

Axial Control Valve "ACR"

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Welded Design

The Axial Control Valve is produced as a welded assembly. Prefabricated forgings are welded together, these forgings not only provide a constant high quality and shorter delivery times compared to complex castings but they also weigh less.



nominal diameter*	DN 50 (2") - DN 900 (36")
face-to-face length*	according to API 6D
flange joint	RF + RTJ
pressure range*	ANSI 300/600/900/1500
temperature range*	-40 °C / + 120 °C (-40 °F / +248 °F)

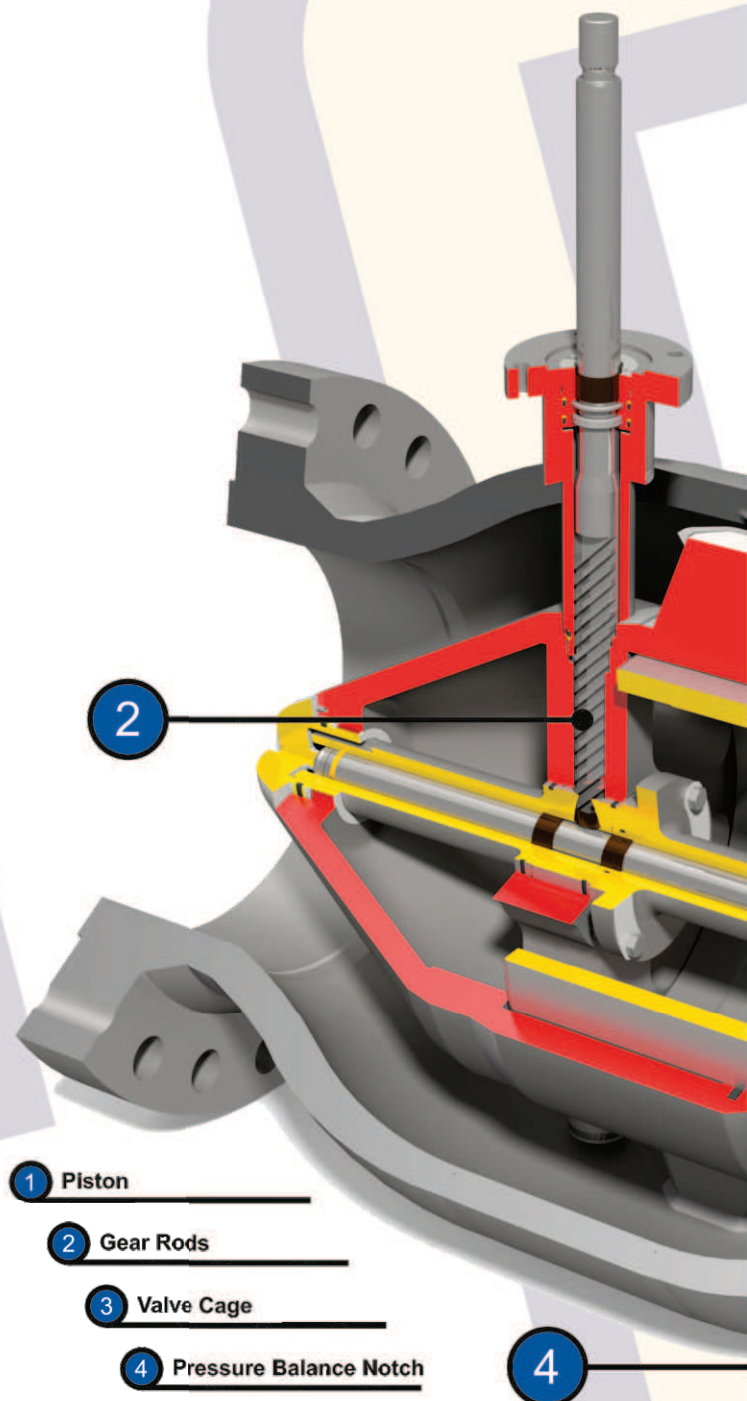
* If requested other configurations are possible

Scope of Application

The Axial Control Valve (ACR) by RMA offers a reliable and precise adjustment of the volumetric flow of gaseous media. This Control Valve can be used in a wide range of applications in the value chain of crude gas. It is particularly suitable for the usage in large transportation networks for supply optimisation or in storage systems. Furthermore the system has proven its value in the subsequent treatment of crude gas. Due to the axial construction of this valve larger volumetric flows are possible compared to conventional valves, while at the same time these valves are less heavy.

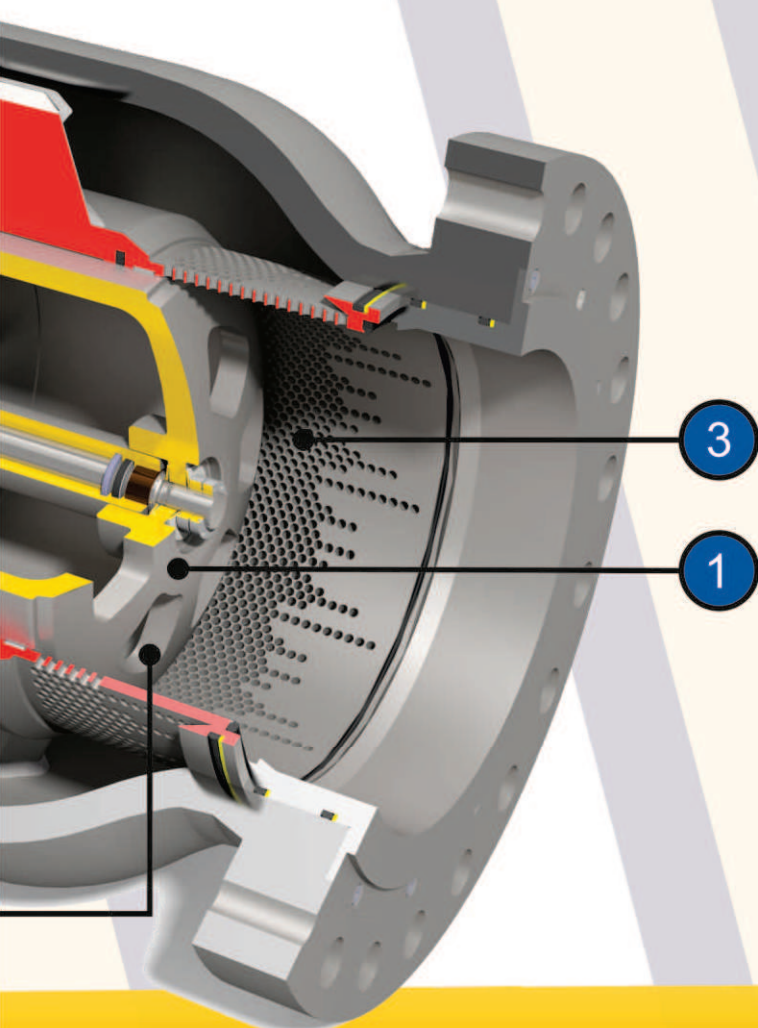
Adjustment Mechanics

The displacement of the piston (1) and with it the adjustment of the volumetric flow is carried out with two gear rods (2). The linear motion is directly transmitted in a 90° angle and thereby fast closing and opening times are provided. Due to a simultaneous engagement of multiple gear teeth of the precise manufactured gear rods an accurate adjustability is achieved.



Internal Pressure Balance

Due to the open construction of the RMA control valve mechanism the pressure balances itself in front of and behind the piston (1) through notches (4). Therefore the piston is able to move free of acting pressure forces and solely has to overcome the flow forces and the frictional forces. For adjustment of the valves only small operating forces are necessary. This allows the installation of smaller actuators and furthermore the stroking times are shortened.



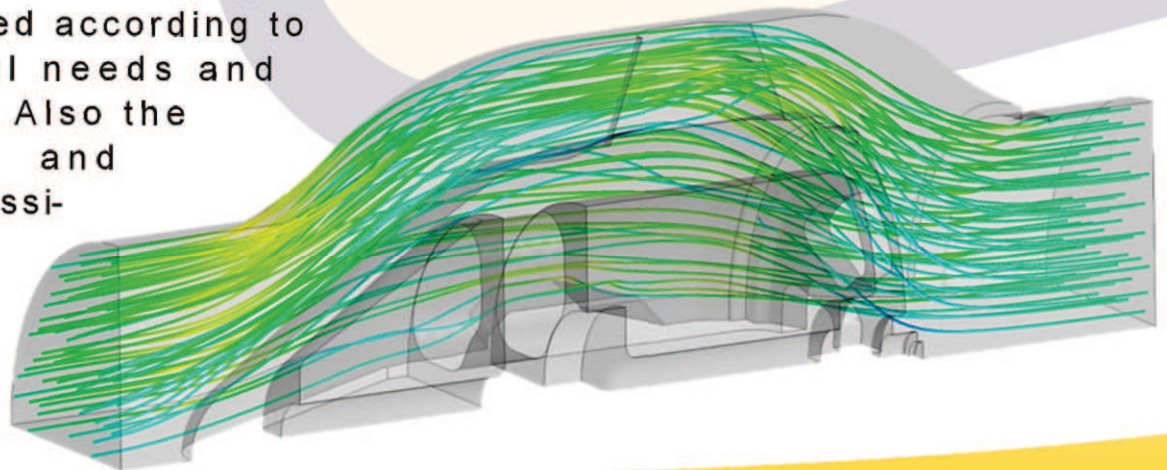
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Less Pressure Drop and Noise Emission

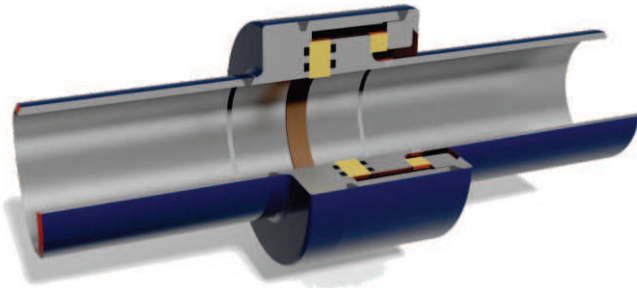
Due to the streamlined set-up and the quality machining just a minor pressure drop is generated. The avoidance of flow direction changes decreases the pressure drop additionally as a result of less turbulences. This reduces the emission of noises and the creation of vibrations.

Individual Valve Design

The valves cages (3), which are developed by RMA, making it possible to create different kinds of volumetric flows depending on the piston stroke. Therefore it is possible to manufacture and install valve cages with linear or equal percentage characteristics. These cages can be designed according to your personal needs and requirements. Also the disassembly and exchange is possible at any time.



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pig traps

isolation joints

check valves

ball valves

ultrasonic flowmeter



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