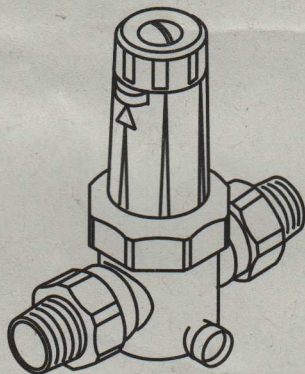




Installation and Maintenance Guide



Water Is Worth Loving.

Cartridge
Säätöosa, täydellinen
Regulator-del, komplett

DN 15 Oras no. 438685
DN 20 Oras no. 438693
DN 25 Oras no. 438694
DN 32 Oras no. 438686
DN 40 Oras no. 438686
DN 50 Oras no. 438686

Filter
Siivilä
Sil

Pressure gauge plug
Painemittarin tulppa
Plugg för manometer

O-ring
O-rengas
O-ring

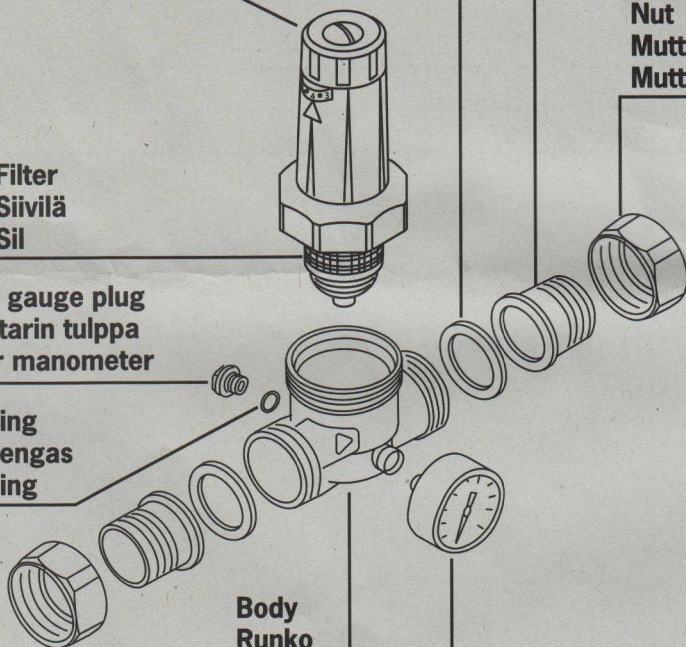
Body
Runko
Ventilhus

Level washer
Tasotiviste
Plantätning

Threaded sleeve
Kierreholkki
Gänghylsa

Nut
Mutteri
Mutter

Pressure gauge
Painemittari
Manometer
Oras no. 436 012



General

The Oras standard pressure valve is designed to lower water pressure to a piping system's default value. Its primary application is for installation on household pipework in buildings that meet Finnish Building Code D1 (which in turn satisfies the DIN 4109 standard for noise protection in buildings).

Installation

Select a place for the valve such that any required adjustments and servicing can be carried out easily. Flush the piping carefully prior to installation. The water flow direction is marked with an arrow on the valve body. Make sure that no tension remains in the valve after installation.

Secondary pressure

The standard pressure valve's secondary pressure is factory preset at 400 kPa and can be adjusted from 150-600 kPa. Note! Technical data. First ensure that primary pressure is at least 100 kPa higher than the desired secondary pressure. If a by-pass valve is installed after the standard pressure valve, secondary pressure must not exceed 80% of the by-pass valve's relief pressure.

Servicing

Under normal conditions, the standard pressure valve requires no special servicing. The cartridge and its filter need to be cleaned once or twice a year depending on water quality. First detach the cartridge from the valve as shown in the figures. Clean out any dirt in the valve body. If the cartridge is damaged, change it for a new one.

Possible problems, their causes and repair instructions

Secondary pressure rising above the set value may be due to rising water temperature in a heating device installed on the secondary side. Heated water expands, and the pressure gauge shows a rise because the one-way valve is not tight enough. This does not affect the functioning of the standard pressure valve in any way. It is relatively easy to check whether pressure has been raised by the heater, by simply switching it off. If pressure continues to rise, this may be due to dirt in the standard pressure valve itself. The cartridge then needs to be cleaned.

Construction

The Oras standard pressure valve is a balanced socket valve with a coaxial filter. The valve body is red brass and the inner parts are of high-quality corrosion-resistant material. All the sealing materials are non-ageing elastomer. The membrane is fibre-strengthened plastic. The adjustment wheel and spring cap are of fibre-glass strengthened plastic.

Primary pressure: max. 1600 kPa
Secondary pressure: DN 15,

adjustable 150-500 kPa
factory default 300 kPa
DN 20-50,
adjustable 150-600 kPa
factory default 400 kPa

Pressure difference: min. 100 kPa

Reduction ratio: max. 10:1

Working temperature: DN 15, max. +90°C
DN 20-50, max. +60°C

Installation position: free

Capacity: see table

Accessories: pressure gauge 0...10 bar
G1/4, Oras no. 436012

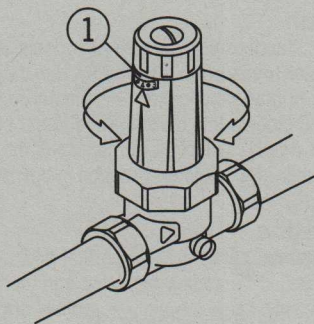
Spare parts:

Cartridge
DN 15 Oras no. 438685
DN 20 Oras no. 438693
DN 25 Oras no. 438694
DN 32 Oras no. 438686
DN 40 Oras no. 438686
DN 50 Oras no. 438686

DN	Size	Flow-rate Max. (m ³ /h)
15	G ½	1.8
20	G ¾	2.9
25	G 1	4.7
32	G 1¼	7.2
40	G 1½	8.3
50	G 2	13

Installation

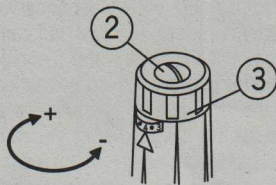
Install the valve at zero tension and in accordance with the flow direction indicated. Turn the spring cap so that the pressure indicator (1) can be read easily. This procedure can be performed whether or not the system is under pressure.



Adjusting secondary pressure

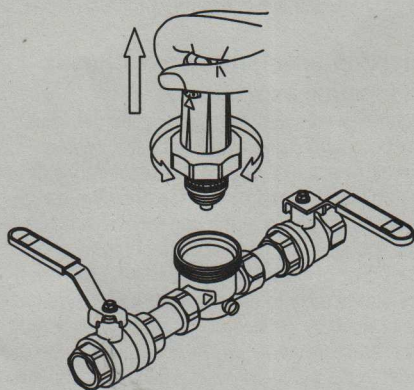
The secondary pressure setting is modified as follows:

Loosen the cap's (3) locking screw (2). Turn the cap counter-clockwise (-) to lower secondary pressure and clockwise (+) to raise it. The valve's secondary pressure is factory preset at 400 kPa.



Servicing

Close the stop valves ahead and after the standard pressure valve. Undo the locking screw and detach the cartridge. Use only cold water to clean the cartridge and filter.



Oras develops, manufactures and markets user-friendly and innovative faucet systems and the related valves and modules. The design and technical solutions of our products are driven by user-friendliness. Oras is the Nordic market leader and one of the Europe's largest manufacturers of faucets. The Oras Group has production facilities in Finland, Poland, and Norway. A large and versatile collection and alternatives for different purposes enable you to find the right faucet for every purpose. For the further details please apply to Oras web site at www.oras.com

Det Norske Veritas Certification OY/AB certifies that the Quality Management System of Oras Oy in Rauma Finland, conforms to the ISO 9001:2000 and the Environmental Management System to the ISO 14001:2004 standard. The certificates are valid for development, manufacture, marketing, sales and after sales services of faucets, accessories and valves.

Det Norske Veritas Certification OY/AB has granted Oras Oy an Occupational Health and Safety Certificate for compliance with the OHSAS 18001 standard.

The TÜV CERT Certification Body of TÜV NORD Zertifizierungs- und Umweltgutachter Gesellschaft mbH certifies that Oras Olesno Sp. z o.o. in Olesno Poland has established and applies Quality and Environmental Management System for manufacture, storage, marketing, sales and after sales services of faucets, valves and accessories. Proof has been provided that the requirements according to ISO 9001:2000 and ISO 14001:2004 are fulfilled.



ORAS GROUP

Isometsäntie 2, P.O. Box 40
FI-26101 Rauma
Finland
Tel. +358 2 83 161
Fax +358 2 831 6300
Info.Finland@oras.com



www.oras.com

Twspb.ru