



Irritecnica

# Flanged pipes catalogue



2023



# Flanged pipes catalogue

## **Product Technical Notes.**

The data and technical characteristics reported in this Catalogue are not binding. Irritecnica S.a.s. reserves the right to make any changes without notice. Consequently, weights, measurements, performances and anything else indicated are not binding but only indicative. In any case, for any technical details contact Irritecnica by email or telephone to obtain updated product information.

## **Jurisdiction.**

For any disputes, the jurisdiction will be that of Santa Maria Capua Vetere (CE), Italy.

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# ► COMPANY

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## ► Company profile

Irritecnica was founded in 1946 by Antonio Zannone in Nocelleto di Carinola (CE), Italy, and over the years it has become a reliable point of reference in the sector of irrigation products and more generally for the lifting and distribution of water.

With over 50 years of experience in the sector, we are able to follow up the customer in every need, from the design of the system and supply of components, up to on-site installation, after-sales assistance and repairs, thanks to our staff technician and our machinery.

## ► Our services



### Flanged pipes production

We produce flanged pipes for electric pumps and vertical axis pumps



### Control panels design and production

We design and produce control panels for electric pumps up to 150 kW



### Pumps distribution center

We are one of the major retailers of vertical pumps and electric pumps in Campania



### Spare parts warehouse

In our warehouse you can find a vast selection of materials for irrigation



### Technical assistance and repairs

We carry out pre- and post-sales assistance and repairs on site or in our workshop

## ► FLANGED PIPES

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### ► Our offer

In its factory, Irritecnica produces different types of flanged pipes for submersible electric pumps and vertical axis pumps, thanks to the use of automated and cutting-edge machinery for all welding and grinding operations. The produced pipes can be of carbon steel or AISI 304 or 316 stainless steel and have standard diameters, thicknesses and lengths, but customizations are possible upon customer request.



### ► Flanged pipes for submersible electric pumps



- Galvanized carbon steel;
- AISI 304/316 stainless steel on request;
- Various diameters (from 2" to 6");
- Commercial length of 6 m;
- Shorter lengths and custom thicknesses upon customer request.

### ► Flanged pipes for vertical axis pumps

- Varnished or galvanized carbon steel;
- AISI 304/316 stainless steel on request;
- Compatible with the following brands:
- Caprari, Rovatti, Zanni, Mec-2, Landini;
- Other brands compatibility and custom dimensions upon specific customer request.



## ► FLANGED PIPES FOR SUBMERSIBLE ELECTRIC PUMPS

### ► Description

The flanged pipes represent the ideal solution for connection with submersible electric pumps, as compared to classic solutions in plastic materials (uPVC) they withstand very well the torsional force that comes out when turning on the electric pump, the vibrations produced during its operation and the inevitable water hammers.

We produce flanged pipes for submersible electric pumps with diameters ranging from 2" to 6", in galvanized carbon steel or in AISI 304 or 316 stainless steel. The carbon steel pipe can also be requested with longitudinal welding or without welding, obtained with Mannesmann production process.

The length of the pipes is the commercial one of 6 meters, however on request it is possible to have customized lengths.

The flanges are made of forged steel, with screen lines for the gasket and slots for the passage of the power cable, equipped with a stop for housing the tube and reinforcement gussets. They also have a limited size to allow an easy placement in small diameter wells.



### ► Types and characteristics

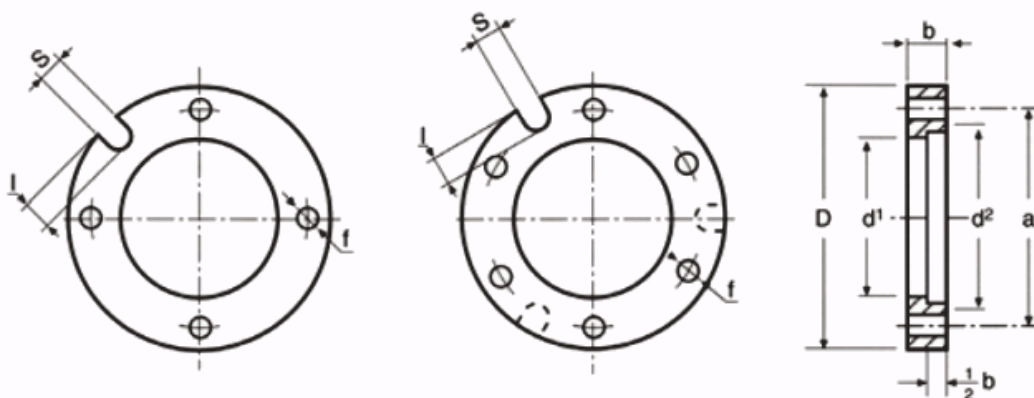
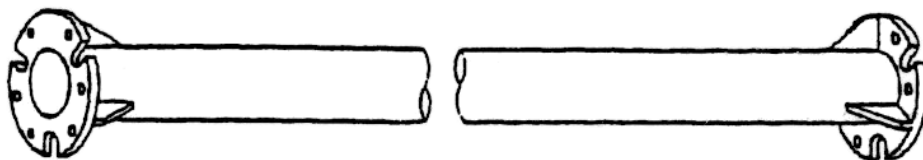
Dimension and weight					
Nominal diameter [inches]	Nominal diameter [mm]	Pipe external diameter [mm]	Pipe thickness [mm]	Pipe length [m]	Weight [kg]
2"	60	60.3	3.2	6 +/- 50mm	29.9
2" 1/2	70	76.1	3.2	6 +/- 50mm	37.8
3"	80	88.9	3.6	6 +/- 50mm	49.8
4"	100	114.3	4.0	6 +/- 50mm	70.6
5"	125	139.7	4.0	6 +/- 50mm	87.2
6"	150	168.3	4.5	6 +/- 50mm	117.5

Materials		
Material	Welding	Varnishing
Carbon steel	Longitudinal welding	Galvanized
"	Without welding (Mannesmann)	Galvanized
AISI 304 stainless steel	-	-
AISI 316 stainless steel	-	-

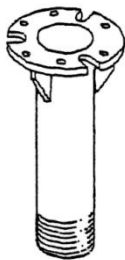
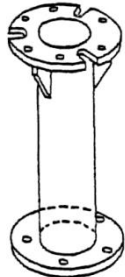
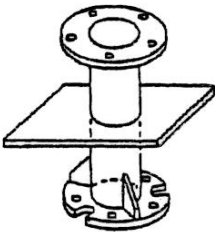
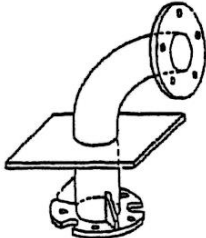
Lengths other than the commercial size of 6 meters can be made upon specific request. Thicknesses and weights shown in the table refer to carbon steel pipes. For stainless steel pipes to be defined at the time of order.

For great depths (>300 meters) we produce pipes with increased thicknesses on request.

Flanges characteristics										
Nominal diameter [inches]	d1 [mm]	d2 [mm]	a [mm]	b [mm]	D [mm]	f [mm]	# holes	S [mm]	l [mm]	Screw thread
2"	55	61	110	16	140	18	4	25	25	M 16
2" 1/2	70	77	125	16	155	18	4	25	25	M 16
3"	80	90	140	18	170	18	6	30	25	M 16
4"	107	115	165	18	195	18	6	30	25	M 16
5"	130	141	190	20	220	18	6	30	25	M 16
6"	160	170	220	20	250	18	6	30	25	M 16



► **Fittings and accessories**

	Code	Description
	RACC-FIL	Threaded pump-pipe connection
	RACC-FLG	Flanged pump-pipe connection
	TAP-DRT	Well cap (straight) and support
	TAP-CRV	Well cap (curved) and support

The flange that couples with the flanged pipe has the same characteristics reported above. The coupling flange with the electric pump (code RACC-FLG) or surface piping (codes TAP-DRT and TAP-CRV) depends on the type of pipe used by the customer and must be customized on request.

Diameters of fittings and well caps range from 2" to 6".

**NOTE:**

The characteristics of the products are shown for indicative purposes and are subject to change at any time without notice.



## ► FLANGED PIPES FOR VERTICAL AXIS PUMPS

### ► Description

The flanged pipes for vertical axis centrifugal pumps are used in connecting the command unit, placed on the surface and driven by tractors, diesel or electric engines, to the pump body, made up of a defined number of stages and placed at a certain depth. The mechanical connection between the two groups occurs via flanged pipes, between which a special support with rubber bearing is positioned, which allows the drive shaft to be housed and which transmits the rotation motion from the command unit to the pump.

We produce flanged pipes and related accessories for vertical axis pumps with diameters ranging from 3" to 5" compatible with the main brands of vertical pumps: Caprari, Rovatti, Zanni, Mec-2, Landini, and others upon specific customer request.

The pipe is typically made of carbon steel with the possibility of varnishing or galvanizing, or it is made of AISI 304 or 316 stainless steel.

The standard size is approximately 3 meters, depending on the specific brand (see type and characteristics tables).

The flanges are made of forged steel, completely machined, and of minimal size, given the small dimensions of the wells, with different characteristics and measurements based on the brand of the vertical pump.



### ► Types and characteristics

#### Caprari compatible pipe – Dimension and weight

Nominal diameter [inches]	Nominal diameter [mm]	Pipe external diameter [mm]	Pipe thickness [mm]	Flange thickness [mm]	Pipe length [m]	# holes flange	Weight [kg]
3"	80	88.9	3.6	16.5	3.050	5	25.3
4"	100	114.3	4.0	16.5	3.050	6	36.8
5"	125	139.7	4.0	16.5	3.050	6	46.5

**Rovatti compatible pipe – Dimension and weight**

Nominal diameter [inches]	Nominal diameter [mm]	Pipe external diameter [mm]	Pipe thickness [mm]	Flange thickness [mm]	Pipe length [m]	# holes flange	Weight [kg]
3"	80	88.9	3.6	16.5	3.030	5	25.1
4"	100	114.3	4.0	16.5	3.030	5	36.6
5"	125	139.7	4.0	16.5	3.030	6	46.2

**Zanni compatible pipe – Dimension and weight**

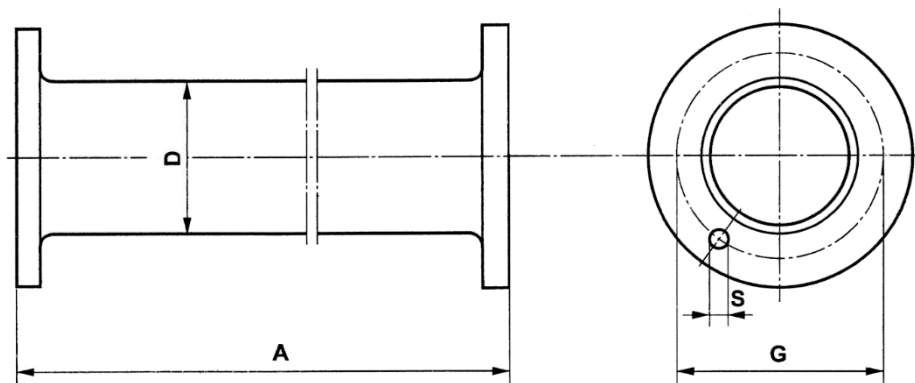
Nominal diameter [inches]	Nominal diameter [mm]	Pipe external diameter [mm]	Pipe thickness [mm]	Flange thickness [mm]	Pipe length [m]	# holes flange	Weight [kg]
3"	80	88.9	3.6	16.5	3.038	6	25.2
4"	100	114.3	4.0	16.5	3.038	6	36.7
5"	125	139.7	4.0	16.5	3.038	6	46.3

**Mec-2 compatible pipe – Dimension and weight**

Nominal diameter [inches]	Nominal diameter [mm]	Pipe external diameter [mm]	Pipe thickness [mm]	Flange thickness [mm]	Pipe length [m]	# holes flange	Weight [kg]
3"	80	88.9	3.6	16.5	2.988	6	24.8
4"	100	114.3	4.0	16.5	2.988	6	36.2
5"	125	139.7	4.0	16.5	2.988	6	45.6

**Landini compatible pipe – Dimension and weight**

Nominal diameter [inches]	Nominal diameter [mm]	Pipe external diameter [mm]	Pipe thickness [mm]	Flange thickness [mm]	Pipe length [m]	# holes flange	Weight [kg]
3"	80	88.9	3.6	16.5	2.980	6	24.8
4"	100	114.3	4.0	16.5	2.980	6	36.1
5"	125	139.7	4.0	16.5	2.980	6	45.5



Materials	
Material	Varnishing
Carbon steel	Varnished
"	Galvanized
AISI 304 stainless steel	-
AISI 316 stainless steel	-

Upon customer request, it is possible to produce compatible tubes for other brands and with customized dimensions. Thicknesses and weights shown in the table refer to carbon steel pipes. For stainless steel pipes to be defined at the time of order.

➤ Accessories to couple with the pipes

	Code	Description
<p>The diagram shows a vertical shaft assembly. Component A is a drive shaft support at the top. Component B is a rubber-metal support bearing. Component C is a threaded coupling sleeve for the drive shaft. Component D is a chrome bushing for the drive shaft. Component E is the drive shaft itself, which is supported by a base structure.</p>	SUP-ALB	Drive shaft support (A)
	CUS-SUP	Rubber-metal support bearing (B)
	MAN-FIL	Threaded coupling sleeve for the drive shaft (C)
	BOC-CRM	Chrome bushing for the drive shaft (D)
	ALB-TRM	Drive shaft (E)

NOTE:

The characteristics of the products are shown for indicative purposes and are subject to change at any time without notice. The products shown in this catalogue are made to a specific Irritecnica project in such a way to guarantee their compatibility with the pumps of the manufacturers without altering their quality and performance.





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