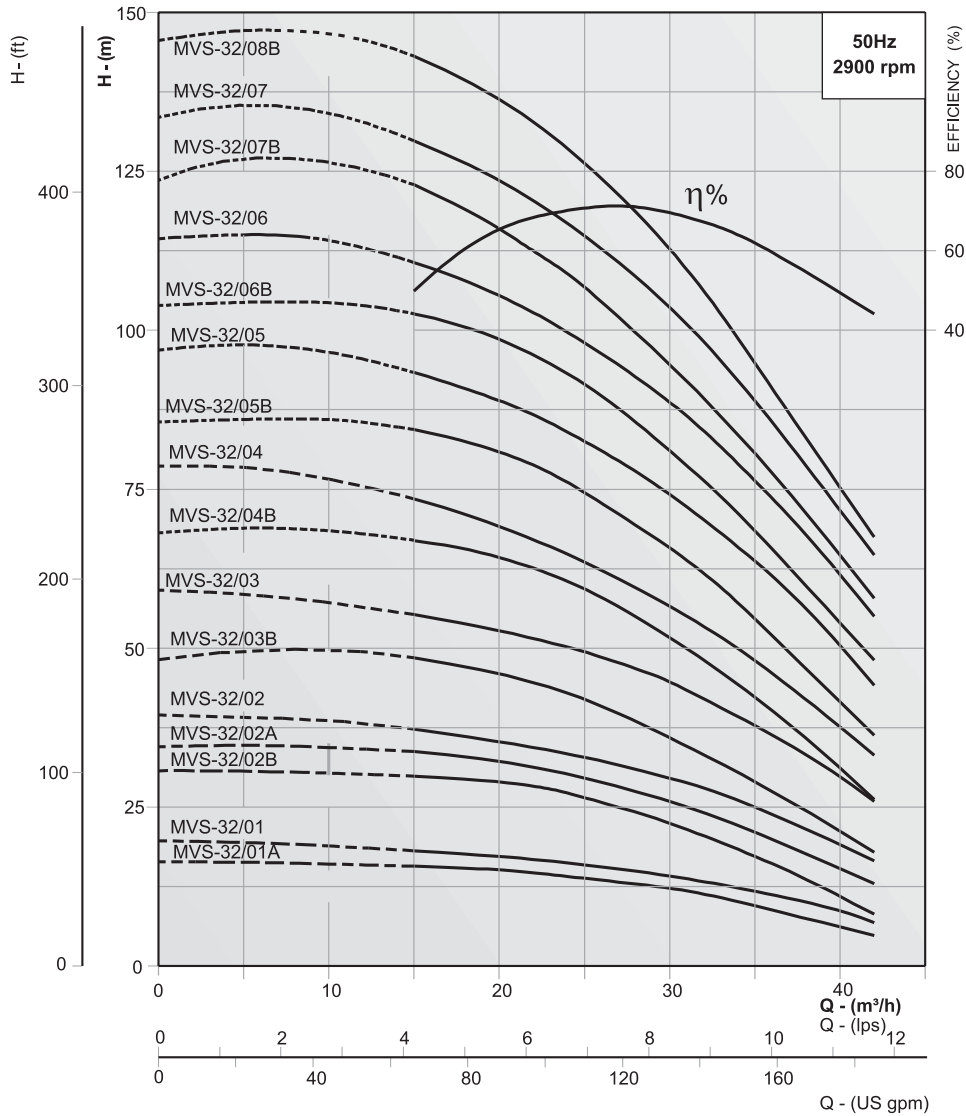
NPSHR CURVE



NOMINAL FLOW : 32m³/h

PERFORMANCE CURVES

MV-32



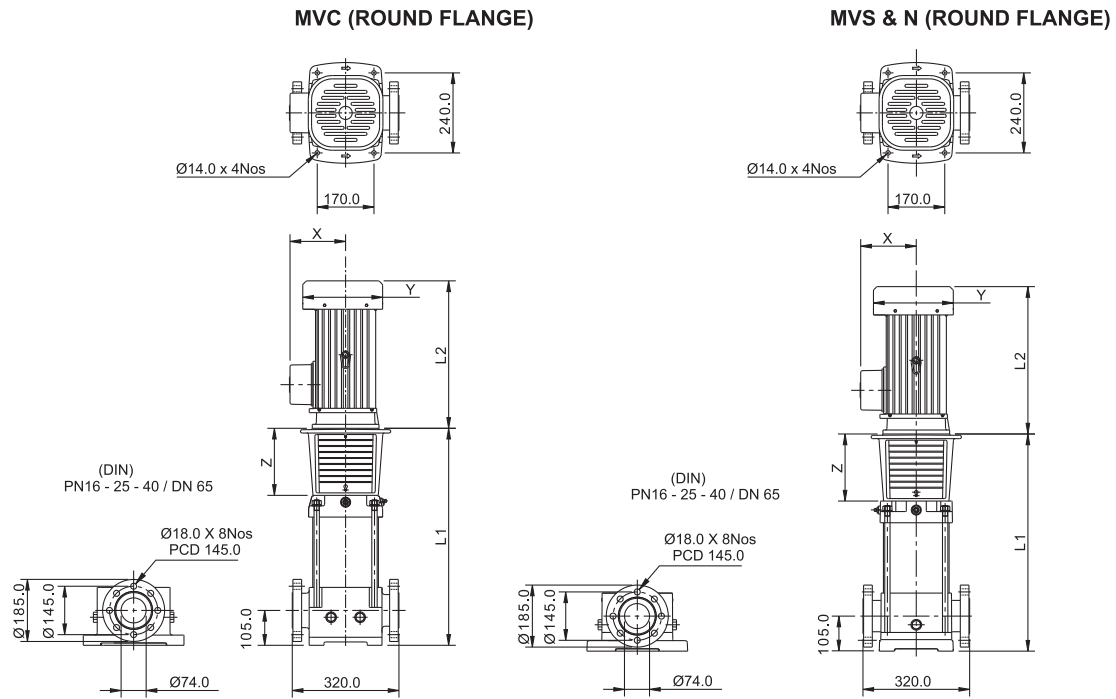
PERFORMANCE TABLE

PIPE SIZE : DN 65

PUMP MODEL	MOTOR POWER		DISCHARGE								
			0	2.78	4.17	5.56	6.95	8.34	9.73	11.67	
	kW	HP	lps m ³ /h	0	10	15	20	25	30	35	42
MVS-32/01A	1.5	2	TOTAL MANOMETRIC HEAD IN METRES	17	16.5	16	15	14	13	9	5
MVS-32/01	2.2	3		20	19	18	17	16	14	12	7
MVS-32/02B	3	4		31	30.5	30	29	26	23	17	8
MVS-32/02A	4	5.5		34	34	33	32	29.5	26	21	13
MVS-32/02	4	5.5		39	38	37	35	33	29.5	25	17
MVS-32/03B	5.5	7.5		48	50	48	46	42	36	28	18
MVS-32/03	5.5	7.5		59	57	55	53	49.5	45	38	26
MVS-32/04B	7.5	10		68	68	67	64	59.5	52	43	26
MVS-32/04	7.5	10		78	76	74	69	64	56	47	34
MVS-32/05B	11	15		86	87	84	81	75	66	55	36
MVS-32/05	11	15		97	97.5	94	89	83	74	64	44
MVS-32/06B	11	15		104	105	103	98	93	82	68	48
MVS-32/06	11	15		114	114	111	105	98	88	76	55
MVS-32/07B	15	20		124	126	123	116	107	95	81	57
MVS-32/07	15	20	134	134	130	123	115	104	89	65	
MVS-32/08B	15	20	146	146.5	143	136	126	113	95	67	

Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
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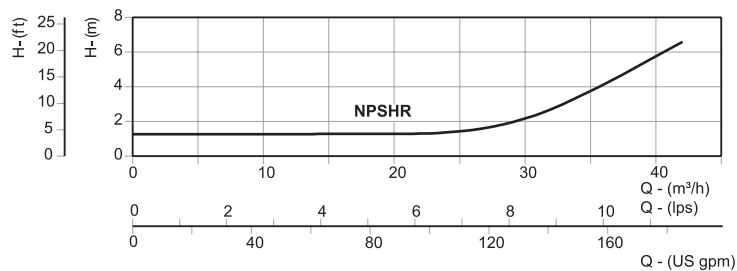
MV-32



DIMENSIONS & WEIGHT

PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)							APPROX NETT WEIGHT WITHOUT PACKING IN kg			
	kW	HP	L1	L2		X		ØY	Z	PUMP		MOTOR	
				1Ph	3Ph	1Ph	3Ph			MVC	MVS & N	1Ph	3Ph
MVS-32/08	15	20	1105	-	495	-	223	312	305	92	97	-	117
MVS-32/09B	18.5	25	1175	-	495	-	223	312	305	95	100	-	134
MVS-32/09	18.5	25	1175	-	495	-	223	312	305	95	100	-	134
MVS-32/10B	18.5	25	1245	-	495	-	223	312	305	98	103	-	134
MVS-32/10	18.5	25	1245	-	495	-	223	312	305	98	103	-	134
MVS-32/11B	22	30	1315	-	630	-	271	sq340	305	101	106	-	180
MVS-32/11	22	30	1315	-	630	-	271	sq340	305	101	106	-	180
MVS-32/12B	22	30	1385	-	630	-	271	sq340	305	104	109	-	180
MVS-32/12	22	30	1385	-	630	-	271	sq340	305	104	109	-	180
MVS-32/13B	30	40	1455	-	630	-	271	sq340	305	108	113	-	242
MVS-32/13	30	40	1455	-	630	-	271	sq340	305	108	113	-	242
MVS-32/14B	30	40	1575	-	630	-	271	sq340	305	111	116	-	242
MVS-32/14	30	40	1575	-	630	-	271	sq340	305	111	116	-	242

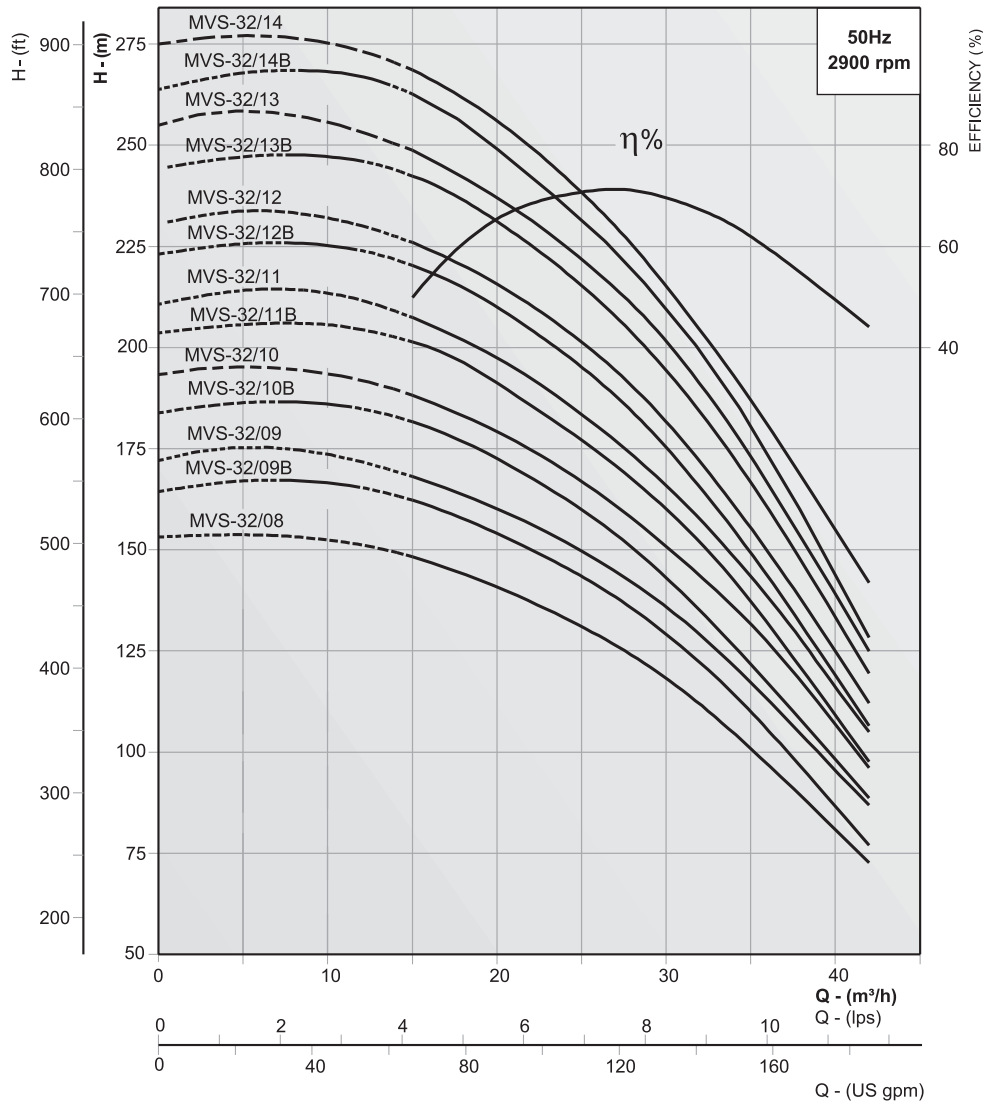
NPSHR CURVE



NOMINAL FLOW : 32m³/h

PERFORMANCE CURVES

MV-32



PERFORMANCE TABLE

PIPE SIZE : DN 65

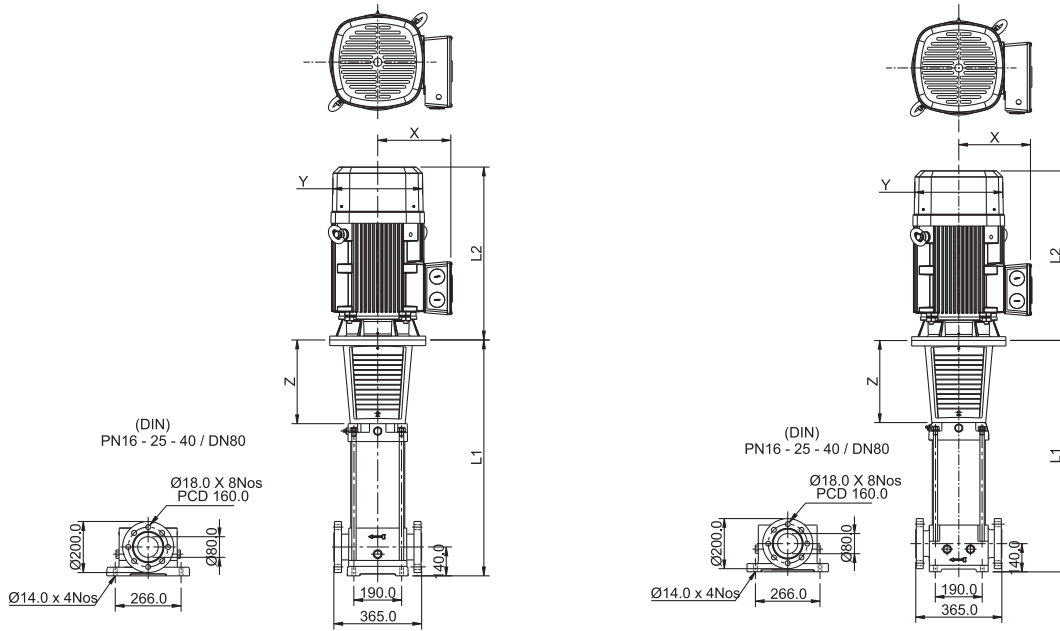
PUMP MODEL	MOTOR POWER		DISCHARGE								
			lps	0	2.78	4.17	5.56	6.95	8.34	9.73	11.67
	kW	HP	m ³ /h	0	10	15	20	25	30	35	42
MVS-32/08	15	20	TOTAL MANOMETRIC HEAD IN METRES	153	152	148	141	131	118	101	73
MVS-32/09B	18.5	25		164	166	163	154	143	129	110	77
MVS-32/09	18.5	25		172	174	168	160	150	136	117	88
MVS-32/10B	18.5	25		184	185	182	173	160	144	122	89
MVS-32/10	18.5	25		193	194	189	180	167	150	132	97
MVS-32/11B	22	30		204	205	202	191	177	160	137	97
MVS-32/11	22	30		211	213	208	197	184	165	144	105
MVS-32/12B	22	30		223	225	220	210	195	175	150	107
MVS-32/12	22	30		230	232	226	215	202	182	155	113
MVS-32/13B	30	40		245	247	243	231	215	195	167	120
MVS-32/13	30	40		255	255	249	237	222	202	173	125
MVS-32/14B	30	40		265	269	263	250	232	210	180	129
MVS-32/14	30	40		275	275	269	256	239	215	187	142

Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
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MV-44

MVC (ROUND FLANGE)

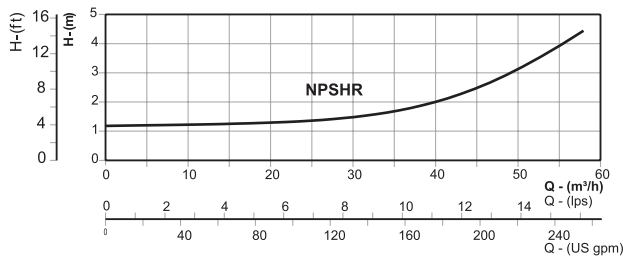
MVS & N (ROUND FLANGE)



DIMENSIONS & WEIGHT

PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)							APPROX NETT WEIGHT WITHOUT PACKING IN kg			
	kW	HP	L1	L2		X		ØY	Z	PUMP		MOTOR	
				1Ph	3Ph	1Ph	3Ph			MVC	MVS & N	1Ph	3Ph
MVS-44/01A	3	4	564	-	320	-	136	187	201	67	64	-	24.5
MVS-44/01	4	5.5	564	-	354	-	136	187	201	67	64	-	27.5
MVS-44/02B	5.5	7.5	644	-	385	-	204	257	201	71	68	-	49
MVS-44/02	7.5	10	644	-	424	-	204	257	201	71	68	-	50.5
MVS-44/03B	11	15	828	-	495	-	223	312	305	89	86	-	107
MVS-44/03	11	15	828	-	495	-	223	312	305	89	86	-	107
MVS-44/04B	15	20	908	-	495	-	223	312	305	93	90	-	117
MVS-44/04	15	20	908	-	495	-	223	312	305	93	90	-	117
MVS-44/05B	18.5	25	988	-	495	-	223	312	305	97	94	-	134
MVS-44/05	18.5	25	988	-	495	-	223	312	305	97	94	-	134
MVS-44/06B	22	30	1068	-	630	-	271	sq340	305	101	98	-	180
MVS-44/06	22	30	1068	-	630	-	271	sq340	305	101	98	-	180

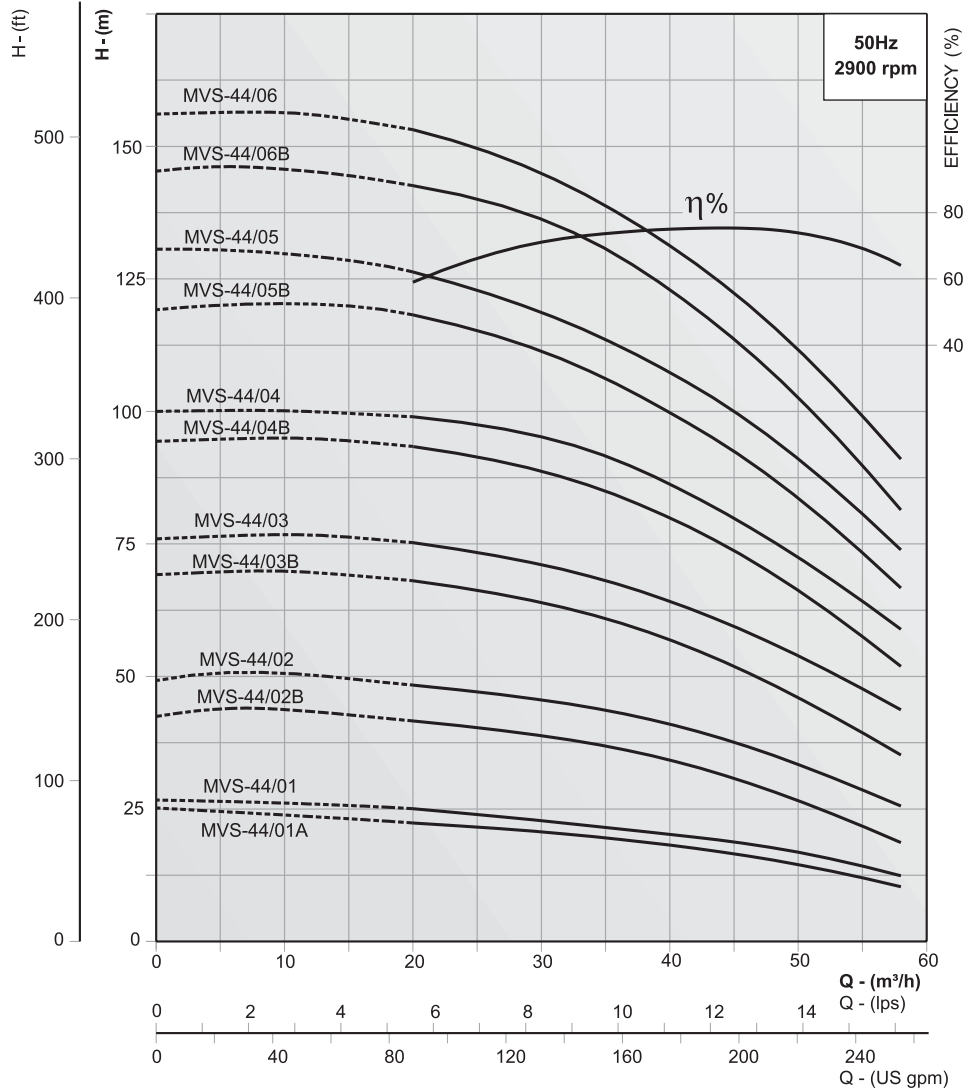
NPSHR CURVE



NOMINAL FLOW : 44m³/h

PERFORMANCE CURVES

MV-44



PERFORMANCE TABLE

PIPE SIZE : DN 80

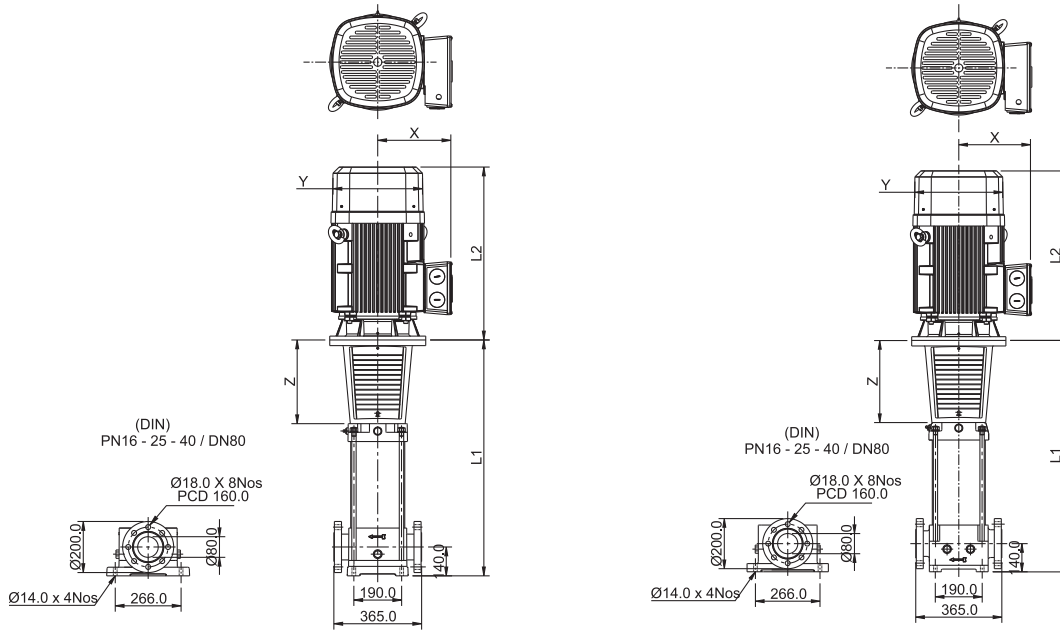
PUMP MODEL	MOTOR POWER		DISCHARGE							
	kW	HP	lps m ³ /h	0	2.78	5.55	8.33	11.11	13.88	16.11
MVS-44/01A	3	4	TOTAL MANOMETRIC HEAD IN METRES	0	10	20	30	40	50	58
MVS-44/01	4	5.5		25	24	22	20	18	15	10
MVS-44/02B	5.5	7.5		26	25.5	25	22	20	16.5	12.5
MVS-44/02	7.5	10		42.5	44	41	39	34.5	26	19
MVS-44/03B	11	15		49.5	50.5	49	45	40.5	34	25
MVS-44/03	11	15		69.5	70	68	64	56.5	41	35
MVS-44/04B	15	20		75.5	76.5	75	70.5	64	54	44
MVS-44/04	15	20		95	95	94	89	80	65.5	52
MVS-44/05B	18.5	25		100	100	99	95	86	72.5	59
MVS-44/05	18.5	25		120	120	118	111	100	84	66
MVS-44/06B	22	30		130	130	126	119	107	90.5	74.5
MVS-44/06	22	30		145	145.5	142.5	136	123	103	81
				155.5	156	153	145	131	112	91

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MV-44

MVC (ROUND FLANGE)

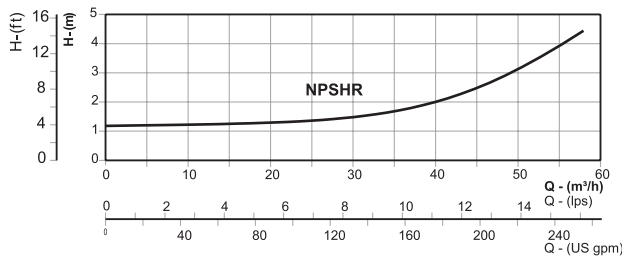
MVS & N (ROUND FLANGE)



DIMENSIONS & WEIGHT

PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)							APPROX NETT WEIGHT WITHOUT PACKING IN kg			
	kW	HP	L1	L2		X		ØY	Z	PUMP		MOTOR	
				1Ph	3Ph	1Ph	3Ph			MVC	MVS & N	1Ph	3Ph
MVS-44/07B	30	40	1148	-	630	-	271	sq340	305	106	103	-	242
MVS-44/07	30	40	1148	-	630	-	271	sq340	305	106	103	-	242
MVS-44/08B	30	40	1228	-	630	-	271	sq340	305	110	107	-	242
MVS-44/08	30	40	1228	-	630	-	271	sq340	305	110	107	-	242
MVS-44/09B	30	40	1308	-	630	-	271	sq340	305	114	111	-	242
MVS-44/09	37	50	1308	-	650	-	276	395	305	117	114	-	258
MVS-44/10B	37	50	1388	-	650	-	276	395	305	121	118	-	258
MVS-44/10	37	50	1388	-	650	-	276	395	305	121	118	-	258
MVS-44/11B	45	60	1468	-	695	-	297	435	305	125	122	-	320
MVS-44/11	45	60	1468	-	695	-	297	435	305	125	122	-	320
MVS-44/12B	45	60	1548	-	695	-	297	435	305	129	126	-	320
MVS-44/12	45	60	1548	-	695	-	297	435	305	129	126	-	320
MVS-44/13B	45	60	1628	-	695	-	297	435	305	129	126	-	320

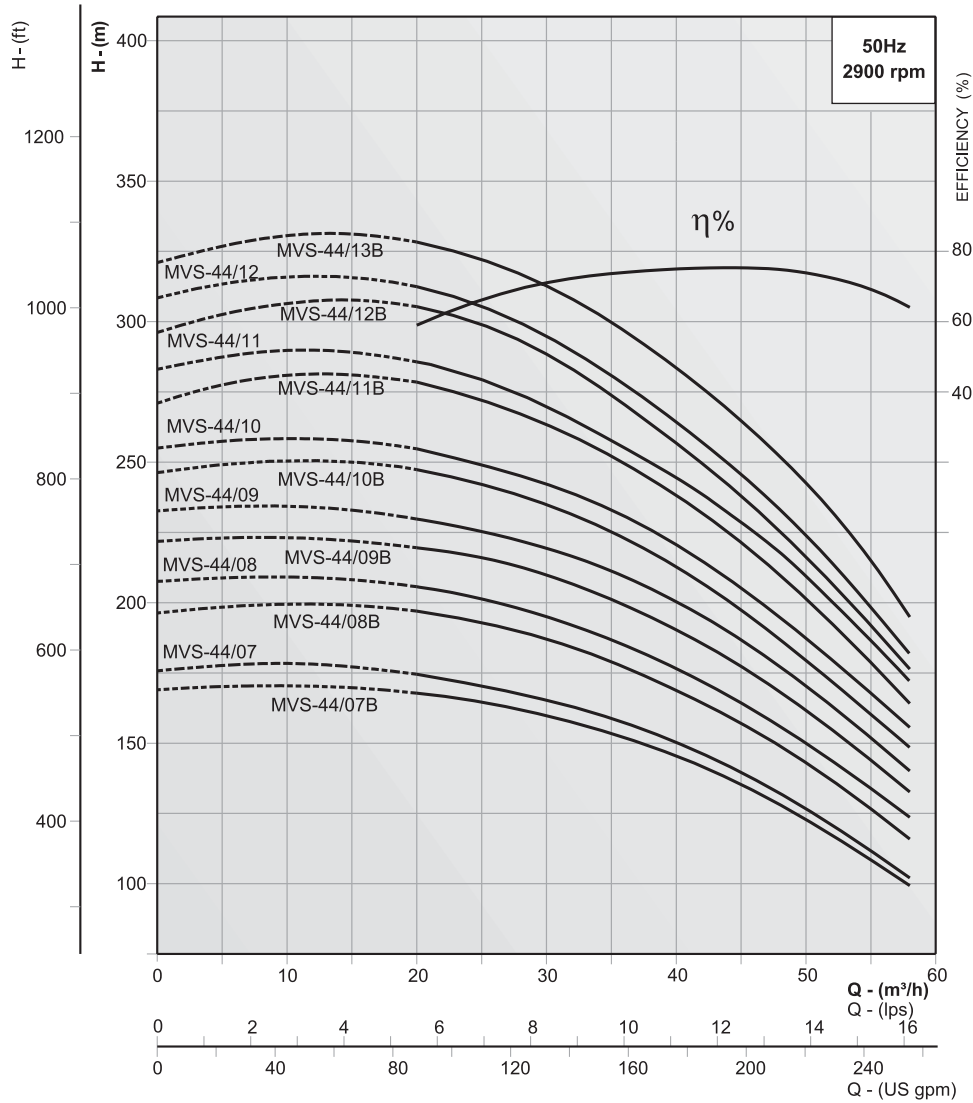
NPSHR CURVE



NOMINAL FLOW : 44m³/h

PERFORMANCE CURVES

MV-44



PERFORMANCE TABLE

PIPE SIZE : DN 80

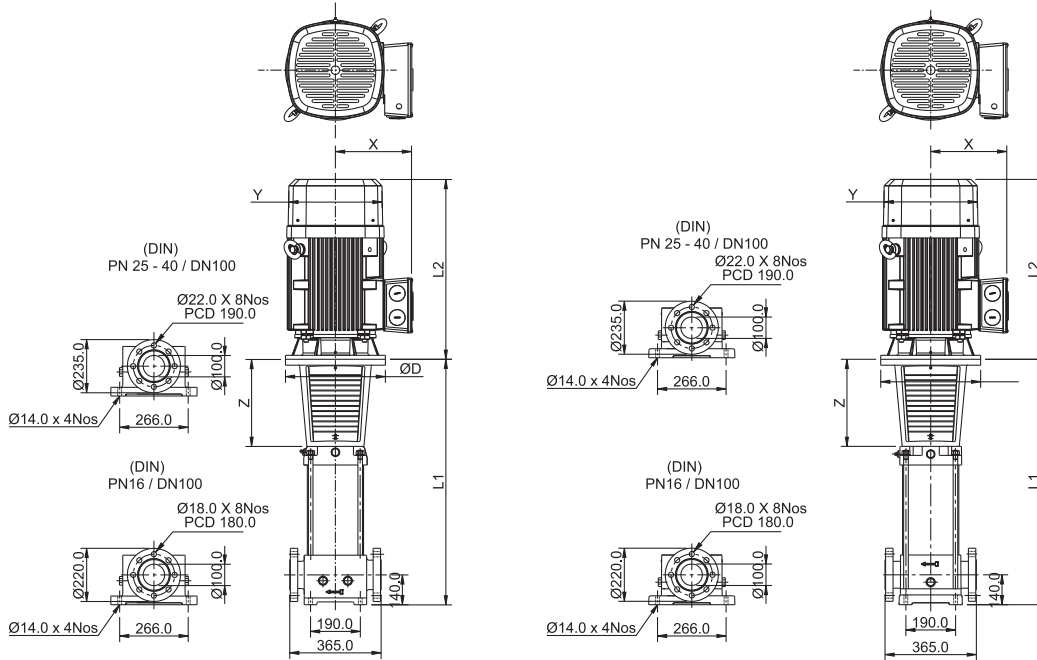
PUMP MODEL	MOTOR POWER		DISCHARGE							
	kW	HP	lps m ³ /h	0	2.78	5.55	8.33	11.11	13.88	16.11
MVS-44/07B	30	40	TOTAL MANOMETRIC HEAD IN METRES	0	10	20	30	40	50	58
MVS-44/07	30	40		169.5	170	168	160	145	123	100
MVS-44/08B	30	40		175.5	178.5	175	165	150	126	102.5
MVS-44/08	30	40		196	200	196.5	187	169	143	116
MVS-44/09B	30	40		207	209.5	205	195	176	150	124
MVS-44/09	37	50		222	224	220	210	190	162	133
MVS-44/10B	37	50		233	235	230	220	200	170	140
MVS-44/10	37	50		246	250	247.5	235	213	180	149
MVS-44/11B	45	60		255	258	255	242.5	220	187	155
MVS-44/11	45	60		271	280.5	278	264	238	201	165
MVS-44/12B	45	60		284	290	285	270	245	210	173
MVS-44/12	45	60		296	306	305	289	256	215	176
MVS-44/13B	45	60		309	315.5	313	295	265	224	182
				321	330.5	328	314	284	242	195

Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
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MV-66

MVC (ROUND FLANGE)

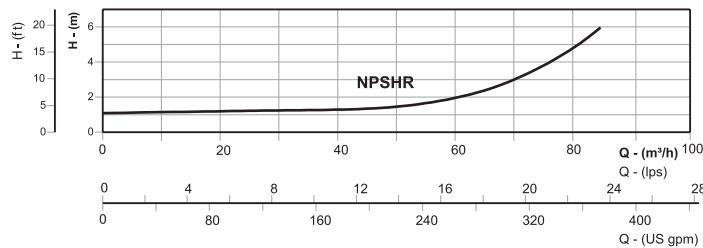
MVS & N (ROUND FLANGE)



DIMENSIONS & WEIGHT

PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)							APPROX NETT WEIGHT WITHOUT PACKING IN kg			
	kW	HP	L1	L2		X		$\varnothing Y$	Z	PUMP		MOTOR	
				1Ph	3Ph	1Ph	3Ph			MVC	MVS & N	1Ph	3Ph
MVS-66/01A	4	5.5	564	-	354	-	136	187	201	83	80	-	27.5
MVS-66/01	5.5	7.5	564	-	385	-	204	257	201	84	81	-	49
MVS-66/02B	7.5	10	644	-	424	-	204	257	201	87	84	-	50.5
MVS-66/02A	11	15	644	-	495	-	223	312	305	101	98	-	107
MVS-66/02	11	15	644	-	495	-	223	312	305	101	98	-	107
MVS-66/03B	15	20	828	-	495	-	223	312	305	105	102	-	117
MVS-66/03A	15	20	828	-	495	-	223	312	305	105	102	-	117
MVS-66/03	18.5	25	828	-	495	-	223	312	305	105	102	-	134
MVS-66/04B	18.5	25	908	-	495	-	223	312	305	109	106	-	134
MVS-66/04A	22	30	908	-	630	-	271	sq340	305	109	106	-	180
MVS-66/04	22	30	908	-	630	-	271	sq340	305	109	106	-	180

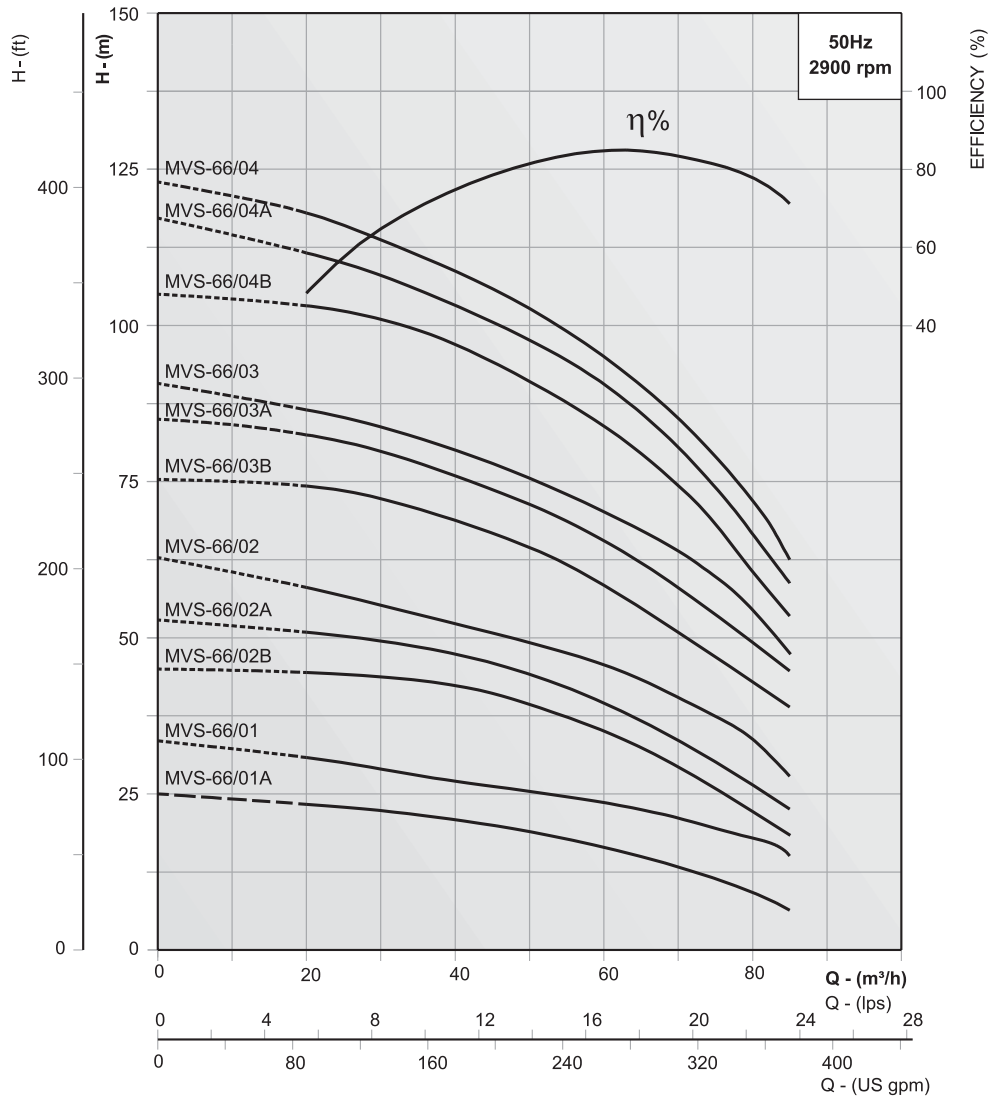
NPSHR CURVE



NOMINAL FLOW : 66m³/h

PERFORMANCE CURVES

MV-66



PERFORMANCE TABLE

PIPE SIZE : DN 100

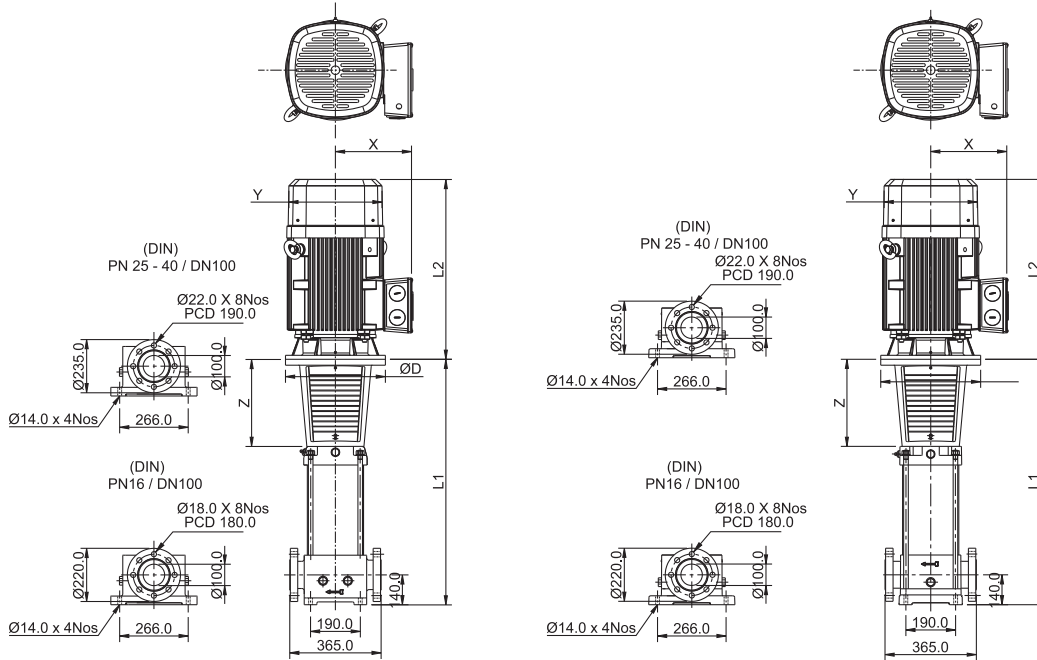
PUMP MODEL	MOTOR POWER		DISCHARGE	DISCHARGE					
	kW	HP		lps	0	5.56	11.12	16.68	22.24
MVS-66/01A	4	5.5	TOTAL MANOMETRIC HEAD IN METRES	0	20	40	60	80	85
MVS-66/01	5.5	7.5		25	23	21	17	09	06
MVS-66/02B	7.5	10		38	36	27	23	17	20
MVS-66/02A	11	15		45	44	42	35	23	18
MVS-66/02	11	15		53	51	47	39	26	23
MVS-66/03B	15	20		63	58	52	46	35	30
MVS-66/03A	15	20		75	74	68	58	43	38
MVS-66/03	18.5	25		85	82	76	66	49	44
MVS-66/04B	18.5	25		91	87	80	70	55	47
MVS-66/04A	22	30		105	103	97	84	60	53
MVS-66/04	22	30		117	112	103	91	67	58
				123	118	108	95	72	63

Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
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MV-66

MVC (ROUND FLANGE)

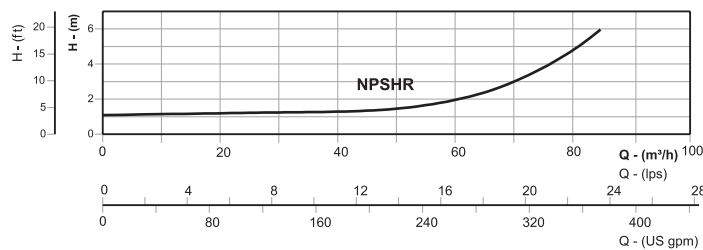
MVS & N (ROUND FLANGE)



DIMENSIONS & WEIGHT

PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)							APPROX NETT WEIGHT WITHOUT PACKING IN kg			
	kW	HP	L1	L2		X		ØY	Z	PUMP		MOTOR	
				1Ph	3Ph	1Ph	3Ph			MVC	MVS & N	1Ph	3Ph
MVS-66/05B	30	40	988	-	630	-	271	sq340	305	114	111	-	242
MVS-66/05A	30	40	988	-	630	-	271	sq340	305	114	111	-	242
MVS-66/05	30	40	988	-	630	-	271	sq340	305	114	111	-	242
MVS-66/06B	30	40	1068	-	630	-	271	sq340	305	118	115	-	242
MVS-66/06A	37	50	1068	-	650	-	276	395	305	121	118	-	258
MVS-66/06	37	50	1068	-	650	-	276	395	305	121	118	-	258
MVS-66/07B	37	50	1148	-	650	-	276	395	305	125	122	-	258
MVS-66/07A	37	50	1148	-	650	-	276	395	305	125	122	-	258
MVS-66/07	45	60	1148	-	695	-	297	435	305	125	122	-	320
MVS-66/08B	45	60	1228	-	695	-	297	435	305	129	126	-	320
MVS-66/08A	45	60	1228	-	695	-	297	435	305	129	126	-	320

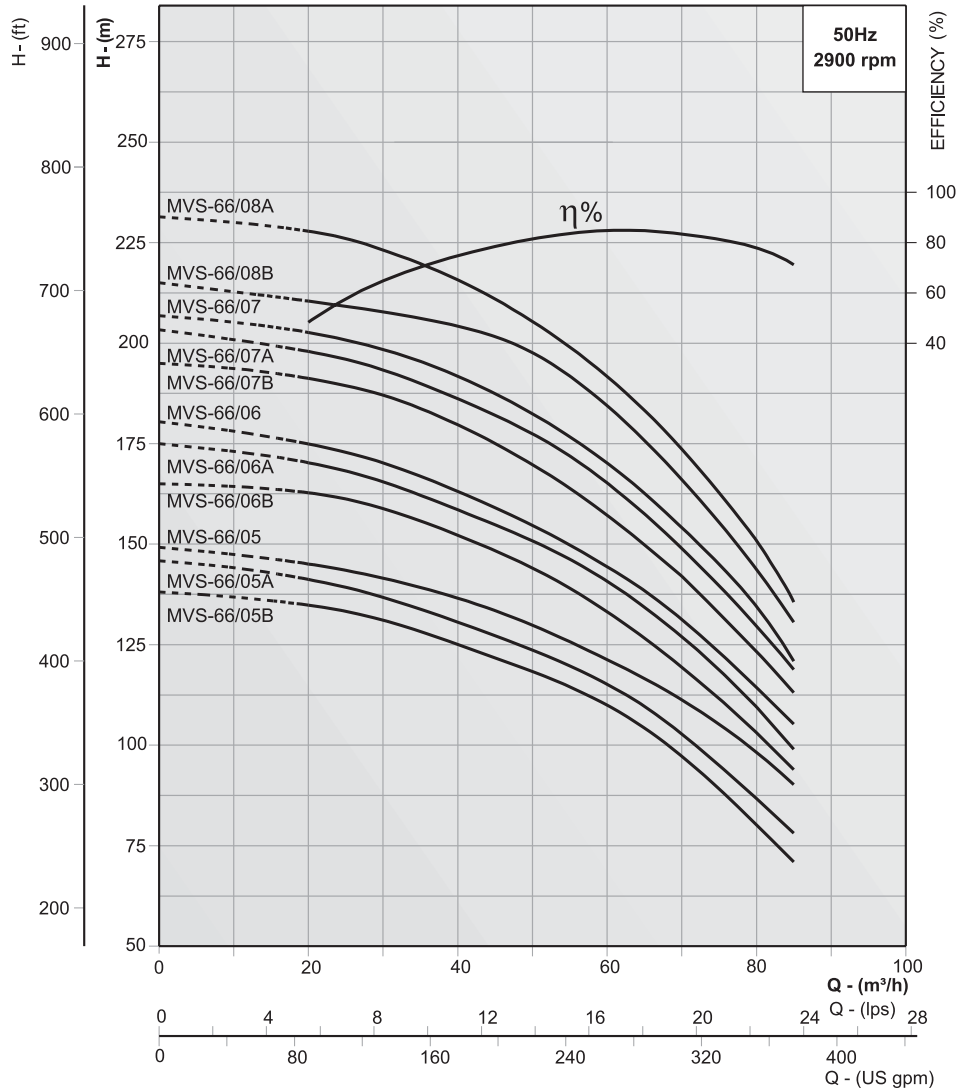
NPSHR CURVE



NOMINAL FLOW : 66m³/h

PERFORMANCE CURVES

MV-66



PERFORMANCE TABLE

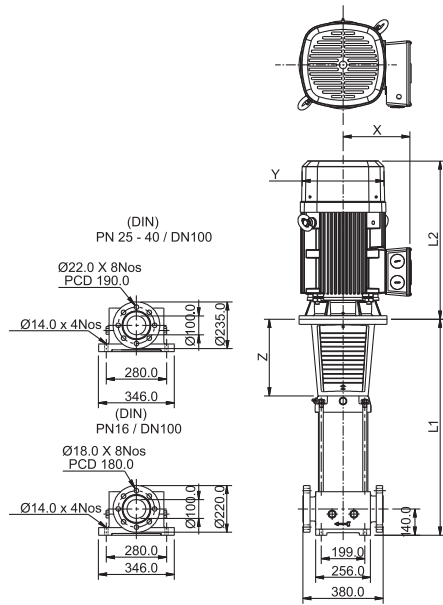
PIPE SIZE : DN 100

PUMP MODEL	MOTOR POWER		DISCHARGE	DISCHARGE					
	kW	HP		lps m ³ /h	0	5.56	11.12	16.68	22.24
MVS-66/05B	30	40	TOTAL MANOMETRIC HEAD IN METRES	0	20	40	60	80	85
MVS-66/05A	30	40		138	135	125	110	79	68
MVS-66/05	30	40		146	142	131	115	88	78
MVS-66/06B	30	40		148	145	137	121	98	90
MVS-66/06A	37	50		165	163	153	138	103	94
MVS-66/06	37	50		175	170	158	141	110	98
MVS-66/07B	37	50		180	175	168	144	115	110
MVS-66/07A	37	50		195	192	180	157	123	113
MVS-66/07	45	60		203	198	186	165	130	119
MVS-66/08B	45	60		207	203	192	170	139	121
MVS-66/08A	45	60		215	211	204	184	144	132
				232	227	216	192	151	136

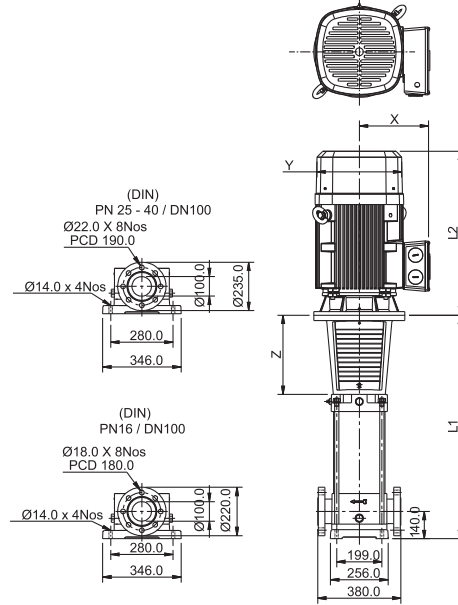
Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
 The given performance is same for Type - C, S & N
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MV-90

MVC (ROUND FLANGE)



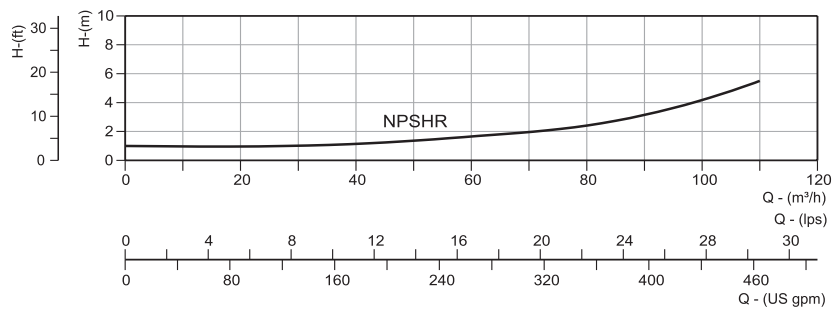
MVS & N (ROUND FLANGE)



DIMENSIONS & WEIGHT

PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)							APPROX NETT WEIGHT WITHOUT PACKING IN kg			
	kW	HP	L1	L2		X		ØY	Z	PUMP		MOTOR	
				1Ph	3Ph	1Ph	3Ph			MVC	MVS & N	1Ph	3Ph
MVS-90/01A	5.5	7.5	572	-	385	-	204	257	201	80	78	-	49
MVS-90/01	7.5	10	572	-	424	-	204	257	201	80	78	-	50.5
MVS-90/02B	11	15	768	-	495	-	223	312	305	102	100	-	107
MVS-90/02	15	20	768	-	495	-	223	312	305	102	100	-	117
MVS-90/03B	18.5	25	860	-	495	-	223	312	305	110	108	-	134
MVS-90/03	22	30	860	-	630	-	271	sq340	305	110	108	-	180
MVS-90/04B	30	40	952	-	630	-	271	sq340	305	118	116	-	242
MVS-90/04	30	40	952	-	630	-	271	sq340	305	118	116	-	242
MVS-90/05B	37	50	1044	-	650	-	276	395	305	129	127	-	258
MVS-90/05	37	50	1044	-	650	-	276	395	305	129	127	-	258
MVS-90/06B	45	60	1136	-	695	-	297	435	305	137	135	-	320
MVS-90/06	45	60	1136	-	695	-	297	435	305	137	135	-	320

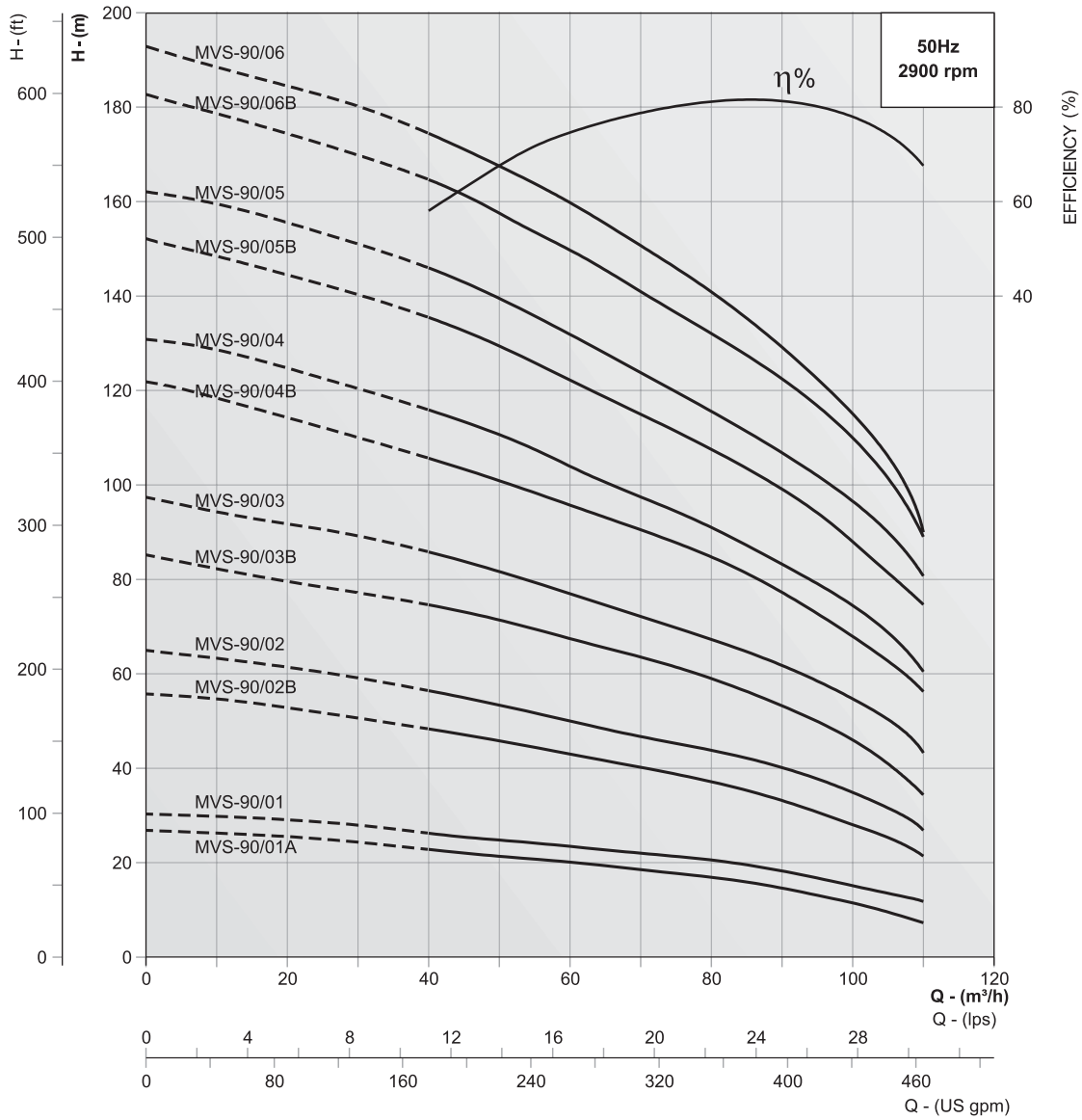
NPSHR CURVE



NOMINAL FLOW : 90m³/h

PERFORMANCE CURVES

MV-90



PERFORMANCE TABLE

PIPE SIZE : DN 100

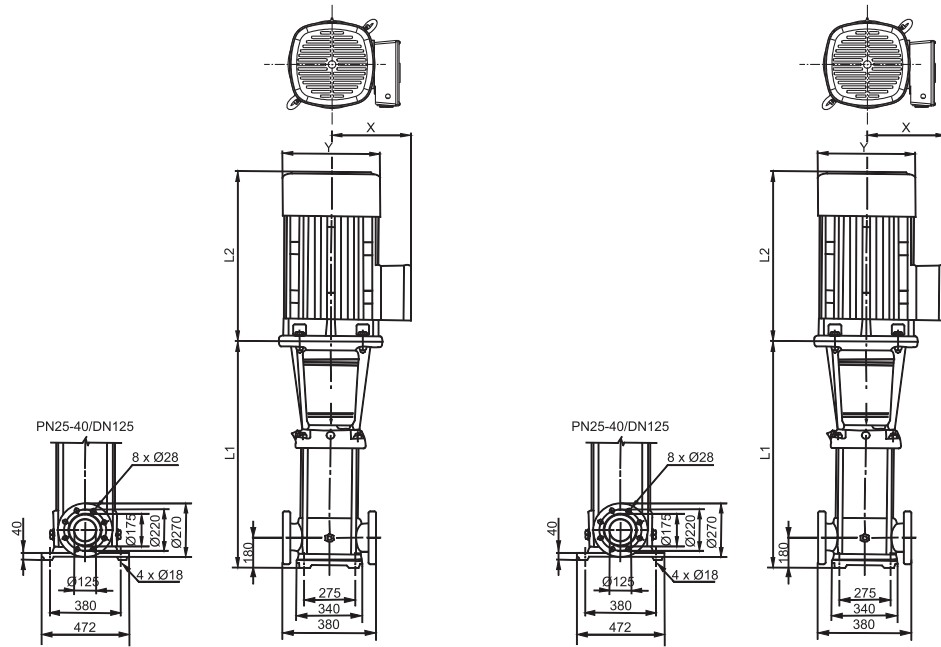
PUMP MODEL	MOTOR POWER		DISCHARGE							
			lps	0	5.56	11.12	16.68	22.24	27.80	30.58
	kW	HP	m ³ /h	0	20	40	60	80	100	110
MVS-90/01A	5.5	7.5	TOTAL MANOMETRIC HEAD IN METRES	27	26	23	20	17	12	7
MVS-90/01	7.5	10		30	29	26	23	21	15	12
MVS-90/02B	11	15		56	53	48	43	37	28	21
MVS-90/02	15	20		65	62	56	50	44	35	27
MVS-90/03B	18.5	25		85	80	75	68	59	46	34
MVS-90/03	22	30		97	92	86	77	67	55	43
MVS-90/04B	30	40		122	114	106	96	85	68	56
MVS-90/04	30	40		131	125	116	104	91	74	60
MVS-90/05B	37	50		152	144	136	122	108	88	75
MVS-90/05	37	50		162	156	146	132	116	96	81
MVS-90/06B	45	60		182	174	165	150	132	110	89
MVS-90/06	45	60		193	184	174	160	141	115	90

Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
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MV-120

MVC (ROUND FLANGE)

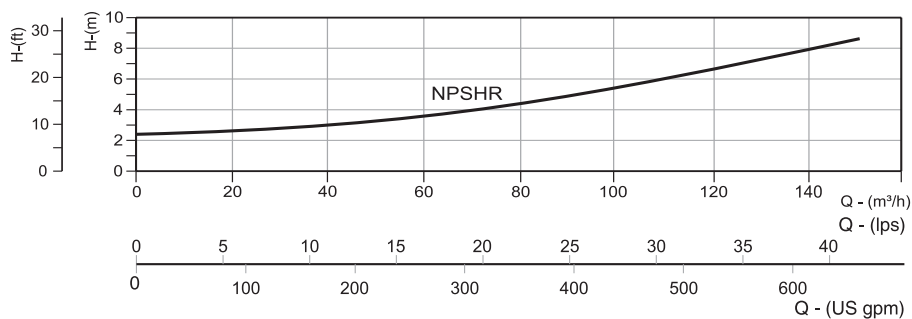
MVS & N (ROUND FLANGE)



DIMENSIONS & WEIGHT

PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)					APPROX NETT WEIGHT in kg	
	kW	HP	L1	L2		X			ØY
				1Ph	3Ph	1Ph	3Ph		
MVS-120/1	11	15	840	-	500	-	255	330	230
MVS-120/2B	15	20	1000	-	500	-	255	330	245
MVS-120/2A	18.5	25	1000	-	550	-	255	330	250
MVS-120/2	22	30	1000	-	575	-	285	360	285
MVS-120/3B	26	35	1160	-	575	-	285	360	326
MVS-120/3A	30	40	1160	-	650	-	310	400	360
MVS-120/3	30	40	1160	-	650	-	310	400	360
MVS-120/4B	37	50	1320	-	650	-	310	400	400
MVS-120/4A	37	50	1320	-	650	-	310	400	400
MVS-120/4	45	60	1320	-	685	-	340	460	460
MVS-120/5B	45	60	1480	-	685	-	340	460	470
MVS-120/5A	45	60	1480	-	685	-	340	460	470
MVS-120/5	55	75	1510	-	760	-	370	540	575
MVS-120/6B	55	75	1670	-	760	-	370	540	585
MVS-120/6A	55	75	1670	-	760	-	370	540	585
MVS-120/6	75	100	1830	-	845	-	410	580	705
MVS-120/7B	75	100	1830	-	845	-	410	580	715
MVS-120/7A	75	100	1830	-	845	-	410	580	715
MVS-120/7	75	100	1830	-	845	-	410	580	715

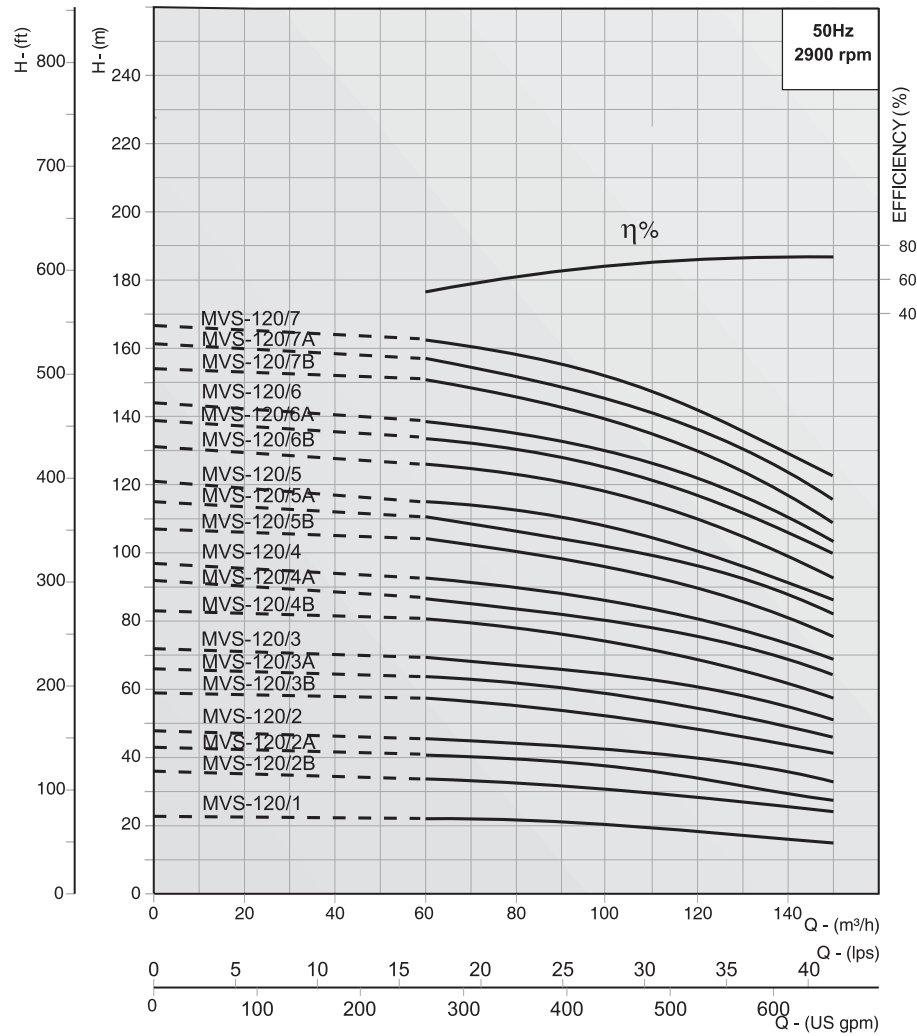
NPSHR CURVE



NOMINAL FLOW : 120m³/h

PERFORMANCE CURVES

MV-120



PERFORMANCE TABLE

PIPE SIZE : DN 125

PUMP MODEL	MOTOR POWER		DISCHARGE							
			lps	0	16.68	22.22	27.78	33.33	38.88	41.67
	kW	HP	m ³ /h	0	60	80	100	120	140	150
MVS-120/1	11	15	TOTAL MANOMETRIC HEAD IN METRES	23	22	21.6	20.5	18.5	16	16
MVS-120/2B	15	20		36	34	33	30.2	28.5	25	25
MVS-120/2A	18.5	25		43	41	39.5	37	34.5	30	30
MVS-120/2	22	30		48	46	44.5	42.4	40	36	36
MVS-120/3B	26	35		59	57	55	52	49	43.5	43.5
MVS-120/3A	30	40		66	64	62	58.5	55.5	49	49
MVS-120/3	30	40		72	69.5	67.5	64.4	61	54.5	54.5
MVS-120/4B	37	50		83	80.5	78	73.5	69	61.5	61.5
MVS-120/4A	37	50		92	87	84.5	80	76	68	68
MVS-120/4	45	60		97	92.5	90	85.5	81	73	73
MVS-120/5B	45	60		107	104.5	101	96	90	80.5	80.5
MVS-120/5A	45	60		115	110.5	107.5	102	97	86.5	86.5
MVS-120/5	55	75		121	115.5	113	107.5	101.5	91	91
MVS-120/6B	55	75		131	128	123	117.3	110	98.5	98.5
MVS-120/6A	55	75		139	134	130.5	124	118	105	105
MVS-120/6	75	100		144	139	135	128.5	123	110	110
MVS-120/7B	75	100		154	151	145.5	138.6	130	116.5	116.5
MVS-120/7A	75	100	161	156.5	152	144.5	137.5	123	123	
MVS-120/7	75	100	167	162.5	158.5	151	145	129	129	

Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.

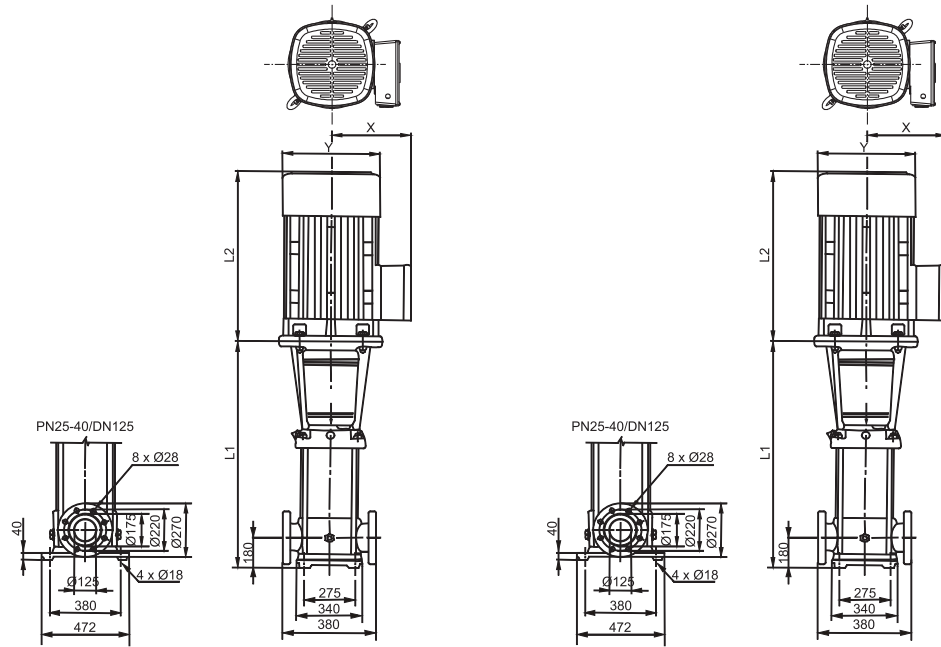
The given performance is same for Type - C, S & N

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MV-150

MVC (ROUND FLANGE)

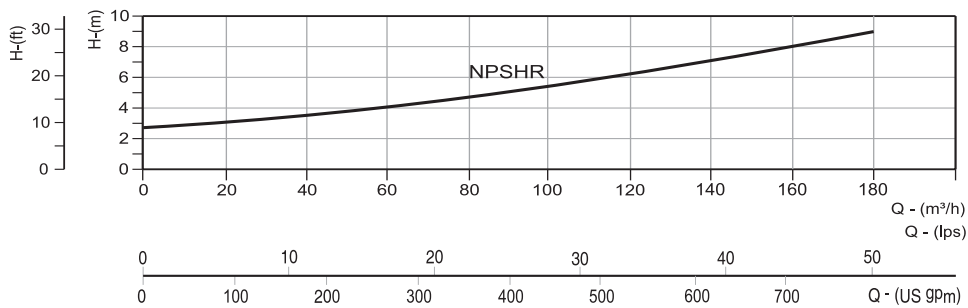
MVS & N (ROUND FLANGE)



DIMENSIONS & WEIGHT

PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)					APPROX NETT WEIGHT in kg	
	kW	HP	L1	L2		X			ØY
				1Ph	3Ph	1Ph	3Ph		
MVS-150/1A	11	15	840	-	500	-	255	330	230
MVS-150/1	15	20	840	-	500	-	255	330	235
MVS-150/2B	18.5	25	1000	-	550	-	255	330	250
MVS-150/2A	22	30	1000	-	575	-	285	360	295
MVS-150/2	26	35	1000	-	575	-	285	360	317
MVS-150/3B	30	40	1160	-	650	-	310	400	360
MVS-150/3A	37	50	1160	-	650	-	310	400	360
MVS-150/3	37	50	1160	-	650	-	310	400	385
MVS-150/4B	45	60	1320	-	685	-	340	460	460
MVS-150/4A	45	60	1320	-	685	-	340	460	460
MVS-150/4	55	75	1350	-	760	-	370	540	560
MVS-150/5B	55	75	1510	-	760	-	370	540	570
MVS-150/5A	75	100	1510	-	845	-	410	580	690
MVS-150/5	75	100	1510	-	845	-	410	580	690
MVS-150/6B	75	100	1670	-	845	-	410	580	700
MVS-150/6A	75	100	1670	-	845	-	410	580	700
MVS-150/6	75	100	1670	-	845	-	410	580	700

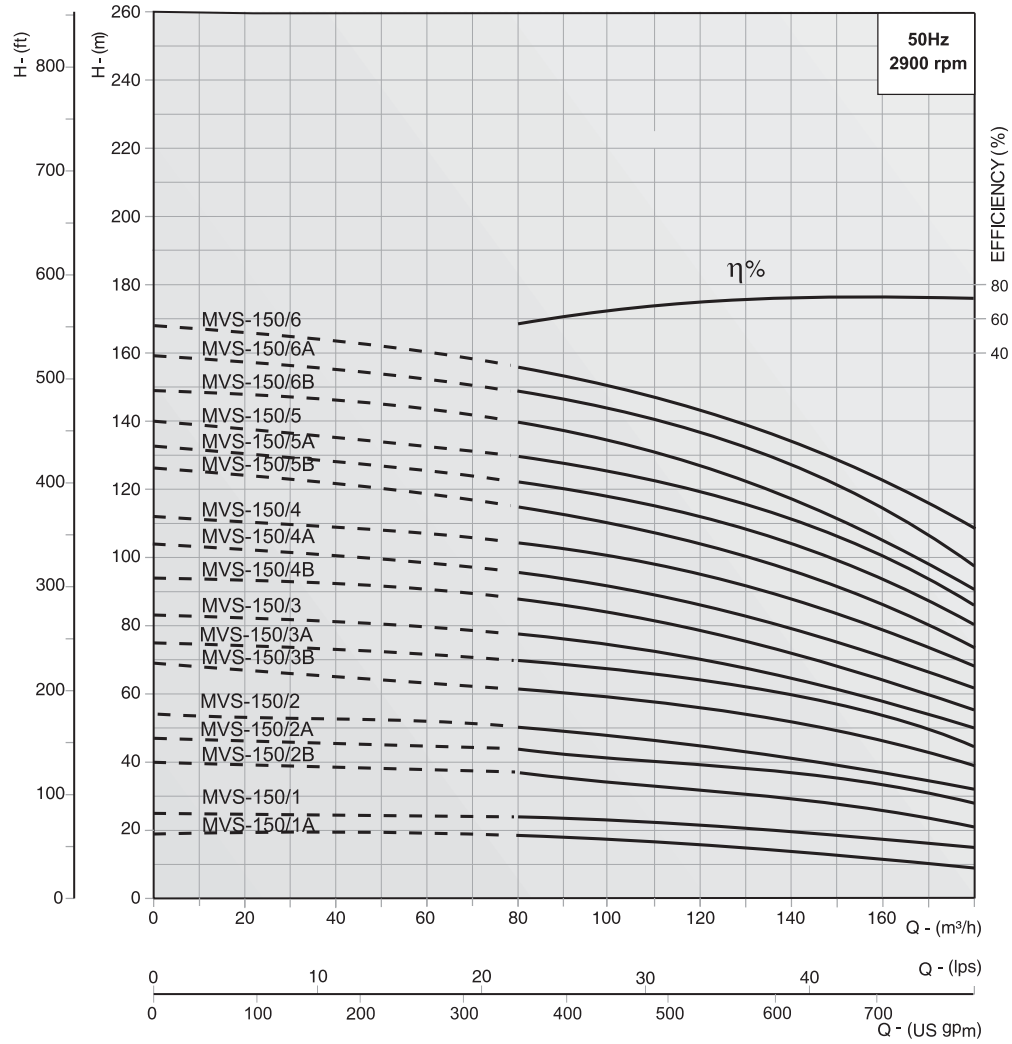
NPSHR CURVE



NOMINAL FLOW : 150m³/h

PERFORMANCE CURVES

MV-150



PERFORMANCE TABLE

PIPE SIZE : DN 125

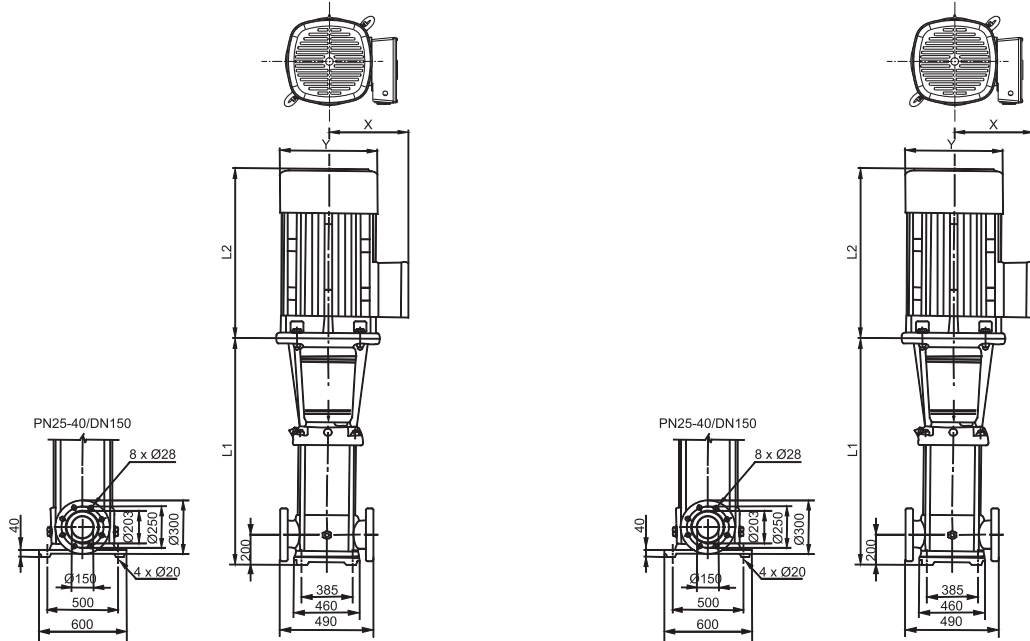
PUMP MODEL	MOTOR POWER		DISCHARGE							
			lps	0	22.24	27.80	33.33	38.33	44.44	50.00
	kW	HP	m ³ /h	0	80	100	120	140	160	180
MVS-150/1A	11	15	TOTAL MANOMETRIC HEAD IN METRES	19.6	18.3	17.3	16	14	11	8.5
MVS-150/1	15	20		25	24	22.5	21.5	20	17	15
MVS-150/2B	18.5	25		30	37	34	32	29	26	21
MVS-150/2A	22	30		40	44.3	42	39	37.5	33	27
MVS-150/2	26	35		47	50	48	45.5	42	37	32
MVS-150/3B	30	40		54.7	62	59	56	53	45.5	39
MVS-150/3A	37	50		75	70	67	63	60	53	45
MVS-150/3	37	50		83	78	75	70.5	66	59	50.5
MVS-150/4B	45	60		94	89	84	79	73	65.5	56
MVS-150/4A	45	60		104	96.5	91.5	86.5	81.5	72.5	62
MVS-150/4	55	75		113	104	100	95	88	79.5	68
MVS-150/5B	55	75		126	115.5	109	102.5	97	86	73.5
MVS-150/5A	75	100		133	122.5	117	111.5	104.5	93.5	80
MVS-150/5	75	100		140	130	125	119	111.5	101	86.5
MVS-150/6B	75	100		147	140	133	126	118	106	91
MVS-150/6A	75	100		158.6	148.5	141.7	135	127	114.5	97.5
MVS-150/6	75	100	168	157	149	142	137	123.5	109	

Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
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MV-200

MVC (ROUND FLANGE)

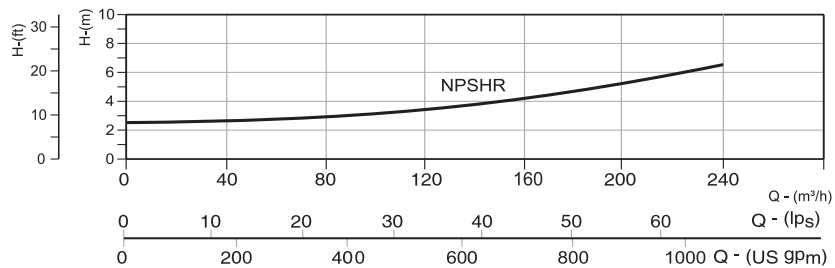
MVS & N (ROUND FLANGE)



DIMENSIONS & WEIGHT

PUMP MODEL	MOTOR POWER		DIMENSIONS IN mm (APPROX)					APPROX NETT WEIGHT in kg	
	kW	HP	L1	L2		X			ØY
				1Ph	3Ph	1Ph	3Ph		
MVS-200/1R	18.5	25	907	-	550	-	330	255	311
MVS-200/1A	22	30	907	-	575	-	360	285	347
MVS-200/1	30	40	907	-	650	-	400	310	403
MVS-200/2P	37	50	1101	-	650	-	400	310	447
MVS-200/2B	45	60	1101	-	685	-	460	340	504
MVS-200/2A	55	75	1131	-	760	-	540	370	595
MVS-200/2	55	75	1131	-	760	-	540	370	595
MVS-200/3P	75	100	1325	-	845	-	580	410	748
MVS-200/3AR	75	100	1325	-	845	-	580	410	748
MVS-200/3B	75	100	1325	-	845	-	580	410	748
MVS-200/3R	75	100	1325	-	845	-	580	410	748
MVS-200/3A	75	100	1325	-	845	-	580	410	748
MVS-200/3	90	120	1325	-	895	-	580	410	817
MVS-200/4P	90	120	1519	-	895	-	580	410	830
MVS-200/4B	110	150	1519	-	1140	-	645	550	1180
MVS-200/4A	110	150	1519	-	1140	-	645	550	1180
MVS-200/4	110	150	1519	-	1140	-	645	550	1180

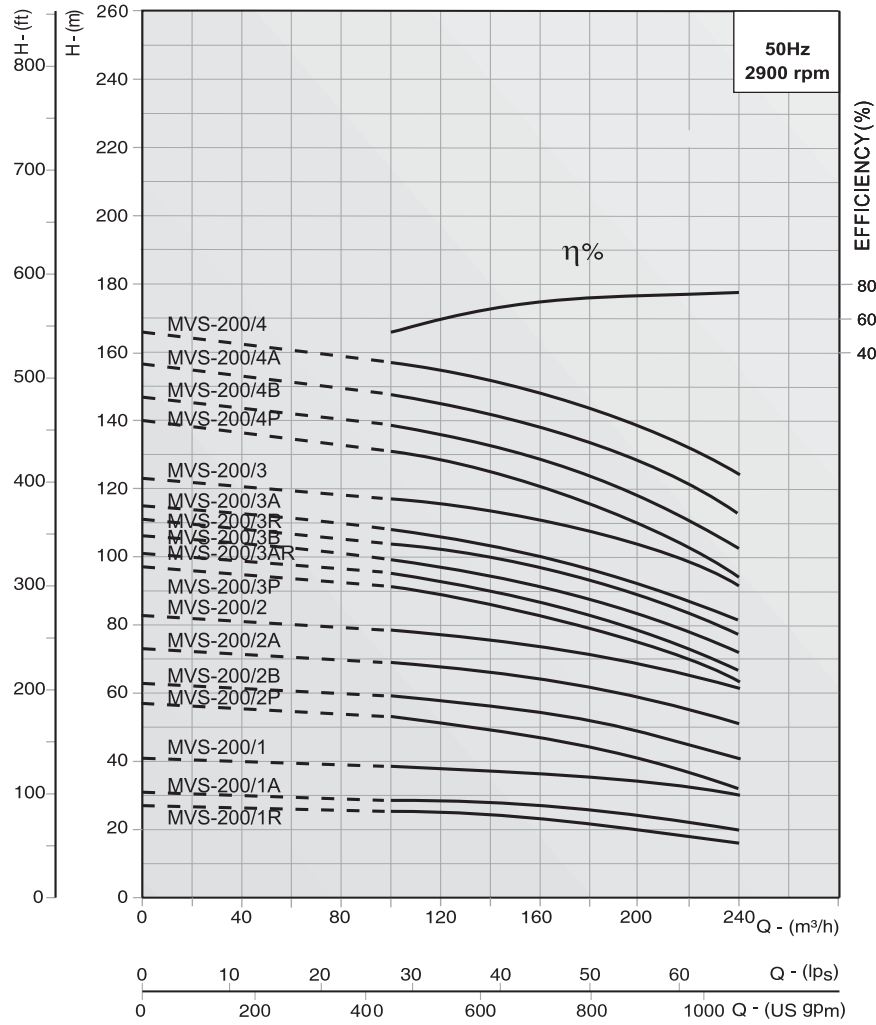
NPSHR CURVE



NOMINAL FLOW : 200m³/h

PERFORMANCE CURVES

MV-200



PERFORMANCE TABLE

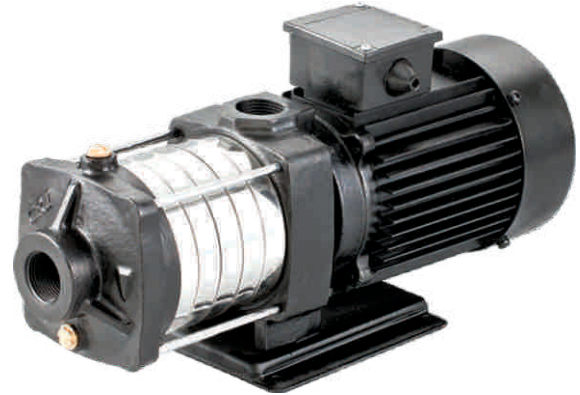
PIPE SIZE : DN 150

PUMP MODEL	MOTOR POWER		DISCHARGE									
			lps	0	27.77	33.33	38.88	44.44	50.00	55.55	61.11	66.66
	kW	HP	m ³ /h	0	100	120	140	160	180	200	220	240
MVS-200/1R	18.5	25	TOTAL MANOMETRIC HEAD IN METRES	27	25.5	25	24	23	21.5	20	18	15.5
MVS-200/1A	22	30		31	29	28.5	27.5	26.5	25.5	24	22	20
MVS-200/1	30	40		41	38.5	38	37.5	36.5	35	34	32.5	30
MVS-200/2P	37	50		57	53	51	49	47	44	41	37	32
MVS-200/2B	45	60		63	59.5	58	56	54	52.5	49	44.5	40.5
MVS-200/2A	55	75		73	69	68	66	64	62	59	55.5	51
MVS-200/2	55	75		83	78.5	77.5	76	74	71.5	69	66	61.5
MVS-200/3P	75	100		97	91.5	89	86.5	83.5	79	75	70	63
MVS-200/3AR	75	100		101	95	93	90	87	83.5	79	73.5	67
MVS-200/3B	75	100		107	99.5	97.5	94.5	91.5	89	84	78.5	72
MVS-200/3R	75	100		111	104.5	102.5	100	97	93	89	84.5	77.5
MVS-200/3A	75	100		114	108	106	103.5	100.5	97.5	93	88	81.5
MVS-200/3	90	120		123	117.5	116	113.5	111	107	103	99	92
MVS-200/4P	90	120		140	131.5	129	125.5	111.5	115.5	110	103.5	94
MVS-200/4B	110	150		147	138.5	136	132	118	124	118	111	102.5
MVS-200/4A	110	150		157	148	145.5	142.5	127	134	128	122	113
MVS-200/4	110	150	166	157.5	155.5	152.5	137	143.5	138	132.5	123.5	

Replace the 3rd digit in model name as "C" for Cast Iron pump base & pump head models and "N" for SS 316 construction.
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MH Series

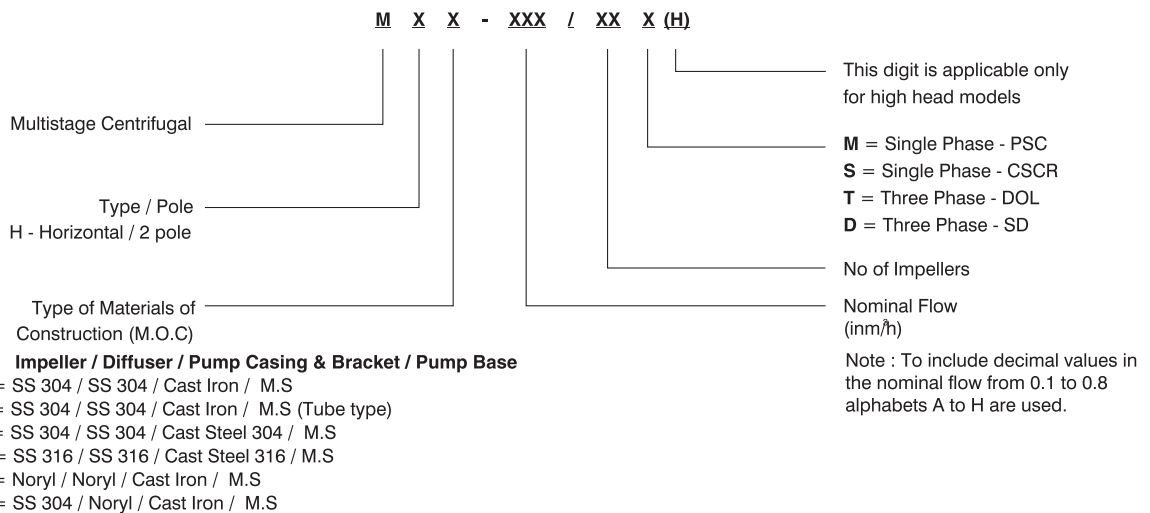
The CRI horizontal multistage centrifugal pumps are non-self-priming, axial suction and vertical radial discharge ports. The suction and discharge of the pump is supplied with threaded ports for connecting the pipes easily. This multi stage horizontal booster pump is specially to meet pressure boosting needs. Corrosion resistance stainless steel is used for most wetted parts in these pumps to ensure hygiene. These pumps are mono block type and supplied with TEFC energy efficient electric motors for trouble free long running hours. The dynamically balanced rotor ensures noise and vibration free operations. All single phase motors are supplied with inbuilt thermal protection to safeguard the winding while overload and extreme operating condition. The highly reliable mechanical seal and 'O' ring will ensure leak free operations in high pressure applications like pressure boosting, car washing and industrial washing etc.



Applications : | Residential and small industrial pressure boosting system | Residential lawn sprinkler | High pressure pumping in small RO systems | Small Utility water supply in industries | Industrial washing | Hygiene water transfer in food industries | Gardening

Features : | Superior efficiency and performances | Impellers and diffusers are made of stainless steel | Easy maintenance | Supplied with high efficient IE2 motors in 3 Phase versions | Inbuilt thermal overload protector

MODEL IDENTIFICATION CODE



TECHNICAL DATA

Power Range : 0.22 to 2.2kW
 Speed : 2900 rpm
 Degree of protection : IP 54
 Insulation class : B (Optional F)
 Versions : Single Phase 220 / 240V,
 50Hz, A.C. Supply (Permanent Split Capacitor-PSC)
 Incorporated with thermal protector.
 Three Phase 380 / 415V
 Sealing : Mechanical seal
 Direction of rotation : Counter clockwise viewed from driving end
 Type of Duty : S1 (continuous)
 Nom. Suc. x Del. Size : 1" x 1" ; 1½" x 1¼", 1½" x 1½"

MATERIALS OF CONSTRUCTION	
Pump Casing & Bracket	S.S. 304 / Cast Iron
Impeller	S.S. 304
Diffuser	S.S. 304
Motor Frame	Aluminum
Shaft	S.S. 410
Sealing	Mechanical Seal Standard : Sic Sic HNBR Optional : Sic Sic EPDM
Base Plate	Mild Steel

CHARACTERISTICS OF PUMPED LIQUIDS	
a) Temperature	90°C (max.)
b) Permissible amount of sand	25 gm / m ³ (max.)
c) Chlorine ion density	500 ppm (max.)
d) Allowable solids	3000 ppm (max.)
e) Specific gravity	1.004 (max.)
f) Hardness (Drinking water)	300 (max.)
g) Viscosity	1.75 x 10 ⁻⁶ m ² / Sec. (max.)
h) Turbidity	50 ppm silica scale (max.)
i) pH	6.5 to 8.5

OPERATING LIMITS

Maximum Liquid Temperature : 90 °C
 Maximum Ambient Temperature : 40 °C
 Maximum Operating Pressure : 0.55 Mpa (5.5 bar)

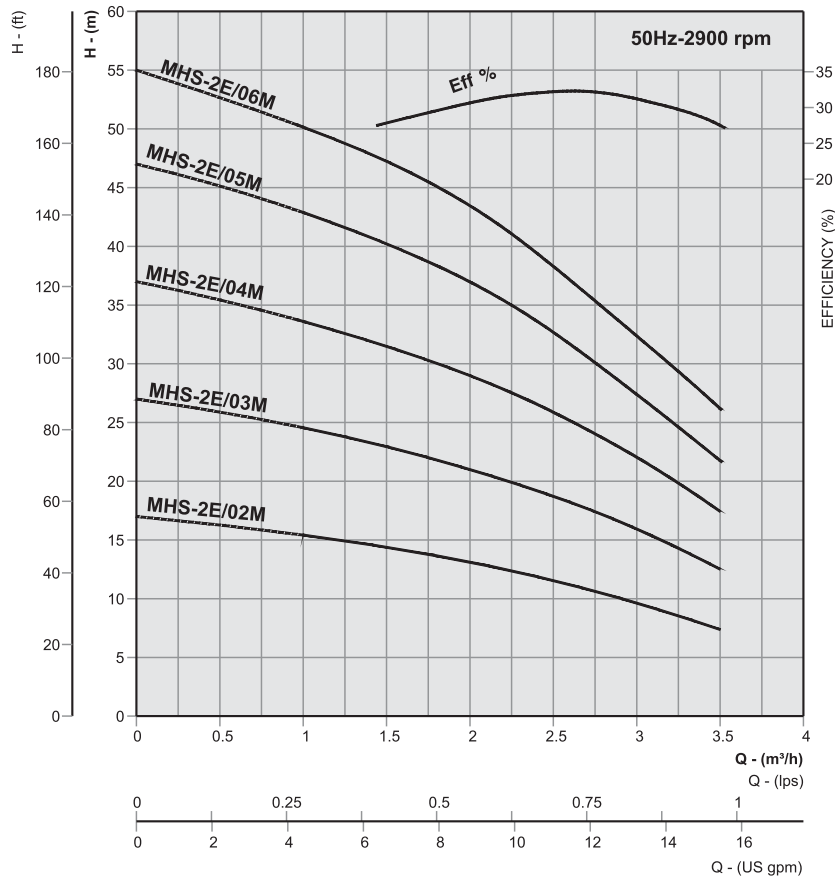
Max. Operating Pressure	1 mpa (10bar)	0.6 mpa (6bar)
MH-2E & 5	0°C to 40°C	41°C to 90°C
MH-8 & 12	0°C to 55°C	56°C to 90°C

PERFORMANCE CURVE CONDITIONS

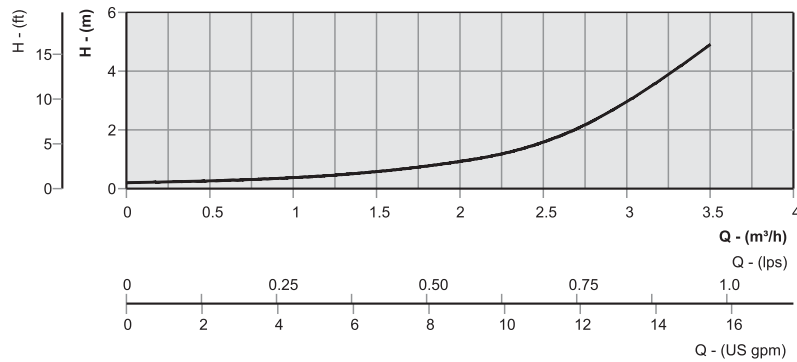
- The conditions below apply to the curves shown on the following pages.
- Curve tolerance are according to ISO 9906, Grade 2B.
- The performance are taken at rated voltage & speed that are only indicative.
- Actual discharge depends on availability of water in well / tank, height of water column from the suction pipe end .
- The measurements were made with airless water at 20 °C. When pumping liquids with a density higher than of water, motors with correspondingly higher outputs must be used.
- The bold curves indicate the recommended performance range .
- Pipe friction losses have not been included in the performance curves & performance tables .

PERFORMANCE CURVES & TABLES

MHS - 2.5



NPSH CURVE



MHS : 2.5

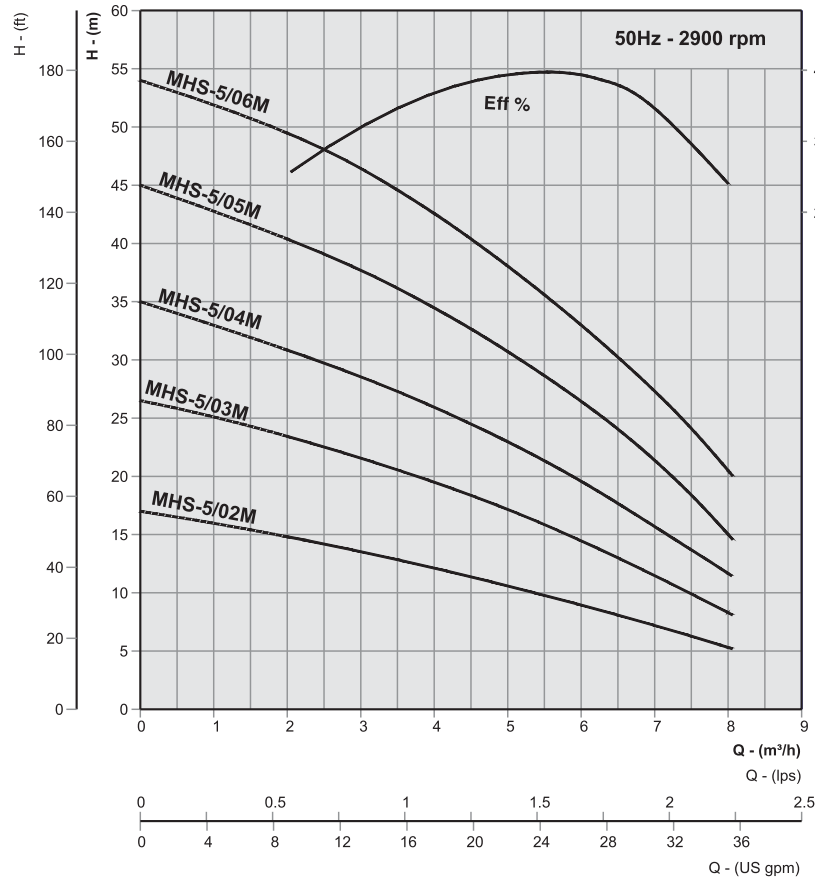
NOMINAL FLOW : 2.5 m³/h

NOMINAL PUMP SIZE : 1" x 1"

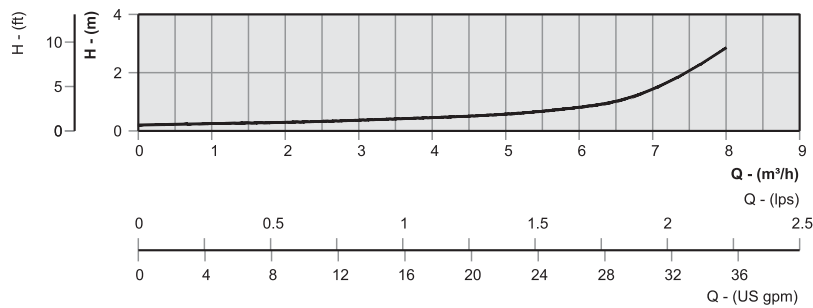
Model	Input Power P1		Output Power P2		l/s	0	0.27	0.41	0.55	0.69	0.83	0.97
	HP	kW	HP	kW								
MHS-2E/02M	0.53	0.4	0.3	0.22	Head in meters	0	1	1.5	2	2.5	3	3.5
MHS-2E/03M	0.61	0.46	0.4	0.3		17	16	14	13	12	9	7.5
MHS-2E/04M	0.8	0.6	0.5	0.37		27	24	23	21	18.5	16	12.5
MHS-2E/05M	0.93	0.7	0.6	0.45		37	33	32	29	26	22	17.5
MHS-2E/06M	1.23	0.92	0.75	0.55		47	43	40	37	33	27.5	22
						55	50	47.5	43.5	38.5	32.5	26.5

PERFORMANCE CURVES & TABLES

MHS - 5



NPSH CURVE



MHS : 5

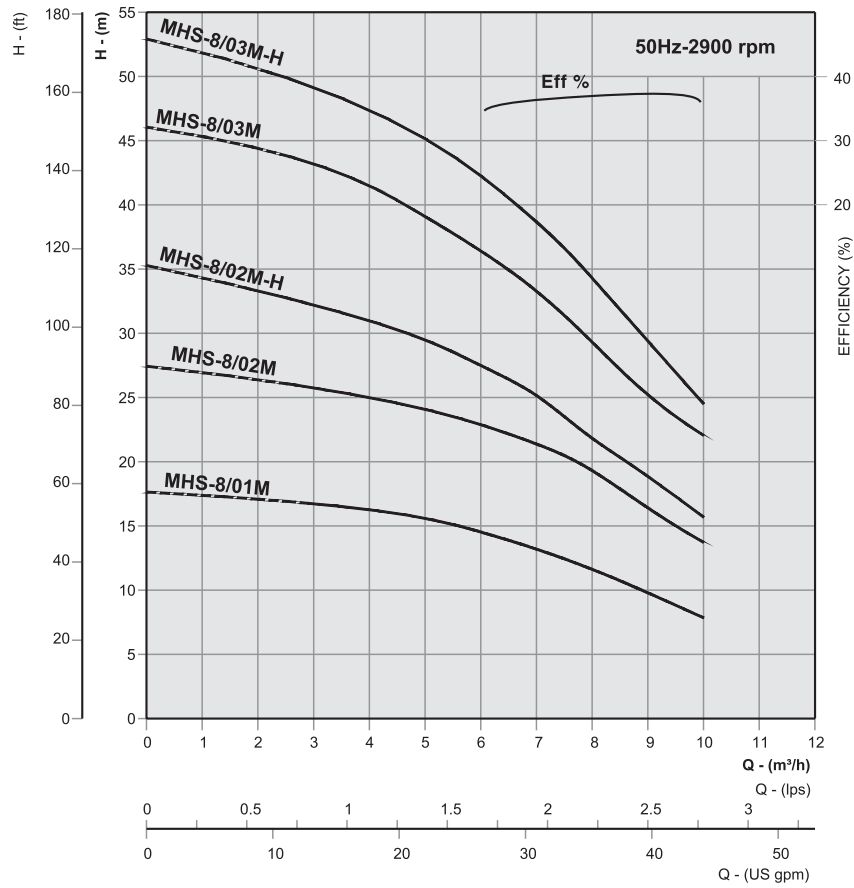
NOMINAL FLOW : 5 m³/h

NOMINAL PUMP SIZE : 1" x 1"

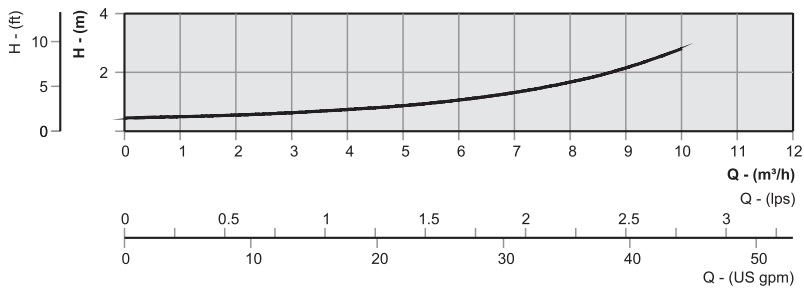
Model	Input Power P1		Output Power P2		l/s	0	0.55	0.83	1.11	1.38	1.66	1.94	2.22
	HP	kW	HP	kW									
MHS-5/02M	0.71	0.53	0.4	0.3	Head in meters	0	2	3	4	5	6	7	8
MHS-5/03M	1	0.75	0.5	0.37		17	15	13.5	12.5	11	8	7	5
MHS-5/04M	1.23	0.92	0.75	0.55		26.5	23	22	19.5	17	13	12	8
MHS-5/05M	1.6	1.2	1	0.75		35	31	28.5	26	23	18	16	12
MHS-5/06M	1.82	1.36	1.5	1.1		45	40	38	34	31	24	22	15
						54	49.5	47	43	38	30	22	20

PERFORMANCE CURVES & TABLES

MHS - 8



NPSH CURVE



MHS : 8

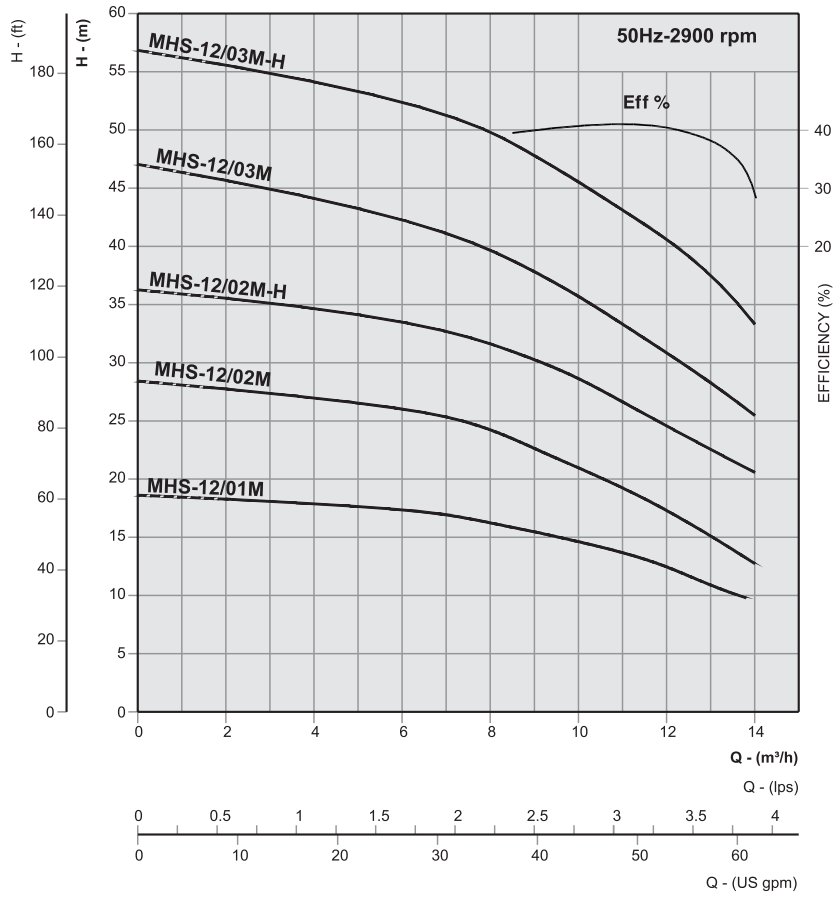
NOMINAL FLOW : 8 m³/h

NOMINAL PUMP SIZE : 1½" X 1¼"

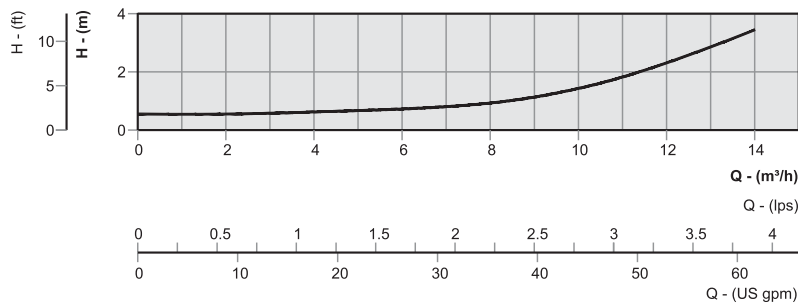
Model	Input Power P1		Output Power P2		l/s	0	0.83	1.11	1.38	1.66	1.94	2.22	2.5	2.77
	HP	kW	HP	kW										
MHS-8/01M	1	0.75	0.5	0.37	Head in meters	0	3	4	5	6	7	8	9	10
MHS-8/02M	1.7	1.3	1	0.75		17.5	17	16.5	16	14	13	12	10	8
MHS-8/02M-H	2	1.5	1.25	0.93		27.5	26	26	24	23	22	19	17	13.5
MHS-8/03M	2.4	1.8	1.5	1.1		35	32	31	29	27.5	25	22	18.5	16
MHS-8/03M-H	3	2.2	2	1.5		46	43	42	39	37	33	29	25	22.5
						53	49	47.5	45	42.5	33.5	34	29	24.5

PERFORMANCE CURVES & TABLES

MHS - 12



NPSH CURVE



MHS : 12

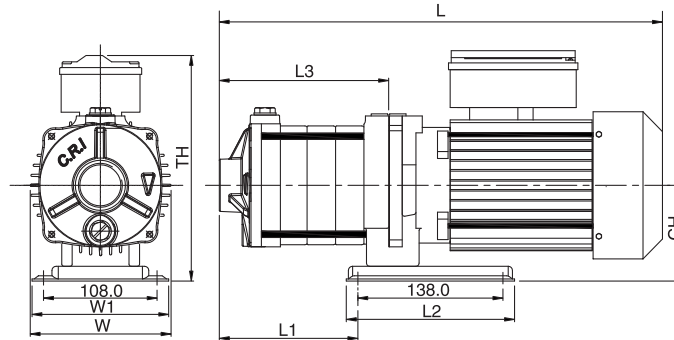
NOMINAL FLOW : 12 m³/h

NOMINAL PUMP SIZE : 1½" X 1½"

Model	Input Power P1		Output Power P2		l/s	0	0.55	1.11	1.66	2.22	2.77	3.38	3.88
	HP	kW	HP	kW		m³/h	0	2	4	6	8	10	12
MHS-12/01M	1.5	1.1	0.75	0.55	Head in meters	18.5	18.2	18	17.5	16.5	14.5	12.5	10 (13.8)
MHS-12/02M	2.1	1.6	1	0.75		28.5	17.5	27	26	24	21	17.5	13
MHS-12/02M-H	3	2.2	1.5	1.1		36	35.5	34.5	33.5	32	28.5	24.5	21
MHS-12/03M	3.5	2.6	2	1.5		47	46	44	42.5	44.5	36	31	26
MHS-12/03M-H	4.4	3.3	3	2.2		57	56	54	52.5	50	46	41	33.5

DIMENSIONAL DRAWING & DATA

MHS - 2.5 & 5

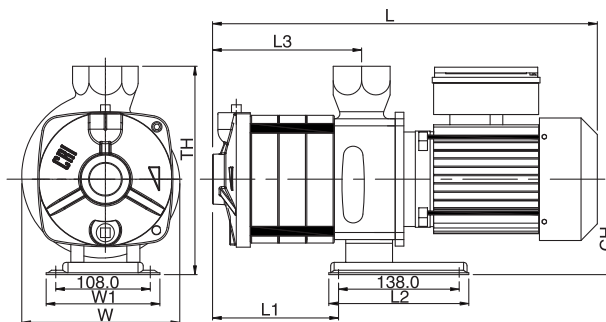


DIMENSIONAL & WEIGHT

Model	L		L1	L2	L3	W	W1	TH	CH	Approx. Weight in kg
	1Ph	3Ph								
MHS-2E/02M	320	320	70	160	99	134	130	215	90	12
MHS-2E/03M	338	343	89	160	118	134	130	215	90	13
MHS-2E/04M	362	362	108	160	137	134	130	215	90	14
MHS-2E/05M	390	400	127	160	156	134	130	215	90	15
MHS-2E/06M	409	419	146	160	175	134	130	215	90	16

Model	L		L1	L2	L3	W	W1	TH	CH	Approx. Weight in kg
	1Ph	3Ph								
MHS-5/02M	329	333	79	160	108	134	130	215	90	12
MHS-5/03M	371	381	107	160	135	134	130	215	90	14
MHS-5/04M	414	424	135	160	162	134	130	215	90	15
MHS-5/05M	461	471	163	160	190	134	130	215	90	18
MHS-5/06M	514	514	191	160	217	134	130	215	90	20

MHS - 8 & 12



DIMENSIONAL & WEIGHT

Model	L		L1	L2	L3	W	W1	TH	CH	Approx. Weight in kg
	1Ph	3Ph								
MHS-8/01M	339	339	52	160	72	181	130	238	109	16
MHS-8/02M	399	399	82	160	102.5	181	130	238	109	20
MHS-8/02M-H	414	414	82	160	102.5	181	130	238	109	20.5
MHS-8/03M	467	467	114	160	133	181	130	238	109	25
MHS-8/03M-H	460	460	114	160	133	181	130	238	109	28.5

Model	L		L1	L2	L3	W	W1	TH	CH	Approx. Weight in kg
	1Ph	3Ph								
MHS-12/01M	349	349	52	160	72	181	130	238	109	18
MHS-12/02M	414	414	82	160	102.5	181	130	238	109	20.5
MHS-12/02M-H	430	430	82	160	102.5	181	130	238	109	28.5
MHS-12/03M	476	476	114	160	133	181	130	238	109	30.5
MHS-12/03M-H	496	496	114	160	133	181	130	238	109	34

* All Dimensions are in mm.



MH Series - Type B

The CRI horizontal multistage centrifugal pumps are self-priming, axial suction and vertical radial discharge ports. The suction and discharge of the pump is supplied with threaded ports for connecting the pipes easily. This multi stage horizontal booster pump is specially to meet pressure boosting needs. These pumps are monoblock type and supplied with TEFC energy efficient electric motors for trouble free long running hours. The dynamically balanced rotor ensures noise and vibration free operations. All single phase motors are supplied with inbuilt thermal protection to safeguard the winding while overload and extreme operating condition. The highly reliable mechanical seal and 'O' ring will ensure leak free operations in high pressure applications like pressure boosting, car washing and industrial washing etc.

TECHNICAL DATA

Power range	: 0.25 kW to 2.2 kW
Speed	: 2900rpm
Version	: Single Phase 230V, 50Hz A.C Supply (0.25-1.8kW), Three Phase 380V, 50Hz A.C Supply (0.25-2.2kW).
Degree of protection	: IP 55
Insulation class	: F
Type of duty	: S1 (Continuous)
Number of pole	: 2 poles
Nominal Suc. x Del. size	: 1" x 1", 1¼" x 1¼"

Applications : Residential & Industrial Pressure Boosting | Small farms |

Washing systems | Industrial water supply | HVAC | Reverse Osmosis

systems | Food processing industries | Golf course.

MATERIALS OF CONSTRUCTION

Impeller	SS 304
Shaft	SS 420
Diffuser	Noryl
Pump body	SS 304
Pump bracket	Cast iron/Casted S.S
Motor frame	Aluminium
Mechanical seal	Carbon and ceramic

OPERATING LIMITS

Maximum Liquid Temperature : 90 °C

Maximum Ambient Temperature : 40 °C

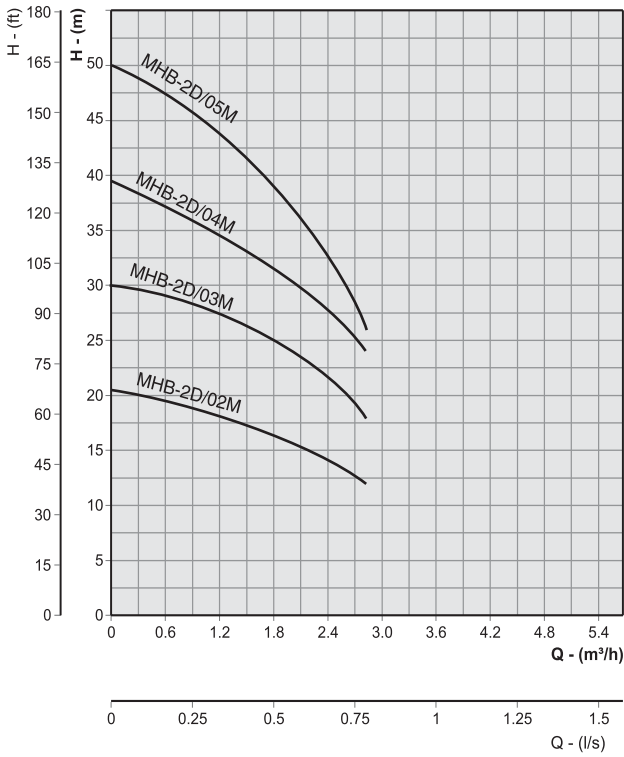
Maximum Operating Pressure : 0.55 Mpa (5.5 bar)

Note : Appropriate size of foot-valve to be adopted in suction pipe for better suction lift.

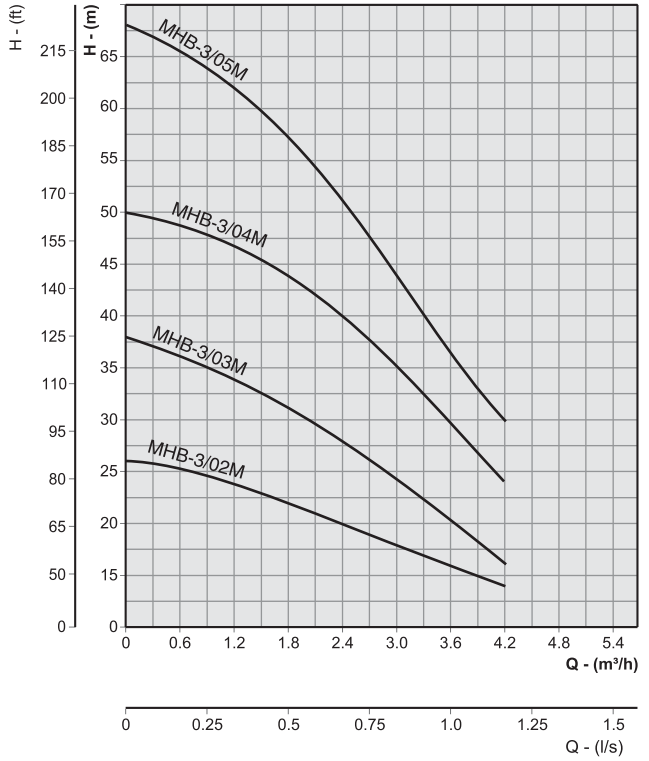
* In view of continuous development, the information / descriptions / specifications / illustrations are subject to change without notice.

PERFORMANCE CURVES & TABLES

MHB - 2.4



MHB - 3



MHB - 2.4

NOMINAL FLOW : 2.4 m³/h

NOMINAL PUMP SIZE : 1" X 1"

Model	Motor Power - P2		AMPS 1Ph - 230V	l/s m ³ /h	0	0.17	0.33	0.5	0.67	0.78
	HP	kW			0	0.6	1.2	1.8	2.4	2.82
MHB-2D/02M	0.33	0.25	2	Head in metres	20.5	19.5	18	16.5	14.1	12.2
MHB-2D/03M	0.5	0.37	2.75		30	29	27.5	25	21.5	18
MHB-2D/04M	0.75	0.55	3.53		39.5	37	34.6	31.5	27.7	24
MHB-2D/05M	1.0	0.75	4.13		50	47.5	44	39	32.2	26

MHB - 3*

NOMINAL FLOW : 3 m³/h

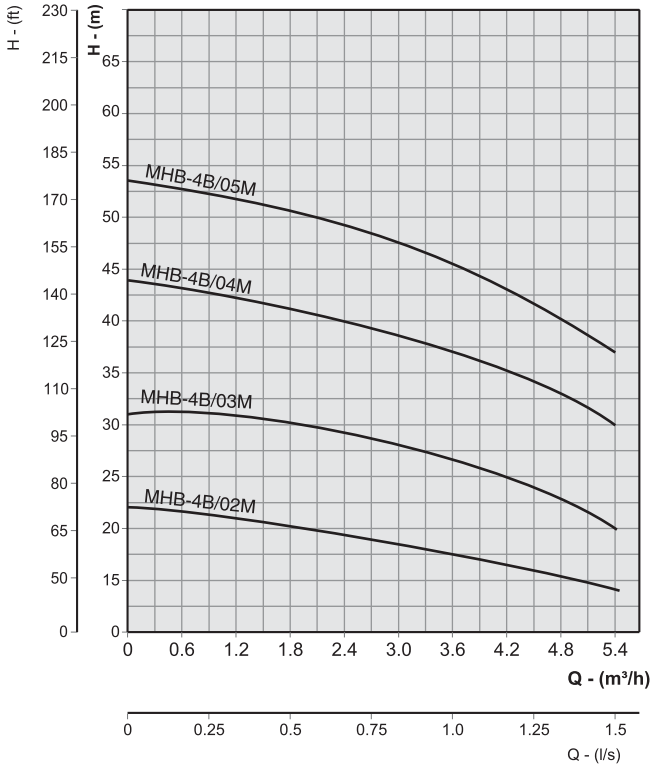
NOMINAL PUMP SIZE : 1¼" X 1¼"

Model	Motor Power - P2		AMPS 1Ph - 230V	l/s m ³ /h	0	0.17	0.33	0.5	0.67	0.83	1.0	1.17
	HP	kW			0	0.6	1.2	1.8	2.4	3	3.6	4.2
MHB-3/02M	0.5	0.37	2.9	Head in metres	26	25.5	24	22	20	18	15.5	14
MHB-3/03M	0.75	0.55	3.6		38	36	34	31	28	24.5	20	16
MHB-3/04M	1.0	0.75	5		50	48.5	47	44	40	34.5	28.5	24
MHB-3/05M	1.2	0.9	6.4		68	65.5	62	57	51.5	44	36	30

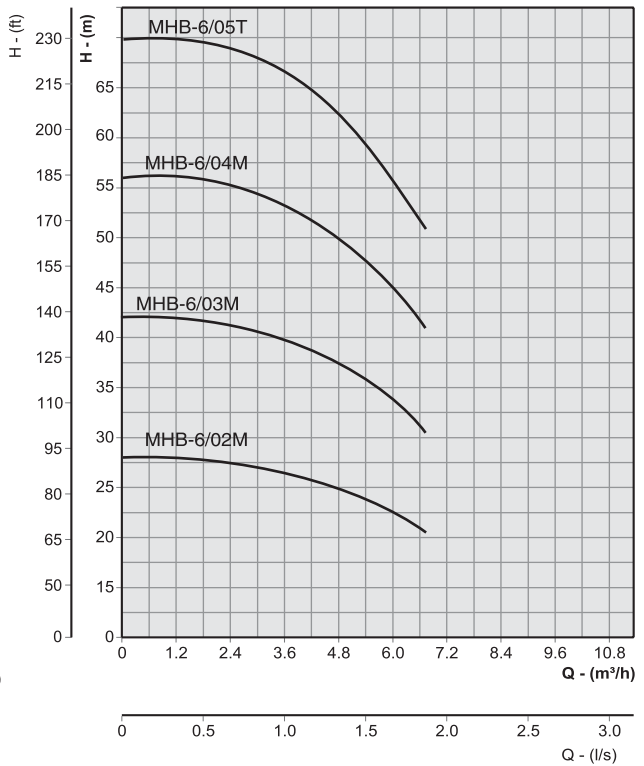
* Non-selfpriming design.

PERFORMANCE CURVES & TABLES

MHB - 4.2



MHB - 6



MHB - 4.2

NOMINAL FLOW : 4.2 m³/h

NOMINAL PUMP SIZE : 1" X 1"

Model	Motor Power - P2		AMPS 1Ph - 230V	l/s m ³ /h	0	0.33	0.67	1.0	1.33	1.52
	HP	kW			0	1.2	2.4	3.6	4.8	5.46
MHB-4B/02M	0.75	0.55	3.6	Head in metres	22	21	19.5	17.5	15	14
MHB-4B/03M	1	0.75	5		31	31	29	26.5	23	20
MHB-4B/04M	1.2	0.92	6.4		44	42	40	37	33	30
MHB-4B/05M	1.5	1.1	7.4		53.5	52	49.5	45.5	40	37

MHB - 6

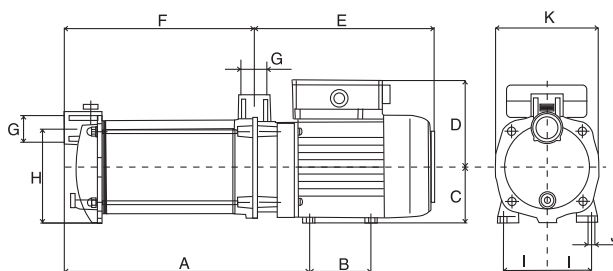
NOMINAL FLOW : 6 m³/h

NOMINAL PUMP SIZE : 1¼" X 1¼"

Model	Motor Power - P2		AMPS		l/s m ³ /h	0	0.33	0.67	1.0	1.33	1.67	1.9
	HP	kW	1Ph-230V	3Ph-230V		0	1.2	2.4	3.6	4.8	6	6.84
MHB-6/02M	1.5	1.1	6.3	-	Head in metres	28	28	27.5	26.5	25	22.5	20.5
MHB-6/03M	2	1.5	8	-		42	42	41.5	40	37.5	34	30.5
MHB-6/04M	2.5	1.8	10.1	-		56	56	55.5	53	50	45	41
MHB-6/05T	3	2.2	-	4.8		70	70	69	66	62	56	51

* In view of continuous development, the information / descriptions / specifications / illustrations are subject to change without notice.

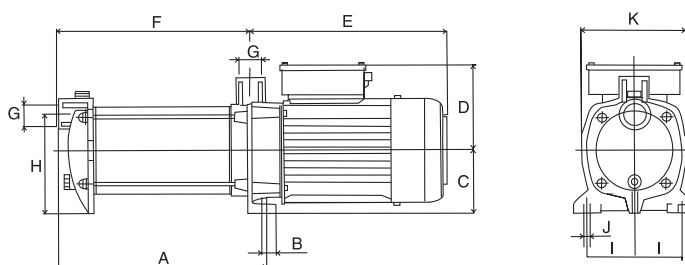
DIMENSIONAL DRAWING & DATA



Model	A	B	C	D	E	F	G	H	I	J	K	kg
MHB-2D/02M	228	74	63	102	247	166	1"	112	50	10	130	8.2
MHB-2D/03M	252	74	63	102	247	190	1"	112	50	10	130	9.0
MHB-2D/04M	276	74	63	102	247	214	1"	112	50	10	130	9.8
MHB-2D/05M	300	74	63	102	247	238	1"	112	50	10	130	10.6

Model	A	B	C	D	E	F	G	H	I	J	K	kg
MHB-3/02M	198	82	71	115	235	142	1 1/4"	130	59	8	140	12
MHB-3/03M	219	82	71	115	235	163	1 1/4"	130	59	8	140	12.6
MHB-3/04M	240	82	71	115	235	184	1 1/4"	130	59	8	140	14
MHB-3/05M	261	82	71	115	235	205	1 1/4"	130	59	8	140	17

Model	A	B	C	D	E	F	G	H	I	J	K	kg
MHB-4B/02M	226	82	71	115	230	175.5	1"	130	59	8	140	12
MHB-4B/03M	252	82	71	115	230	202	1"	130	59	8	140	12.6
MHB-4B/04M	279	82	71	115	230	228.5	1"	130	59	8	140	14
MHB-4B/05M	328	82	71	126	251	276	1"	130	59	8	140	17

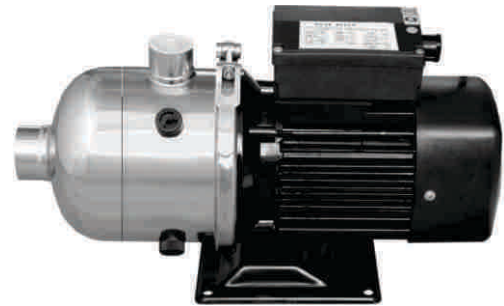


Model	A	B	C	D	E	F	G	H	I	J	K	kg
MHB-6/02M	237	18	90	105	275	207	1 1/4"	145	60	11	160	19.0
MHB-6/03M	263.5	18	90	105	275	234.5	1 1/4"	145	60	11	160	20.1
MHB-6/04M	290	18	90	105	275	262	1 1/4"	145	60	11	160	21.4
MHB-6/05T	337.5	18	90	105	296	289.5	1 1/4"	145	60	11	160	21.6

* All Dimensions are in mm.

MHD Series

The CRI horizontal multistage centrifugal pumps are non-self-priming, axial suction and vertical radial discharge ports. The suction and discharge of the pump is supplied with threaded ports for connecting the pipes easily. This multi stage horizontal booster pump is specially to meet pressure boosting needs. Corrosion resistance stainless steel is used for most wetted parts in these pumps to ensure hygiene. These pumps are mono block type and supplied with TEFC energy efficient electric motors for trouble free long running hours. The dynamically balanced rotor ensures noise and vibration free operations. All single phase motors are supplied with inbuilt thermal protection to safeguard the winding while overload and extreme operating condition. The highly reliable mechanical seal and 'O' ring will ensure leak free operations in high pressure applications like pressure boosting, car washing and industrial washing etc.

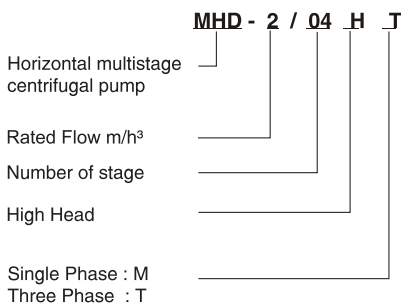


Applications : Mainly applicable for conveying of industrial liquid, such as mineral water soft water pure water clean oil and circulation and boosting for other weak chemical - industrial.
 | Water Treatment processes | Industrial cleaner and dishwasher | Water boosting on process | Heating and cooling for industrial process | Air-conditioning system | Air freshening heater device (soft water) | Water supply and boosting (drinking water light chlorine water) | Fertilization / metering system

Working Conditions : | Diluted, clean, non-ammable and non-explosive | liquid without solid grain or bers ; | Liquid temperature : -20°C~ +70°C ; Standard model : +15°C~+70°C ; High temperature : +70°C~+104°C | Max. environmental temperature : 50°C | Max. Operating pressure : 10 bar | Max. suction pressure is limited by max. Operating pressure.

MODEL IDENTIFICATION CODE

Connotation of the Type



TECHNICAL DATA

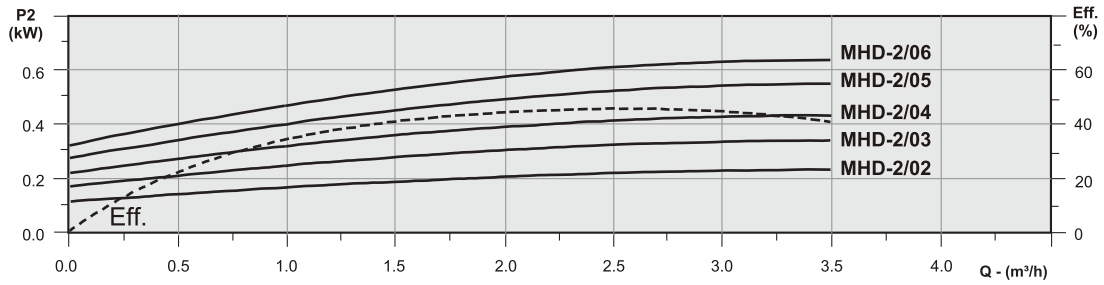
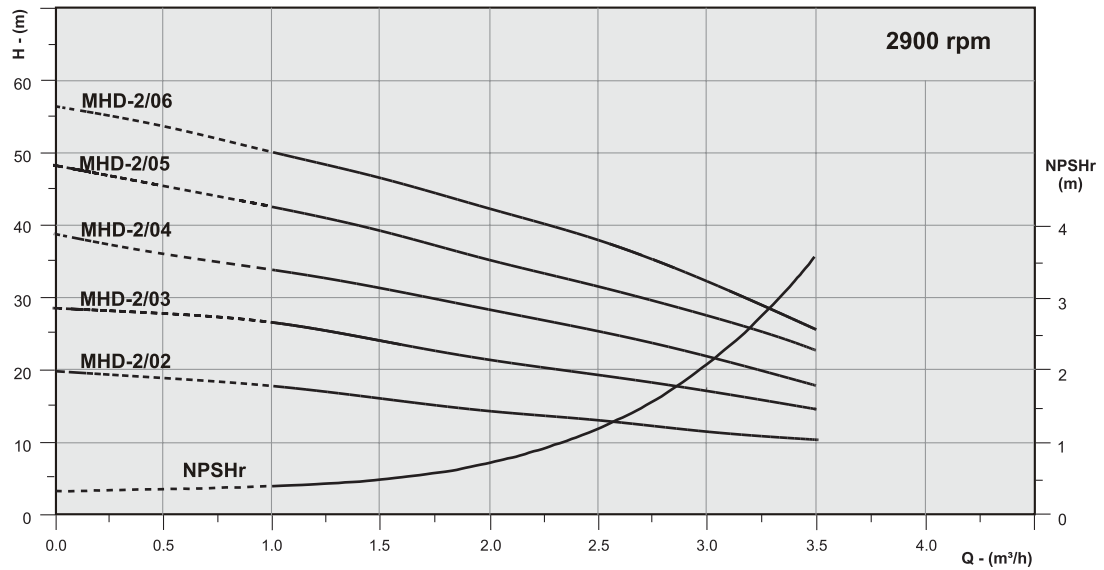
- Power Range : 0.37 kW to 3 kW
- Speed : 2900 rpm
- Version : Single phase: 220 – 240V,50Hz A.C Supply
Three phase: 380V,50Hz A.C Supply
- Degree of Protection : IP 55
- Insulation Class : F
- Type of Duty : S1 (Continuous)
- Number of Poles : 2 Poles
- Nominal Suc. X Del. Size : 1" X 1", 1¼" X 1", 1½" X 1½"

MATERIALS OF CONSTRUCTION	
Pump Body	S.S - 304
Impeller	S.S - 304
Shaft	S.S - 304
Pump Cover	S.S - 304
Motor Frame	Aluminium

* In view of continuous development, the information / descriptions / specifications / illustrations are subject to change without notice.

PERFORMANCE CURVES & TABLES

MHD - 2



MHS : 2

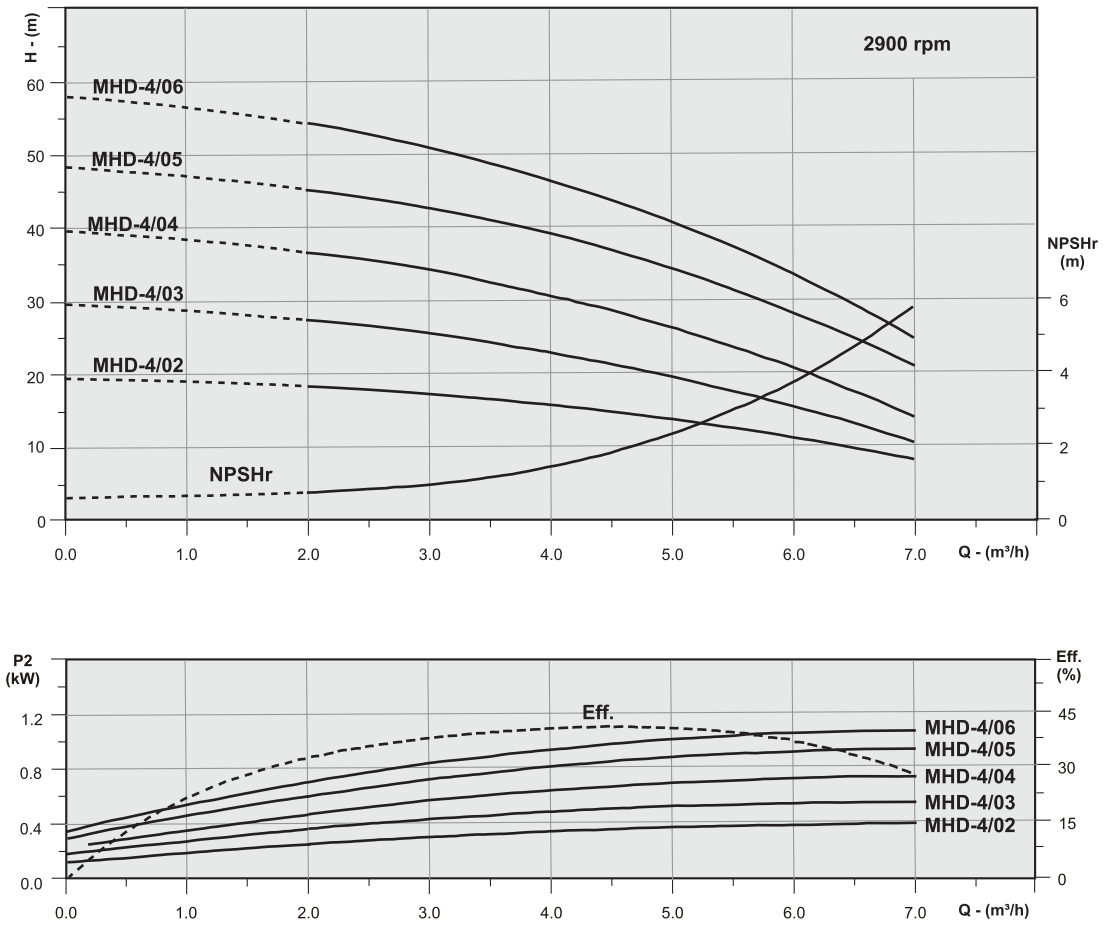
NOMINAL FLOW : 2 m³/h

NOMINAL PUMP SIZE : 1" x 1"

Model		P2 kW	l/s m ³ /h	0.28	0.42	0.56	0.69	0.83	0.97
Single Phase	Three Phase			1.0	1.5	2.0	2.5	3.0	3.5
MHD-2/02M	MHD-2/02T	0.37	Head in meters	18	16	14	13	11	10
MHD-2/03M	MHD-2/03T	0.37		27	24	21	20	17	14
MHD-2/04M	MHD-2/04T	0.55		35	32	28	26	23	17
MHD-2/05M	MHD-2/05T	0.55		43	40	35	33	28	22
MHD-2/06M	MHD-2/06T	0.75		50	48	42	38	32	25

PERFORMANCE CURVES & TABLES

MHD - 4



MHS : 4

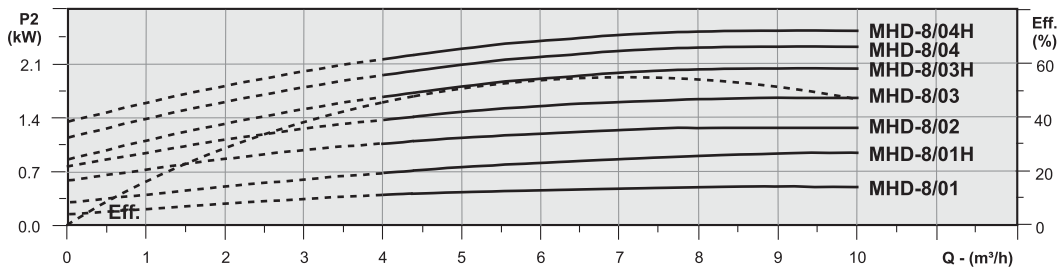
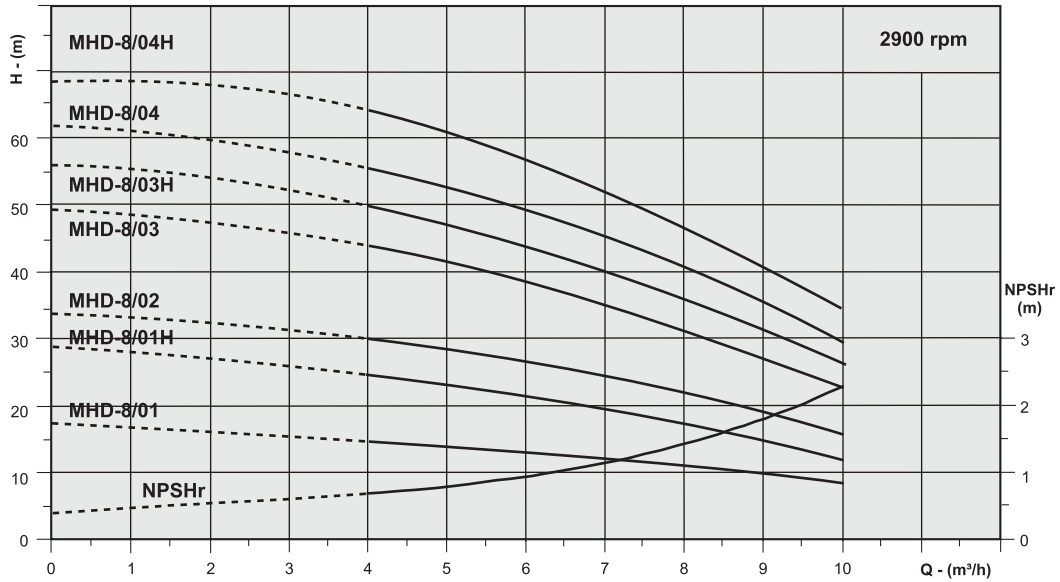
NOMINAL FLOW : 4 m³/h

NOMINAL PUMP SIZE : 1¼" x 1"

Model		P2 kW	l/s m ³ /h	0.56	0.83	1.1	1.39	1.67	1.94
Single Phase	Three Phase			2.0	3.0	4.0	5.0	6.0	7.0
MHD-4/02M	MHD-4/02T	0.55	Head in meters	18	16	15	13	10	7
MHD-4/03M	MHD-4/03T	0.75		27	25	22	19	15	10
MHD-4/04M	MHD-4/04T	0.75		36	33	30	26	20	13
MHD-4/05M	MHD-4/05T	1.0		44	41	38	32	26	20
MHD-4/06M	MHD-4/06T	1.1		53	50	45	40	33	24

PERFORMANCE CURVES & TABLES

MHD - 8



MHS : 8

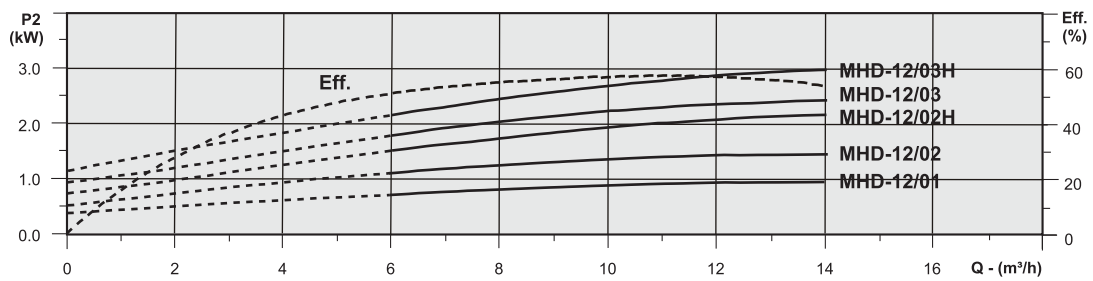
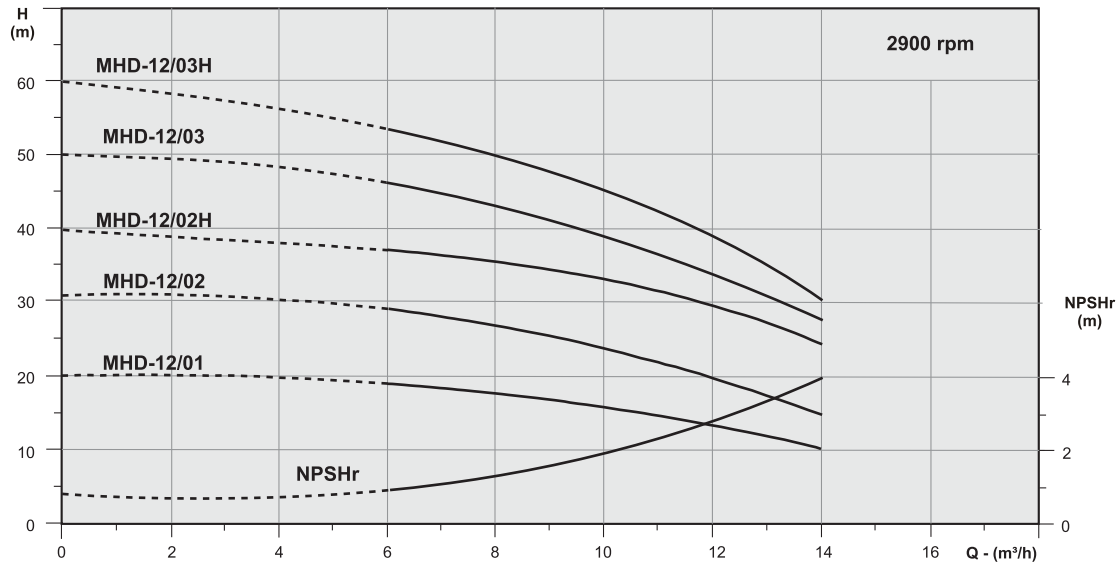
NOMINAL FLOW : 8 m³/h

NOMINAL PUMP SIZE : 1½" x 1½"

Model		P2 kW	l/s m ³ /h	1.1	1.39	1.67	1.94	2.22	2.50	2.78
Single Phase	Three Phase			4.0	5.0	6.0	7.0	8.0	9.0	10.0
MHD-8/01M	MHD-8/01T	0.55	Head in meters	15	14	13	12.5	12	9	8
MHD-8/01HM	MHD-8/01HT	0.75		25	23	22	21	20	14	12
MHD-8/02M	MHD-8/02T	1.0		32	29	27	25	24	21	17
MHD-8/03M	MHD-8/03T	1.5		43	40	38	34	27	25	20
MHD-8/03HM	MHD-8/03HT	1.85		50	46	44	40	36	30	26
MHD-8/04M	MHD-8/04T	2.2		56	51	48	44	43	35	28

PERFORMANCE CURVES & TABLES

MHD - 12



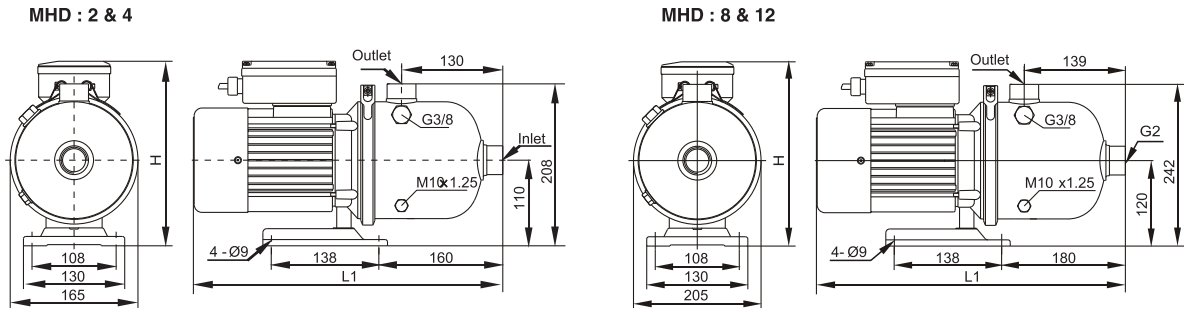
MHS : 12

NOMINAL FLOW : 12 m³/h

NOMINAL PUMP SIZE : 1½" x 1½"

Model		P2 kW	l/s m ³ /h	1.67	1.94	2.22	2.50	2.78	3.06	3.33	3.61	3.89
Single Phase	Three Phase			6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0
MHD-12/01M	MHD-12/01T	1.0	Head in meters	19	18	17.5	16	15.5	14	13.5	12	10.5
MHD-12/02M	MHD-12/02T	1.5		28	27	26	25	24	22	20	18	15
MHD-12/02HM	MHD-12/02HT	1.85		38	36	35	32	31	29	28	24	20
MHD-12/03M	MHD-12/03T	2.2		47	45	43	41.5	39	36	33.5	30.5	27
-	MHD-12/03HT	3.0		53.5	52	50	47.5	45	45	39	35	30

DIMENSIONAL DRAWING & DATA



DIMENSIONAL & WEIGHT

Model	Single Phase		Three Phase	
	L1	H	L1	H
MHD-2/02	405	236	405	214
MHD-2/03	405	236	405	214
MHD-2/04	405	236	405	214
MHD-2/05	405	236	405	214
MHD-2/06	405	236	405	214
MHD-4/02	405	236	405	214
MHD-4/03	405	236	405	214
MHD-4/04	405	236	405	214
MHD-4/05	405	236	405	214
MHD-4/06	405	236	405	214
MHD-8/01	425	245	425	225
MHD-8/01H	425	245	425	225
MHD-8/02	425	245	425	225
MHD-8/03	458	254	458	232
MHD-8/03H	500	239	458	232
MHD-8/04	500	239	458	232
MHD-8/04H	500	239	498	232
MHD-12/01	425	245	425	224
MHD-12/02	458	255	458	232
MHD-12/02H	500	239	458	232
MHD-12/03	500	239	458	232
MHD-12/03H	-	-	518	239

Pressure Boosting System - MVHS & MHHS



HYGIENIC WATER | HYDRAULIC EFFICIENCY | NOISELESS OPERATION

With an advanced vertical radial delivery type with threaded ports, all components are made of corrosive resistant AISI stainless steel. The pump is futuristically designed to eliminate transmission loss, pump high aggressive water and hygienic enough to be used for drinking purposes. Additionally, the wear resistant bearings ensure noiseless operation.

ADVANCED TECHNOLOGY | ENERGY SAVING

C.R.I Pressure Booster Systems are built with care using advanced technology and controlling devices /equipments that ensure efficient operation and energy saving. Nowadays pressure booster system becomes an essential part of all buildings including individual houses.

BOOSTER CONTROLLER | DISPLAY SYSTEMS | CONSTANT WATER SUPPLY

CRI Pressure Booster Systems are reliable, easy serviceable and used in water boosting units to get trouble free service for years together. Made of corrosion resistant stainless steel, the impellers, diffusers & shaft of these hydro-pneumatic systems are incredible in hydraulic efficiency.

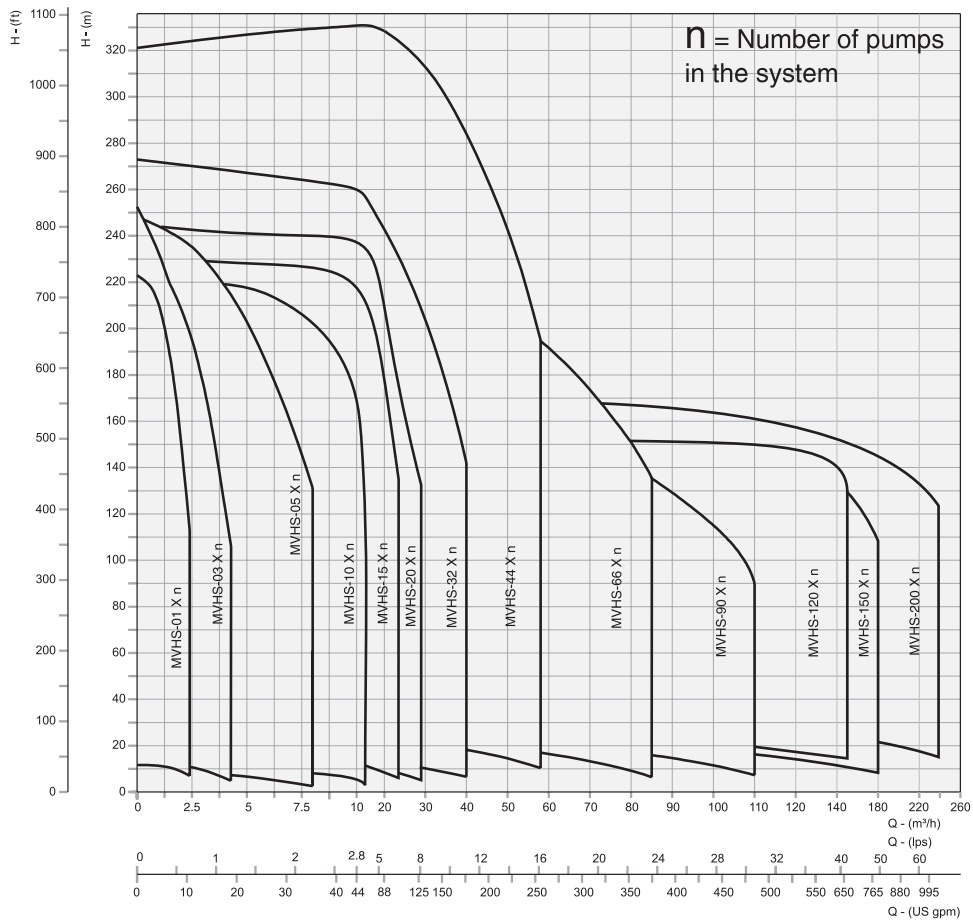
MANIFOLD SELECTION CHART FOR PRESSURE BOOSTING SYSTEM

PUMP SIZE	1" & 1¼"			1½"			2"			2½"		
	2P	3P	4P	2P	3P	4P	2P	3P	4P	2P	3P	4P
No. of Pumps (In parallel connection)	2P	3P	4P	2P	3P	4P	2P	3P	4P	2P	3P	4P
Manifold size (In inches)	1½"	2"	2½"	2"	2½"	3"	3"	4"	5"	4"	5"	6"

PERFORMANCE CURVES



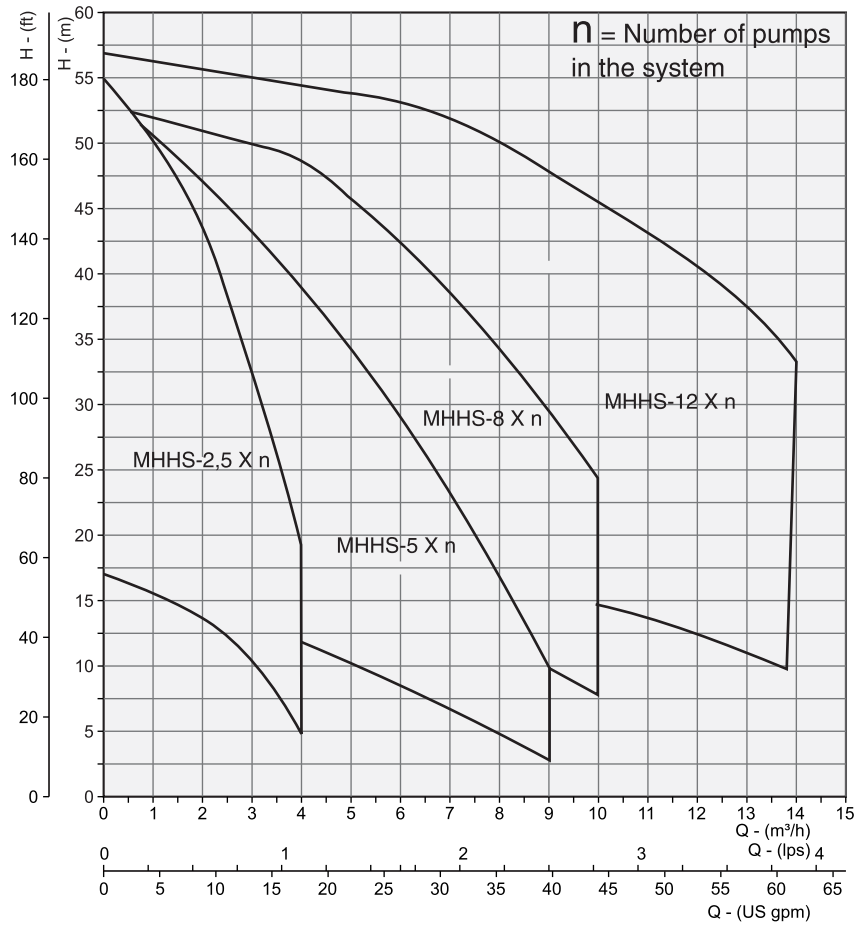
MVHS



PERFORMANCE CURVES



MHHS



PUMP CONTROLLER



TECHNICAL SPECIFICATIONS

Power Range	1Ph Input - 1Ph Output - 110V : 0.75 - 2.2kW - 220V : 0.75 - 4kW 1Ph Input - 3Ph Output - 220V : 0.75 - 5.5kW 3Ph Input - 3Ph Output - 380V : 0.75 - 45kW Note : other Voltage Range can also be supplied on demand
Output Voltage Range	0 to Input Voltage (Adjustable)
Drive Output Frequency Range	0.1 to 400 Hz (Adjustable to moto Hz)
Output Frequency Tolerance	0.1Hz
Operating Temperature	-10 to 40°C
Vibration	< 0.5G
Humidity	0.95% Relative Humidity (Non-condensing)
Display	Frequency/Current/Speed/Voltage/Pressure

CONVERSION TABLE

FLOW RATE

litre per second l/s	litre per minute l/min	cubic meter per hour m ³ /h	cubic foot per hour ft ³ /h	cubic foot per minute ft ³ /min	Imp.gallon per minute Imp.gal./min	US gallon per minute Us gal./min	Us barrel per day ls barrel/d (Petroleum)
1	60	3.6	127.133	2.1189	13.2	15.85	543.439
0.017	1	0.06	2.1189	0.0353	0.22	0.264	9.057
0.278	16.667	1	35.3147	0.5886	3.666	4.403	150.955
0.008	0.472	0.0283	1	0.0167	0.104	0.125	4.275
0.472	28.317	1.6990	60	1	6.229	7.480	256.475
0.076	4.546	0.2728	9.6326	0.1605	1	1.201	41.175
0.063	3.785	0.2271	8.0209	0.1337	0.833	1	34.286
0.002	0.110	0.0066	0.2339	0.0039	0.024	0.029	1

LIQUID

Cubic meter m ³	litre l	Milli litre ml	Imp. gallon Imp. Gal	US gallon US gal	cubic foot ft ³
1	1000	1 x 10 ⁶	220	264.2	35.3147
0.001	1	1000	0.22	0.2642	0.0353
1 x 10 ⁻⁶	0.001	1	2.2 X 10 ⁻⁴	2.642 x 10 ⁻⁴	3.53 x 10 ⁻⁵
0.00455	4.546	4546	1	1.201	0.1605
0.00378	3.785	3785	0.8327	1	0.1337
0.0283	28.317	28317	6.2288	7.4805	1

LIQUID HEAD AND PRESSURE

newton per square meter N/m ² (Pa)	kilo pascal kPa	bar	kilogram force per square centimeter Kg/cm ²	pound force per square inch psi	foot for water ft H ₂ O	meter of water m H ₂ O	millimeter of mercury mm Hg	inch of mercury in Hg
1	0.001	1 x 10 ⁻⁵	1.02 x 10 ⁻⁵	1.45 x 10 ⁻⁴	3.35 x 10 ⁻⁴	1.02 x 10 ⁻⁴	0.0075	2.95 x 10 ⁻⁴
1000	1	0.01	0.0102	0.145	0.335	0.102	7.5	0.295
1 x 10 ⁵	100	1	1.02	14.5	33.52	10.2	750.1	29.53
98,067	98.07	0.981	1	14.22	32.81	10	735.6	28.96
6895	6.895	0.069	0.0703	1	2.31	0.703	51.72	2.036
2984	2.984	0.03	0.0305	0.433	1	0.305	22.42	0.882
9789	9.789	0.098	0.1	1.42	3.28	1	73.42	2.891
133.3	0.133	0.0013	0.0014	0.019	0.045	0.014	1	0.039
3386	3.386	0.0338	0.0345	0.491	1.133	0.0345	25.4	1

LENGTH

millimeter mm	centimeter cm	meter m	inch in	feet ft	yard yd
1	0.1	0.001	0.0394	0.0033	0.0011
10	1	0.01	0.3937	0.0328	0.0109
1000	100	1	39.3701	3.2808	1.0936
25.4	2.54	0.0254	1	0.0833	0.0278
304.8	30.48	0.3048	12	1	0.3333
914.4	91.44	0.9144	36	3	1

1 Kilometer = 1000 metres = 0.62137 miles 1 mile = 1609.37 metres = 1.60934 kilometers

MASS

kilogram kg	pound lb	hundred weight (cwt)	tonne t	ton long tn	short ton sh tn
1	2.205	0.0197	0.001	9.84 x 10 ⁻⁴	0.0011
0.454	1	0.0089	4.54 x 10 ⁻⁴	4.46 x 10 ⁻⁴	5.0 x 10 ⁻⁴
50.802	112	1	0.0508	0.05	0.056
1000	2204.6	19.684	1	0.9842	1.1023
1016	2240	20	1.0161	1	1.102
907.2	2000	17.857	0.9072	0.8929	1

TEMPERATURE

To Convert From	To	Use Formula
Temperature Celsius, tc	Temperature Kelvin, tk	K = tc + 273.15
Temperature Fahrenheit, tf	Temperature Kelvin, tk	K = (tf + 459.67 / 1.8)
Temperature Celsius, tc	Temperature Fahrenheit, tf	F = 1.8 tc + 32
Temperature Fahrenheit, tf	Temperature Celsius, tc	C = (tf - 32) / 1.8
Temperature Kelvin, tk	Temperature Celsius, tc	C = tk - 273.15
Temperature Kelvin, tk	Temperature Fahrenheit, tf	F = 1.8tk - 459.67

W I N N I N G W A Y S

When you have a good thing going it is quite in the fitting of things that recognitions come our way. Several prestigious awards, which decorate our shelf, say it all. These rewards not only acknowledge our position as a leader in the water pump industry but also serve as reminders about what the customer expects from a winner. And we, as ever, have our ears perfectly tuned to customer expectations.



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