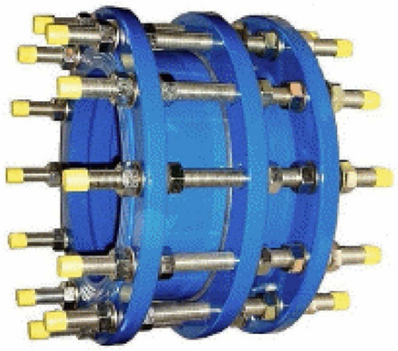
10/06/2026
**VCADJ21TPO575**

# Self restrained dismantling joint large stroke type steel PO DN700-2000



The self restrained dismantling joint Type PO for flanged valves allow the installation or removal of an equipment between two fixed flanges of a pipeline.
The sliding system can reach a 50 mm displacement to ease the removal of the equipment.
For this type of self restrained dismantling joint the locking of the valve to the pipeline is made by the tie bars and the gland.

## Range

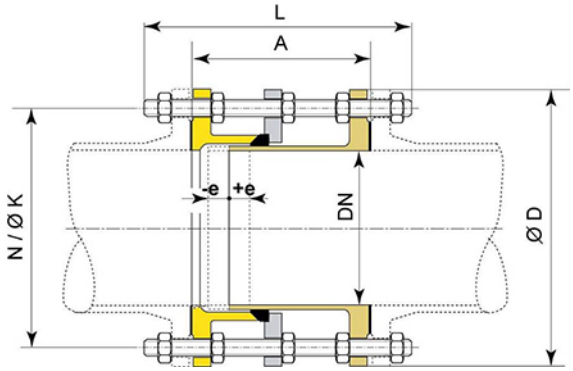
The self restrained dismantling joint Type PO exist in a range stretching from DN40 to 2000, for pressure PFA10, PFA16 and PFA25.

| DN (mm) | PN | A (mm) | ØD (mm) | ØK (mm) | N | M | L (mm) | +e (mm) | -e (mm) | Mass (kg) | References |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 10 | 260 | 895 | 840 | 24 | M27 | 450 | 25 | 25 | 256.00 | MDB70DABH |
| 700 | 16 | 300 | 910 | 840 | 24 | M33 | 510 | 20 | 25 | 366.00 | MDB70DAAH |
| 700 | 25 | 340 | 960 | 875 | 24 | M39 | 560 | 15 | 25 | 571.00 | MDB70DADH |
| 800 | 10 | 290 | 1015 | 950 | 24 | M30 | 480 | 25 | 25 | 352.00 | MDB80DABH |
| 800 | 16 | 320 | 1025 | 950 | 24 | M36 | 530 | 15 | 25 | 482.00 | MDB80DAAH |
| 800 | 25 | 360 | 1085 | 990 | 24 | M45 | 620 | 25 | 25 | 800.00 | MDB80DADH |
| 900 | 10 | 290 | 1115 | 1050 | 28 | M30 | 480 | 20 | 25 | 405.00 | MDB90DABH |
| 900 | 16 | 320 | 1125 | 1050 | 28 | M36 | 540 | 15 | 25 | 546.00 | MDB90DAAH |
| 900 | 25 | 380 | 1185 | 1090 | 28 | M45 | 635 | 15 | 25 | 920.00 | MDB90DADH |
| 1000 | 10 | 290 | 1230 | 1160 | 28 | M33 | 485 | 15 | 25 | 450.00 | MDC10DABH |
| 1000 | 16 | 340 | 1255 | 1170 | 28 | M39 | 570 | 15 | 25 | 715.00 | 160968 |



SAINT-GOBAIN
Saint-Gobain PAM Canalisation
21, avenue Camille Cavallier - BP 129 | 54705 PONT-A-MOUSSON CEDEX | FRANCE
Tel : (33) 03 83 80 67 89 | E-mail : Pamline@saint-gobain.com | pamline.fr

| DN (mm) | PN | A (mm) | ØD (mm) | ØK (mm) | N | M | L (mm) | +e (mm) | -e (mm) | Mass (kg) | References |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1000 | 25 | 400 | 1320 | 1210 | 28 | M52 | 680 | 15 | 25 | 1280.00 | MDC10DADH |
| 1100 | 10 | 300 | 1340 | 1270 | 32 | M33 | 520 | 25 | 25 | 585.00 | MDC11DABH |
| 1100 | 16 | 340 | 1355 | 1270 | 32 | M39 | 595 | 25 | 25 | 810.00 | 160954 |
| 1100 | 25 | 450 | 1420 | 1310 | 32 | M52 | 760 | 25 | 25 | 1389.00 | MDC11DADH |
| 1200 | 10 | 320 | 1455 | 1380 | 32 | M36 | 545 | 25 | 25 | 744.00 | MDC12DABH |
| 1200 | 16 | 360 | 1485 | 1390 | 32 | M45 | 630 | 25 | 25 | 1112.00 | 160939 |
| 1200 | 25 | 450 | 1530 | 1420 | 32 | M52 | 760 | 25 | 25 | 1871.00 | MDC12DADH |
| 1400 | 10 | 360 | 1675 | 1590 | 36 | M39 | 590 | 25 | 25 | 1036.00 | MDC14DABH |
| 1400 | 16 | 380 | 1685 | 1590 | 36 | M45 | 660 | 25 | 25 | 1352.00 | MDC14DAAH |
| 1400 | 25 | 500 | 1755 | 1640 | 36 | M56 | 830 | 25 | 25 | 2393.00 | 163600 |
| 1500 | 10 | 380 | 1785 | 1700 | 36 | M39 | 615 | 25 | 25 | 1165.00 | MDC15DABH |
| 1500 | 16 | 400 | 1820 | 1710 | 36 | M52 | 695 | 25 | 25 | 1580.00 | MDC15DAAH |
| 1500 | 25 | 500 | 1865 | 1750 | 36 | M56 | 835 | 25 | 25 | 2445.00 | MDC15DADH |
| 1600 | 10 | 390 | 1915 | 1820 | 40 | M45 | 645 | 25 | 25 | 1350.00 | MDC16DABH |
| 1600 | 16 | 420 | 1930 | 1820 | 40 | M52 | 720 | 25 | 25 | 1400.00 | MDC16DAAH |
| 1600 | 25 | 510 | 1975 | 1860 | 40 | M56 | 860 | 25 | 25 | 3132.00 | MDC16DADH |
| 1800 | 10 | 410 | 2115 | 2020 | 44 | M45 | 675 | 25 | 25 | 1994.00 | MDC18DABH |
| 1800 | 16 | 420 | 2130 | 2020 | 44 | M52 | 730 | 25 | 25 | 2400.00 | MDC18DAAH |
| 1800 | 25 | 550 | 2195 | 2070 | 44 | M64 | 920 | 25 | 25 | 3850.00 | MDC18DADH |
| 2000 | 10 | 410 | 2325 | 2230 | 48 | M45 | 675 | 25 | 25 | 2400.00 | MDC20DABH |
| 2000 | 16 | 450 | 2345 | 2230 | 48 | M56 | 780 | 25 | 25 | 2800.00 | MDC20DAAH |
| 2000 | 25 | 600 | 2425 | 2300 | 48 | M64 | 975 | 25 | 25 | 4560.00 | MDC20DADH |

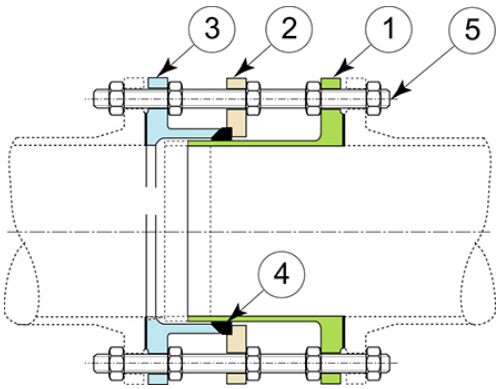





SAINT-GOBAIN

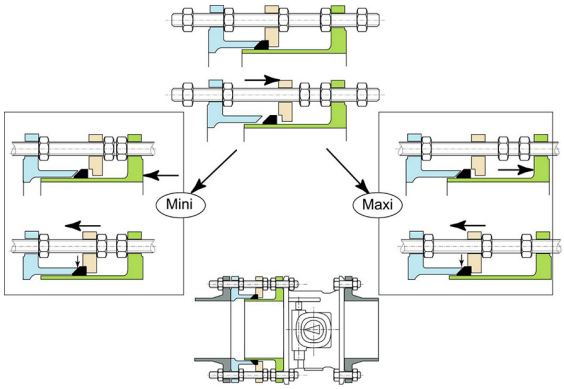
Saint-Gobain PAM Canalisation
21, avenue Camille Cavallier - BP 129 | 54705 PONT-A-MOUSSON CEDEX | FRANCE
Tel : (33) 03 83 80 67 89 | E-mail : Pamline@saint-gobain.com | pamline.fr

## Material and coatings




| Item | Description | Material | Coating |
|---|---|---|---|
| 1 | Fixed body | Steel EN 10025 S235JRG2 | Blue epoxy powder 250 microns medium thickness with a minimum of 200 microns, in accordance with EN 14901-1 (PECB) - RAL 5005 |
| 2 | Gland | Steel EN 10025 S235JRG2 | |
| 3 | Sliding body | Steel EN 10025 S235JRG2 | |
| 4 | Gasket | EPDM rubber | |
| 5 | Tie bars | Steel EN 10025 S235JRG2 or S335J2G3 grade 4/6 | Zinc plating 15 µ |

## Installation



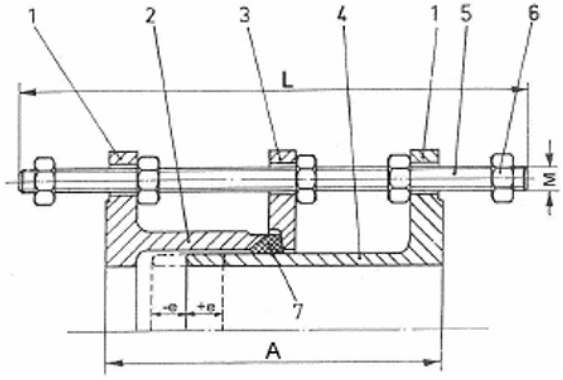



SAINT-GOBAIN
Saint-Gobain PAM Canalisation
21, avenue Camille Cavallier - BP 129 | 54705 PONT-A-MOUSSON CEDEX | FRANCE
Tel : (33) 03 83 80 67 89 | E-mail : Pamline@saint-gobain.com | pamline.fr

## Compliance to Standards

For the self restrained dismantling Joint PO
These equipments comply with the standard NFE 29220, especially concerning the flanges dimensions according to ISO 7005.
The full-flange sliding body: the flange is according to ISO 7005 standard.
The stroke range is higher than those demanded in the NFE 29220.

## Assembly and start up




### Description

The self-restrained dismantling joint type "PO" allows the installation and removal of valves pieces or flanged pipes. An active adjustment length until ± 25 mm is possible during the assembly.
The transmission of the forces is carried out by the threaded rods on the counter flange.

### Transport

The transport of the pieces must be done professionally in order to avoid damages on the material.

### Storing

The self-restrained dismantling joint must be protected from bad weather and pollution. During a long storage period a protection against UV is necessary.

### Assembling in the pipe network

It is necessary to control that the flanges to be connected are clean and not damaged. The flanges must be installed in parallel and centered.

### Assembly

- To fix the first flange with the flange of the pipe or the valve. The two flanges must be centered and parallel. The flat tightness seals (to be provided by the customer) will also be installed centered.
- The nuts of the first connection are to be tightened (tightening torque according to information given by the supplier of the joint).
- Assembly of the second connection taking into account the necessary mini and maximum length of the dismantling joint (A).



Saint-Gobain PAM Canalisation
21, avenue Camille Cavallier - BP 129 | 54705 PONT-A-MOUSSON CEDEX | FRANCE
Tel : (33) 03 83 80 67 89 | E-mail : Pamline@saint-gobain.com | pamline.fr

- After the assembly of two connections, it is necessary to push the tightness seal (7) against the external pipe (2).
- Then it is necessary to tighten the nuts with the ring of tightening (3). Once the assembly of the pipe finished and the length of the dismantling joint defined, it is necessary to tighten the nuts in cross.

The dismantling joint is now ready for operation and can receive the axial thrust of the pipe.

| DN | PN10 | | PN16 | |
|---|---|---|---|---|
| | Threaded rod | Tightening torque to the tightening ring (±10%) | Threaded rod | Tightening torque to the tightening ring (±10%) |
| mm | | Nm | | Nm |
| 50 | M16 | 42 | M16 | 42 |
| 65 | M16 | 42 | M16 | 42 |
| 80 | M16 | 42 | M16 | 42 |
| 100 | M16 | 42 | M16 | 42 |
| 125 | M16 | 42 | M16 | 42 |
| 150 | M20 | 82 | M20 | 82 |
| 200 | M20 | 82 | M20 | 82 |
| 250 | M20 | 82 | M24 | 140 |
| 300 | M20 | 82 | M24 | 140 |
| 350 | M20 | 82 | M24 | 140 |
| 400 | M24 | 140 | M27 | 210 |
| 500 | M24 | 140 | M30 | 280 |
| 600 | M27 | 210 | M33 | 380 |
| 700 | M27 | 210 | M33 | 380 |
| 800 | M30 | 280 | M36 | 640 |
| 900 | M30 | 280 | M36 | 640 |
| 1000 | M33 | 380 | M39 | 780 |
| 1200 | M36 | 640 | M45 | 1200 |
| 1400 | M39 | 780 | M45 | 1200 |
| 1600 | M45 | 1200 | M52 | 1900 |





Saint-Gobain PAM Canalisation
21, avenue Camille Cavallier - BP 129 | 54705 PONT-A-MOUSSON CEDEX | FRANCE
Tel : (33) 03 83 80 67 89 | E-mail : Pamline@saint-gobain.com | pamline.fr