

KNM-IN

End suction non metallic pumps

Applications :

- Chemical Industry
- Pharma Industry
- Detergent Industry
- Waste water treatment plants

Trust of
German
Technology



Fields of Application

KNM-IN are used in pumping of highly corrosive mediums with or without maximum suspended solid size upto 500 microns. Majorly used in chemical industries.

Design

KNM IN are horizontal, single stage, single entry, normally semi-open type impeller, radially split, volute casing pump of back pull out type design.

Operating Parameters

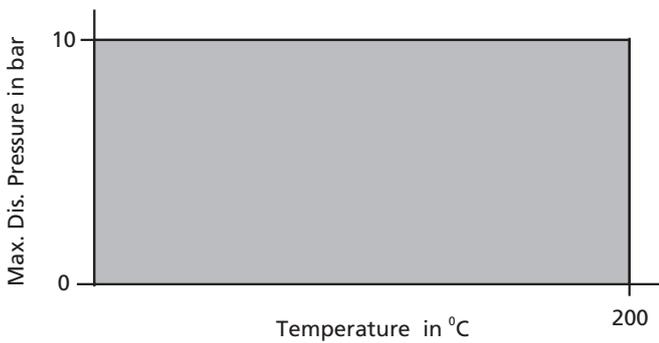
Capacity	: Upto 470 m ³ /Hr
Head	: Upto 84 m
Pump Sizes	: DN from
Temperature	: Upto 200°C for G1, G2, G3, G4 Upto 65°C for G5
Operating Pressure	: PN10
Max solid size	: Upto 500 Microns

Designation

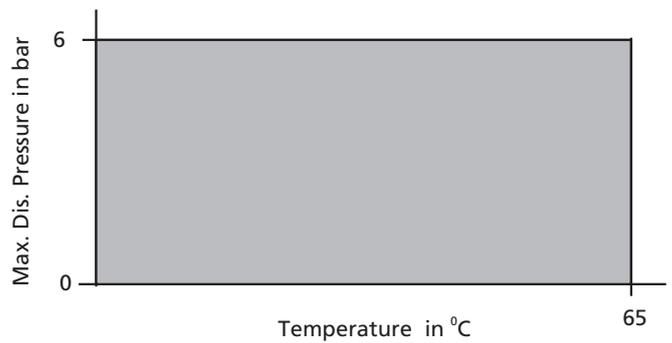
	KNM-IN	40	25	210	G1
Type of Series	_____	_____	_____	_____	_____
Nominal Suction nozzle diameter (in mm)	_____	_____	_____	_____	_____
Nominal Discharge nozzle diameter (in mm)	_____	_____	_____	_____	_____
Nominal Impeller diameter (in mm)	_____	_____	_____	_____	_____
Material variant	_____	_____	_____	_____	_____

Pressure and Temperature Limits

For material variant G1, G2, G3 & G4 :



For material variant G5 :



Materials

Material Variants					
MOC Variant >>>	G1	G2	G3	G4	G5
Volute casing	PPH / WCB	PVDF / WCB	FEP / WCB	PFA / WCB	PP
Impeller	PPH / CF8	PVDF / CF8	FEP / CF8	PFA / CF8	PP
Discharge Cover	PPH / WCB	PVDF / WCB	FEP / WCB	PFA / WCB	PP
Shaft	AISI-SAE 4140				
Shaft sleeve	SS316	SS316	SS316	SS316	CERAMIC
Bearing Bracket	FG260	FG260	FG260	FG260	FG260
Bearing Housing	FG260	FG260	FG260	FG260	FG260
Bearing Cover	FG260	FG260	FG260	FG260	FG260
Hex Bolt	A193 GR B7				
Hex Nut	SS304	SS304	SS304	SS304	SS304

PVDF / WCB = Lining of PVDF over WCB casting

PVDF / CF8 = Lining of PVDF over CF8 casting

PP = Full solid part made of PP material

Pump Sizes

Sr	KNM- IN Sizes	DN1	DN2	Impeller Diameter	Max Head (Mtrs)	Max Flow (m ³ hr)	2900 RPM	1440 RPM	Lined Pumps	Solid Pumps	Bearing Bracket size	No. of Vanes	PPH	PVDF	FEP	PFA	PP
													G1	G2	G3	G4	G5
1	25-25-125	25	25	125	23	14	X	---	X	---	BB01	6	X	X	X	X	---
2	40-25-210	40	25	210	62	30	X	X	X	---	BB01	6	X	X	X	X	---
3	50-40-260	50	40	260	84	61	X	X	X	---	BB01	6	X	X	X	X	---
4	50-40-160	50	40	160	35	40	X	---	X	---	BB01	6	X	X	X	X	---
5	50-40-195	50	40	195	54	50	X	X	X	---	BB01	6	X	X	X	X	---
6	80-50-160	80	50	160	36	65	X	---	X	---	BB01	6	X	X	X	X	---
7	80-50-315	80	50	315	37	47	---	X	X	---	BB02	6	X	X	X	X	---
8	80-50-195	80	50	195	53	95	X	X	X	---	BB02	6	X	X	X	X	---
9	80-50-265	80	50	265	24	63	---	X	X	---	BB02	6	X	X	X	X	---
10	100-80-270	100	80	270	28	150	---	X	X	---	BB02	6	X	X	X	X	---
11	100-80-350	100	80	350	47	198	---	X	X	---	BB03	6	X	X	X	X	---
12	150-125-280	150	125	280	26	470	---	X	X	---	BB04	6	X	X	X	X	---
13	75-40-157	75	40	157	32	33	X	---	---	X	BB05	5	---	---	---	---	X
14	40-40-140	40	40	140	22	22	X	---	---	X	BB05	5	---	---	---	---	X
15	75-50-160	75	50	160	31	45	X	---	---	X	BB05	5	---	---	---	---	X
16	50-40-205	50	40	205	49	48	X	---	---	X	BB05	6	---	---	---	---	X
17	75-40-205	75	40	205	16	24	---	X	---	X	BB05	6	---	---	---	---	X
18	40-40-205	40	40	205	14	20	---	X	---	X	BB05	6	---	---	---	---	X
19	75-50-205	75	50	205	17	40	---	X	---	X	BB05	6	---	---	---	---	X

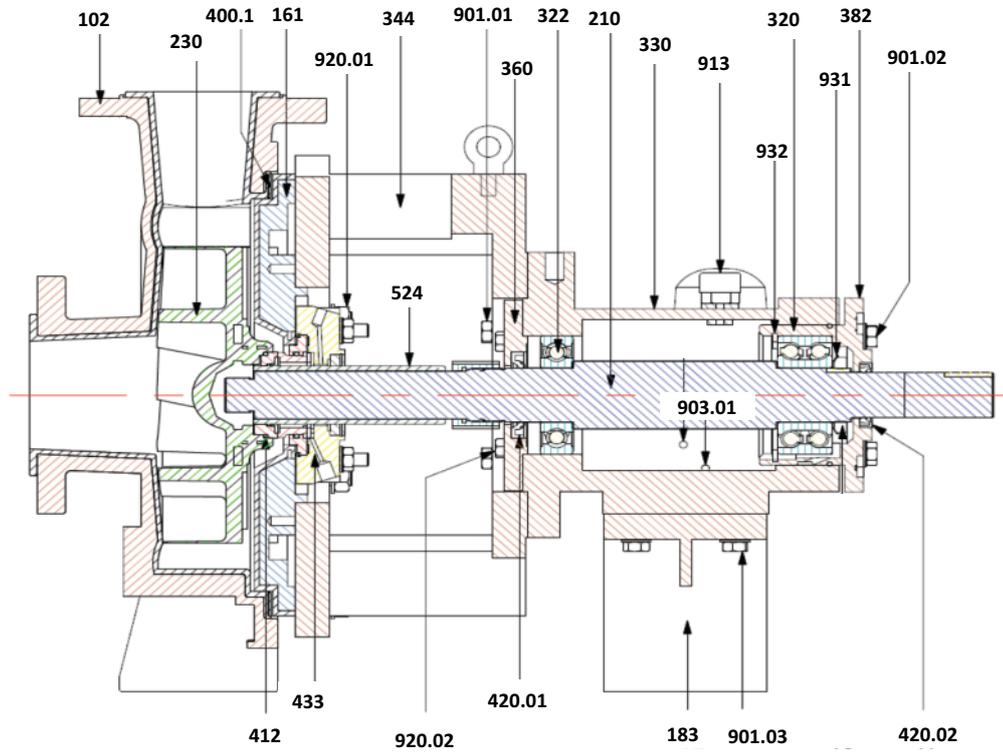
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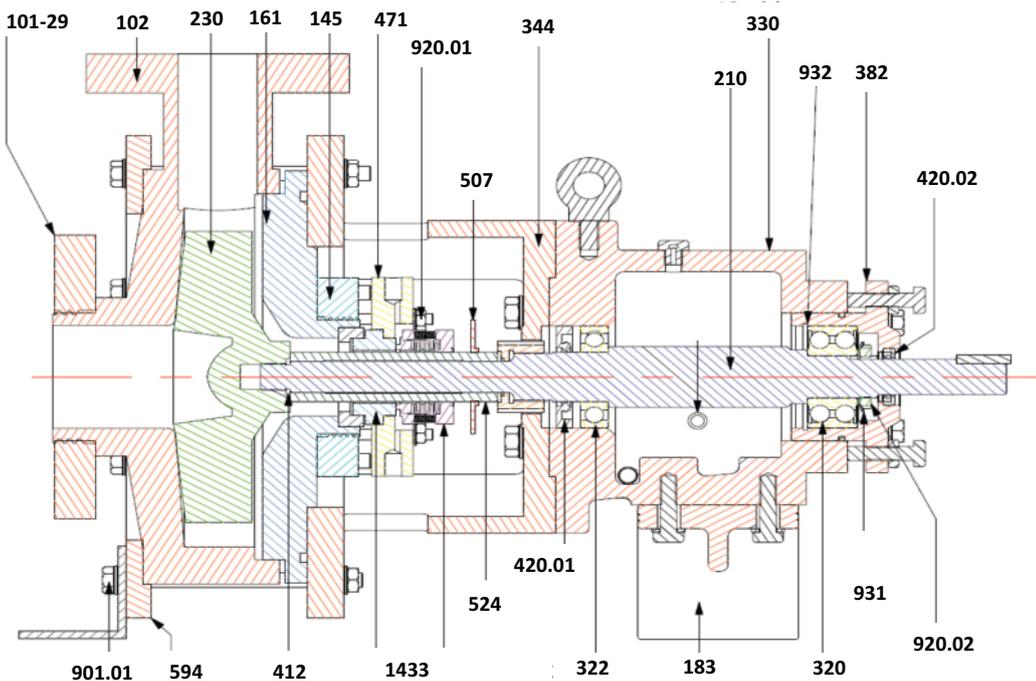
Sectional drawing with component list

For material variant G1, G2, G3 & G4 :

PART NO.	DESCRIPTION
102	VOLUTE CASING
161	DISCHARGE COVER
230	IMPELLER
400.1	GASKET
344	BEARING BRACKET LANTERN
330	BEARING HOUSING
382	BEARING CARRIER DE
360	BEARING COVER NDE
210	SHAFT
524	SHAFT SLEEVE
322	BALL BEARING NDE
320	BALL BEARING DE
932	CIRCLIP
931	LOCK WASHER
920.01 - .03	HEX NUT
420.01	OIL SEAL NDE
420.02	OIL SEAL DE
412	"O" RING IMPELLER
433	MECHANICAL SEAL
901.01 - .02	HEX BOLT
913	VENT PLUG
903.01	HEX HEAD PLUG
183	SUPPORT FOOT

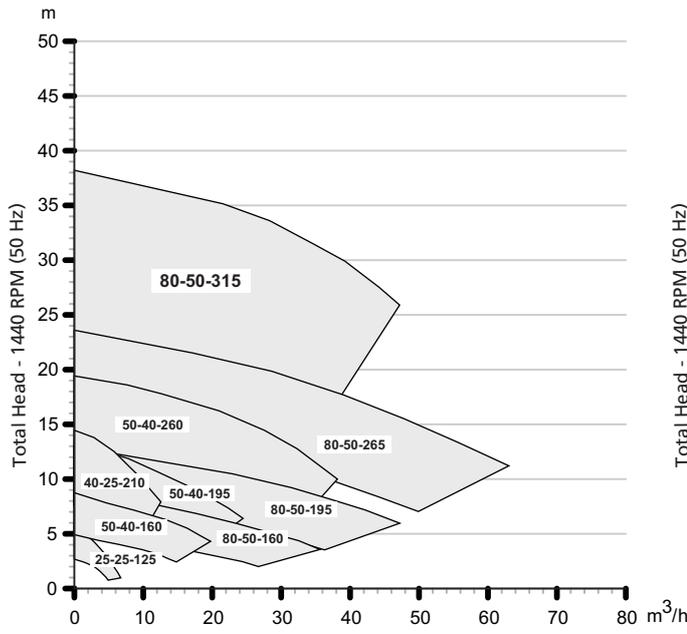


For material variant G5 :

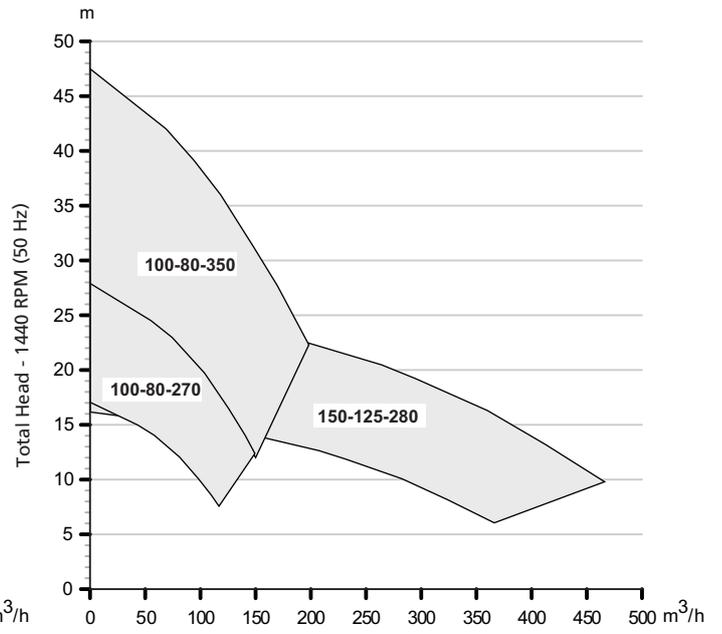


PART NO.	DESCRIPTION
102	VOLUTE CASING
161	DISCHARGE COVER
230	IMPELLER
344	BEARING BRACKET LANTERN
183	SUPPORT FOOT
594	SUPPORT FRAME
101-29	THREADED FLANGE
145	ADAPTER
471	SEAL COVER
330	BEARING HOUSING
382	BEARING CARRIER
210	SHAFT
524	SHAFT SLEEVE
322	BALL BEARING NDE
320	BALL BEARING DE
932	CIRCLIP
931	LOCK WASHER
920.01 - .03	HEX NUT
420.01	OIL SEAL NDE
420.02	OIL SEAL DE
412	"O" RING IMPELLER
433	MECHANICAL SEAL
901.01 - .02	HEX BOLT
507	SPLASH RING (THROWER)

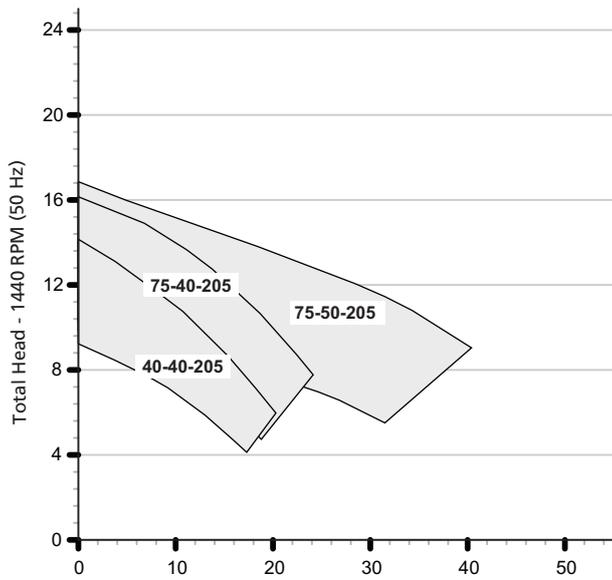
RPM-1440 (G1, G2, G3, G4)



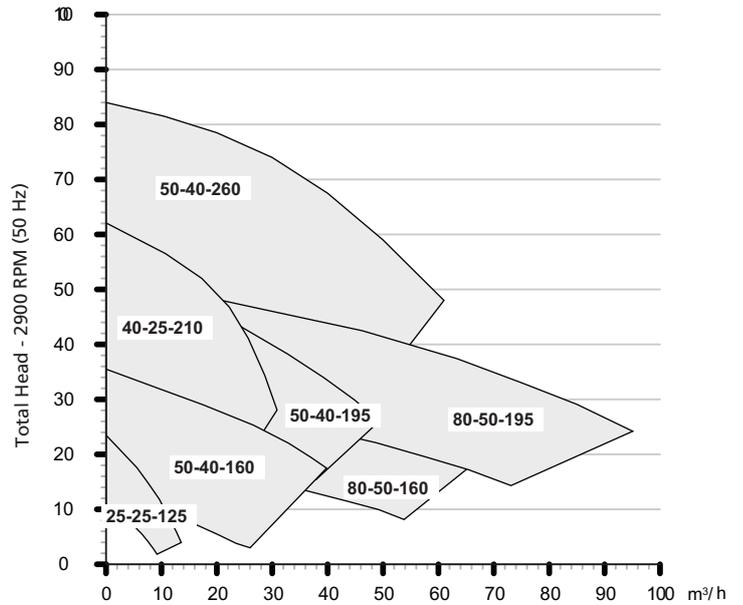
HIGH FLOW



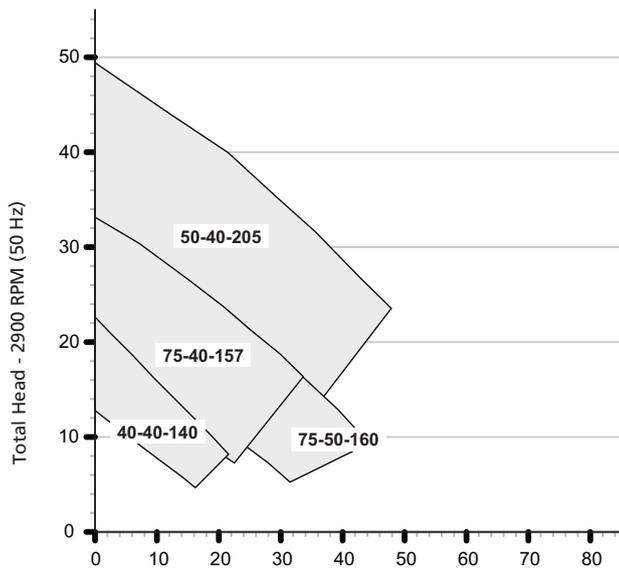
RPM-1440 (G5) :



RPM-2900 (G1, G2, G3, G4)



RPM-2900 (G5)



KSB Limited

Manufacturing Plants :

Head Office & Pimpri :
Irrigation & Process Division
Mumbai-Pune Road, Pimpri,
Pune - 411 018.
Tel.: 020-2710 1000

Chinchwad :
Power Projects Division
D-II Block, MIDC Chinchwad,
Pune - 411 019.
Tel.: 020-2740 9100

Khandala :
Energy Pumps Division
A1, MIDC Khandala Phase II,
Village Kesurdi, Tal. Khandala,
Satara - 412 802.
Tel. : 02169 -246800

Coimbatore :
Valves Division
151, Mettupalayam Road,
NSN Palayam Post,
Coimbatore - 641 031.
Tel.: 0422-2468222, 2468547-9

Sinnar :
Standard Pumps Division
Plot No. E-3 & E-4, MIDC Sinnar,
Nashik - 422 113.
Tel.: 02551-230252 / 53, 229700

Vambori :
Foundry Division
Vambori, Ahmednagar - 413 704.
Tel.: 02426-272534, 272550, 272463

Regd. Office :

Office No. 601, Runwal R-Square,
L.B.S. Marg, Mulund (West),
Mumbai- 400 080,
Tel.: 022-6658 8787

Zonal Offices :

East :
C/o. Mani Casadona Building
East Tower, 10th Floor, 10ES9
IIF/04, Street no. 372, Action Area-IIF,
New Town, Kolkata, W.B.-70015
Tel.: 033 48109017 / 033 48109018

West :
Office No. 601, Runwal R-Square, L.B.S.
Marg, Mulund (West), Mumbai- 400080
Tel.: 022-6658 8787

North :
KSB House, A-96, Sector IV, NOIDA, Dist.
Gautam Budh Nagar - 201 301.
Tel.: 0120-2471 600

South :
Guindy House, II Floor, # 92 Anna Salai,
Chennai - 600 032.
Tel.: 044-2235 2571-2, 2235 5673

Service Stations :

Chennai :
6, Self-help Industrial Estate,
Keelkattalai, Near Keelkattalai -
Pallavaram Radial Road Signal junction,
Chennai 600 117
Tel. 044-22681159

Howrah :
Sadananda Industrial Estate
Howrah Amta Road, Balitikuri, Bakultala
Howrah - 711 113, West Bengal

NOIDA :
KSB House, A-96, Sector IV, NOIDA,
Dist. Gautam Budh Nagar - 201 301.
Tel.: 0120-2471 600

Odhav :
Shed No. 22, Gujarat Vepari
Mahamandal, Odhav,
Ahmedabad - 382 410.
Tel.: 079-2290 0372

Chinchwad :
D-II Block, MIDC Chinchwad,
Pune - 411 019.
Tel.: 020-2740 9100

Baddi:
Plot No.73, DIC Industrial Area Baddi,
Tehsil-Baddi, District-Solan, Himachal
Pradesh - 173205
Tel : +91 98764 12714

Branch Offices :

Bangalore :
2nd Floor, Plot No. 69/A,
Service Road, WOC Road, II Stage,
Bengaluru - 560 086.
Tel.: 080-2349 1806, 2349 3925

Baroda :
4-B, Ramkrishna Chamber,
Productivity Road, Baroda - 390 005.
Tel.: 0265-233 0532, 233 3226

Bhubaneswar :
N5/39, 1st Floor, IRC Village, Nayapalli,
Bhubaneswar - 751 015.
Tel.: 0674-255 8497

Chandigarh :
SCO - 189, 2nd Floor, Sector - 7C,
Chandigarh - 160 019.
Tel. / Fax : 0172-279 0072, 279 0062

Guwahati :
House No. 41, APRO Lane, Dr. BK
Kakoty Road, Ulubari, Guwahati -
781007, Assam.
Tel : 96744 77971

Indore :
Office No 104, 1st Floor, Fortune
Ambience, 4/2 South Tukogunj
Indore - 452001
Tel.: 0731- 4216704, 4216705

Jaipur :
Anjali Chambers, 2nd Floor, Block C,
10, Rajbhawan Road, Civil Lines,
Jaipur - 302 001.
Tel.: 0141-222 4554, 222 4904

Jamshedpur :
Flat no: 301, 3rd Floor, Plot No: 20, Road
No: 2, Sonari West Layout, Sonari,
Jamshedpur - 831011
Tel.: 0657-231 4012, 231 4011

Lucknow :
309, Chintels House, 16, Station Road,
Lucknow - 226 001.
Tel.: 0522-263 5203, 263 5597

Pune :
Mumbai-Pune Road, Pimpri,
Pune - 411 018.
Tel.: 020-2710 1000

Patna :
3rd Floor, Suraj Complex, Sahyogi Press
Lane, Exhibition Road, Patna - 800 001.
Tel.: 70336 80790

Raipur :
1st floor, E-5, Sector-5, Devender Nagar,
Raipur, Chhattisgarh - 492009
Tel.: 0771-258 3658, 258 3921

Secunderabad :
D. No. 12-13-197, 198,
Flat No. 103 & 104, 1st Floor,
Pavani Anusuya Towers, Tarnaka,
Secunderabad - 500 017.
Tel.: 040-2700 1724, 2700 3696

Ernakulam (Kochi) :
Ground Floor, D/No 22/241 (S), Tamrind
Rajadhani, Pulinchode, Aluva
Ernakulam - 683 101
Tel : 62353 55500

Dhaka :
Level - 08, Locus Coworking Space, Tower
52, Plot-52, Block- C, Road-11, Banani,
Dhaka -1213 (Bangladesh)
Tel.: +880 17677 02914

