



VAMA

PUMPS

**Stainless Steel Vertical
Multistages Pumps**



100% MADE IN ITALY

INDEX



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VAMA Pumps is a specialized Pumps Manufacturer Focused on the main production of Stainless Steel Submersible and Vertical Multistage Pumps . It has been founded in 1968 and its first main production was based on the manufacturing of Submersible Motors and Pumps Spare Parts.

In 1974 it start its own production of Submersible Pumps and motors upon 100 Hp and enlarge the production in 1982 up to 300 Hp and 12" Pumps diameter. Thanks to the employment of realible Engineers and Marketing Manager it had expanded the Market activity along European Market and Middle East Countries and in 1988 had remark its presence in Maghreb Areas and Central Africa.

In 1994 the Owner and Marketing General Manager has been amazed by the Extreme High and realible efficiency and application flexibility of the Stainless Steel Submersible Pumps and has seen a shining future of this kind of products. Starting from 1995 the Designing, Project and Production of new line of 4" and 6" Stainless Steel Pumps has been kick started getting an unexpected success in the market and rise up the presence of company in the key position markets in few years making it one of the main Stainless Steel Pump manufacturer in the World.

Thanks to this initial success VAMA has start and complete the production of new Serie of Stainless Steel Pumps to 8", 10" & 12" bore hole application developing pumps up to 250 Kw power.

In 2011 **VAMA** has a further development in its production activity, thanks to the support of its main and most important Customers it has start the Production of Complete Set for Pumps' station including Horizontal Multistage Pumps , Pipes and Fitting installation, Surge Tank against Water Hammer Strikes and High Technology Telemetric SCADA Controls Systems for Water Treatment and Authomatic Pumping Station Management.



Harare SCADA control room



Impeller vanes



CNC Lathe machining operation



Impeller vane production



Sabeta pumping station



Vertica Pumps booster set



Fire fighting set



Diffuser internal vanes



Coil pressing operation



C E R T I F I C A T E

Certificato n.

15-Q-0200551-TIC

Certificate No.

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITA' DI
WE HEREBY CERTIFY THAT THE QUALITY MANAGEMENT SYSTEM
OPERATED BY



VAMA S.r.l.

Via Partigiani d'Italia 20
42025 Cavriago RE ITALY

E' CONFORME AI REQUISITI DELLA NORMA
IS IN COMPLIANCE WITH THE REQUIREMENTS OF STANDARD

ISO 9001:2008

QUESTO CERTIFICATO E' VALIDO PER LE SEGUENTI ATTIVITA'
THIS CERTIFICATE IS VALID FOR THE FOLLOWING ACTIVITIES

**Progettazione e produzione di pompe sommerse, pompe di
superficie e gruppi di pompaggio**

**Design and production of submersible pumps, surface pumps
and pumping equipments**

MEDIANTE UN AUDIT, RAPPORTO n.
AN AUDIT WAS PERFORMED, REPORT No.

RC-0715-Q-TIC-MS-0200551-15

Data di scadenza

02.08.2018

Expiring date



Deutsche
Akkreditierungsstelle
D-ZM-16012-01-00



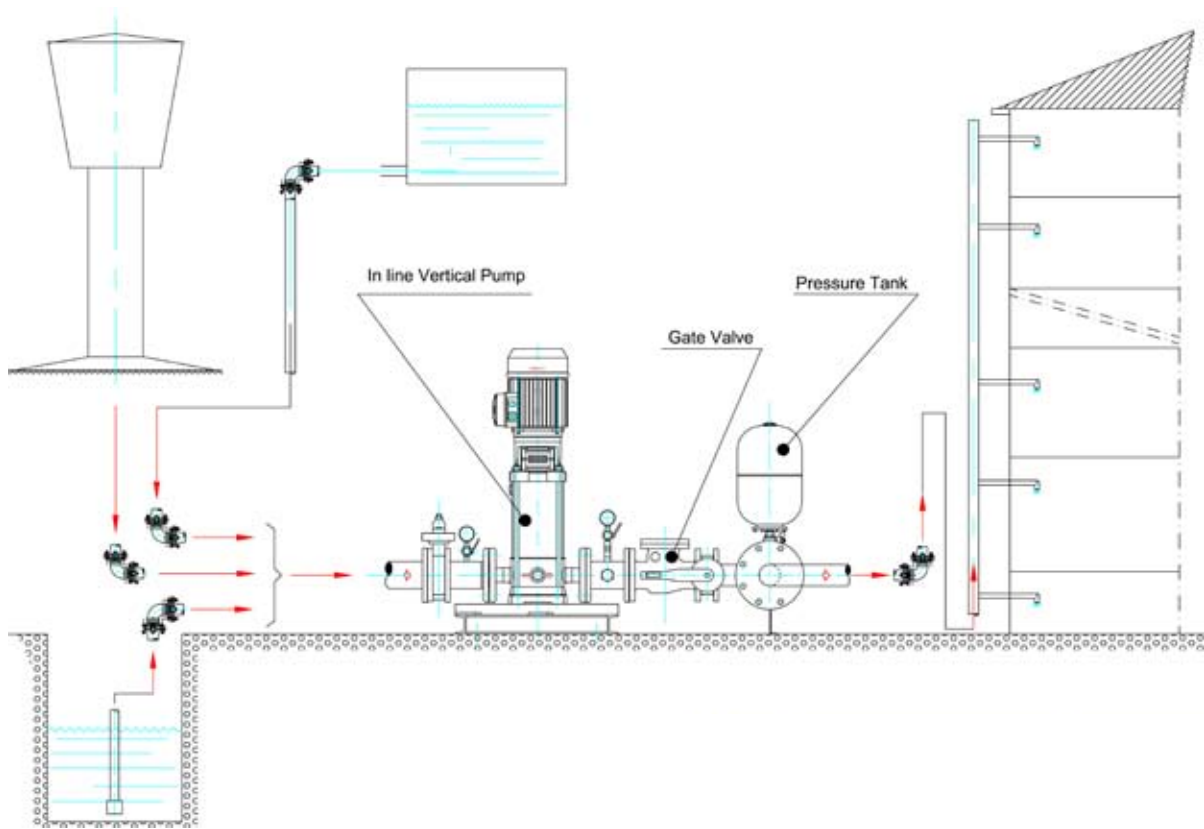
Bonn 03.08.2015

L. Lindenblatt

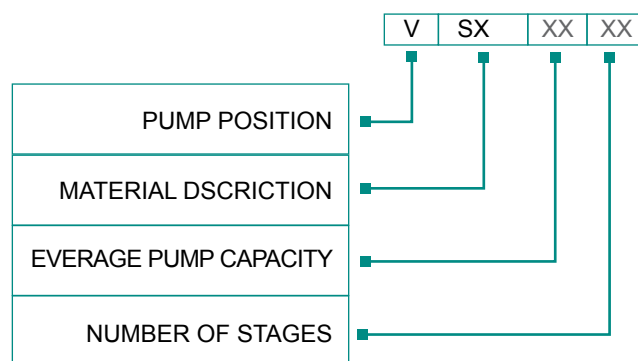
Dipl.- Ing. K. Lindenblatt

TÜV INTERCERT Certification Body

TÜV INTERCERT GmbH - Group of TÜV Saarland - Am Bonner Bogen 2 - 53227 Bonn GERMANY
www.tuv-intercert.org



General Data



The VSX pumps of VAMA Serie 8,12,15 & 24 are no-Self Priming Vertical Multistage In-Line Pumps, Flanged or Threaded outlet Type with equally sizes for Inlet and Outlet side.

All Hydraulic components are made in Stainless Steel AISI 304 or 316L according with Customers demand. Pump stub shaft and motor shaft of the IEC-Standard motor are directly coupled by rigid joint supported by Thrust Ball-Bearing.

Mechanical Seal is realized by 2 options in Carbon/Ceramic for pumps upon 10 Stages or in Silicon Carbide for higher of 12 stages or AISI 316L version.



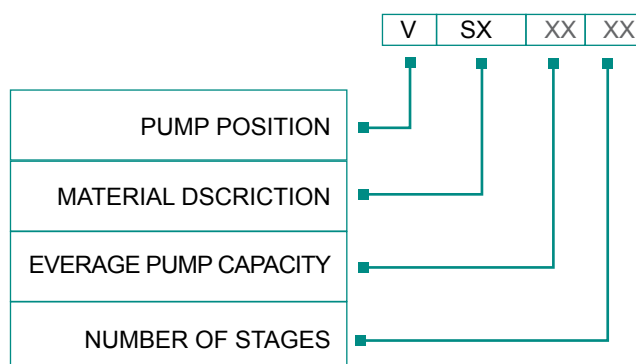
APPLICATIONS

- Pressure Boosting in Building, Hotels, Residential Complex
- Pressure Booster stations, supply of water in water-works
- Industrial Applications
- Greenhouses
- Sprinkler Irrigation Systems
- Fields irrigation

APPLICATION LIMIT

- Water Temperature Max 120°C
- Max Sand containing: 50 g/m³
- Max Working Pressure: 25 BARS, for Higher Pressure please contact our Technical Staff
- Electric Motor in Efficiency: IE1, IE2 or IE3 according with Customer Demand
- Max Rotating Speed: 4.000 RPM

General Data



The VSX pumps of VAMA Serie 30, 45 & 60 are no-Self Priming Vertical Multistage In-Line Pumps for Big Capacity, Flanged outlet Type with equally sizes for Inlet and Outlet side.

All Hydraulic components are made in Stainless Steel AISI 304 or 316L according with Customers demand. Pump stub shaft and motor shaft of the IEC-Standard motor are directly coupled by rigid joint supported by Thrust Ball-Bearing.

Mechanical Seal is realized by 2 options in Carbon/Ceramic for pumps upon 8 Stages or in Silicon Carbide for higher of 10 stages or AISI 316L version.

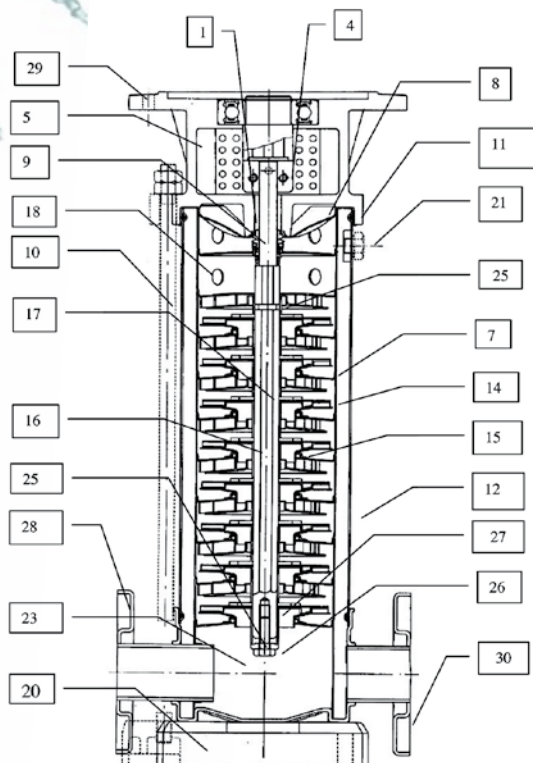


APPLICATIONS

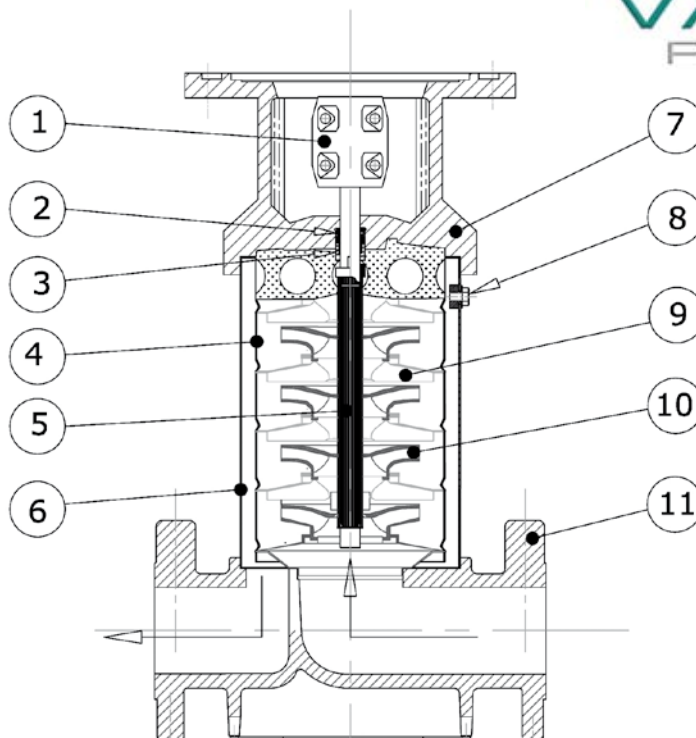
- Pressure Boosting in Building, Hotels, Residential Complex
- Pressure Booster stations, supply of water in water-works
- Industrial Applications
- Greenhouses
- Sprinkler Irrigation Systems
- Fields irrigation

APPLICATION LIMIT

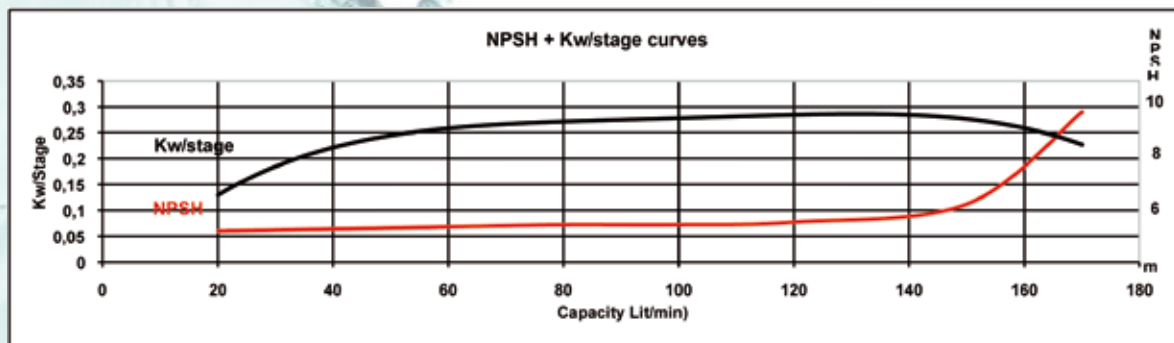
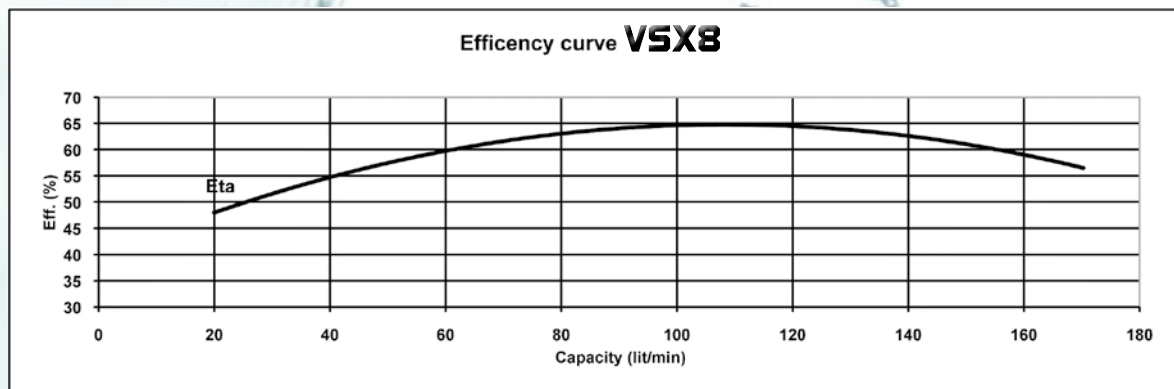
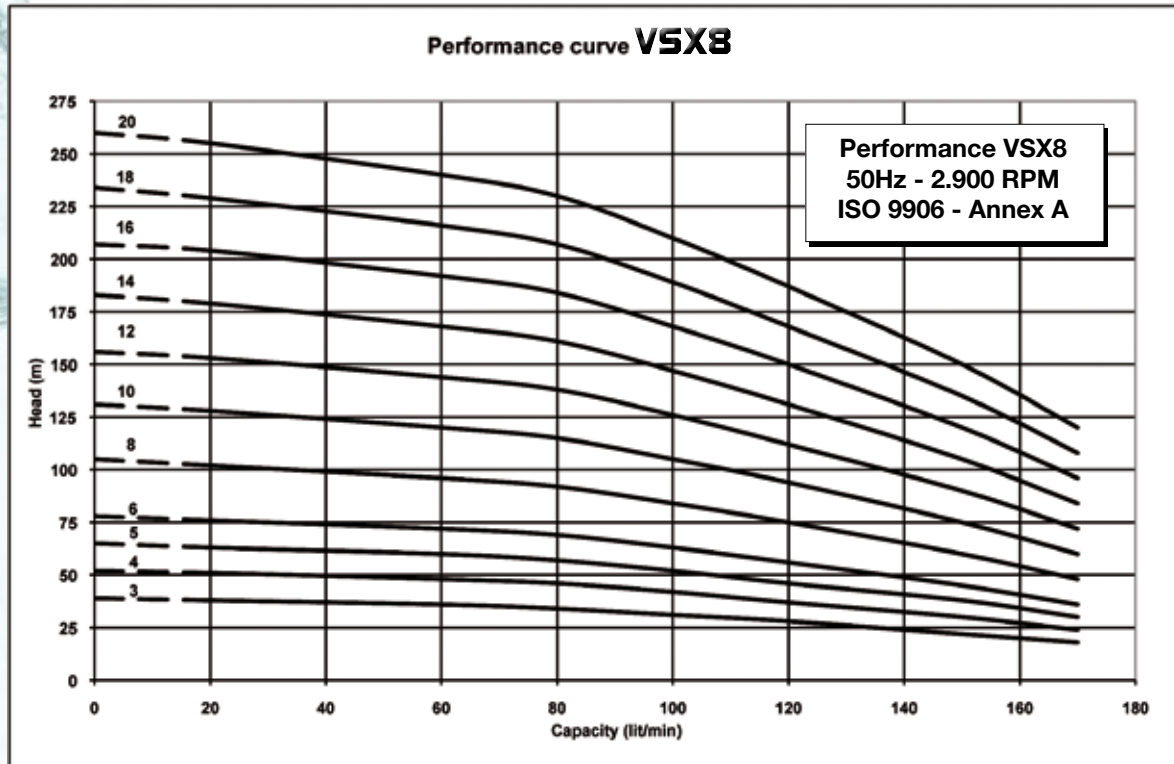
- Water Temperature Max 120°C
- Max Sand containing: 50 g/m3
- Max Working Pressure: 25 BARS, for Higher Pressure please contact our Technical Staff
- Electric Motor in Efficiency : IE1, IE2 or IE3 according with Customer Demand
- Max Rotating Speed: 4.000 RPM



N° Componente	Descrizione del particolare / Details	Material
1	Giunto / coupling	S.S. AISI 304
2	Grano / screw	S.S. AISI 304
3	Vite a brugola / exagonal screw	S.S. AISI 304
4	Anello seeger / seeger ring	S.S. AISI 304
5	Lanterna / motor basket	Cast Iron
6	Cuscinetto / ball bearing	*****
7	Diffusore / Diffuser	S.S. AISI 304
8	Flangia porta-tenuta / seal holder	S.S. AISI 304
9	Tenuta Meccanica / mechanical seal	Carbon/Ceramic
10	Tirante / tie-rod	Galvanized steel
11	Guarnizione / O ring	NBR
12	Camicia / External Casing	S.S. AISI 304
13	Protezione giunto / Coupling Guard	S.S. AISI 304
14	Girante / Impeller	S.S. AISI 304
15	Anello OR girante (nel diffusore) / Impeller O Ring	NBR
16	Distanziale / Spacer	AISI 316 L
17	Albero / Shaft	S.S. AISI 304
18	Corpo pompa (Esterno diffusore) / Pump body	S.S. AISI 304
19	Dado / Nut	S.S. AISI 304
20	Base Pompa / Pump Base	Galvanized steel
21	Tappo di carico / Tap	S.S. AISI 304
22	Dado / Nut	S.S. AISI 304
23	Virola di aspirazione / Intel Body	S.S. AISI 304
24	Bronzina / Diving Bush	Teflon
25	Mezza-luna blocca giranti / Impeller Stopper	S.S. AISI 304
26	Vite blocca giranti / Impeller Locker	S.S. AISI 304
27	Fermo blocca giranti / Impeller Stop Ring	S.S. AISI 304
28	Flangia aspirazione / Intel flange	S.S. AISI 304



N° Componente	Descrizione del particolare / Details	Material
1	Giunto motore elettrico / Electric motor coupling	Cast Iron
2	Controfaccia Tenuta Meccanica-Faccia rotante / Mechanical seal-fixed face	Carbon
3	Tenuta Meccanica - Faccia rotante / Mechanical seal-rotating face	Ceramic
4	Camera intermedia / Intermediate casing	S.S. AISI 304
5	Albero pompa / Pump shaft	S.S. AISI 304
6	Camicia esterna / External casing	S.S. AISI 304
7	Lanterna Motore / Electric motor support base	Cast Iron
8	Tappo di carico / Filling plug	S.S. AISI 304
9	Diffusore / Diffuser	S.S. AISI 304
10	Girante / Impeller	S.S. AISI 304
11	Base / base	Cast Iron



VSX8



VSX8

PUMP MODEL
VSXB- 3
VSXB- 4
VSXB- 5
VSXB- 6
VSXB- 8
VSXB- 10
VSXB- 12
VSXB- 14
VSXB- 16
VSXB- 18
VSXB- 20

POWER	
HP	KW
1	0,75
1,5	1,1
2	1,5
2	1,5
3	2,2
4	3
5,5	4
5,5	4
7,5	5,5
10	7,5
10	7,5

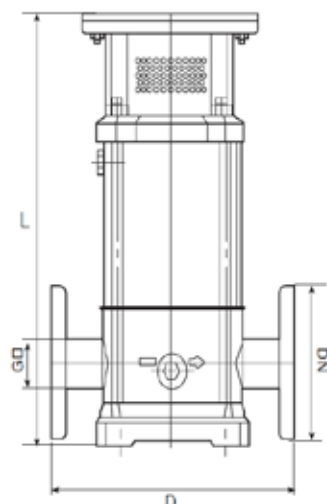
Lit/sec	0,33	1,00	1,33	1,67	2,00	2,50	2,83
Lit/min	20	60	80	100	120	150	170
CBM/h	1,2	3,6	4,8	6	7,2	9	10,2

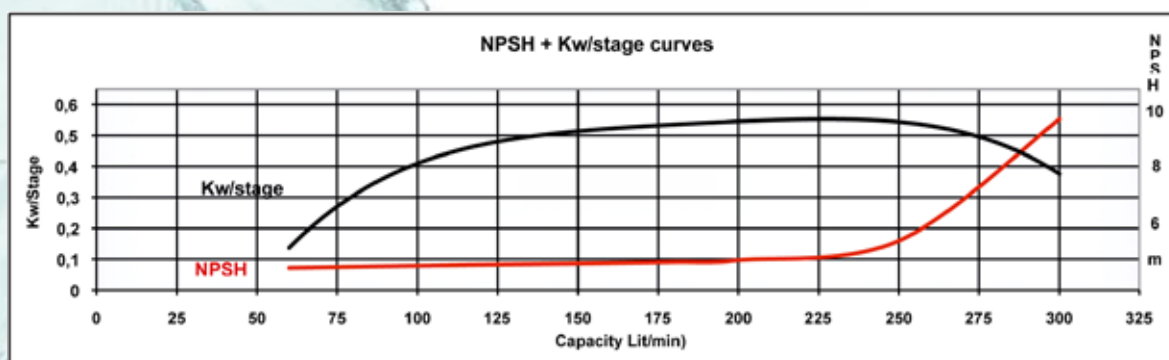
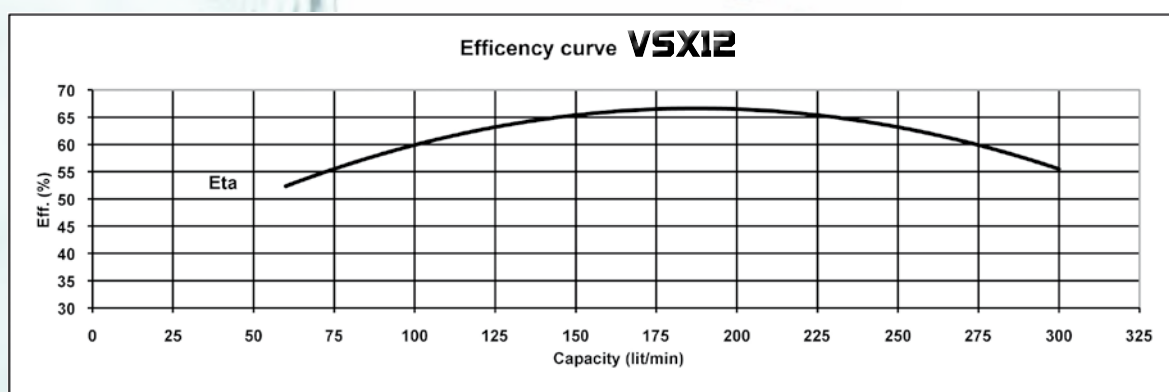
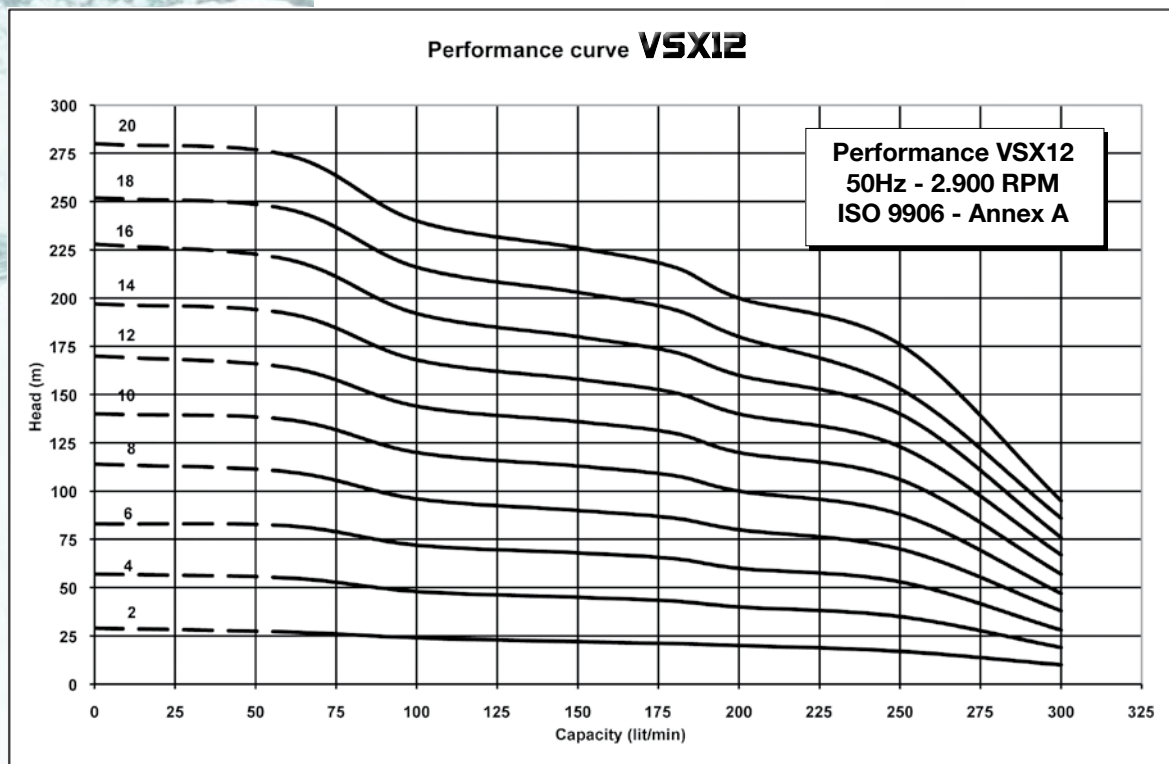
38	36	34	31	28	22	18
51	48	46	42	37	30	24
63	60	57	52	46	38	30
76	72	69	63	56	45	36
102	96	92	84	75	60	48
128	120	115	105	94	75	60
153	144	138	126	112	90	72
179	168	161	147	131	105	84
204	192	184	168	150	120	96
229	216	207	189	168	135	108
255	240	230	210	187	150	120

Advised application field

PUMP MODEL
VSXB- 3
VSXB- 4
VSXB- 5
VSXB- 6
VSXB- 8
VSXB- 10
VSXB- 12
VSXB- 14
VSXB- 16
VSXB- 18
VSXB- 20

D	L	G"	DN
295	421	1*1/2	40
295	459	1*1/2	40
295	497	1*1/2	40
295	535	1*1/2	40
295	611	1*1/2	40
295	687	1*1/2	40
295	763	1*1/2	40
295	839	1*1/2	40
295	917	1*1/2	40
295	993	1*1/2	40
295	1069	1*1/2	40





VSX12



VSX12

PUMP MODEL
VSX12- 2
VSX12- 4
VSX12- 6
VSX12- 8
VSX12- 10
VSX12- 12
VSX12- 14
VSX12- 16
VSX12- 18
VSX12- 20

POWER	
HP	KW
2	1,5
3	2,2
4	3
5,5	4
7,5	5,5
7,5	5,5
10	7,5
12,5	9,2
15	11
15	11

Lit/sec	1	1,667	2,5	3	3,333	4,167	5
Lit/min	60	100	150	180	200	250	300
CBM/h	3,6	6	9	10,8	12	15	18

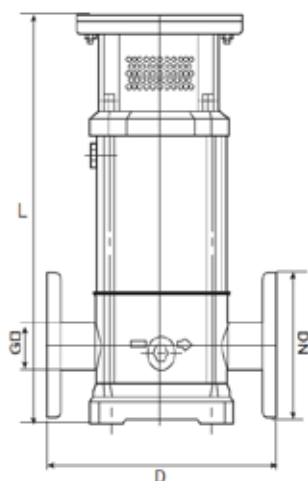
27	24	22	21	20	17	10
55	48	45	43	40	35	19
82	72	68	65	60	53	28
110	96	90	86	80	70	38
137	120	113	108	100	88	47
164	144	136	130	120	106	57
192	168	158	151	140	123	67
220	192	180	172	160	140	76
246	216	203	194	180	153	86
274	240	226	216	200	176	95

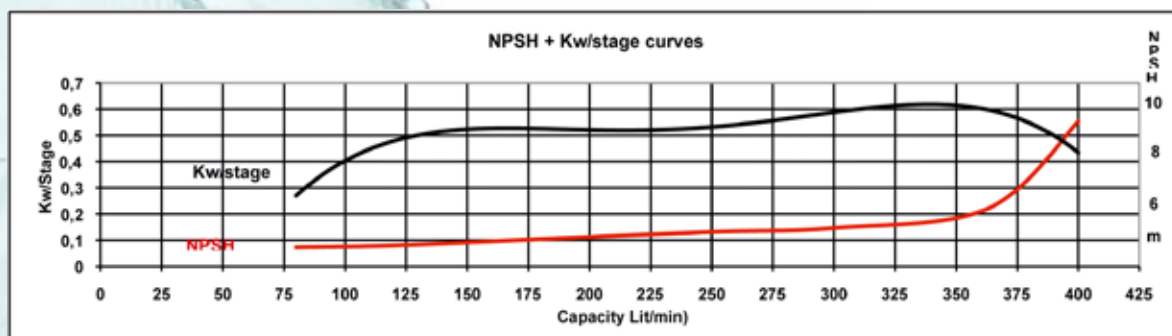
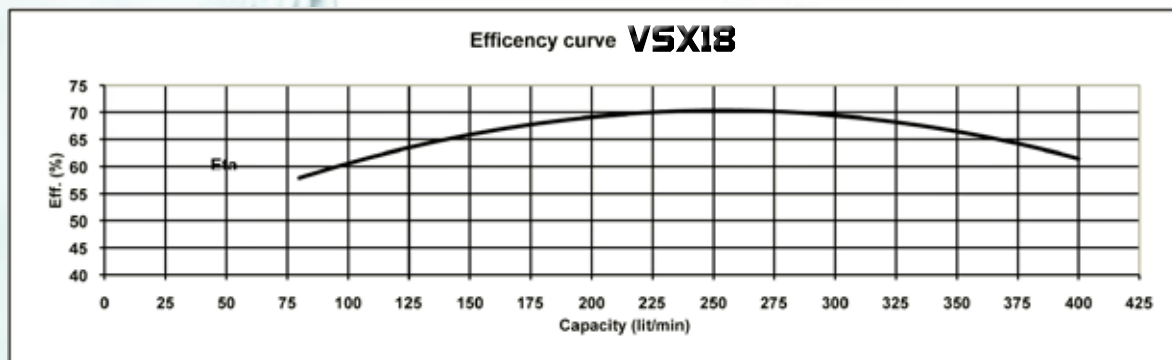
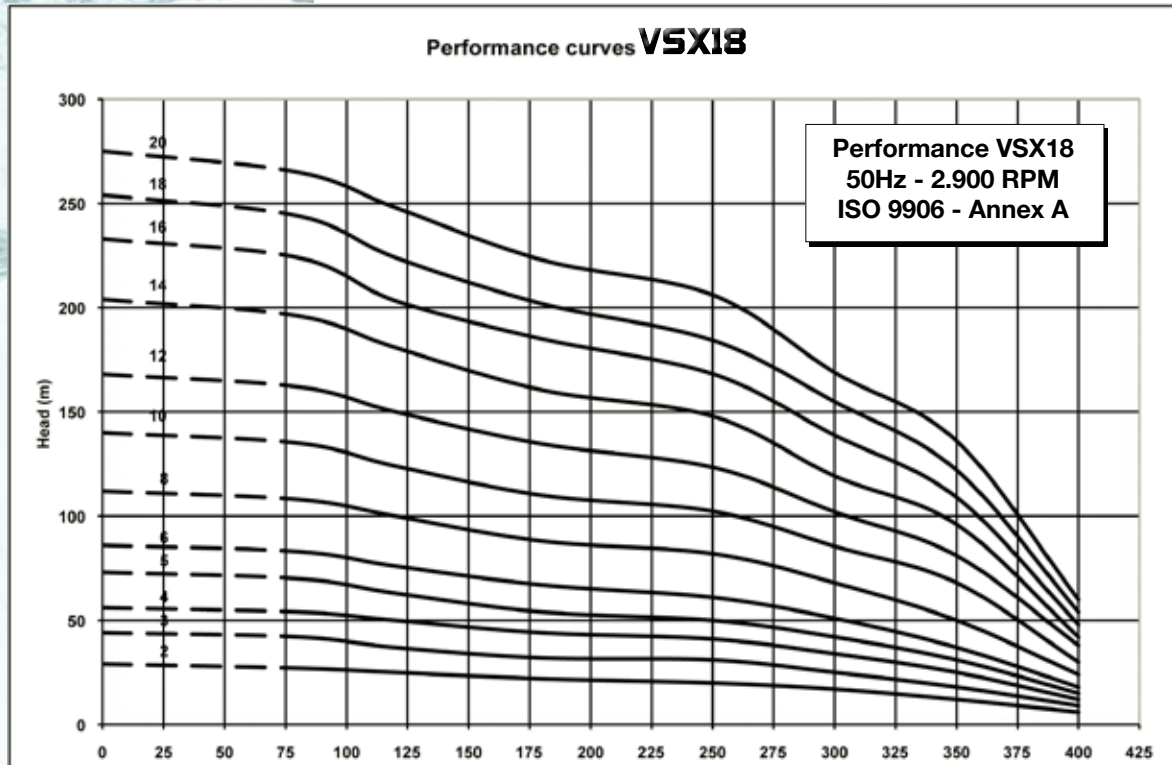
Advised application field

PUMP MODEL
VSX12- 2
VSX12- 4
VSX12- 6
VSX12- 8
VSX12- 10
VSX12- 12
VSX12- 14
VSX12- 16
VSX12- 18
VSX12- 20

D	L	G"	DN
295	395	1*1/2	40
295	470	1*1/2	40
295	545	1*1/2	40
295	620	1*1/2	40
295	715	1*1/2	40
295	790	1*1/2	40
295	865	1*1/2	40
295	940	1*1/2	40
295	1010	1*1/2	40
295	1085	1*1/2	40

(*) UNDER REQUEST AVAILABLE WITH THREADED OUTLET





VSX18



VSX18

PUMP MODEL
VSX18- 2
VSX18- 3
VSX18- 4
VSX18- 5
VSX18- 6
VSX18- 8
VSX18- 10
VSX18- 12
VSX18- 14
VSX18- 16
VSX18- 18
VSX18- 20

POWER	
HP	KW
2	1,5
3	2,2
4	3
5,5	4
7,5	5,5
10	7,5
10	7,5
15	11
15	11
15	11
20	15
20	15

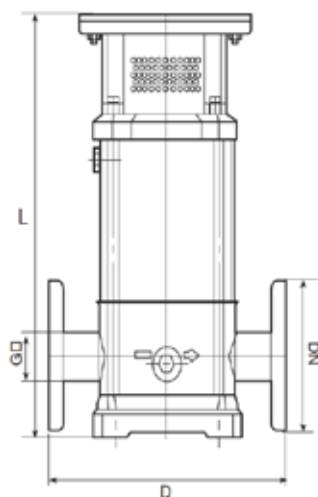
Lit/sec	1,33	2,00	3,00	4,17	5,00	5,83	6,67
Lit/min	80	120	180	250	300	350	400
CBM/h	4,8	7,2	10,8	15	18	21	24

27	25	22	20	17	12	6
42	37	32	31	25	18	9
54	50	44	41	34	25	12
70	63	54	50	42	31	15
83	76	67	61	51	37	18
108	100	88	82	68	50	24
135	124	110	105	88	68	30
162	150	132	126	102	81	38
196	176	154	147	123	96	42
224	200	176	168	141	109	48
244	224	198	189	158	122	54
265	248	218	210	166	136	60

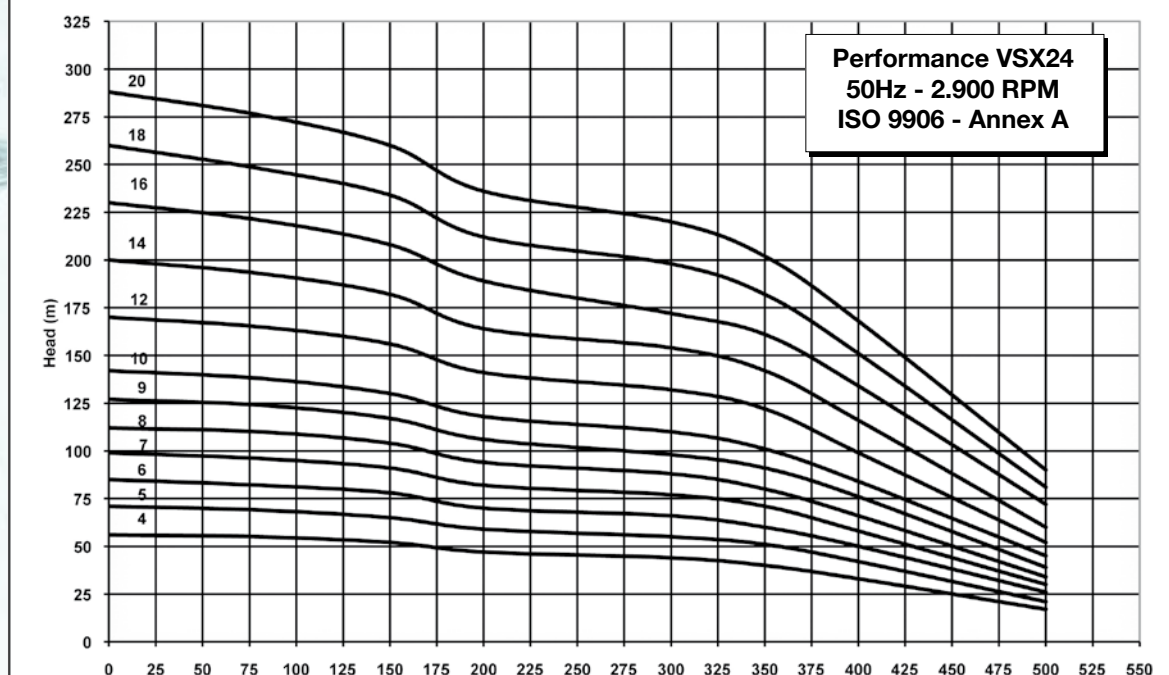
Advaiced application field

PUMP MODEL
VSX18- 2
VSX18- 3
VSX18- 4
VSX18- 5
VSX18- 6
VSX18- 8
VSX18- 10
VSX18- 12
VSX18- 14
VSX18- 16
VSX18- 18

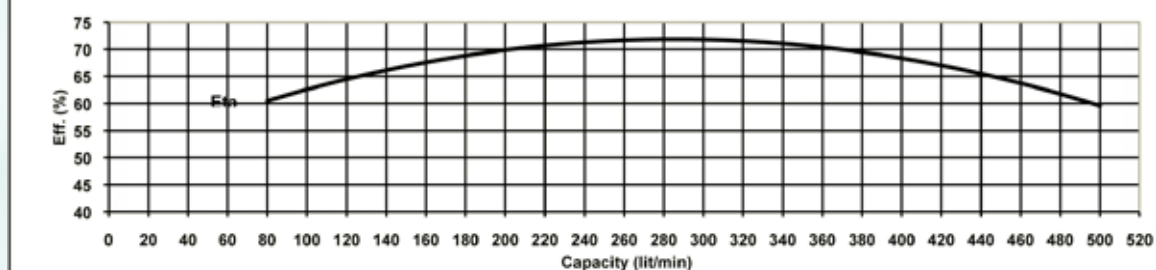
D	L	G"	DN
295	400	2"	50
295	438	2"	50
295	470	2"	50
295	514	2"	50
295	565	2"	50
295	640	2"	50
295	715	2"	50
295	790	2"	50
295	865	2"	50
295	935	2"	50
295	1010	2"	50



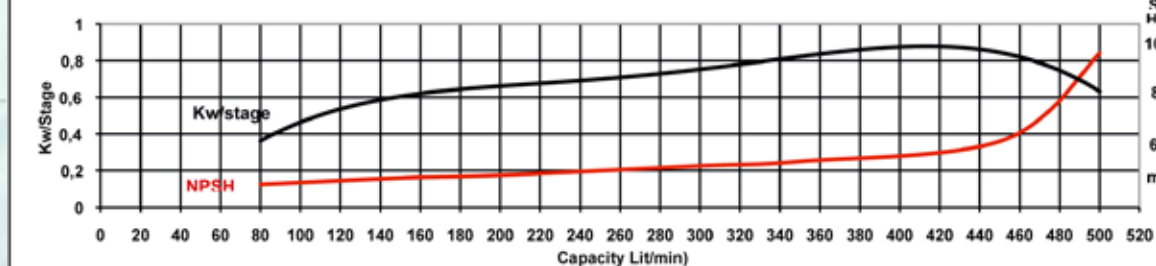
Performance Curve **VSX24**



Efficiency curve **VSX24**



NPSH + Kw/stage curves



VSX24



VSX24

PUMP MODEL
VSX24- 4
VSX24- 5
VSX24- 6
VSX24- 7
VSX24- 8
VSX24- 9
VSX24- 10
VSX24- 12
VSX24- 14
VSX24- 16
VSX24- 18
VSX24- 20

POWER	
HP	KW
5,5	4
7,5	5,5
7,5	5,5
10	7,5
10	7,5
12,5	9,2
15	11
15	11
20	15
20	15
25	18,5
30	22

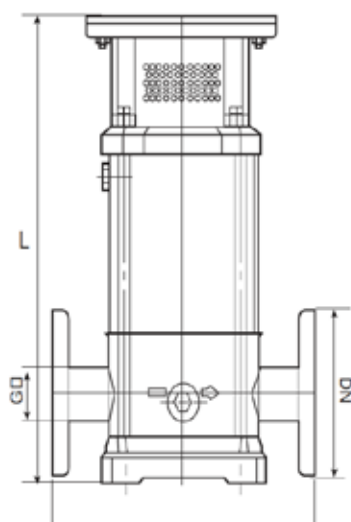
Lit/sec	1,333	2,5	3,333	5	5,833	6,667	8,333
Lit/min	80	150	200	300	350	400	500
CBM/h	4,8	9	12	18	21	24	30

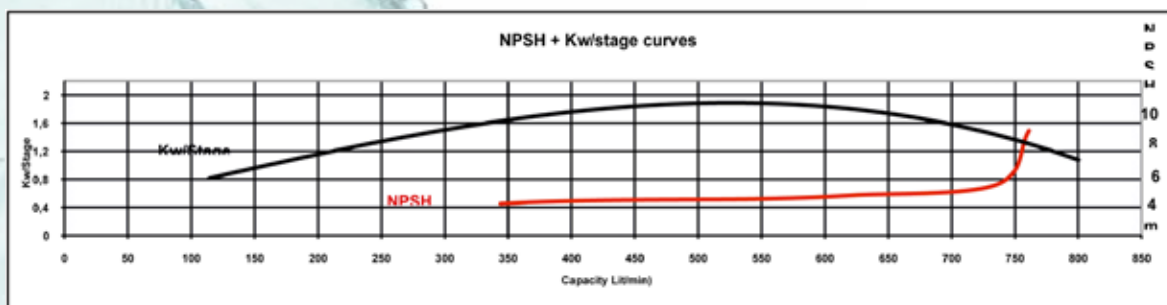
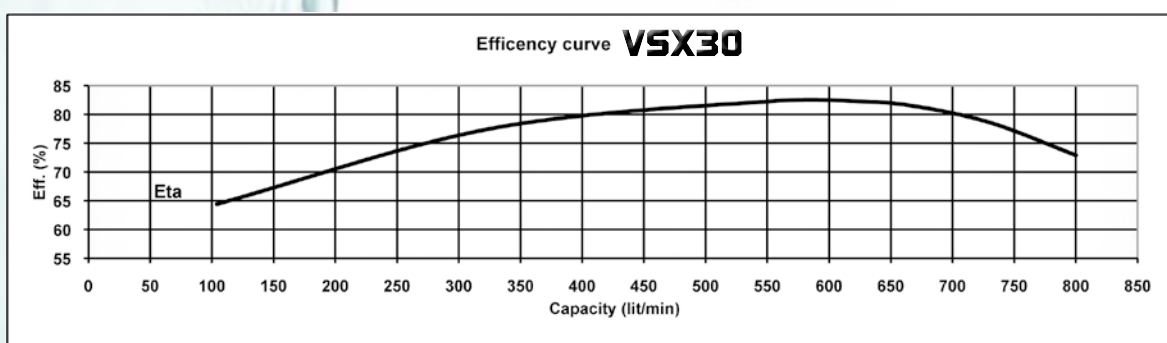
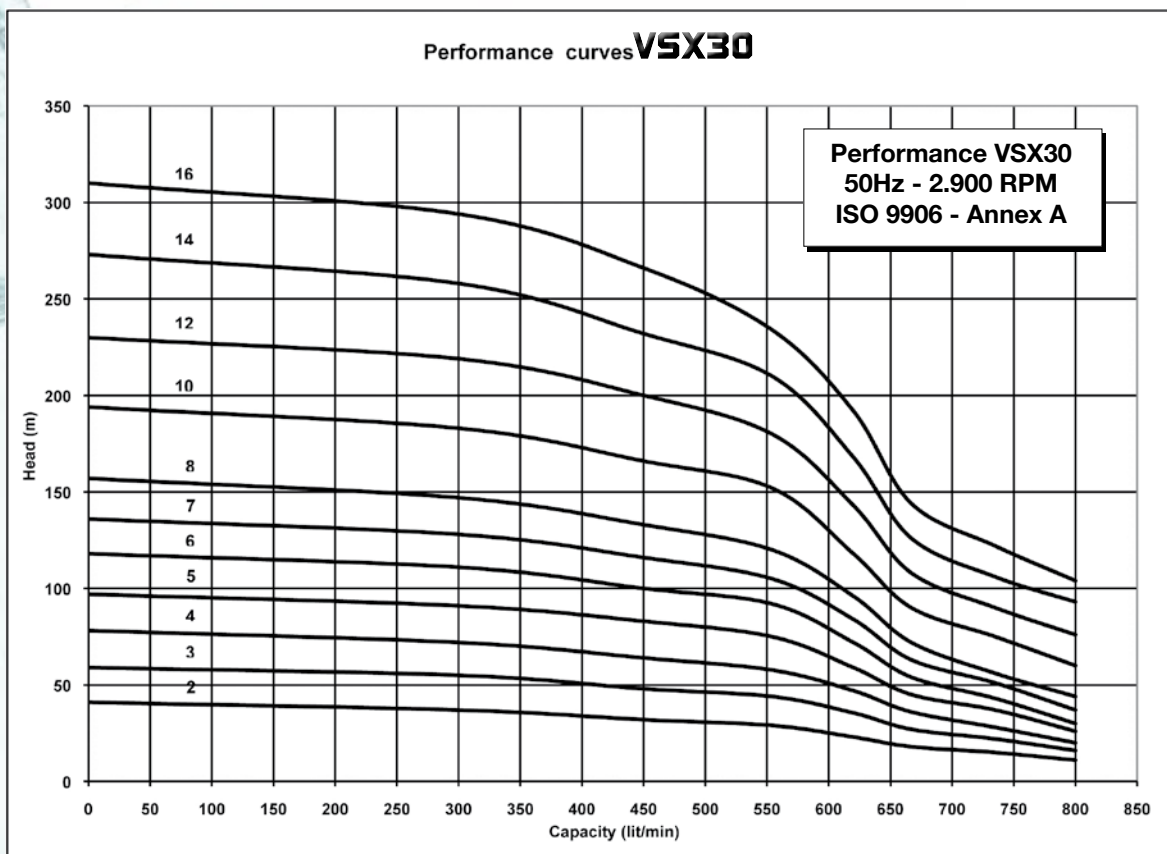
55	52	47	44	40	33	17
69	65	59	55	51	42	21
82	78	70	66	60	50	26
96	91	82	77	71	58	30
110	104	94	88	80	66	34
124	117	106	98	91	76	39
138	130	118	110	101	84	45
165	156	141	132	122	99	52
193	182	164	154	142	116	60
221	208	189	172	161	134	72
248	234	212	198	182	151	81
276	260	236	220	202	168	90

Advised application field

PUMP MODEL
VSX24- 4
VSX24- 5
VSX24- 6
VSX24- 7
VSX24- 8
VSX24- 9
VSX24- 10
VSX24- 12
VSX24- 14
VSX24- 16
VSX24- 18
VSX24- 20

D	L	G"	DN
295	495	2"	50
295	525	2"	50
295	563	2"	50
295	625	2"	50
295	675	2"	50
295	735	2"	50
295	785	2"	50
295	885	2"	50
295	985	2"	50
295	1085	2"	50
295	1185	2"	50
295	1285	2"	50





VSX30



VSX30

PUMP MODEL
VSX30- 2
VSX30- 3
VSX30- 4
VSX30- 5
VSX30- 6
VSX30- 7
VSX30- 8
VSX30- 10
VSX30- 12
VSX30- 14
VSX30- 16

POWER	
HP	KW
5,5	4
7,5	5,5
10	7,5
15	11
15	11
20	15
20	15
25	18,5
30	22
40	30
40	30

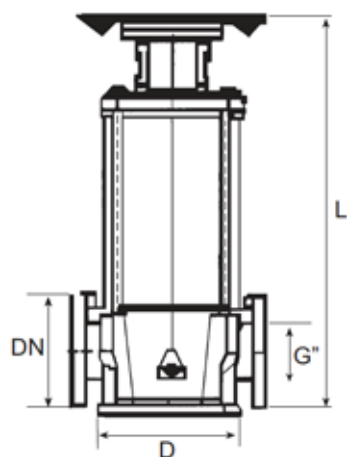
Li/sec	5	7,5	9,23	10,3	11,1	12,2	13,3
Li/min	300	450	554	620	667	730	800
CBM/h	18	27	33,2	37,2	40	43,8	48

37	32	29	23	18	15	11
55	48	44	35,5	27	22	16
72	64	60	47	36	28	20
91	83	75	59	45	37	26
111	100	92	72	54	43	30
128	116	105	84	63	51	37
147	133	120	96	72	56	44
183	166	152	118	90	75	60
219	200	180	143	108	90	76
258	232	210	168	126	106	93
294	266	234	192	144	122	104

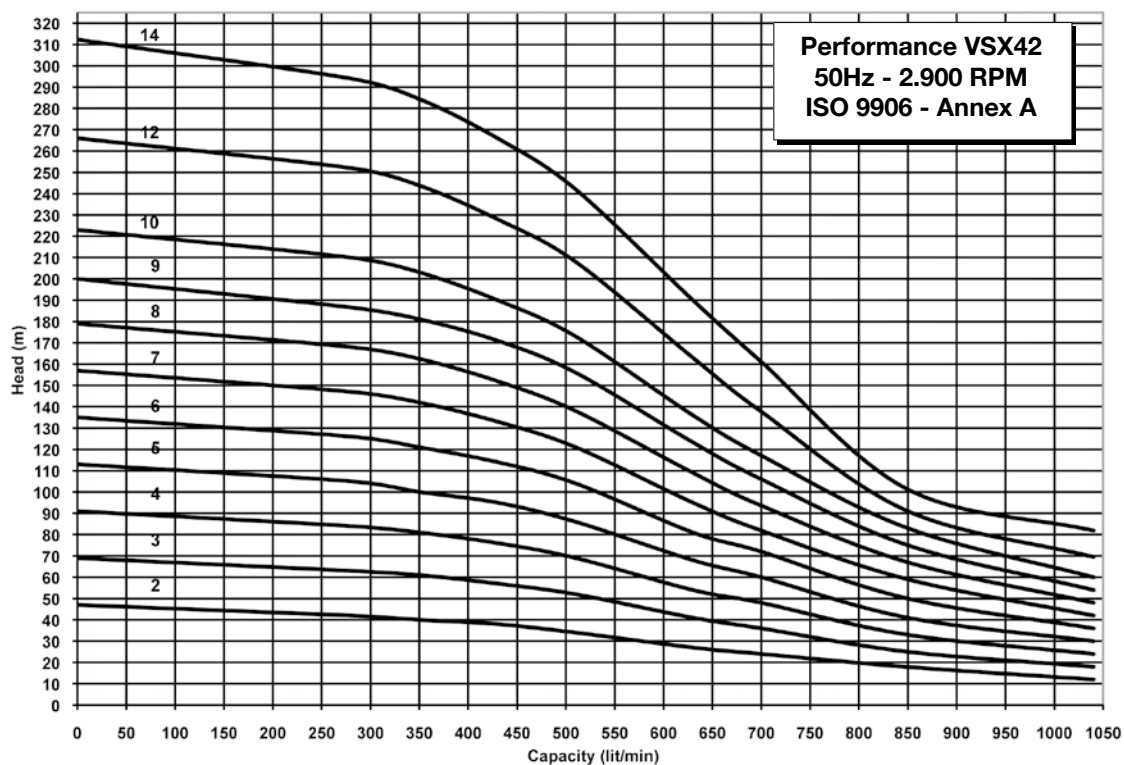
Advised application field

PUMP MODEL
VSX30- 2
VSX30- 3
VSX30- 4
VSX30- 5
VSX30- 6
VSX30- 7
VSX30- 8
VSX30- 10
VSX30- 12
VSX30- 14
VSX30- 16

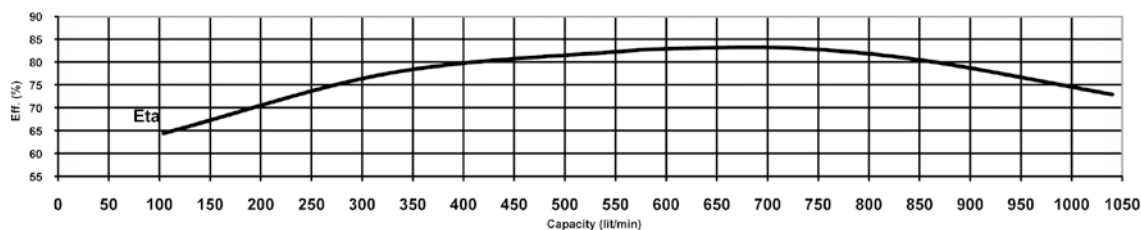
D	L	G"	DN
340	420	3"	80
340	470	3"	80
340	520	3"	80
340	570	3"	80
340	655	3"	80
340	740	3"	80
340	800	3"	80
340	920	3"	80
340	1060	3"	80
340	1200	3"	80
340	1340	3"	80



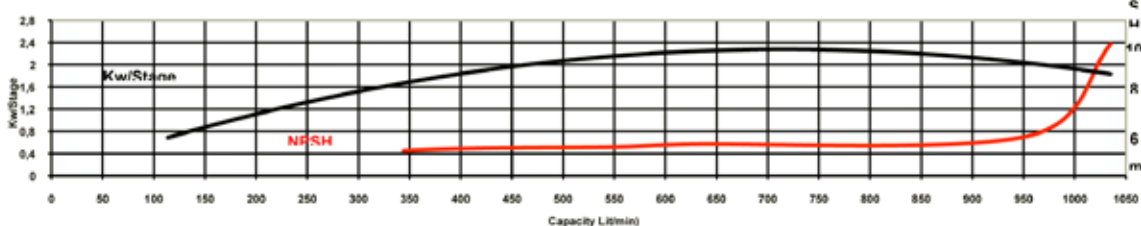
Performance curves **VSX42**



Efficiency curve **VSX42**



NPSH + Kw/stage curves



VSX42



VAMA
VSX42

PUMP MODEL
VSX42- 2
VSX42- 3
VSX42- 4
VSX42- 5
VSX42- 6
VSX42- 7
VSX42- 8
VSX42- 9
VSX42- 10
VSX42- 12
VSX42- 14

POWER	
HP	KW
10	7,5
12,5	9,2
15	11
20	15
20	15
30	22
30	22
40	30
40	30
50	37
50	37

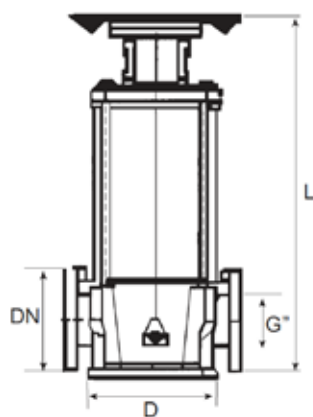
Lit/sec	4,67	5,83	7,17	8,5	10,5	11,7	14,2	17,3
Lit/min	280	350	430	510	630	700	850	1040
CBM/h	16,8	21	25,8	30,6	37,8	42	51	62,4

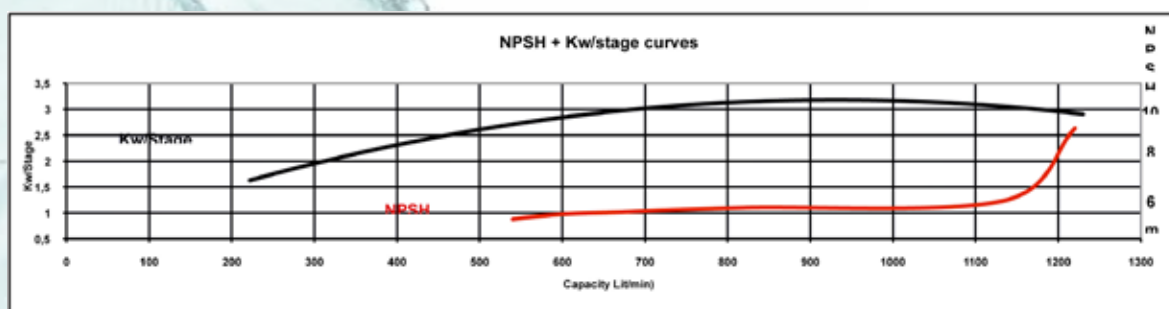
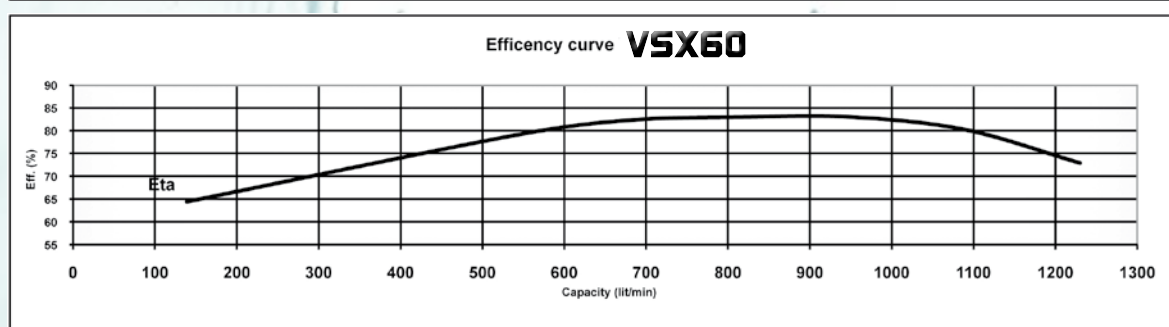
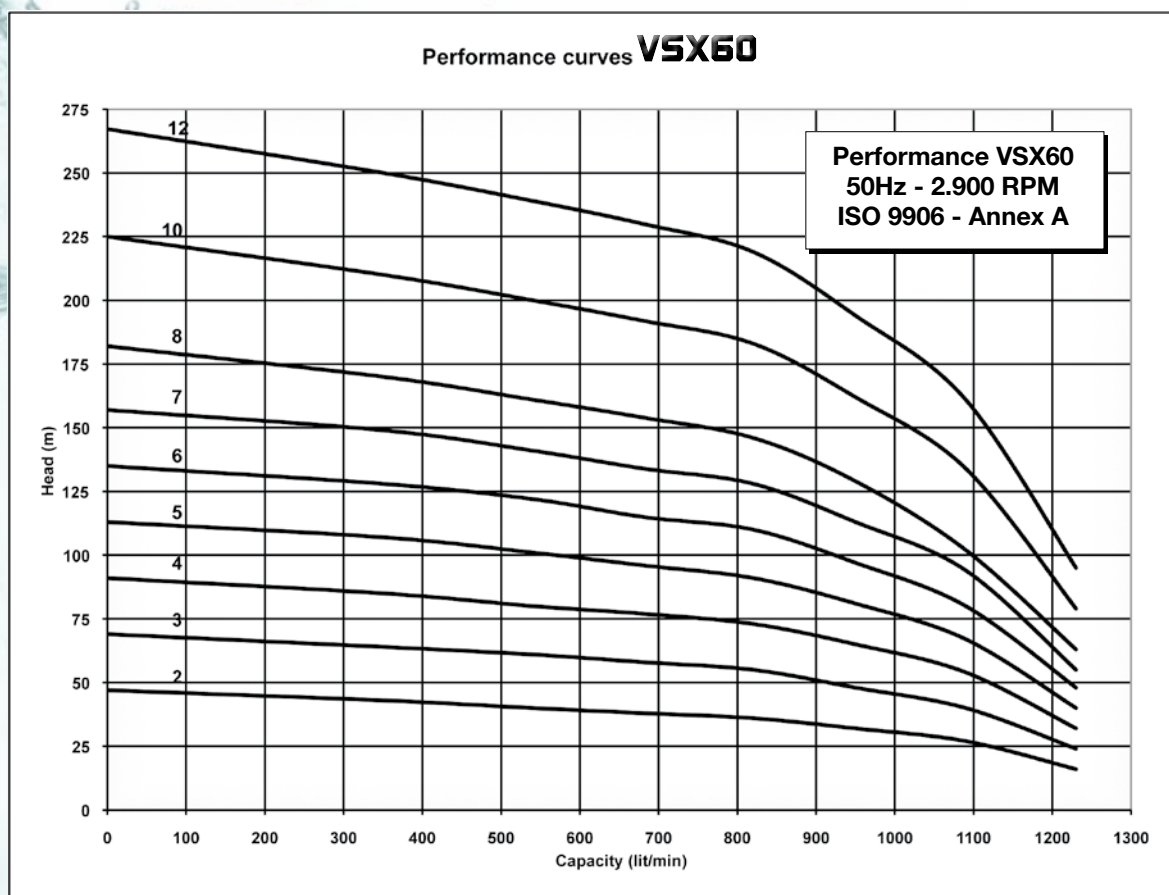
42	40	38	34	27	24	17,9	12
63	61	57	52	41	36	25	18
84	81	76	69	54	48	33	24
105	100	95	86	68	60	41	30
126	121	114	104	81	72	50	36
147	142	133	121	95	83	59	42
168	163	152	138	109	95	67	48
187	181	171	156	123	106	75	54
210	203	190	173	136	117	83	60
252	244	228	208	163	138	91	71
294	284	266	242	190	161	101	83

Advised application field

PUMP MODEL
VSX42- 2
VSX42- 3
VSX42- 4
VSX42- 5
VSX42- 6
VSX42- 7
VSX42- 8
VSX42- 9
VSX42- 10
VSX42- 12
VSX42- 14

D	L	G"	DN
340	480	3"	80
340	560	3"	80
340	640	3"	80
340	720	3"	80
340	800	3"	80
340	910	3"	80
340	1000	3"	80
340	1090	3"	80
340	1180	3"	80
340	1416	3"	80
340	1652	3"	80





VSX60



VSX60

PUMP MODEL
VSX60- 2
VSX60- 3
VSX60- 4
VSX60- 5
VSX60- 6
VSX60- 7
VSX60- 8
VSX60- 10
VSX60- 12

POWER	
HP	KW
10	7,5
15	11
20	15
25	19
30	22
35	26
40	30
50	37
60	40

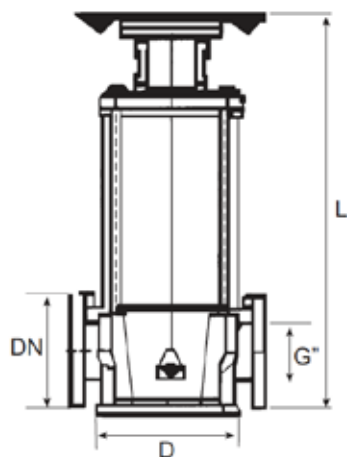
Lit/sec	5,83	9	11,3	13,7	15,8	18,2	20,5
Lit/min	350	540	680	820	950	1090	1230
CBM/h	21	32,4	40,8	49,2	57	65,4	73,8

43	40	38	36	32	27	16
64	61	58	55	48	40	24
85	80	77	73	65	54	32
107	101	96	91	81	67	40
128	122	115	110	97	80	48
149	141	134	128	113	94	55
170	161	154	146	129	102	63
210	200	192	183	162	134	79
250	239	230	219	194	161	95

Advised application field

PUMP MODEL
VSX60- 2
VSX60- 3
VSX60- 4
VSX60- 5
VSX60- 6
VSX60- 7
VSX60- 8
VSX60- 10
VSX60- 12

D	L	G"	DN
340	480	3"	80
340	534	3"	80
340	588	3"	80
340	642	3"	80
340	696	3"	80
340	750	3"	80
340	804	3"	80
340	912	3"	80
340	1020	3"	80







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