

2 WAY VALVE

BALANCED

RUGGED, COMPACT
AND COST-EFFECTIVE

2 way balanced control valve is a rugged, premium quality control valve and actuator system, designed to precisely control hot water, steam and hot oil systems.



BALANCED 2 WAY CONTROL VALVE

PN 16/25/40, DN15 - DN80 mm

We produdly deliver a unique and competitive product, guaranteeing reliable operation and performance.

Whenever a media must be heated or cooled to a certain temperature, Clorius Controls has the most efficient solution.



AVAILABLE CONTROL OPTIONS

SELF-ACTING



ELECTRIC



PNEUMATIC



FEATURES

- Robust and compact design
- Easy to size and select
- Optimized for flow stability
- Single-seated, balanced
- Quadratic characteristics
- Leakage $\leq 0.05\%$ of k_{vs}



APPLICATION

Our balanced control valves are designed for regulating hot water, steam and hot oil systems. Balanced valves are used in installations where the system pressure necessitates a closing force greater than available in the actuator programme for a standard single seated valve, and where the leakage rate for a double-seated valve is unacceptable. The valves are used with our temperature and pressure (differential) regulators for controlling industrial processes, district or central heating plants or marine installations.

FUNCTION

Without an actuator being connected, the valve is held in open position by means of a spring. With force of the spindle the valve will close. In connection with our thermostats or electric and pneumatic actuators, the valves will close at rising temperatures. For cooling circuits a reverse acting double-seated valve can be used. The quadratic characteristics will not cease until the flow has dropped below 4% of the full flow.

DESIGN

The valve components - spindle, seat, cone - are made of stainless steel. The valve body is made of nodular cast iron EN-GJS-400-15 or cast steel GH 240 GH with flanges drilled according to EN 1092-2 + EN 1092-1 ,ANSI B16.5 Class 150 or JIS 5K, JIS 10K, JIS 16K. The thread for the actuator connection is G1B ISO 228. The valves are single-seated and designed for tight closure. The leakage rate is less than 0.05% of the full flow (according to VDI/VDE 2174).

TECHNICAL DATA

Materials:

■ Valve body	Nodular cast iron EN-GJS-400-15 Cast steel GH 240 GH
■ Components	Stainless steel
■ Nuts and bolts	24 CrMo 5/A4
Nominal Pressure	PN25
Seating	Single-seated
Valve characteristics	Quadratic

Regulating capability $\frac{k_{vs}}{k_{vr}} > 25$
Temperature range $\leq 0.05\%$ of k_{vs}

Flanges drilled according to
EN 1092-1 PN10/25/40 // ANSI B16.5 Class 150 //
JIS 5K, JIS 10K, JIS 16K.



**PIONEERING
TECHNOLOGY.**

HEADQUARTERS

Clorius Controls A/S - DENMARK

Kajakvej 4
DK-2770 Kastrup
+45 77 32 31 30
mail@cloriuscontrols.com

SALES REPRESENTATION

Clorius Controls - CHINA

Room 1910-1911, Unicom International
Tower,
NO 547 West Tian Mu Road
Shanghai 200070 P.R. China
Tel: +86 21 33 030 279 // +86 21 33 035 279

Clorius Controls - RUSSIA

BROEN Ltd.
8-ya Tekstilschikov Street 11/2
109129 Moscow, Russia
Tel: +7 495 228 1150 ext. 11-24

Clorius Controls - USA

27657 Commerce Oaks Drive
Oak Ridge North, TX 77385
United States of America
Tel: +1 (414) 243 0846

Clorius Controls - POLAND

BROEN SA
ul. Pieszcycka 10
58-200 Dzierżonów
Poland
Tel: +48 74 832 54 00

Clorius
CONTROLS