

Backflow Controlvalve BCV-2002-M, Mechanical

Table of Contents

1. Introduction	1
2. Structure and Function	1
3. Features	1
4. Technical Data	2
5. Ordering Data	2

1. Introduction

The APSON Backflow Controlvalve BCV-2002-M is a *mechanically* adjustable overpressure valve for large throughput. It is particularly suitable for aggressive media, e.g. lacquers, solvents, caustic solutions, a.o.

The controlvalve releases the flow to the output, as long as the medium pressure at the input exceeds a manually preset value. It is specially optimized for good rinsing barness and is particularly suitable for the application in painting plants, for lacquer backflow-pressure adjustment or as dynamic bypass in automatic systems.



Backflow Controlvalve BCV-2002-M

2. Structure and Function

The APSON Backflow Controlvalve BCV-2002-M consists of a medium pressure chamber, which is separate from the compression spring chamber by means of a solvent-resistant diaphragm. The diaphragm is subjected on the Teflon™-coated side by the medium under pressure which has to be controlled and on the other side by the compression spring.

A sealing stamp connected with the diaphragm opens, as long as medium over-pressure at the input prevails. The desired medium pressure at the output of the backflow controlvalve is adjusted mechanically by means of the adjusting nut. For rinsing the backflow controlvalve, the compression spring must be relieved. In order to manage this, the adjusting nut is to be turned to the left (counter clockwise direction).

Importantly: When exchanging the diaphragm it is to be made certain that the Teflon™- coated surface of the diaphragm points to the medium side. The backflow controlvalve is to be installed preferably with the diaphragm in horizontal plane.

3. Features

- Environmental carefully due to short rinsing times.

- Good rinsing barness and small solvent consumption.
- Small pressure losses.
- Rational maintenance and holding of spareparts.
- Very fast exchange of a defective diaphragm (2 minutes).
- Simplest handling at assembling, adjustment and maintenance.
- Small, very compact size.

4. Technical Data

Denomination:	APSON Backflow Controlvalve BCV-2002-M
Media:	Lacquers, solvents, caustic solutions, a.o.
Working pressure range:	up to 12 bar
Flow rate:	to 47 l/min.
Materials:	<ul style="list-style-type: none"> • Medium-touching sections made of inoxidable steel. • Union nut and cover from aluminum, hardcoated. • Diaphragm from rubber with fabric proportion, Teflon™-coated.
Medium links:	G3/4"
Dimensions:	Diameter 69 mm, Height 110 mm
Mass:	approx. 500 g

5. Ordering Data

Denomination	Part-Nr.
APSON Backflow Controlvalve BCV-2002-M	040-A004
APSON Backflow Controlvalve Key (wrench width 54 mm)	100-0105

Options:

- All aluminum parts made of inoxidable steel

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