

# Quickchange Paint Pressure Regulator PRP-3030-K, with Cartridge and Regulation Indicator

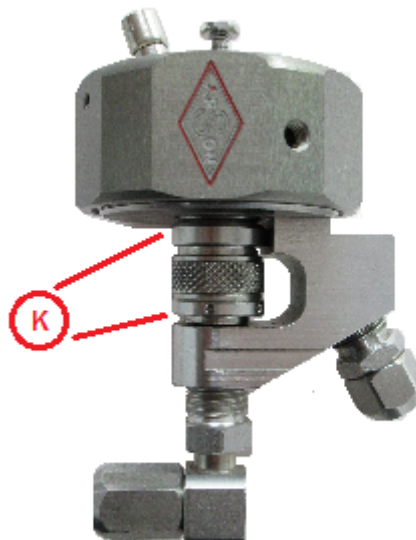
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## 1. Introduction

The APSON Quickchange Paint Pressure Regulators PRP-3030-K are *pneumatically* controlled or *mechanically* adjustable regulators with a replaceable regulation cartridge, and with mechanical regulation indicator. These types of regulators are used everywhere, where *downtimes in operation are very critical* and / or one wants to *change ad hoc the characteristic* of an already installed regulator.

The cartridge is available either a cost-effective repair solution, made of stainless steel, or as a disposable solution, made of plastic.



APSON Quickchange Paint Pressure Regulator PRP-3030-K (P=pneumatic)

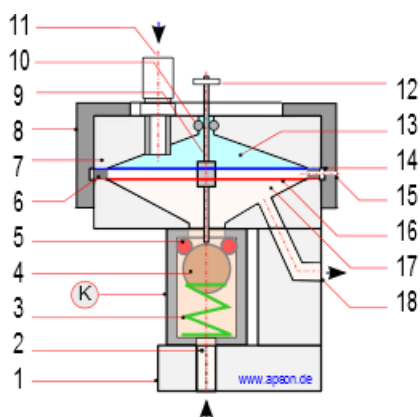
## 2. Performance Characteristics

- Quick replaceable regulator cartridge.
- Different regulator characteristics in the same footprint.

- Fast and reproducible regulation.
- Environmentally friendly because very well flushable.
- Easily exchangeable membrane/s.
- Mechanical regulation indicator.

### 3. Structure and Function

The *mechanical* and *pneumatic* regulators are provided each with a replaceable regulation cartridge K. There are several cartridge types depending on lacquer throughput. To replace the cartridge, the regulator is to be switched to zero pressure and the knurled nut of the cartridge is to be loosened. Then the axial thrust piece in prolongation with the regulation indicator is to be pulled out about 4 mm with the removal support, for the cartridge to be removed resp. replaced.



APSON Quickchange Paint Pressure Regulator PRP-3030-K - Functioning-Scheme

**Legend:** 1=housing, 2=paint input, 3=spring, 4=sealing ball, 5=sealing ring, 6=spacer ring, 7=lid, 8=nut, 9=thrust piece, 10=sealing ring, 11=control air input, 12=regulation indicator, 13=control air space, 14=control air membrane, 15=leakage indicator, 16=paint membrane, 17=paint space, 18=lacquer outlet.

### 4. Technical Data

Designation:	APSON Quickchange Paint Pressure Regulator PRP-3030-K (P=pneumatical) resp. PRM-3030-K (M=mechanical)
Working materials:	Solvent- and waterborne lacquers, solvents, alkalis, a.o.
Working material pressure at input:	max. 10 bar (KP: dependent on control air pressure)
Working material pressure at outlet:	approx. 0 - 8 bar, or according to client specification
Control air pressure, for KP:	approx. 0 - 10 bar, or according to client specification
Throughputs, depending on the cartridge type (water, l/min at 5 bar and maximal opened regulator valve):	KTK = Little throughput, approx. 0.7 l/min, KTS = Standard throughput, approx 1.0 l/min, KTG = Large throughput, approx. 1.4 l/min
Materials:	Working material contacting parts made of stainless steel. Nut, spacer and lid made of aluminum, hard anodized. Membranes made of rubber with fabric, Teflon™-coated. Cartridge, stainless steel 4305 or disposable cartridge made of plastic.
Connection thread:	Control air: G1/8"; Working material: G1/4"

Leakage indicator:	Borehole with thread M5
Dimensions, with connectors:	KP: Width: ~ 75 mm, Height: ~ 90 mm KM: Width: ~ 75 mm, Height: ~ 135 mm
Mass:	KP: ~ 290 g; KM: ~ 440 g (without manometer)

## 5. Ordering Data

Designation	Ordering number
APSON Quickchange Paint Pressure Regulator PRP-3030-K (P=pneumatical)	040-A053
APSON Quickchange Paint Pressure Regulator PRM-3030-K (M=mechanical)	040-A054
APSON Quickchange cartridge PRKK-3030 (K=little throughput)	040-A055
APSON Quickchange cartridge PRKS-3030 (S=standard throughput)	040-A056
APSON Quickchange cartridge PRKG-3030 (G=large throughput)	040-A057
APSON Paint Pressure Regulator Membrane	200-A265
APSON Paint Pressure Regulator Wrench (size 54 mm)	100-0105

Options: According to client specifications.

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