

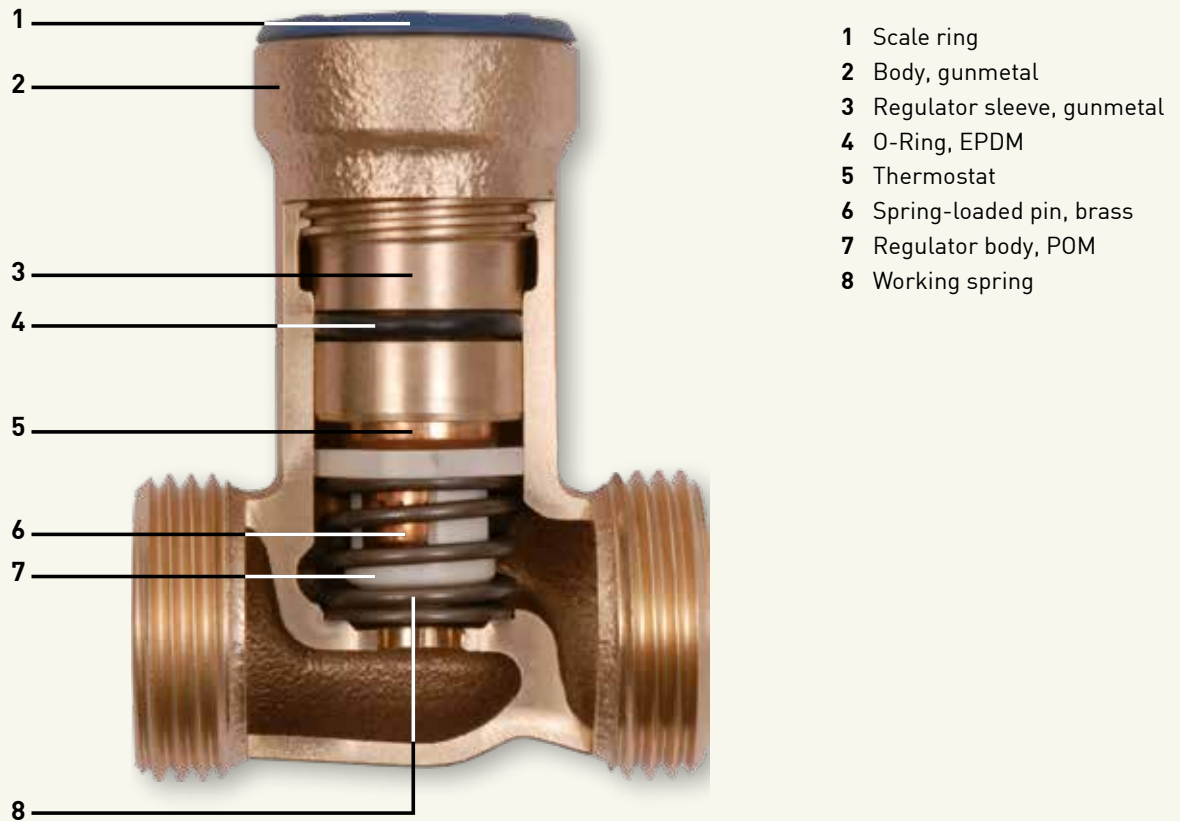
JRG Valves

JRGUTHERM

Thermostatic flow regulator with
threaded shut-off connections



Structure



+ Planning instruction

Even with self-regulating circulation regulators such as the JRGUTHERM, it is necessary to configure the system simply.

Recommended temperature spreading water heater – JRGUTHERM: 2–5 K.

In order to select the suitable pump, the discharge flow of the entire system has to be determined. The delivery height is calculated from the pressure loss of the least favourable pipe line (flow way). The pressure loss of the JRGUTHERM in this pipe line is measured on the $k_{V_{max}}$ line on the diagram.

The pump performance of excessively strong pumps are to be throttled at the pump. The JRGUTHERM must not be used to throttle the pump (maximum differential pressure = 0.4 bar).

The regulators in the remaining pipe lines are to be selected in such a way that the intersection of the flow rate and the necessary pressure drop lies within the interpretation field.

In the appropriate configuration, with the most unfavourable flow way, the installation of a JRGUTHERM flow regulator can be avoided or it can be replaced by a mechanical throttle e.g. JRG Code 6310–6317.

A JRGUTHERM is to be integrated into all circulation outlets.

If there is any danger of the water flowing through the JRGUTHERM flow regulator in the wrong direction, this is to be avoided by the installation of suitable non-return valves. We recommend the installation of JRG Code 8208 screw connections with non-return valves.

For questions and information on application technology, please contact our technical advisors or the technical customer service.

Function

The JRGUTHERM flow regulator regulates the flow volume by permanently sensing the water temperature with a thermostat. The hydraulic calibration is thus automatically established. By using the appropriate threaded shut-off connections, non-return valves and shut-off can be directly integrated.

Materials

All water-conducting components are made of gunmetal, copper, stainless steel or high-grade plastic.

Installation position

The JRGUTHERM flow regulator can be installed in any position. We recommend that, for revision purposes, JRG Code 8339 threaded shut-off connections has to be installed before and after the flow regulator.

Area of application

Setting range	36-63°C
Maximum temperature load	70°C
Maximum operating pressure	PN 10
Maximum differential pressure	40 kPa (0,4 bar)

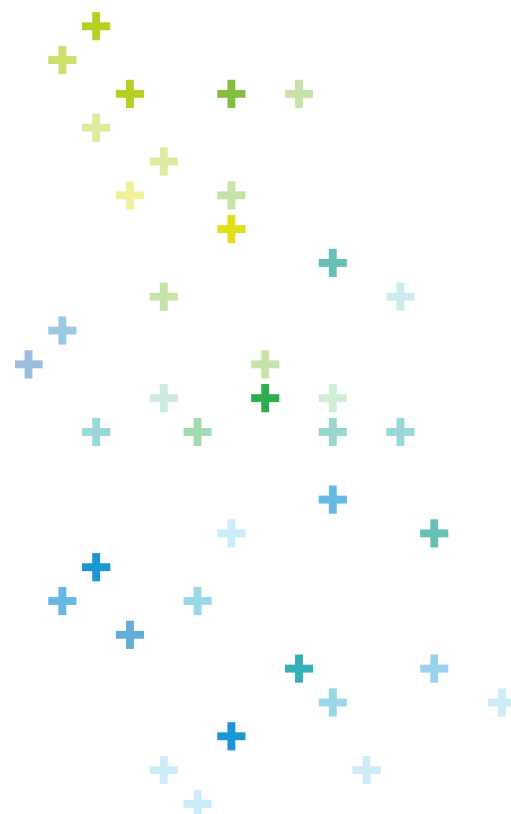
The JRGUTHERM flow regulator is protected from over-heating.

The JRGUTHERM flow regulator is to be fitted with a bypass for thermal disinfection.

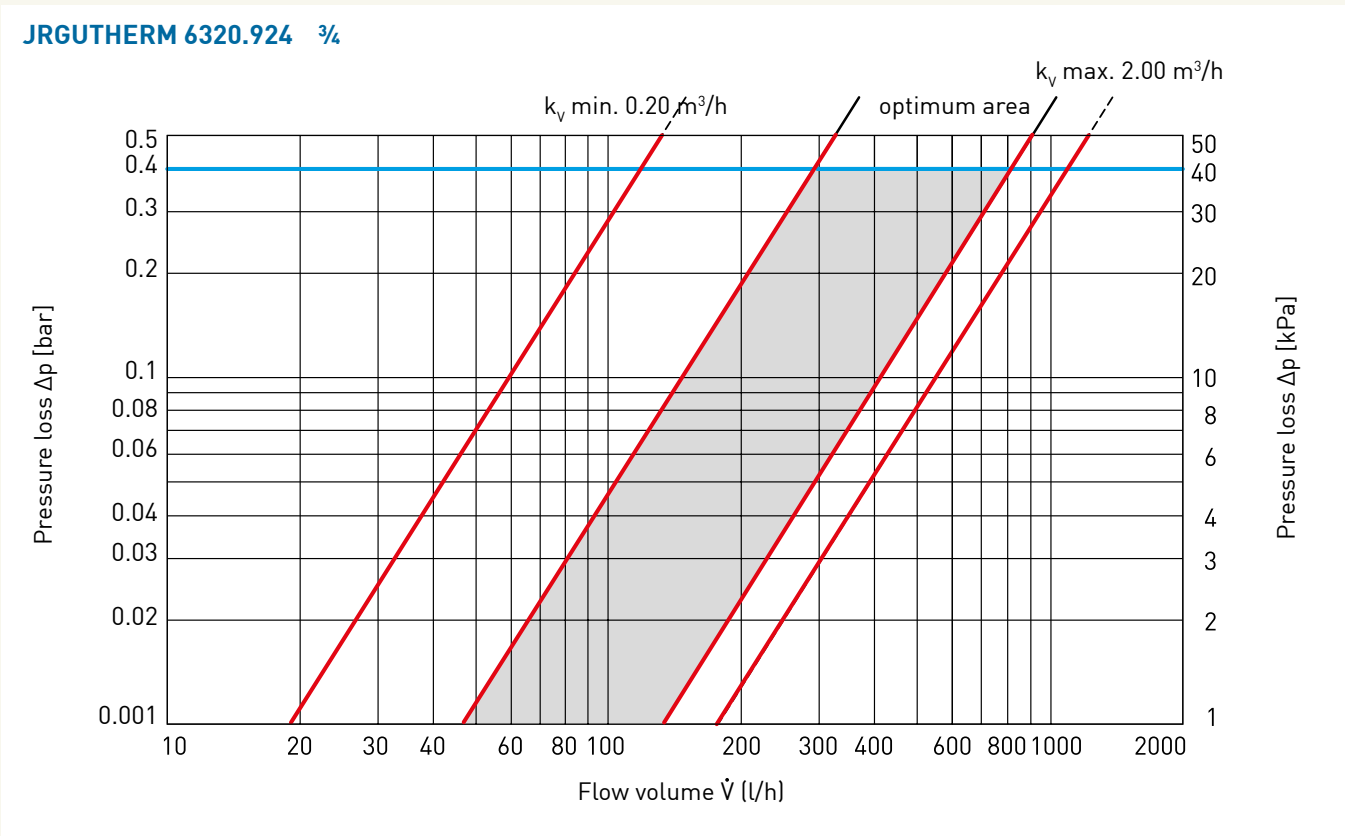
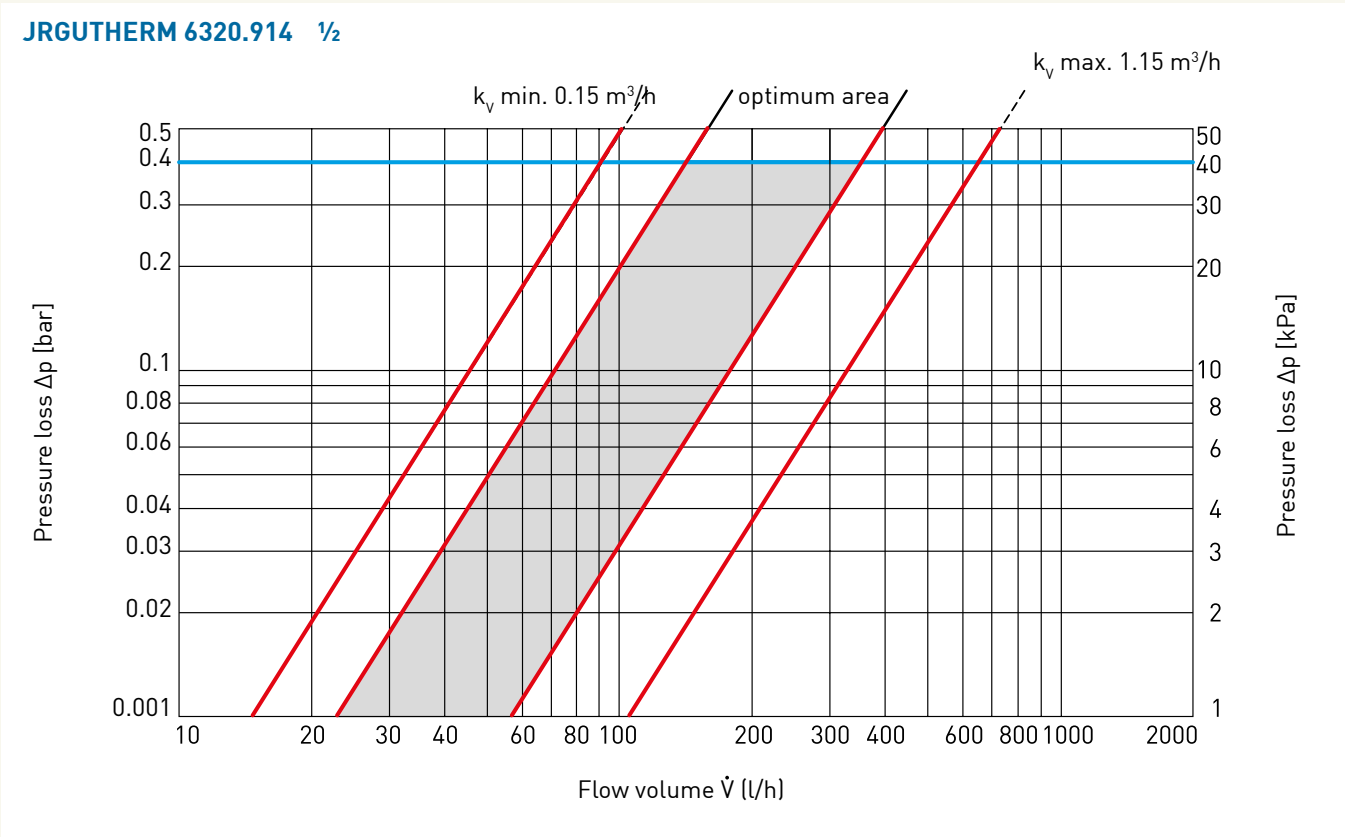
The JRGUTHERM flow regulator is not suitable for use in gravity circuits.

+ Advantages

- Simplifies flow calculations
- No setting up calculations
- Simple regulator operation
- Maintenance-free
- Automatic adjustment of the flow volume (hydraulic balance)
- Shorter heat-up phase after temperature drop
- Energy saving

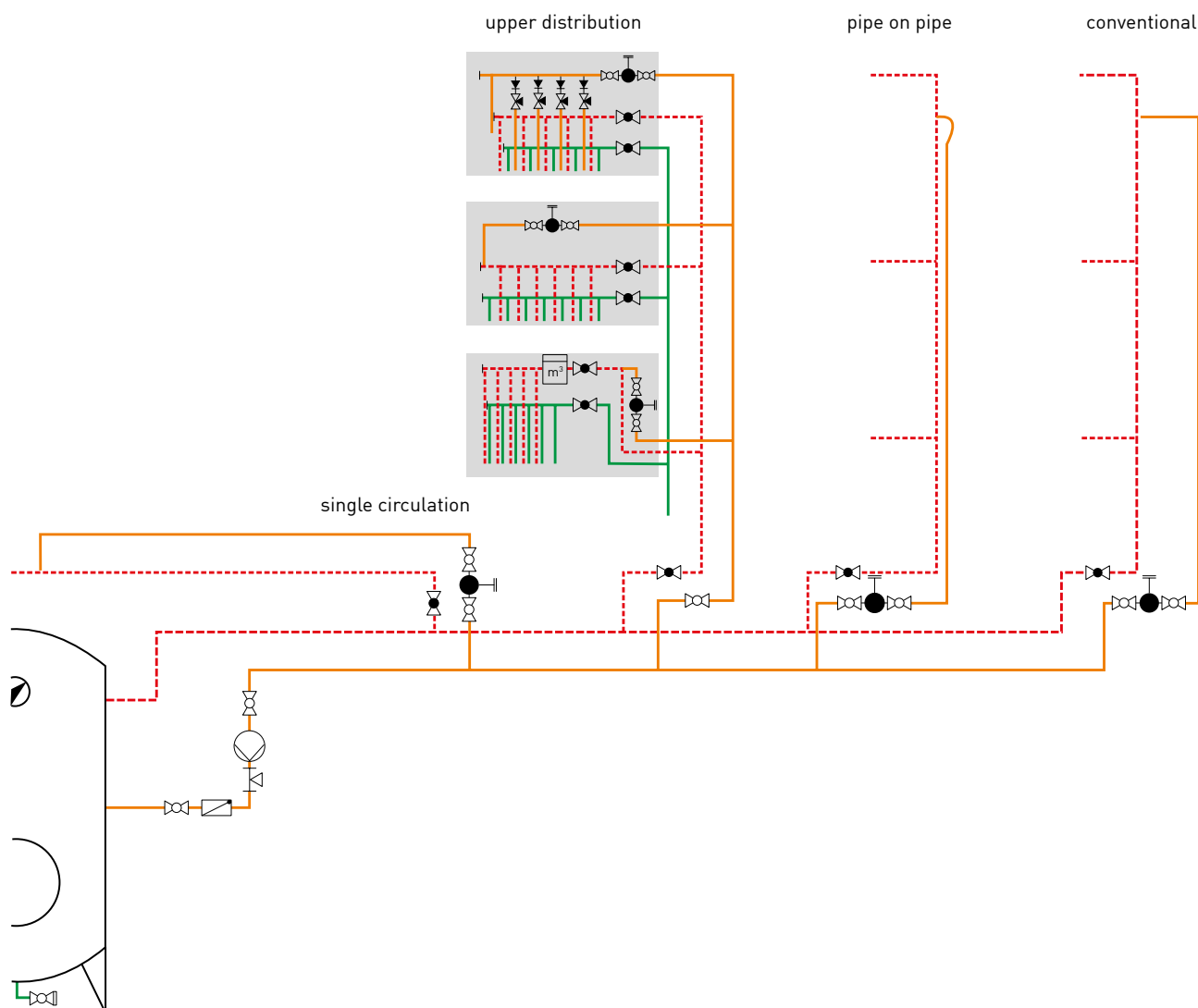


Nomograms



— Maximum admissible differential pressure 0.4 bar!

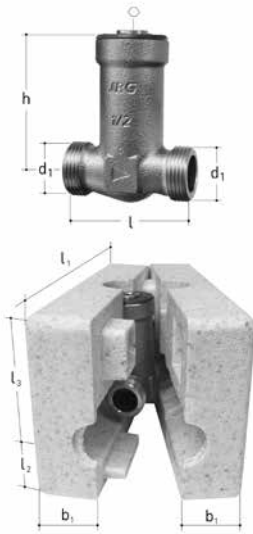
Sample of installation



DIN	Text	JRG Code	SIA
	TWK – cold water – WKR		
	TWW – hot water – WWV		
	TWZ – circulation WW – WWR		
	Stop valve	5000-31	
	Non-return valve	1640-66	
	Swing check valve	1682	
	Adjustable socket	6310	
	JRGUTHERM flow regulator	6320	
	Circulation pump		
	Drain cock	6000-12	
	Circulation collector	5560	
	Water meter	5450	
	Ball valve	6020/23	

JRGUTHERM/Screw connections

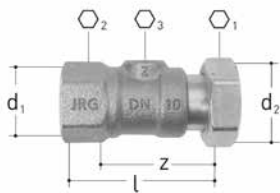
JRGUTHERM Flow regulator, PN 10



- Connection: male thread
- Material: gunmetal
- Factory setting: 57°C (adjustable 36 - 63°C)

GN (inch)	DN (mm)	JRG Code	GF Code	Weight (kg)	d1 G (inch)	h (mm)	l (mm)	⬡	l1 (mm)	l2 (mm)	l3 (mm)	b1 (mm)
½	15	6320.914	350 831 401	0.500	¾	64	60	8	194	38	70	37
¾	20	6320.924	350 831 501	0.519	1	64	60	8	194	38	70	37

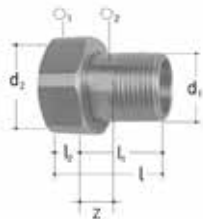
Union, PN 10



- Description: to 3600, 6320, 6325
- Temperature: max. 90°C
- Connection: female thread
- Consisting of: ball valve, lockable, loose nut

GN (inch)	DN (mm)	JRG Code	GF Code	Weight (kg)	d1 Rp (inch)	d2 G (inch)	l (mm)	⬡1	⬡2	⬡3	z (mm)
½	15	8339.240	350 887 710	0.170	½	¾	55	30	27	6	43
¾	20	8339.320	350 887 911	0.260	¾	1	55	37	32	6	47

Union with non return valve



- Material: brass, plastic, EPDM
- Connection: male thread

GN (inch)	DN (mm)	JRG Code	GF Code	Weight (kg)	d1 R (inch)	d2 G (inch)	l (mm)	l1 (mm)	l2 (mm)	z (mm)	⬡1	⬡2
½	15	8208.240	351 055 901	0.090	½	¾	40	34	6	19	30	19
¾	20	8208.320	351 056 001	0.150	¾	1	44	37	7	20	37	24

Adjustment/Setting ranges

Setting of the flow regulator

All flow regulators built into the system must be adjusted to the same scale values. A step less adjustment is possible. The settings value are shown in the table. The calibration of the individual circulation lines takes place automatically.

Transport packing

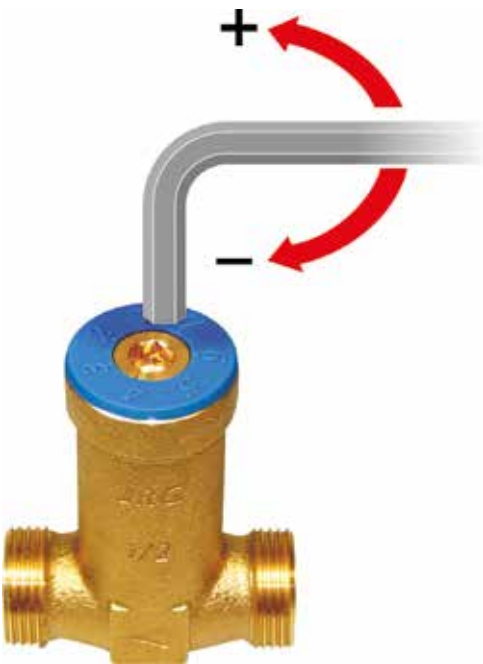


The transport packing of the JRGUTHERM flow regulator serves as thermal insulation after assembly and setting.

Adjusting the flow regulator

Changing the factory setting is done exclusively on the responsibility of the person who undertakes it. The factory setting of the JRGUTHERM flow regulator can be changed as follows:

Put Allen key into the hexagon socket. Turning the key clockwise lowers the temperature, turning it anticlockwise raises it.



JRGUTHERM scale value	Circulation set point value
1	36°C
2	41°C
3	45°C
4	49°C
5	53°C
6 (factory setting)	57°C
7	63°C

Maintenance

- The JRGUTHERM flow regulator operates largely maintenance-free.
- The assembly and operating instructions supplied are to be given to the owner on delivery of the equipment.

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