

Installation Guide

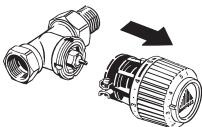
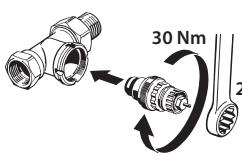
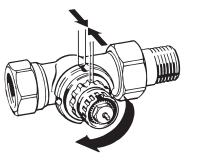
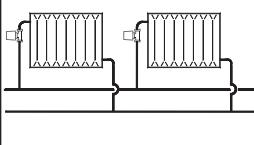
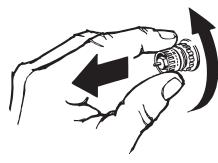
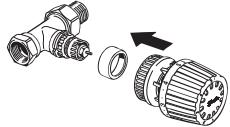
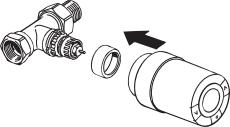
Presetting Inserts for RAVL and RAV Valves

1 Selection and Ordering

Danfoss valve body*	Valve size	Insert	RA 2990 sensor	Combi-set with <i>living eco</i> ®	Combi-set with <i>living connect</i> ®
 RAVL	DN 10-15 (3/8" - 1/2") DN 20 (3/4")	013G4011 013G4012	013G4017 013G4018	014G0056 014G0057	014G0007 014G0008
 RAV	DN 10-15-20 (3/8" - 1/2" - 3/4")	013G4013	013G4019	014G0058	014G0009

* Inserts for other valve bodies on request.

2 Changing the Insert

			
1. Drain the system, then remove the old sensor.	2. Unscrew the gland seal.	3. Use an Allen key* to unscrew the old insert.	4. Clean the valve seat with a cloth.
 30 Nm 21			
5. Screw in the new insert by hand and tighten with a spanner.	6. Align a notch with a cutout in the valve body to assure correct orientation of the sensor.	7. Flush and refill the system.	8. Set the desired flow (default is N = max. flow).
			

* Dismantling nuts can be used instead of Allen keys (see Accessories).

3 Overview: Insert Combi-sets for RAVL / RAV Valves

Combi-sets with RA 2990 sensor

Valve type	Valve size	k _v -value	Recognized by	Order no.
RAVL	3/8"	0,5 / 0,8	k _v -value noted on valve body. Bottom screw 13 mm Allen.	013G4017
RAVL	1/2"			
RAVL	3/4"			013G4018
RAV/8	3/8" - 1/2" - 3/4"	-	Bottom screw 19 mm Allen.	013G4019



Combi-sets with *living eco*® sensor

Valve type	Valve size	k _v -value	Recognized by	Order no.
RAVL	3/8"	0,5 / 0,8	k _v -value noted on valve body. Bottom screw 13 mm Allen.	013G4056
RAVL	1/2"			
RAVL	3/4"			013G4057
RAV/8	3/8" - 1/2" - 3/4"	-	Bottom screw 19 mm Allen.	013G4058



Combi-sets with *living connect*® sensor

Valve type	Valve size	k _v -value	Recognized by	Order no.
RAVL	3/8"	0,5 / 0,8	k _v -value noted on valve body. Bottom screw 13 mm Allen.	013G4007
RAVL	1/2"			
RAVL	3/4"			013G4008
RAV/8	3/8" - 1/2" - 3/4"	-	Bottom screw 19 mm Allen.	013G4009

4 Accessories

Type	Order no.
 Dismantling nut for RAVL valves with 13 mm Allen bottom screw.	192H2210
 Dismantling nut for RAV valves with 19 mm Allen bottom screw.	192H2310