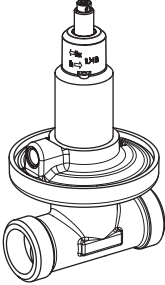
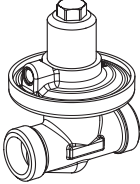
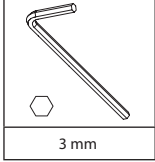
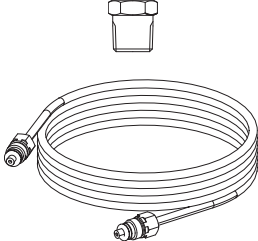
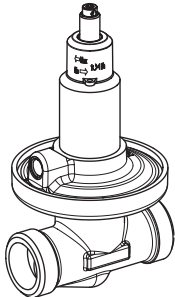
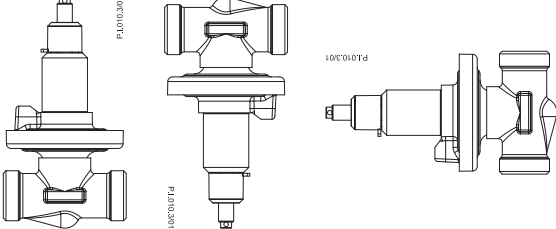
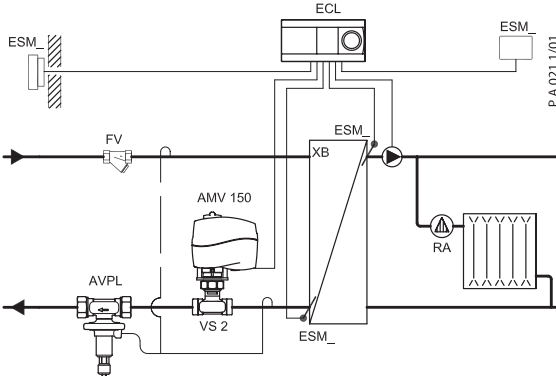
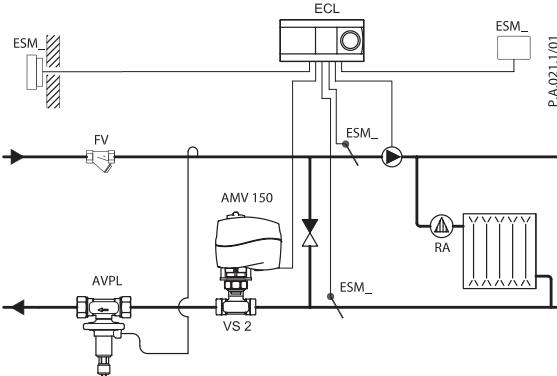
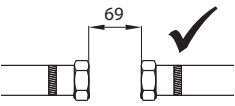
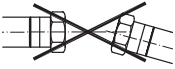
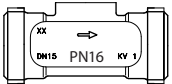
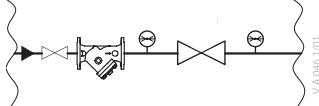
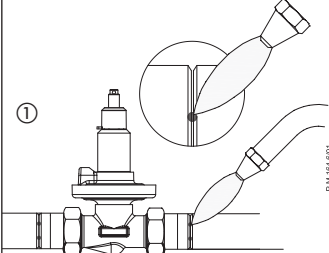
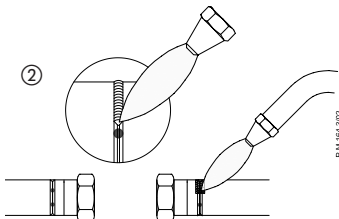
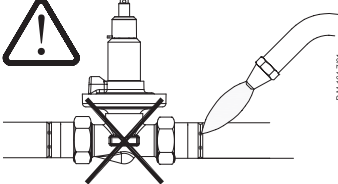
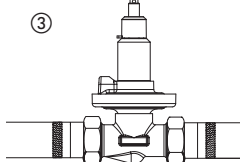


Operating Guide

AVPL, AVPL-F

  AVPL AVPL-F	 MAINTENANCE FREE  3 mm 
1  	2 
3  	
4        	

AVPL, AVPL-F

5

1

2

3

4

6

3-5 Nm

3 mm

Max

Min

10⁵ = 1 kPa

P.M.203.1/01

7

P.D.204.1/01

Max

Min

10⁵ = 1 kPa

8

P.D.147.1/01

Fittings

5

12

R 1/4

8

13.5

R 3/8

DN	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	H ₁ (mm)	H ₂ (mm)	a ISO 228/1	b ISO 7/1	Weight (kg)
AVPL 15 (kvs 1.0)	65	120	139	104	-	G ¾ A	R ½	0.64
AVPL 15 (kvs 1.6)				105				0.69
AVPL 15 (kvs 2.5)				-				0.70
AVPL-F 15 (kvs 2.5)	65	120	139	-	63	G ¾ A	R ½	0.63

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ENGLISH
Safety Notes


Prior to assembly and commissioning to avoid injury of persons and damages of the devices, it is absolutely necessary to carefully read and observe these instructions.

Necessary assembly, start-up, and maintenance work must be performed only by qualified, trained and authorized personnel.

Prior to assembly and maintenance work on the controller, the system must be:

- depressurized,
- cooled down,
- emptied and
- cleaned.

Please comply with the instructions of the system manufacturer or system operator.

Definition of Application

AVPL(-F) is a self-acting differential pressure controller for PN 16 with adjustable or fixed differential pressure setting. The controller is supplied with impulse tube, O-ring gasket and tail-piece socket for pressure connection (fig. ①).

The technical parameters on the product labels determine the use.

Assembly
Admissible Installation Positions ②

- The controller can be installed in any position.

Installation:

The control valve body must be installed in the heating system return with flow in the direction of the arrow (fig. ④). The valve can be installed in any orientation position. The Danfoss strainer type FV or similar must be installed in the direction of the flow (fig. ④) in front of the controller. The impulse tube must be mounted horizontally on the pipe to prevent impurities from flowing into the impulse tube. ⑤

Starting up:
Filling the system, first start-up

1. Slowly open shut-off devices in the flow pipeline.
2. Slowly open shut-off devices in the return pipeline.

Putting out of operation

1. Slowly close shut-off devices in the flow pipeline.
2. Slowly close shut-off devices in the return pipeline.

Setting:

(not relevant at fixed setting version AVPL-F)

The differential pressure can be set by means of an Allen key NV 3 (fig. ⑥).

On delivery the controller is set to 10 kPa (0.1 bar). 1 turn corresponds with 1 kPa (0.01 bar). The arrow on the controller top shows that the setting of the differential pressure is increased when it is turned clockwise.

Note that the stop is reached after 20 turns.

Seal: ⑦

The set-point adjuster can be sealed by a seal wire, if necessary.

Fault location:

If the controller does not operate properly check whether:

- valve body is mounted correctly (arrow points in flow direction)
- impulse tube is mounted correctly
- impulse tube connection is blocked

Pressure testing:

Impulse tube and needle valves, if any, must be open during pressure testing.

Max. test pressure PN 16 25 bar.

AVPL, AVPL-F

DANSK

Sikkerhedsnoter



Disse instruktioner SKAL læses omhyggeligt forud for montering og idriftsætning samt respekteres for at undgå skader på personer og udstyr.

Nødvendigt monterings-, opstarts- og vedligeholdelsesarbejde må kun udføres af kvalificeret, faglært og autoriseret personel.

Forud for monterings- og vedligeholdelsesarbejde på regulatoren skal systemet være:

- trykløst
- nedkølet
- tømt og
- rengjort.

Følg systemfabrikantens eller systemoperatørens instruktioner.



NEDERLANDS

Veiligheidsvoorschriften



Voordat u begint met montage en inbedrijfstelling, is het belangrijk dat u deze instructies zorgvuldig leest en in acht neemt om letsel en schade aan de apparatuur te voorkomen.

Montage-, inbedrijfstellings- en onderhoudswerkzaamheden moeten worden uitgevoerd door voldoende gekwalificeerd personeel.

Zorg ervoor dat het systeem aan de volgende voorwaarden voldoet voordat er met montage- of onderhoudswerkzaamheden wordt begonnen:

- drukloos,
- afgekoeld,
- geleegd en
- schoongemaakt.

Neem alle instructies van de fabrikant of operator van het systeem in acht.



DEUTSCH

Sicherheitshinweise



Um Verletzungen von Personen und Schäden am Gerät zu vermeiden, ist es absolut notwendig, diese Anleitung vor der Montage und Inbetriebnahme sorgfältig zu lesen und die Anweisungen zu befolgen.

Nur qualifiziertes, geschultes und autorisiertes Personal darf die notwendigen Montage-, Inbetriebnahme- und Wartungsarbeiten durchführen.

Vor Montage- und Wartungsarbeiten am Regler muss das System

- drucklos,
- abgekühlt,
- entleert und
- gereinigt sein.

Die Anweisungen des Systemherstellers oder Netzbetreibers sind zu befolgen.



TÜRKÇE

Güvenlik Notları



Fiziksel yaralanmayı ve cihazların hasar görmesini önlemek amacıyla, montaj ve devreye alma öncesinde bu talimatların dikkatle okunması ve talimatlara uyulması gereklidir.

Gerekli montaj, devreye alma ve bakım çalışması sadece nitelikli, eğitilmiş ve yetkili personel tarafından gerçekleştirilmelidir.

Kontrolörde montaj ve bakım çalışmasından önce sistem:

- basıncı giderilmelidir,
- soğutulmalıdır,
- boşaltılmalıdır ve
- temizlenmelidir.

Lütfen sistem üreticisinin veya sistem operatörünün talimatlarına uyun.



Danfoss A/S

Climate Solutions • danfoss.com • +45 7488 2222

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