



## Braukmann D05FT-GB

Pressure reducing valve with balanced seat  
High Temperature design with setting scale

### APPLICATION

According EN 806-2 pressure reducing valves of this type protect household water installations against excessive pressure from the supply. They can also be used for industrial or commercial applications within the range of their specification.

By installing a pressure reducing valve, pressurisation damage is avoided and water consumption is reduced.

The set pressure is also maintained constant, even when there is wide inlet pressure fluctuation.

Reduction of the operating pressure and maintaining it at a constant level minimizes flow noise in the installation.

### APPROVALS

- WRAS approved (AGB-versions 1/2" - 1")
- WRAS in progress (AGB-versions 1 1/4" - 2" and CGB-versions)

### SPECIAL FEATURES

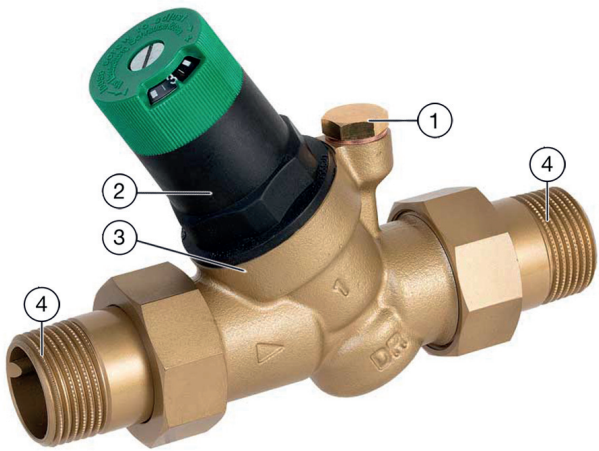
- Suitable for hot water systems
- Inlet pressure balancing – no influence on outlet pressure by fluctuating inlet pressure
- The valve insert is made of dezincification resistant brass and can be fully exchanged
- The outlet pressure is set by turning the adjustment knob
- The set pressure is directly indicated on the set point scale
- The adjustment spring is not in contact with the drinking water
- With internal and external threads 1/2" - 1", with external threads 1 1/4" - 2"



### TECHNICAL DATA

Media	
Medium:	Domestic Hot Water
Connections/Sizes	
Connection sizes:	1/2" - 2"
Nominal sizes:	DN15 - DN50
Pressure values	
Max. inlet pressure:	16 bar
Outlet pressure:	1.5 - 6 bar
Preset outlet pressure:	3 bar
Min. pressure drop:	1 bar
Operating temperatures	
Max. operating temperature:	70 °C permanent 80 °C short-term

## CONSTRUCTION

Overview		Components	Materials
	<b>1</b>	Pressure gauge connection	DZR brass
	<b>2</b>	Spring bonnet with adjustment knob and setting scale	High-quality synthetic material
	<b>3</b>	Housing with pressure gauge connection	Dezincification-resistant brass
	<b>4</b>	Threaded male connections (option AGB)	DZR brass
		Compression fittings (option CGB)	Copper
	<b>Not depicted components:</b>		
		Piston and spindle	Stainless steel
		Adjustment spring	Spring steel
		Valve insert complete with diaphragm and valve seat	Dezincification-resistant brass, EPDM diaphragm
		Pressure gauge (see accessories)	High-quality synthetic material
		Seals	EPDM

## METHOD OF OPERATION

Spring loaded pressure reducing valves operate by means of a force equalising system. The force of a diaphragm operates against the force of an adjustment spring. If the outlet pressure and therefore diaphragm force fall because water is drawn, the then greater force of the spring causes the valve to open. The outlet pressure then increases until the forces between the diaphragm and the spring are equal again.

The inlet pressure has no influence in either opening or closing of the valve. Because of this, inlet pressure fluctuation does not influence the outlet pressure, thus providing inlet pressure balancing.

## TRANSPORTATION AND STORAGE

Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

Parameter	Value
Environment:	clean, dry and dust free
Min. ambient temperature:	5 °C
Max. ambient temperature:	55 °C
Min. ambient relative humidity:	25 % non-condensing
Max. ambient relative humidity:	85 % non-condensing

## INSTALLATION GUIDELINES

### Setup requirements

- Horizontal and vertical installation position possible
  - In vertical installation position spring bonnet with adjustment knob facing upwards
  - Vertical installation may require increased maintenance
- Install shut-off valves
- The installation location should be protected against frost and be easily accessible
  - Pressure gauge can be read off easily
  - Simplified maintenance and cleaning
- To guarantee perfect functioning, a filter must be installed upstream of the PRV
- Provide a straight section of pipework of at least five times the nominal valve size after the pressure reducing valve (in accordance with EN 806-2)
- Requires regular maintenance in accordance with EN 806-5



Pressure drop characteristics

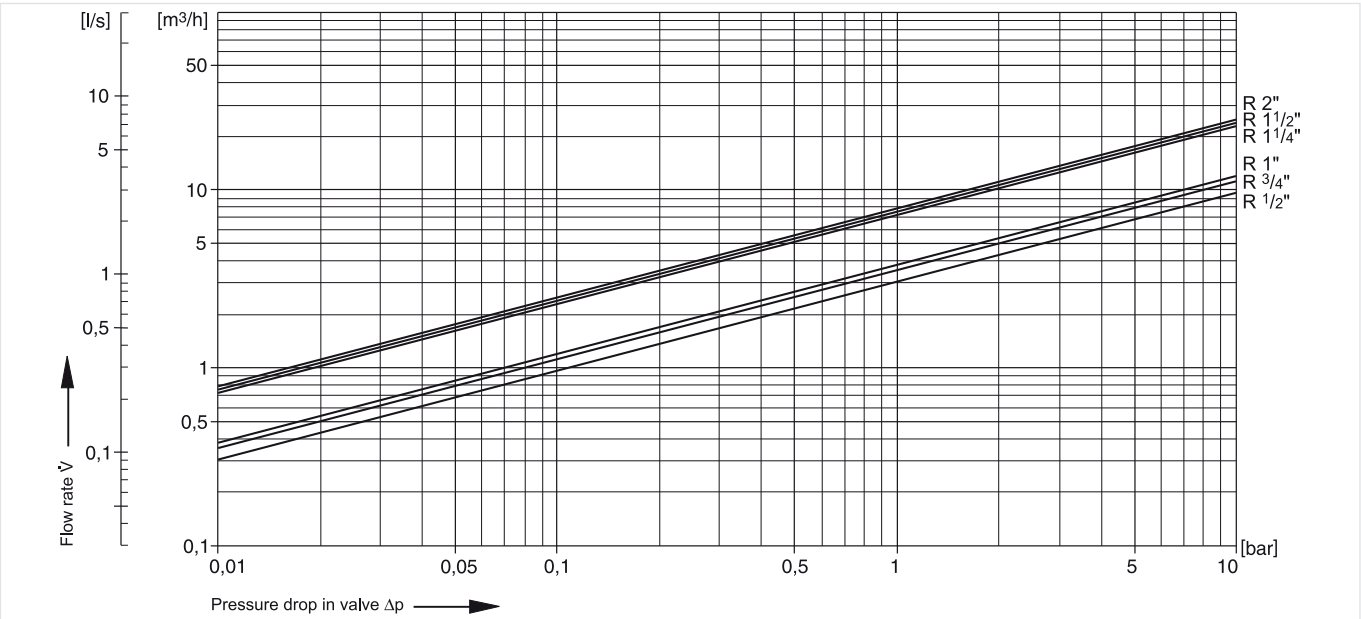
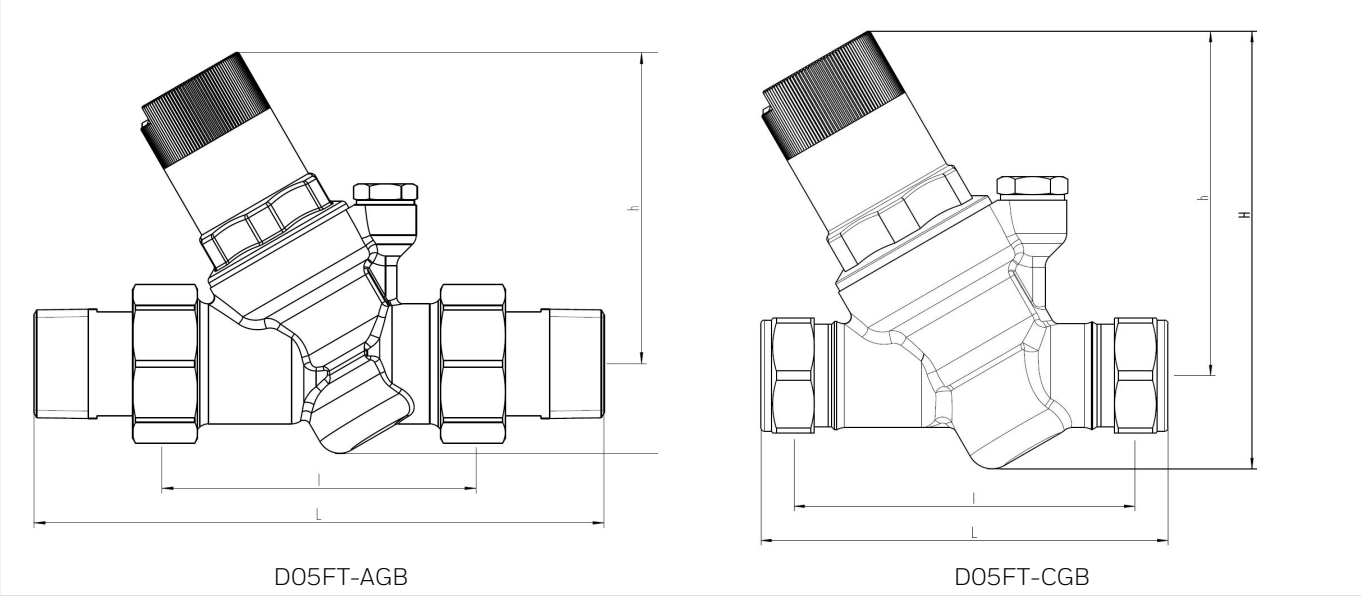


Fig. 2 Pressure drop within the valve in dependency of the flow rate and the used connection size

DIMENSIONS

Overview



Parameter			Values					
Connection sizes:	AGB	R	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	CGB	Ra Ø	15.2	22.2	-	-	-	-
Nominal size diameter:		DN	15	20	25	32	40	50
Weight:	AGB	kg	0.9	1.0	1.6	3.0	3.8	5.2
	CGB	kg	0.8	0.9	-	-	-	-
Dimensions:	AGB	L	155	163	176	207	216	257
	CGB	L	144	144	-	-	-	-
		l	95	95	97	115	120.5	140
		H	123	123	123	178	178	178
		h	96	96	96	147	147	147

Note: All dimensions in mm unless stated otherwise.

## ORDERING INFORMATION

The following tables contain all the information you need to make an order of an item of your choice. When ordering, please always state the type, the ordering or the part number.

### Options

The valve is available in the following sizes: 1/2", 3/4", 1", 1 1/4", 1 1/2" and 2".





- standard
- not available

		D05FT-...AGB	D05FT-...CGB
Connection type:	external threaded connection set on in- and outlet	•	–
	compression fittings	–	•

Note: ... = space holder for connection size

Note: Ordering number example for 1 1/4" and type AGB valve: D05FT-11/4AGB

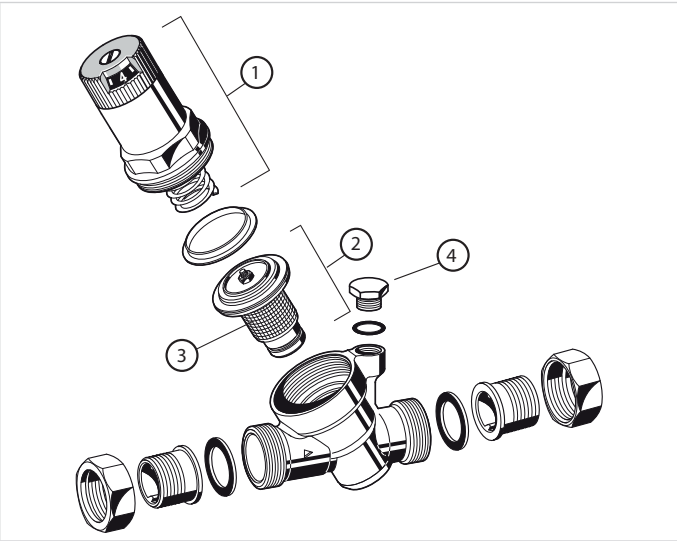
### Accessories

	Description	Dimension	Part No.
	<b>M38T-A10</b> <b>Pressure gauge</b>		
	Housing Ø 50 mm, below connection thread G 1/4"		
	Range: 0 - 10 bar		M38T-A10
	<b>DS05</b> <b>Insulation shells</b>	1/2"	DS05-1/2
		3/4"	DS05-3/4
		1"	DS05-1
		1 1/4"	DS05-11/4
		1 1/2"	DS05-11/2
		2"	DS05-2
	<b>ZR06K</b> <b>Double ring wrench</b>		
	For removal of spring bonnet and filter bowl		
			ZR06K
	<b>VST06AGB</b> <b>Connection set</b>		
	Threaded connections		
		1/2"	VST06-1/2AGB
		3/4"	VST06-3/4AGB
		1"	VST06-1AGB
		1 1/4"	VST06-11/4AGB
		1 1/2"	VST06-11/2AGB
		2"	VST06-2AGB

Spare Parts

Pressure Reducing Valve D05FT, from 2018 onwards

Overview



	Description	Dimension	Part No.
1	Spring bonnet complete		
		1/2" - 1"	0901515
		1 1/4" - 2"	0903890
2	Valve insert complete		
		1/2" - 1"	D05FA-1/2T
		1 1/4" - 2"	D05FA-1 1/4T
3	Replacement filter insert		
		1/2" - 1"	ES05F-1/2A
		1 1/4" - 2"	ESD05FS
4	Hexagon-plug with copper sealing-ring R1/4" (5 pcs.)		
		1/2" - 2"	S06M-1/4



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