

Frese OPTIMA Compact DN10-DN50

Text for technical specifications

The length of the modulating stroke shall be independent of flow setting. The valve shall have full stroke modulating control at all flow settings and the stroke should not be restricted by the flow setting position.

The modulation and flow setting shall be one combined unit with a linear modulating motion and a rotational flow setting motion.

The valve characterization shall not be changed at different flow settings.

The combined flow setting and modulating control unit shall be pressure independent.

The Pressure Independent Control Valve shall contain a combined flow setting, differential pressure control and modulating bonnet assembly.

The valve housing shall be hot stamped DZR brass DN10-32 and ductile iron DN40-50.

The valve shall have a spring made of stainless steel, a Diaphragm made of HNBR and O-rings made of EPDM.

The valve housing shall be PN25 rated and suitable for 120°C.

The valve shall have a thread according to ISO 228.

The valve shall have a maximum operating differential pressure of 800 kPa (8 Bar).

The valve shall have an external adjustable analogue step less presetting scale from minimum to maximum flow.

P/T plugs shall be available as an option.

The valve shall be capable of closing against a maximum differential pressure of 600 kPa (6 bar) DN10 - DN25 and 800 kPa (8 bar) DN25L - DN50 with a leakage rate at maximum 0,01% of max rated volumetric flow and comply to EN1349 Class IV.

Pressure independent control valves must be tested in accordance with the BSRIA document BTS.1 'Test Method for Pressure Independent Control Valves' and manufacturers must be able to provide the test results upon request.