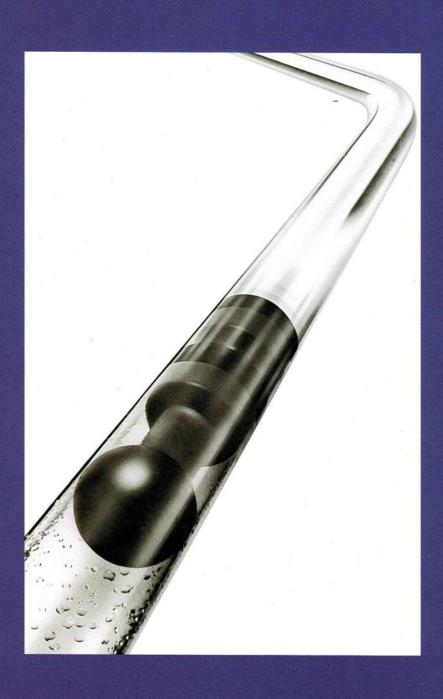
Conserve Resources and the Environment Clean Express



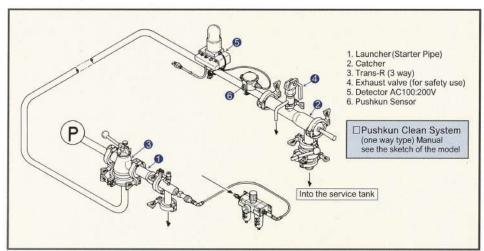
Cleaning System for Sanitary Pipelines

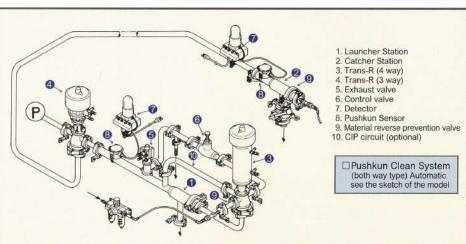
Raw material extrusion & cleaning system reducing manufacturing costs and satisfying strict draining regulations.

Highly Efficient Products full of Originality for a wide range of needs (ORIGINAL ENGINEERING)



The transfer of foodstuffs or raw materials in sanitary facilities requires solutions to a number of technical problems. These include; damage to the packing, mixing germs of various sorts, collection of residual raw materials, reducing cleaning time, saving cleaning water/lotion, reducing the burden on the drainage facilities and the procedure of connecting to the existing lines. OEG has recently developed a complete range of products applying to these sanitary pipelines to meet a variety of needs. Pushkun Clean System, our raw material extrusion & cleaning system including other unique and original accessories, are now used extensively in food/chemical industries





How to Use the System

- Installation of the One Way Type 1 . Install the Trans-R valve to the outlet of the pump
- 2. Install the Catcher Pipe to where the materials will the Catcher Pipe of where the indictions have be transferred. There are different ways to install the Catcher Pipe, but the basic installation model is shown by the sketch on the left.
- 3. If using the Pushkun Cleaning System with Pushkun Sensor near the Catcher Pipe. In the left Pushkun Sensor near the Catcher Pipe. In the is sketch the Pushkun Sensor is placed to the pipeline, but is also able to be placed to whereve is easier to recognize the buzzer sounds or the

Use of the One Way Type

- switch the Trans-R valve to the Starter Pipe
- Launch the Pushkun, previously inserted into the Starter Pipe, into the pipeline by compressed air. The air pressure should be set at 0.5 to 1 kg/cm above the pressure applied to the usual pipeline
- the more it increases in speed. The speed of the Pushkun can be adjusted by a raw material flow rate adjustment valve on the Catcher Pipe.
- 5. When the Pushkun arrives at the Catcher Pipe. the detector responds. At this point, almost 100% of the raw materials are pushed out of the pipeline and into the service tank.
- 6. Discharge any air remained in the pipeline by opening the Exhaust valve, (the exhaust valve is not necessary if the Catcher Pipe does not include O-ring since all air inside the pipeline will be released to the service tank.)
- 7. Remove the Pushkun from the Catcher Pipe After washing the Pushkun insert it into the Starter
- 8. Clean inside the pipeline.(the sketch to the left does not include a C.I.P. line.)
- In the both way type shown in the sketch on the comes back into the Starter Pipe. Also, with this both way type system, the Pushkun itself can be cleaned at the same time that the inside of the

USHKUN

The front guide ball on the Pushkun means that the Pushkun itself runs smoothly through the

pipeline, even through elbow or U-bent parts and

valves, after it is launched from the Starter Pipe by air or water pressure. Sealed-advance (the wing on the Pushkun) is stretched by air or

TARTERPIPE

or pressure. It is slightly larger than the ellne's inner diameter for easier Pushkun rtion, and suitable drain pipe and couple pressure source, as well as for C.I.P. washing.

XA Starter Pipe with jacket (optional) and

water pressure and results in the pipeline sealed up with Pushkun while it runs through it. This allows it collect all residual raw materials inside the pipeline while it also prevents air or water pressure from leaking into the raw material When using a Pushkun Clean System that has superior sealing property, you can collect the material A remaining in the pipeline by the pressure of the material B. Then the material B is ready to be processed in the pipeline when the Pushkun completed its work.

and should be selected according to the type of raw material handled in the pipeline. match the pipeline's inner diameter. *Either of Pushkun with/without detectable



T RANS-R

into the valve cone, has been specially developed by OEG to realize ideal fluid flow. It is also highly resistant to heat or steam, which can also highly resistant to heat or steam, which can cause seizure or gailling. Because it is designed with an elbow-shaped pipe inside the valve, the Trans-R valve can prevent loss of pressure when moving the Pushkum and the row material (especially a high-viscosity raw material). It is an important accessory to enhance the effectiveness of the Pushkun's performance, and is recommended for use as a bypass in locations where the Pushkun can not run through. A manual type, with LS(optional) and an automatic type are available, and it enables to switch a single flow in as many as four directions; also only single flow out of these four can be selected.

and washed without any other tools. **Trans-R with jacket (optional) and various



ATCHERPIPE The Catcher Pipe is a place to receive the

Pushkun and also allows the raw material to flow through. With the T type, the Pushkun is caught in a basket inside the catcher pipe, and it can be removed together with the basket. With the C type, the Catcher Pipe is detached from the line to remove the Pushkun. With either type, the raw material adheres to the Pushkun, so it is necessary to wash the Pushkun before reusing

After the Pushkun reaches the Catcher Pipe, any air remaining in the pipelines should be immediately discharged. If the air is still remained inside when removing the Pushkun from the Catcher Pipe, it may cause

ETECTOR

The detector use a high-sensitivity sensor to The detection use a ingressionary series indicates the anginet built into the Pushkun. This indicates the presence of the Pushkun by turning on the contact point output (LED light).

The detector can be mounted on the pipeline. Output from the output terminal is relay output Depending on the type of line, either an

%Power supply such as AC-100V, AC-220V are automated by the output terminal.

When using the detector with patilite which indicates the Pushkun's arrival, the output terminal is AC-100V~AC-200V.

OWhen using the detector without patiite, the dry contact point is applied to the output

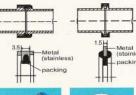






METALGUARD

A Metal Guard, with a stainless steel outer ring that holds the packing securely, completely eliminates the problems of wear and displacement due to pressure. By forming a seal that is extremely resistant to high pressure, it enhances durability and prevents the entry of it enhances durability and prevents the entry of any foreign matter. It is also easy to wash so that is always kept away from germs of any sorts, by using the Metal Guard, the loss of operating time or raw material due to packing related problems is reduced, and the safety of the problems is reduced, and the safety of the transfer equipment can be enhanced. The material of the packing can be chosen and replaced to best suit each application, and can be also used for ferrule or IDF union (H, L bype) parts of the present sanitary piping facility.









Attention

The One Way type is suitable for

Discilities that rarely need to transfer raw materials

☐facilities that have only short pipelines.



In some cases, however, both way type may be also suitable depending on the nature of the materials

The Both Way Type is suitable for

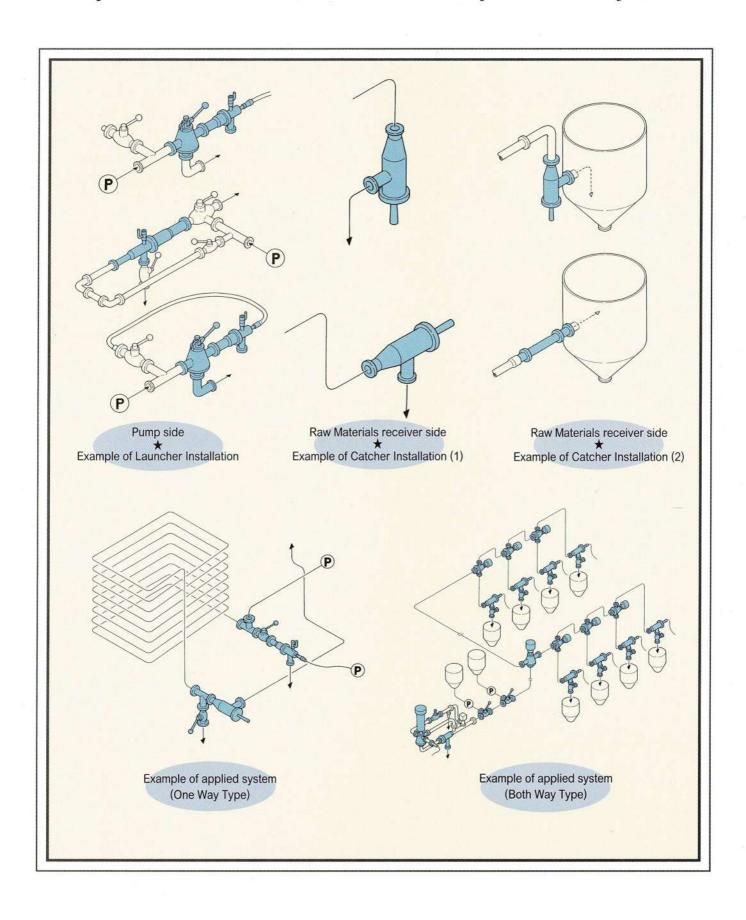
□facilities that frequently need to transfer raw

□facilities that use one line for several kinds of

facilities that have long pipelines. facilities that wish to reduce the time on removing

and washing the Pushkun Stacilities that adopt an automatic switch controlled

guaranteed by our confirmed experience and rich developmental power



MAJOR CLIENTS

In the World

Indag GmbH Betries KG (Germany) Lee Kum Kee Co., Ltd. (Hong Kong) PANAMCO Administracion (AZTECA), SA de CV (Mexico)

Spal Industria Brasileira de Bebidas S/A (Brasil)

Refrescos Ipiranga S.A. (Brasil) Rudolf Wild International (Germany) Thai Pure Drinks Ltd. (Thailand)

In Japan

Asahi Denka Kogyo K.K. Ajinomoto Co., Inc. Ezai Glico Co., Ltd. Coca-Cola Japan Co., Ltd. Dai Nippon Printing Co., Ltd. Fuji Oil Company Fuji Photo film Co., Ltd. Hitachi, Ltd. House Food Corporation Kao Corporation Kikkoman Corp. Kirin Brewery Company, Ltd. Lion Corporation Mandom Corporation Meiji Milk Products Co., Ltd. Meiji Seika Kaisha Ltd. Mitsubishi Heavy Industries, Ltd. Mitsubishi Oil Co., Ltd. Morinaga & Co., Ltd. Nippon Delmonte Corporation Nitto Denko Corporation Oriental Yeast Co., Ltd. Otsuka Pharmaceutical Company Q.P. Corporation Riso Kagaku Corporation Royal Co., Ltd. Shiseido Co., Ltd. Snow Brand Milk Products Corporation Sonton Foods Industries Ltd. Sunstar Inc. Takeda Chemical Industries, Ltd. TDK Corp., The Nissin Oil Mills Ltd. Tsumura & Co. Yakult Honsha Co., Ltd. Yamazaki Baking Co., Ltd.

(Alphabetical List)



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