



# **HIGH-PRESSURE CHECK VALVES TYPES CV AND CVM**

Direct and in-line mounting

Soft seating up to 4200 bar ensures high reliability

Proven reliability of the design up to 10,000 bar

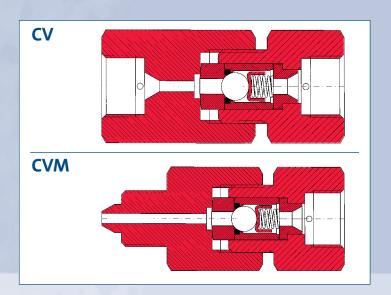


# RESATO CHECK VALVES TYPES CV AND CVM

Resato check valves (types CV and CVM) are designed to ensure flow of liquids and gases in one direction only. When the differential pressure drops below the spring-cracking pressure, the valve shuts off. Up to 4200 bar (60,000 psi) valves are provided with balls and soft seats.

For 7000 (100,000 psi) and 10,000 bar (150,000 psi) check valves have a metal-to-metal seating.

For pressures up to 4200 bar check valves are available for direct mounting (type CVM) in high-pressure connections and for in-line mounting (type CV).



#### **MEDIA**

The soft seats are standard suitable for the following media:

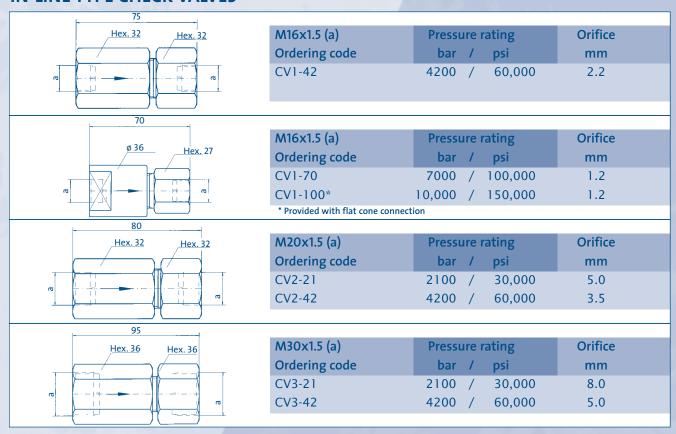
- Water
- Hydraulic and lubrication oils

- Air
- Helium

- Mineral base fluids
- Fluids types like an emulsion of water/oil or water/glycol
- Nitrogen
- Argon

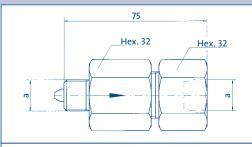
For other liquids or gases, please contact our factory.

### **IN-LINE TYPE CHECK VALVES**

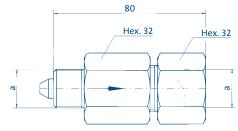




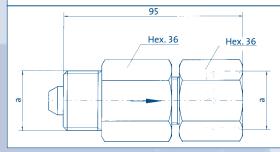
### **DIRECT MOUNTING CHECK VALVES**



M16x1.5 (a) Ordering code	Pressure rating bar / psi	Orifice mm
CVM1-42	4200 / 60,000	2.2



Ordering code bar	1	psi	mm
		P. C.	
CVM2-21 2100	/	30,000	5.0
CVM2-42 4200	/	60,000	3.5



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M30x1.5 (a)	Pressure rating			Orifice	
Ordering code	bar	/	psi	mm	
CVM3-21	2100	/	30,000	8.0	
CVM3-42	4200	/	60,000	5.0	

## **MATERIALS:**

Body and gland material: 1.4404 (316L) or 15-5PH

**Spring:** 1.4310

**Ball / poppet:** 1.4034/1.4404

Seating: Viton O-ring (code V) up to 4200 bar

Alternatives: EPDM (code E)

BUNA-N (code B)

### **ORDERING EXAMPLES:**

CV1 -

**42 ↓** 

V

In-line check valve with M16x1.5 connections

Pressure rating: 4200 bar

Soft seat: Viton



# EXAMPLES OF RESATO HIGH-PRESSURE COMPONENTS UP TO 14,000 BAR

Air-driven pumps and gas boosters
Hydraulically-driven pumps and gas boosters
Fittings
General-purpose valves
Check valves
Swivels
Hoses
Tubing
Pressure transducers
Rupture-disc safety devices
Quick connectors

#### **COMPANY PROFILE RESATO**

Founded in 1985, Resato International B.V. is wholly specialized in the design and manufacture of high-pressure components and systems for pressures of up to 14,000 bar (200,000 psi).

At our modern manufacturing plant in Roden, The Netherlands, we have our own engineering and R&D departments as well as sophisticated production facilities. These enable us to furnish precisely the right component or system a client may need.

# **EXAMPLES OF RESATO HIGH-PRESSURE EQUIPMENT AND SYSTEMS**

Portable pressure-test systems

Test equipment for hoses (safety) valves, fittings etc.

Computer-controlled high-pressure test equipment

Autofrettage systems

Autoclaves

Custom-made test equipment

Water-jet cutting systems

High-pressure food preservation systems

PC data aquisition and recording systems

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Please note that general data and specifications given in this brochure are subject to change without notice. Feel free to contact our sales department if you need more definite information.

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