

BROCHURE VERTICAL SERIES

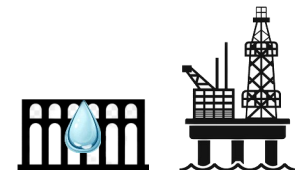
BIRAGHI POMPE 1906



- *ITALIAN QUALITY*
- *SINCE 1906*

Vertical Centrifugal Process Pumps

2024



VERTICAL SERIES—BIRAGHI POMPE 1906

VERTICAL PROCESS PUMP

A new series designed to obtain very high pressure and the optimum in efficiency such to contribute in a real notable way to the auspicate energy saving as certified by the institute of physics of the high prestige University of Bologna.

The pump of the new series can perform very high pressure of over 40 bar.

All new drive units designed for low energy intake with reduced power losses.

A conventional centrifugal pump provides a very efficient method of moving fluids in large volume, typically with a low viscosity and medium to small solids, though models are available for handling more difficult fluids. A centrifugal pump is a pump based on a rotodynamic principle. That makes this pump ideal for the transportation of polluted and abrasive liquids.

A centrifugal pump has a casing, with an impeller in the case: the component which transfers the energy from the motor drive into the fluid. Impellers are available in many configurations including shrouded, open and screw-type. The variation allows different fluids to be handled from water-thin, clean fluids through to handling larger solids such as potatoes or slurry suspensions such as liquid lime chemical.

VERTICAL SERIES—BIRAGHI POMPE 1906

APPLICATION

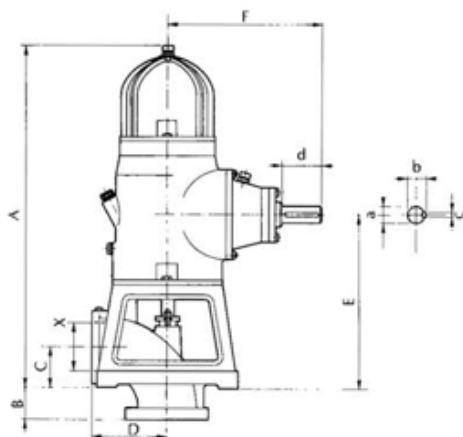
To generally transfer clear or moderately impure water, without chemical agents, up to 105 C.:

- ⇒ Acqueduct plants
- ⇒ Hydraulic press controll
- ⇒ Car washing plants
- ⇒ Steam boiler feeding at high pressure values
- ⇒ Water lifting from mines
- ⇒ Fire fighting system
- ⇒ Rain irrigation
- ⇒ Condensate extraction
- ⇒ Liquid gas and any other hydrocarbons conveying
- ⇒ Hot oils conveying etc...

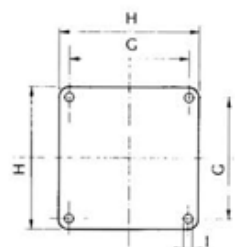


VERTICAL SERIES—BIRAGHI POMPE 1906

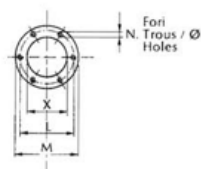
OVERALL SIZES - RIGHT ANGLES GEAR DRIVE UNIT



TIPO TYPE	X	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Peso Weight Poids Kg.
TO 103 / N 70	85	684	52	100	180	374	305	270	315	18	75
TO 104 / N 70	105										
TO 155 / N 70	125										
TO 156 / N 70	150	736	40	105	215	425	354	310	360	20	105
TO 103 / N 110	85										
TO 104 / N 110	105										
TO 155 / N 110	125	777	40	105	215	435	420	310	360	20	135
TO 156 / N 110	150										
TO 1555 / N 175	125										
TO 1565 / N 175	150	856				449					170



SPORGENZE D' ALBERO	Rinvio ad angolo Right angle gear drive Renvoi d'angle	a (h 8)	b mm	c mm	d mm
SHAFT PROJECTION					
	TO / N 70	35	38	10	70
	TO / N 110	40	43,5	12	90
	TO / N 175	45	49	14	100
SAILLIE D' ARBRE					



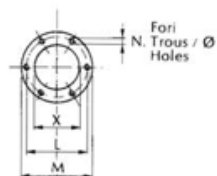
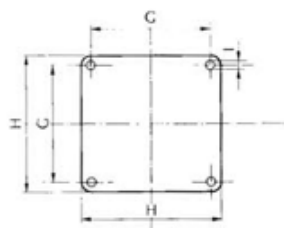
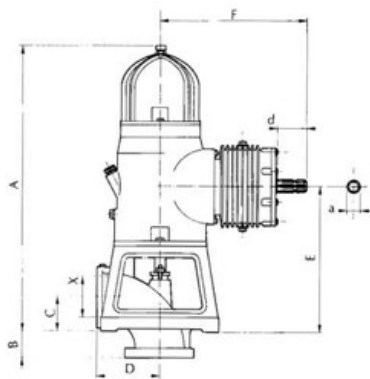
BOCCHIE DI SCARICO	Testata Drive Unit Groupe d' angle	X	L mm	M mm	Fori Holes Trous Ø	N.
OUTLET PORTS	103	85	145	175	M12	5
	104	105				
ORIFICES DE REFOULEMENT	155 - 155 S	125	184	210	M12	6
	156 - 156 S	150				

RATIOS

TO / N 70	R =	1 + 1,25	1 + 1,5	1 + 1,75
TO / N 110	R =	1 + 1,25	1 + 1,5	1 + 1,75
TO / N 175	R =	1 + 1,25	1 + 1,56	1 + 1,75

VERTICAL SERIES—BIRAGHI POMPE 1906

OVERALL SIZES - RIGHT ANGLES AND STEP UP GEAR DRIVE UNITS



TIPO TYPE	X	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Peso Weight Poids Kg.
TMF 103 / N 40	85	684	52	100	180	374	371	270	315	18	92
TMF 104 / N 40	105										
TMF 155 / N 40	125										
TMF 156 / N 40	150	736	40	105	215	425		310	360	20	122
TMF 103 / N 65	85	723	52	100	180	384	402	270	315	18	122
TMF 104 / N 65	105										
TMF 155 / N 65	125										
TMF 156 / N 65	150	777				435					152
TMF 154 S / N 100	105	856	40	105	215	449	444	310	360	20	200
TMF 155 S / N 100	125										
TMF 156 S / N 100	150										

SPORGENZE D' ALBERO	Rinvio con moltiplicatore Right angle gear drive Renvoi d'angle	a mm	d mm
SHAFT PROJECTION	TMF / N 40	1 3/8"	82
SAILLIE D' ARBRE	TMF / N 65		
	TMF / N 110		

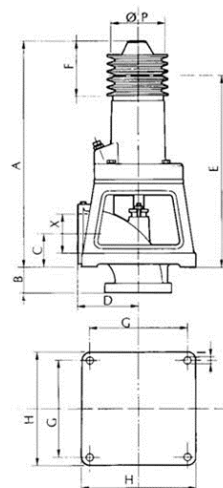
RATIOS

BOCCHIE DI SCARICO	Testata Drive Unit Groupe d' angle	X	L mm	M mm	Fori Holes Trous Ø	N.
OUTLET PORTS ORIFICES DE REFOULEMENT	103	85	145	175	M12	5
	104	105				
	154 S	105				
	155 - 155 S	125	184	210	M12	6
	156 - 156 S	150				

TMF / N 40	R = 1 ÷ 5,1	1 ÷ 5,54	1 ÷ 5,97
TMF / N 65	R = 1 ÷ 4,9	1 ÷ 5,4	1 ÷ 6,08
TMF / N 110	R = 1 ÷ 4,83	1 ÷ 5,4	1 ÷ 6,08

VERTICAL SERIES—BIRAGHI POMPE 1906

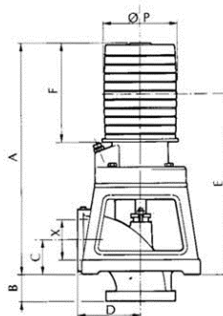
OVERALL SIZES - VERTICAL PULLEY UNITS



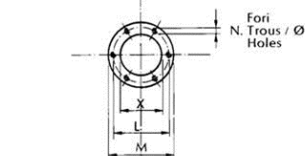
CON PULEGGIA A GOLE
WITH RACES VERTICAL PULLEY
AVEC POULIE VERTICALE A GORGES

TIPO TYPE	X	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Ø P *	Peso Weight Poids Kg.	
TP 103 / G / 55	85	534	52	100	180	432	106	270	315	18	170 5B	67	
TP 104 / G / 55	105											75	
TP 155 / G / 55	125	586	40	105	215	487		310	360	20		83	
TP 156 / G / 55	150											88	

CON PULEGGIA PIANA
WITH FLAT VERTICAL PULLEY
AVEC POULIE VERTICALE PLATE



TIPO TYPE	X	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Ø P *	Peso Weight Poids Kg.	
TP 103 / P / 50	85	588	60	100	180	456	240	270	315	18	170	62	
TP 104 / P / 50	105											80	
TP 155 / P / 50	125	643	40	105	215	511		310	350	20		85	
TP 156 / P / 50	150											90	

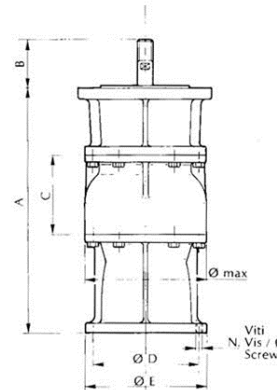


BOCCHIE DI SCARICO	Testata Drive Unit Groupe d'angle	X	L mm	M mm	Fori Holes Trous Ø N.	
OUTLET PORTS	103	85	145	175	M12	5
ORIFICES DE REFOULEMENT	104	105				
	155	125	184	210	M12	6
	156	150				

* A RICHIESTA PULEGGIA DI ALTRE DIMENSIONI — DIFFERENT SIZE PULLEYS ON REQUEST — SUR DEMANDE POULIES D'AUTRES DIMENSIONS

VERTICAL SERIES—BIRAGHI POMPE 1906

OVERALL SIZES - BOWL ASSEMBLY



Ø nominale pozzo	TIPO TYPE TYPE	A	B	C	D	E	Viti Screw Vis		Ø max	Peso Weight Kg	
							Ø	N.		Peso per il 1. stadio First stage weight Poids pour la 1.er etage	* kg
6"	43PN	356	80	96	127	142	10	8	142	15	5
	53PN									15	5
	63PN									15	5
7"	74PN	370	80	110	152	168	10	8	168	19	7,5
8"	83PN	382	80	112	168	192	12	6	192	30	9,5
	104PN									30,5	9,5
	115PN	400	80	130	168	192	12	6	192	33	11
	125PN									33	11
10"	156PN	429	80	159	206	234	16	6	235	48	20
	166PN									48	20

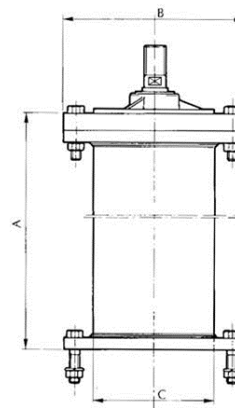
* PESO DA AGGIUNGERE PER OGNI STADIO IN PIÙ
* WEIGHT OF EACH ADDED STAGE
* AJOUTER CE POIDS POUR CHAQUE ETAGE EN PLUS.

Capacity	to 450 m ³ /hr
Head	to 50 m
Max working	to 5 bar
Temperature	to 105 C°

DIMENSIONI DI INGOMBRO E PESI
OVERALL DIMENSIONS AND WEIGHTS
DIMENSIONS D'ENCOMBREMENT ET POIDS

LINEA D'ASSE
LINESHAFT
LIGNE D'ARBRE

L.A.



TIPO TYPE	A mm	B mm	C mm	Peso Weight Poids Kg.
L.A. 3/20	3000	142	89	33
L.A. 3/24				37
L.A. 4/20		175	114	44
L.A. 4/24				48
L.A. 4/30		192	133	52
L.A. 5/20				58
L.A. 5/24				62
L.A. 5/30				66
L.A. 6/24		234	168	76
L.A. 6/30				81
L.A. 6/35				87

Biraghi Pompe 1906 Plants



NIGERIA



UAE



ITALY



Biraghi
POMPE1906

HEADQUARTERS:

Via della Giardina 11, Monza, 20900

Contacts:

+39 02-89680866

info@biraghipompe1906.it