

Hydronic balancing and Control | AB-PM rack set

Pre-assembled DPCV connection set for fast installation, connection and servicing of manifolds

The AB-PM rack sets is a compact and time saving solution for the installation of a dynamic hydronic balancing solution. The AB-PM combined Differential Pressure and Control Valve (DPCV) ensures optimal hydronic balance at both full-load and partial-load conditions. The pre-assembled set is installed in front of each apartment or manifold in hydronic heating systems. It is the best answer for a reliable system with proper distribution of flow and differential pressure both at full load and partial load conditions.

8-in-1

solution for dynamic hydronic balancing, zone control, flow limitation, shut-off, flexible installation, easy connection, service and maintenance.



Install - set - forget

good reasons to choose AB-PM rack set

The Danfoss AB-PM rack set is designed to ensure dynamic balancing and easy installation (even of a heat meter) in manifold systems for radiators or underfloor heating. The set is pre-assembled and pressure-tested from factory and include two brackets for wall mounting. By that the set is easy and flexible to install, the small and compact design fits well in hallway installation, in front of manifolds or in cabinets. An integrated filter in the set removes dirt and particles to ensure continuous performance in the heating system. The dedicated design of the set with ball valves for easy shut-off enables safe commissioning, servicing and maintenance of the manifold and/or heating system.



AB-PM rack set including optional heat meter

AB-PM combined dynamic balancing valve

Danfoss AB-PM is the main component in the connection set. It features three hydronic functions in a compact valve body:

1. Differential Pressure Controller (**DPCV**)
2. Zone Control Valve (**DPCV**)
3. Flow limiter

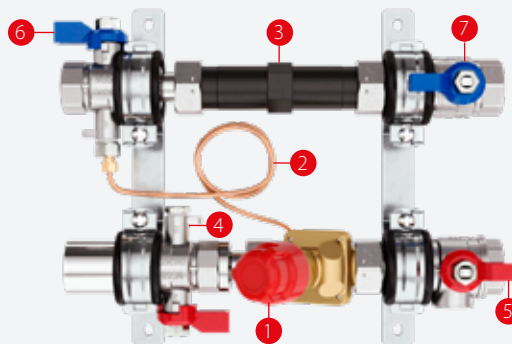
AB-PM is designed to be used in residential heating applications. It can be used both for smaller or larger radiator or underfloor heating systems. The compact AB-PM valve body is ideal for small spaces such as pre-fabricated cabinets. The dynamic balancing valve provides proper hydronic balance at full and partial load conditions. The limitation of the maximum flow is simple and fast. In addition, programmable zone control, e.g. for night setback or holiday mode, is available by using a TWA-Q thermal actuator, connected to a room controller. The valve is available in a standard or a high pressure (HP) version for bigger apartments.

AB-PM rack set technical data

Nominal diameter	DN 15 – 25
Connections	G $\frac{3}{4}$ " Int. thread (ISO 228 -1)
Nominal flow range	300-600 l/h
Δp setting range	Standard: 5-15 kPa High Pressure: 10-25kPa
Datasheet	click here to open the datasheet

Partlist:

- 1 Differential pressure control valve – AB-PM
- 2 Impulse tube
- 3 Heat meter replacement piece (110 mm)
- 4 Inlet ball valve with heat meter temperature sensor connector
- 5 Inlet ball valve with build-in filter
- 6 Outlet ball valve with impulse tube connector
- 7 Outlet ball valve after heat meter



DN	Thread	Qnom.	AB-PM	AB-PM HP
15	G $\frac{3}{4}$ "	300 l/h	003Z1490	003Z1492
20	G $\frac{3}{4}$ "	600 l/h	003Z1491	003Z1493

Danfoss A/S

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