

EN ISO 9905

Standart

SKMV-H

Vertical-Multistage Centrifugal Pumps



ATEX



SKMV-H 00 07-11 EN

Liquids Handled

SKMV-H Type pumps are suitable for clean or slightly contaminated liquids with low viscosity.

Technical Data

Discharge Nozzle Range — DN 32 DN 150 mm

Capacity — up to 400 m³/h

Head — up to 350 m

Speed — up to 2900 rpm

Operating Temperature — -10°C up to +120°C*

Casing Pressure (Pmax) — 30 bar (40 bar) *

(Pmax: Suction pressure + Shutoff Head)

(*) The material of pumps differs according to the type of pumped liquid, operating temperature and pressure. Contact our company for detailed information.

Fields of Application

- Water supply systems
- Booster units
- Boiler feed water and condensate
- Heating - air conditioning
- Irrigation - sprinkler
- Fire fighting systems

Design Features

- Vertical, multistage centrifugal pumps with closed impellers and diffusers.
- 8 models from DN 32 to DN 150.
- Suction nozzle flanges are according to ISO 7005-2 / PN 16 and discharge nozzle flanges are according to ISO 7005-2 / PN 40
- Axial thrust is balanced by back wear ring and balancing holes in each impeller.
- Pump impellers are balanced statically and dynamically according to ISO 1940 class 6.3.
- Pump shaft is coupled with standard motor shaft by means of a flexible coupling.

Bearings

- Pump shaft is supported by medium lubricated sleeve bearing in suction casing and grease lubricated ball bearing on the delivery side.

Shaft Sealing

- In standard production soft packed stuffing boxes are used. Depending on customer requirement mechanical seals are available.

Direction of Rotation

- Direction of rotation is counter clockwise viewed from driver end.

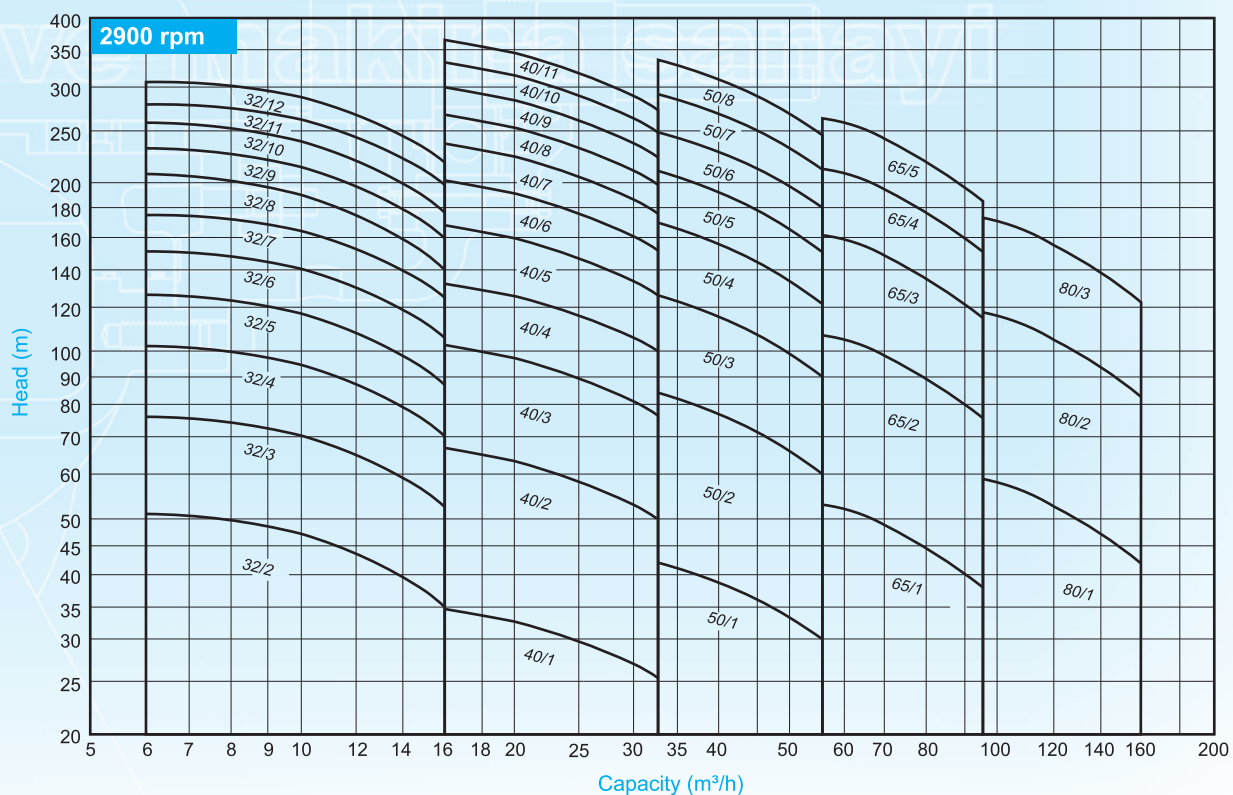
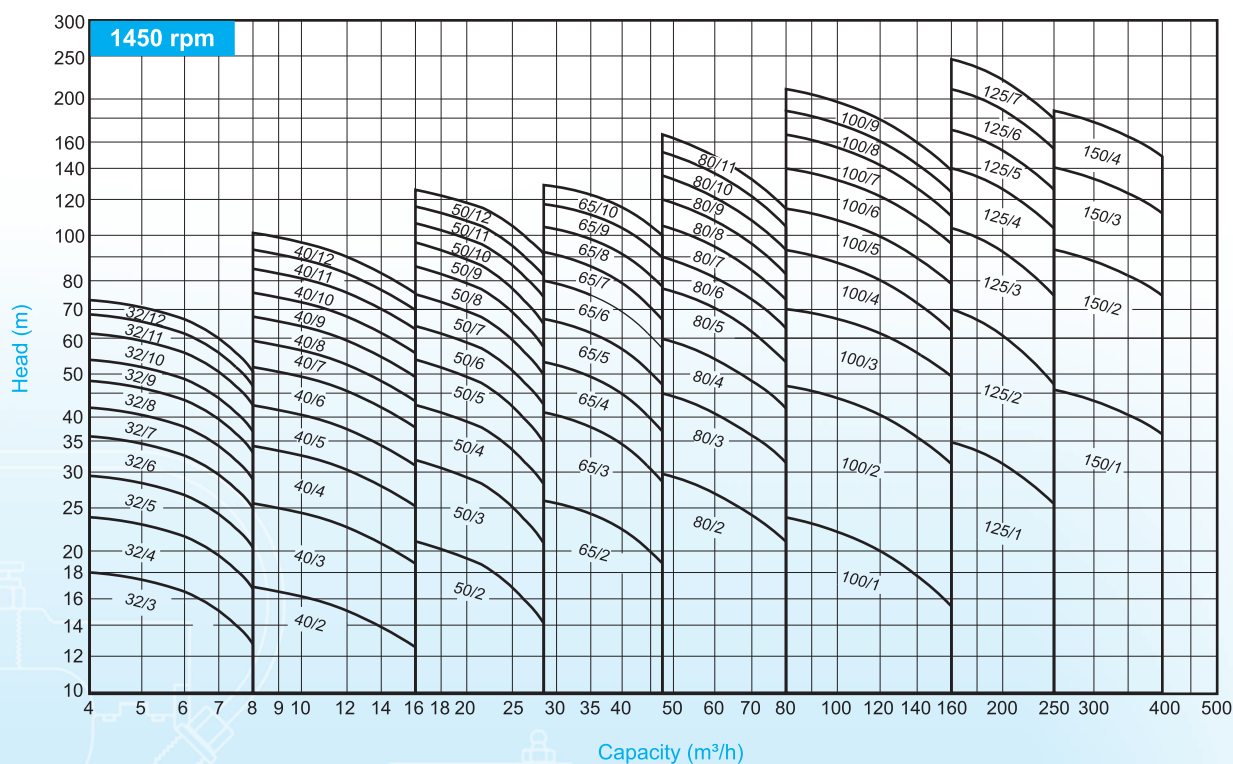
Pump Designation

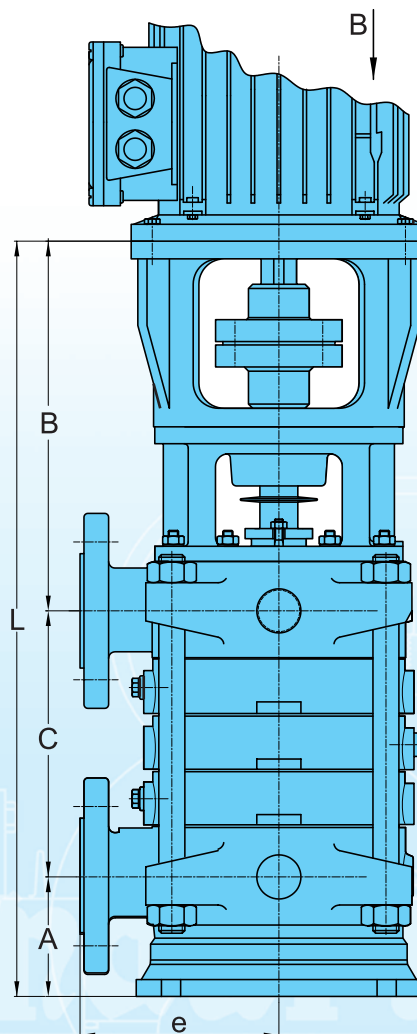
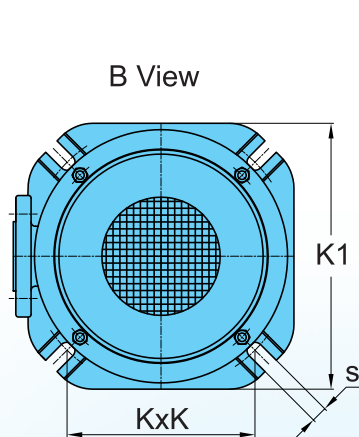
SKMV-H 100 / 6

Pump Type

Discharge Nozzle (DN)

Number of Stage



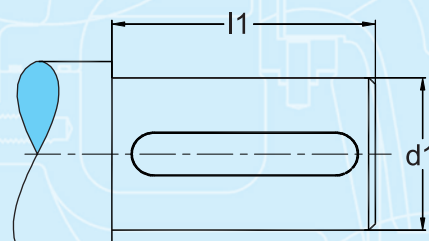
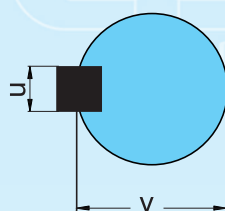


Bearing Types

Pump Type	Bearing type
32	3305
40	3305
50	3306
65	3307
80	3308
100	3309
125	3310
150	3312

Shaft End

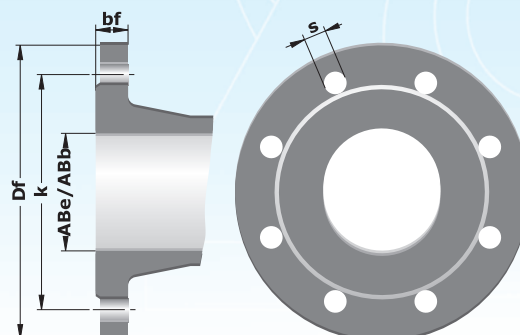
Pump Type	d1	l1	v	u
32	22	50	25	6
40	22	50	25	6
50	28	65	31	8
65	32	65	35	10
80	38	80	41	10
100	42	110	45	12
125	48	110	51.5	14
150	55	110	59	16



Flange Dimensions

Pump Type	Suction (PN 16)						Discharge (PN 40)					
	ABe	Df	k	s	n	bf	ABb	Df	k	s	n	bf
32	40	150	110	18	4	18	32	140	100	18	4	20
40	50	165	125	18	4	20	40	150	110	18	4	20
50	65	185	145	18	4	20	50	165	125	18	4	22
65	80	200	160	18	8	22	65	185	145	18	8	24
80	100	220	180	18	8	24	80	200	160	18	8	26
100	125	250	210	18	8	26	100	235	190	23	8	28
125	150	285	240	23	8	26	125	270	220	27	8	30
150	200	340	295	23	12	30	150	300	250	27	8	34

"n" number of holes



[illegible]

Pump Type	MOTOR IEC No	Dimensions (mm)									C mm No of Stages											
		DN1	DN2	L	A	B	e	KxK	K1	s	1	2	3	4	5	6	7	8	9	10	11	12
32	112	40	32	409+C	105	306	155	212	300	18	71	114	157	200	243	286	329	372	415	458	501	544
	429+C			326																		
	459+C			356																		
40	132	50	40	435+C	103	332	175	212	300	18	78	133	188	243	298	353	408	463	518	573	628	-
	160			362																		
	180			392																		
50	200	65	50	495+C	114	389	190	247	350	18	90	152	214	276	338	400	462	524	-	-	-	-
	225			419																		
	250			453																		
65	160	80	65	555+C	135	420	215	247	350	18	107	178	249	320	391	-	-	-	-	-	-	-
	180			480																		
	200			515																		
80	225	100	80	615+C	145	453	265	247	350	23	112	195	278	-	-	-	-	-	-	-	-	-
	250			483																		
	280			515																		

Standart

Material Options

Part List	0.6025	0.7040	1.0619	1.4308	1.4408	2.1050.01	2.1090.01	2.1096.01	1.4021	1.4301	1.4401	Tungsten Carbide
Suction casing	●	○	○	○	○	○						
Discharge casing	●	○	○	○	○	○						
Stage casing	●	○	○	○	○	○						
Diffuser	●	○	○	○	○	○						
Impeller	●	○	○	○	○	○	○	○				
Shaft									●	○	○	
Bearing housing	●	○										
Wear ring (Casing)	○	○	○	○	○	○	○	○				
Spacer sleeve						○	○	○	●	○	○	
Shaft protecting sleeve						○	○	○	●	○	○	
Bearing bush						●						○
Mechanical seal (*) EN 12756 / DIN 24960												

(*) Optional : Depending on customer requirement or request different types and brands of mechanical seals are applicable.

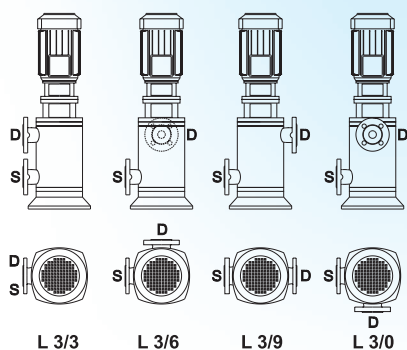
● Standard manufacturing

○ Optional

Material Equivalents

Description	DIN 17007	EN-DIN	ASTM
Cast iron	0.6025	GJL-250 (GG 25)	A 48 Class 40-B
Nodular cast iron	0.7040	GJS-400-15 (GGG 40)	A 536 Gr. 60-40-18
Cast steel	1.0619	GP240GH (GS-C 25)	A 216 Gr. WCB
Chrome nickel cast steel	1.4308	G-X6 Cr Ni 19-10	A 351/743/744 Gr. CF8
Chrome nickel molybdenum cast steel	1.4408	G-X6 Cr Ni Mo 19-11-2	A 351/743/744 Gr. CF8M
Cast bronze	2.1050.01	G-Cu Sn 10	B 584 C 90700
Cast bronze	2.1090.01	G-Cu Sn 7 Zn Pb	B 584 C 93200
Cast bronze	2.1096.01	G-Cu Sn 5 Zn Pb	B 584 C 83600
Chrome steel	1.4021	X20 Cr 13	A 276 Type 420
Chrome nickel steel	1.4301	X5 Cr Ni 18-10	A 276 Type 304
Chrome nickel molybdenum steel	1.4401	X5 Cr Ni Mo 17-12-2	A 276 Type 316

Flange Positions



Explanation :

X X X

Discharge Flange (D)
Suction Flange (S)
Sense of rotation (L)

Sense of rotation viewed from driver end
L : Left

Attention :

In the absence of specific requirement pumps are supplied with the following nozzle arrangements :

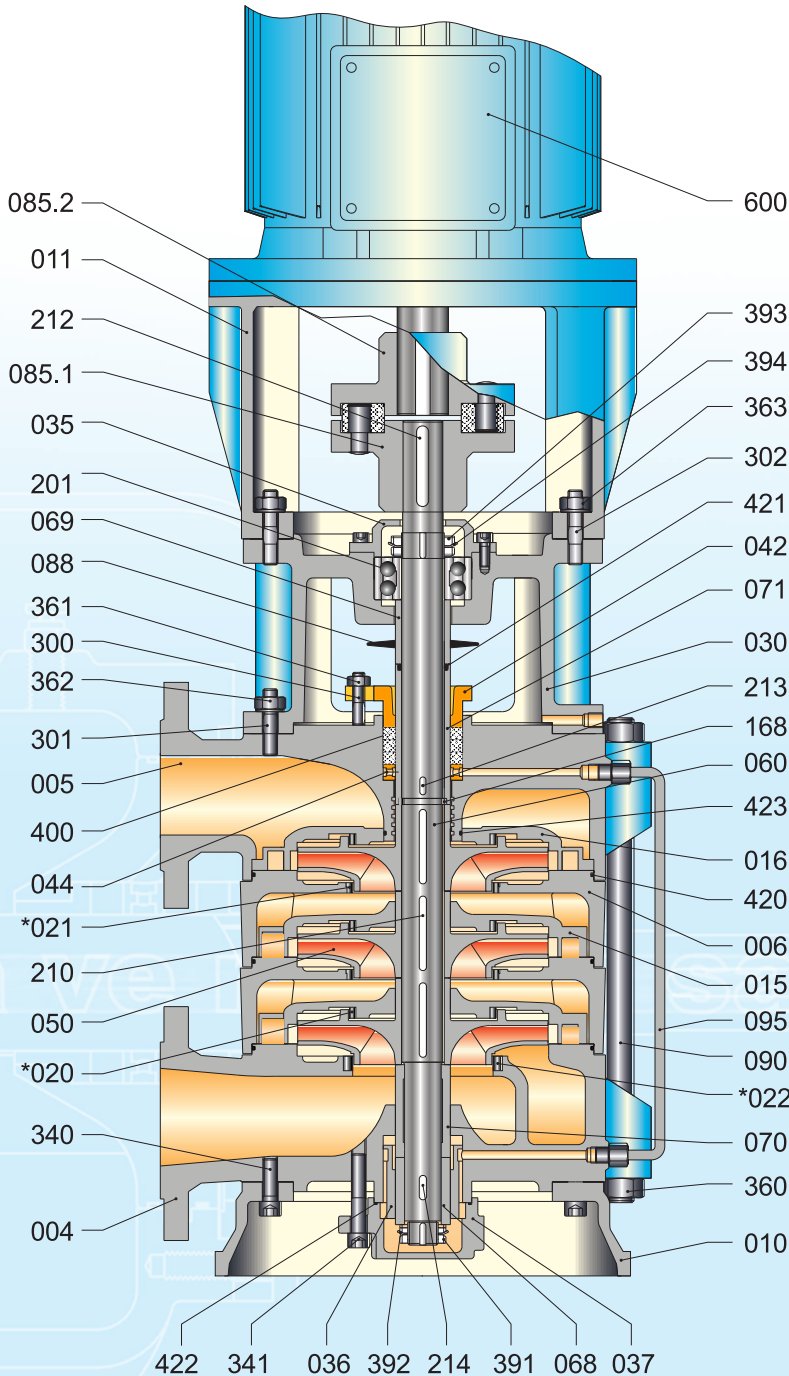
L 3/9 : up to 2 stages

L 3/3 : 3 or more stages

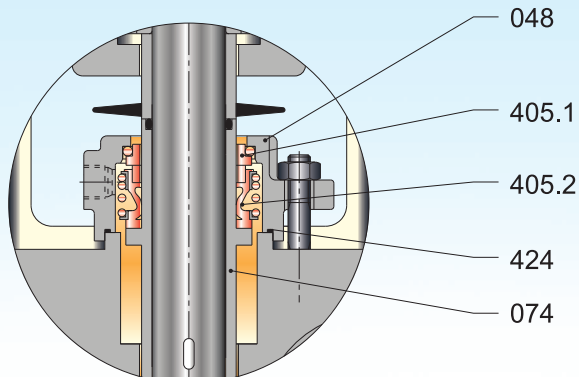
PART LIST

004	Suction Casing
005	Discharge Casing
006	Stage Casing
010	Pump Foot
011	Motor Pedestal
015	Diffuser
016	Final Stage Diffuser
*020	Wear Ring (Stage Casing)
*021	Wear Ring (Stage Casing)
*022	Wear Ring (Suction Casing)
030	Bearing Housing
035	Bearing Cover
036	Sleeve Bearing
037	Sleeve Bearing Cover
042	Gland
044	Lantern Ring
048	Mechanical Seal Cover
050	Impeller
060	Pump Shaft
068	Shaft Sleeve
069	Spacer Sleeve (Discharge Casing)
070	Spacer Sleeve (Suction Casing)
071	Spacer Sleeve (Soft Packing)
074	Spacer Sleeve (Mechanical Seal)
085.1	Coupling (Pump Side)
085.2	Coupling (Motor Side)
088	Thrower
090	Tiebolt
095	Sleeve Bearing Feeding Pipe
168	Split Ring
201	Angular Contact Ball Bearing
210	Key (Impeller)
212	Key (Coupling)
213	Key
214	Key
300	Gland Stud
301	Stud
302	Stud
340	Allen Bolt
341	Allen Bolt
360	Hex. Nut
361	Hex. Nut
362	Hex. Nut
363	Hex. Nut
391	Shaft End Nut
392	Lock Washer
393	Shaft End Nut
394	Lock Washer
400	Stuffing Box Packing
*405.1	Mechanical Seal (Stationary Part)
*405.2	Mechanical Seal (Rotating Part)
420	O-Ring
421	O-Ring
422	O-Ring
423	O-Ring
424	O-Ring
600	Electric Motor

* Optional



Mechanical Seal Application



®



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