

TCHM-TCTM Series

Monostage Centrifugal Pumps



Capacity up to 500 m³/h
Total head up to 10 bar



TCHM-TCTM Series

Monostage Centrifugal Pumps



Built according to ISO standard 2858 and 5199 these sturdy and reliable pumps are available at low price coupled with the easy operation of monobloc units. The series TCHM and TCTM of Travaini are of the highest quality, with attractive prices to the Chemical and Industry in general.

The connections are flanged to UNI2223-2229 NP16 standard. Liquids up to 140 Deg C can be handled. These pumps can cover a wider range of duties and applications than ordinary monoblock pumps and those pumps which are stamped out of sheet metal.

Impellers are sized to meet the specific working point. NPSH requirements are extremely low and hydraulic efficiency is high. Customisation is possible at the standard price.

Available in Ductile iron, 316 stainless steel, Hastelloy C and Alloy 20 for resistance to wear and corrosion. Performance is therefore assured for a long life.

Shrouded and vortex type impellers are available to handle either clean or contaminated liquid. This widens the application of these pumps.

The casings, impellers and casing covers are the same as for type TCH and TCT. This reduces inventory costs and the provision of spare parts at reduced prices.

Standard explosion proof electric motors (ADPE), beside the CVE, can be installed with great cost savings and availability.

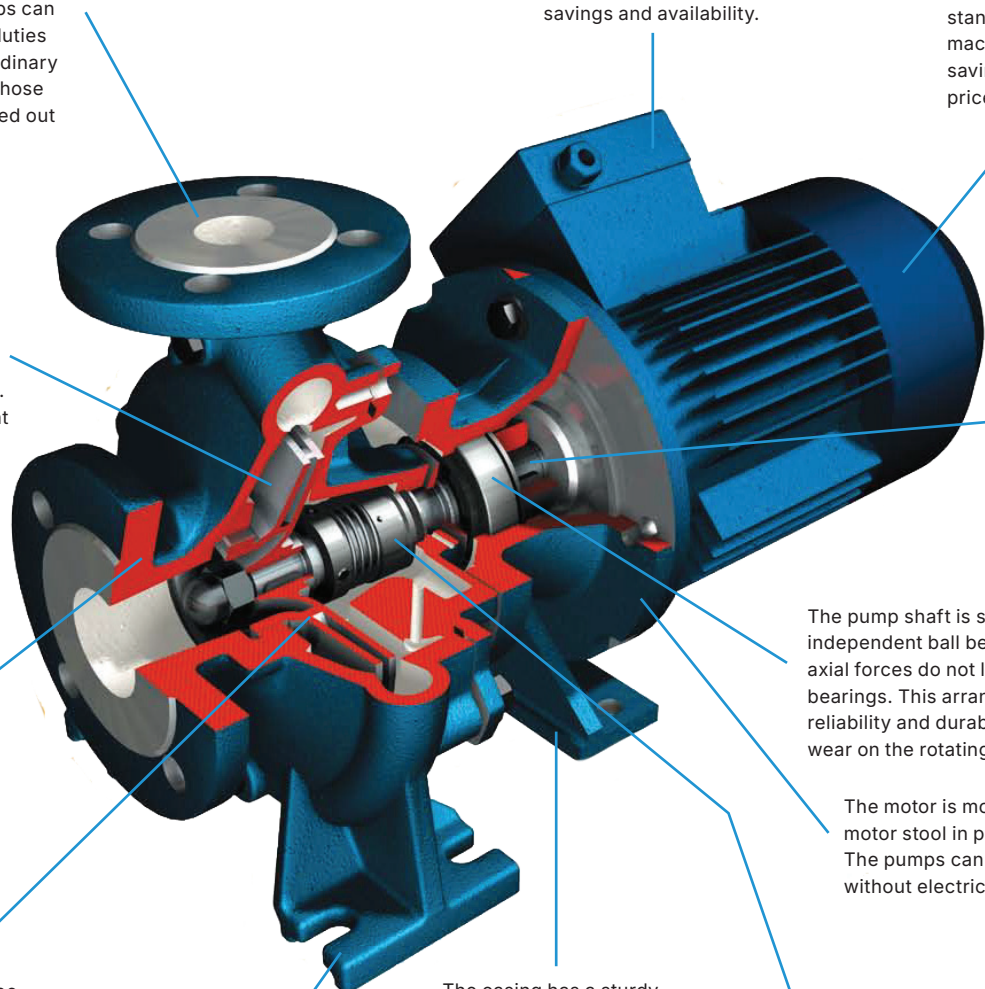
The motors are standard IEC form B5 machines allowing cost saving in purchase price and availability.

The motors are directly coupled to the pump without the provision of flexible couplings. Perfect alignment is guaranteed, less maintenance cost and longer life.

The pump shaft is supported by an independent ball bearing. The radial and axial forces do not load the electric motor bearings. This arrangement affords greater reliability and durability since there is less wear on the rotating component.

The motor is mounted on a flanged motor stool in perfect alignment. The pumps can be purchased without electric motors.

Mechanical seals are to ISO3069/ UNI EN 12756. They are the same size as for the TCH and TCT pumps. There is unlimited choice of material and seal type, minimising the cost of stocking many different seal types.



TCHM-TCTM Series

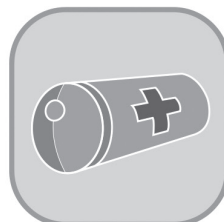
Monostage Centrifugal Pumps



CHEMICAL INDUSTRY



STERILISING EQUIPMENT'S



TEXTILE INDUSTRY



**OIL, WINE AND BEER
PRODUCTION PLANTS**

**WATER WORKS AND
WATER SUPPLY**

FOOD INDUSTRY



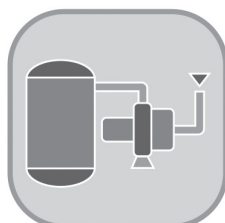
**CONDENSATE
EXTRACTION PLANTS**

**PHARMACEUTICAL
INDUSTRY**



WATER TREATMENT

AUTOCLAVE PLANTS

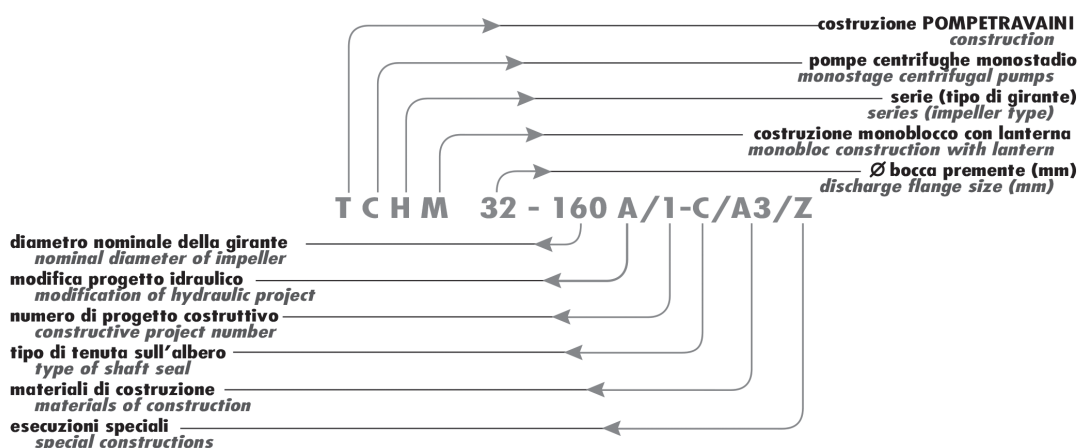


TCHM-TCTM Series

Monostage Centrifugal Pumps



Example for model designation



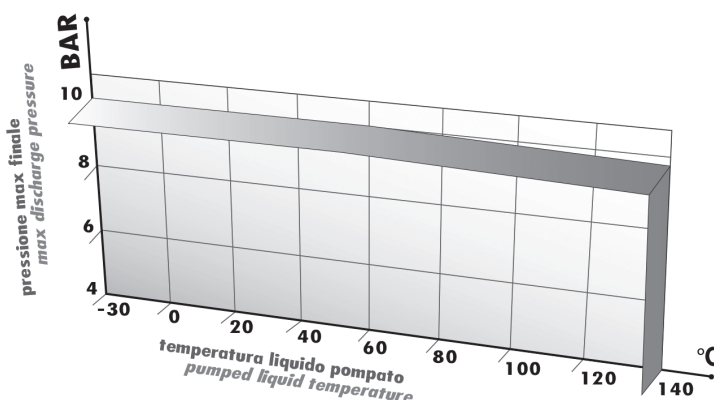
Standard materials of construction

VDMA	DESCRIZIONE description	GS	RA	A3
102	corpo pompa pump casing	ghisa sferoidale ductile iron	AISI 316 stainless steel ASTM-CF8M	AISI 316 stainless steel ASTM-CF8M
161	coperchio corpo casing cover			
210	albero shaft	ghisa cast iron	AISI 316 stainless steel ASTM-CF8M	AISI 316 stainless steel ASTM-CF8M
230	girante impeller			
330	supporto bearing housing	ghisa cast iron	AISI 316 stainless steel ASTM-CF8M	AISI 316 stainless steel ASTM-CF8M

TCTM the material of impeller VDMA 230 is AISI 316 Stainless steel also for GS constructions.

SPECIAL MATERIALS AVAILABLE REQUEST
Indicative table: for further information pls consult our Sales Office

Pressure and temperature limits



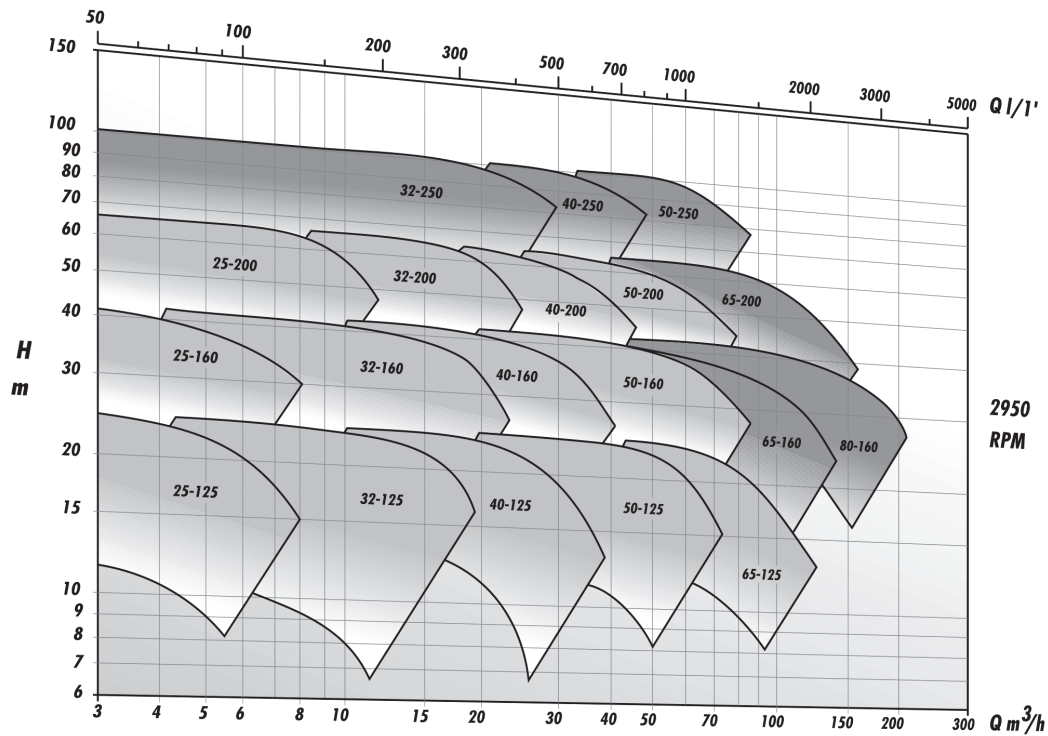
Limitations valid for constructions A3. For GS and RA constructions the minimum temperature limit is -15 °C. Values not valid for pumping of overheated water and similar liquids.

TCHM-TCTM Series

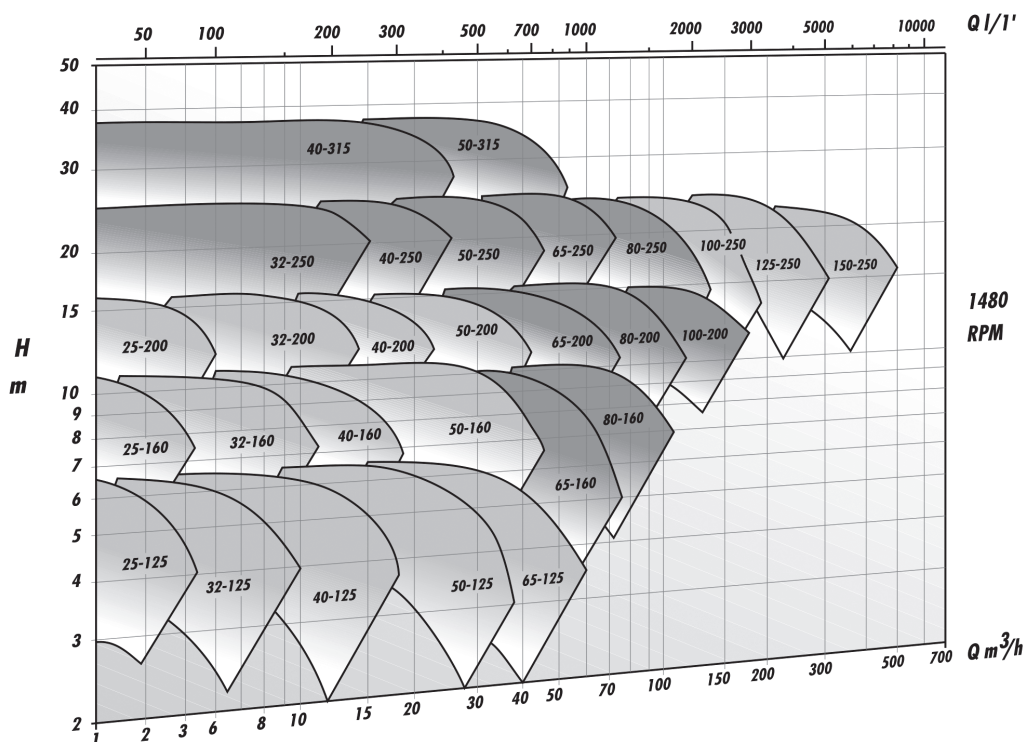
Monostage Centrifugal Pumps



Performance fields – closed impeller



TCHM Series

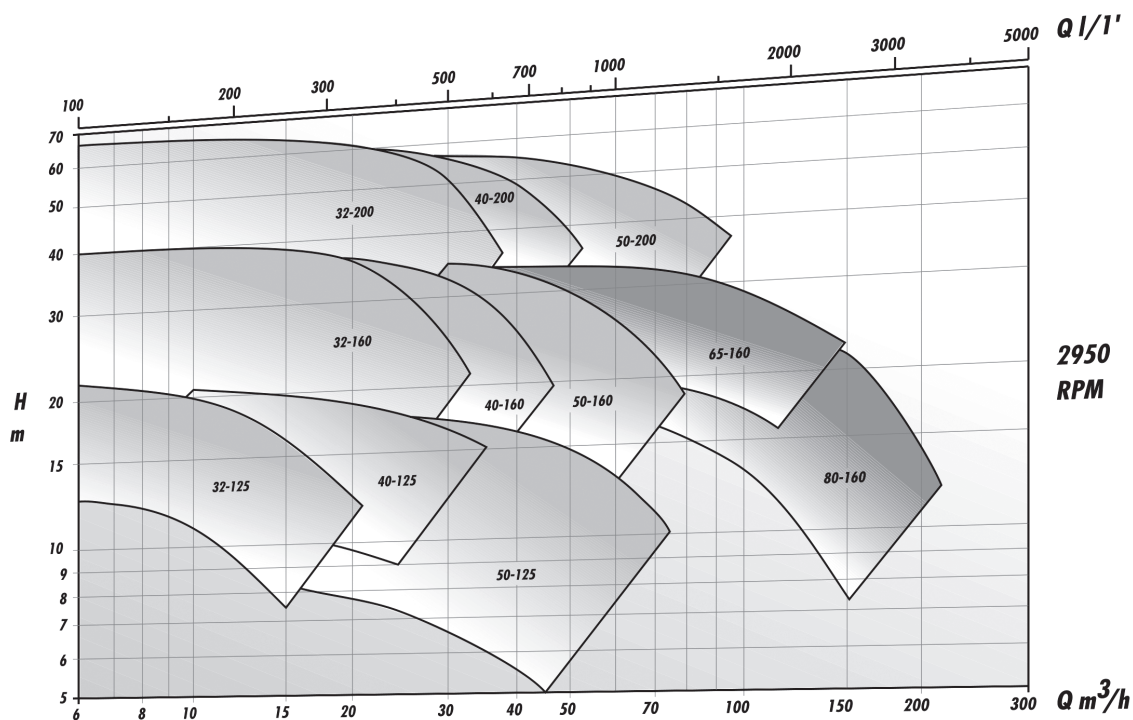


TCHM-TCTM Series

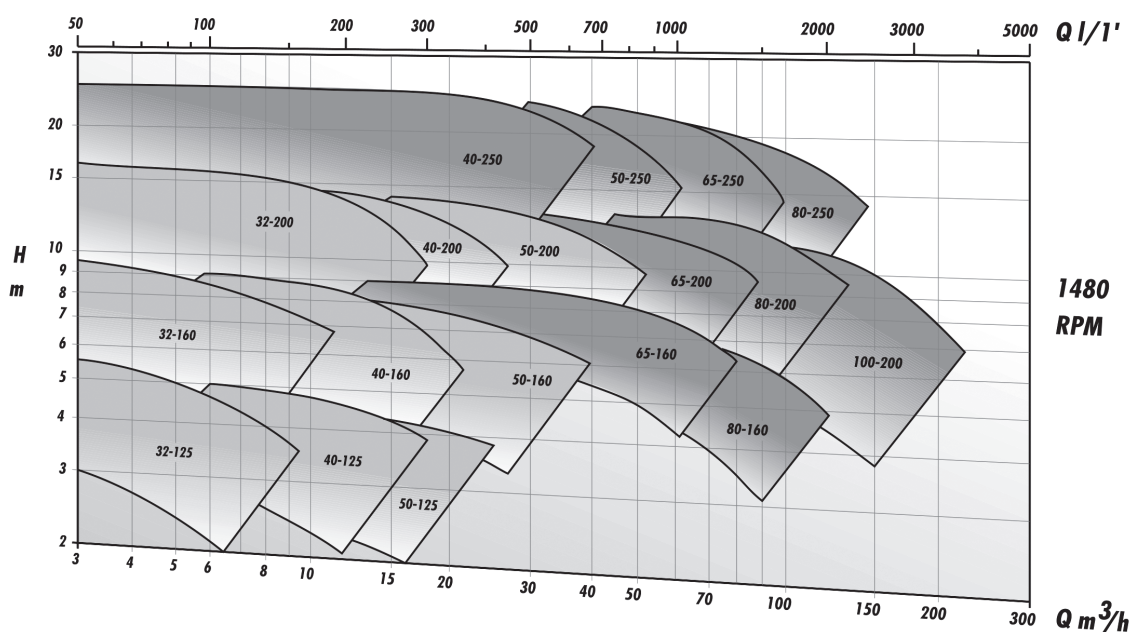
Monostage Centrifugal Pumps



Performance fields – open impeller



TCTM Series

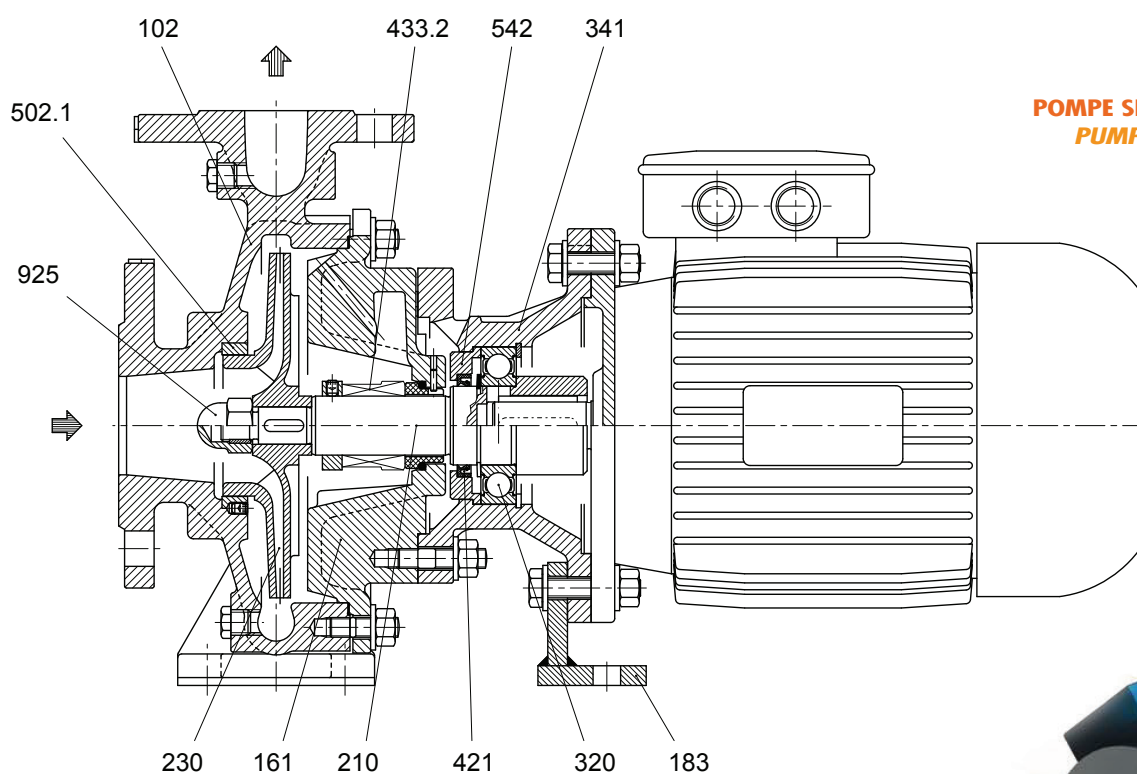


Dati indicativi riferiti ad acqua a temperatura ambiente. Per le curve di funzionamento specifiche contattare la POMPETRAVAINI.
Not binding data refers of water at room temperature. For specific performance curves contact POMPETRAVAINI.

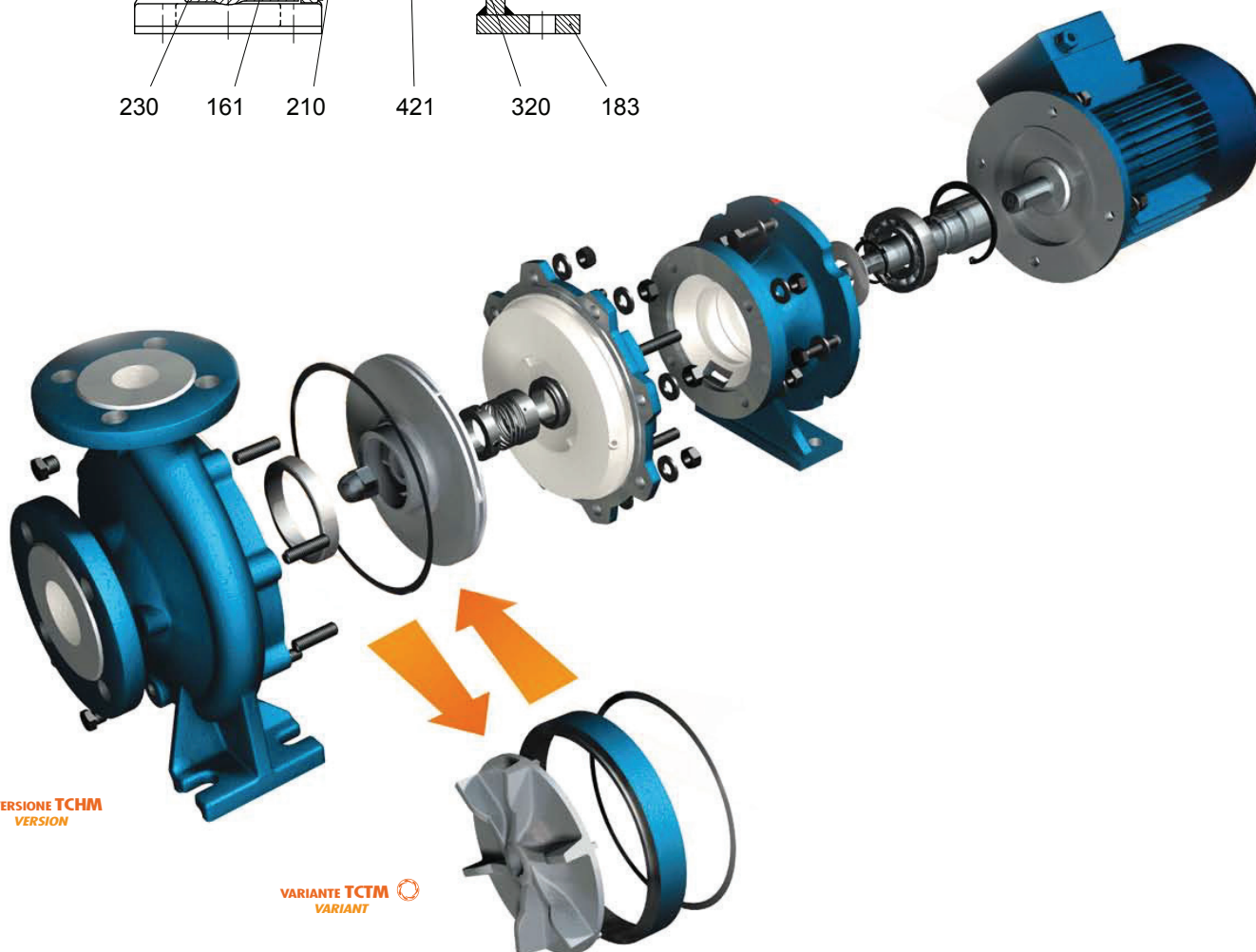
N.B.: La potenza max installata non deve mai essere superiore a 30 kW. Per ulteriori informazioni sulle grandezze installabili vedere le dimensioni d'ingombro.
REMARKS: The maximum installed power must be never higher than 30 kW. For further information about installable sizes please see overall dimensions.

TCHM-TCTM Series

Monostage Centrifugal Pumps



POMPE SERIE **TCHM** 
PUMPS SERIES



 VERSIONE **TCHM**
VERSION

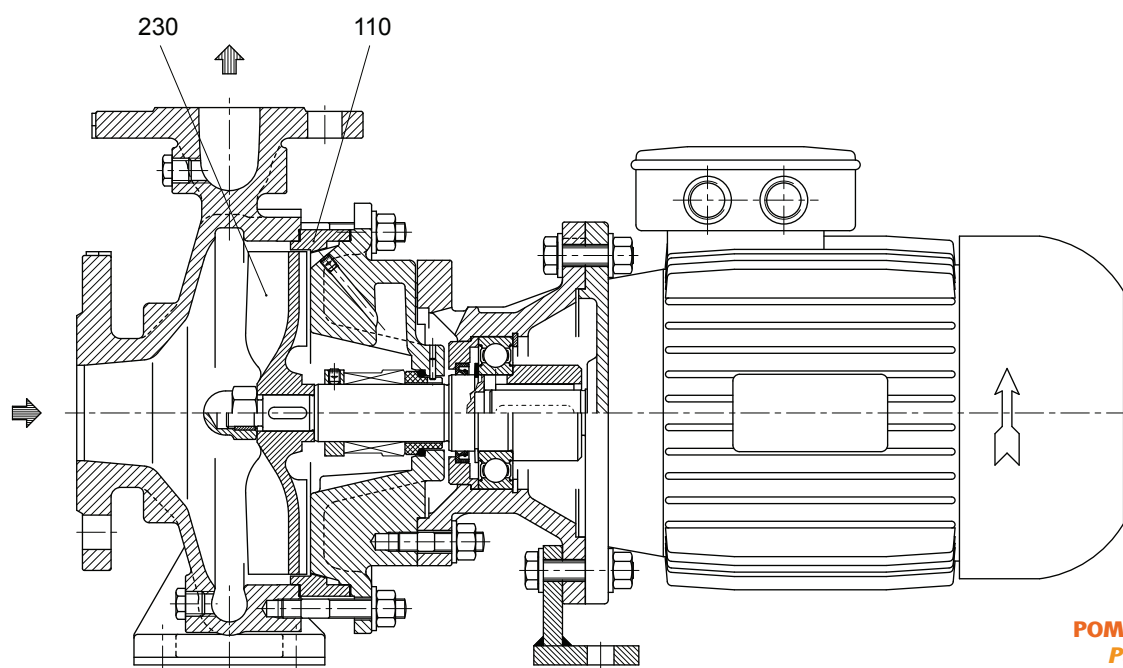
VARIANTE **TCTM** 
VARIANT

TCHM-TCTM Series

Monostage Centrifugal Pumps



components	
VDMA	DESIGNATION
102	pump casing
110	spacer
161	casing cover
183	support foot
210	shaft
230	impeller
320	ball bearing
341	support lantern
433.2	mechanical seal
502.1	wear ring
925	impeller locking nut

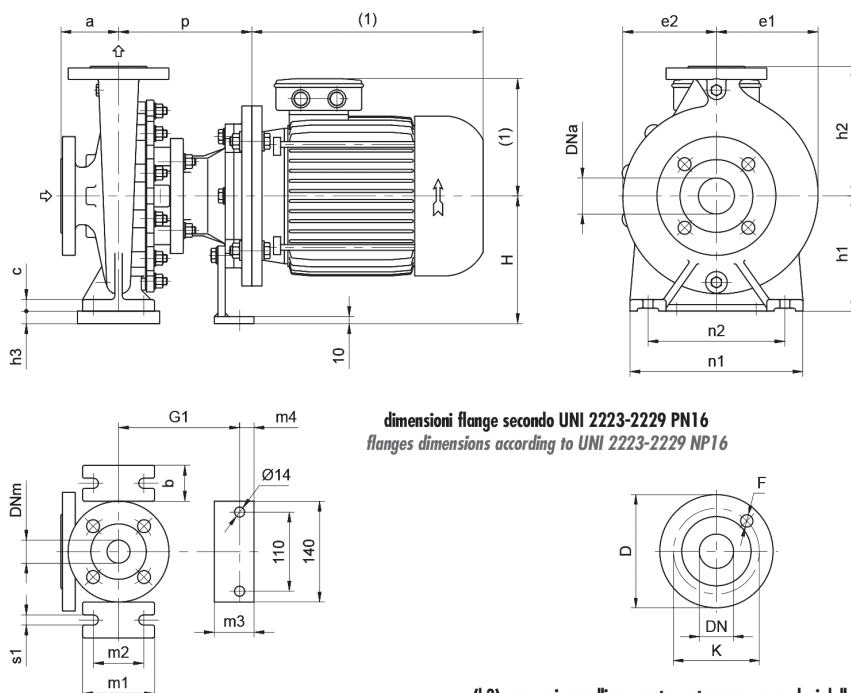


TCHM-TCTM Series

Monostage Centrifugal Pumps



Overall dimensions



dimensioni flange secondo UNI 2223-2229 PN16
flanges dimensions according to UNI 2223-2229 NP16

dimensione flange flanges dimensions				
DNa DNm	D	K	F	N° fori holes
25	115	85	14	4
32	140	100	18	4
40	150	110	18	4
50	165	125	18	4
65	185	145	18	4
80	200	160	18	8
100	220	180	18	8
125	250	210	18	8
150	285	240	22	8
200	340	295	22	12

Disegno schematico. Dimensioni in mm con tolleranze secondo EN 735-1995.
Pesi indicativi in Kg. riferiti a pompe in ghisa escluso motore, non impegnativi.
Schematic drawing. Dimensions in mm with tolerances to EN 735-1995 standards. Weights in Kgs, referred to pumps in cast iron without motor, not certified.

(h3) spessori per allineamento motore-pompa esclusi dalla fornitura.

(h3) raising pads motor-pump alignment are not supplied by Pompetravaini.

dimensioni piede motore motor foot dimensions		
gruppo group	m3	m4
1-2	55	20
3	200	100

motori elettrici electric motors				
Grandezza Frame size	giri/min. RPM 1450		giri/min. RPM 2900	
	kW	HP	kW	HP
80 M	0.55	0.7	0.75	1
	0.75	1	1.1	1.5
90 S	1.1	1.5	1.5	2
90 L	1.5	2	2.2	3
	2.2	3	3	4
100 L	3	4	4	5.5
	4	5.5	5.5	7.5
112 M	5.5	7.5	7.5	10
132 S	7.5	10	10	15
132 M	11	15	15-20	25
160 M	15	20	18.5	25
180 M	18.5	25	22	30
180 L	22	30	-	-
200 L	30	40	-	-

POMPA TIPO <i>Pump type</i>	dimensioni costruttive / <i>construction dimensions</i>															
	gr.	DNa	DNm	a	h1	h2	b	c	m1	m2	n1	n2	s1	e1	e2	
25-125	1	40	25	80	112	140	50	15	100	70	190	140	14	95	90	
25-160	1	40	25	80	132	160	50	16	100	70	240	190	14	110	108	
25-200	1	40	25	80	160	180	50	16	100	70	240	190	14	133	128	
32-125 	1	50	32	80	112	140	50	15	100	70	190	140	14	105	91	
32-160 	1	50	32	80	132	160	50	16	100	70	240	190	14	125	110	
32-200 	1	50	32	80	160	180	50	16	100	70	240	190	14	140	130	
40-125 	1	65	40	80	112	140	50	15	100	70	210	160	14	115	100	
40-160 	1	65	40	80	132	160	50	16	100	70	240	190	14	130	115	
40-200 	1	65	40	100	160	180	50	16	100	70	265	212	14	146	135	
50-125 	1	80	50	100	132	160	50	16	100	70	240	190	14	130	110	
50-160 	1	80	50	100	160	180	50	16	100	70	265	212	14	147	125	
50-200 	1	80	50	100	160	200	50	16	100	70	265	212	14	161	146	
65-125	1	100	65	100	160	180	65	16	125	95	280	212	14	145	117	
32-250	2	50	32	100	180	225	65	18	125	95	320	250	14	166	162	
40-250 	2	65	40	100	180	225	65	18	125	95	320	250	14	176	163	
40-315	2	65	40	125	200	250	65	18	125	95	345	280	14	205	200	
50-250 	2	80	50	125	180	225	65	18	125	95	320	250	14	183	169	
50-315	2	80	50	125	225	280	65	18	125	95	345	280	14	210	197	
65-160 	2	100	65	100	160	200	65	16	125	95	280	212	14	160	130	
65-200 	2	100	65	100	180	225	65	18	125	95	320	250	14	174	152	
65-250 	2	100	65	125	200	250	80	20	160	120	360	280	18	195	175	
80-160 	2	125	80	125	180	225	65	16	125	95	320	250	14	186	142	
80-200 	2	125	80	125	180	250	65	18	125	95	345	280	14	188	158	
80-250 	2	125	80	125	225	280	80	20	160	120	400	315	18	225	185	
100-200 	2	125	100	125	200	280	80	20	160	120	360	280	18	211	170	
100-250	3	125	100	140	225	280	80	20	160	120	400	315	18	215	183	

(1) Dimensioni in funzione della marca del motore installato.

(1) Not certified dimensions according to installed motor manufacture.

TCHM-TCTM Series

Monostage Centrifugal Pumps



Overall dimensions

POMPA TIPO Pump type		motore / motor 80-90				motore / motor 100 - 112					motore / motor 132					motore / motor 160					motore / motor 180 - 200	
TCHM	gr.	p	G1	peso weight	p	G1	h3	H	peso weight	p	G1	h3	H	peso weight	p	G1	h3	H	peso weight			
25-125	1	158	116	21.5	183	116	20	132	25.5	207	115	48	160	26.5	236	115	68	180	40	-		
25-160	1	160	168	26	185	118	-	-	30	209	167	28	160	31.5	238	167	48	180	44.5			
25-200	1	158.5	166.5	33	183.5	166.5	-	-	37	207.5	165.5	-	160	38.5	236.5	165.5	20	180	51.5			
32-125	1	160	118	24.5	185	118	20	132	28.5	209	117	48	160	29.5	238	117	68	180	43			
32-160	1	160	168	29	185	118	-	-	33	209	167	28	160	34	238	167	48	180	47			
32-200	1	160	168	36	185	168	-	-	40	209	167	-	160	41	238	165	20	180	54.5			
40-125	1	160	118	26.5	185	118	20	132	30.5	209	117	48	160	31.5	238	117	68	180	44.5			
40-160	1	160	168	30.5	185	118	-	-	34.5	209	167	28	160	35.5	238	167	48	180	48.5			
40-200	1	160	168	39	185	168	-	-	43	209	167	-	160	44	238	167	20	180	57			
50-125	1	160	121	31	185	121	-	-	35	209	120	28	160	36	238	120	48	180	49			
50-160	1	160	168	36.5	185	168	-	-	40.5	209	167	-	160	42	238	167	20	180	55			
50-200	1	160	168	43	185	168	-	-	47	209	167	-	160	48	238	167	20	180	61			
65-125	1	165	168	39	190	168	-	-	43	214	167	-	160	44	243	167	20	180	57	Solo costruzione / Only construction TCHM /B35 gr.2		
32-250	2	173.5	181.5	55	198.5	181.5	-	-	59	222.5	180.5	-	180	60.5	251.5	180.5	-	180	74			
40-250	2	175	183	56	200	183	-	-	60	224	182	-	180	61.5	253	182	-	180	75			
40-315	2	173.5	181.5	72	198.5	181.5	-	-	76.5	222.5	180.5	-	200	77.5	251.5	180.5	-	200	91			
50-250	2	173.5	181.5	58	198.5	181.5	-	-	62.5	222.5	180.5	-	180	64	251.5	180.5	-	180	77.5			
50-315	2	173.5	181.5	77.5	198.5	181.5	-	-	82	222.5	180.5	-	225	83	251.5	180.5	-	225	97			
65-160	2	175	183	45	200	183	-	-	49	224	182	-	160	50.5	253	182	20	180	64			
65-200	2	175	183	52	200	183	-	-	56	224	182	-	180	57.5	253	182	-	180	71			
65-250	2	173.5	181.5	68.5	198.5	181.5	-	-	73	222.5	180.5	-	200	74	251.5	180.5	-	200	87.5			
80-160	2	175	184	56.5	200	184	-	-	61	224	183	-	180	62	253	183	-	180	75.5			
80-200	2	173.5	181.5	57.5	198.5	181.5	-	-	62	222.5	180.5	-	180	63	251.5	180.5	-	180	77			
80-250	2	173.5	181.5	79	198.5	181.5	-	-	83.5	222.5	180.5	-	225	85	251.5	180.5	-	225	98.5			
100-200	2	178	183	72	203	183	-	-	76.5	227	182	-	200	77.5	265	180	-	200	91	Solo costruzione / Only construction TCHM /B35 gr.3		
100-250	3	-	-	-	-	-	-	-	-	236	279	-	225	102								
125-250	3	-	-	-	-	-	-	-	-	236	279	-	250	118								
150-250	3	-	-	-	-	-	-	-	-	-	-	-	-	-								

POMPA TIPO Pump type		motore / motor 80-90			motore / motor 100 - 112					motore / motor 132					motore / motor 160					motore / motor 180	
TCTM	gr.	P	G1	peso weight	P	G1	h3	H	peso weight	P	G1	h3	H	peso weight	P	G1	h3	H	peso weight		
32-125	1	180	138	26	205	138	20	132	30	229	137	48	160	31	258	137	68	180	44		
32-160	1	186.5	194.5	31	211.5	138	-	-	35	235.5	193.5	28	160	36	264.5	193.5	48	180	49.5		
32-200	1	186.5	194.5	39	211.5	194.5	-	-	43	235.5	193.5	-	160	44.5	264.5	193.5	20	180	57.5		
40-125	1	180	138	27.5	205	138	20	132	31.5	229	137	48	160	33	258	137	68	180	46		
40-160	1	186.5	194.5	32.5	211.5	138	-	-	36.5	235.5	193.5	28	160	37.5	264.5	193.5	48	180	51		-
40-200	1	186.5	194.5	42	211.5	194.5	-	-	46	235.5	193.5	-	160	47	264.5	193.5	20	180	60.5		
50-125	1	180	141	32	205	141	-	-	36	229	140	28	160	37	258	140	48	180	50.5		
50-160	1	186.5	194.5	39	211.5	194.5	-	-	43	235.5	193.5	-	160	44	264.5	193.5	20	180	57		
50-200	1	186.5	194.5	46	211.5	194.5	-	-	50	235.5	193.5	-	160	51	264.5	193.5	20	180	64		
40-250	2	208	216	60	233	216	-	-	64	257	215	-	180	65.5	286	215	-	180	79		
50-250	2	206.5	214.5	62.5	231.5	214.5	-	-	67	255.5	213.5	-	180	68	284.5	213.5	-	180	81.5		
65-160	2	201.5	209.5	47	226.5	209.5	-	-	51.5	250.5	208.5	-	160	52.5	279.5	208.5	20	180	66		
65-200	2	201.5	209.5	55	226.5	209.5	-	-	59.5	250.5	208.5	-	180	60.5	279.5	208.5	-	180	74		
65-250	2	213	221	73	238	221	-	-	77	262	220	-	200	78.5	291	220	-	200	92		
80-160	2	201.5	210.5	58.5	226.5	210.5	-	-	63	250.5	209.5	-	180	64	279.5	209.5	-	180	78		
80-200	2	200	208	61	225	208	-	-	65	249	207	-	180	66.5	278	207	-	180	80		
80-250	2	213	221	84	237.5	221	-	-	88	262	220	-	225	89.5	290.5	220	-	225	103		
100-200	2	204.5	209.5	75	229.5	209.5	-	-	79.5	253.5	208.5	-	200	81	282.5	208.5	-	200	94.5		

Solo costruzione / Only construction
TCTM /B35 gr.2

Available in New Zealand from:

Prime Fluid Management
Head Office: 10 Chesterfield St
Greymouth, West Coast

0800 482 747
primefluid.co.nz
info@primefluid.co.nz

