

#### Application:

Double ball foot valves and double ball non-return check valves are non-return check valves according to DIN EN 12514-2 for oil pipes according to DIN 4755.

The valves work on the gravity principle.

#### Description:

Air and gas emissions may be expelled from the oil by an underlying pressure in the suction pipe, for instance if the tank is installed at a lower level. The emissions gather as air bubbles and an equivalent quantity of oil flows back to the tank. If the air bubbles reach the burner, they may cause a malfunction during restart.

Non-return check valves allow the fluid to flow in one direction only. They can be installed in oil pipes and prevent the oil from flowing back to the tank and the oil pipe from being drained off. The non-return check valve is often installed as a foot valve in the oil tank.

A non-return check valve can also be part of an oil draining device, such as the oil draining facility "Flexo-Bloc".

To avoid an inadmissible pressure increase caused by a warming up of the heating oil, for instance if the oil pipe is exposed to sunlight, a pressure compensation device, e.g. "Olex", item no. 2107003, has to be installed if required.

#### Double ball foot valve:

DN	Connection	Item no.:
10	Rp 3/8	2030003
15	Rp 1/2	2030004
20	Rp 3/4	2030006
25	Rp 1	2030008

#### Double ball non-return check valve:

DN	Connection	Item no.:
10	Rp 3/8	2031103
15	Rp 1/2	2031104

#### Technical data:

Connection: Female thread Rp according to DIN EN 10266-1

Medium: Light heating oil on mineral oil basis, e.g. EL type of heating oil according to DIN 51603-1. EL type of heating oil A Bio 20 according to DIN SPEC V 51603-6 (see "Heating oils")

Material: Brass / stainless steel

Operating pressure: Use in suction systems

Max. test pressure: 10 bar

Tested according to EN 12514-2: TÜV Rheinland, no.: S 208 2016 T3

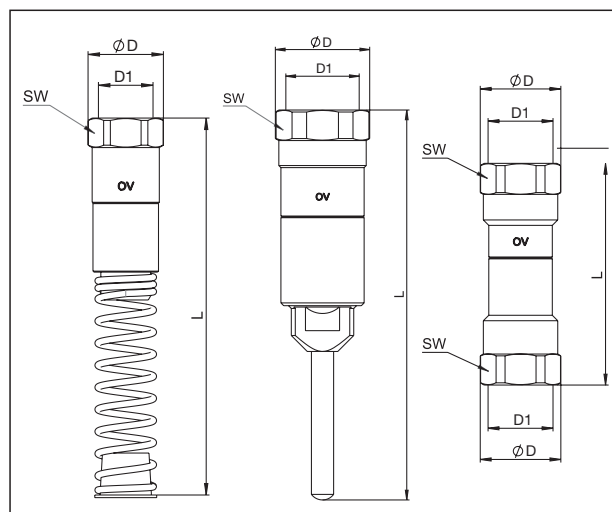
#### Installation:

The double ball foot valves and double ball non-return check valves have to be installed into the suction pipe in a vertical position with an upward direction of flow.

#### Heating:

The double ball foot valves and double ball non-return check valves can also be used for heating oils with "alternative additives" up to 20% (vegetable oils or FAME), e.g. EL type of heating oil A Bio 20 according to DIN SPEC 51603-6.

As the bodies are made of a copper alloy (brass), it is not recommended to use the valves as foot valves in oil tanks with alternative bio heating oils.

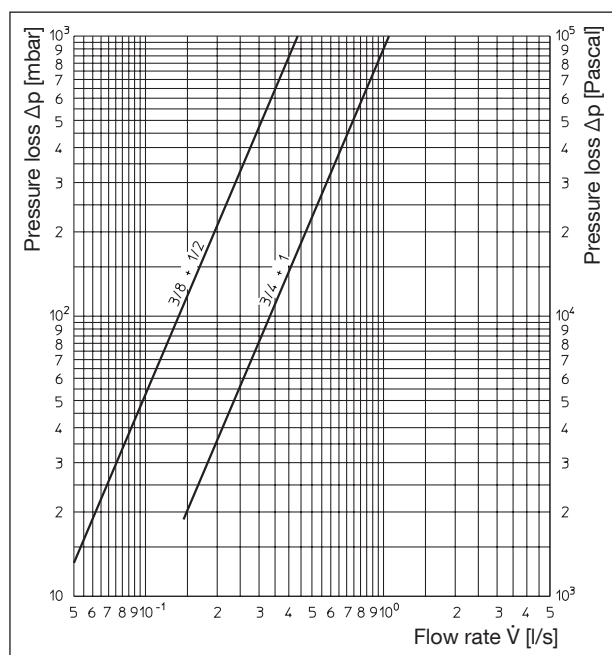


Item no.	DN	D <sub>1</sub>	D	~ L	Spanner size
2030003	10	Rp 3/8	23	113	21
2030004	15	Rp 1/2	26	118	24
2030006	20	Rp 3/4	34	141	32
2030008	25	Rp 1	40	144	38

Double ball foot valve

Item no.	DN	D <sub>1</sub>	D	L	Spanner size
2031103	10	Rp 3/8	23	62.5	21
2031104	15	Rp 1/2	26	70.5	24

Double ball non-return check valve



Flow chart

Subject to technical modifications without notice.

Product range 9  
ti 344-EN/10/MW  
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