

PS4 series: AFL-DR-PE-FC FLUSH DESIGN



Applications

In order to avoid contamination risk and make production lines easier to clean, potential fluid retention area must be minimised.

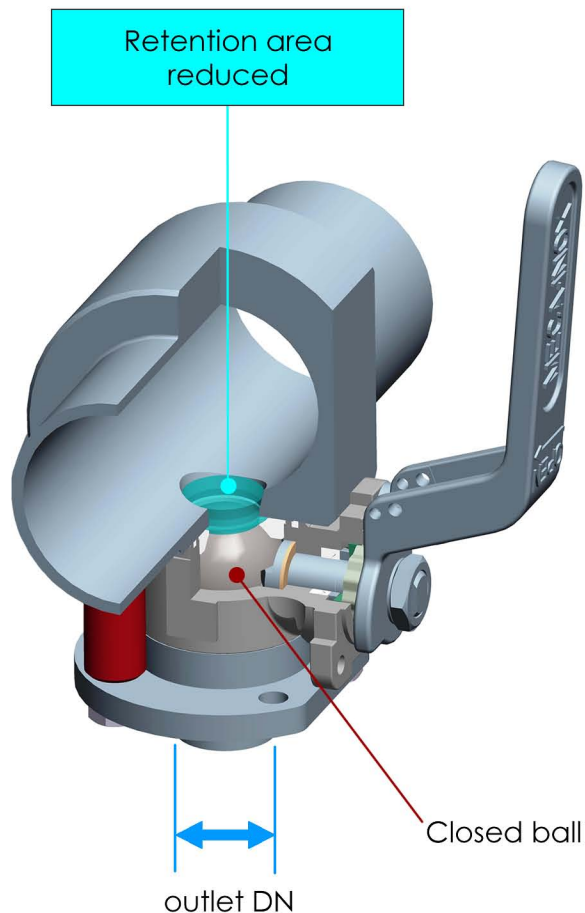
This requirement is often found in the food and pharmaceutical industries, in car manufacturing (paint) and in many chemical applications. MECA-INOX flush valves fulfill this need.

MECA-INOX Solution

PS4 AFL design minimizes the retention area while enabling easy adaptation to existing lines.

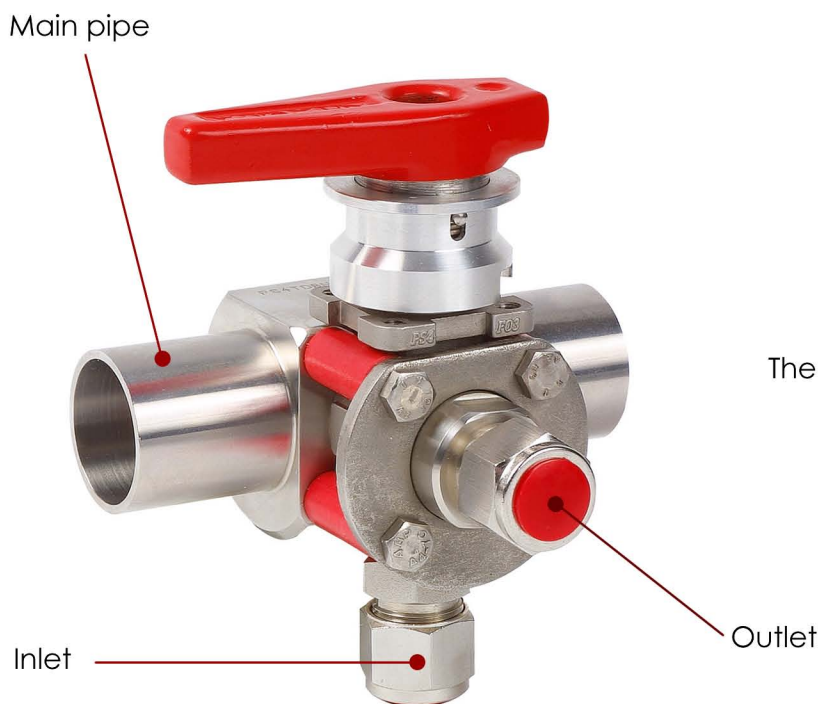
The retention area of a PS4 AFL valve is **12 times smaller** than a standard valve with clamp fitting and T pipping.

Example: the DN 15 retention area is only **0.7 ml**.



3 ways version

The **PS4 AFL 3 ways** is used for solvent input or any liquid for valve washing.



Applications

Various settings request valve with retention area reduced:

- Sampling from horizontal or vertical pipe
- Direct sampling to side wall tank
- Fluid diverting from tank or pipe
- Pipe draining

Flange weld



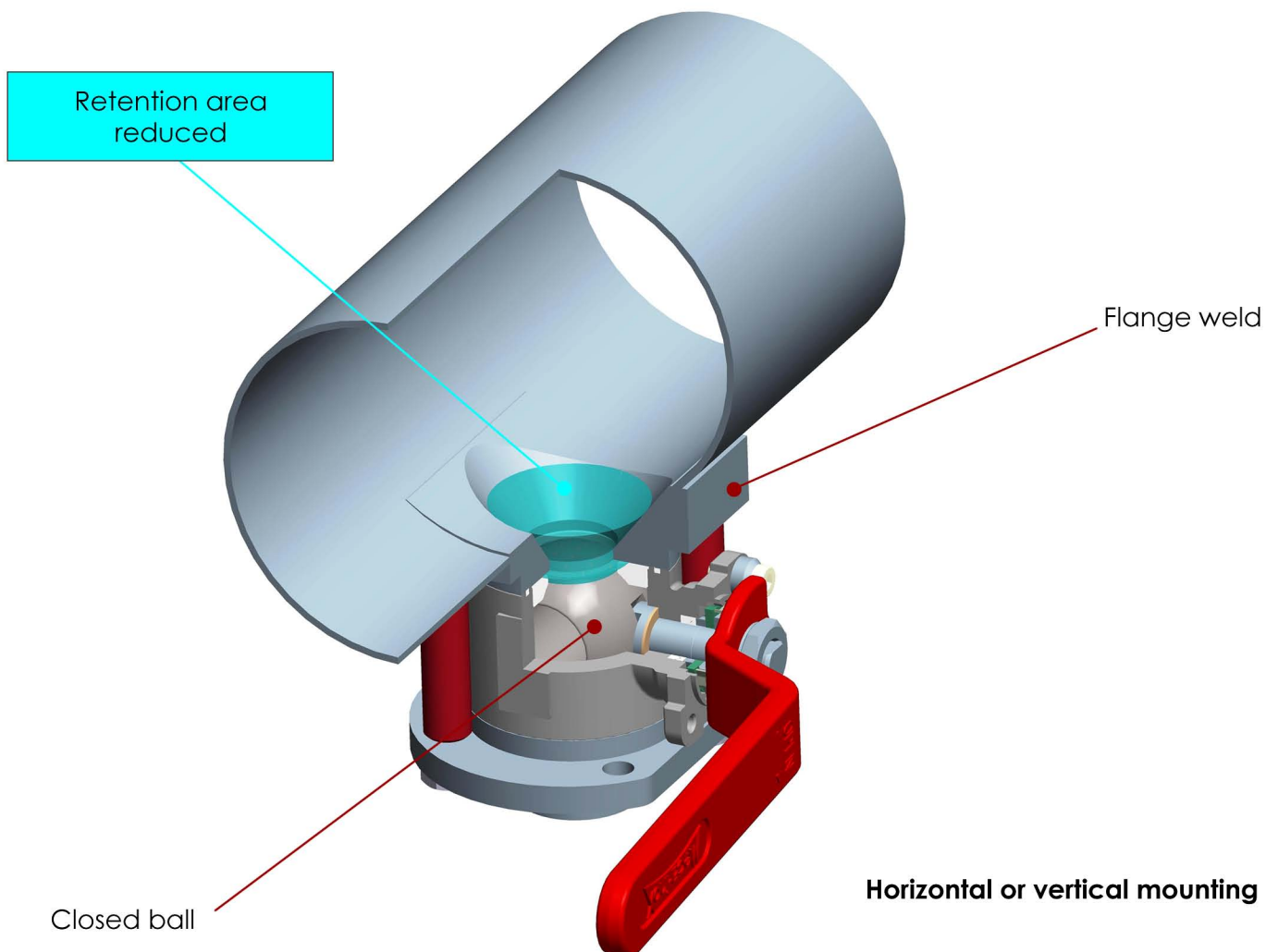
PS4 DR valve - DN 20

APP

MECA-INOX Solution

The **PS4 DR** design includes flange for direct pipe welding. It allows fitting to vertical or horizontal production lines from 80 to 400 mm.

The retention area of a PS4 DR valve **12 times smaller** than a standard valve with clamp fitting and T pipping. Example: the DN 25 retention area is only **6 ml**.



Retention area reduced

Flange weld

Closed ball

Horizontal or vertical mounting

Applications

The mixing operation request optimum fluid stirring. In a closed volume (chemical reactor, tank, ...) any "dead zone" will reduce mixing quality and will create heterogeneous fluid.

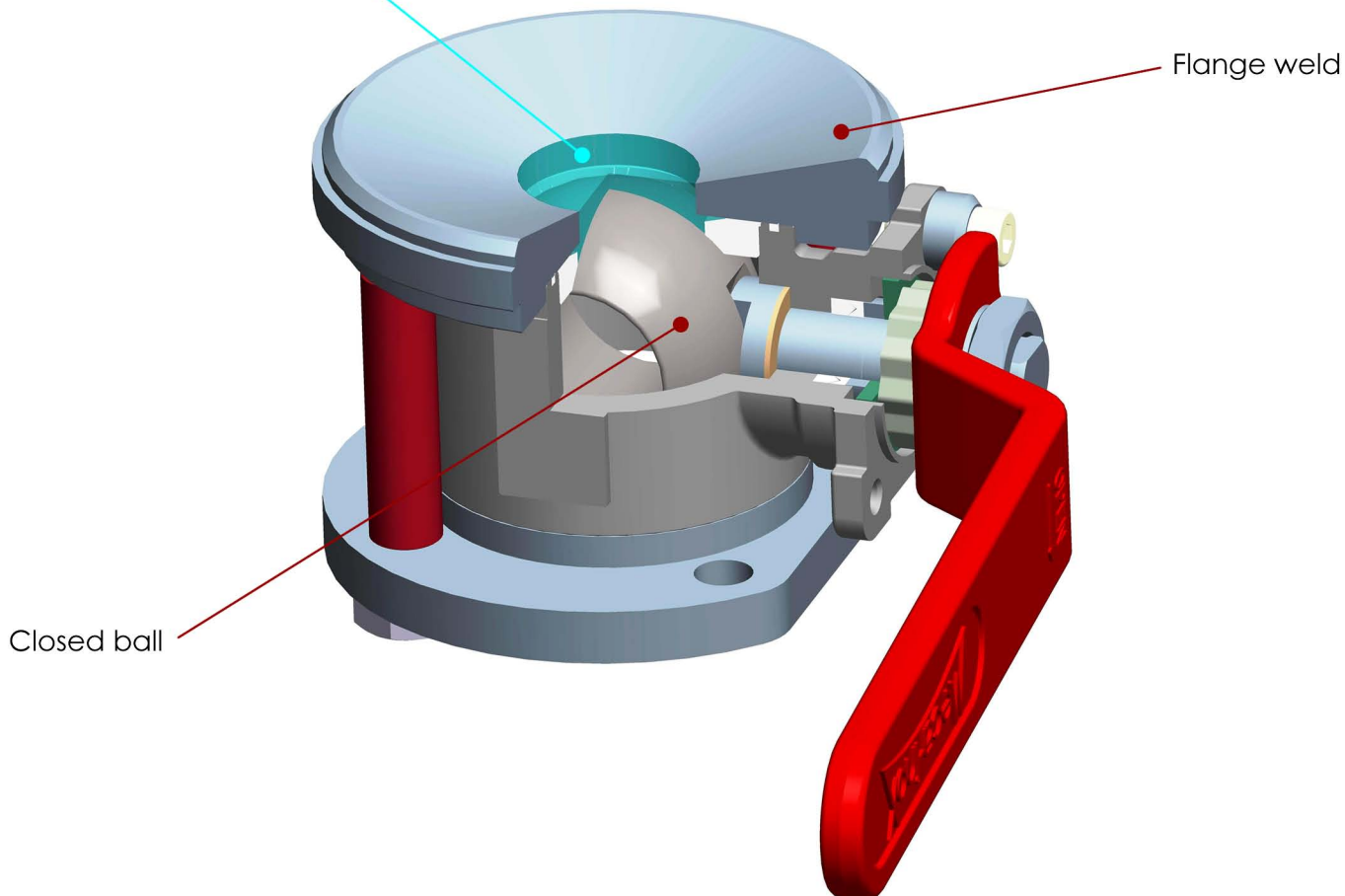
MECA-INOX Solution

The retention area of a PS4 FC valve is **10 times smaller** than a standard valve with tank bottom T tipping.

Example: the DN 32 retention area is only **4 ml**. Available size from DN 32 to 150.



Retention area reduced



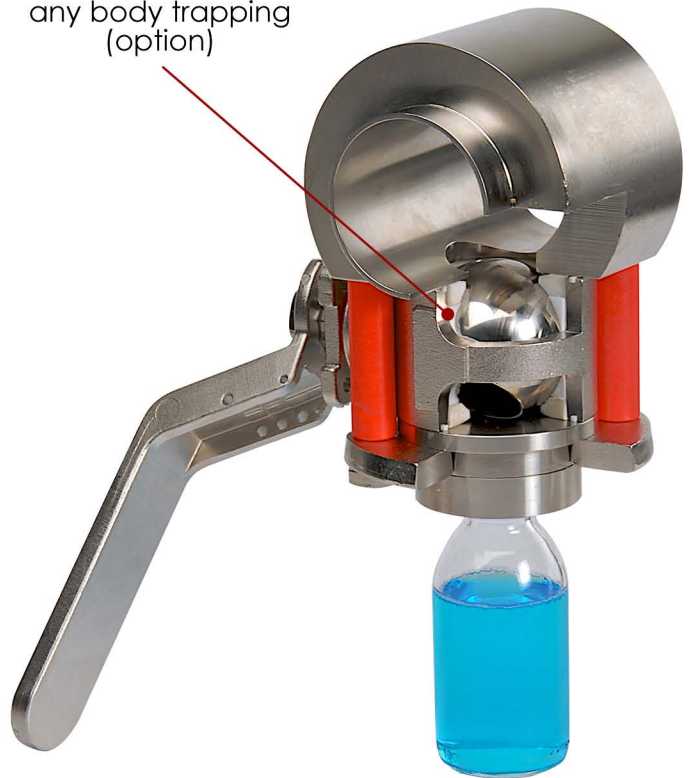
Applications

A perfect in line sampling must extract fresh and recent product from the pipe.

The laboratory analysis of any material "trapped" in "dead zone" will lead to wrong measure.

This result will effect process action and non-conforming material.

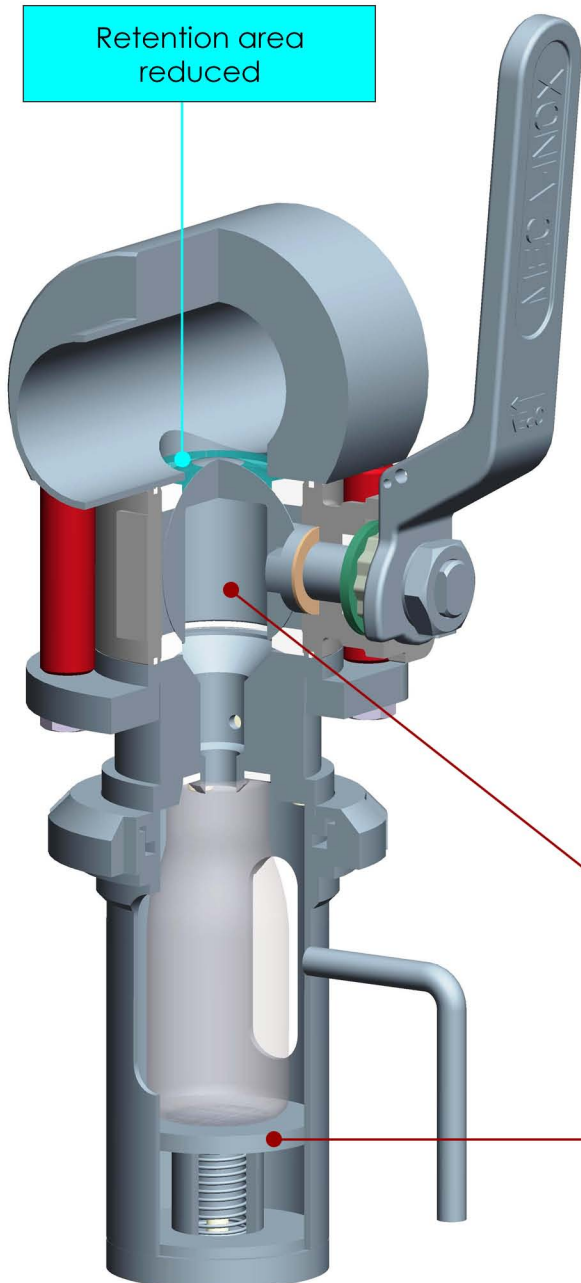
PTFE cavity fillers to avoid any body trapping (option)



PS4 PE valve - DN 40
Sampling volume 50 cc

APP

Retention area reduced



MECA-INOX Solution

The retention area of a **PS4 PE valve** is **10 times smaller** than a standard valve with clamp fitting and T pipping

Example: the DN 25 retention area is only **2 ml**.

Constant tightness between pressurised pipe and sampling outlet warranty fully safe operation.

Several sampling ball volume are available: 15, 30, 50 & 100 cc.

Closed sampling ball

Metal receiver for hazardous or hot fluids sampling (option)