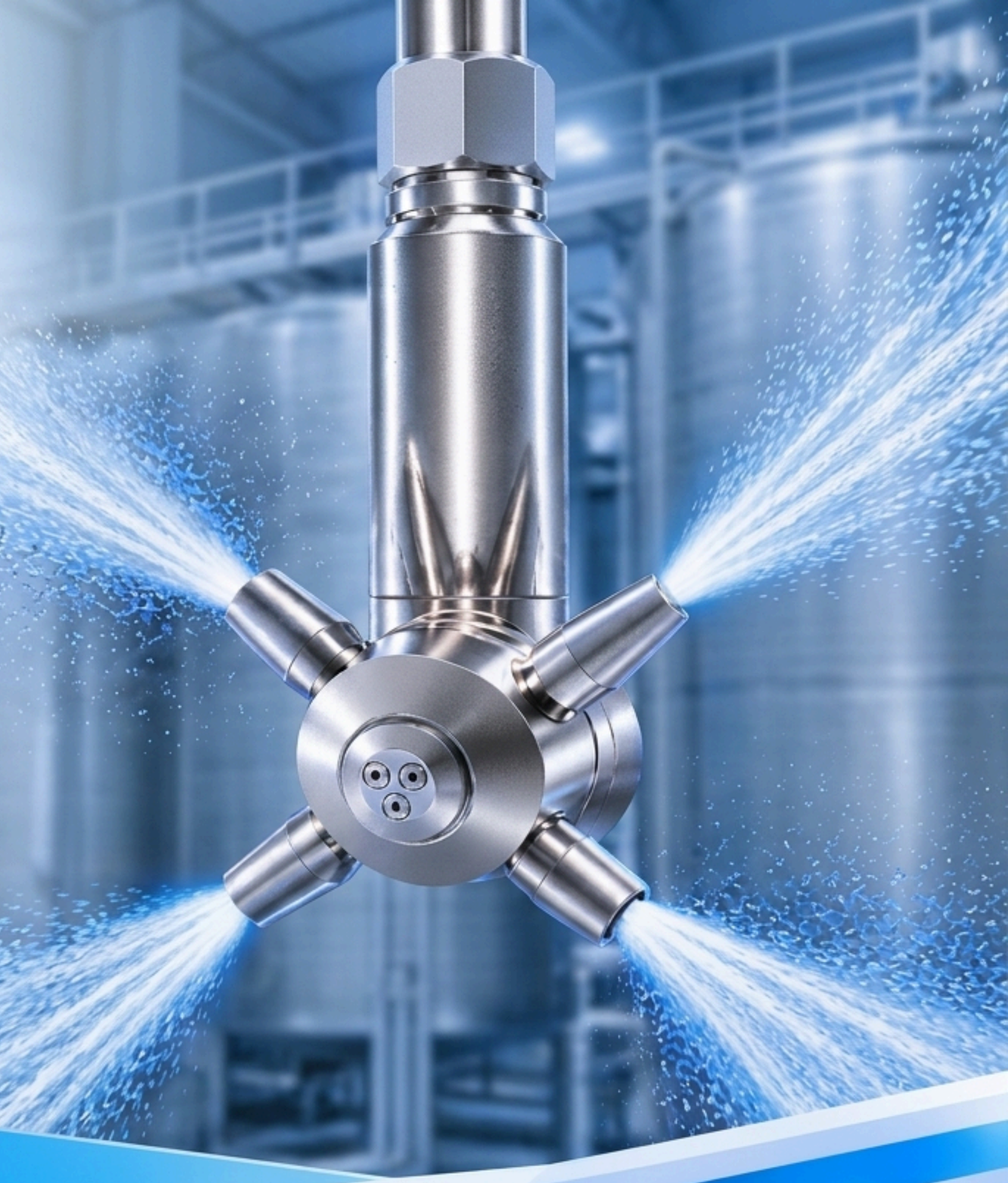
аналог 1К1

КАТАЛОГ МОЮЩИХ ГОЛОВОК

Эффективная очистка
резервуаров и ёмкостей

- Полное покрытие
- Высокая эффективность
- Надёжная конструкция
- Широкий ассортимент



Решения для промышленной
мойки и CIP-процессов



> > CATALOG

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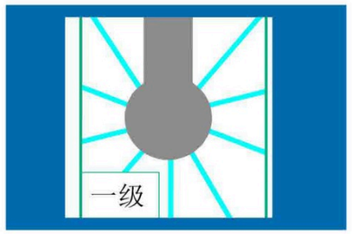
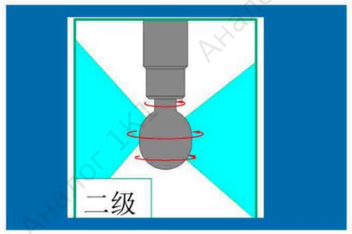
Промышленное оборудование
ООО Аналог 1К1
Заменить не изменяя!
Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
ИНН/КПП: 6700039822/670001001
р/с 40702810601130004833
в АО «АЛЬФА-БАНК»

USAGE LEVEL

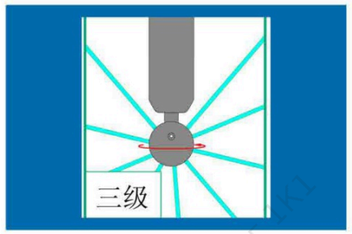
- **class a:** Static spray ball
- **second level:** Rotary spray ball
- **Level 3:**Turbine driven rotary tank cleaning machine
- **Level 4:**Gear driven rotary tank cleaning machine
- **Level 5:**Motor / pneumatic driven tank cleaning machine
- **Six levels:**High pressure cleaning head



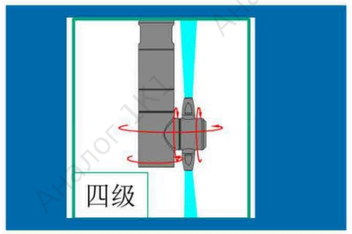
Representative Model：
GD25~75



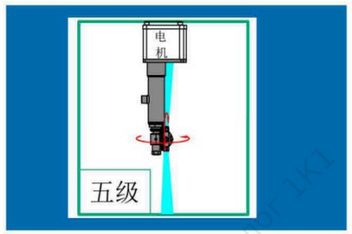
Representative Model：DN10~50
D10~50,FW15,KX15~30,SL20



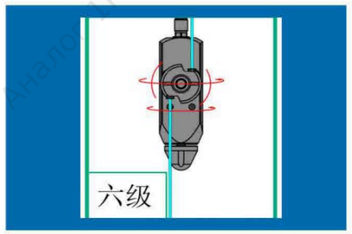
Representative Model：KZ30,KZ75
SG2,SG4,MG2,KC5,MG5,MG8,KZH30,
ST30~300



Representative Model：
DG2,DG5,DG8,DG15,DG20,DG30,
TCM45 ,TG, and XCJ30



Representative Model：
DMD,QMD,XMT1000,MMD,IBCD



Representative Model：
QHP5, CC5,TCC5,TCC2,MP200,
HP500, and HP1000

Промышленное оборудование
ООО Аналог 1К1
Заменить не изменяя!
Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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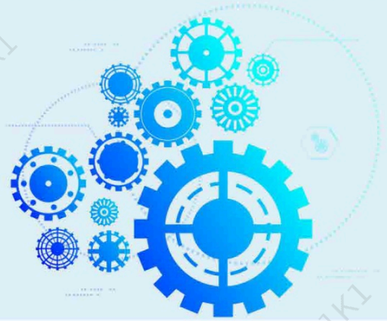
INTRODUCTION TO MODEL SELECTION

Please follow our footsteps, clarify your cleaning tasks, and select more suitable cleaning products from our products

No1. ANALYZE CLEANING TASKS

1. What is the size of the inner wall of the reactor, tank, etc. that need to be cleaned?
2. The location and scope of cleaning?
3. What is the nature of the cleaned dirt?
4. What kind of cleaning agent and cleaning method (rinsing, repeated rinsing) are used?
5. Are there any obstacles (mixing blades, etc.) in the container?

For more information, please see the user guide



No2. DETERMINE THE FIVE ELEMENTS

1. Cleaning flow

In contrast, the higher the level of use of the series products, the lower the liquid flow required

2. Cleaning impact

Keliying's grade 4 and grade 5 products are superior to ordinary rotating cleaning balls and have higher cleaning efficiency

3. Installation location of the cleaner

A reasonable location makes the cleaning effect better.

4. Selection of cleaning fluid

Choosing the right cleaning fluid can greatly shorten the cleaning time

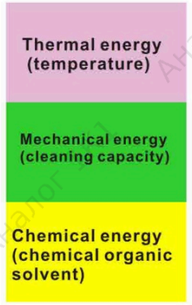
5. cleaning time

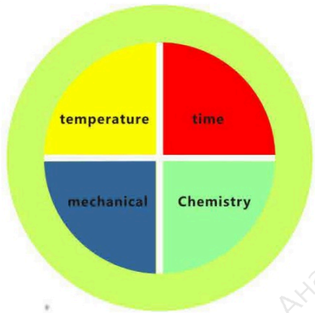
According to different cleaning products, choose the right cleaning time

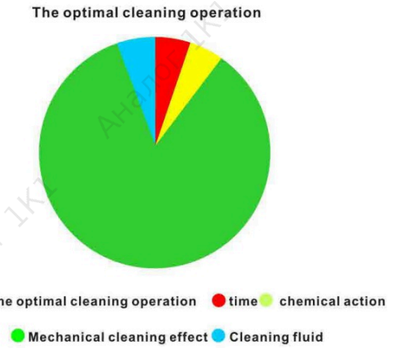
6. Cleaning temperature

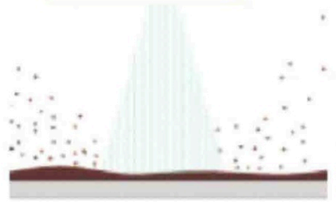
Choose the right temperature for cleaning to give full play to the role of the cleaning fluid.

For more information, please see the user guide



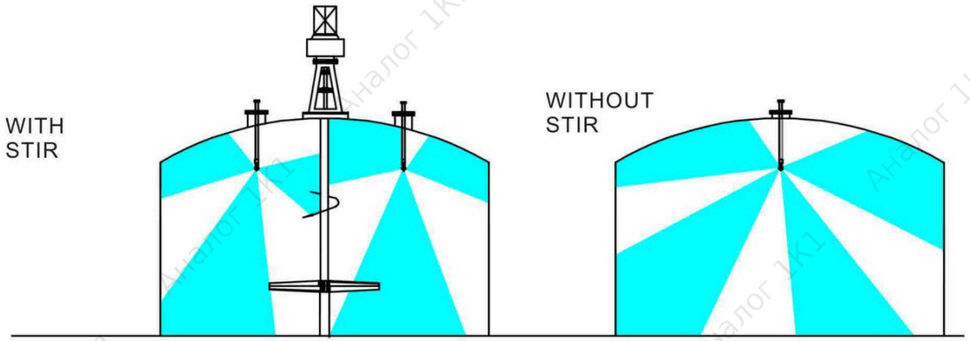






Therefore, it is very important to choose a cleaning head with high impact force and high mechanical energy, which can greatly save cleaning time and reduce energy consumption.

USER'S GUIDANCE

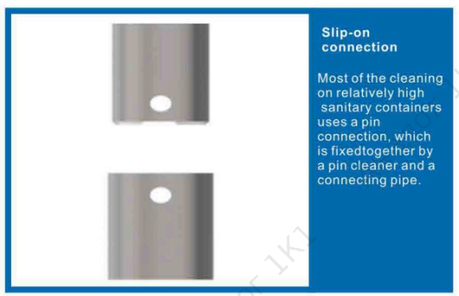


CONNECTION METHOD

Connection method

Most nozzles are connected to the pipe with internal thread



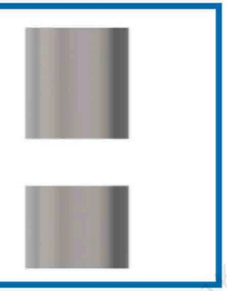


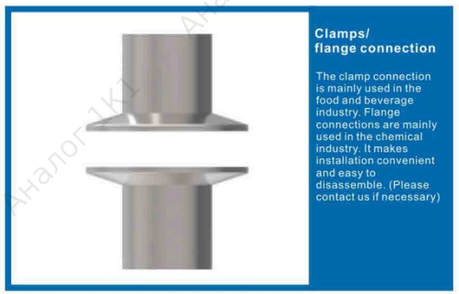
Slip-on connection

Most of the cleaning on relatively high sanitary containers uses a pin connection, which is fixedtogether by a pin cleaner and a connecting pipe.

Welding connection

It is suitable for applications with high hygiene requirements





Clamps/ flange connection

The clamp connection is mainly used in the food and beverage industry. Flange connections are mainly used in the chemical industry. It makes installation convenient and easy to disassemble. (Please contact us if necessary)

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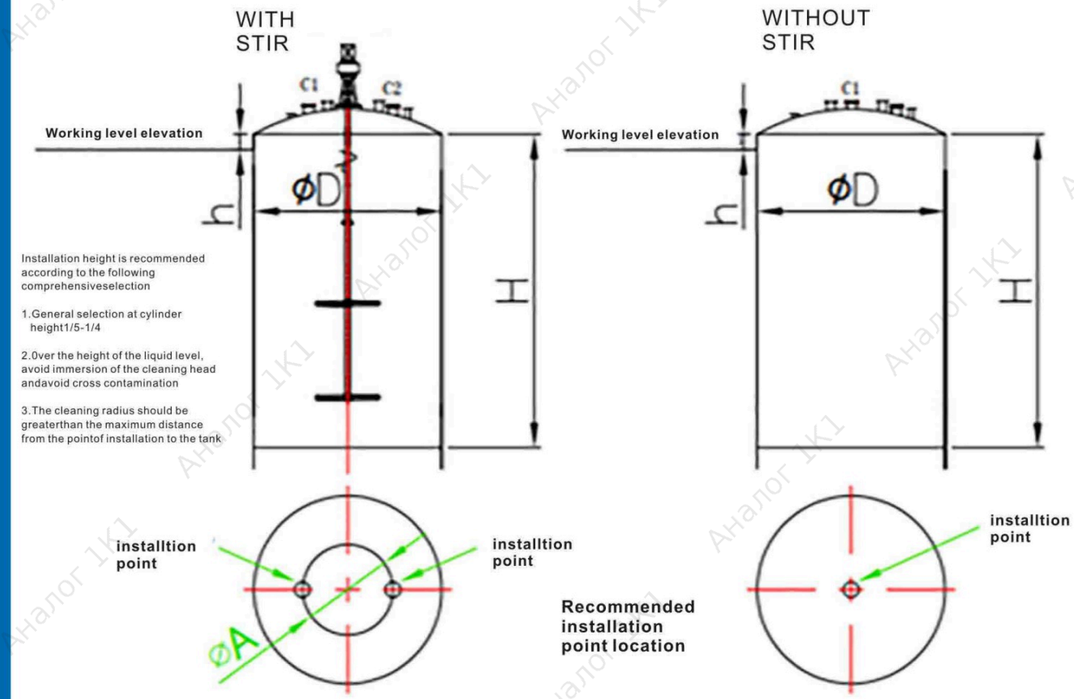
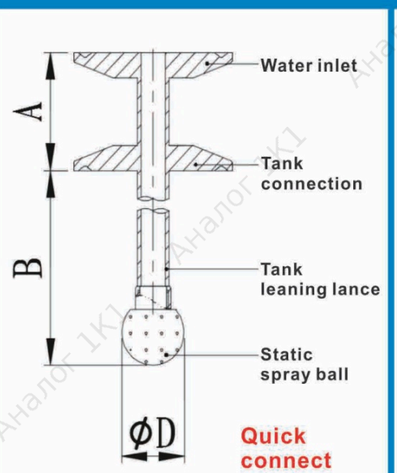
INSTALLATION POINT AND INSTALLATION HEIGHT SELETION

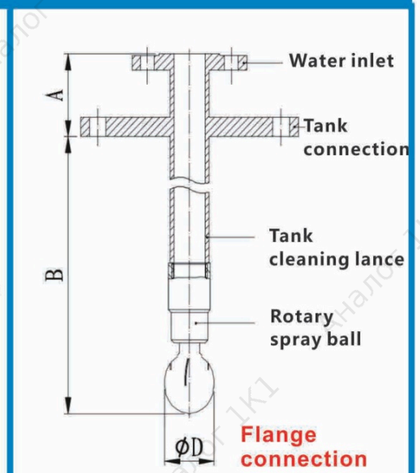


SCHEMATIC DIAGRAM OF SPRAY BAR

Connection and material of tank cleaning lance can be customized according to clients' requirement.









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OVERVIEW OF TANK CLEANING NOZZLES

Grade One

series		Recommended cleaning diameter (m)	Recommended working pressure (bar)	Flow rate (L/min)	Driven form	General application
GD series		0.35-3.9	1.5-3	19-364	Cleaning fluid driven	Mild cleaning

Grade Two

series		Recommended cleaning diameter (m)	Recommended working pressure (bar)	Flow rate (L/min)	Driven form	General application
GD series		0.3-4	2-3	6-165	Cleaning fluid driven,double bearing	Mild cleaning
D19 series		1.2-1.5	2-3.5 bar	17-25	Cleaning fluid driven,double bearing	Mild cleaning
DN series		1-8	2.5-3.5 bar	21-348	Cleaning fluid driven, sliding bearing	Mild cleaning
KX series		0.5-1.5	2-3 bar	8-30	Cleaning fluid driven, sliding bearing	Mild cleaning
FW series		0.5-1.45	2-3 bar	15-42	Cleaning fluid driven, sliding bearing	Mild cleaning
SL series		1-1.8	2-3 bar	16-49	Cleaning fluid driven, sliding bearing	Mild cleaning

OVERVIEW OF TANK CLEANING NOZZLES

Grade Three

series		Recommended cleaning diameter (m)	Recommended working pressure (bar)	Flow rate (L/min)	Driven form	General application
ST series		0.5-2.2	2-3 bar	12-94	Cleaning fluid driven	Medium intensity cleaning
STP series		1.3-2.5	2-3 bar	45-98	Cleaning fluid driven	Medium intensity cleaning
KZ series		1.2-5.5	5-15 bar	18-156	Cleaning fluid driven	Medium intensity cleaning
KZH series		2.5-7.9	5-15 bar	31-245	Cleaning fluid driven	Medium intensity cleaning
KC series		3-6	5-15 bar	39-424	Cleaning fluid driven	Medium intensity cleaning
SG series		0.6-4	5-15 bar	23-95	Cleaning fluid driven	Medium intensity cleaning
MGseries		0.6-8	5-15 bar	10.6-245	Cleaning fluid driven	Medium intensity cleaning

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Иван Рожков
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ИНН/КПП: 6700039822/670001001
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OVERVIEW OF TANK CLEANING NOZZLES

Grade Four

series		Recommended cleaning diameter (m)	Recommended working pressure (bar)	Flow rate (L/min)	Driven form	General application
DG2 series		1-2	2-20	6-38	Cleaning fluid &Gear driven	High impact cleaning
DG5 series		4.9-6.5	5-20	26-135	Cleaning fluid &Gear driven	High impact cleaning
DG8 series		8	5-50	41-231	Cleaning fluid &Gear driven	High impact cleaning
DG15 series		6-15	5-20	51-264	Cleaning fluid &Gear driven	High impact cleaning
DG20 series		8-20	5-20	67-336	Cleaning fluid &Gear driven	High impact cleaning
DG25 series		8-25	5-50	74-369.5	Cleaning fluid driven	High impact cleaning
Dg30series		13-43	5-15	150-1214	Cleaning fluid driven	High impact cleaning
TCM15series		8-28	5-20	87-413	Cleaning fluid &Turbine worm driven	High impact cleaning
TCM45series		13-45	5-20	196-900	Cleaning fluid &Turbine worm driven	High impact cleaning
XCJ30series		12-34	6-12	118-1150	Cleaning fluid driven	High impact cleaning
TGseries		1-4	3-7	20-66	Cleaning fluid &Gear driven	High impact cleaning

OVERVIEW OF TANK CLEANING NOZZLES

Grade Five

series		Recommended cleaning diameter (m)	Recommended working pressure (bar)	Flow rate (L/min)	Driven form	General application
MMD series		1-2	10-200	13.2-59.6	Cleaning fluid driven, motor driven	High impact cleaning
DMD series		2-4.5	10-300	8.5-173	Cleaning fluid driven, motor driven	High impact cleaning
QMD series		1-3	3-200	8.5-173	Cleaning fluid driven, motor driven	High impact cleaning
XMT1000 series		1-1.5	30-70	12-18L	Cleaning fluid driven, motor driven	High impact cleaning
IBCD series		1-2	100-300	6.2-59.6	Cleaning fluid driven, motor driven	High impact cleaning

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OVERVIEW OF TANK CLEANING NOZZLES

Grade Six

系列		推荐清洗直径（m）	推荐工作压力（bar）	流量（L/min）	驱动形式	一般应用
TCC2 series		1-3.5	10-200	4.5-84	Cleaning fluid driven	High impact cleaning
TCC5 series		1-3.5	20-150	10-68	Cleaning fluid driven	High impact cleaning
CC5 series		1-3.5	10-150	9.3-93	Cleaning fluid driven	High impact cleaning
QHP5 series		1-3.5	20-150	12.4-128	Cleaning fluid driven	High impact cleaning
MP200 series		1-4	40-200	12-80	Cleaning fluid driven	High impact cleaning
HP-500		1-6.0	100-500	38-260	Cleaning fluid driven	High impact cleaning
HP-1000		1-5	300-800	20-249	Cleaning fluid driven	High impact cleaning



STATIC SPRAY BALL

GD series static spray ball

Application

GD series static spray ball are suitable for cleaning of storage tanks in food and beverage, pharmaceutical and other industries. GD spray ball is used in the cleaning occasions that are easier to wash and small to medium tank sizes. It is also used in large-flow rinsing and steam cleaning and disinfection occasions.

Working principle

Through the scientifically arranged nozzle holes on the spherical surface of the spray ball, the water jet is sprayed from the nozzle holes to the inner surface of the tank to achieve the purpose of cleaning.

Design feature

Simple structure, low price, basically no maintenance, work with steam and compressed air, self-draining



Technical data

Material	316LSS,304SS,Hastelloy
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	1-4 bar
Recommended pressure	1.5-3 bar
Max. pressure	4 bar
Max. working temperature	95°C
Max. ambient temperature	140°C
Spray angle	360°, 180°on request
Installation	Operation in every direction is possible

Ordering info: GD25- 360° - 316LSS - 1/8" BSPP
Model - spray angle - Material- Connection

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Иван Рожков
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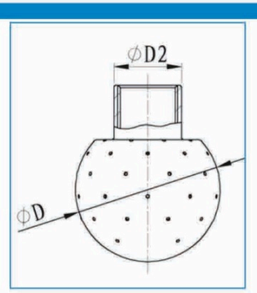
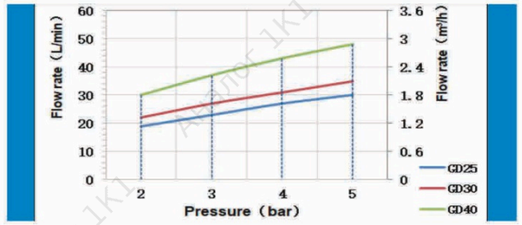


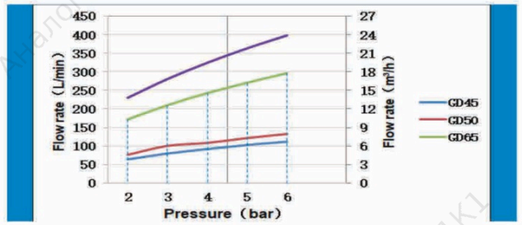


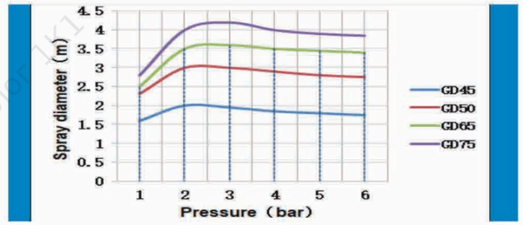
Model	Flow rate (L/min)				Dimensions (mm)			Connection		
	2 Bar	3Bar	4 Bar	5 Bar	D	D2	Min. tank openings	FR-BSPP thread (F)	AR-welding	TF-slip-on
GD25	19	23	27	30	25	12.7	25	1/8"-FR	1/2"-AR	1/2"-TF
GD30	22	27	31	35	30	12.7	30	1/8"-FR	1/2"-AR	1/2"-TF
GD40	27	37	43	48	40	19.05	40	1/4" -FR	3/4"-AR	3/4"-TF
GD45	64	80	92	103	45	19.05	45	1/2"-FR	3/4"-AR	3/4"-TF
GD50	76	100	108	121	50	25.4	50	½", 3/4" -FR	1"-AR	1"-TF
GD65	171	209.5	242	270	65	31.75	65	1"-FR	1-1/4"-AR	1-1/4"-TF
GD75	230	281	325	364	75	38.1	75	1-1/2"-FR	1-1/2"-AR	1-1-2"-TF

Performance curve

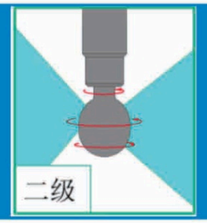








Ordering info: GD25- 360° - 316LSS - 1/8" BSPP
Model - spray angle - Material- Connection



REACTION FORCE ROTARY SPRAY BALL

DN series Teflon rotary spray ball

Application

DN series teflon rotary spray balls are driven by cleaning fluid. They are all made of tetrafluoro PTFE, which has excellent corrosion resistance.
DN series teflon rotary spray ball adopts slide bearings and is highly chemical resistant, which makes it suitable for all industrial cleaning applications, including enameled storage tanks, reactors, vessels, glass fiber reinforced plastics and other vessels with a capacity between 0.5-100m³.

Working principle

Using the force and reaction force of cleaning liquid to generate self-rotation.

Design feature

Driven by cleaning fluid, no external power source is required to rotate the nozzles
Well suited for use in harsh chemical and corrosive environments. Spray angles range from 180°to 360°



Technical data

Material	PTFE/TEFLON Other materials can be customized, such as high temperature resistance, explosion-proof
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	1.5-5 bar
Recommended pressure	2-3.5 bar
Max. pressure	5 bar
Max. working temperature	95°C
Max. ambient temperature	140°C
Spray angle	360°,180°
Installation	Operation in every direction is possible

Ordering info: DN15- 360° - TEF - 1/2" BSPP
Model - spray angle - Material- Connection

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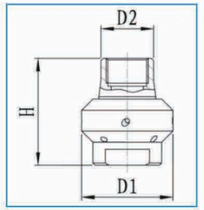
Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков

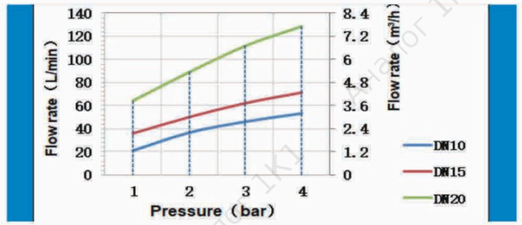
Смоленск, ул. Губенко 26, оф. 306
ИНН/КПП: 6700039822/670001001
р/с 40702810601130004833
в АО «АЛЬФА-БАНК»

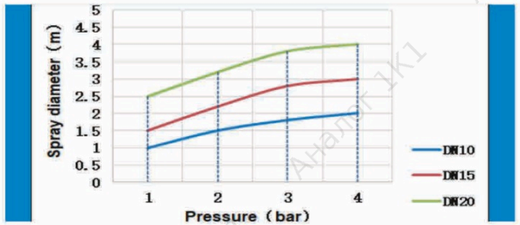


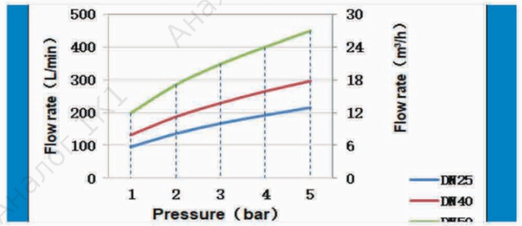


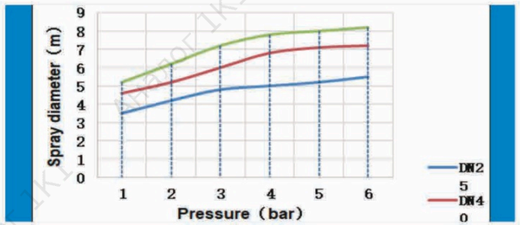
Model	Flow rate (L/min)			Dimensions (mm)				Connection	
	1Bar	2Bar	3 Bar	D1	D2	H	Min. tank openings	FR-BSPP thread (F)	TF-slip-on
DN10	21	36.5	46	38.5	21	47.5	38.5	3/8"-FR	Customizable
DN15	36	50	62	49	28	60	49	1/2"-FR	
DN20	64	89	112	57.5	36	68	57.5	3/4"-FR	
DN25	96	136	167	69	41	76	69	1"-FR	
DN40	133	188	230	85	56	76.5	85	1-1/2"-FR	
DN50	200	285	348	124	67	111	124	2"-FR	

Performance curve

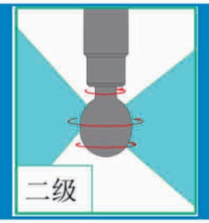








Type	Model	Feature
Standard version	DN	Standard configuration, suitable for working environment below 60 °C
High temp. version	DN-HT	Use high temperature engineering materials for 60 ° C - 250 ° C working environment
Explosion-proof version	DN-F	Use anti-static materials to avoid static sparks, suited for oils and flammable environments



REACTION FORCE ROTARY SPRAY BALL

D series rotary spray ball

Application

D series rotary spray balls are driven by cleaning fluid. D series rotary spray ball consumes less liquid under low pressure, has good cleaning effect and high efficiency, so it is an effective substitute for traditional fixed cleaning balls.
It adopts double ball bearings, which have the characteristics of low friction and long service life. They are mainly used for cleaning and rinsing of small to medium-sized storage tanks, reactors, containers, etc.

Working principle

Using the force and reaction force of cleaning liquid to generate self-rotation, through scientific nozzle design on the ball head, fan-shaped liquid surface is Sprayed to the surface of tank to achieve the purpose of cleaning.

Design feature

Double bearing design, operation in every direction is possibleSelf-cleaning and self-lubricating design
The compact and hygienic design meets requirements for use in CIP system
Low consumption of liquid, operating at low pressure



Technical data

Material	316LSS, 304SS, Hastelloy
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	1-4 bar
Recommended pressure	2-3 bar
Max. pressure	4 bar
Max. working temperature	95°C
Max. ambient temperature	140°C
Spray angle	360°, 180°on request
Connection	BSPP thread, BSPT thread, NPT thread, Slip-on, weld-on, tri-clamp on request
Installation	Operation in every direction is possible

Ordering info: D25- 360° - 316LSS - 1/2" BSPT
Model - spray angle - Material- Connection

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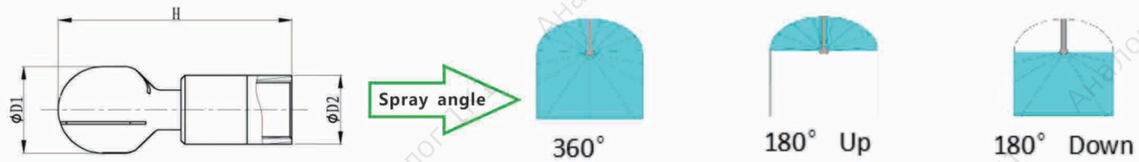
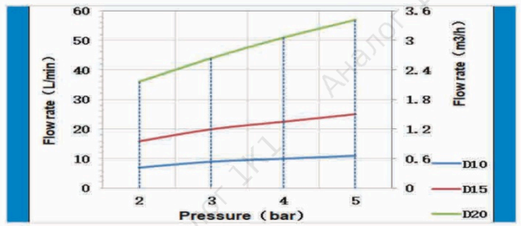
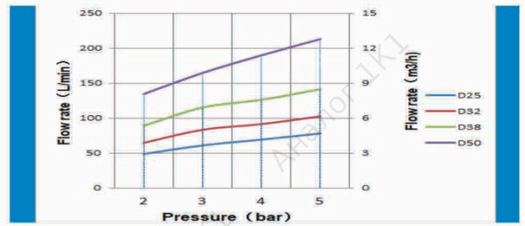


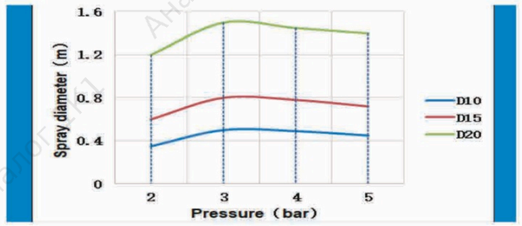
Model	Flow rate (L/min)			Dimensions (mm)				Connection		
	1.5Bar	2Bar	3 Bar	D1	D2	H	Min. tank openings	RC-BSPT thread (F)	AR-weld-on	TF-slip-on
D10	6	7	9	10	9	38	10	M6*0.75	Φ8-AR	/
D15	13.9	16	20	17.5	14.5	53.5	17.5	1/8" RC	1/2"-AR	1/2"-TF
D20	31	36	44	25	21	73	25	3/8" RC	3/4"-AR	3/4"-TF
D25	42	49	61	32	26	94	32	1/2"RC	1"-AR	3/4"-TF
D32	56	64.5	83	40	32	113.5	40	3/4"RC	1-1/4"-AR	1"-TF
D38	77	89	115	45	39	131.06	45	3/4"RC/ 1"RC	1-1/2"-AR	1-1/4"-TF
D50	117	135	165	64.5	59	154	64.5	1-1/2"RC	2"-AR	1-1/2"-TF

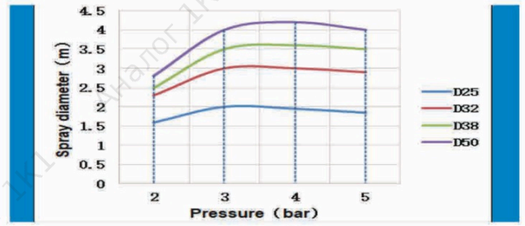
Performance curve

Other connection methods are required, such as NPT thread, tri-clamp, etc. Please consult for

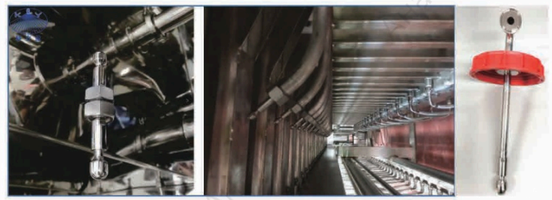


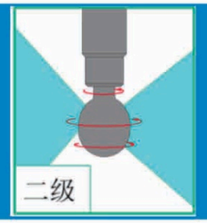






Typical application





REACTION FORCE ROTARY SPRAY BALL

D19 5 gallon washer nozze

Application

KLY D19 rotary spray ball is specially designed for cleaning of inner cleaning of 5 gallon bottle, with strong impact and low consumption of liquid. It can thoroughly and effectively clean the bottom, neck and shoulder of the bottle. Thoroughly solve the 5 gallon bottle cleaning problem in the industry, suitable for lifting inner bottle cleaning structure.

Working principle

Using the force and reaction force of cleaning liquid to generate self-rotation.

Design feature

Double bearing design, operation in every direction is possible; self-cleaning and self-lubricating design, in line with sanitary requirements; unique opening design can achieve 360 ° coverage cleaning, especially the spray lance and the top of tank can also be thoroughly cleaned.



Technical data

Material	316SS,304SS
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	1-4 bar
Recommended pressure	2.5-3.5 bar
Max. pressure	4 bar
Max. spray diameter	1.5m
Connection	3/8" BSPP or M16*1
Max. working temperature	95°C
Max. ambient temperature	140°C
Spray angle	360°
Installation	Operation in every direction is possible

Ordering info: D19- 360° - 316SS - 3/8" BSPP
Model - spray angle - Material- Connection

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ИНН/КПП: 6700039822/670001001
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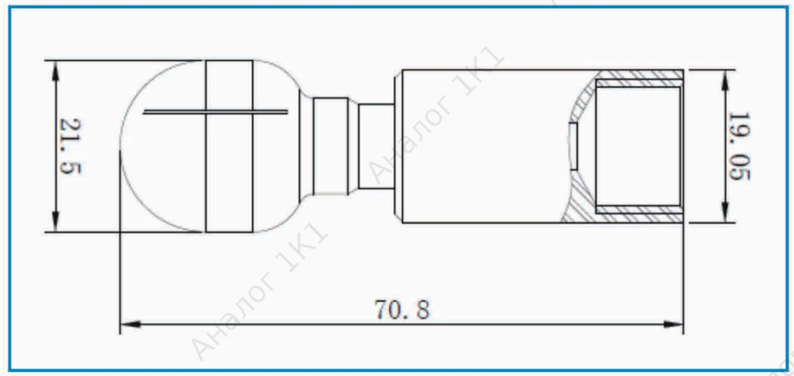
REACTION FORCE ROTARY SPRAY BALL

D19 series CIP special five gallon bucket cleaning rotary nozzle

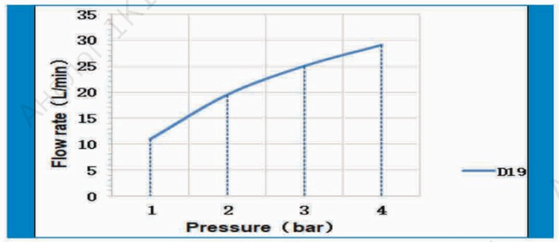
Typical application

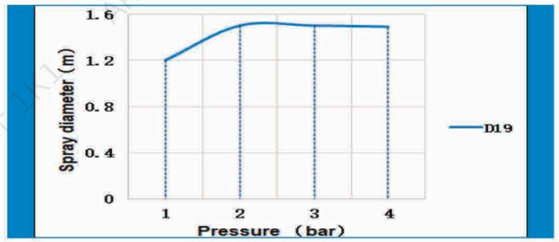




Model	Flow rate (L/min)			Dimensions (mm)	Connection
	1.5 Bar	2 Bar	3 Bar	Min. tank openings	FR-BSPP thread (F)
D19	17	19.5	25	22	3/8"-FR / M16*1

Performance curve







REACTION FORCE ROTARY SPRAY BALL

KX series rotary spray nozzle

Application

KX series rotary spray nozzle use cleaning fluid for full cleaning and spraying. It adopts PEEK sliding bearings, which have the characteristics of low friction and long service life. They are mainly used for cleaning and rinsing of small to medium-sized storage tanks, reactors, containers, etc.



Working principle

Using the force and reaction force of cleaning liquid to generate self-rotation, through scientific nozzle design on the ball head, fan-shaped liquid surface is sprayed to the surface of tank to achieve the purpose of cleaning.

Design feature

Slide bearing is adopted, which can be installed in any direction; self-cleaning and self-lubricating design meets sanitary requirements; the metal powder is avoided from direct friction with the metal during the rotation; Compact design and cost-effective; long service life and durable

Technical data

Material	316SS, PEEK
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	1-4 bar
Recommended pressure	2-3 bar
Max. pressure	4 bar
Max. working temperature	180°C
Max. ambient temperature	200°C
Spray angle	360°, 180°on request
Installation	Operation in every direction is possible

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Смоленск, ул. Губенко 26, оф. 306
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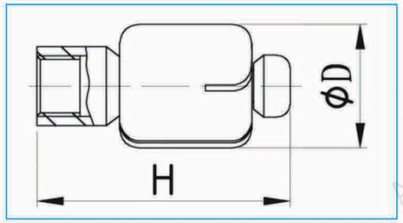
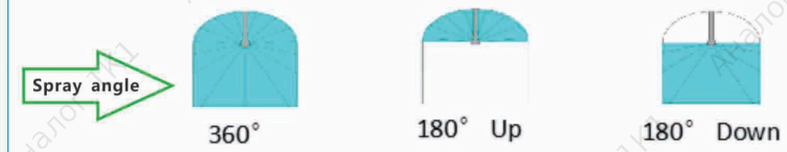


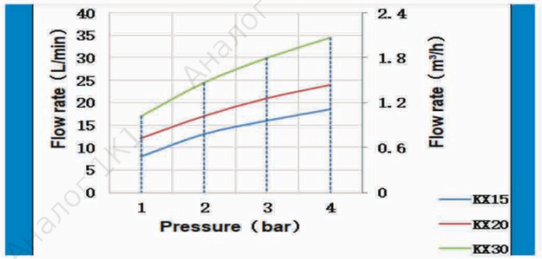


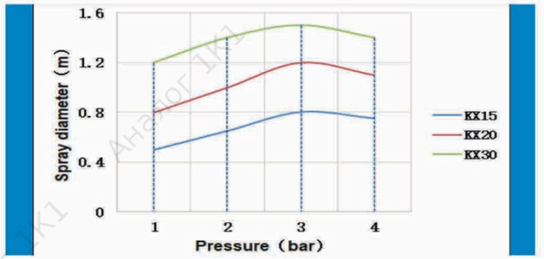
If you need other angles, please consult for details

Model	Flow rate (L/min)			Dimensions (mm)			Connection		
	1Bar	2Bar	3 Bar	D	H	Min. tank openings	FR-BSPP thread (F)	AR-weld-on	TF-slip-on
KX15	8	13	16	17	39	17	G1/8-FR	1/2"-AR	Customizable
KX20	12	17	21	22	51	22	G1/4-FR	3/4"-AR	
KX30	17	24.5	30	27	59	27	G3/8-FR	3/4"-AR	

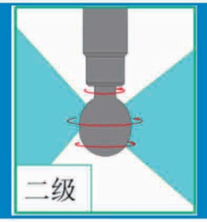
Other connection modes are required, such as TF pin and chuck quick connect. Please consult for details

Performance curve





Ordering info: KX20- 360° - 316SS - 3/8" BSPP
Model - spray angle - Material- Connection



REACTION FORCE ROTARY SPRAY BALL

FW-COP/SIP rotary spray nozzles

Application

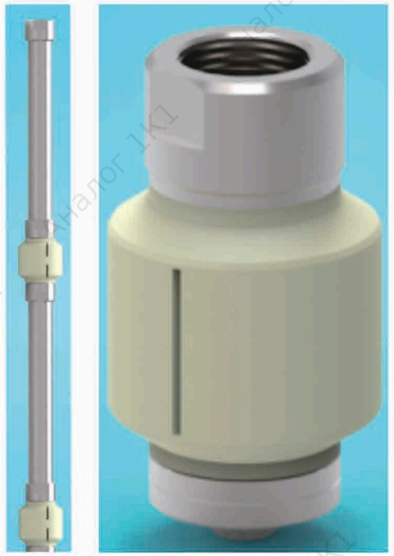
FW series rotary spray nozzles are specially designed for COP/SIP, with low liquid consumption, good atomization effect and good coverage. FW rotary spray nozzles are generally used for cleaning and disinfection of space areas where the cleaning medium is disinfectant or foam, such as filling machines, especially for aseptic cold filling processes.

Working principle

Using the force and reaction force of cleaning liquid to generate self-rotation, through scientific nozzle design on the ball head, fan-shaped liquid surface is sprayed to the surface of tank to achieve the purpose of cleaning.

Design feature

Because rotating ball head and sliding bearing are made of PEEK material, the friction coefficient is low, and the service life is long; self-cleaning and self-lubricating design meets the sanitary requirements; rotating speed is fast, and atomized particles are fine and uniform, especially suitable for cleaning and disinfection occasions .



Technical data

Material	316LSS, PEEK
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	1-4 bar
Recommended pressure	2-3 bar
Max. pressure	4 bar
Max. working temperature	180°C
Max. ambient temperature	200°C
Spray angle	360°, 180°on request
Installation	Operation in every direction is possible

Ordering info: FW15- 360° - 316LSS - 3/8" BSPP
Model - spray angle - Material- Connection

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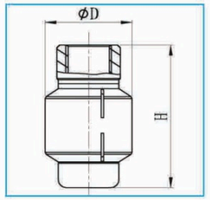
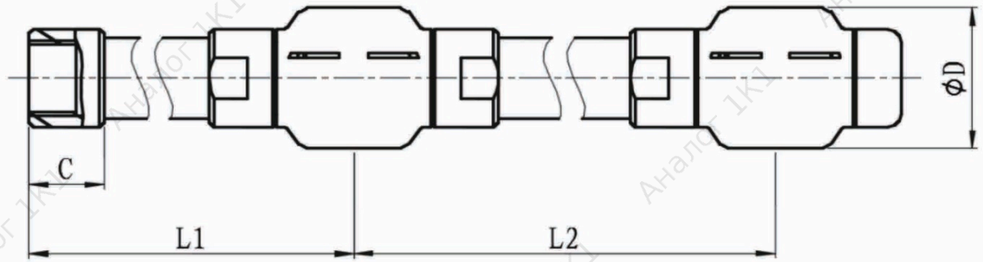


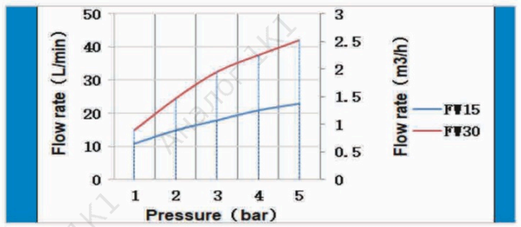


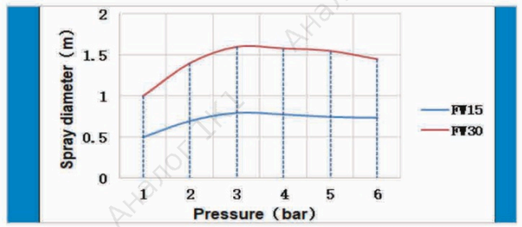


Model	Flow rate (L/min)				Dimensions (mm)				Connection		
	2Bar	3Bar	4 Bar	5 Bar	D	H	C	Min. tank openings	FR-BSPP thread(F)	AR-weld-on	TF-slip-on
FW15	15	18	21	23	31.5	55.5	16	31.5	3/8"-FR	3/4"-AR	3/4"-TF
FW30	24.5	32.5	37.5	42	31.5	55.5	16	31.5	3/8"-FR	3/4"-AR	3/4"-TF

Performance curve

The length of L1/L2 is customized according to the actual situation, and more than one can be connected in series.

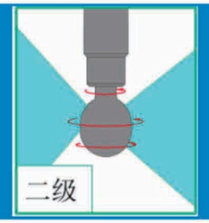




Typical application



Ordering info: FW15- 360° - 316LSS - 3/8" BSPP
Model - spray angle - Material- Connection



REACTION FORCE ROTARY SPRAY BALL

SL series PVDF rotary spray nozzle

Application

SL series rotary spray nozzles are driven by cleaning fluid. These rotary spray nozzles are all made of PVDF and have good corrosion resistance.
This series is mainly used in small and medium storage tanks, reactors and other vessels with a capacity between 1-3m³.



Working principle

Using the force and reaction force of cleaning liquid to generate self-rotation, through scientific nozzle design on the ball head, fan-shaped liquid surface is sprayed to the surface of tank to achieve the purpose of cleaning.

Design feature

- Inexpensive rotating nozzle
- Good corrosion resistance
- 360° and partial coverage
- Slide bearing
- Very compact design, self rotating
- Driven and lubricated by the cleaning fluid

Technical data

Material	PVDF
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	1-4 bar
Recommended pressure	2-3 bar
Max. pressure	20 bar
Max. working temperature	95°C
Max. ambient temperature	140°C
Spray angle	360°,180°on request
Installation	Operation in every direction is possible

Ordering info: SL20- 360° - PVDF - 1/2" BSPP
Model - spray angle - Material- Connection

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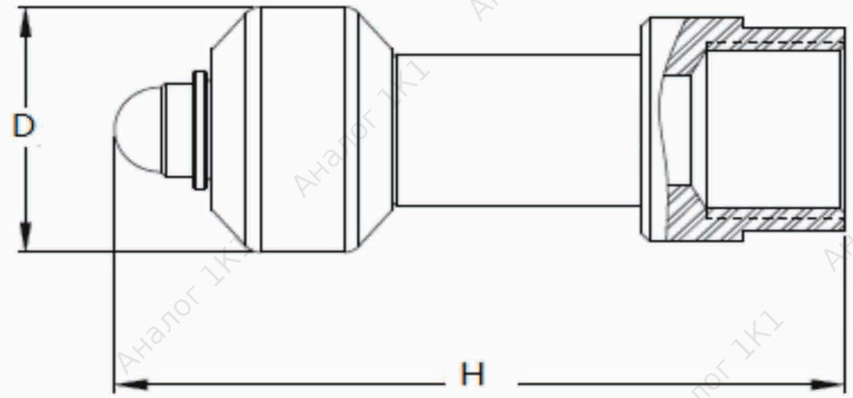
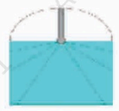


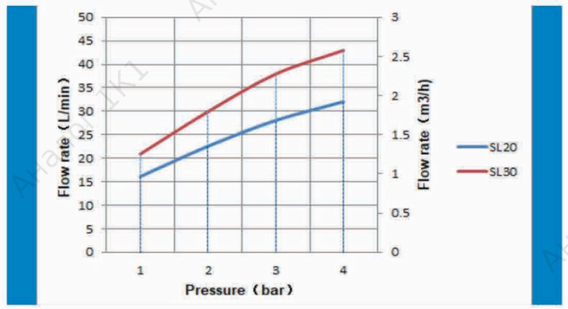

360°

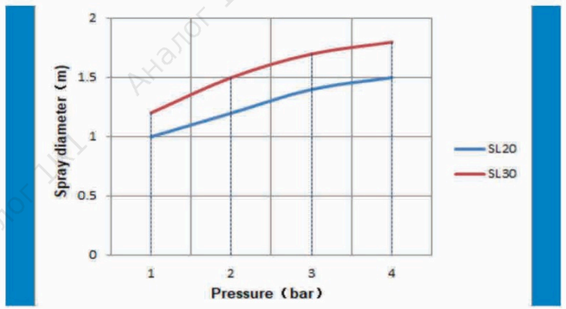

180° Up


180° Down

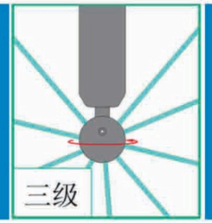
Model	Flow rate (L/min)				Dimensions (mm)			Connection		
	1Bar	2 Bar	3 Bar	5 Bar	D	H	Min. tank openings	FR-BSPP thread(F)	AR-weld-on	TF-slip-on
Sl20	16	22.5	28	36	29	79.1	30	G1/2-FR	/	/
Sl30	21	30	38	49	39	106	40	G3/4-FR	/	/

Performance curve





Ordering info: SL20- 360° - PVDF - 1/2" BSPP
Model - spray angle - Material- Connection



RETRACTABLE ROTARY CLEANER

ST series retractable rotary cleaner

Application

KLY ST series retractable rotary cleaner is suitable for pharmaceutical, food and beverage, chemical and other industries. It is especially suitable for the occasions where the nozzles cannot be placed in the cleaning object,as well as the cleaning of corners and pipes.
Typical applications: CIP cleaning of pipelines for drying and powder conveying equipment, spray drying chambers, cyclones, fluidized beds, granulators, mixing tanks, marine, oil tanks and other equipment.



Working principle

When a certain fluid pressure is reached, the retractable rotating cleaning nozzle is automatically extended from the enclosure. After cleaning, disconnect fluid pressure, the rotating cleaning nozzle is automatically retracted into enclosure. These free-spinning rotating nozzles can be installed flush in the tank wall.
The retractable rotary cleaner eliminates the repetitive tasks of installing and removing spray devices in the CIP system, minimizing downtime and increasing available production time.



Design feature

There is a sealed design inside, prevent foreign matter from entering the washer when stop working.Self-draining, no cleaning fluid residue.

Technical data

Material	316LSS, PEEK
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	1-4 bar
Recommended pressure	2-3 bar
Max. pressure	4 bar
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Spray angle	320°
Installation	Operation in every direction is possible
Spray diameter	1-2.2m
Stroke length	30,50,100,150mm
Specification of Ferrule at installation	1.5"-TC (1.5" tri-clamp)
Water inlet	1.5"-TC (1.5" tri-clamp)
Impact	Special nozzle design, great impact and wide coverage
When there is an insulation interlayer model:	Can be customized, contact with us for more information

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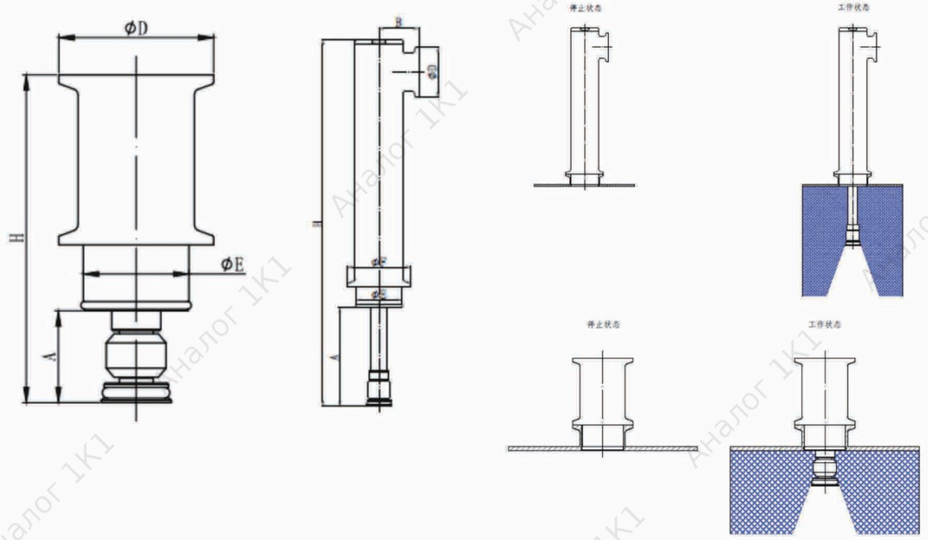
Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков

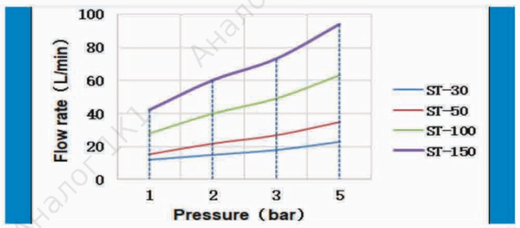
Смоленск, ул. Губенко 26, оф. 306
ИНН/КПП: 6700039822/670001001
р/с 40702810601130004833
в АО «АЛЬФА-БАНК»

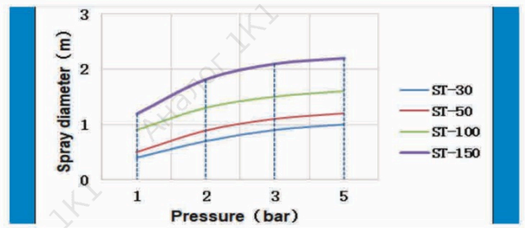


Model	H	A	D	E	B	F
ST-30	77	30	50.5	34.5	/	/
ST-50	197	50	50.5	34.5	/	/
ST-100	371	100	50.5	47	40	64
ST-150	507	150	50.5	47	40	64

Performance curve

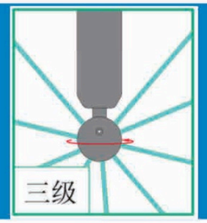
Ordering info: ST-50- 316LSS - 1.5" -TC
Model - Material- Water inlet





Typical application





RETRACTABLE ROTARY CLEANER

STP-150 retractable rotary cleaner

Application

KLY STP-150 series retractable rotary cleaner is suitable for pharmaceutical, food and beverage, chemical and other industries. It is especially suitable for the occasions where the nozzles cannot be placed in the cleaning object,as well as the cleaning of corners and pipes. Typical applications: CIP cleaning of pipes of drying and powder conveying equipment, cyclones,fluidized bed, granulator and other equipments.



Working principle

When a certain air pressure is reached, the retractable rotating cleaning nozzle is automatically extended from the enclosure. When a certain liquid pressure is reached, nozzle will start to rotate for cleaning. After cleaning, disconnect liquid pressure and turn off air pressure, the rotating cleaning nozzle is automatically retracted into enclosure. These free-spinning rotating nozzles can be installed flush in the tank wall.

Design feature

There is a sealed design inside, prevent foreign matter from entering the washer when stop working.Self-draining, no cleaning fluid residue.

Technical data

Material	316LSS, PEEK
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	1-4 bar
Recommended pressure	2-3 bar
Max. pressure	4 bar
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Spray angle	320°
Installation	Operation in every direction is possible
Spray diameter	2.5m
Stroke length	150mm (length can be customized, such as 250.350.500mm)
Specification of Ferrule at installation	2"-TC (2" tri-clamp)
Water inlet	1.5"-TC (1.5" tri-clamp)
Impact	Special nozzle design, great impact and wide coverage
When there is an insulation interlayer model:	Can be customized, contact with us for more information

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Промышленное оборудование
ООО Аналог 1К1
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Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
ИНН/КПП: 6700039822/670001001
р/с 40702810601130004833
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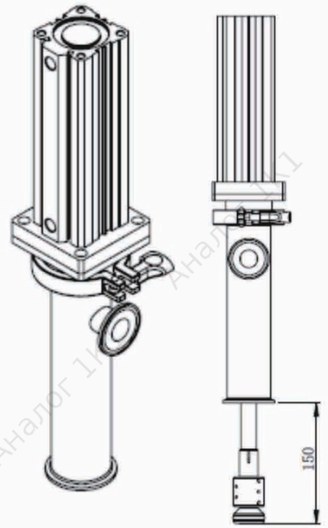
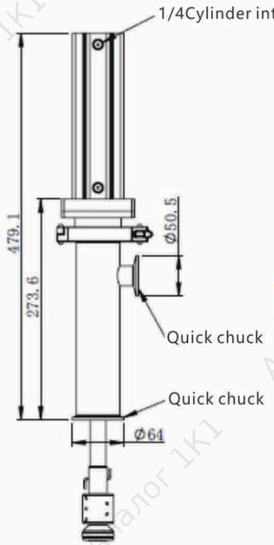
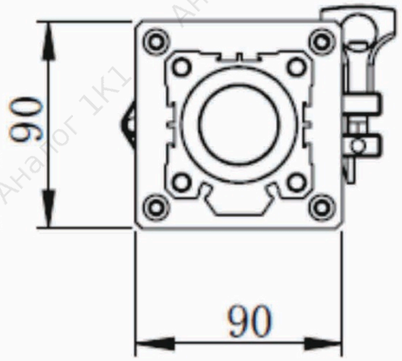
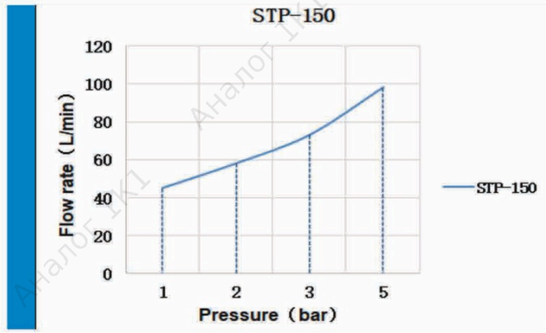
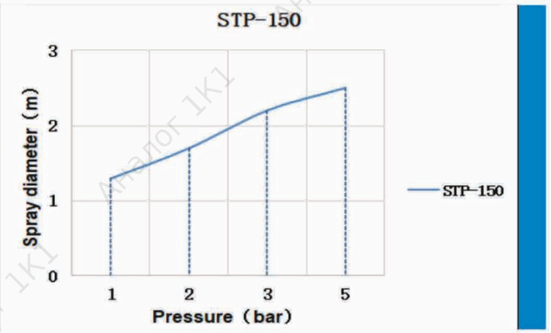




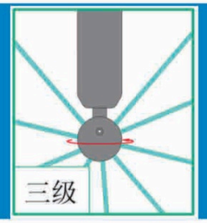


Performance curve





Ordering info: ST-50- Model - 316LSS Material- - 1.5"-TC Water inlet



IMPELLER DRIVEN ROTARY CLEANER

KZ series rotary tank washer

Application

KLY KZ series rotary tank washer is suitable for small to medium sized tanks, such as dairy, food, pharmaceutical, beer, chemical, industrial fermentation industries and occasions that require high impact cleaning. Especially suitable for occasions with certain viscosity, such as syrup, powder, etc.

Working principle

Impeller is driven by cleaning fluid and drives internal reduction mechanism. The speed is constant to obtain greater impact when increasing pressure.

Design feature

*Cleaning fluid is sprayed out as a flat jet at the nozzle, and the impact force is greater, with precise layout of ball of self -rotating tank cleaning head, to achieve 360° full coverage cleaning.
*Built-in deceleration structure, impeller drive, stable operation, constant speed, it takes 1-3 seconds for the ball head to rotate one circle
*Operating pressure of 3-15bar



Technical data

Material	316LSS , PTFE,PEEK
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	2-20 bar
Recommended pressure	5-15 bar
Max. pressure	20 bar
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Spray angle	360°
Installation	Operation in every direction is possible

Ordering info: : KZ30 - 360° - 316LSS - 1/2" BSPP
Model - spray angle - Material- Connection

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Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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р/с 40702810601130004833
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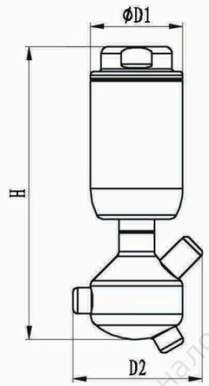
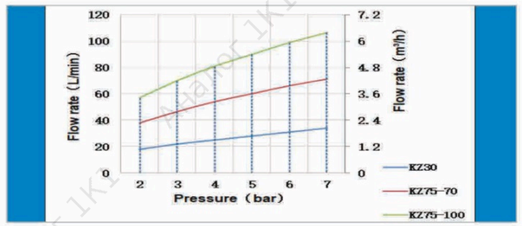
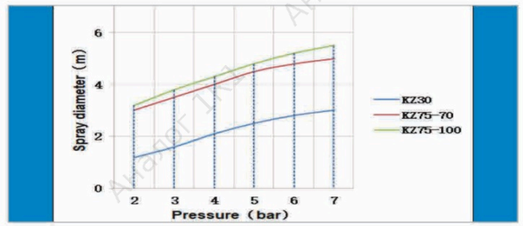


Model	Flow rate (L/min)				Dimensions (mm)				Connection		
	2Bar	3Bar	5Bar	15Bar	D1	H	D2	Min. tank openings	Min. tank openings	FR-BSPP thread (F)	TF-slip-on
KZ30	18	22	28	49	39	125	56	56	1/2"-FR	/	/
KZ75-70	38	46.5	60	104	59	158	79	79	3/4"or 1" -FR	/	/
KZ75-100	57	70	90	156	59	158	79	79	1"-FR	/	/

Performance curve

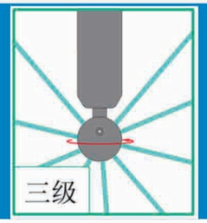




Typical application







IMPELLER DRIVEN ROTARY CLEANER

KZH series rotary tank washer

Application

KZH series rotary tank washer is suitable for small to medium sized tanks, such as dairy, food, pharmaceutical, beer, chemical, industrial fermentation industries and occasions requiring high-impact cleaning.

Working principle

Impeller is driven by pressure generated by the cleaning liquid and drives gearbox deceleration mechanism to rotate.
Through the scientific nozzle design on the rotating ball head, the fan-shaped liquid surface is sprayed onto the surface of the tank to achieve the purpose of cleaning.

Design feature

Self-cleaning and self-lubricating design, meeting sanitary requirements
The speed is constant to obtain greater impact when increasing pressure
Fan-shaped jet, wide coverage, high impact, low consumption of liquid
Built-in independent gearbox, stable speed and stable performance



Technical data

Material	316LSS
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	2-20 bar
Recommended pressure	5-15 bar
Max. pressure	20 bar
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Spray angle	360°
Installation	Operation in every direction is possible

Ordering info: : KZH30 - 360° - 316LSS - 1/2" BSPP
Model - spray angle - Material- Connection

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Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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р/с 40702810601130004833
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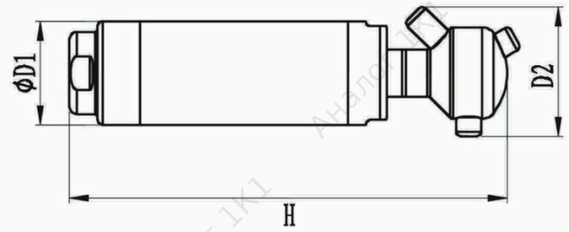
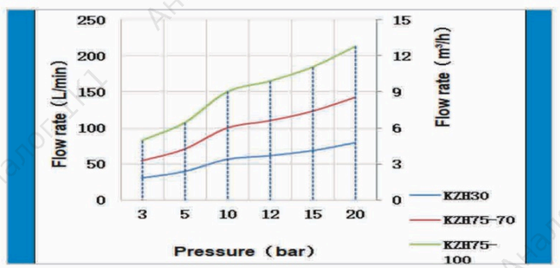
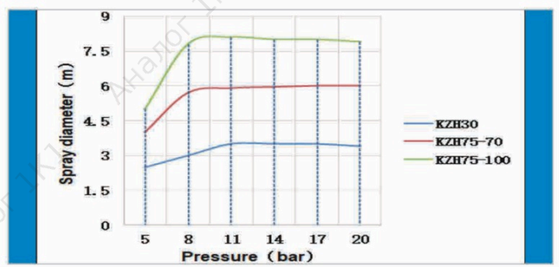


Other connection modes are required, such as bolt, welding and chuck quick connection. Please consult for details

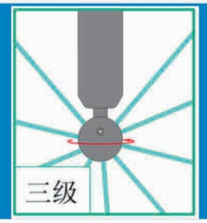
Model	Flow rate (L/min)				Dimensions (mm)				Connection	
	3Bar	5Bar	7Bar	10Bar	D1	H	D2	Min. tank openings	FR-BSPP thread (F)	TF-slip-on
KZH30	31	40	47	57	44	190	56	56	1/2"-FR	/
KZH75-70	55	71	84	100	66	250	79	79	1"-FR	/
KZH75-100	82.5	107	127	150	66	250	79	79	1"-FR	/

Performance curve





Ordering info: : KZH30 - 360° - 316LSS - 1/2" BSPP
Model - spray angle - Material- Connection



IMPELLER DRIVEN ROTARY CLEANER

SG series rotary tank washer

Application

SG series rotary tank washer is suitable for small to medium sized tanks, such as dairy, food, pharmaceutical, beer, chemical, industrial fermentation industries and occasions that require high impact cleaning. Especially suitable for occasions with certain viscosity, such as syrup, powder, etc.

Working principle

Impeller is driven by cleaning fluid and drives internal reduction mechanism.
The speed is constant to obtain greater impact when increasing pressure.

Design feature

*Cleaning fluid is sprayed out as a water column at the nozzle, and the impact force is greater, with precise layout of ball of self -rotating tank cleaning head, to achieve 360° full coverage cleaning.
*Built-in deceleration structure, impeller drive, stable operation, constant speed, it takes 1-3 seconds for the ball head to rotate one circle
*Operating pressure of 3-15bar



Technical data

Material	316LSS
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	2-20 bar
Recommended pressure	5-15 bar
Max. pressure	20 bar
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Spray angle	360°
Installation	Operation in every direction is possible

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Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков

Смоленск, ул. Губенко 26, оф. 306
ИНН/КПП: 6700039822/670001001
р/с 40702810601130004833
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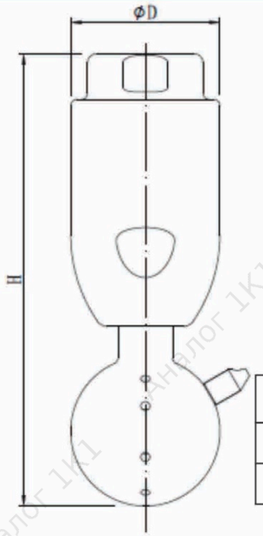
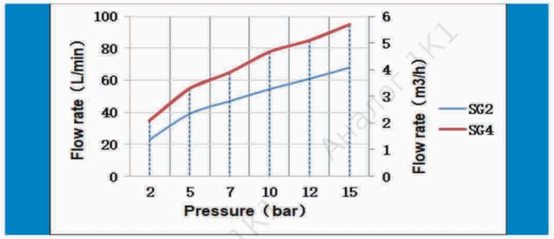


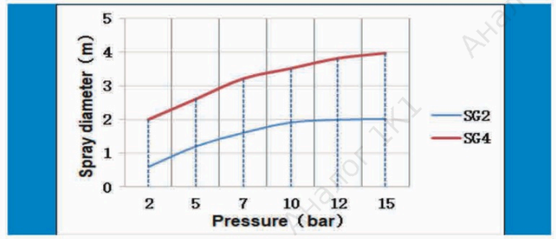
Other angles are required.
Consult for details

Model	Flow rate (L/min)				Dimensions (mm)			Connection	Weight
	2Bar	7Bar	10 Bar	15 Bar	D	H	Min. tank openings	FR-BSPP thread (F)	KG
SG2	23	47	54.5	68	39	128	45	1/2"-FR	0.5
SG4	35	65	78	95	49	148	62	3/4"-FR	1

Performance curve

Other connection modes are required, such as bolt, welding and chuck quick connection. Please consult for details





Type	Model	Feature
Standard version	SG2/SG4	Standard configuration, suitable for working environment below 60 °C
High temp. version	SG2/SG4-HT	Use high temperature engineering materials for 60 ° C - 200 ° C working environment
Explosion-proof version	SG2/SG4-F	Use anti-static materials to avoid static sparks, suited for oils and flammable environments
Oil resistant version	SG2/SG4-OT	Special engineering materials, strong oil resistance, can be used for oil tank cleaning

Ordering info: : SG4 - 360° - 316LSS - 3/4" BSPP
Model - spray angle - Material- Connection

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Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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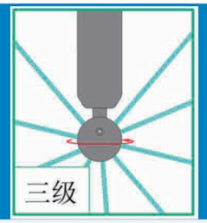

IMPELLER DRIVEN ROTARY CLEANER

KC series rotary tank washer

Application

KLY KC series rotary tank washer is suitable for small to medium sized tanks, such as dairy, food, pharmaceutical, beer, chemical, industrial fermentation industries and occasions requiring high-impact cleaning.

Working principle

The pressure generated by the cleaning liquid is used to drive internal gear reduction mechanism to drive the washer to rotate.
Reasonable layout of multiple flat fan nozzles, coupled with the rotation of the washer, can achieve360° full coverage cleaning.

Design feature

High impact flat jet water flow, 360° coverage, thorough cleaning.
Built-in gear reduction mechanism makes the cleaner work more stable.
The speed is constant to obtain greater impact when increasing pressure
Independent gear box, anti-clogging design, strong and durable



Technical data

Material	316LSS
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	2-20 bar
Recommended pressure	5-15 bar
Max. pressure	20 bar
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Spray angle	360°
Installation	Operation in every direction is possible

Ordering info: : KC5-100 - 360° - 316LSS - 3/4" BSPP
Model - spray angle - Material- Connection

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Заменить не изменяя!
Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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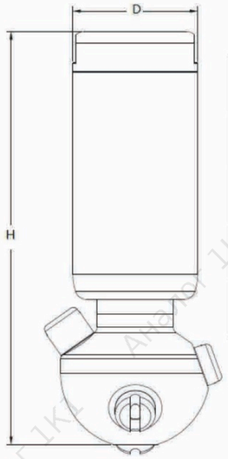
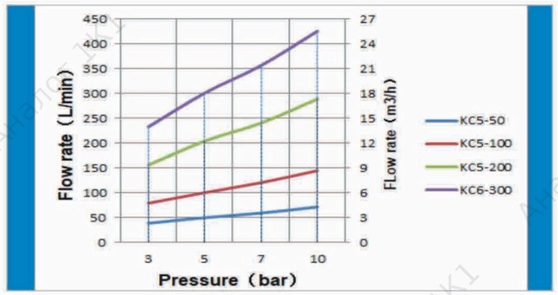
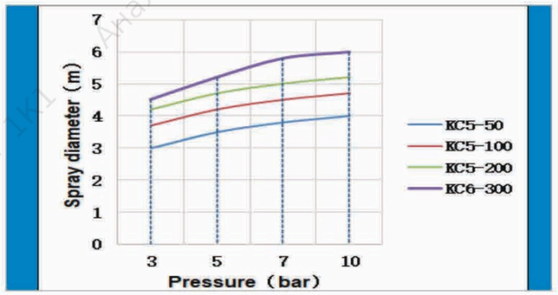


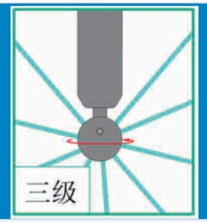
Type	Model	Feature
Standard version	KC5/KC6	Standard configuration, suitable for working environment below 60 °C
High temp. version	KC5/KC6-HT	Use high temperature engineering materials for 60 ° C - 200 ° C working environment
Explosion-proof version	KC5/KC6-F	Use anti-static materials to avoid static sparks, suited for oils and flammable environments
Oil resistant version	KC5/KC6-OT	Special engineering materials, strong oil resistance, can be used for oil tank cleaning

Model	Flow rate (L/min)				Dimensions (mm)				Connection		
	3Bar	5Bar	7Bar	10Bar	D	H	Min. tank openings	Weight (KG)	FR-BSPP thread (F)		
KC5-50	39	50	59	71	50	175	69	1.7	3/4"-FR	/	/
KC5-100	78.8	100	120	144	50	175	69	1.7	3/4"-FR	/	/
KC5-200	156	204	240	288	50	175	69	1.7	3/4"-FR	/	/
KC5-300	232	300	355	424	50	185	82	2.9	1"-FR	/	/

Performance curve







IMPELLER DRIVEN ROTARY CLEANER

MG series rotary tank washer

Application

KLY MG series rotary tank washer is suitable for small to medium sized tanks, such as dairy, food, pharmaceutical, beer, chemical, industrial fermentation industries and occasions requiring high-impact cleaning.

Working principle

MG series tank washers drive the impeller with the cleaning fluid to drive the internal
gear reducer, and realize the revolution and rotation through the transmission mechanism
running according to the set trajectory, thus achieving a thoroughly 360°cleaning.



Design feature

Self-cleaning and self-lubricating design, meeting sanitary requirements
The speed is constant to obtain greater impact when increasing pressure
Solid stream water jet, long range, high impact force and low consumption of liquid
It can realize X-axis and Y-axis rotation, and can realize 360° three-dimensional cleaning

Technical data

Material	316LSS
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	2-20 bar
Recommended pressure	5-15 bar
Max. pressure	20 bar
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Spray angle	360°
Installation	Operation in every direction is possible

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ООО Аналог 1К1
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Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
ИНН/КПП: 6700039822/670001001
р/с 40702810601130004833
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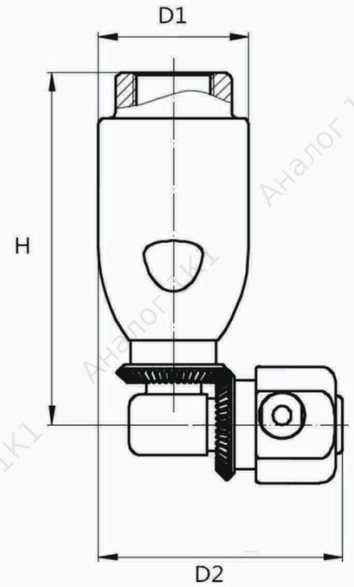
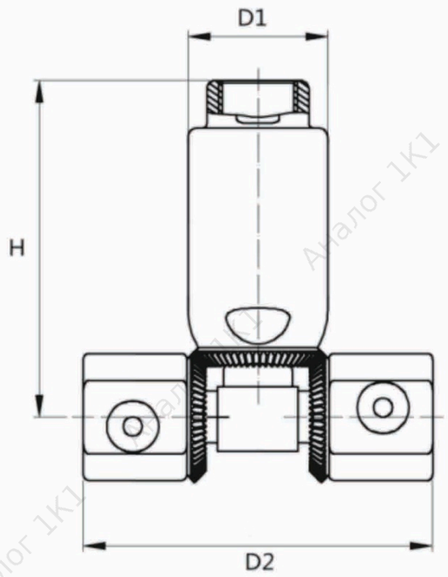
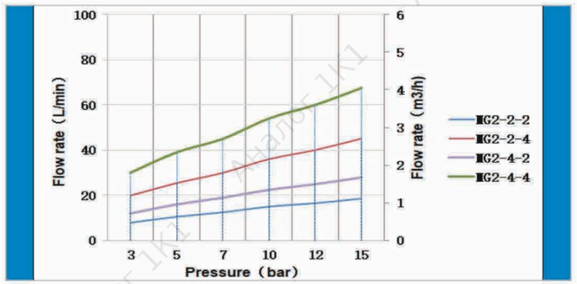
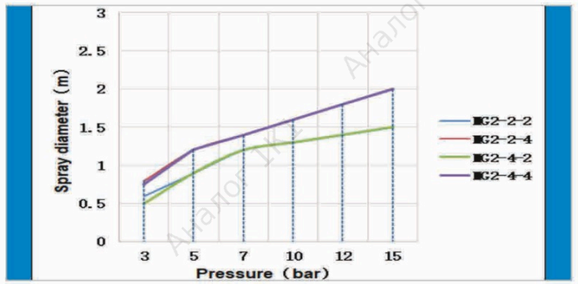


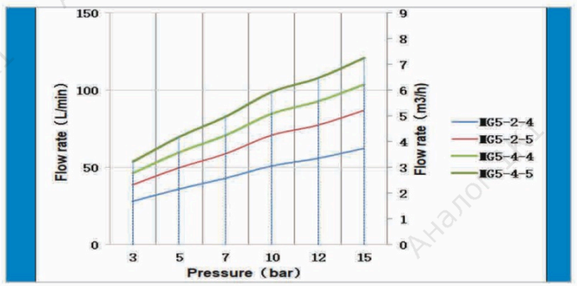


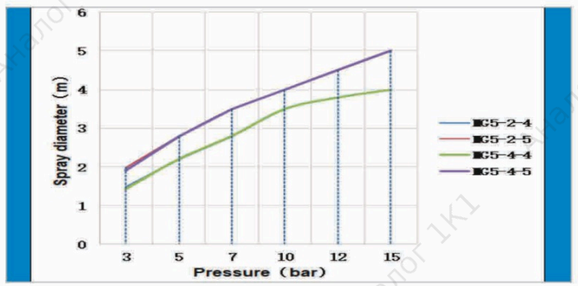
Model	Flow rate (L/min)				Dimensions (mm)					Connection	
	5Bar	7Bar	10 Bar	15 Bar	D1	D2	H	Min. tank openings	Weight(KG)	FR-BSPP thread (F)	
MG2-2-2	10.6	12.5	15	18.5	39	78	106	80	1	1/2"-FR	/
MG2-2-4	25.5	30	36	45	39	78	106	80	1	1/2"-FR	/
MG2-4-2	16	19	22.5	28	39	119	98	120	1.2	1/2"-FR	/
MG2-4-4	39	45	54	67.5	39	119	98	120	1.2	1/2"-FR	/
MG5-2-4	36	43	51	62.5	49	90.5	125	92	1.9	3/4"-FR	/
MG5-2-5	50	59	71	87	49	90.5	125	92	1.9	3/4"-FR	/
MG5-4-4	60	71	85	104	49	132	125	132	2.3	3/4"-FR	/
MG5-4-5	70	83	99	121	49	132	125	132	2.3	3/4"-FR	/
MG8-2-6	88	104.5	125	153	59	108	145	110	3	1"-FR	/
MG8-2-8	114.5	135.5	162	198	59	108	145	110	3	1"-FR	/
MG8-4-6	102.5	121	145	177.5	59	108	145	110	3.3	1"-FR	/
MG8-4-8	141	167	200	245	59	108	145	110	3.3	1"-FR	/

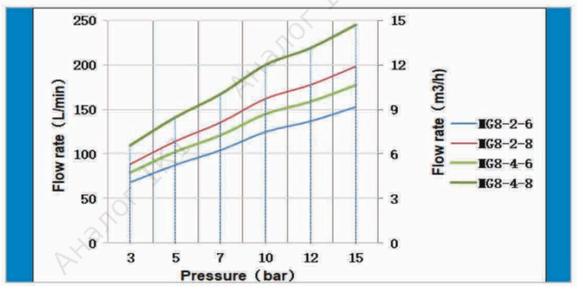
Performance curve

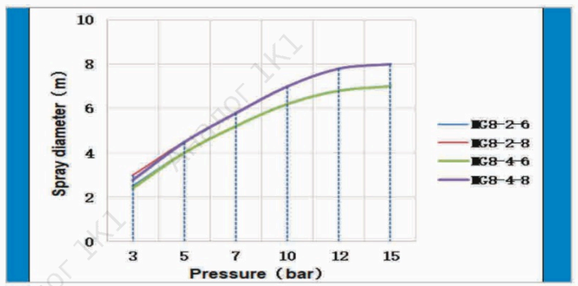












Ordering info: MG5 - 2 - 5 - 360° - 316LSS - 3/4" BSPP
Model - Nozzle qty- orifice - spray angle - Material- Connection

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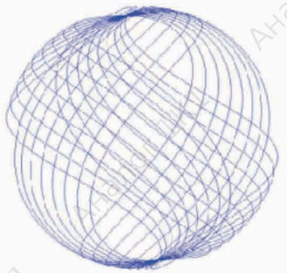
Simulation of cleaning process:



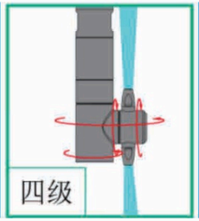
First Cycle



Full pattern

Type	Model	Feature
Standard version	MG2/MG5/ MG8	Standard configuration, suitable for working environment below 60 °C
High temp. version	MG2/MG5/ MG8-HT	Use high temperature engineering materials for 60 ° C - 200 ° C working environment
Explosion-proof version	MG2/MG5/ MG8-F	Use anti-static materials to avoid static sparks, suited for oils and flammable environments
Oil resistant version	MG2/MG5/ MG8-OT	Special engineering materials, strong oil resistance, can be used for oil tank cleaning

Ordering info: MG5 - 2 - 5 - 360° - 316LSS - 3/4" BSPP
Model - Nozzle qty- orifice - spray angle - Material- Connection



HIGH IMPACT 3D ROTARY TANK WASHER

DG2 Rotary tank washer

Application

KLY DG2 rotary tank washer is suitable for three-dimensional cleaning of small containers, such as oak barrels, beer barrels, 200L iron barrels, etc.petroleum, beverage,fuel ethanol, chemical, industrial fermentation,marine and where a high cleaning performance is required.

Working principle

DG2 series tank washers drive the impeller with the cleaning fluid to drive the internal gear reducer, and realize the revolution and rotation through the transmission mechanism running according to the set trajectory, thus achieving a thoroughly 360°cleaning.

Design feature

Optimized structural design results in a water jet that produces greater impactExcellent sealing design, less than 3% leakage, thus saves cleaning fluid.Independent gear box is designed to protect internal gear from damage and can work in poor water quality.
Overall optimized design,able to insert in small openings of 45MM



Technical data

Material	316LSS, PEEK, EPDM
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	2-30 bar
Recommended pressure	5-20 bar
Max. pressure	30 bar
Max. spray diameter	2m
Spray angle	360°
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Cleaning cycle	2-4 minutes
Connection	3/4" BSPP (NPT thread on request)
Weight	2.1 kg
Min. tank openings	45mm
Installation	Operation in every direction is possible

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Иван Рожков
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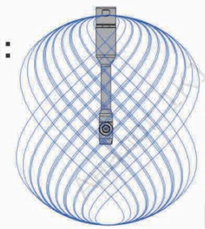
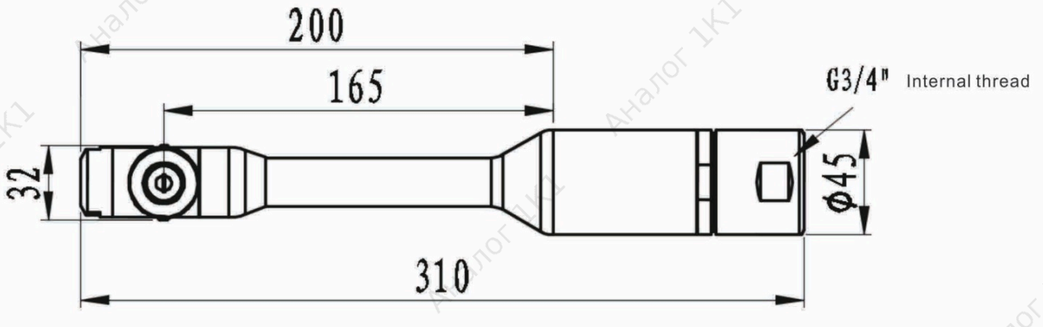
Simulation of cleaning process:



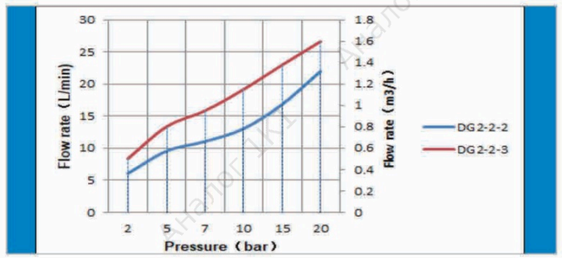
First Cycle



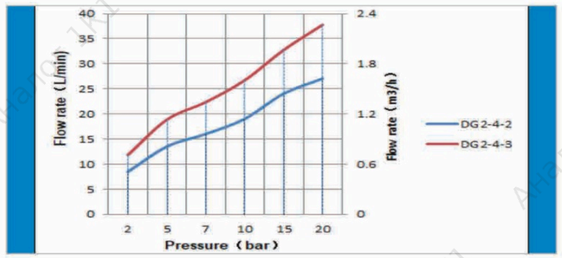
Full pattern

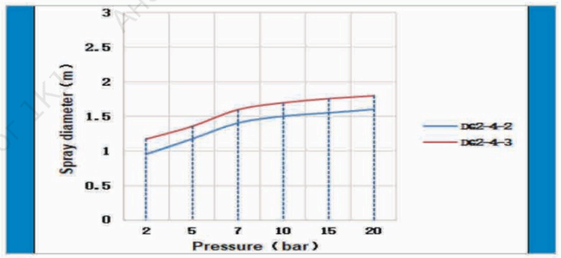


Performance curve

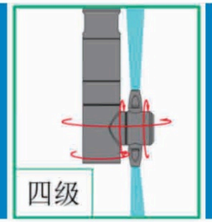








Ordering info: DG2 - 2 - 2 - 360° - 316LSS - 3/4" BSPP
Model - Nozzle qty- orifice - spray angle - Material- Connection



HIGH IMPACT 3D ROTARY TANK WASHER

DG5 Rotary tank washer

Application

KLY DG5 rotary tank washer is suitable for 3D cleaning of small to medium sized tanks,vessel or machines. It is commonly used in beer industry, petroleum, beverage,fuel ethanol, chemical, industrial fermentation,marine and where a high cleaning performance is required.



Working principle

DG5 series tank washers drive the impeller with the cleaning fluid to drive the internal gear reducer, and realize the revolution and rotation through the transmission mechanism running according to the set trajectory, thus achieving a thoroughly 360°cleaning.

Design feature

Optimized structural design results in a water jet that produces greater impact Excellent sealing design, less than 3% leakage, thus saves cleaning fluid.Independent gearbox design protects gears from damage and can work in poor water quality Adopt high hardness and wear resistant materials, longer service life

Technical data

Material	316LSS, PEEK, EPDM
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	2-30 bar
Recommended pressure	5-20 bar
Max. pressure	30 bar
Max. spray diameter	5m
Max. rinsing diameter	8.5 m
Spray angle	360°
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Cleaning cycle	2-4 minutes
Connection	3/4" BSPP (NPT thread on request)
Weight	2.3kg
Min. tank openings	2-nozzles version: 87mm; 4-nozzles version: 108mm
Installation	Operation in every direction is possible

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analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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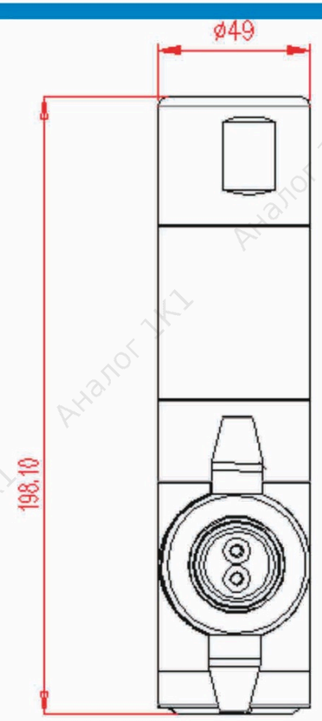
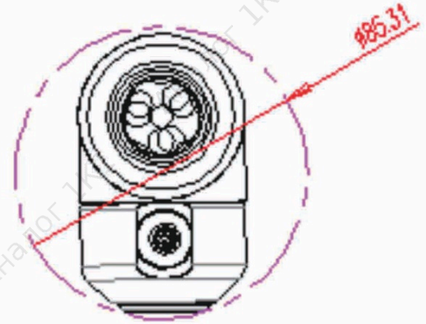
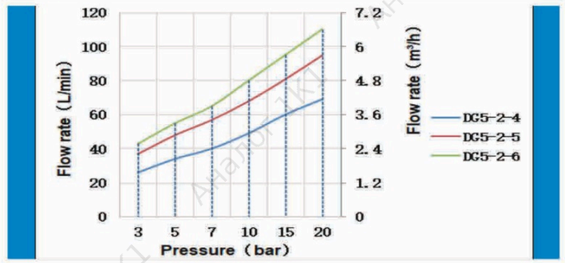
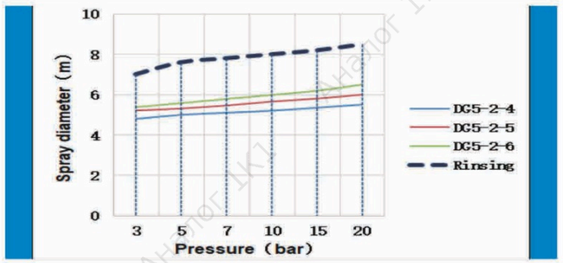
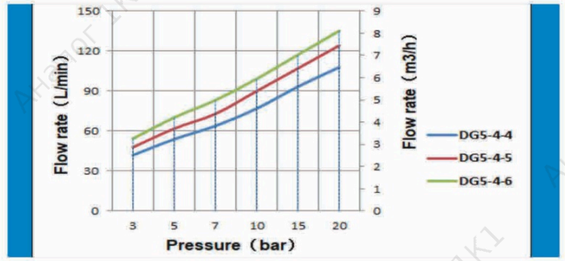


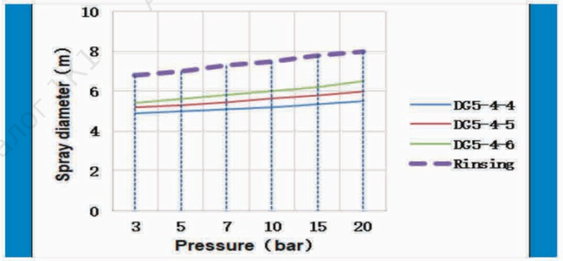


Performance curve









Ordering info: DG5 - 2 - 5 - 360° - 316LSS - 3/4" BSPP
Model - Nozzle qty- orifice - spray angle - Material- Connection

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ООО Аналог 1К1
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Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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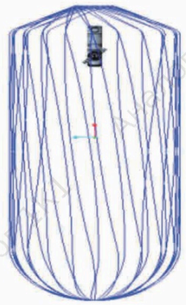
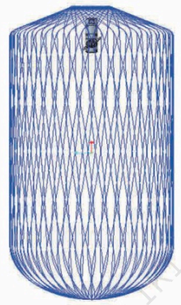
Simulation of cleaning process:



First Cycle



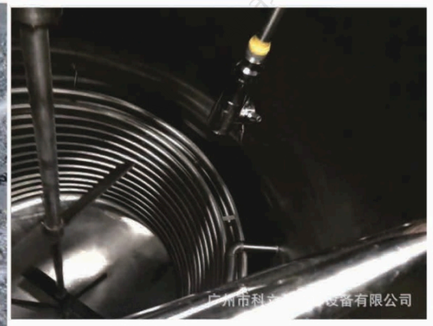
Full pattern

Type	Model	Feature
Standard version	DG5	Standard configuration, suitable for working environment below 60 °C
High temp. version	DG5-HT	Use high temperature engineering materials for 60 ° C - 200 ° C working environment
Explosion-proof version	DG5-F	Use anti-static materials to avoid static sparks, suited for oils and flammable environments
Oil resistant version	DG5-OT	Special engineering materials, strong oil resistance, can be used for oil tank cleaning

Typical application







Ordering info: DG5 - 2 - 5 - 360° - 316LSS - 3/4" BSPP
Model - Nozzle qty- orifice - spray angle - Material- Connection

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Иван Рожков
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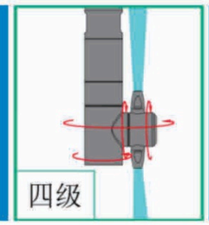


HIGH IMPACT 3D ROTARY TANK WASHER

DG6 3D rotary tank washer

Application

KLY DG6 rotary tank washer is suitable for 3D cleaning of small to medium sized tanks,vessel or machines. It is commonly used in beer industry, petroleum, beverage,fuel ethanol, chemical, industrial fermentation,marine and where a high cleaning performance is required.

Working principle

Impeller is driven by cleaning fluid and drives internal reduction mechanism.
Gear mechanism operates according to set track to realize the revolution and the rotation, thereby achieving 360° thorough cleaning.

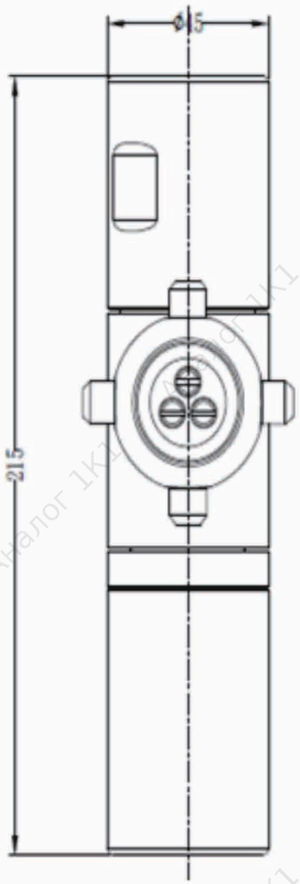
Design feature

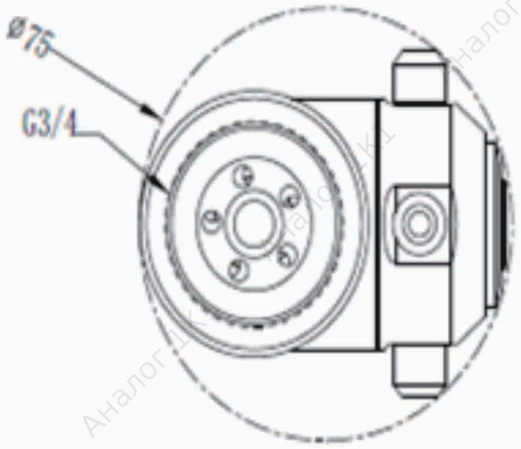
Optimized structural design results in a water jet that produces greater impactExcellent sealing design, less than 3% leakage, thus saves cleaning fluid.
Independent gearbox design protects gear from damage and can work in poor water quality
Overall optimized design can reach the minimum passing diameter of 75MM
Independent gearbox is designed with separate sealing, cleaning fluid does not pass through gearbox



Technical data

Material	316LSS,PEEK,EPDM
Lubricant	Food grade lubricants
Operating pressure	2-70 bar
Recommended pressure	5-50 bar
Max. pressure	70 bar
Max. spray diameter	6.5m
Max. rinsing diameter	9m
Spray angle	360°
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Cleaning cycle	6-12 minutes
Connection	3/4"BSPP (other connections on request)
Weight	3KG
Min. tank openings	75MM
Installation	Operation in every direction is possible





Type	Model	Feature
Standard version	DG6	Standard configuration, suitable for working environment below 60 °C
High temp. version	DG6-HT	Use high temperature engineering materials for 60 ° C - 250 ° C working environment
Explosion-proof version	DG6-F	Use anti-static materials to avoid static sparks, suited for oils and flammable environments
Oil resistant version	DG6-OT	Special engineering materials, strong oil resistance, can be used for oil tank cleaning

Ordering info: DG6 - 2 - 6 - 360° - 316LSS - 3/4" BSPP
Model - Nozzle qty- orifice - spray angle - Material- Connection

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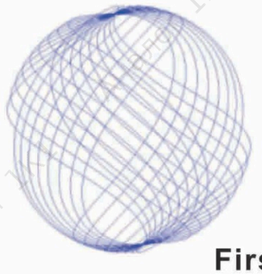
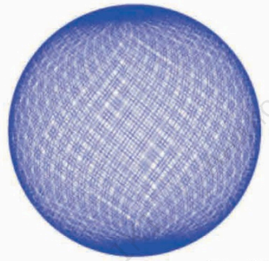
Simulation of cleaning process:

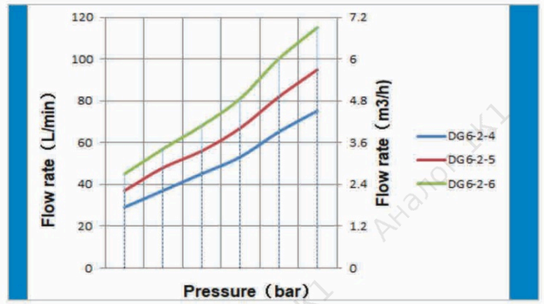


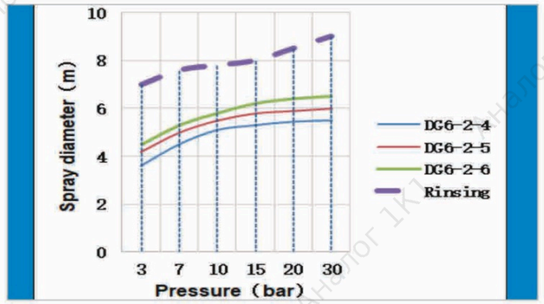
First Cycle

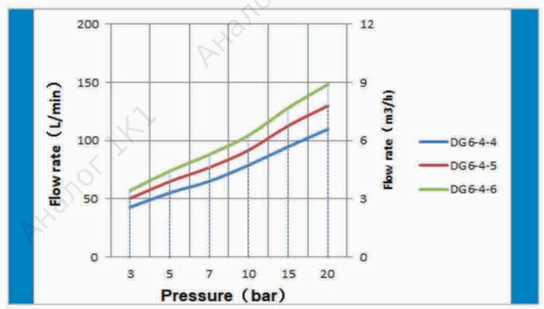


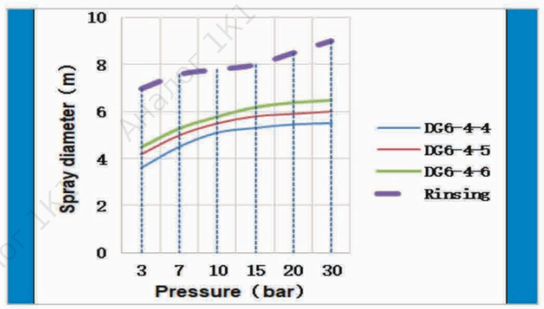
Full pattern

Performance curve









Ordering info: DG6 - 2 - 6 - 360° - 316LSS - 3/4" BSPP
Model - Nozzle qty- orifice - spray angle - Material- Connection

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ООО Аналог 1К1
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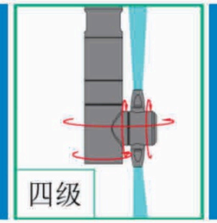
Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
ИНН/КПП: 6700039822/670001001
р/с 40702810601130004833
в АО «АЛЬФА-БАНК»



HIGH IMPACT 3D ROTARY TANK WASHER

DG8 3D rotary tank washer

Application

KLY DG8 rotary tank washer is suitable for 3D cleaning of small to medium sized tanks,vessel or machines. It is commonly used in beer industry, petroleum, beverage,fuel ethanol, chemical, industrial fermentation,marine and where a high cleaning performance is required.

Working principle

DG8 series tank washers drive the impeller with the cleaning fluid to drive the internal gear reducer, and realize the revolution and rotation through the transmission mechanism running according to the set trajectory, thus achieving a thoroughly 360°cleaning.

Design feature

Optimized structural design results in a water jet that produces greater impact
Excellent sealing design, less than 3% leakage, thus saves cleaning fluid.
Overall optimized design can reach the minimum passing diameter of 88MM
Independent gearbox is designed with separate sealing, cleaning fluid does not pass through gearbox
Adopt high hardness and wear resistant materials, longer service life



360° 180°

Technical data

Material	316LSS, PEEK, EPDM
Lubricant	Food grade lubricants
Operating pressure	2-70 bar
Recommended pressure	5-50 bar
Max. pressure	70 bar
Max. spray diameter	8m
Max. rinsing diameter	12m
Spray angle	360°
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Cleaning cycle	6-12 minutes
Connection	1-1/4"BSPP (other connections on request)
Weight	3.3KG
Min. tank openings	88MM
Installation	Operation in every direction is possible

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ООО Аналог 1К1
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analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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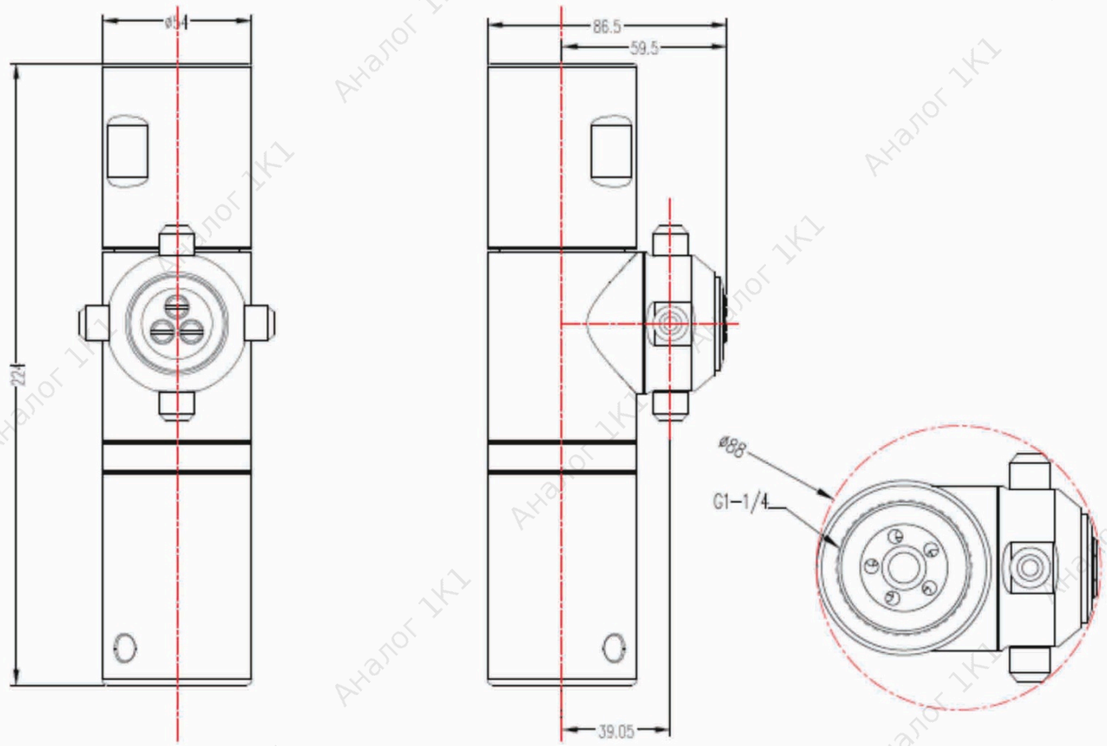
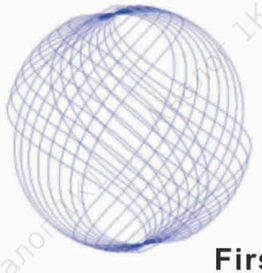


Type	Model	Feature
Standard version	DG8	Standard configuration, suitable for working environment below 60 °C
High temp. version	DG8-HT	Use high temperature engineering materials for 60 ° C - 200 ° C working environment
Explosion-proof version	DG8-F	Use anti-static materials to avoid static sparks, suited for oils and flammable environments
Oil resistant version	DG8-OT	Special engineering materials, strong oil resistance, can be used for oil tank cleaning

Ordering info: DG8 - 2 - 5 - 360° - 316LSS - 1-1/4" BSPP
Model - Nozzle qty- orifice - spray angle - Material- Connection

Simulation of cleaning process:

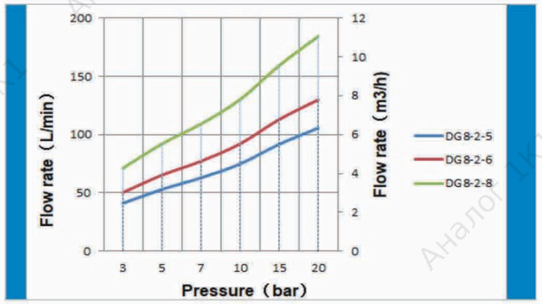


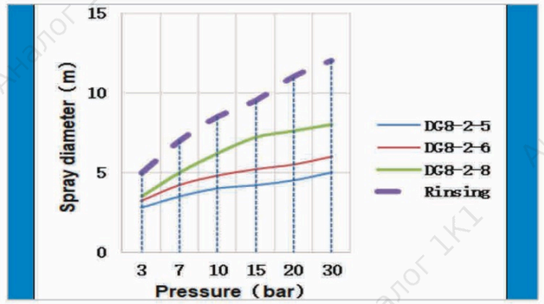
First Cycle

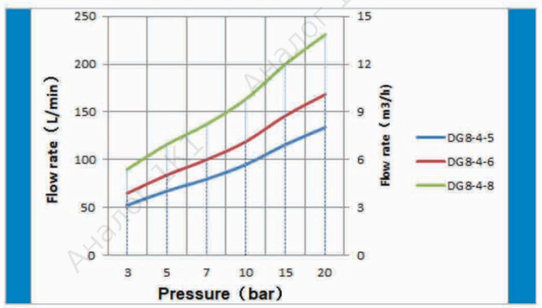


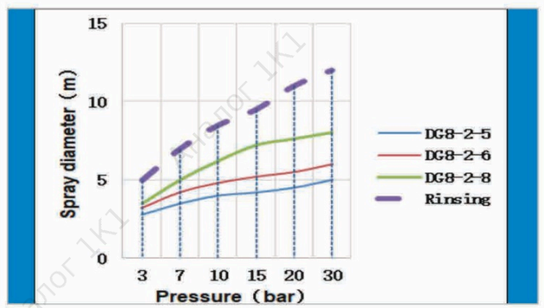
Full pattern

Performance curve









Ordering info: DG8 - 2 - 5 - 360° - 316LSS - 1-1/4" BSPP
Model - Nozzle qty- orifice - spray angle - Material- Connection

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Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
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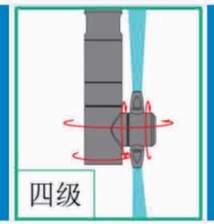


HIGH IMPACT 3D ROTARY TANK WASHER

DG15 Rotary tank washer

Application

KLY DG15 rotary tank washer is suitable for 3D cleaning of medium to large sized tanks,vessel or machines. It is commonly used in beer industry, petroleum, beverage,fuel ethanol, chemical, industrial fermentation, marine and where a high cleaning performance is required.



Working principle

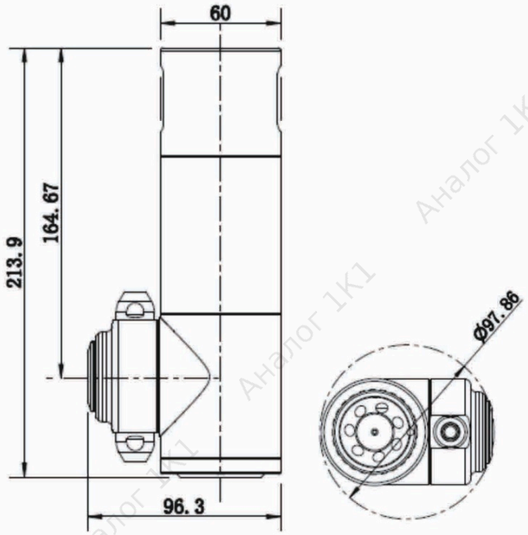
DG15 series tank washers drive the impeller with the cleaning fluid to drive the internal gear reducer, and realize the revolution and rotation through the transmission mechanism running according to the set trajectory, thus achieving a thoroughly 360°cleaning.

Design feature

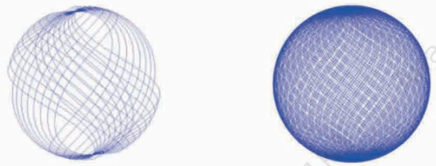
Optimized structural design results in a water jet that produces greater impact
Excellent sealing design, less than 3% leakage, thus saves cleaning fluid.Independent gear box is designed to protect internal gear from damage and can work in poor water quality.
Overall optimized design,able to insert in small openings of 98MM
Adopt high hardness and wear resistant materials, longer service life

Technical data

Material	316LSS, PEEK, EPDM
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	2-30 bar
Recommended pressure	5-20 bar
Max. pressure	30 bar
Max. spray diameter	15m
Max. rinsing diameter	20m
Spray angle	360°
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Cleaning cycle	6-8 minutes
Connection	1-1/2" BSPP (NPT thread on request)
Weight	4 kg
Min. tank openings	98mm
Installation	Operation in every direction is possible



Simulation of cleaning process:



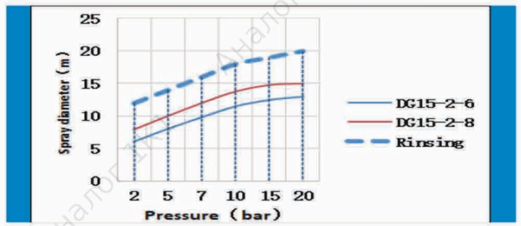
First Cycle

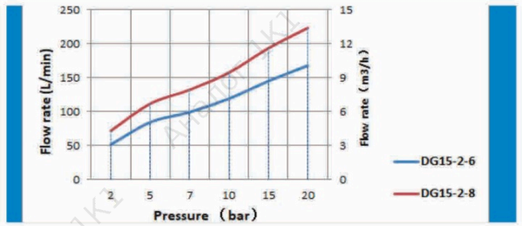
Full pattern

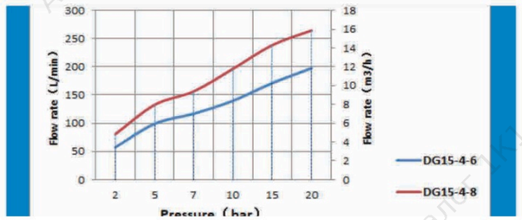
Type	Model	Feature
Standard version	DG15	Standard configuration, suitable for working environment below 60 °C
High temp. version	DG15-HT	Use high temperature engineering materials for 60 ° C - 200 ° C working environment
Explosion-proof version	DG15-F	Use anti-static materials to avoid static sparks, suited for oils and flammable environments
Oil resistant version	DG15-OT	Special engineering materials, strong oil resistance, can be used for oil tank cleaning

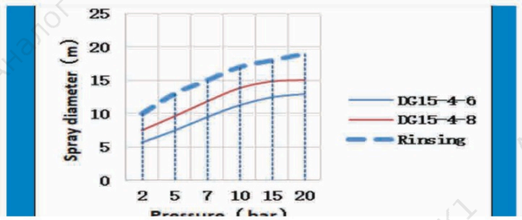
Performance curve

Ordering info: DG15 - 2 - 5 - 360° - 316LSS - - 1-1/2" BSPP
Model - Nozzle qty- orifice - spray angle - Material- Connection









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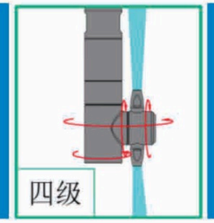


HIGH IMPACT 3D ROTARY TANK WASHER

DG20 Rotary tank washer

Application

KLY DG20 rotary tank washer is suitable for 3D cleaning of medium to large sized tanks,vessel or machines. It is commonly used in beer industry, petroleum, beverage,fuel ethanol, chemical,industrial fermentation,marine and where a high cleaning performance is required.

Working principle

DG20 series tank washers drive the impeller with the cleaning fluid to drive the internal gear reducer, and realize the revolution and rotation through the transmission mechanism running according to the set trajectory,thus achieving a thoroughly 360°cleaning.

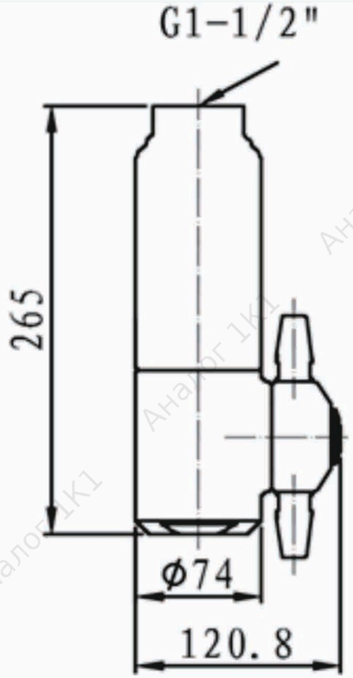
Design feature

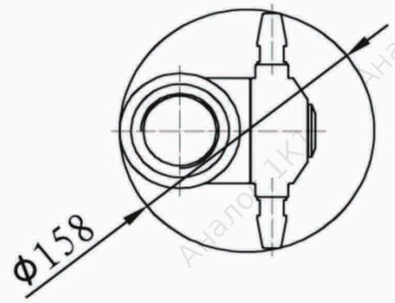
Optimized structural design results in a water jet that produces greater impact Excellent sealing design, less than 3% leakage, thus saves cleaning fluid.
Independent gear box is designed to protect internal gear from damage and can work in poor water quality.
The rotating shaft and other parts are made of tungsten carbide, which has a longer service life



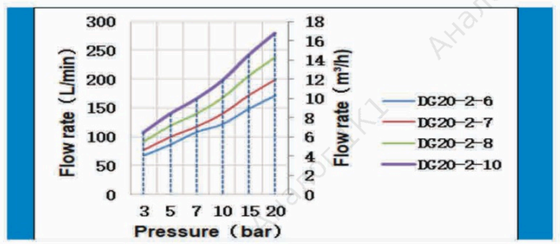
Technical data

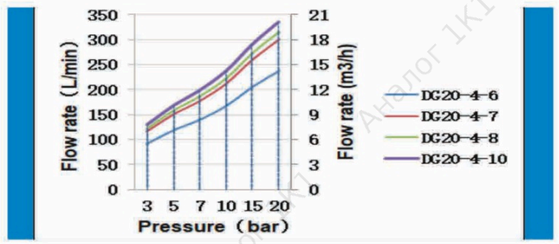
Material	316LSS, PEEK, EPDM
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	2-30 bar
Recommended pressure	5-20 bar
Max. pressure	30 bar
Max. spray diameter	20m
Max. rinsing diameter	30m
Spray angle	360°
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Cleaning cycle	8-12 minutes
Connection	1-1/2" BSPP (NPT thread on request)
Weight	6.3 kg
Min. tank openings	158mm
Installation	Operation in every direction is possible

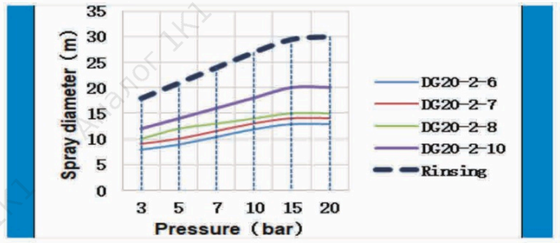


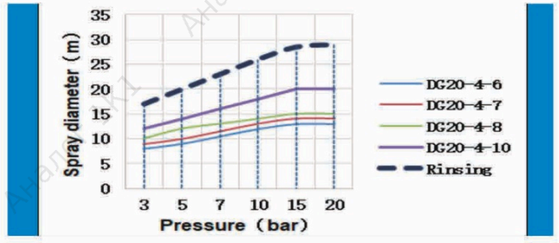


Performance curve









Ordering info: DG20 - 2 - 8 - 360° - 316LSS - 1-1/2" BSPP
Model - Nozzle qty- orifice - spray angle - Material- Connection

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Тел. +7-951-711-91-19
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Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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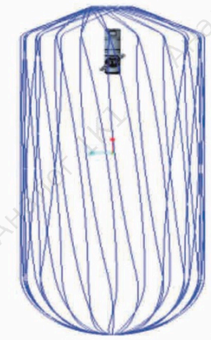
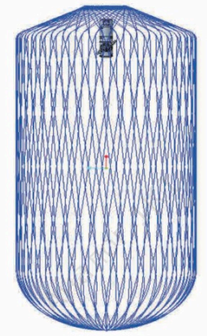
Simulation of cleaning process:



First Cycle



Full pattern

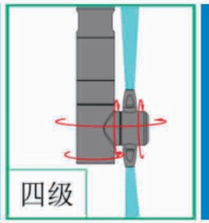
Type	Model	Feature
Standard version	DG20	Standard configuration, suitable for working environment below 60 °C
High temp. version	DG20-HT	Use high temperature engineering materials for 60 ° C - 200 ° C working environment
Explosion-proof version	DG20-F	Use anti-static materials to avoid static sparks, suited for oils and flammable environments
Oil resistant version	DG20-OT	Special engineering materials, strong oil resistance, can be used for oil tank cleaning

Typical application





Ordering info: DG20 - 2 - 8 - 360° - 316LSS - 1-1/2" BSPP
Model - Nozzle qty- orifice - spray angle - Material- Connection



HIGH IMPACT 3D ROTARY TANK WASHER

DG25 Rotary tank washer

Application

KLY DG25 series rotary tank washer is suitable for three-dimensional cleaning of medium and large tanks, spray dryer, fracturing mud tanks, fermentation tanks, cabin and storage tanks, such as oil tank cleaning stations, beer, pharmaceuticals, marine, chemical, industrial fermentation industry and occasions requiring high-impact cleaning.

Working principle

DG25 series tank washers drive the impeller with the cleaning fluid to drive the internal gear reducer, and realize the revolution and rotation through the transmission mechanism running according to the set trajectory, thus achieving a thoroughly 360°cleaning.

Design feature

Optimized structural design results in a water jet that produces greater impact
Excellent sealing design, less than 3% leakage, thus saves cleaning fluid.
Independent gearbox design protects gear from damage and can work in poor water quality The rotating shaft and other parts are made of tungsten carbide, which has a longer life
Independent gearbox is designed with separate sealing, cleaning fluid does not pass through gearbox



Technical data

Material	316LSS, PEEK, EPDM
Lubricant	Food grade lubricants
Operating pressure	2-70 bar
Recommended pressure	5-50 bar
Max. pressure	70 bar
Max. spray diameter	25m
Max. rinsing diameter	37.5m
Spray angle	360°
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Cleaning cycle	8-12 minutes
Connection	1-1/2" BSPP (NPT thread on request)
Weight	6.3 kg
Min. tank openings	158mm
Installation	Operation in every direction is possible

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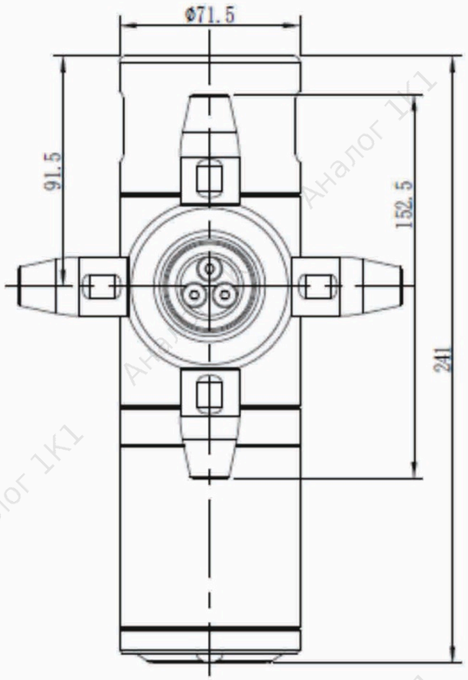
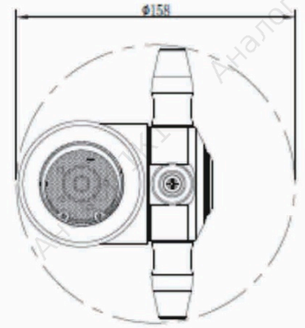
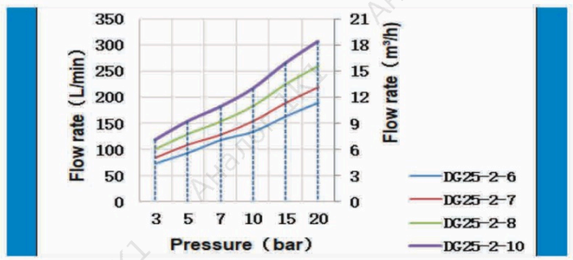
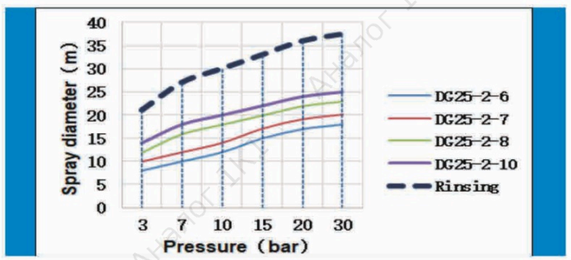
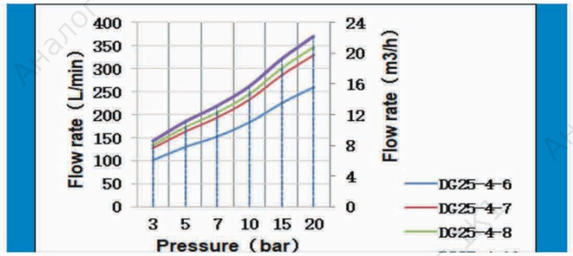


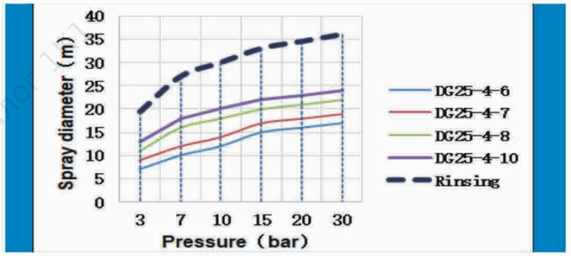


Performance curve

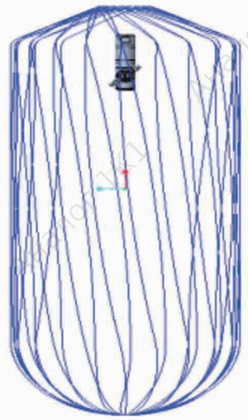




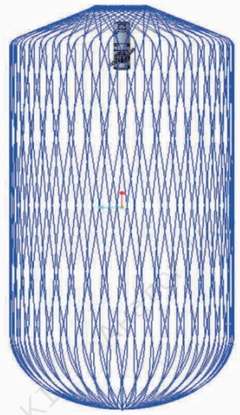




Simulation of cleaning process:



First Cycle



Full pattern

Type	Model	Feature
Standard version	DG25	Standard configuration, suitable for working environment below 60 °C
High temp. version	DG25-HT	Use high temperature engineering materials for 60 ° C - 200 ° C working environment
Explosion-proof version	DG25-F	Use anti-static materials to avoid static sparks, suited for oils and flammable environments
Oil resistant version	DG25-OT	Special engineering materials, strong oil resistance, can be used for oil tank cleaning

Ordering info: DG25 - 2 - 6 - 360° - 316LSS - 1-1/2" BSPP
Model - Nozzle qty- orifice - spray angle - Material- Connection

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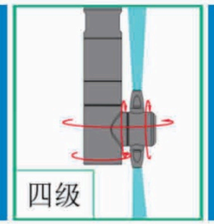


HIGH IMPACT 3D ROTARY TANK WASHER

DG30 3D rotary tank washer

Application

KLY DG30 rotary tank washer is suitable for 3D cleaning of medium to large sized tanks,vessel or machines. It is commonly used in beer industry, petroleum, beverage,fuel ethanol, chemical,industrial fermentation,marine and where a high cleaning performance is required.

Working principle

DG30 series tank washers drive the impeller with the cleaning fluid to drive the internal gear reducer, and realize the revolution and rotation through the transmission mechanism running according to the set trajectory, thus achieving a thoroughly 360°cleaning.

Design feature

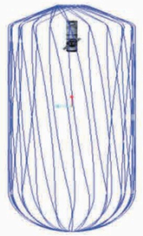
Optimized structural design, water jet with greater impact
Excellent sealing design, less than 3% leakage, water-saving
Independent gear box is adopted to protect gears from damage
Designed for large tanks and vessels



Technical data

Material	316LSS, PEEK, EPDM
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	2-30 bar
Recommended pressure	5-15 bar
Max. pressure	30 bar
Max. spray diameter	40m
Max. rinsing diameter	50m
Spray angle	360°
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Cleaning cycle	6-12 minutes
Connection	2"BSPP (Other connections on request)
Weight	18.5 kg
Min. tank openings	172mm
Installation	Operation in every direction is possible

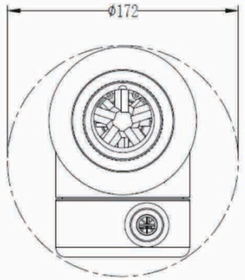
Simulation of cleaning process:

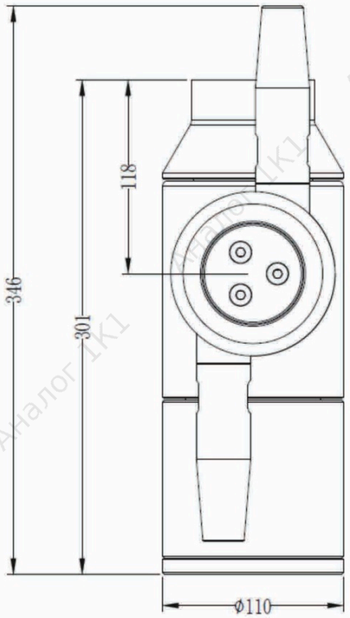


First Cycle

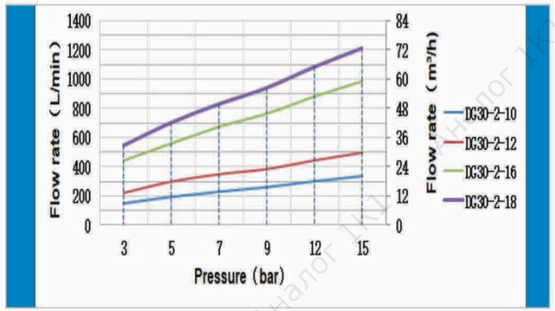


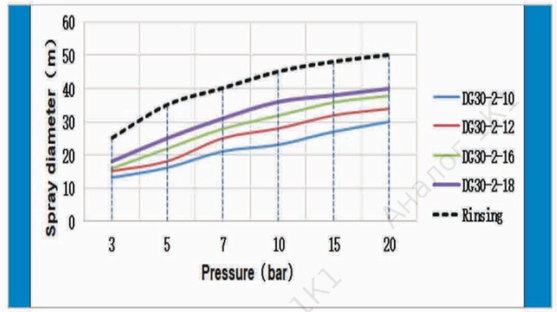
Full pattern





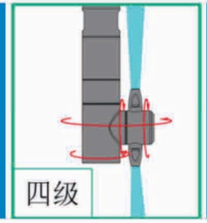
Performance curve





Type	Model	Feature
Standard version	DG30	Standard configuration, suitable for working environment below 60 °C
High temp. version	DG30-HT	Use high temperature engineering materials for 60 ° C - 200 ° C working environment
Explosion-proof version	DG30-F	Use anti-static materials to avoid static sparks, suited for oils and flammable environments
Oil resistant version	DG30-OT	Special engineering materials, strong oil resistance, can be used for oil tank cleaning

Ordering info: DG30 - 2 - 12 - 360° - 316LSS - 2" BSPP
Model - Nozzle qty- orifice - spray angle - Material- Connection



HIGH IMPACT 3D ROTARY TANK WASHER

TCM15 3D rotary tank washer

Application

KLY TCM15 rotary tank washer is suitable for 3D cleaning of medium to large sized tanks, vessel or machines. It is commonly used in beer industry, petroleum, beverage,fuel ethanol, chemical,industrial fermentation,marine and where a high cleaning performance is required.

Working principle

This series of tank washer drives the impeller through cleaning liquid and drives the transmission mechanism. The speed of rotation is regulated by the worm gear reduction mechanism. Operate according to the set trajectory to realize revolution and rotation, so as to realize 360° coverage cleaning.

Design feature

Optimized structural design results in a water jet that produces greater impact
Sturdy and durable, long service life, easy to maintain
Optimized cycle time, lower liquid consumption and lower energy costs
Design for automatic cleaning of medium and large sized tank





Technical data

Material	316LSS, PEEK, EPDM
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	2-30 bar
Recommended pressure	5-20 bar
Max. pressure	30 bar
Max. spray diameter	25m
Max. rinsing diameter	35m
Spray angle	360°
Max. working temperature	95°C
Max. ambient temperature	120°C
Cleaning cycle	6-12 minutes
Connection	1-1/2" BSPP (NPT thread on request)
Weight	12KG
Min. tank openings	165mm
Installation	Operation in every direction is possible

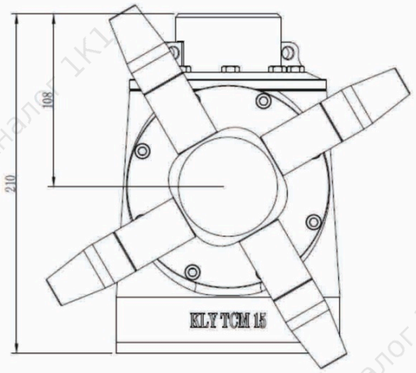
Simulation of cleaning process:

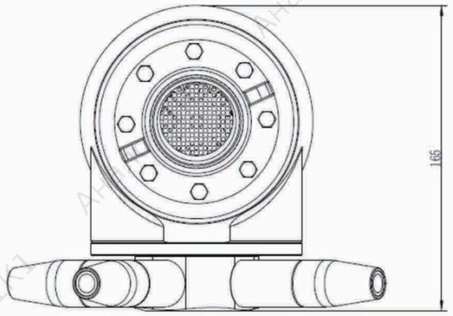


First Cycle

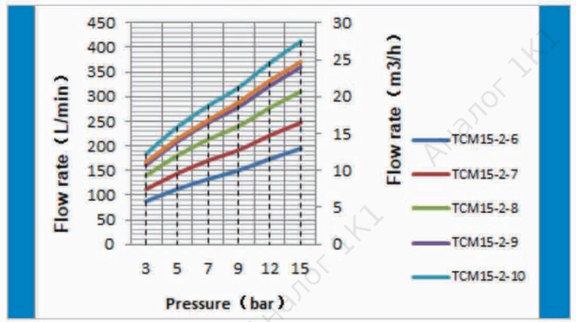


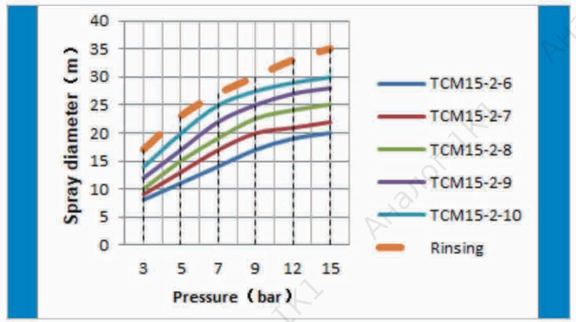
Full pattern

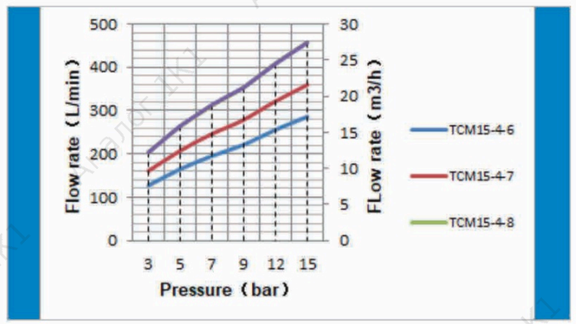


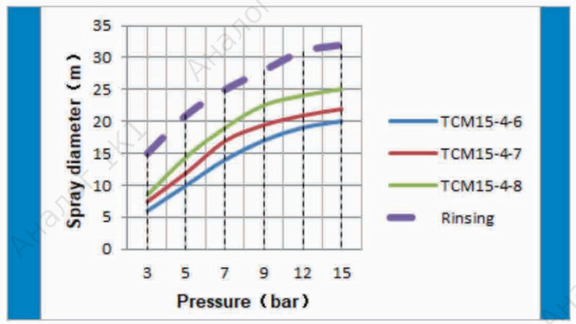


Performance curve









Ordering info: TCM15 - 2 - 8 - 360° - 316LSS - 1-1/2" BSPP
Model - Nozzle qty- orifice - spray angle - Material- Connection

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ООО Аналог 1К1
Заменить не изменяя!
Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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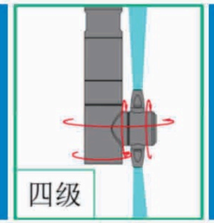


HIGH IMPACT 3D ROTARY TANK WASHER

TCM45 rotary tank washer

Application

KLY TCM45 rotary tank washer is suitable for 3D cleaning of large sized tanks,vessel or machines. It is commonly used in beer industry, petroleum, beverage,fuel ethanol, chemical,industrial fermentation,marine and where a high cleaning performance is required.

Working principle

This series of tank washer drives the impeller through cleaning liquid and drives the transmission mechanism. The speed of rotation is regulated by the worm gear reduction mechanism. Operate according to the set trajectory to realize revolution and rotation, so as to realize 360° coverage cleaning.

Design feature

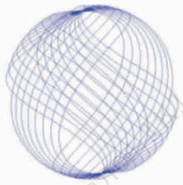
Optimized structural design results in a water jet that produces greater impact
Sturdy and durable, long service life, easy to maintain
Optimized cycle time, lower liquid consumption and lower energy costs .
Design for automatic cleaning of large tank



Technical data

Material	316LSS, PEEK, EPDM
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	2-30 bar
Recommended pressure	5-20 bar
Max. pressure	30 bar
Max. spray diameter	45m
Max. rinsing diameter	65m
Spray angle	360°
Max. working temperature	95°C
Max. ambient temperature	120°C
Cleaning cycle	6-12 minutes
Connection	2" BSPP (NPT thread on request)
Weight	19KG
Min. tank openings	205mm
Installation	Operation in every direction is possible

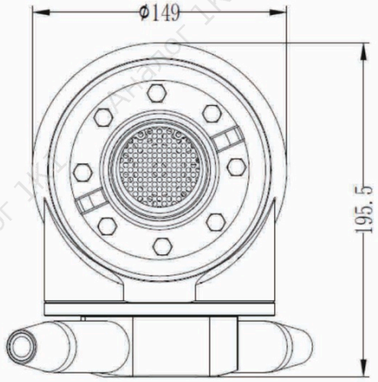
Simulation of cleaning process:

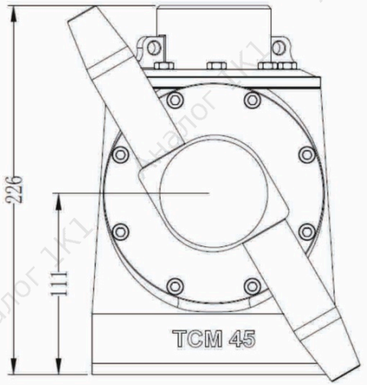


First Cycle

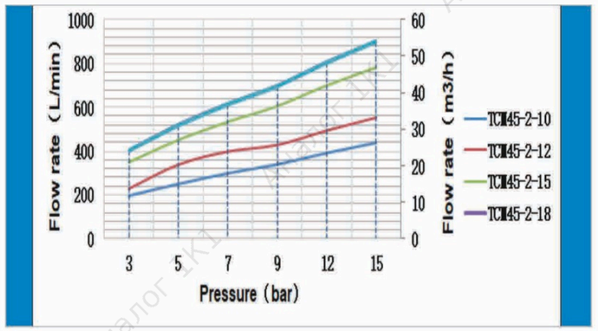


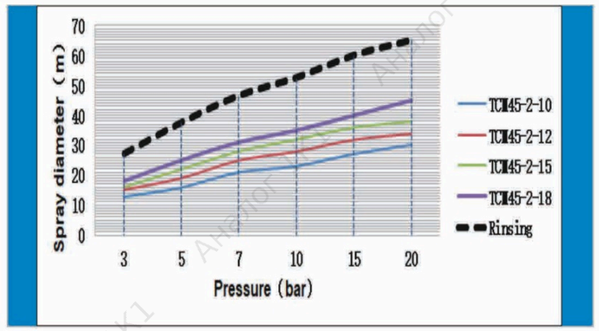
Full pattern





Performance curve





Ordering info: TCM45 - 2 - 12 - 360° - 316LSS - 2" BSPP
Model - Nozzle qty- orifice - spray angle - Material- Connection

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Заменить не изменяя!
Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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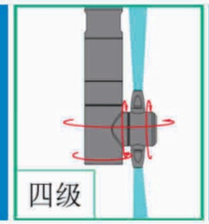


HIGH IMPACT 3D ROTARY TANK

TG series sanitary 3D rotary tank washer

Application

TG series tank washer is suitable for 3D cleaning of small and medium-sized tanks and container for processing, storage and transportation, such as pharmaceutical, wine, food, dairy and solvent cleaning industries.

Working principle

TG series tank washers drive the impeller with the cleaning fluid to drive the internal gear reducer, and realize the revolution and rotation through the transmission mechanism running according to the set trajectory, thus achieving a thoroughly 360°cleaning.

Design feature

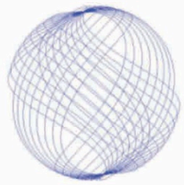
Sanitary design, self-cleaning and self-lubricating
The water blast every part and gear box of the washer
The gear is made out of PTFE which is comply with FDA.
Optimized design, strong impact,low fluid consumption



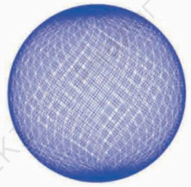
Technical data

Material	316LSS, PEEK, EPDM
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	2-10 bar
Recommended pressure	3-7bar
Max. pressure	10 bar
Max. spray diameter	4m
Max. rinsing diameter	7m
Spray angle	360°
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Cleaning cycle	4-8 minutes
Water inlet	3/4"BSPP ,1.5" tri-clamp
Tank connection	4" tri-clamp (Other connection can be customized)
Weight	5.5-8.5KG
Min. tank openings	80mm
Installation	Operation in every direction is possible

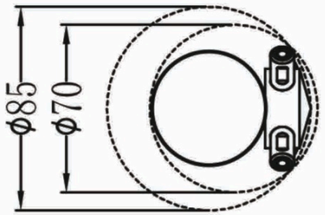
Simulation of cleaning process:

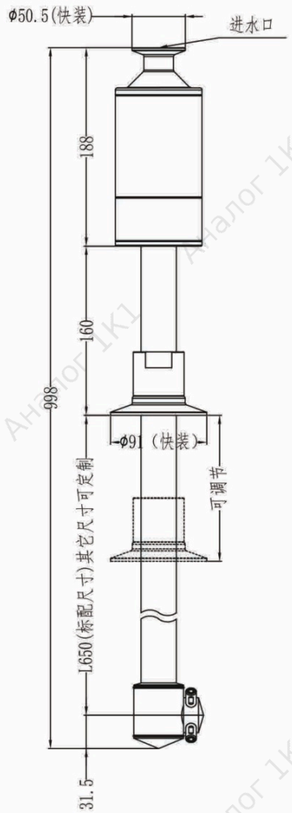


First Cycle

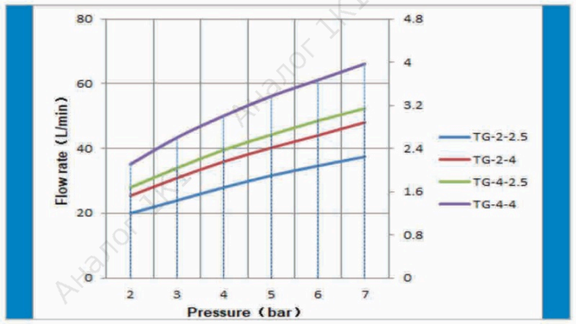


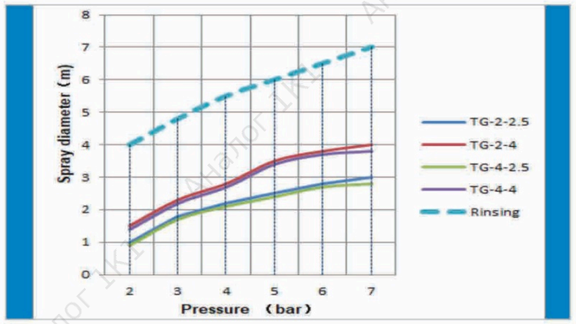
Full pattern





Performance curve





Ordering info: TG- 500 - 2 - 2 - 316LSS - G3/4-FR - 4" TC
Model- Length - Nozzle qty- Nozzle orifice - Material- Water inlet- Tank connection

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Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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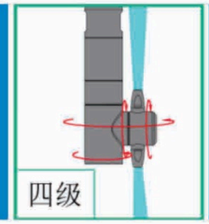


TANK WASHER(MARINE CLEANING MACHINE)

XCJ30 marine cleaning machine

Application

KLY XCJ30 Single nozzle tank cleaning equipment for tank, cabin and container cleaning in hazardous areas. Such as crude oil storage tanks, large chemical containers, fermenters, reaction tanks, silos, dry silos, single tank.

Working principle

Automotive and set by free, It can be set by the user to save energy and cleaning agents to the greatest extent.
Component: a detachable reduction unit and a cleaning unit installed inside the tank.

Design feature

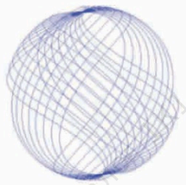
Optimize design to produce high impact jet
Rugged and durable, long service life, easy to maintain
Optimize circle time to reduce the consumption of energy and cleaning agent
Design for automatic cleaning of large tank and marine



Technical data

Material	316LSS, PEEK, EPDM
Lubricant	Self-lubricating by cleaning fluid
Operating pressure	5-14 bar
Recommended pressure	6-12 bar
Max. pressure	14 bar
Max. spray diameter	34m
Max. rinsing diameter	46m
Max. working temperature	95°C
Max. ambient temperature	120°C
Water inlet	PN16 DN50 flange
Tank connection	PN16 DN150 flange
Weight	43KG
Min. tank openings	180 mm
Installation	Operation in every direction is possible

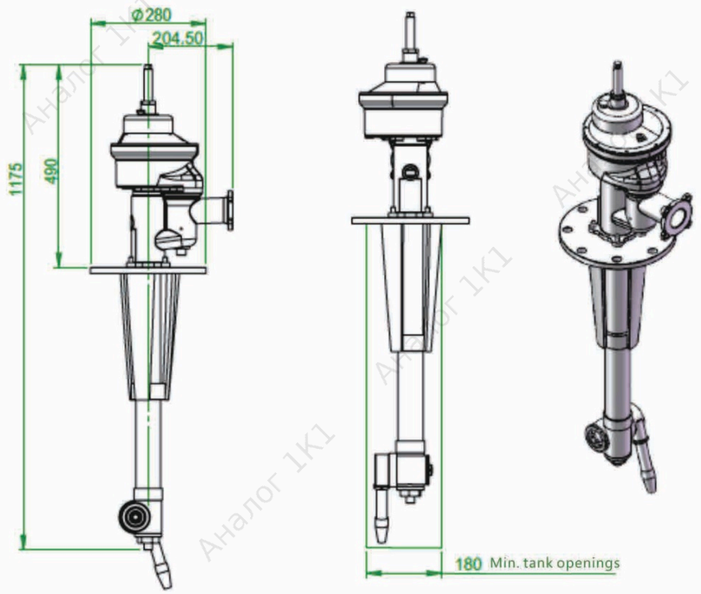
Simulation of cleaning process:



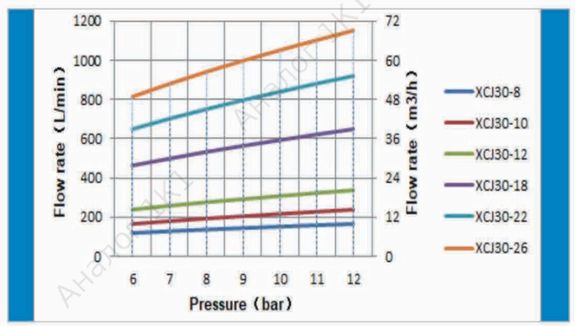
First Cycle

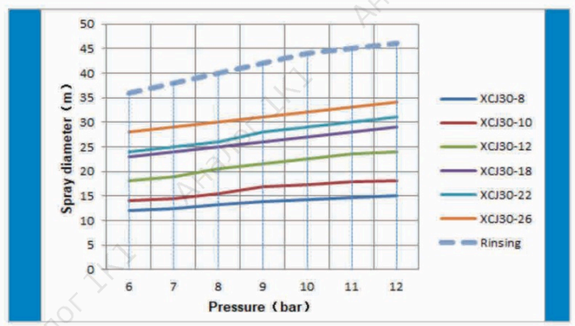


Full pattern



Performance curve





Ordering info: XCJ30 - 10 - 316LSS - DN50
Model- Nozzle orifice- Material- Water inlet

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ООО Аналог 1К1
Заменить не изменяя!
Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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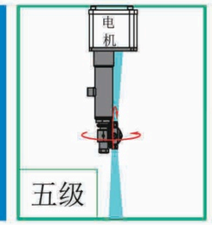


MOTOR DRIVE HIGH PRESSURE CLEANER

MMD Motor drive high pressure cleaner

Application

Ideal for cleaning: small tanks, totes, such as fuel ethanol, beer, chemical, fermentation and other occasions that need high impact cleaning.

Working principle

MMD rotary tank washer is driven and rotated by an external motor, which drives the washer head to rotate, and the gear mechanism operates according to the set trajectory to realize revolution and rotation, thus achieving 360° thoroughly cleaning.

Design feature

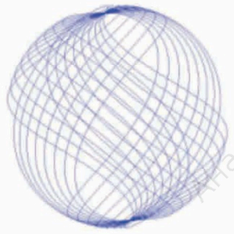
Optimized design makes the water jet with greater impact force
Excellent seal design, so that the leakage of water less than 3%
External motor drive is adopted to reduce pressure loss of water flow and generate higher water impact force
Up to 200 bar pressure
Overall optimization design can reach the minimum through 45MM
Easily passes through a 2 in. sch 40 pipe



Technical data

Material	316LSS, PEEK, EPDM
Operating pressure	2-200 bar
Recommended pressure	10-200 bar
Max. pressure	200 bar
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Spray angle	360°
Installation	Operation in every direction is possible
Nozzle orifice	1.0mm, 1.2mm, 1.5mm
Max. spray diameter	1-1.5m
Length of lance	500,1000mm
Parameters of motor	Voltage DC12V,Power 60W(optional explosion-proof motor, optional speed motor)
Connection	thread or flange
Water inlet	3/8" BSPP (other connection on request)
Cleaning cycle time	4-6 minutes
Weight	5-9kg

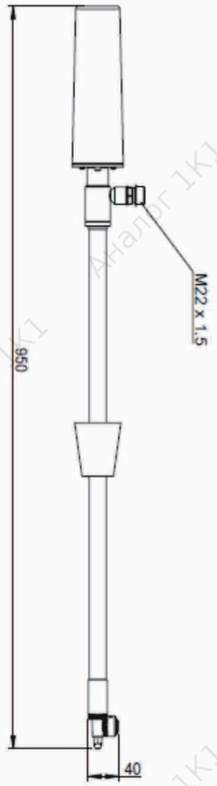
Simulation of cleaning process:



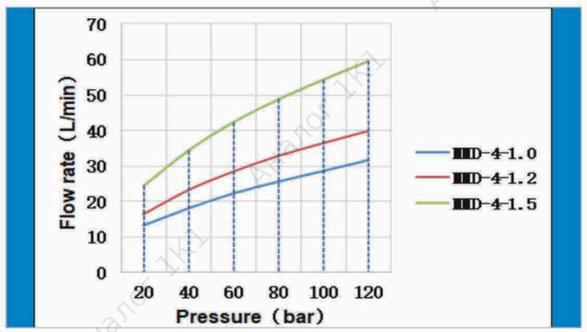
First Cycle

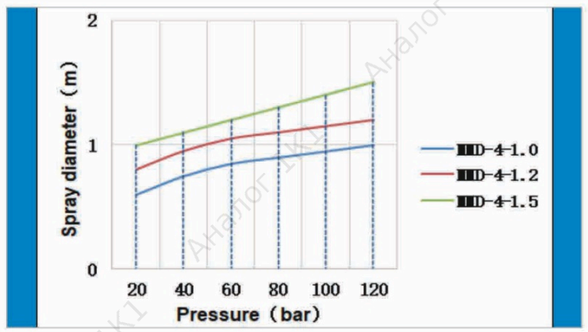


Full pattern

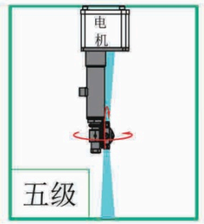


Performance curve





Ordering info. : MMD- 4 - 1.0 - 360°- 316LSS- 3/8"BSPP
Model Nozzle qty Orifice spray angle material Connection



MOTOR DRIVE HIGH PRESSURE CLEANER

DMD motor drive high pressure cleaner

Application

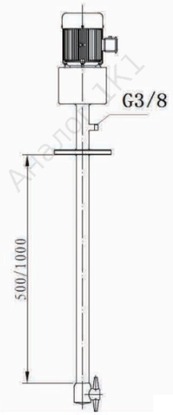
KLY DMD motor-driven three-dimensional cleaners are suitable for small to medium sized tanks and IBC totes, such as fuel ethanol, beer, chemical, industrial fermentation industries and occasions that require high-impact cleaning.

Working principle

DMD rotary tank washer is driven and rotated by an external motor, which drives the washer head to rotate, and the gear mechanism operates according to the set trajectory to realize revolution and rotation, thus achieving 360° thoroughly cleaning.

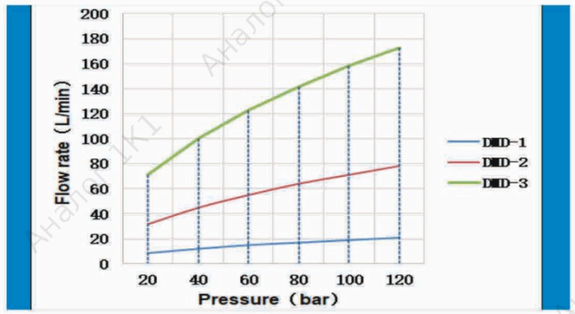
Design feature

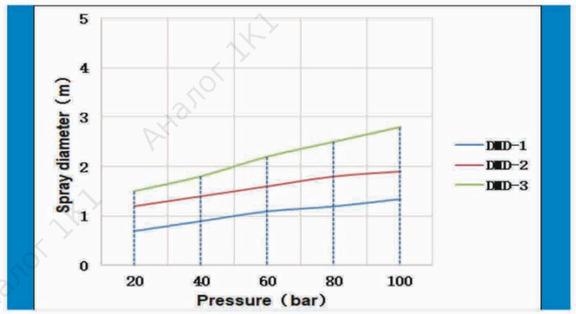
Optimized design makes the water jet with greater impact force
Excellent seal design, so that the leakage of water less than 3%
External motor drive is adopted to reduce pressure loss of water flow and generate higher water impact force
Up to 200 bar pressure





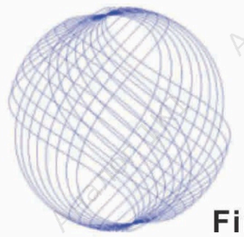
Performance curve



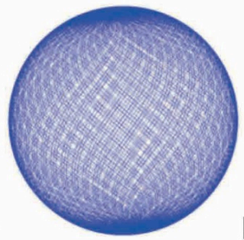


Ordering info: DMD-1 - 360°- 316LSS- 3/8"BSPP
Model- Spray angle Material Water inlet

Simulation of cleaning process:



First Cycle



Full pattern

Technical data

Material	316LSS,304SS,EPDM
Operating pressure	2-350 bar
Recommended pressure	10-300 bar
Max. pressure	350 bar
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Spray angle	360°
Installation	Operation in every direction is possible
Nozzle orifice	1,2,3mm (1.2,1.5,1.8mm can be customized)
Max. spray diameter	1-3m
Length of lance	500,1000mm
Parameters of motor	Voltage DC24V, Power 60W(optional explosion-proof motor, optional speed motor)
Connection	thread or flange
Water inlet	3/8" BSPP (other connection on request)
Cleaning cycle time	4-6 minutes
Weight	7.5-12kg

Type	Model	Feature
Standard version	DMD	Standard configuration, suitable for working environment below 60 °C
High temp. version	DMD-HT	Use high temperature engineering materials for 60 ° C - 200 ° C working environment
Oil resistant version	DMD-OT	Special engineering materials, strong oil resistance, can be used for oil tank cleaning

Typical application



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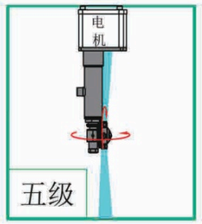
ООО Аналог 1К1
Заменить не изменяя!
Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
ИНН/КПП: 6700039822/670001001
р/с 40702810601130004833
в АО «АЛЬФА-БАНК»



AIR MOTOR DRIVE HIGH PRESSURE CLEANER

QMD Air motor drive high pressure cleaner

Application

KLY QMD air motor drive 3D cleaners are suitable for small to medium sized tanks , reactors and IBC totes, such as fuel ethanol, beer, chemical, industrial fermentation industries and occasions that require high-impact cleaning.

Working principle

QMD rotary washer is driven and rotated by an external air motor, which drives the washer head to rotate, and the gear mechanism operates according to the set trajectory to realize revolution and rotation, thus achieving 360° thoroughly cleaning.

Design feature

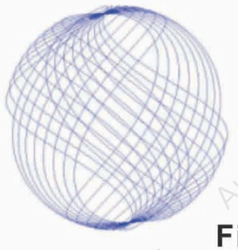
Optimized design makes the water jet with greater impact force
Excellent seal design, so that the leakage of water less than 3%
External motor drive is adopted to reduce pressure loss of water flow and generate higher water impact force
Driven by an external air motor, used in explosion-proof applications
Low consumption of fluid



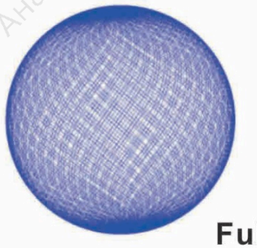
Technical data

Material	316LSS,304SS,EPDM
Operating pressure	2-300 bar
Recommended pressure	3-200 bar
Max. pressure	300 bar
Max. working temperature	Standard version 60°C , high temperature version 120°C
Max. ambient temperature	Standard version 100°C , high temperature version 200°C
Spray angle	360°
Installation	Operation in every direction is possible
Nozzle orifice	1,2,3mm (1.2,1.5,1.8mm can be customized)
Max. spray diameter	1-3m
Length of lance	500,1000mm
Parameters of motor	1000RPM,Air pressure≥3bar
Connection	thread or flange
Water inlet	3/8" BSPP (other connection on request)
Cleaning cycle time	4-6 minutes
Weight	7.5-12kg

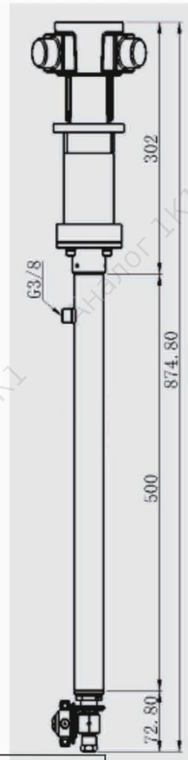
Simulation of cleaning process:



First Cycle



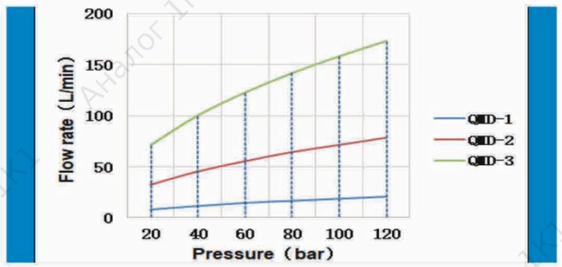
Full pattern

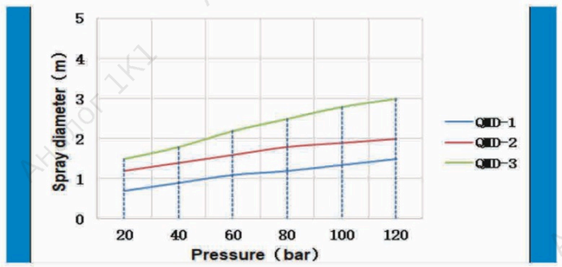


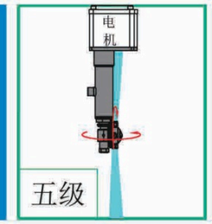
Ordering info: QMD-1 - 360°- 316LSS- 3/8"BSPP
Model- Spray angle Material Water inlet

Type	Model	Feature
Standard version	QMD	Standard configuration, suitable for working environment below 60 °C
High temp. version	QMD-HT	Use high temperature engineering materials for 60 ° C - 200 ° C working environment
Oil resistant version	QMD-OT	Special engineering materials, strong oil resistance, can be used for oil tank cleaning

Performance curve







MOTOR DRIVE HIGH PRESSURE CLEANER

XMT1000 oak barrel cleaner

Application

XMT1000 cleaner is suitable for wine barrels, drum barrels, small barrels, etc. in the beer and wine industries.

Working principle

The barrel cleaner is driven by an external motor to drive cleaning head to rotate. The gear mechanism realizes rotation and revolution according to the set running track, so as to realize 360° coverage . The cleaning waste water is automatically sucked out by the suction head through the suction pipe to generate negative pressure, and then discharged through the drainage port.

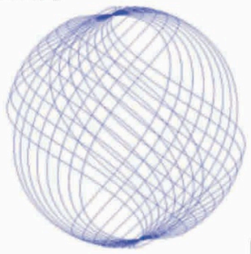
Design feature

Wash from the top of barrel without moving or rotating the bucket.
Low consumption of liquid, energy saving
Great impact, 3D rotary, 360 coverage, 100% thorough clean
Cleaning liquid is immediately vacuumed back, saving time and effort.
Self-cleaning, self-draining, no additional suction pump required
High-quality high-pressure seals, strong and durable

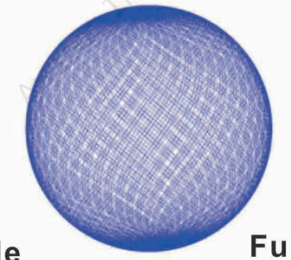


Note: L1 size is optional according to oak barrel size

Simulation of cleaning process:



First Cycle



Full pattern

Ordering info: XMT1000 - 360°- 316LSS- 3/8"BSPP
Model- Spray angle Material Water inlet

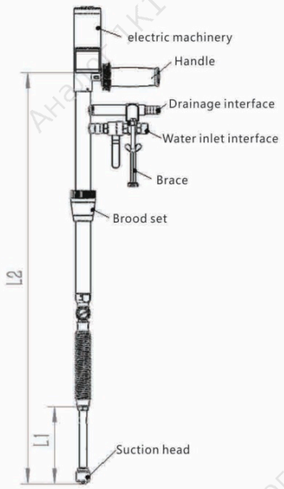
Technical data

Material	316L SS, 304 SS
Operating pressure	70 bar
Recommended pressure	30-70 bar
Max. pressure	120 bar
Flow rate	12-18 L/min
Max. working temperature	Standard version :60°C, high temp. version: 120°C
Max. ambient temperature	Standard version :100°C, high temp. version: 200°C
Spray angle	360°
Installation	Operation in every direction is possible
Max. spray diameter	1-1.5m
Length of lance	500、1000mm
Sealing method with barrel mouth	Taper sleeve
Water inlet	M22*1.5 or 3/8"BSPP male thread
Drain connection	16mm hose id tail
Cleaning cycle time	2-4 minutes
Weight	7.5-9KG

Typical application







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ООО Аналог 1К1
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Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
ИНН/КПП: 6700039822/670001001
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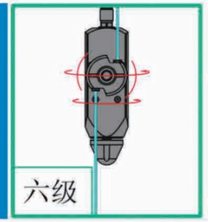


HIGH PRESSURE CLEANING HEAD

TCC2 high pressure cleaning head

Application

TCC2 high-pressure 2D rotary washer is suitable for auto industry, chemical industry and other occasions requiring high-pressure cleaning. E.g, trash can cleaning

Working principle

The washer drives the impeller through the cleaning fluid, to drive the rotary ball head through the reduction gear. And using different nozzle arrangements on the spray head for the purpose of preset spray patterns and effective cleaning.

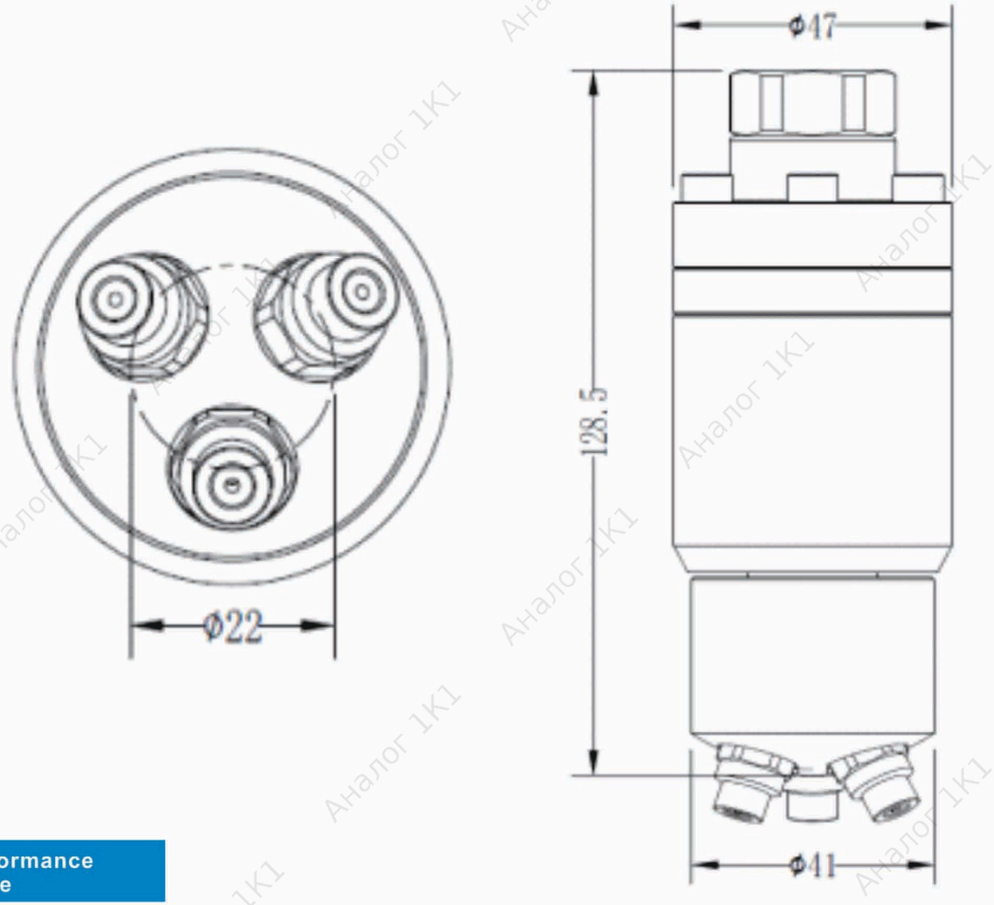
Design feature

Compact design
High cleaning efficiency
Fan nozzle or Water Jet nozzle can be replaced as required

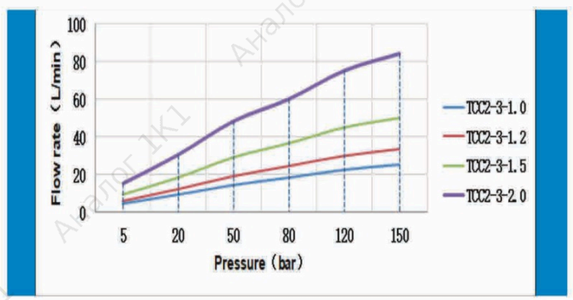


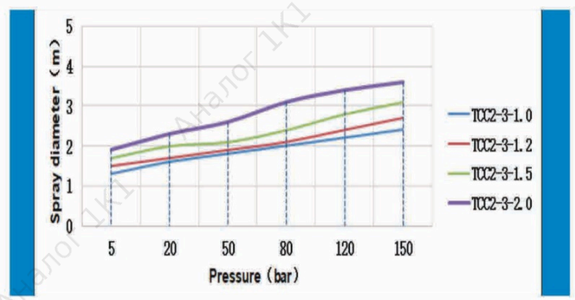
Technical data

Material	304 SS
Operating pressure	5-150 bar
Recommended pressure	10-100 bar
Max. pressure	150 bar
Max. spray diameter	1-3.5m
Spray angle	60°(Spray angle can be customized)
Max. working temperature	95℃
Max. ambient temperature	120℃
Rotation Speed	Adjustable
Connection	1/4"BSPP (Other connection can be customized)
Weight	1.2 KG
Min. tank openings	47MM
Installation	Can be installed in any direction



Performance curve





Ordering info: TCC2- 3 - 1.0 - 60° - 304SS - 1/4"BSPP
Model- Nozzle qty Nozzle orifice- Spray angle - Material - Connection

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Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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р/с 40702810601130004833
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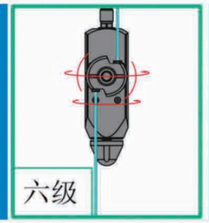


HIGH PRESSURE CLEANING HEAD

TCC5 high pressure cleaner

Application

TCC5 high pressure 2D rotary washer is designed for cleaning tanks in auto industry, chemical industry, coating industry and where high-pressure cleaning is required, such as high speed train carriage.

Working principle

The cleaner drives the impeller through cleaning fluid, to drive the rotary ball head through the reduction gear. Using different nozzle arrangements on the spray head to change the cleaning angle from 0 to 120 degrees and ensure the effective cleaning.

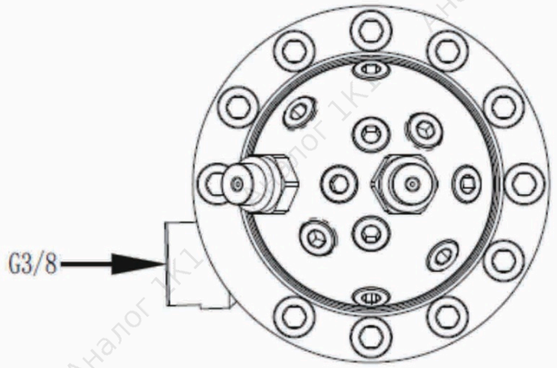
Design feature

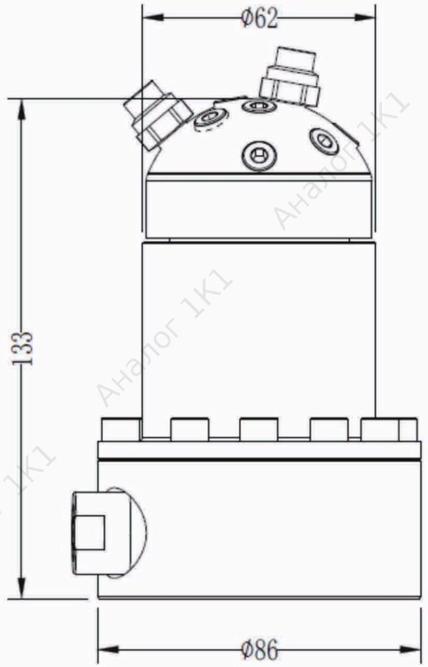
Optimized structure design enables the water jet to produce greater impact.
Excellent seal design, ensure a low leakage of 1% of water, thus more economical cleaning fluid.



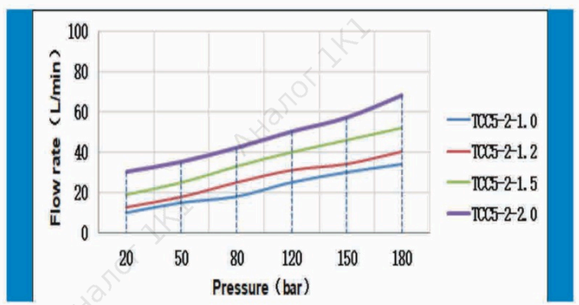
Technical data

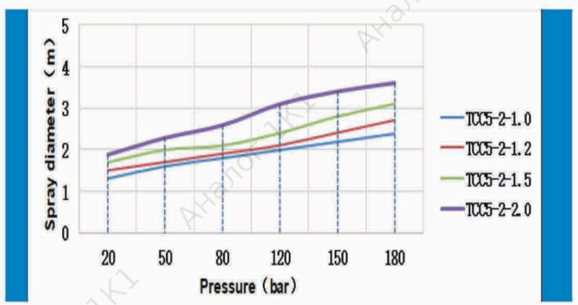
Material	Stainless steel/aluminum alloy
Operating pressure	10-150 bar
Recommended pressure	20-150 bar
Max. pressure	180 bar
Max. spray diameter	1-3.5m
Spray angle	120°
Max. working temperature	95℃
Max. ambient temperature	120℃
Rotation Speed	Adjustable
Connection	3/8"BSPP (Other connection can be customized)
Weight	3 KG
Min. tank openings	127MM
Installation	Can be installed in any direction





Performance curve





Ordering info: TCC5- 2 - 1.0 - 120° - 304SS - 3/8"BSPP
Model- Nozzle qty Nozzle orifice- Spray angle - Material - Connection

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Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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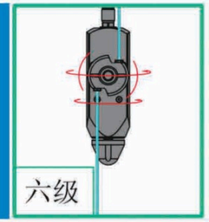


HIGH PRESSURE CLEANING HEAD

CC5 high pressure cleaning head



Application

KLY CC5 cleaning head is suitable for reactor, chemical industry, chemistry, environmental protection, automobile, raw material, coating industry and occasions that require pressure cleaning.

Working principle

KLY CC5 cleaning head is driven by cleaning fluid, impeller drives the internal deceleration mechanism, and the transmission mechanism runs according to the set trajectory to form a 270° spray pattern.

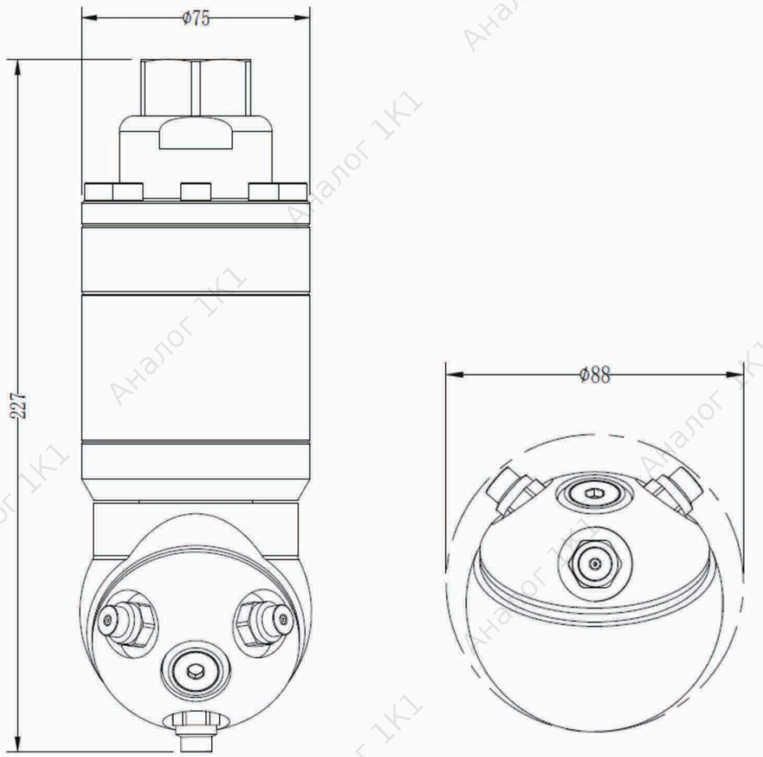
Design feature

Optimized structure design makes the water jet with greater impact force.
Excellent sealing design, leakage of water is less than 3%, thereby saving cleaning fluid.

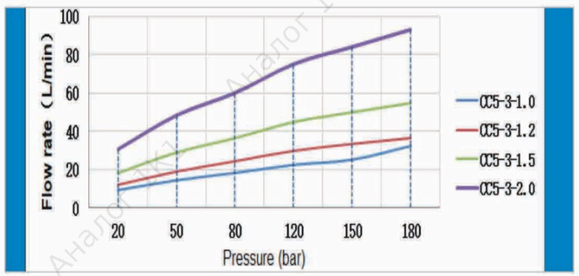
Technical data

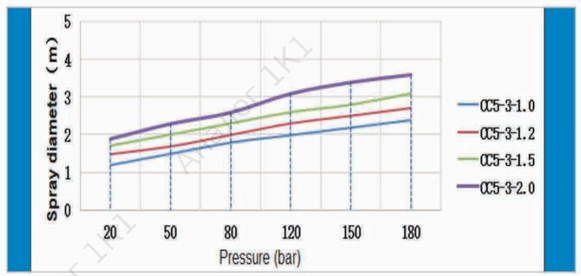
Material	304SS,aluminum
Operating pressure	10-150 bar
Recommended pressure	50-150 bar
Max. pressure	150 bar
Max. spray diameter	1-3.5m
Spray angle	270°
working temperature	95℃
Maximum ambient temperature	120℃
Connection	1/2"BSPP （NPT thread on request)
Weight	3 KG
Min. tank openings	88MM
Installation	Operatin in every direction is possible

Ordering info：CC5 - 3 - 1.0 - 270° - 304SS - 1/2"BSPP
Model- Nozzle qty- Nozzle Orifice - spray angle- Material- Connection



Performance curve





Ordering info：CC5 - 3 - 1.0 - 270° - 304SS - 1/2"BSPP
Model- Nozzle qty- Nozzle Orifice - spray angle- Material- Connection

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Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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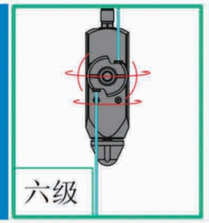


HIGH PRESSURE CLEANING HEAD

MP200 High pressure cleaning head

Application

KLY MP200 high-pressure three-dimensional rotary cleaner is suitable for cleaning of polysilicon bell jars, reaction kettles, mixers, IBC barrels, tank trucks, mixers, fermentation tanks, feeding boxes, and occasions that require high-pressure cleaning, such as pharmaceuticals, chemical , marince, coating industry, etc

Working principle

The washer drives the impeller through cleaning liquid, and impeller drives the internal deceleration mechanism. Transmission mechanism runs according to the set trajectory to form a 360-degree spray pattern to achieve a complete tank cover.

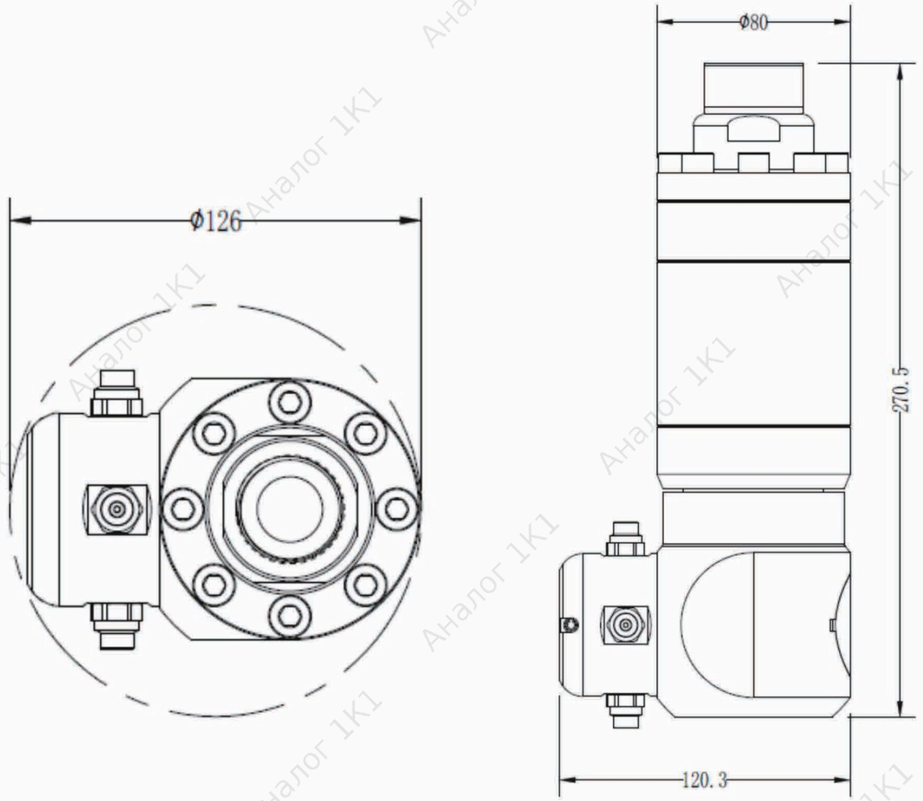
Design feature

Optimized structural design makes the water jet with greater impact.
Excellent sealing design,1% of leakage water, so as to save more cleaning fluid.
Powerful high-pressure water jet can efficiently clean stubborn dirt.
There is no need for people to enter the restricted space, which greatly reduces
labor intensity, improves the working environment, and avoids safety hazards.

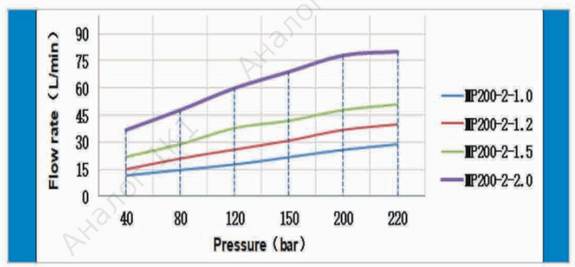


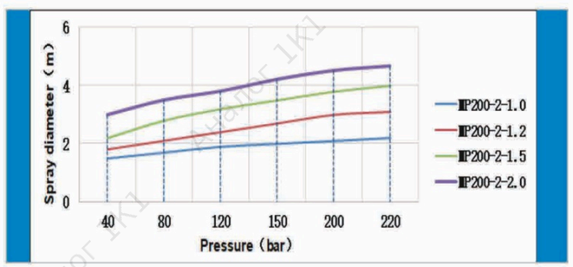
Technical data

Material	316LSS
Operating pressure	20-220 bar
Recommended pressure	40-200 bar
Max. pressure	220 bar
Max. spray diameter	4m
Spray angle	360°
Max. working temperature	95℃
Max. ambient temperature	120℃
Cleaning cycle time	6-12 minutes (The reduction ratio can be changed)
Connection	1"BSPP (Other connections can be customized)
Weight	9 KG
Min. tank openings	126 mm
Installation	Can be installed in any direction



Performance curve





Ordering info: MP200- 2 - 2.0 - 360° - 316LSS - 1" BSPP
Model - qty of nozzle - Orifice - Angle - Material - Connection

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ООО Аналог 1К1
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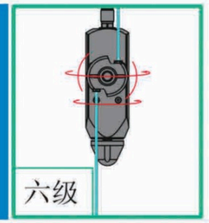
Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
ИНН/КПП: 6700039822/670001001
р/с 40702810601130004833
в АО «АЛЬФА-БАНК»



HIGH PRESSURE CLEANING HEAD

HP500 ultra-high pressure 3D cleaning machine

Application

KLY HP500 3D rotary cleaner is suitable for cleaning vessels, reactors, autoclaves and tanks, in chemical industry,petrochemical industry, synthetic fiber industry, paper-making and food industry, coating industry and other occasions requiring ultra high pressure cleaning.
The HP500 can effectively clean boiler sediment,coke, polymer, PVC resin or residual scale that hard to remove.
It is designed to remove the toughest residues from large tanks in numerous industries and is customizable in a wide variety of ways.



Working principle

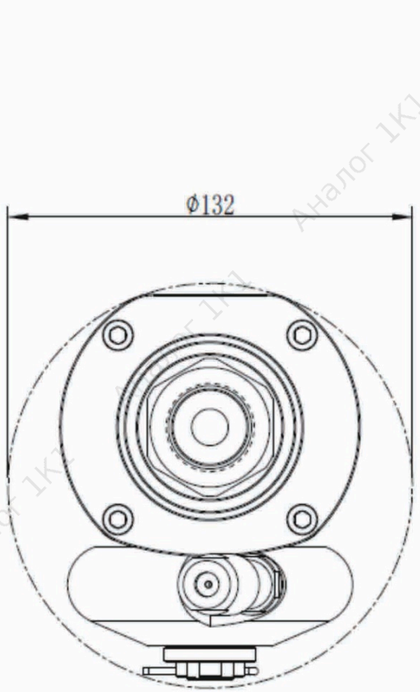
The washer drives the transmission mechanism to rotate through the reaction force, regulates the rotation speed through the reducer, and realizes the revolution and rotation through the transmission mechanism according to the set trajectory, thus forming a 360-degree injection mode to achieve complete tank coverage.

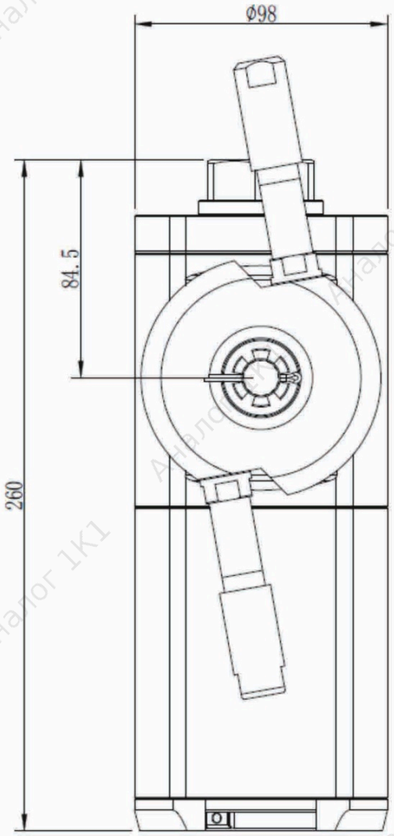
Design feature

Dynamic balance design is adopted to keep the smooth rotation at high pressure
Stepless speed control and cleaning cycle, longer service life
Unique nozzle structure design enables the high-pressure water jet with greater impact force.
Powerful high pressure water jet can efficiently clean the stubborn dirt.
No need to enter the restricted space, greatly reduce labor intensity, and avoid safety hazards.

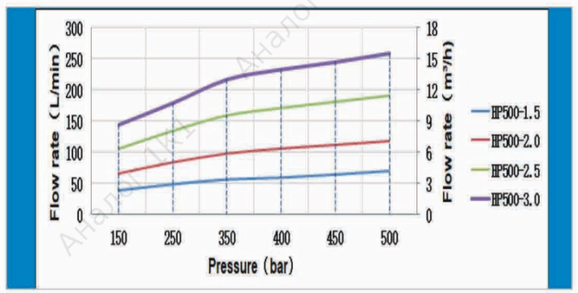
Technical data

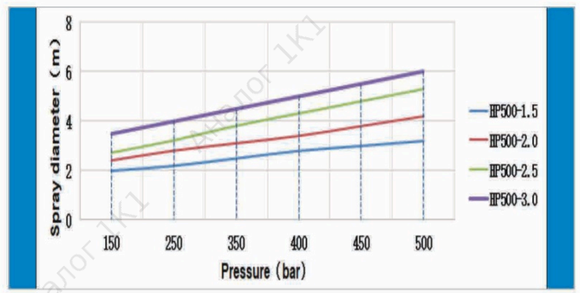
Material	304SS,PEEK,EPDM
Operating pressure	100-500 bar
Recommended pressure	150-500 bar
Max. pressure	500 bar
Max. spray diameter	1-6m
Spray angle	360°
Max. working temperature	95℃
Max. ambient temperature	120℃
Rotation Speed	Adjustable
Connection	3/4"BSPP (NPT thread on requst or customized)
Weight	14.5 kg
Min. tank openings	132 mm
Installation	Can be installed in any direction





Performance curve





Ordering info: HP500 - 2.0 - 360° - 304SS - 3/4"BSPP
Model- Nozzle orifice- Spray angle - Material - Connection

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ООО Аналог 1К1
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analog1k1@yandex.ru
Иван Рожков
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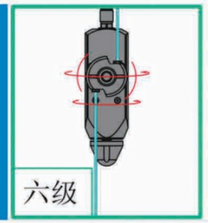


HIGH PRESSURE CLEANING HEAD

HP 1000 high pressure rotary cleaner

Application

KLY HP500 3D rotary cleaner is suitable for cleaning vessels, reactors, autoclaves and tanks, in chemical industry,petrochemical industry, synthetic fiber industry, paper-making and food industry, coating industry and other occasions requiring ultra high pressure cleaning.
The HP500 can effectively clean boiler sediment,coke, polymer, PVC resin or residual scale that hard to remove.
It is designed to remove the toughest residues from large tanks in numerous industries and is customizable in a wide variety of ways.

Working principle

The washer drives the transmission mechanism to rotate through the reaction force, regulates the rotation speed through the reducer, and realizes the revolution and rotation through the transmission mechanism according to the set trajectory, thus forming a 360-degree injection mode to achieve complete tank coverage.

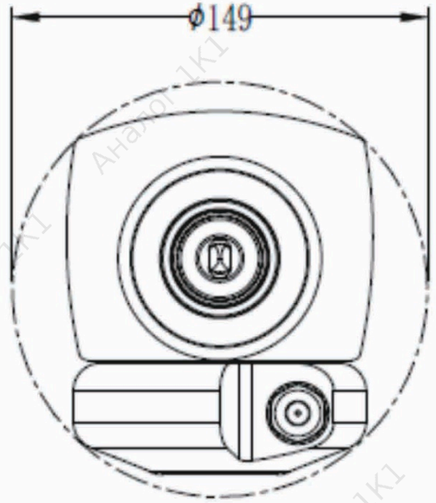
Design feature

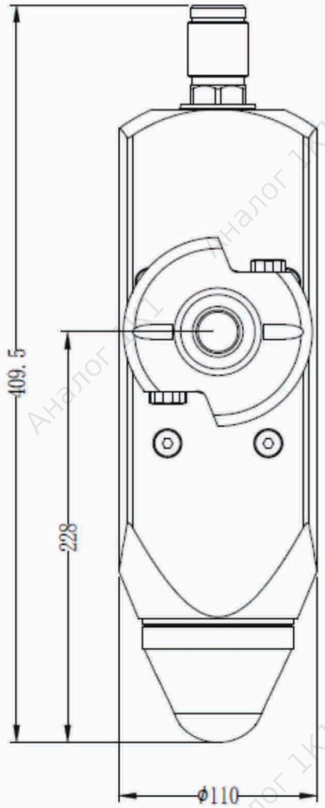
1. Dynamic balance design is adopted to keep the rotation smooth and swing under high pressure.
2. Stepless speed control and cleaning cycle, long service life
3. Unique nozzle structure design enables the high-pressure water jet with greater impact force.
4. Powerful high pressure water jet can efficiently clean the stubborn dirt.
5. No need to enter the restricted space, greatly reduce labor intensity, improve the working environment,avoid safety hazards.



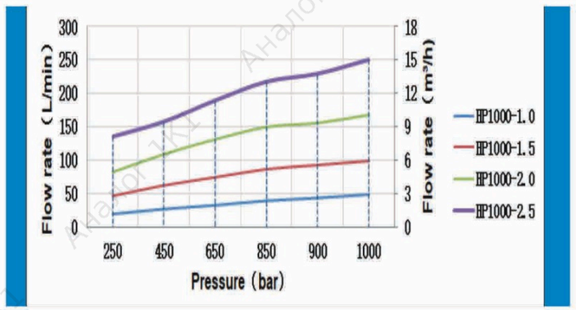
Technical data

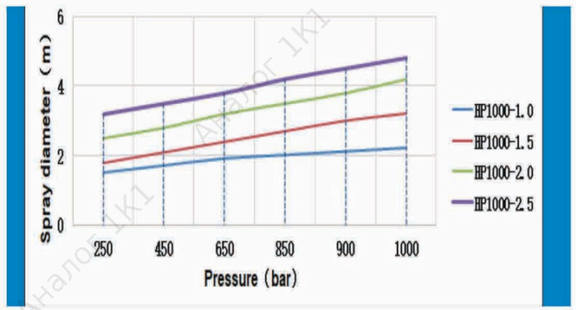
Material	304SS,PEEK,EPDM
Operating pressure	250-1200 bar
Recommended pressure	300-800 bar
Max. pressure	1200 bar
Max. spray diameter	1-5m
Spray angle	360°
Max. working temperature	95℃
Max. ambient temperature	120℃
Cleaning cycle time	6-12 minutes
Connection	1"BSPP (M24*1.5 or 3/4")
Weight	18.5 kg
Min. tank openings	149 mm
Installation	Can be installed in any direction





Performance curve





Ordering info: HP1000- 2 - 1.0 - 360° - 304SS - 1" BSPP
Model - qty of nozzle - Orifice - Angle - Material - Connection

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ООО Аналог 1К1
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analog1k1@yandex.ru
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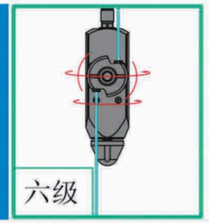


HIGH PRESSURE CLEANING HEAD

QHP5 high pressure 2D cleaner

Application

KLY 2D pneumatic high pressure tank cleaning nozzle is suitable for flammable and explosive cleaning occasions. Such as fuel ethanol, chemical industry, and industries that require high-impact cleaning.

Working principle

The series of cleaners are driven by an external pneumatic motor to rotate the cleaning head,and the cleaning head can be installed at different angles to achieve a maximum of 270 degrees of cleaning which can not only meet user requirements but also meet cleaning requirements.Fan or water jet mode optional.

Design feature

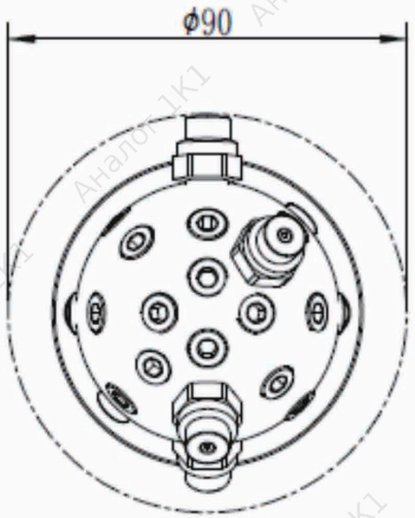
High mechanical energy: jet flow is produced by combining pressure and flow, which can achieve a large cleaning distance and range.
The kinetic energy of flushing water generated by pressurized high-pressure pump can effectively remove the residue inside the container.
Low leakage: With only 1% of the leakage, 99% of the cleaning fluid can be used for cleaning, enabling the tank washer to maximize the mechanical benefits, greatly reducing the cleaning time and temperature dependence.
Various possible spray patterns using different nozzle arrangements on the spray head.
All parts of the same type are interchangeable and easy maintenance, to ensure an efficient cleaning.

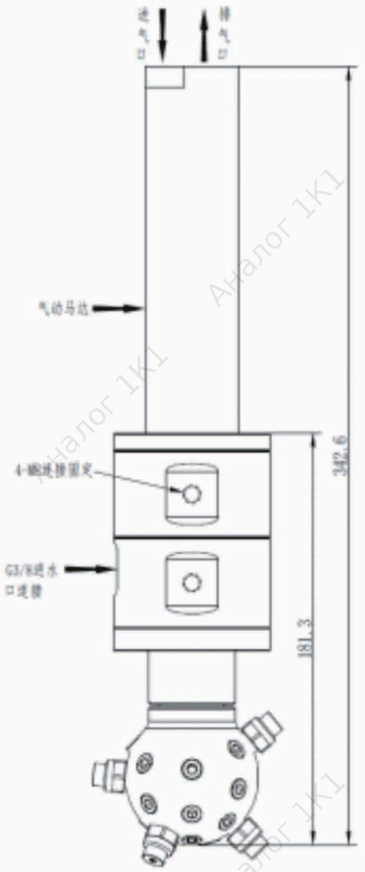


(Length of lance can be customized)

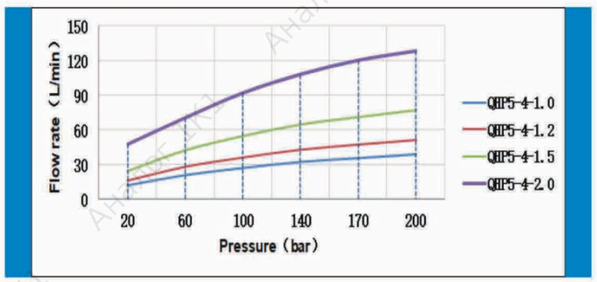
Technical data

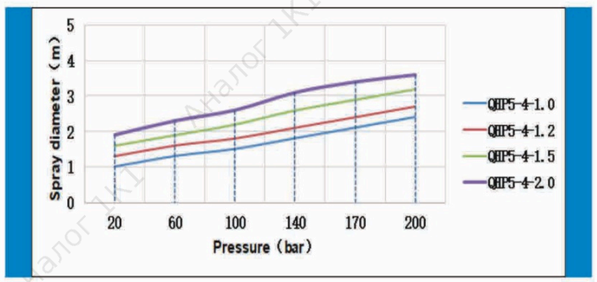
Material	304SS,PEEK,EPDM
Operating pressure	10-200 bar
Recommended pressure	20-150 bar
Max. pressure	200 bar
Max. spray diameter	1-3.5m
Spray angle	270° (spray angle can be customized)
Max. working temperature	95℃
Max. ambient temperature	120℃
Water inlet	3/8"BSPP (Other connection can be customized)
Tank connection	flange or thread
Weight	3.5-12 kg
Min. tank openings	90MM
Installation	Can be installed in any direction





Performance curve





Ordering info.: QHP5- 4 - 2.0 - 270° - 304SS - 3/8"BSPP
Model- Nozzle qty Nozzle orifice- Spray angle - Material - Connection

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Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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р/с 40702810601130004833
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3D ROTARY HIGH PRESSURE CLEANER FOR IBC TOTES

Application

KLY 3D rotary cleaner is suitable for cleaning of IBC totes.
During the cleaning process,3D rotary cleaner not only meets the owner's cleaning requirements, cleans and cuts the bottom, but also saves resource consumption.

Working principle

IBCD cleaner is driven by an external motor to drive the cleaning head to rotate, and the gear mechanism runs according to the set trajectory to realize revolution and rotation, thereby realizing 360° impact indexed coverage for the cleaning of the inside of tanks and process vessels.

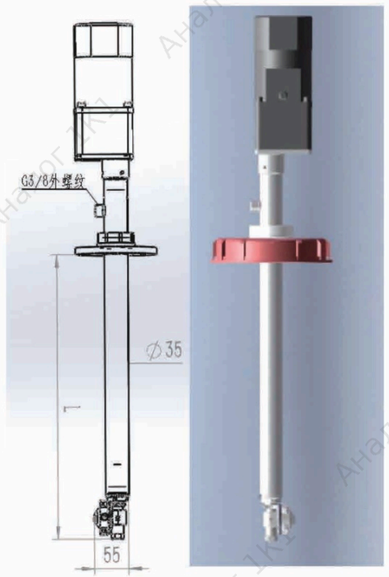
Design feature

Great mechanical action. Combining pressure and flow to produce a powerful impact jet, which has several times the impact of other products, and can achieve a larger cleaning distance and range. The kinetic energy of the flushing water flow generated by the pressure of the high-pressure pump can effectively remove the residue on the container wall. Positive impact force from the vertical direction helps to penetrate dirt. Ttangential force helps to remove residue on the container wall.

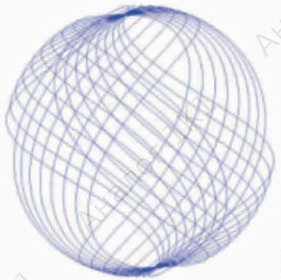
Low leakage. 3% of leakage and 97% of cleaning fluid is used for cleaning, so that the three-dimensional rotary tank washer can maximize the benefits of mechanical force and greatly reduce the dependence on time, chemical reaction and temperature. IBC three-dimensional rotary tank washing device saves water, time and energy, only 20%-50% of other products.

Model configuration is standardized. All parts are precisely processed, the parts of the same model are highly interchangeable, and maintenance is simple and convenient to ensure efficient cleaning.

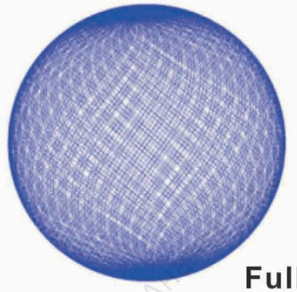
Realize three-dimensional cleaning. It has accurate, repeatable, reliable and tight spray trajectory, directional impact, 360° spherical full coverage, and 3-5 minutes cleaning time reduces tank downtime; reduces resource consumption and correspondingly reduces sewage treatment costs; cleaning and cutting the bottom, Reducing the use of chemicals can reduce environmental pollution.



Simulation of cleaning process:



First Cycle



Full pattern

Technical data

Material	316LSS,304SS,EPDM
Operating pressure	2-350 bar
Recommended pressure	10-300 bar
Max. pressure	350 bar
Max. working temperature	Standard version 60°C ， high temperature version 120°C
Max. ambient temperature	Standard version 100°C ， high temperature version 200°C
Spray angle	360°
Installation	Operation in every direction is possible
Nozzle orifice	1,2,3mm (1.2,1.5,1.8mm can be customized)
Max. spray diameter	1-3m
Length of lance	500,1000mm
Parameters of motor	Voltage DC24V、Power 60W(optional explosion-proof motor, optional speed motor)
Connection	thread or flange
Water inlet	3/8" BSPP (other connection on request)
Cleaning cycle time	4-6 minutes
Weight	7.5-12kg

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Тел. +7-951-711-91-19
analog1k1@yandex.ru
Иван Рожков
Смоленск, ул. Губенко 26, оф. 306
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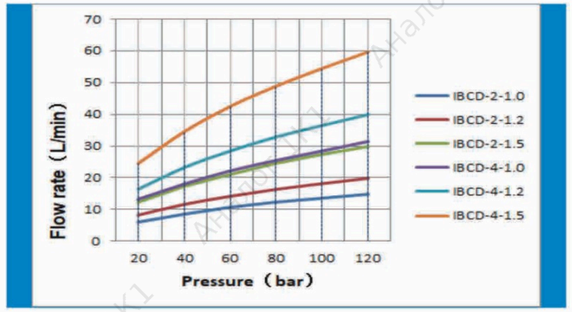
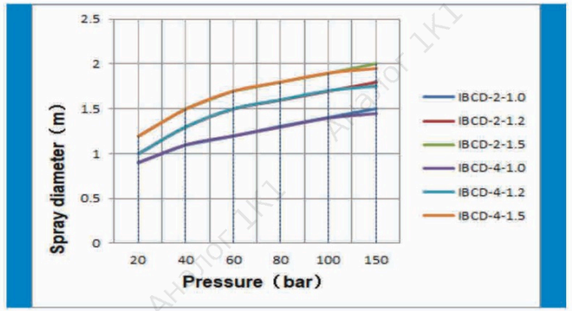
Performance curve

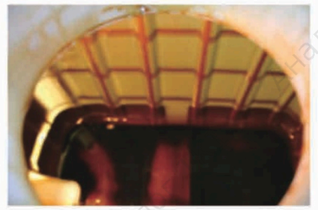




Installation



Cleaning effect



Before cleaning



After cleaning

Cleaning system





Ordering info: IBCD - 4 1.0 - 360° - 316LSS - 3/8" BSPP
Model - Nozzle qty - orifice - spray angle - Material- Water inlet

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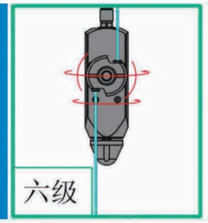

HIGH PRESSURE CLEANING HEAD

Custom high-pressure two-dimensional cleaning head





Parameters can be consulted separately
Our company undertakes the repair and maintenance of various imported brand cleaning gun heads.

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