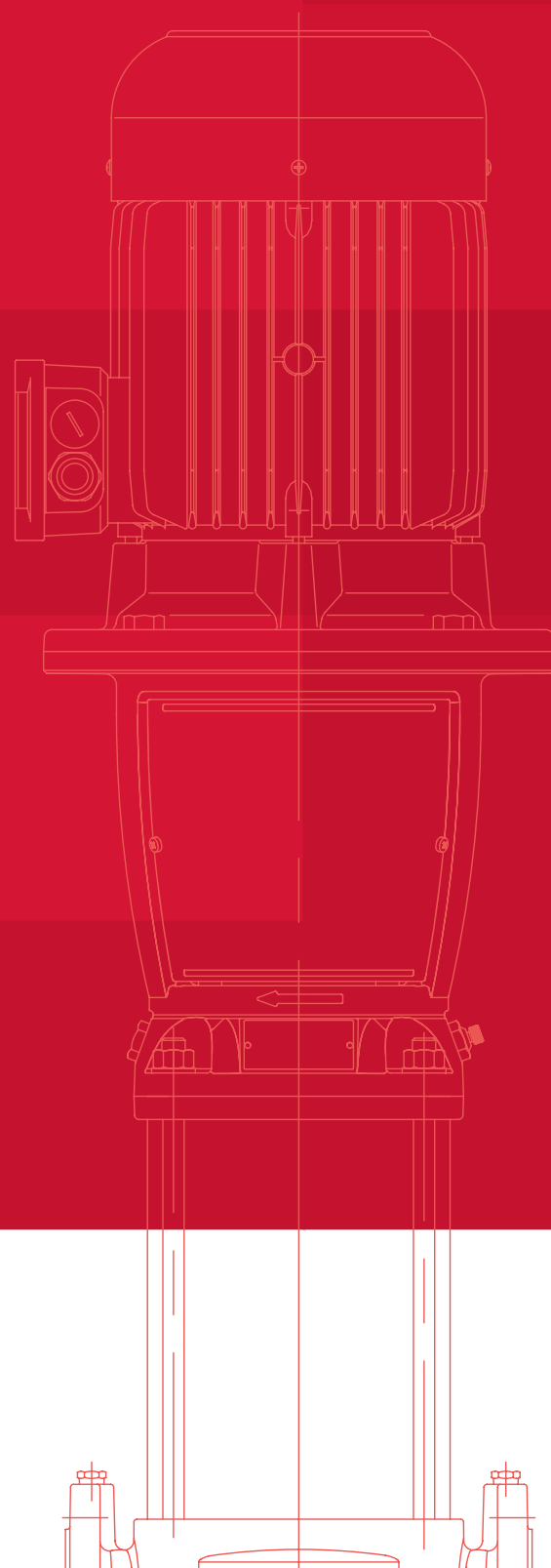


XVM S Series

Technical Guide

Vertical multistage
electric pumps

50 Hz



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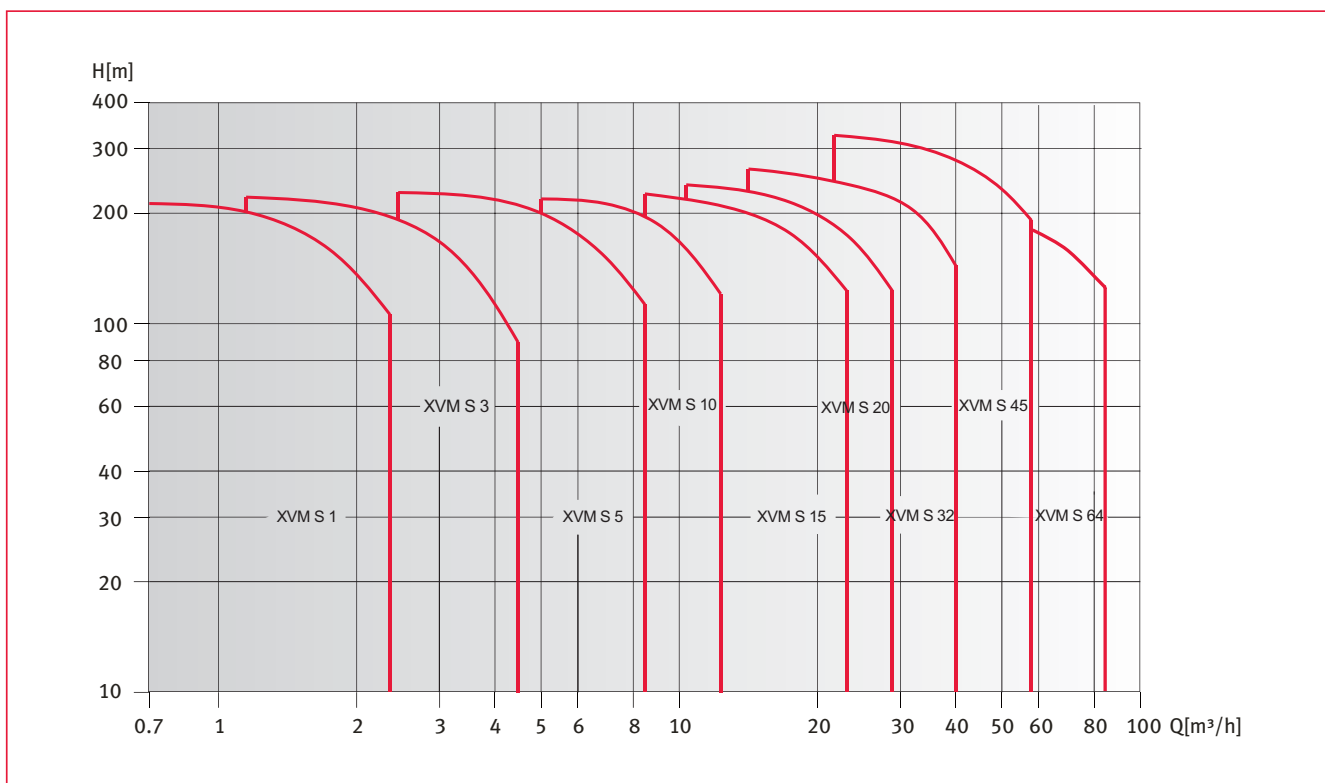
Vertical multistage electric pumps XVM S series

The XVM S pump is a vertical, multistage pump made of stainless steel.

Market sectors: Civil, agricultural, light industry, water treatment, heating and air conditioning.

- » Handling of water, free of suspended solids, in the civil, industrial and agricultural sectors.
- » Pressure boosting and water supply systems.
- » Irrigation systems.
- » Wash systems.
- » Water treatment plants.
- » Handling of moderately aggressive liquids, demineralized water, water and glycol, etc.
- » Circulation of hot and cold water for heating, cooling and conditioning systems.
- » Boiler feed.

Field of application → XVM S at 2900 rpm



Specifications

- The **XVM S** is a non-self-priming vertical multistage pump
- The liquid end, located between the upper cover and the pump casing, is held in place by tie rods.
- The pump casing is available with different configurations and connection types.

Technical data

- Delivery: up to 85 m³/h.
- Head: up to 330 m.
- Temperature of pumped liquid:
-15°C to +120°C standard version.

Hydraulic assembly specifications

- Liquid end made entirely of stainless steel in the 1-3-5-10-15-20-32-45-64 m³/h standard version.
- Materials are suitable for handling potable water

Electrical and motor specifications

- Squirrel cage motor with short circuit rings, closed aluminium box and external ventilation.
- Serial motors with powers up to 45 kW (inclusive) in the 2-poles version.
- The surface motors have efficiency values that fall within the range normally referred to as efficiency class 2. In Eff1 option.
- IP 55 protection.
- Class F insulation.

XVM S 1,3,5,10,15,20,32,45,64

- Vertical multistage centrifugal pump. All metal parts in contact with the pumped liquid are made of stainless steel.
- The following versions are available:
 - F: round flanges, in-line delivery and suction ports, AISI 304.
 - N: round flanges, in-line delivery and suction ports, AISI 316.
- Versions with round flanges that can be coupled to counter flanges, according to EN 1092.
- Round flanges made of zinc-plated steel are standard supply for the F versions.
- Round counter flanges made of stainless steel are standard supply for the N version.
- Easy maintenance. No special tools required for assembly or disassembly.



XVM S

	XVMS								
	1	3	5	10	15	20	32	45	64
Max efficiency flow (m ³ /h)	1	3	5	10	15	20	32	45	64
Flow range (m ³ /h)	0.7-2.4	1.2-4.5	2.5-8.5	5-13	8.5-23.5	10.5-29	15-40	22-58	30-85
Maximum pressure (bar)	21.5	23	24	21.5	23	24.3	27.5	33	21.8
Motor Power (kW)	0.37-2.2	0.37-3	0.37-5.5	0.37-7.5	1.1-15	1.1-18.5	1.5-30	3-45	4-45
Standard temperature (°C)	-15 to +120								
Flange	DN 25/ DN 32/	DN 25/ DN 32/	DN 25/ DN 32/	DN 40	DN 50	DN 50	DN 65	DN 80	DN 100
Victaulic-connections	R1 1/4 DN 32	R1 1/4 DN 32	R1 1/4 DN 32	R2 DN 50	R2 DN 50	R2 DN 50	N/A	N/A	N/A

Maximum operating and inlet pressures

Stages	Maximum Operating Pressure	Stages	Maximum Inlet Pressure
XVM S 1			
2-36	25bar	2-36	10bar
XVM S 3			
2-36	25bar	2-29 31-36	10bar 15bar
XVM S 5			
2-36	25bar	2-16 18-36	10bar 15bar
XVM S 10			
1-16 17-22	16bar 25bar	1-6 7-22	8bar 10bar
XVM S 15			
1-10 12-17	16bar 25bar	1-3 4-17	8bar 10bar
XVM S 20			
1-10 12-17	16bar 25bar	1-3 4-17	8bar 10bar
XVM S 32			
(1-1)-7 (8-2)-14	16bar 30bar	(1-1)-4 (5-2)-10 (11-2)-14	4bar 10bar 15bar
XVM S 45			
(1-1)-5 (6-2)-11 (12-2)-(13-2)	16bar 30bar 33bar	(1-1)-2 (3-2)-5 (6-2)-(13-2)	4bar 10bar 15bar
XVM S 64			
(1-1)-5 (6-2)-(8-1)	16bar 30bar	(1-1)-(2-2) (2-1)-(4-2) (4-1)-(8-1)	4bar 10bar 15bar

Rule to follow: The inlet pressure + the pressure against a closed valve < Max. Operating pressure.

Water supply and pressure boosting

- Pressure boosting in buildings, hotels, residential complexes.
- Pressure booster stations, supply of water networks.
- Booster packages.

Water treatment

- Ultrafiltration systems.
- Reverse osmosis systems.
- Water softeners and de-mineralization.
- Distillation systems.
- Filtration.

Light industry

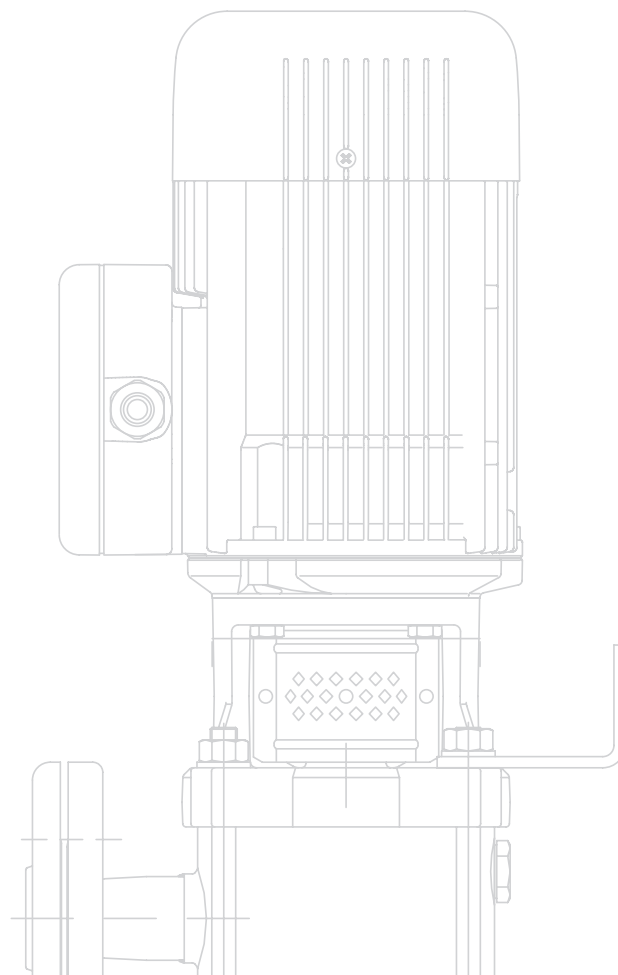
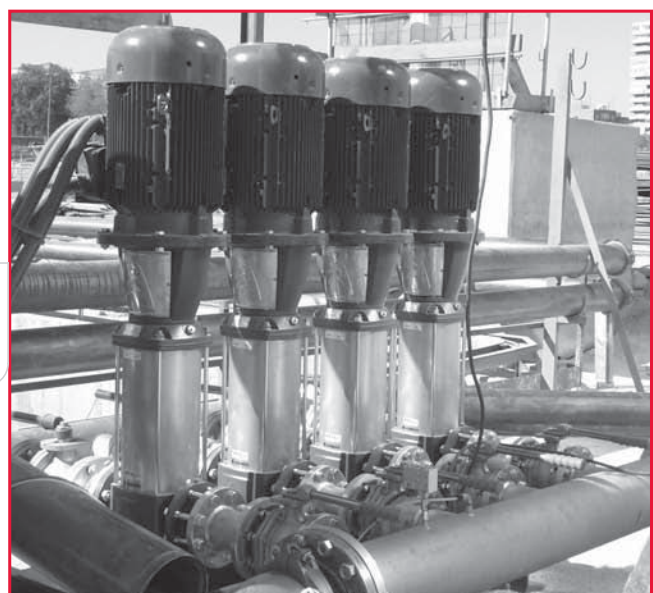
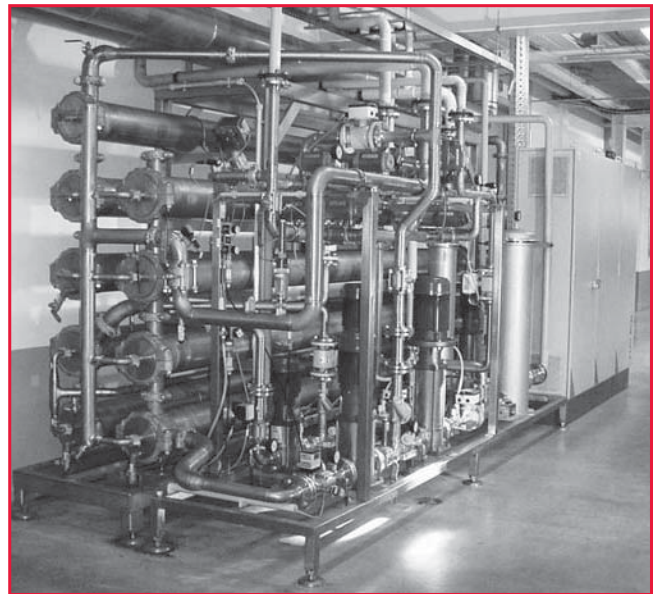
- Washing and cleaning plants.
- Firefighting system pumps.

Irrigation and agriculture

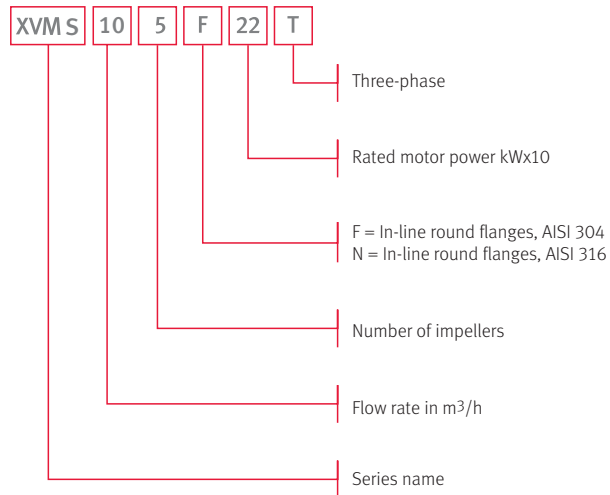
- Greenhouses.
- Humidifiers.
- Sprinkler irrigation.

Heating, ventilation and air conditioning

- Cooling towers and facilities.
- Refrigerators.
- Induction heating.
- Heat exchangers.
- Boilers.



Identification data

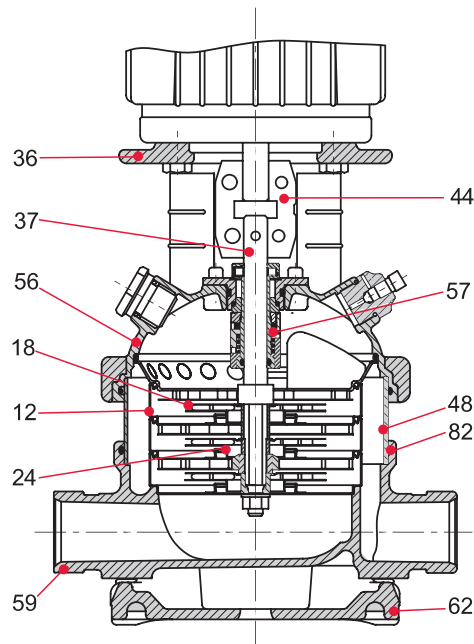


Nominal data

Type	1				4
Model	2				4
f	Hz	P2	6	6	
n	min ⁻¹	H _{max}	6	6	
Q	m ³ /h	H	8	8	
p _{max} /t _{max}	bar/°C	10	10	10	
Serial No.	11				
ESPA Bombas Eléctricas S.A. 17820 Banyoles Spain		Made in CEE www.espa.com		12	

- 1. Pump Type – Seal Type
- 2. Pump Model
- 3. Frequency
- 4. Rated Power
- 5. Speed
- 6. Maximum Head
- 7. Capacity
- 8. Head Range
- 9. Maximum Operating Pressure
- 10. Rotating Direction
- 11. Serial number
- 12. Year of manufacture

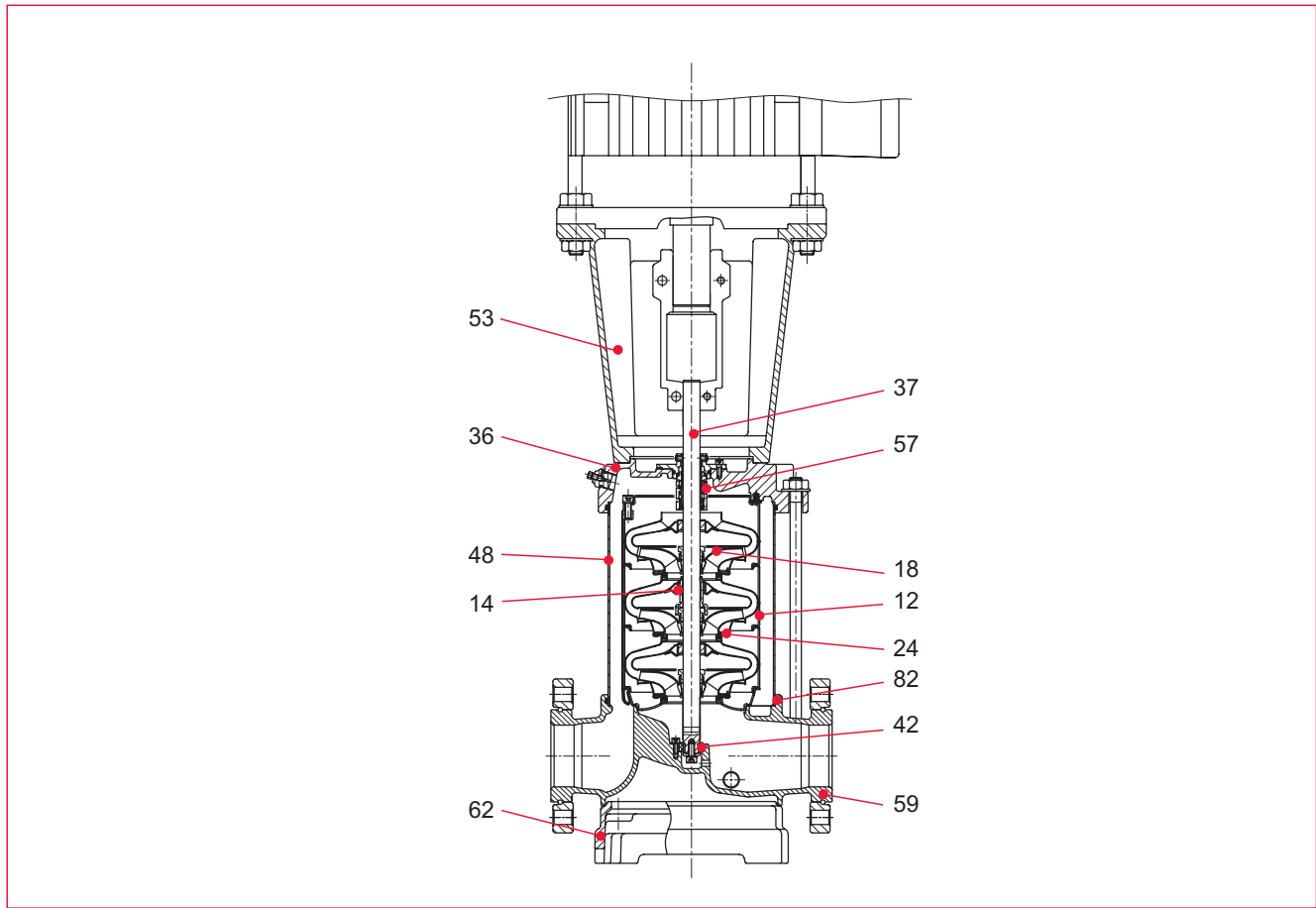
XVM S 1, 3, 5, 10, 15, 20



Construction and Material

Pos.	Name	Material	XVM S 1,3,5,10,15,20 "F"		XVM S 1,3,5,10,15,20 "N"	
			Standard		Standard	
			Europe	USA	Europe	USA
36	Pump head	Cast Iron	EN-GJS-450-10	ASTM 65-45-12	EN-GJS-450-10	ASTM 65-45-12
56	Pump head cover	Stainless steel	1.4301	AISI 304	1.4401	AISI 316
18	Impeller	Stainless steel	1.4301	AISI 304	1.4401	AISI 316
37	Shaft	Stainless steel	1.4057	AISI 431	1.4401	AISI 316
48	Outer Sleeve	Stainless steel	1.4301	AISI 304	1.4401	AISI 316
82	O-ring for outer sleeve	EPDM				
12	Chamber	Stainless steel	1.4301	AISI 304	1.4401	AISI 316
24	Neckring	PTEE				
59	Base Base	Cast Iron Stainless steel	1.4301	AISI 304	N/A 1.4401	AISI 316
62	Base plate	Cast Iron	EN-GJL-200	ASTM 25B	EN-GJL-200	ASTM 25B
44	Coupling	Fe-Cu-C	SINT C11	MPIFFC0525	SINT C11	MPIFFC0525
57	Mechanical seal	Cartridge type				

XVM S 32, 45, 64



Construction and Material

Pos.	Name	Material	XVM S 32,45,64 "F"		XVM S 32,45,64 "N"	
			Standard		Standard	
			Europe	USA	Europe	USA
36	Pump head	Cast Iron Stainless steel	1.4301	AISI 304	1.4401	AISI 316
53	Motor Bracket	Cast Iron	EN-GJL-250	ASTM 35B	EN-GJL-250	ASTM 35B
18	Impeller	Stainless steel	1.4301	AISI 304	1.4401	AISI 316
37	Shaft	Stainless steel	1.4057	AISI 431	1.4401	AISI 316
48	Outer Sleeve	Stainless steel	1.4301	AISI 304	1.4401	AISI 316
82	O-ring for outer sleeve	EPDM				
12	Chamber	Stainless steel	1.4301	AISI 304	1.4401	AISI 316
24	Neckring	Carbon Fiber + POB + PTFE				
59	Base	Cast Iron		N/A		
	Base	Stainless steel	1.4301	AISI 304	1.4401	AISI 316
62	Base plate	Cast Iron	EN-GJL-250	ASTM 35B	EN-GJL-250	ASTM 35B
57	Mechanical seal	Cartridge type				
14	Bearing ring		Bronze		POB + Graphite + PTFE	
42	Bottom bearing ring	Tungsten carbide/ Tungsten carbide				

Motor Data

Motor Type				Nominal current in [A]				
HP	KW	Pole	Flange	Frame	3~220 V	3~240 V	3~380 V	3~415 V
0.5	0.37	2	B14	71	1.7	2	1.1	1.3
0.75	0.55			71	2.5	2.8	1.5	1.7
1.0	0.75			80	3.5	3.9	2.1	2.3
1.5	1.1			90S	4.4	4.7	2.7	2.9
2.0	1.5			90L	5.9	5.7	3.4	3.3
3.0	2.2			90L	8.5	8	4.9	4.6
4.0	3.0			100L	11.4	11.4	6.6	6.6
5.5	4.0			112M	15.4	16.3	8.9	9.4
7.5	5.5			132S	20.8	20.8	12	12
10.0	7.5		132M	27.4	26.7	15.8	15.4	
15	11		160M			21.2	20	
20.0	15.0		160M			27.7	25.5	
25	18.5		160L			35.2	32.4	
30	22		180M			41.3	38.2	
40	30		180L			54.2	50.4	
50	37		200L			70.8	65.6	
60	45		200L			83.1	79.2	

Mechanical Seal

- Standard Cartridge type mechanical seal made of Silicon Carbide/Silicon Carbide/EPDM or Viton.
- Based on the type of application, alternative materials are available for the seal and the elastomers.
- The cartridge type mechanical seal can be replaced in minutes without special tools and without dismantling the pump.



List of Materials

Q: Silicon carbide	E: EPDM
U: Tungsten carbide	V: Viton
B: Carbon	

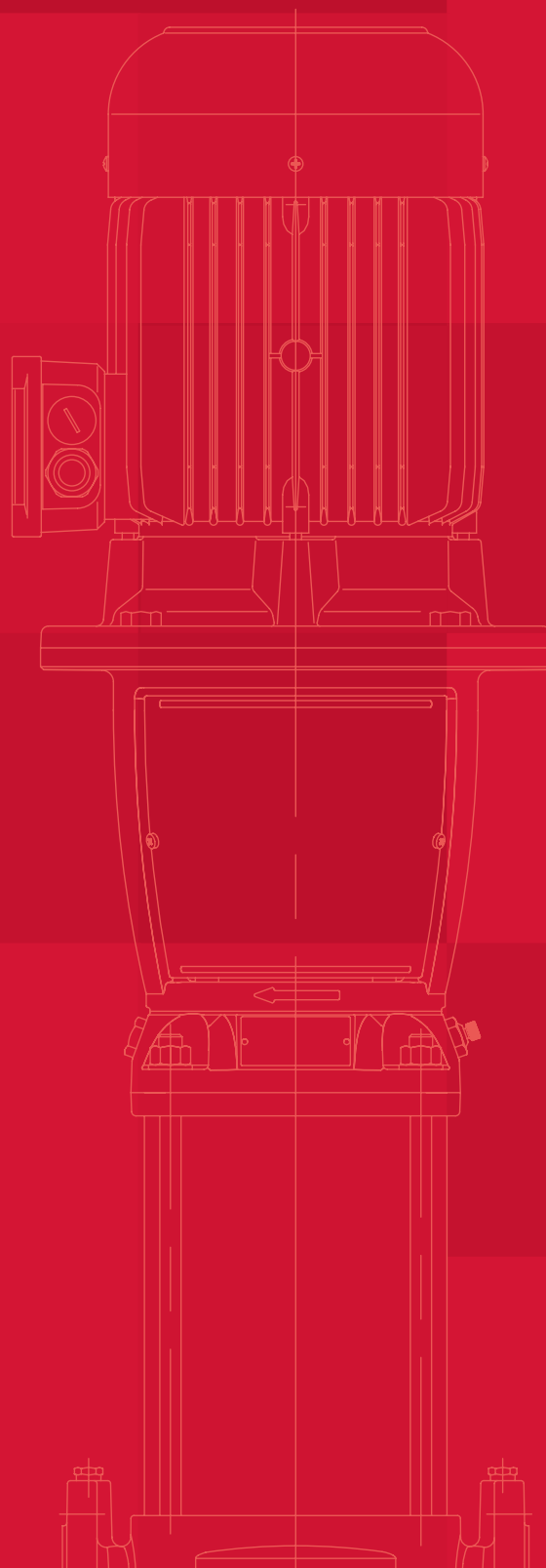
Type of Seal

Seal Type	XVM S 1/3/5/10/15/20/32/45/64
Mechanical Seals	
S: Cartridge seal	•
QQ	•
UU	Optional
QB	Optional
UB	Optional
Seals	
E	•
V	•

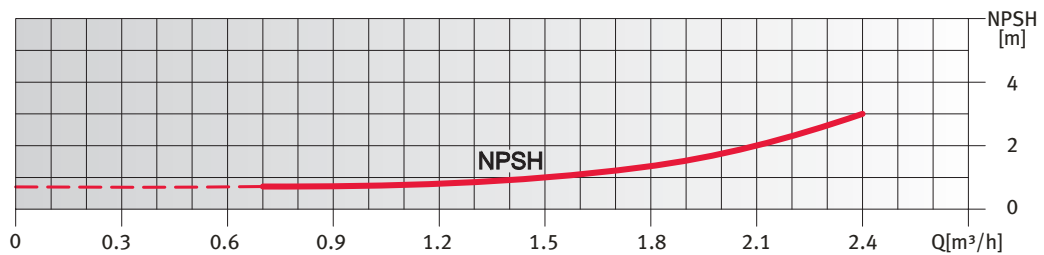
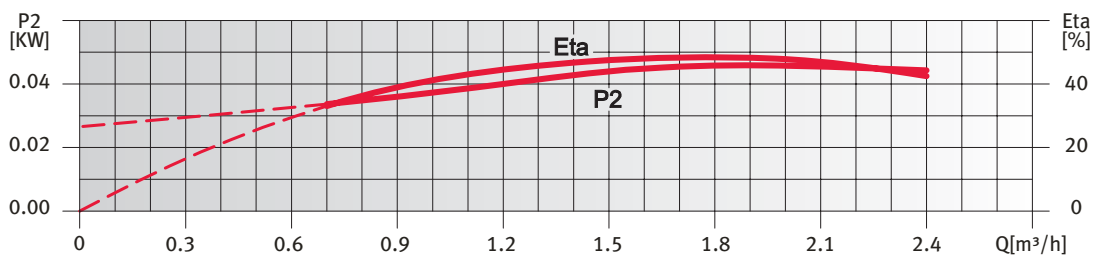
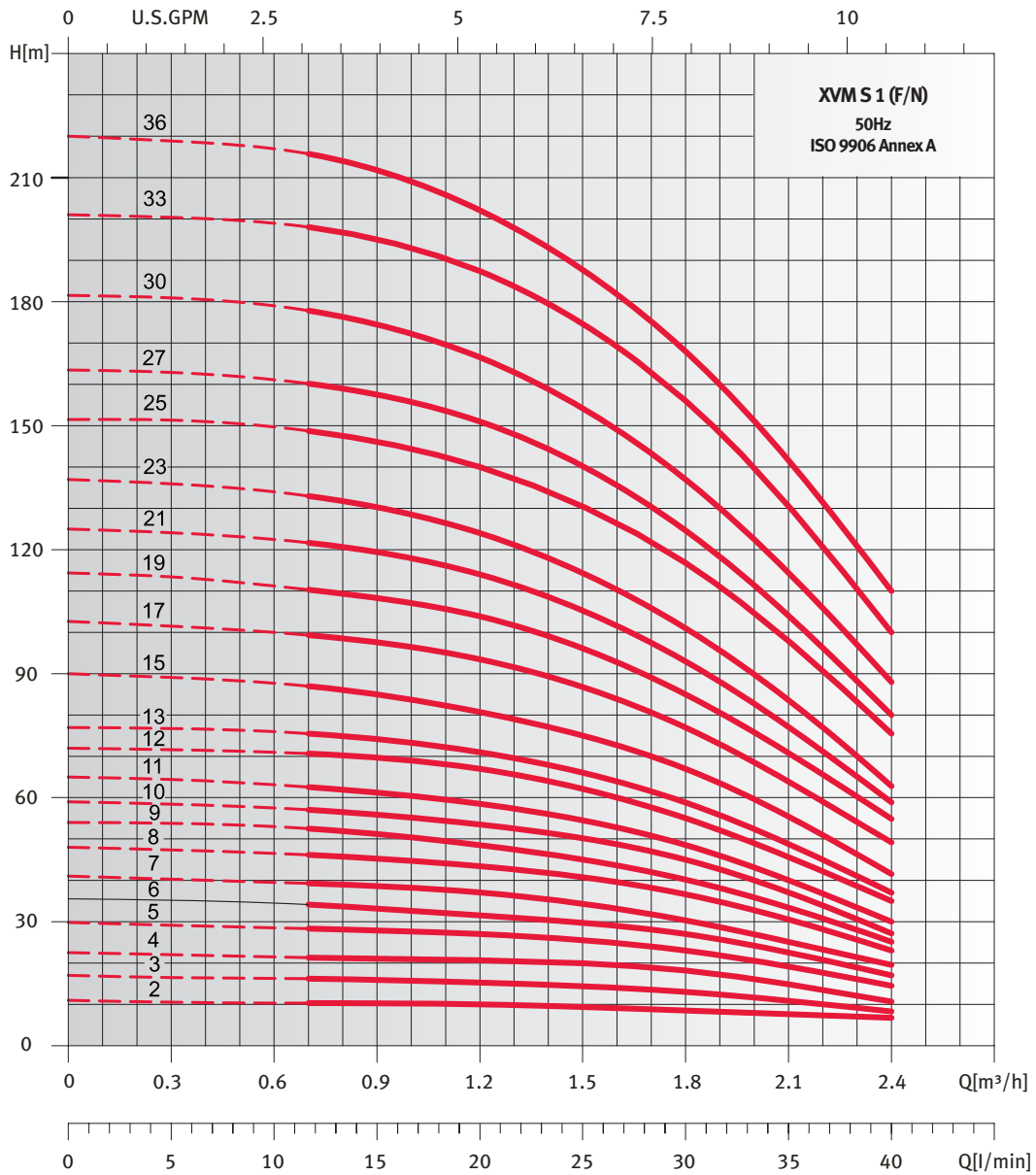
XVM S Series

Operating dimensions,
weights and curves

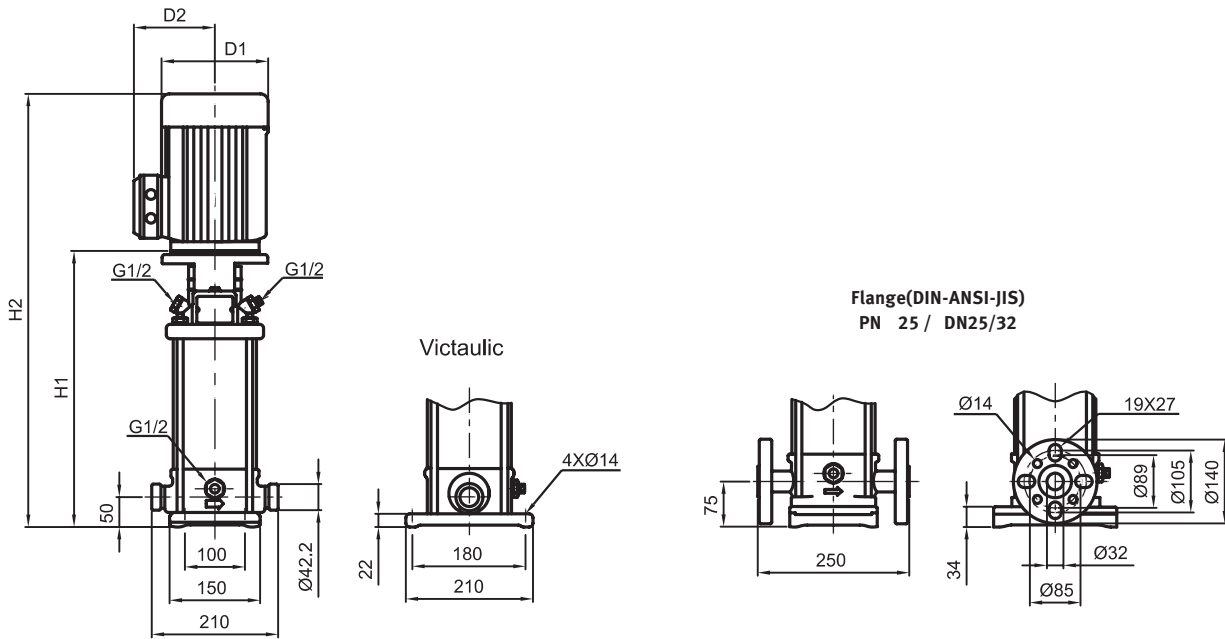
50 Hz



XVMS1

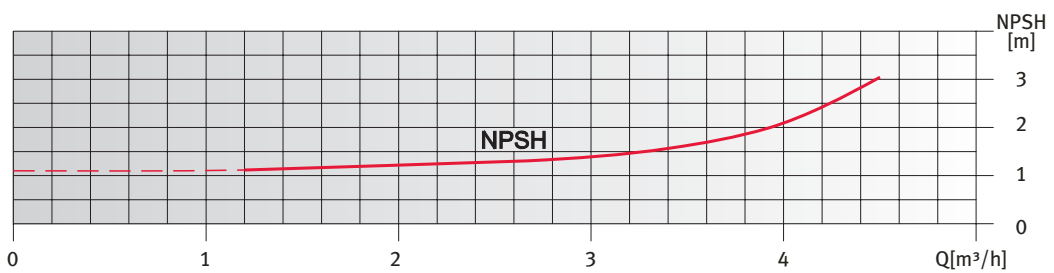
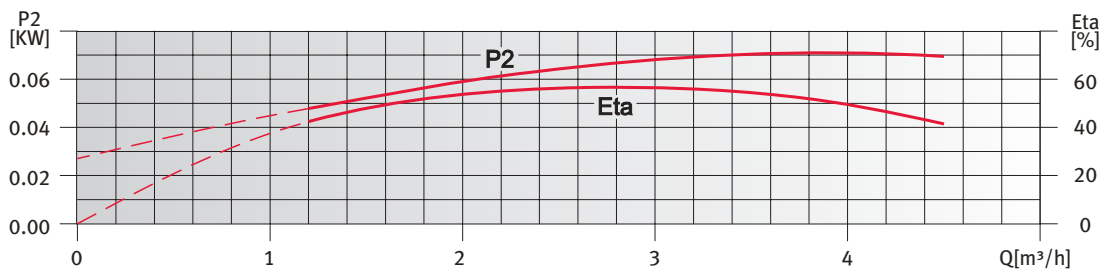
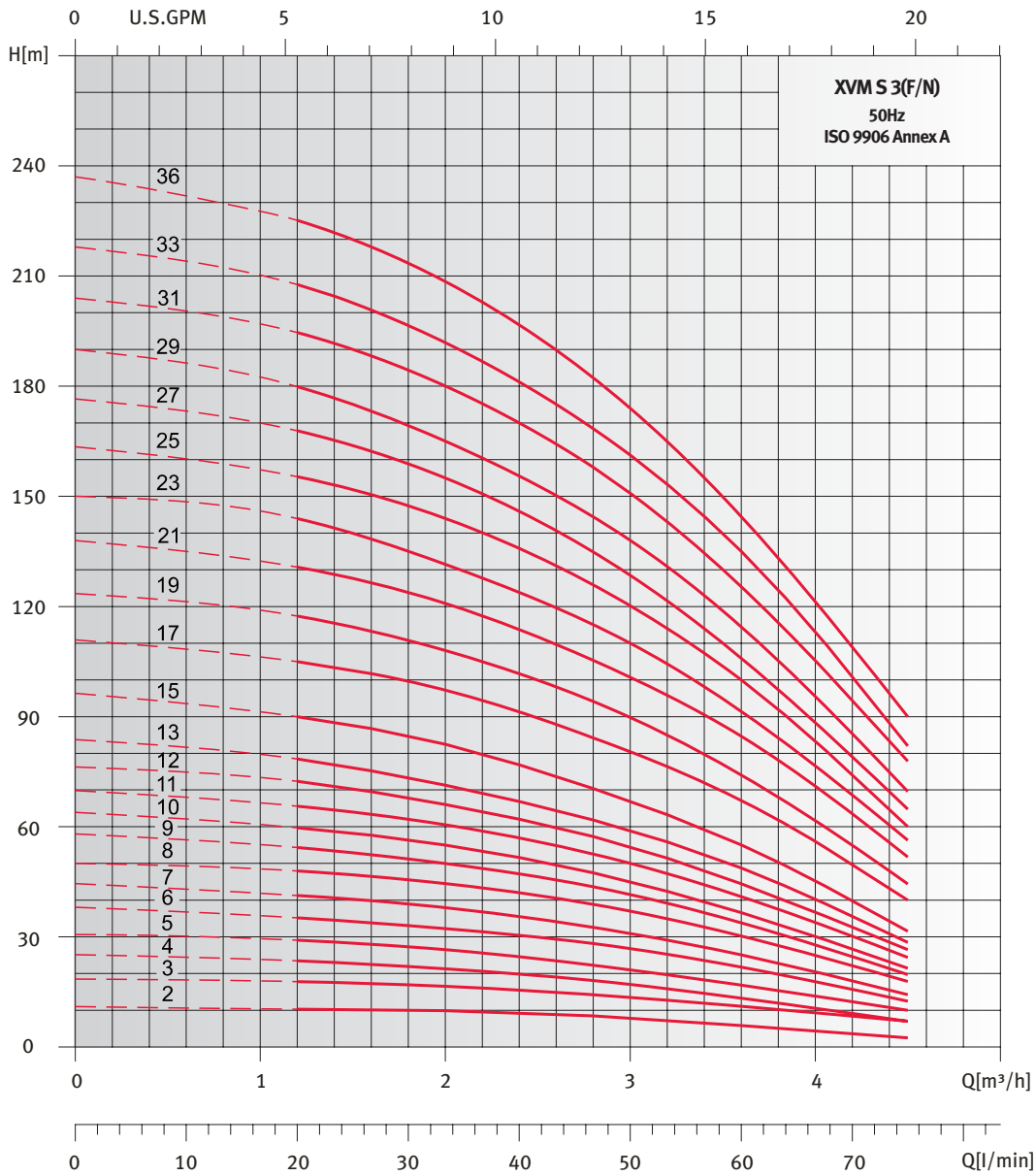


Dimensions and weights-XVM S 1

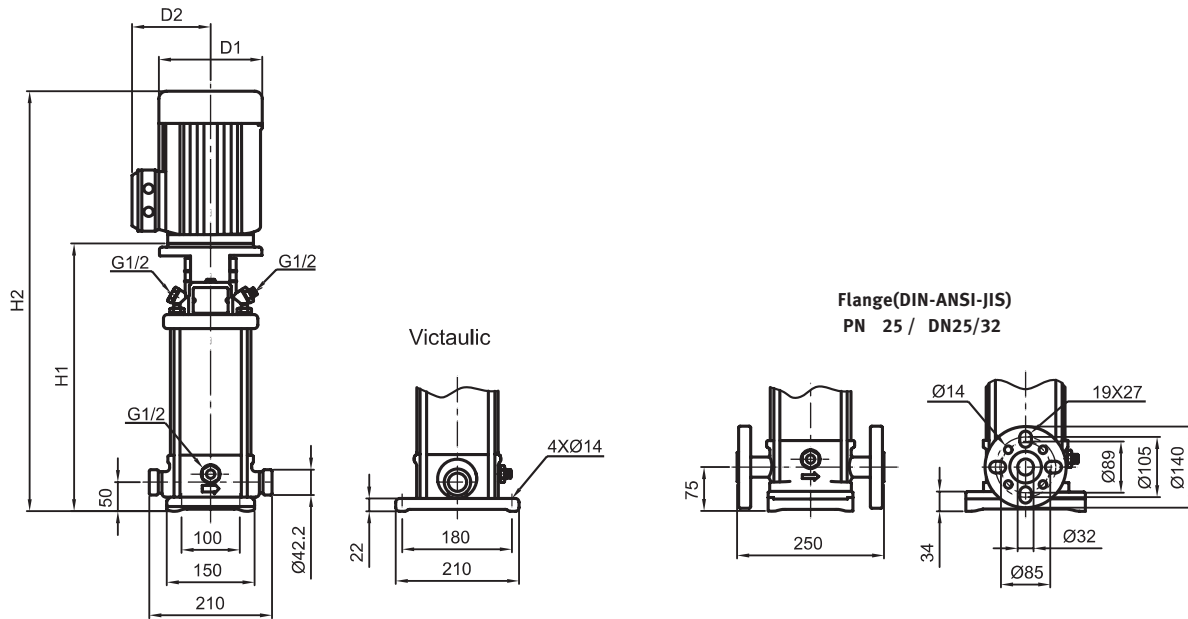


Pump type	Motor P2 [KW]	XVM S						Net weight [kg]	
		Victaulic		DIN flange		D1	D2	Victaulic	DIN flange
		H1	H2	H1	H2				
XVM S 1-2	0.37	257	448	282	473	141	109	16	20
XVM S 1-3	0.37	257	448	282	473	141	109	16	21
XVM S 1-4	0.37	275	466	300	491	141	109	17	21
XVM S 1-5	0.37	293	484	318	509	141	109	17	12
XVM S 1-6	0.37	311	502	336	527	141	109	18	22
XVM S 1-7	0.37	329	520	354	545	141	109	18	22
XVM S 1-8	0.55	347	538	372	563	141	109	19	23
XVM S 1-9	0.55	365	556	390	581	141	109	20	24
XVM S 1-10	0.55	383	574	408	599	141	109	20	24
XVM S 1-11	0.55	401	592	426	617	141	109	20	24
XVM S 1-12	0.75	425	656	450	681	141	109	23	27
XVM S 1-13	0.75	443	674	468	699	141	109	23	28
XVM S 1-15	0.75	479	710	504	735	141	109	24	28
XVM S 1-17	1.1	515	746	540	771	141	109	27	31
XVM S 1-19	1.1	551	782	576	807	141	109	28	32
XVM S 1-21	1.1	587	818	612	843	141	109	29	33
XVM S 1-23	1.1	623	854	648	879	141	109	30	34
XVM S 1-25	1.5	675	950	700	975	175	140	37.5	41.0
XVM S 1-27	1.5	711	986	736	1011	175	140	38.2	41.8
XVM S 1-30	1.5	765	1040	790	1065	175	140	39.4	42.9
XVM S 1-33	2.2	819	1094	844	1119	175	140	42.5	46.0
XVM S 1-36	2.2	873	1148	898	1173	175	140	43.6	47.2

XVM S3

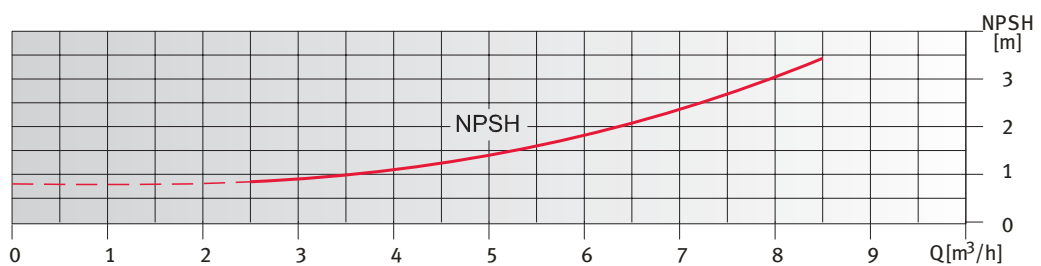
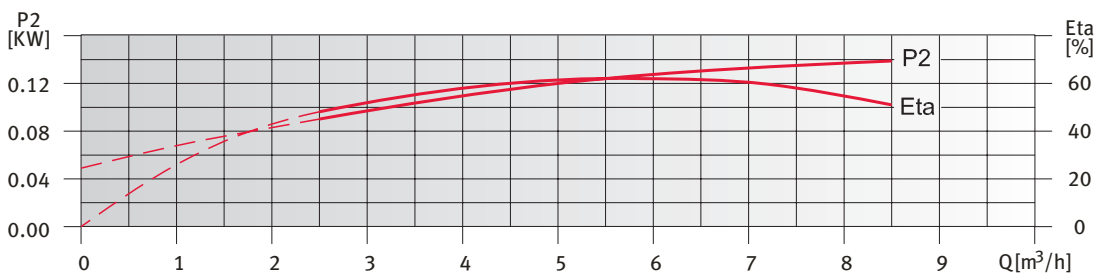
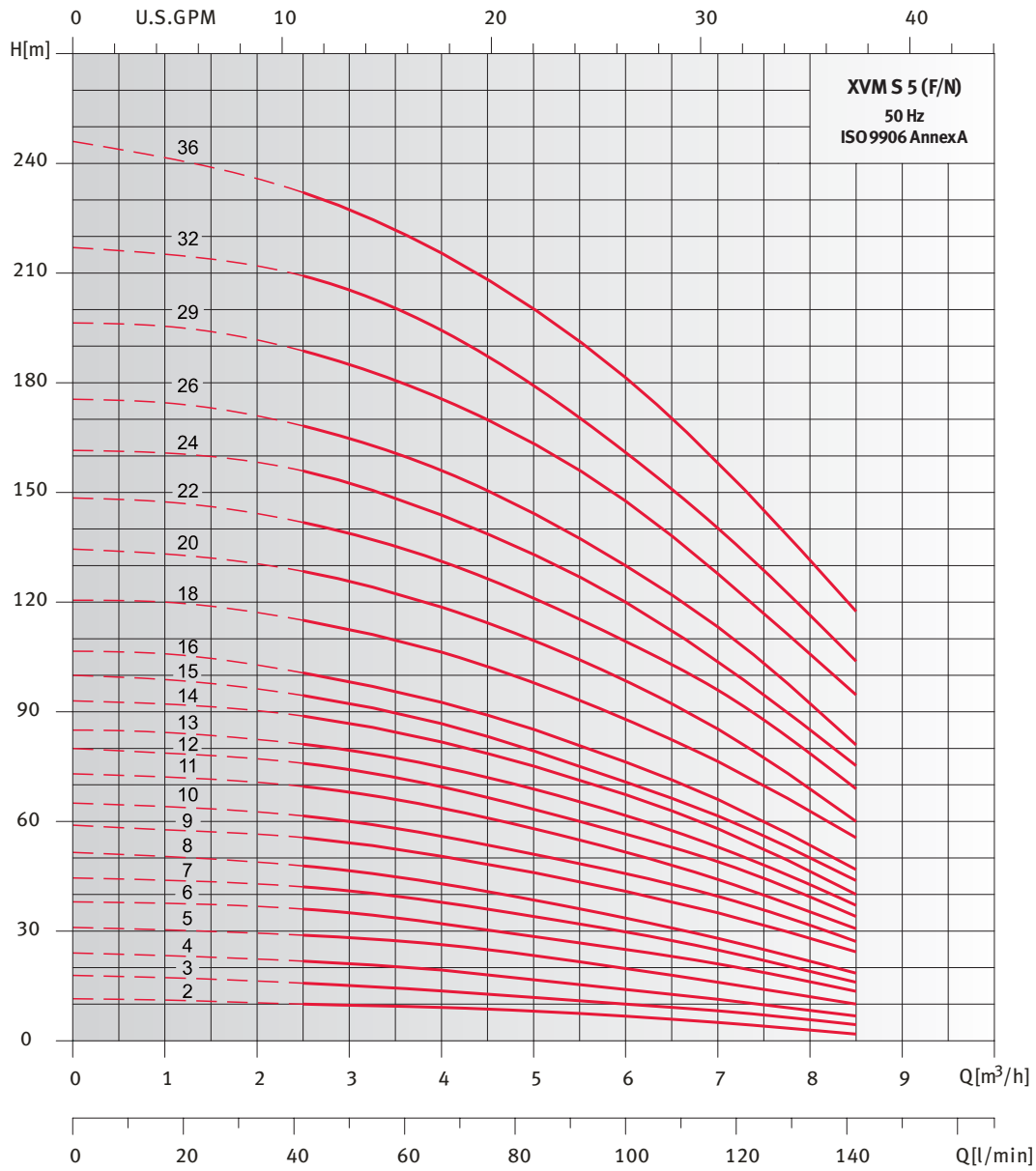


Dimensions and weights-XVM S 3

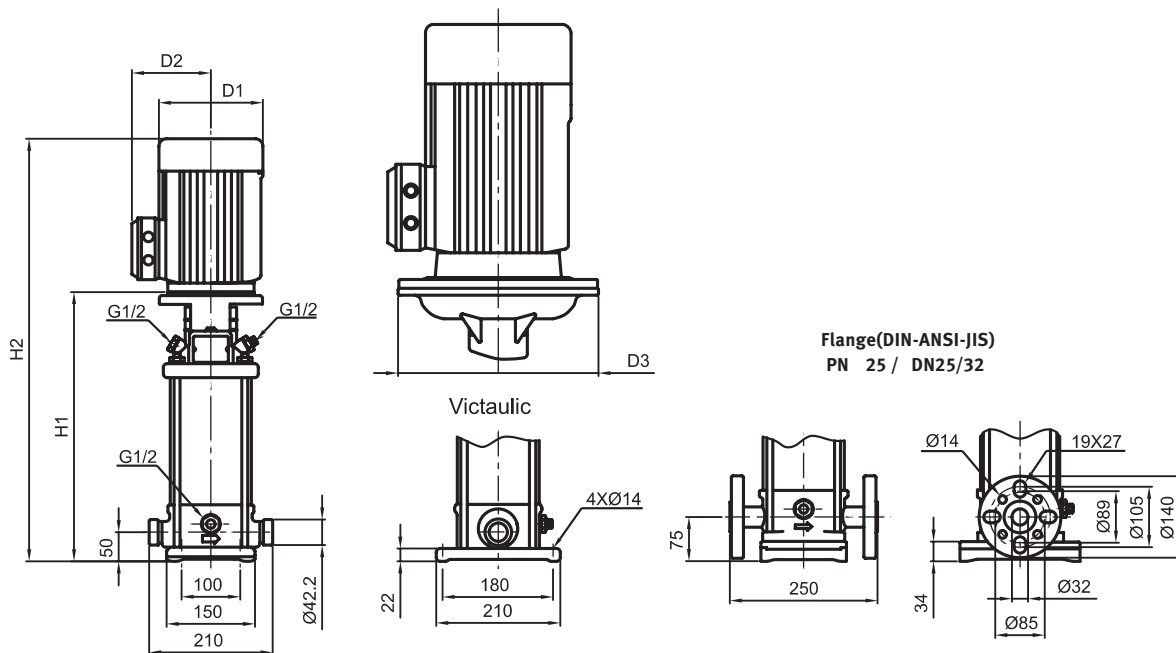


Pump type	Motor P ₂ [KW]	XVM S							
		Victaulic		Dimension [mm] DIN flange		D1	D2	Net weight [kg]	
		H1	H2	H1	H2			Victaulic	DIN flange
XVM S 3-2	0.37	257	448	282	473	141	109	16	19
XVM S 3-3	0.37	257	448	282	473	141	109	16	19
XVM S 3-4	0.37	275	466	300	491	141	109	17	19
XVM S 3-5	0.37	293	484	318	509	141	109	17	20
XVM S 3-6	0.55	311	502	336	527	141	109	18	21
XVM S 3-7	0.55	329	520	354	545	141	109	19	21
XVM S 3-8	0.75	353	584	378	609	141	109	21	24
XVM S 3-9	0.75	371	602	396	627	141	109	22	24
XVM S 3-10	0.75	389	620	414	645	141	109	22	25
XVM S 3-11	1.1	407	638	432	663	141	109	25	27
XVM S 3-12	1.1	425	656	450	681	141	109	25	28
XVM S 3-13	1.1	443	674	468	699	141	109	26	28
XVM S 3-15	1.1	479	710	504	735	141	109	26	29
XVM S 3-17	1.5	531	806	556	831	175	140	34.5	38.1
XVM S 3-19	1.5	567	842	592	867	175	140	35.3	38.8
XVM S 3-21	2.2	603	878	628	903	175	140	38.0	41.6
XVM S 3-23	2.2	639	914	664	939	175	140	38.8	42.3
XVM S 3-25	2.2	675	950	700	975	175	140	39.5	43.1
XVM S 3-27	2.2	711	986	736	1011	175	140	40.3	43.8
XVM S 3-29	2.2	747	1022	772	1047	175	140	41.0	44.6
XVM S 3-31	3	787	1107	812	1132	196	148	48.2	51.8
XVM S 3-33	3	823	1143	848	1168	196	148	49.1	52.5
XVM S 3-36	3	877	1197	902	1222	196	148	50.1	53.7

XVM S 5

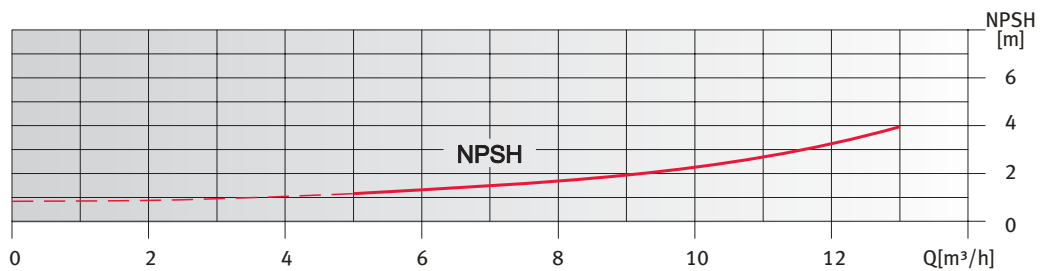
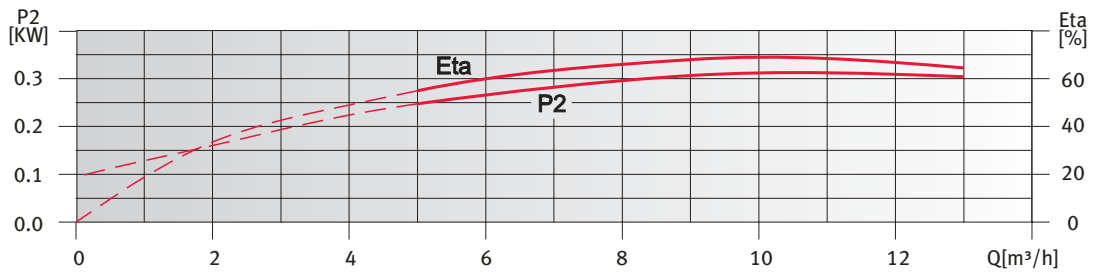
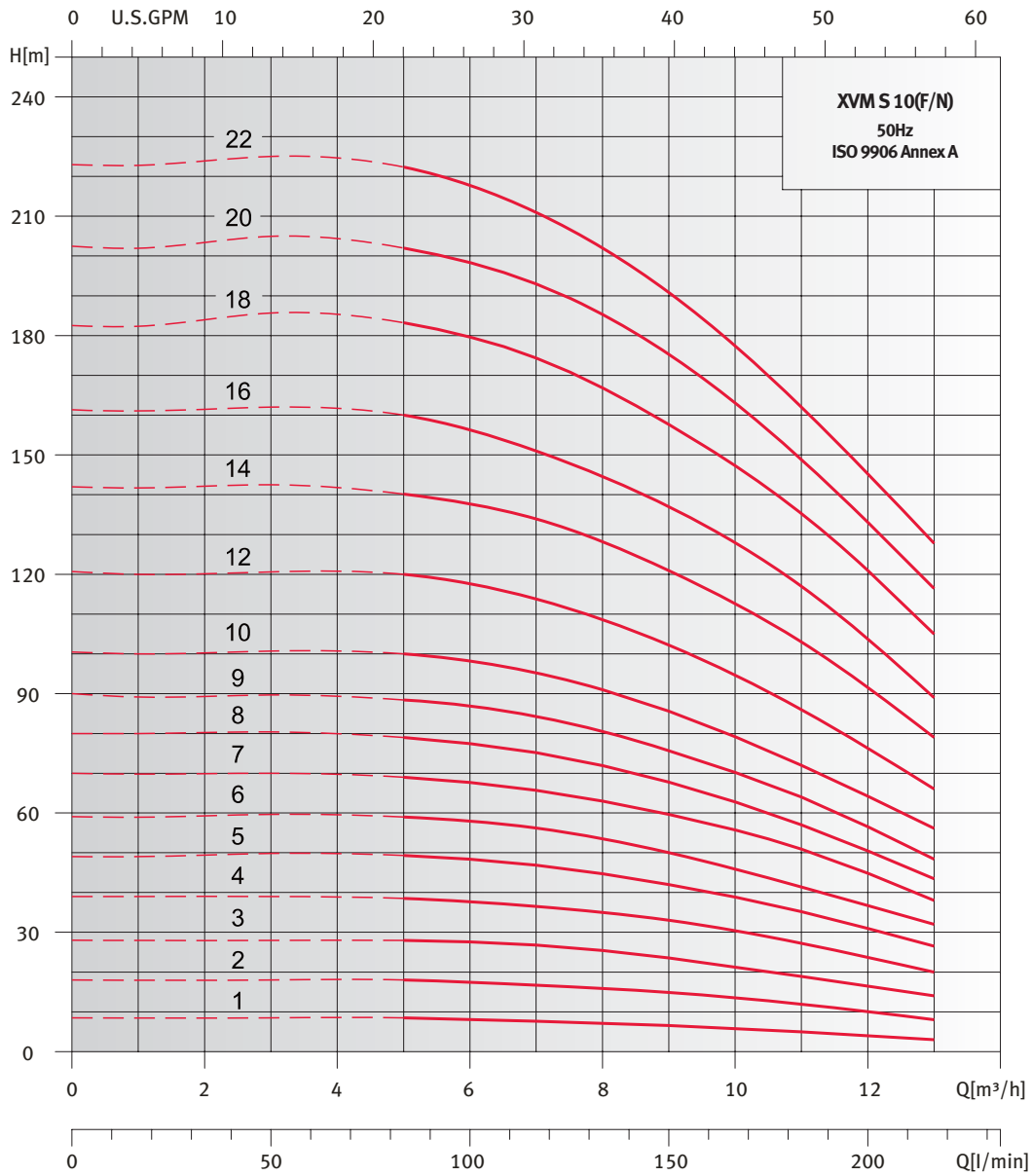


Dimensions and weights-XVM S 5

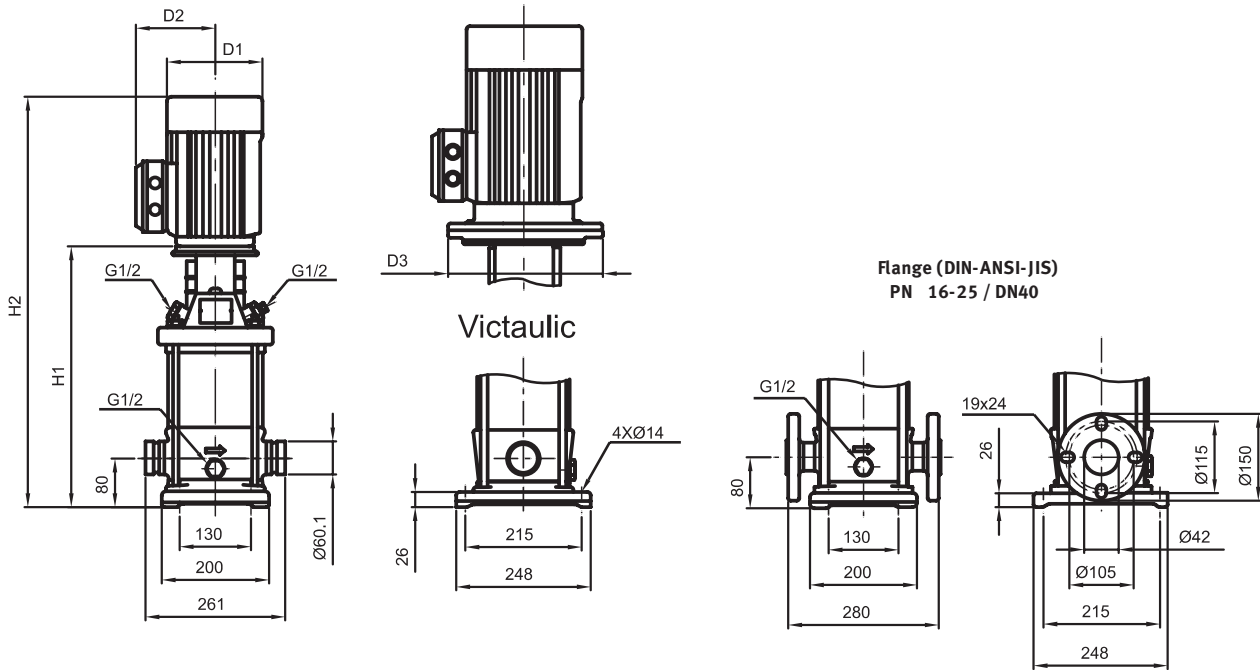


Pump type	Motor P ₂ [KW]	XVM S Dimension [mm]							Net weight [kg]	
		Victaulic		DIN flange		D1	D2	D3	Victaulic	DIN flange
		H1	H2	H1	H2					
XVM S 5-2	0.37	257	448	282	473	141	109		16	21
XVM S 5-3	0.55	284	475	309	500	141	109		18	22
XVM S 5-4	0.55	311	502	336	527	141	109		18	22
XVM S 5-5	0.75	344	575	369	600	141	109		21	25
XVM S 5-6	1.1	371	602	396	627	141	109		24	28
XVM S 5-7	1.1	398	629	423	654	141	109		24	28
XVM S 5-8	1.1	425	656	450	681	141	109		25	29
XVM S 5-9	1.5	468	743	493	768	175	140		32.5	36.5
XVM S 5-10	1.5	495	770	520	795	175	140		33.5	37.1
XVM S 5-11	2.2	522	797	547	822	175	140		36.1	39.6
XVM S 5-12	2.2	549	824	574	849	175	140		36.7	40.2
XVM S 5-13	2.2	576	851	601	876	175	140		37.2	40.8
XVM S 5-14	2.2	603	878	628	903	175	140		37.8	41.3
XVM S 5-15	2.2	630	905	655	930	175	140		38.4	41.9
XVM S 5-16	2.2	657	932	682	957	175	140		39.0	42.5
XVM S 5-18	3	715	1035	740	1060	196	148		46.5	50.1
XVM S 5-20	3	769	1089	794	1114	196	148		47.7	59.4
XVM S 5-22	4	823	1158	848	1183	219	162		55.8	60.5
XVM S 5-24	4	877	1212	902	1237	219	162		57.0	61.6
XVM S 5-26	4	931	1266	956	1291	219	162		58.1	63.4
XVM S 5-29	4	1012	1347	1037	1372	219	162		59.8	83.7
XVM S 5-32	5.5	1123	1483	1148	1508	234	199	300	80.2	86.0
XVM S 5-36	5.5	1231	1591	1256	1616	234	199	300	82.5	

XVM S 10

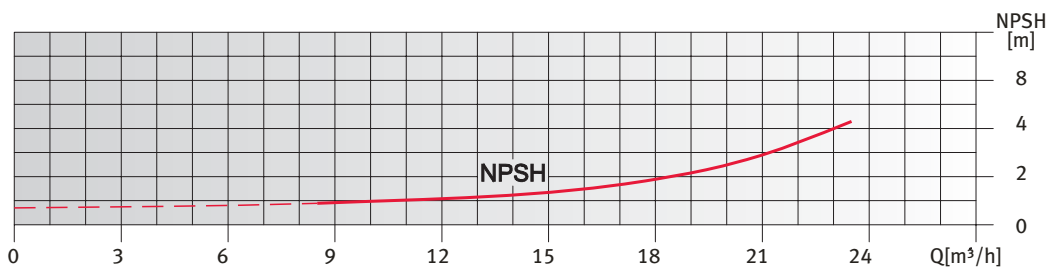
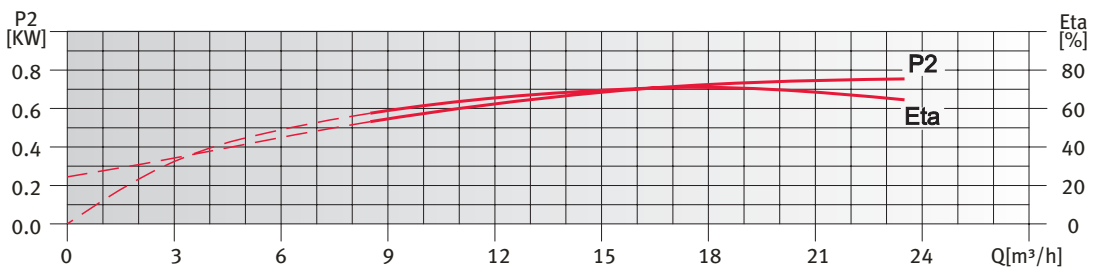
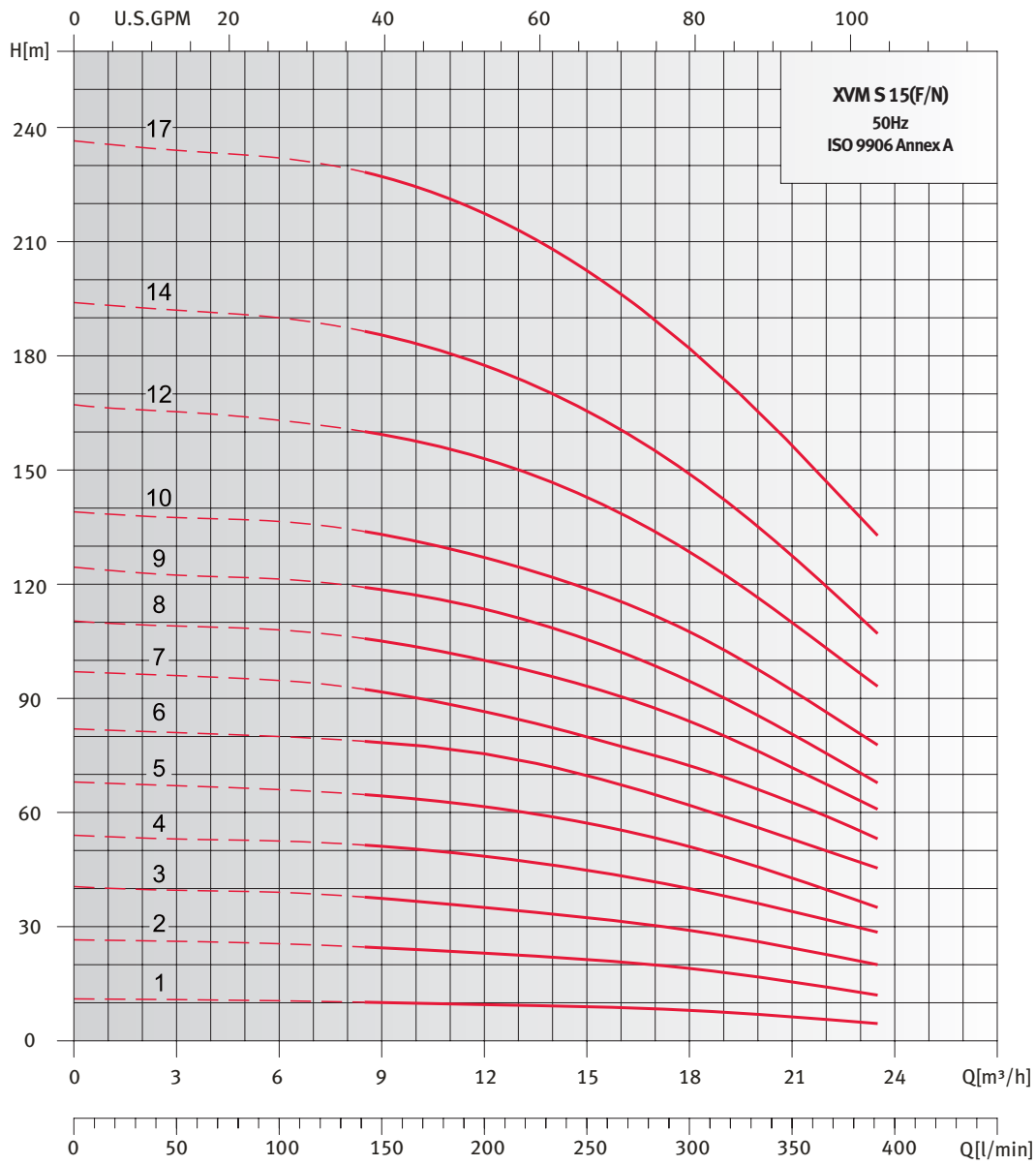


Dimensions and weights-XVM S 10

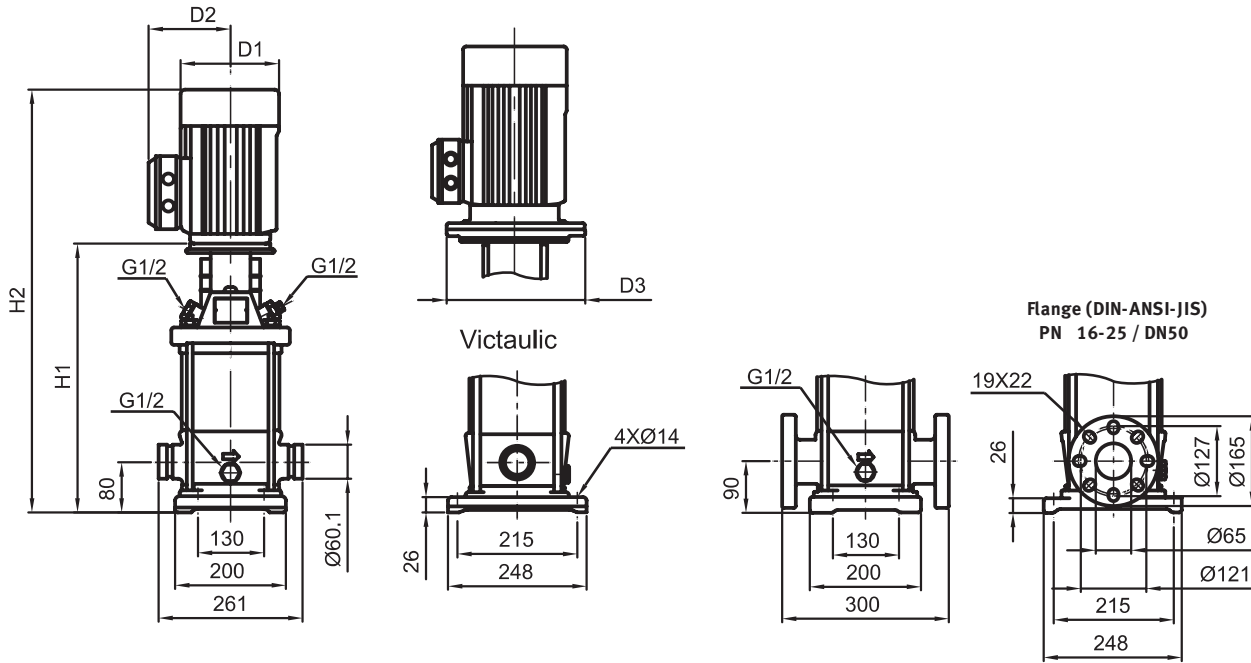


Pump type	Motor P ₂ [KW]	XVM S								
		Dimension [mm]							Net weight [kg]	
		Victaulic		DIN flange		D1	D2	D3	Victaulic	DIN flange
H1	H2	H1	H2							
XVM S 10-1	0.37	353	544	353	544	141	109		28	32
XVM S 10-2	0.75	357	588	357	588	141	109		31	34
XVM S 10-3	1.1	387	618	387	618	141	109		34	38
XVM S 10-4	1.5	433	708	433	708	175	140		43.6	47.1
XVM S 10-5	2.2	463	738	463	738	175	140		46.6	50.1
XVM S 10-6	2.2	493	768	493	768	175	140		47.6	51.1
XVM S 10-7	3	528	848	528	848	196	148		54.4	57.9
XVM S 10-8	3	558	878	558	878	196	148		55.4	59.0
XVM S 10-9	3	588	908	588	908	196	148		56.5	60.0
XVM S 10-10	4	618	853	618	953	219	162		64.5	68.0
XVM S 10-12	4	678	1013	678	1013	219	162		66.5	70.0
XVM S 10-14	5.5	770	1130	770	1130	234	199	300	93.4	96.9
XVM S 10-16	5.5	830	1190	830	1190	234	199	300	95.4	99.0
XVM S 10-18	7.5	890	1290	890	1290	234	199	300	106.5	110.0
XVM S 10-20	7.5	950	1350	950	1350	234	199	300	108.5	112.0
XVM S 10-22	7.5	1010	1410	1010	1410	234	199	300	110.6	114.1

XVMS15

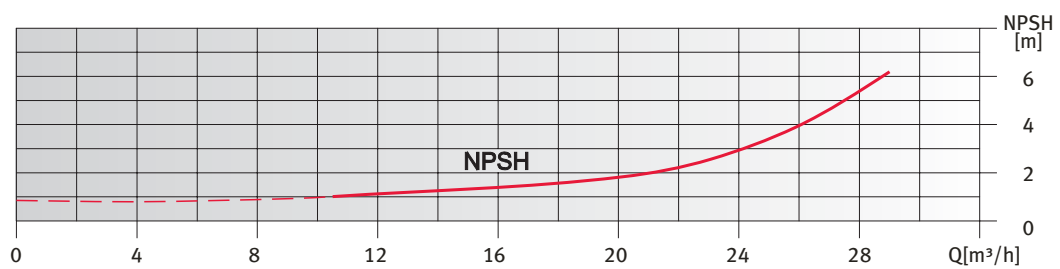
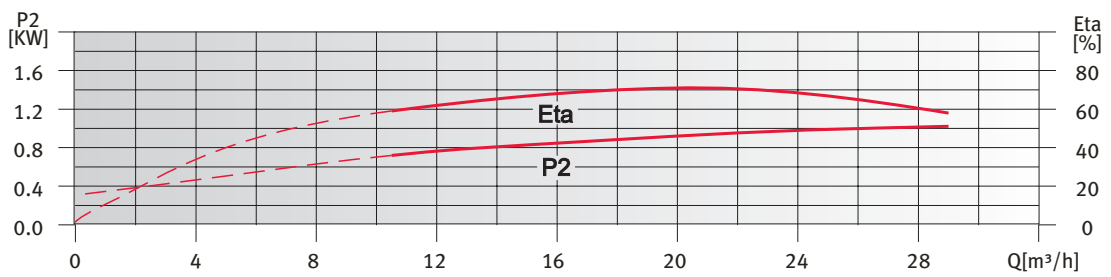
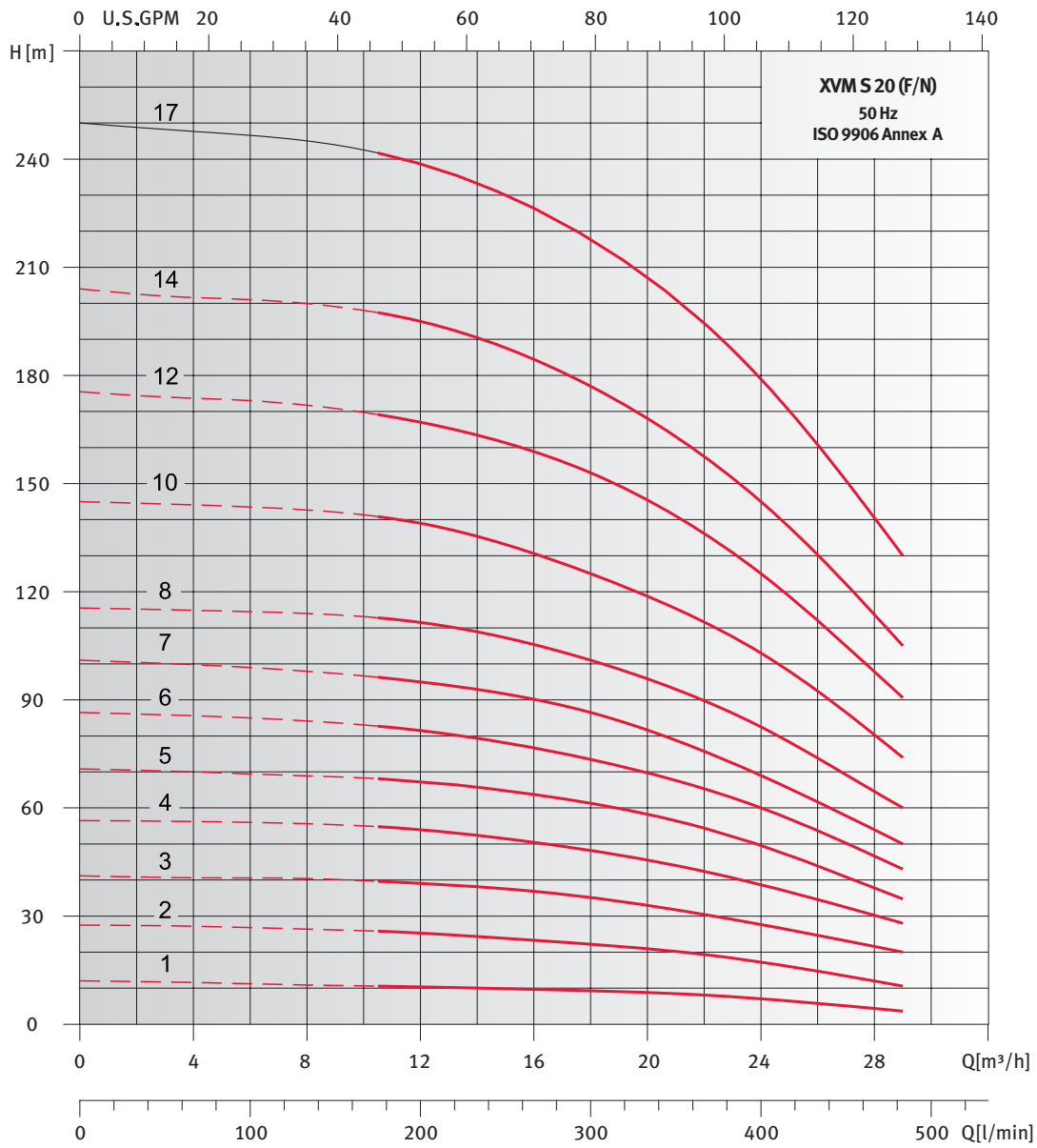


Dimensions and weights-XVM S 15

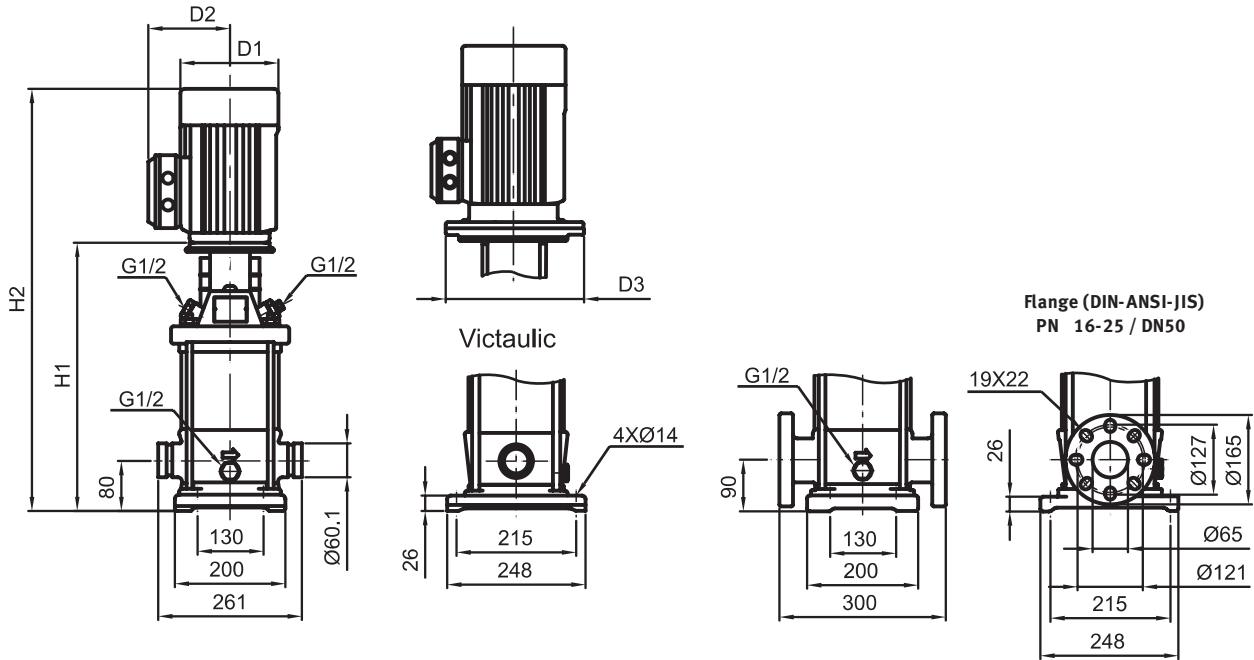


Pump type	Motor P ₂ [KW]	XVM S								
		Dimension [mm]				Net weight [kg]				
		Victaulic		DIN flange		D1	D2	D3	Victaulic	DIN flange
H1	H2	H1	H2							
XVM S 15-1	1.1	387	618	397	628	141	109		44.3	42
XVM S 15-2	2.2	403	678	413	688	175	140		34	48.8
XVM S 15-3	3	453	773	463	783	196	148		51.5	56.0
XVM S 15-4	4	498	833	508	843	219	162		59.9	64.4
XVM S 15-5	4	543	878	553	888	219	162		61.3	65.8
XVM S 15-6	5.5	620	980	630	990	234	199	300	87.6	92.1
XVM S 15-7	5.5	665	1025	675	1035	234	199	300	89.0	93.5
XVM S 15-8	7.5	710	1110	720	1120	234	199	300	99.4	103.9
XVM S 15-9	7.5	755	1155	765	1165	234	199	300	100.8	105.3
XVM S 15-10	11	877	1322	887	1332	268	215	350	132.4	136.9
XVM S 15-12	11	967	1412	977	1422	268	215	350	135.2	139.7
XVM S 15-14	11	1057	1502	1067	1512	268	215	350	138.0	142.5
XVM S 15-17	15	1192	1681	1202	1691	268	215	350	153.2	157.7

XVM S 20

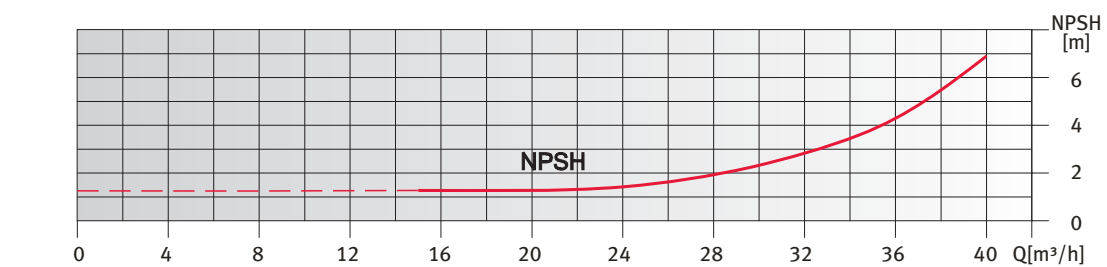
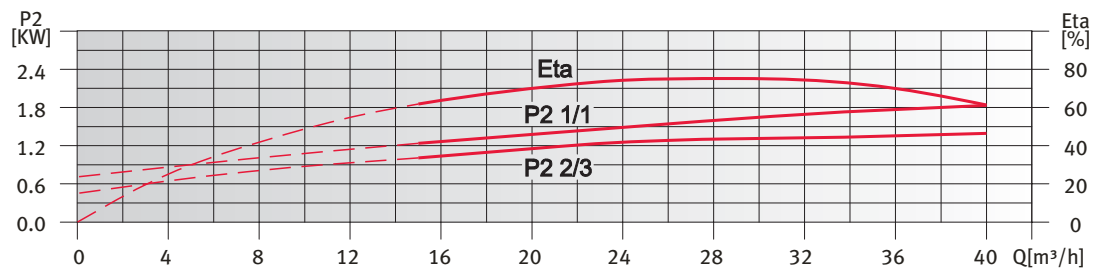
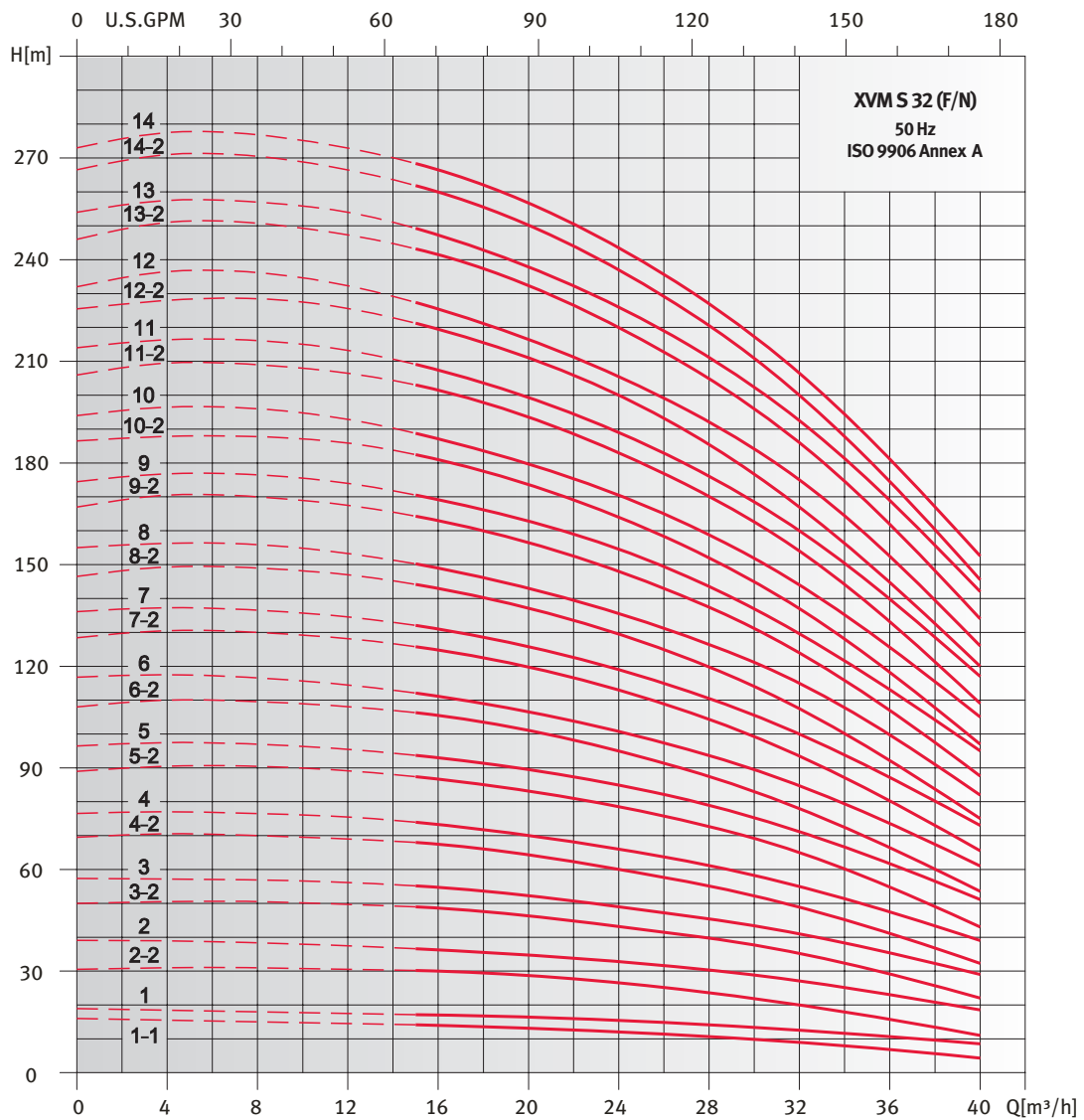


Dimensions and weights-XVM S 20

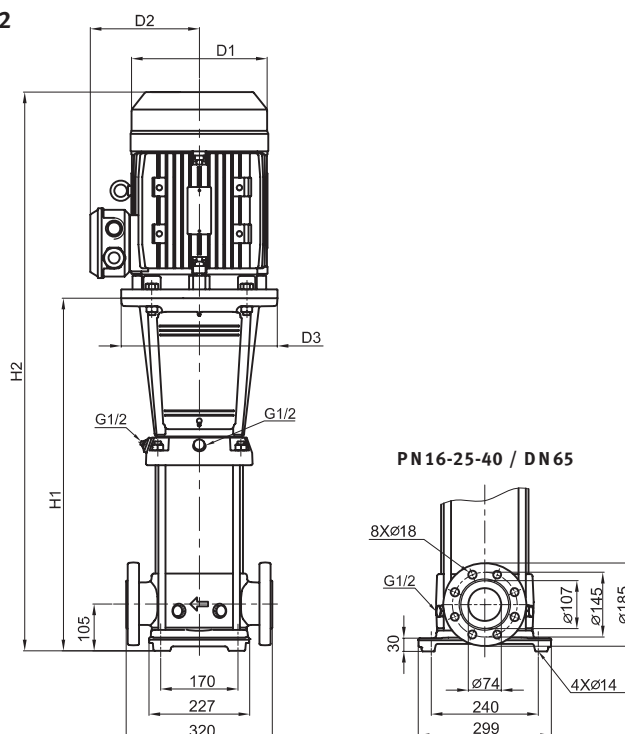


Pump type	Motor P ₂ [KW]	XVM S								
		Dimension [mm]				XVM S			Net weight [kg]	
		Victaulic		DIN flange		D1	D2	D3	Victaulic	DIN flange
		H1	H2	H1	H2					
XVM S 20-1	1.1	387	618	397	628	141	109		34	39
XVM S 20-2	2.2	403	678	413	688	175	140		44.3	48.8
XVM S 20-3	4	453	788	463	798	219	162		58.5	63.0
XVM S 20-4	5.5	530	890	540	900	234	199	300	84.8	89.3
XVM S 20-5	5.5	575	935	585	945	234	199	300	86.2	90.7
XVM S 20-6	7.5	620	1020	630	1030	234	199	300	96.6	101.1
XVM S 20-7	7.5	665	1065	675	1075	234	199	300	98.0	102.5
XVM S 20-8	11	787	1232	797	1242	265	215	350	129.6	134.1
XVM S 20-10	11	877	1322	887	1332	265	215	350	132.4	136.9
XVM S 20-12	15	967	1456	977	1466	265	215	350	146.2	150.7
XVM S 20-14	15	1057	1546	1067	1556	265	215	350	149.0	153.5
XVM S 20-17	18.5	1192	1727	1202	1737	317	242	350	188.2	192.7

XVM S 32

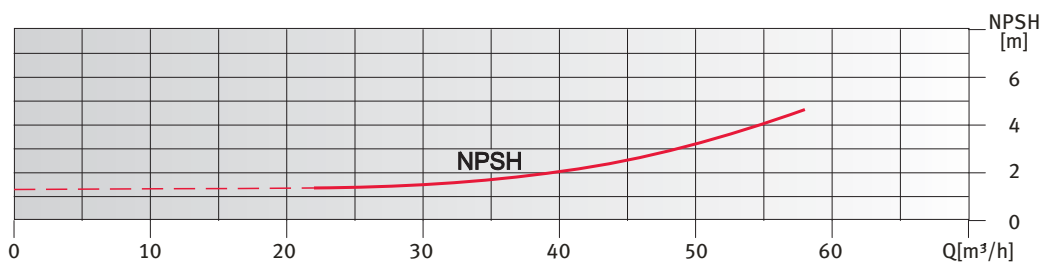
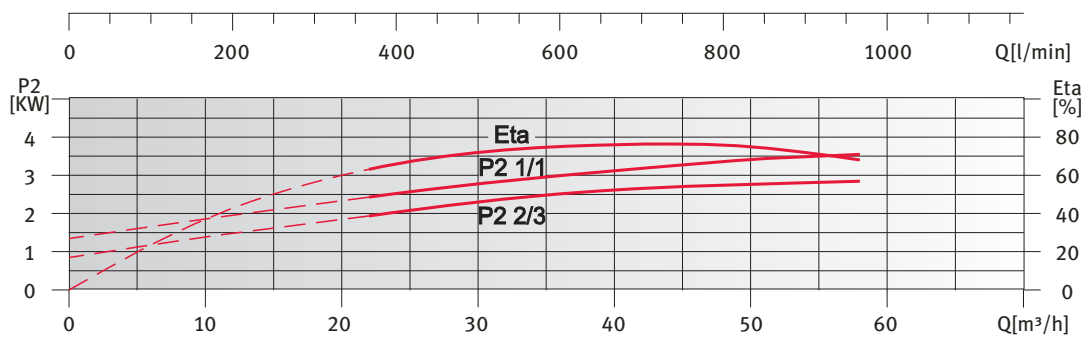
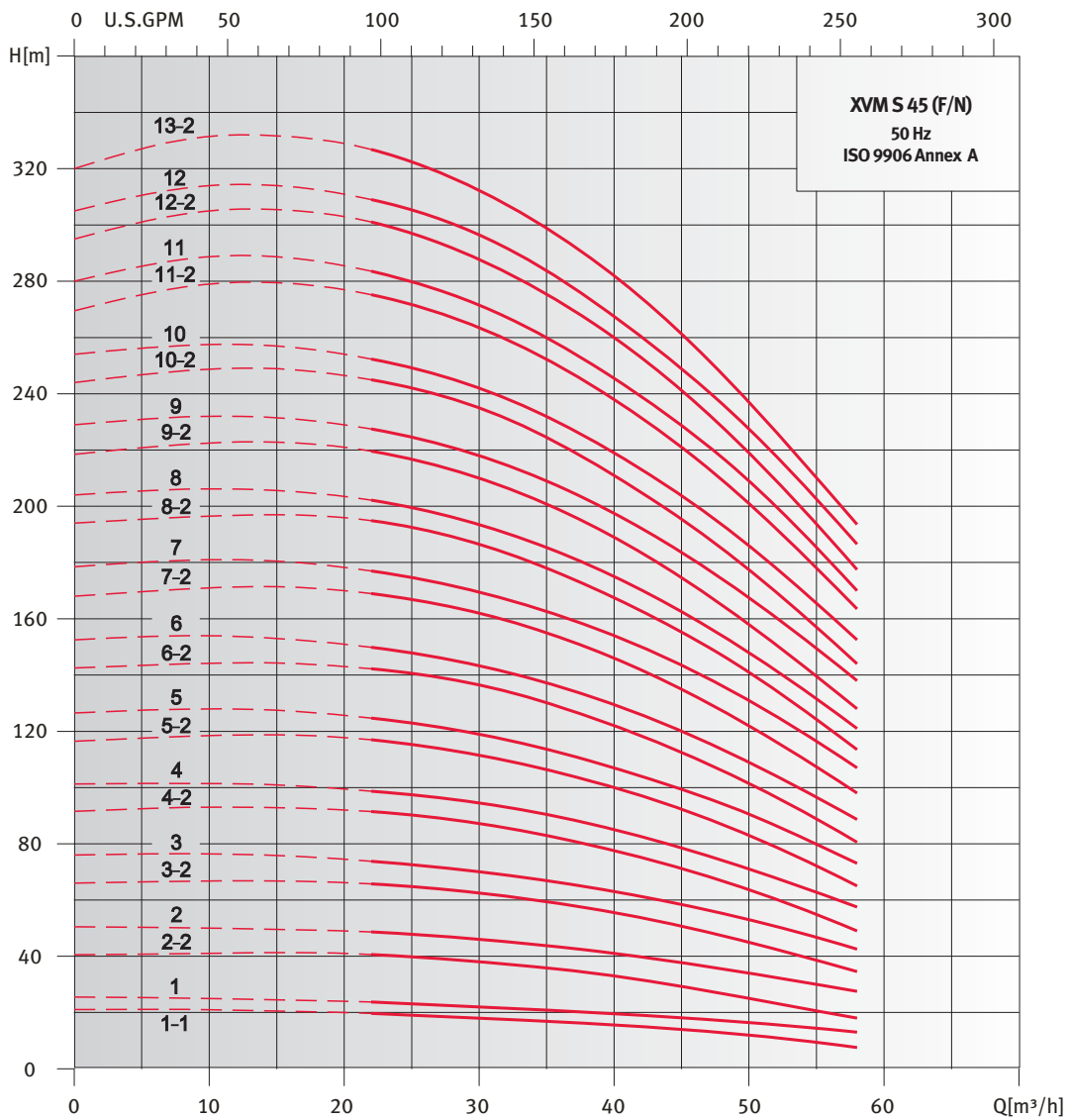


Dimensions and weights-XVM S 32

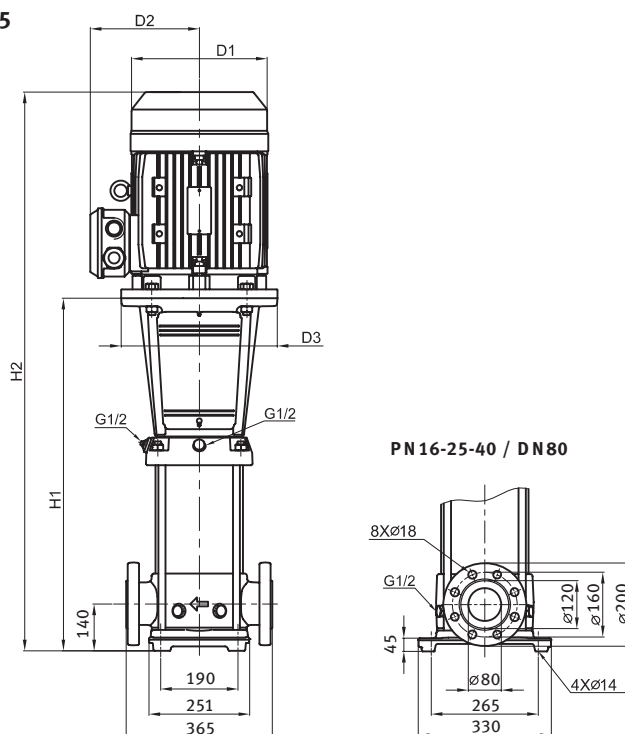


Pump type	Motor P ₂ [KW]	XVM S Dimension [mm]					Net weight [kg]	
		DIN flange		D1	D2	D3		DIN flange
		H1	H2					
XVM S 32-1-1	1.5	504	779	175	140	280	64.6	
XVM S 32-1	2.2	504	779	175	140	280	66.7	
XVM S 32-2-2	3.0	574	894	196	148	280	75.6	
XVM S 32-2	4.0	574	909	219	162	280	82.6	
XVM S 32-3-2	5.5	644	1004	234	199	300	99.5	
XVM S 32-3	5.5	644	1004	234	199	300	99.5	
XVM S 32-4-2	7.5	714	1114	234	199	300	111.5	
XVM S 32-4	7.5	714	1114	234	199	300	111.6	
XVM S 32-5-2	11.0	894	1294	268	215	350	148.1	
XVM S 32-5	11.0	894	1294	268	215	350	148.2	
XVM S 32-6-2	11.0	964	1409	268	215	350	151.1	
XVM S 32-6	11.0	964	1409	268	215	350	151.2	
XVM S 32-7-2	15.0	1034	1523	268	215	350	165.2	
XVM S 32-7	15.0	1034	1523	268	215	350	165.2	
XVM S 32-8-2	15.0	1104	1593	268	215	350	168.4	
XVM S 32-8	15.0	1104	1593	268	215	350	168.4	
XVM S 32-9-2	18.5	1174	1709	317	242	350	206.0	
XVM S 32-9	18.5	1174	1709	317	242	350	206.1	
XVM S 32-10-2	18.5	1244	1779	317	242	350	208.6	
XVM S 32-10	18.5	1244	1779	317	242	350	208.7	
XVM S 32-11-2	22.0	1314	1893	317	242	350	222.0	
XVM S 32-11	22.0	1314	1893	317	242	350	222.0	
XVM S 32-12-2	22.0	1384	1963	317	242	350	224.6	
XVM S 32-12	22.0	1384	1963	317	242	400	224.6	
XVM S 32-13-2	30.0	1384	2077	317	290	400	312.5	
XVM S 32-13	30.0	1454	2077	317	290	400	312.5	
XVM S 32-14-2	30.0	1524	2147	317	290	400	315.1	
XVM S 32-14	30.0	1524	2147	317	290	400	315.1	

XVMS 45

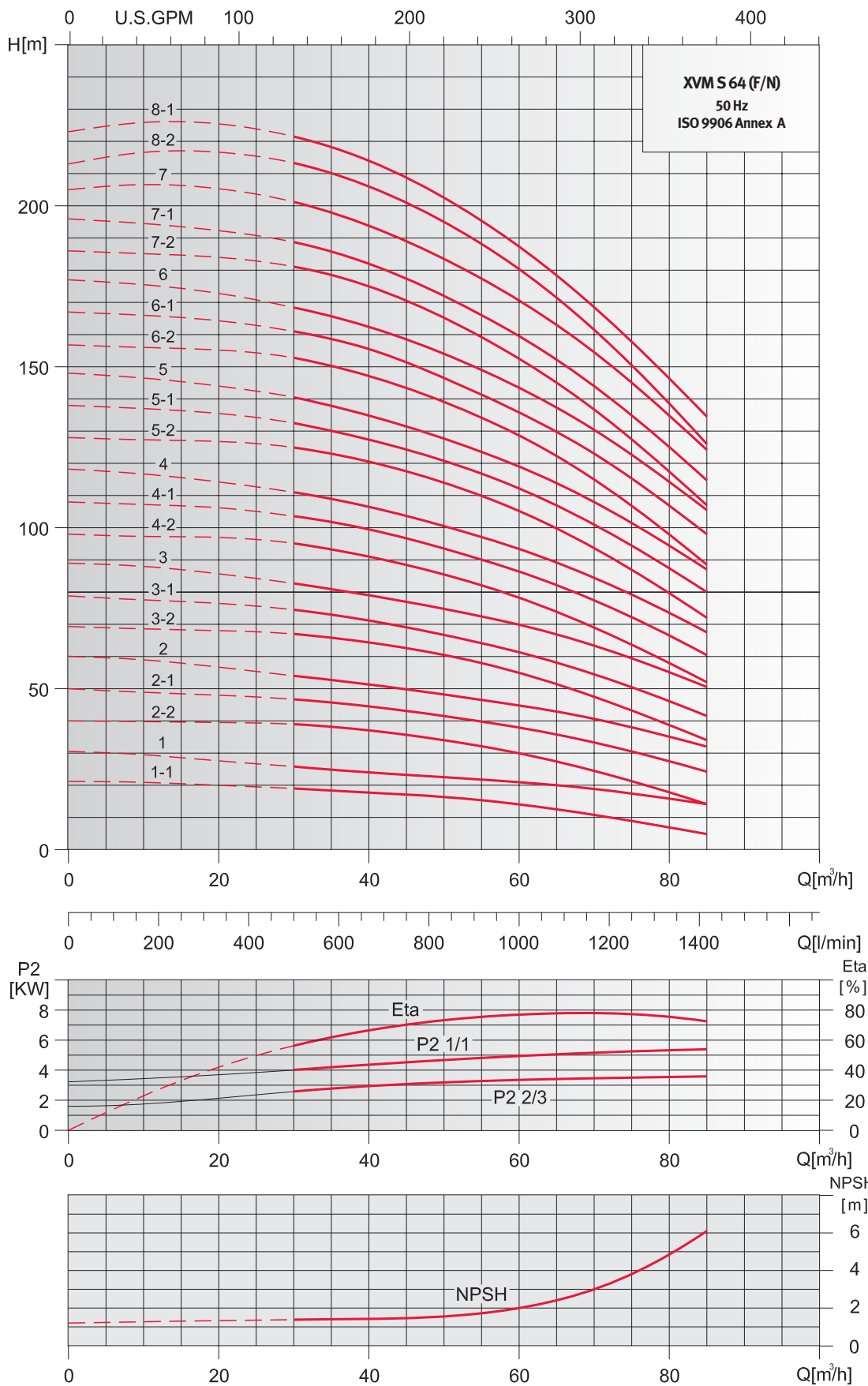


Dimensions and weights-XVM S 45

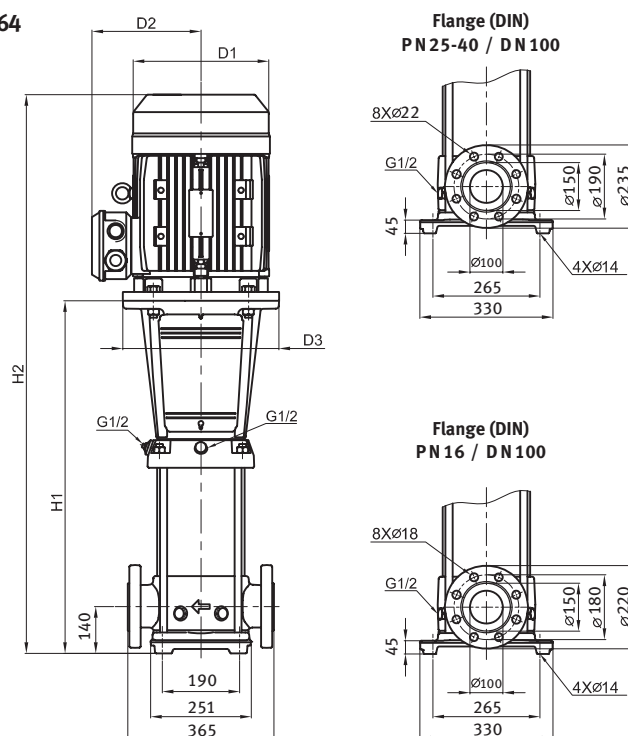


Pump type	Motor P ₂ [KW]	XVM S Dimension [mm]					Net weight [kg]	
		DIN flange		D1	D2	D3		DIN flange
		H1	H2					
XVM S 45-1-1	3.0	559	879	196	148	280	79.3	
XVM S 45-1	4.0	559	894	219	162	280	86.3	
XVM S 45-2-2	5.5	639	999	234	199	300	103.8	
XVM S 45-2	7.5	639	1039	234	199	300	112.8	
XVM S 45-3-2	11.0	829	1274	268	215	350	150.0	
XVM S 45-3	11.0	829	1274	268	215	350	150.1	
XVM S 45-4-2	15.0	909	1398	268	215	350	164.7	
XVM S 45-4	15.0	909	1398	268	215	350	164.7	
XVM S 45-5-2	18.5	989	1524	317	242	350	203.4	
XVM S 45-5	18.5	989	1524	317	242	350	203.4	
XVM S 45-6-2	22.0	1069	1648	317	242	350	217.8	
XVM S 45-6	22.0	1069	1648	317	242	350	217.8	
XVM S 45-7-2	30.0	1149	1772	317	290	400	306.7	
XVM S 45-7	30.0	1149	1772	317	290	400	306.7	
XVM S 45-8-2	30.0	1229	1852	317	290	400	310.4	
XVM S 45-8	30.0	1229	1852	317	290	400	310.4	
XVM S 45-9-2	30.0	1309	1932	317	290	400	314.0	
XVM S 45-9	37.0	1309	2034	398	365	400	383.1	
XVM S 45-10-2	37.0	1389	2114	398	365	400	386.7	
XVM S 45-10	37.0	1389	2114	398	365	400	386.7	
XVM S 45-11-2	45.0	1469	2194	398	365	450	418.3	
XVM S 45-11	45.0	1469	2194	398	365	450	418.3	
XVM S 45-12-2	45.0	1549	2274	398	365	450	421.9	
XVM S 45-12	45.0	1549	2274	398	365	450	421.9	
XVM S 45-13-2	45.0	1629	2354	398	365	450	425.5	

XVM S 64



Dimensions and weights - XVM S 64



Pump type	Motor P ₂ [KW]	XVM S Dimension [mm]					Net weight [kg]
		DIN flange		D1	D2	D3	
		H1	H2				
XVM S 64-1-1	4.0	563	898	219	162	280	81.94
XVM S 64-1	5.5	563	923	234	199	300	95.82
XVM S 64-2-2	7.5	646	1046	234	199	300	108.75
XVM S 64-2-1	11.0	756	1201	268	215	350	142.33
XVM S 64-2	11.0	756	1201	268	215	350	142.33
XVM S 64-3-2	15.0	838	1327	268	215	350	157.34
XVM S 64-3-1	15.0	838	1327	268	215	350	157.34
XVM S 64-3	18.5	838	1373	317	242	350	192.34
XVM S 64-4-2	18.5	921	1456	317	242	350	196.21
XVM S 64-4-1	22.0	921	1500	317	242	350	206.97
XVM S 64-4	22.0	921	1500	317	242	350	206.97
XVM S 64-5-2	30.0	1003	1626	317	290	400	296.09
XVM S 64-5-1	30.0	1003	1626	317	290	400	296.09
XVM S 64-5	30.0	1003	1626	317	290	400	296.09
XVM S 64-6-2	30.0	1086	1709	317	290	400	299.97
XVM S 64-6-1	37.0	1086	1811	398	365	400	368.97
XVM S 64-6	37.0	1086	1811	398	365	400	368.97
XVM S 64-7-2	37.0	1168	1893	398	365	400	372.88
XVM S 64-7-1	37.0	1168	1893	398	365	400	372.88
XVM S 64-7	45.0	1172	1897	398	365	450	400.88
XVM S 64-8-2	45.0	1255	1980	398	365	450	404.91
XVM S 64-8-1	45.0	1255	1980	398	365	450	404.94

Pumped Liquids

→ XVM S pumps can handle a wide variety of liquids, each with its own characteristic.

XVM S F version

- Non-corrosive liquids
- For fluid transfer, circulation and pressure boosting of cold or hot clean water.

XVM S N version

- Industrial Liquids
- Light acids

→ The fluids covered in the list are not complete, Data on the application limits of different pump materials when handling any of the listed fluids are considered to be the best choices. However, the table is intended as a general guide only, and cannot replace actual testing of the pumped fluids and pump materials under specific working conditions.

→ When choosing the pump version, sufficient attention should be given to the flow medium, such as density, solidification point, viscosity as well as ex-protection requirement. The limits of applicability of the pumps, based on pressure and temperature must also be considered.

Recommended

Pumped fluid	"Fluid Concentration, temperature"	XVM S F		XVM S N	
		EPDM	Viton	EPDM	Viton
Acetic acid anhydride	25 °C			•	
Alkaline cleaner		•			
Aluminium sulphate	10%, 25 °C				•
Ammonia water (A. hydroxide)	20%, 40 °C	•			
Ammonia hydrogen carbonate	10%, 40 °C	•		•	
Benzoic acid	10%, 90 °C				•
Boric acid	Unsaturated solution, 60 °C				•
Butanol	60 °C	•			
Calcium acetate	30%, 50 °C	•			
Calcium hydroxide	Saturated solution, 50 °C	•			
Chromic acid	1%, 20 °C				•
Condensate	90 °C	•			
Copper sulphate	Unsaturated solution, 60 °C				•
Deionic (fully desalinated water)	50 °C			•	
Ethanol	100%, 20 °C	•			
Ethylene glycol/Diethylene glycol	40%, 70 °C	•	•	•	•
Fixer	25 °C				•
Formic acid	5%, 20 °C			•	

Pumped fluid	"Fluid Concentration, temperature"	XVM S F		XVM S N	
		EPDM	Viton	EPDM	Viton
Fruit juice	50°C				
Glycerine	50%, 50°C	•			
Heating oil (Light)		•			•
Hydraulic oil	100%, 100°C		•		
Isopropanol		•			
Lactic acid	10%, 20°C				•
Linoleic acid	100%, 20°C	•			
Linseed oil	60°C		•		
Liqueur	60°C				•
Maize oil	80°C		•		
Maleic acid	50%, 50°C				•
Methanol	100%, 20°C	•			
Motor oil	100%, 80°C	•			
Oil-water-mixture	100°C		•		
Oxalic acid	1%, 20°C			•	
Peanut oil	100%, 80°C		•		
Phosphoric acid	20%, 20°C			•	
Polyglycols	90°C		•		•
Polyethylene glycols	40%, 70°C	•			
Potassium carbonate	10%, 60°C	•			
Potassium hydrogen carbonate	10%, 60°C	•			
Potassium permanganate	5%, 20°C			•	
Potassium sulphate	Unsaturated solution, 80°C			•	
Rapeseed oil	100%, 80°C		•		
Silicone oil	100%		•		
Sodium carbonate	10%, 60°C			•	
Sodium hydroxide	25%, 50°C			•	
Sodium nitrate	Unsaturated solution, 80°C			•	
Sodium phosphate	5%, 100°C			•	
Sodium sulphate	10%, 60°C			•	
Sulphuric acid	5%, 25°C				•
Water					
Swimming pool water	35°C	•		•	
Deionic	50°C			•	
Distilled water	50°C			•	
Decarbonated water				•	
Soft water				•	
Heating water				•	
Boiler water				•	
Pure water				•	
Rinsing water		•		•	

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This not only helps in tracking expenses but also ensures compliance with tax regulations.

In the second section, the author provides a detailed breakdown of the monthly budget. It includes categories for housing, utilities, food, and entertainment. By comparing actual spending against the budgeted amounts, one can identify areas where costs are exceeding expectations.

The third section focuses on investment strategies. It suggests diversifying investments across different asset classes to reduce risk. The author also mentions the importance of regularly reviewing and rebalancing the portfolio to maintain the desired risk level.

Finally, the document concludes with a summary of key takeaways. It reiterates the need for discipline in budgeting and investing, and encourages readers to seek professional advice when needed.

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EVACUATING
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products and service you need.