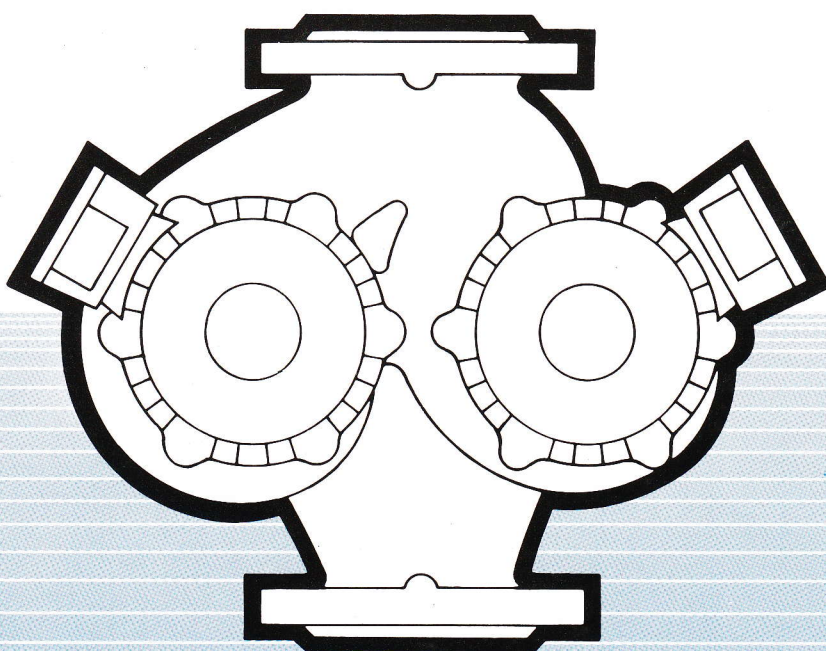


Glandless hot water circulators

D-NTV



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Application

Pumps D-NTV are intended for forced circulation of water in low-pressure systems of central heating and/or air conditioning systems.

Delivered liquid - clean, soft, chemically-neutral or drinking water without mechanical admixtures, anticorrosive treated or mixtures of water and glycol in proportion by volume 1 : 1.

Max. temperature of pumped water 110 °C
 Max. temperature of ambience 40 °C
 Max. delivery pressure 6 bar or 10 bar

Advantages

- This pump in operation may displace two pumps connected in parallel;
- There is a possibility of pump operation with only one or two motor units;
- When operating both drive units double capacity (flow) may be reached like that;
- Two stepped speed control of self-contained motor units allows alternative operation of either one or two motors with maximal and/or minimal speed - speed control may be realized with the aid of switches placed in the motor terminal boards.

Design

These pumps are of close-coupled glandless types, with electric motors cooled by a liquid being pumped. With respect to their construction, they are „twins“, ie. two hydraulic and motor units are positioned in only one pump casing with suction and discharge branches on one axis.

Material options

As standard the „LM“ material version may be considered with the pump main parts in following material quality grades:

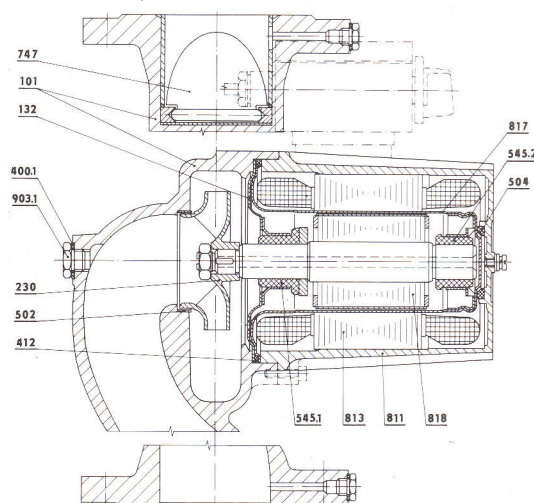
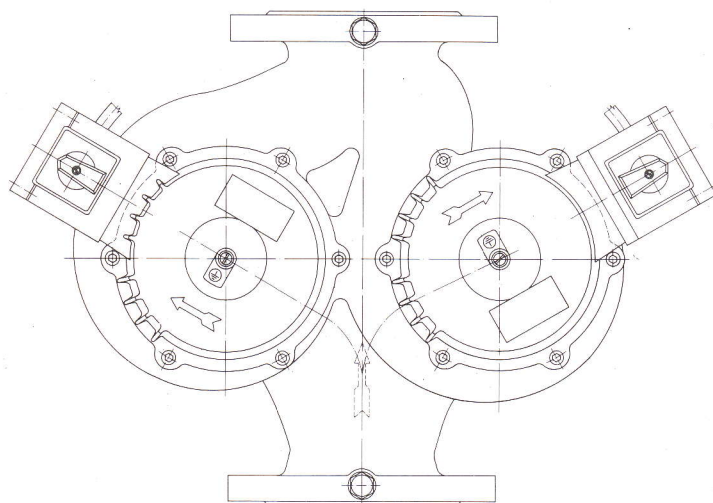
- Pump casing is of grey cast iron;
- Shaft, interstage diaphragm, can and rotor protector are of corrosion-proof steel;
- Impeller is of brass or plastic;
- Bearing bushes are of carbon.

Location and positioning

It is not recommended to install the pump in the lowest and/or highest spot of a heating system. In its lowest spot there fouling and mud silting may occur, in its highest spot then aerating may come into existence.

In front of the pump and behind it valves and checking pressure gauges shall be installed. Piping near-by the pump should be thoroughly fastened to prevent transfer of forces induced by piping expansion or defects arisen during installation works.

Pumps may be mounted in a straight piping inclined as desired, but with electric motor axis always horizontal, to limited deviation +5°.

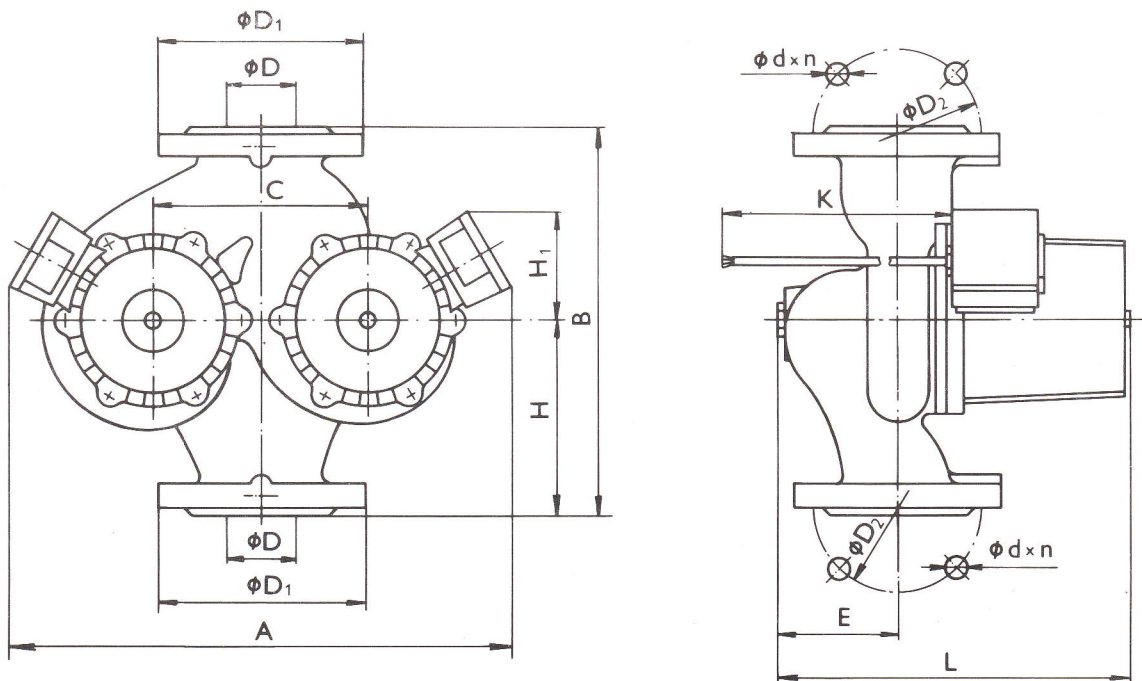


- | | | | |
|----------------------------|--------------------------------------|-----------------------------|-------------|
| 101 - Pump casing | 412 - Interstage diaphragm wear ring | 545.2- Radial bearing bush | 817 - Can |
| 132 - Interstage diaphragm | 502 - Wear ring | 747 - Non return flap valve | 818 - Rotor |
| 230 - Impeller | 504 - Ring of expansion | 811 - Motor casing | 903.1- Plug |
| 400.1- Wear ring | 545.1- Radial-axial bearing bush | 813 - Stator | |

Models Survey and Main Performance Data

Pump Model			D-50-NTV -74-13		D-65-NTV -79-14		D-65-NTV -92-12		D-80-NTV -102-16	
Version (Number of alteration)			003	013	003	013	003	013	003	013
Capacity	Q	(l.s ⁻¹)	2,9 - 6,4		3,5 - 8,6		5 - 11,2		6,5 - 17	
Delivery head	H	(m)	4,1 - 4,3		4,3 - 4,7		5 - 5,9		6,3 - 8,5	
Pump-set power input	P ₁	(W)	285 - 780		400 - 996		580 - 1530		960 - 2680	
Speed	n	(min ⁻¹)	2600 - 2850		2590 - 2810		2570 - 2850		2330 - 2720	
Working pressure max.			p	(bar)	6	10	6	10	6	10
Electric motor			single-purpose		single-purpose		single-purpose		single-purpose	
Voltage	U	(V)	380		380		380		380	
Frequency	f	(Hz)	50		50		50		50	
Cut-out current *)	I	(A)	1,3		1,4		1,8		2,7	
Pump-set weight			m	(kg)	30	32	36	38	44	50

*)Cut-out current value „I“ has been specified for only one motor unit.



Dimensions

Pump type	A	B	C	E	H	H ₁	K	L	Branches								
									for PN 6			for PN 10					
									øD	øD ₁	øD ₂	ød	n	øD	øD ₁	øD ₂	ød
D-50-NTV-74-13	360	140	170	90	280	130	2000	265	50	140	110	14	50	165	125	18	4
D-65-NTV-79-14	390	150	200	95	300			275	65	160	130		65	185	145		
D-65-NTV-92-12	470	360	200	110	180	135	2000	305	80	190	150	18	80	195	160	18	4
D-80-NTV-102-16								325					80	190	150		

Dimension of suction and discharge branches (D) flanges are for PN 10 or they may also be for PN 6, always with raised face.

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D - NTV

We reserve the right to alter specifications
and illustrations without prior notice.

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