



- GST® is a VP305-1 DVGW safety device. It blocks the gas flow automatically when the flow rate through the device exceeds its minimum trip threshold (in the event of tampering, accidentally disconnecting the system, e.g. in a fire or if the pipes burst).
- When in the closed position, the mechanism allows a small leak through the reset hole. When the break has been repaired, the hole balances the pressure in the two chambers upstream and downstream, resetting it automatically.
- Available as a single fitting or, thanks to its compactness, as a device built into the valves.
- Does not require maintenance.
- Take care when choosing the GST and its nominal flow rate to ensure that it works correctly and does not close accidentally.



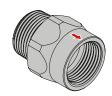
Material					
Body	Internal cartridge				
Zink plated Body	Aluminium and Polymer				

TECHNICAL SPECIFICATIONS

Reference standards	Pressure	Temperature	Pressure drop	fs min.	fs.max.	Overflow value VL	Heat resistance	Application
DVGW VP305-1:12/2007 DVGW TRGI 2008 DVGW TRF 2012	15-100 mbar	-20 °C +60 °C	≤ 0.5 mbar (50 Pa)	1.30	1.45	37.5 l/h at 100 mbar (gas)	External: 925 °C for 60' / Internal: trip at 120 °C / 200 °C for 10'	For all types of gas as specified in EN 437 and DVGW G260/1 (Methane, Butane, Propane)

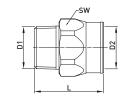
VERSIONS AND CODES

GST® fitting - male/female threaded version



fs 1.30-1.45







Code	DN	GS m³/h	9	D1	D2	L1	SW	Pack
GS01110100	15	V _{GAS} =1.6		R1/2"	Rp1/2"	52	27	20
GS01210100	15	V _{GAS} =2.5		R1/2"	Rp1/2"	52	27	20
GS02210200	20	V _{GAS} =2.5		R3/4"	Rp3/4"	52	32	15
GS02310200	20	V _{GAS} =4.0		R3/4"	Rp3/4"	54	41	15
GS03210300	25	V _{GAS} =2.5		R1"	Rp1"	54	41	10
GS03310300	25	V _{GAS} =4.0		R1"	Rp1"	54	41	10
GS03410300	25	V _{GAS} =6.0		R1"	Rp1"	54	41	10
GS04510400	32	V _{GAS} =10.0		R1"1/4	Rp1"1/4	67	50	6
GS05610500	40	V _{GAS} =16.0		R1"1/2	Rp1"1/2	76	60	6
GS06610600	50	V _{GAS} =16.0		R2"	Rp2"	80	70	6

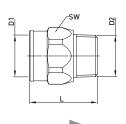
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fs 1.30-1.45

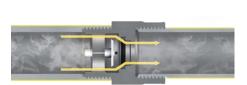


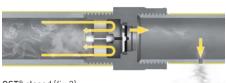


Code	DN	GS m³/h	8	D1	D2	L1	SW	Pack
GS01120100	15	V _{GAS} =1.6		Rp1/2"	R1/2"	52	27	20
GS01220100	15	V _{GAS} =2.5		Rp1/2"	R1/2"	52	27	20
GS02220200	20	V _{GAS} =2.5		Rp3/4"	R3/4"	52	32	15
GS02320200	20	V _{GAS} =4.0		Rp3/4"	R3/4"	54	41	15
GS03220300	25	V _{GAS} =2.5		Rp1"	R1"	54	41	10
GS03320300	25	V _{GAS} =4.0		Rp1"	R1"	54	41	10
GS03420300	25	V _{GAS} =6.0		Rp1"	R1"	54	41	10
GS04520400	32	V _{GAS} =10.0		Rp1"1/4	R1"1/4	67	50	6
GS05620500	40	V _{GAS} =16.0		Rp1"1/2	R1"1/2	76	60	6
GS06620600	50	V _{GAS} =16.0		Rp2"	R2"	80	70	6

OPERATION AND TECHNOLOGIES

When inserted in the system, the GST® remains inactive (FIG.1) until the closure flow rate is reached (Vs). As soon as the flow rate reaches the closure valve (Vs) for any accidental reason, the GST® closes instantly (FIG.2). It is reset automatically by the bypass orifice on the cut-off, and the overflow VL that this creates balances the pressure upstream and downstream from the device when the conditions that caused the GST® to close have been removed (FIG.3).







GST® open (fig.1)

GST® closed (fig.2)

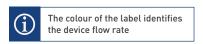
Automatic reset (fig.3)

	V _{GAS}	Nominal gas flow rate of GST® (d=0,64)						
Legend	fs	Closure factor ($fs=Vs/V_{GAS}$) fs min. = 1.30 fs max. = 1.45						
۳	Vs	Gas closure flow rate (d=0,64) $Vs = V_{GAS} x fs$						
	VL	Flow rate through the bypass orifice ≤ 37.5 l/h at 100 mbar (gas)						

GST IDENTIFICATION MARKING

In accordance with the standards, the GST® is supplied with a label that describes its technical specifications (DVGW VP 305-1).

- Device nominal flow rate (coloured identification)
- Pressure range "15 mbar 100 mbar"
- Gas flow direction (arrow)
- Nominal diameter
- Type of GST® (M/K)
- "DVGW" marking
- Installation position





GS m³/h

V_{GAS}=1.6

V_{GAS}=2.5

V_{GAS}=4.0

V_{GAS}=6.0

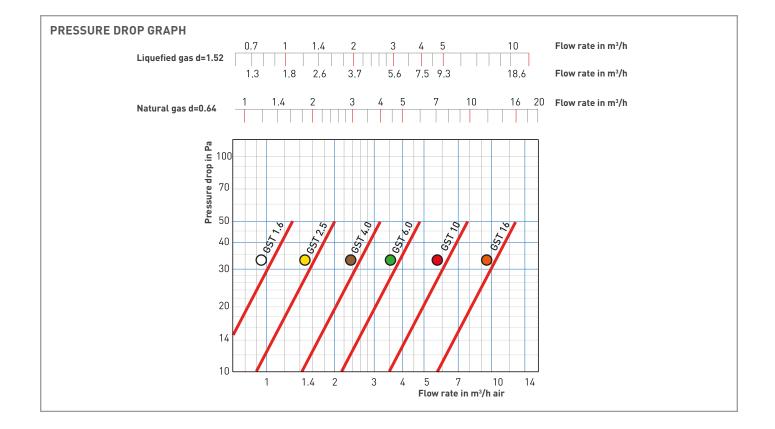
V_{GAS}=10.0

V_{GAS}=16.0

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In support of our policy of continuous product improvement we reserve the right to change materials and specifications without notice. Drawings, where used, are not to scale. All dimensions are in millimetres and sizes given are approximate. Where possible, technical MSDS data sheets are made available on the website. All products should be installed and used in accordance with manufacturer's instructions provided. Warning: products may be the subject of realistered designs and patents. Refer to website for terms and conditions on warranty.





ITEM SPECIFICATIONS

GST: Excess flow device

VP305-1 DVGW safety device.

It blocks the gas flow automatically, with a trip range from fs min. 1.30 to fs. max 1.45. Pressure drop < 0.5mbar; automatic reset with a flow of 37.5 l/h at 100 mbar (gas).

Threaded connections. Available as a single fitting or, thanks to its compactness, as a device built into the valves does not require maintenance.

For all types of gas in accordance with EN 437 and DWG G260/1 (Methane, Propane and Butane).

Pressure range 15 - 100 mbar.

Working temperature -20°C + 60°C.

