



Flow Rate Controller, flow control system for gases

- Reliable and robust system
- Reduced interfaces
- Orifice plate and actuator in one
- Easy operation
- Fit for stand-alone operation

Type 8750 can be combined with...









Type 8400

System ELEMENT

Valve system

Type 8644

Valve island

The flow rate controller, Type 8750, is a system to measure and control gases using the differential pressure principle. The reliable and robust system consists of an ELEMENT continuous control valve, Type 2301, with the compact process controller Type 8693 and two pressure transmitters, Type 8323. These components are supplied within an assembled system including a special body.

The Bürkert flow rate controller does not need a separate flow meter. The control valve serves as orifice plate. From the pressure difference across the valve and the given density and temperature a nominal flow can be calculated. Therefore the flow characteristics of the valve are given to the process controller. The volume flow can then be adjusted by changing the stroke of the control valve. So all components of the control loop build an integrated system.

The flow rate controller offers a high repeatability and large measuring range. With the combination of orifice plate and control valve the pressure drop is reduced in comparison to conventional solutions. With the variable orifice of the control valve the measurement range is increased. Low assembly costs and easy commissioning are further advantages of this unique system.

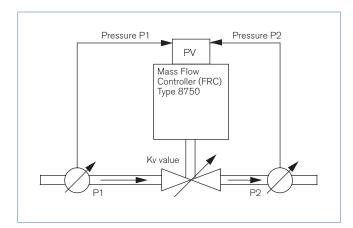
MFC 8712 Mass Flow Controller

Temperature sensor

Complete system Port size Media Air, Nitrogen, Carbondioxide, other gases Media temperature 0 to 80 °C Ambient temperature 0 to 55 °C Control rmedia Instrument air acc. to DIN ISO 8573-1 Supply pressure Pilot air ports Threaded ports G 1/8 stainless steel Process connection Flange connection acc. to DIN EN 1092-1	Technical Data	
Port size DN15 to 100 Media Air, Nitrogen, Carbondioxide, other gases Media temperature 0 to 80 °C Ambient temperature 0 to 55 °C Control rmedia Instrument air acc. to DIN ISO 8573-1 Supply pressure Filot air ports Process connection Flange connection acc. to DIN EN 1092-1 other connections on request Process controller Power supply 24 V DC +/- 10% Ripple 10%; no technical direct current Electrical connection Power supply: circular connector M12x1, 4-pins In/output signal: circular connector M12x1, 8-pins / Bus Internal: circular connector M8x1, 4-pins Protection class IP65 / IP67 acc. to EN 60529 Bus communication Pressure transmitter Measurement range 0-100 mbar to 0-16 bar (standard: 0-10 bar) Measurement priniple Piezoresistive Measurement error 4 = 0,5% of full scale Materials Body Stainless Steel Process controller PPS, Stainless Steel Pressure transmitter housing Seal Seat PTFE, Stainless Steel on request PTFE-V-Seals	100111110111111111111111111111111111111	
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In/output signal: circular connector M12x1, 8-pins / Bus Internal: circular connector M8x1, 4-pins Protection class IP65 / IP67 acc. to EN 60529 Bus communication Profibus DPV1, DeviceNet Pressure transmitter Measurement range 0-100 mbar to 0-16 bar (standard: 0-10 bar) Measurement priniple Piezoresistive <= 0,5% of full scale Materials Body Stainless Steel Actuator housing PPS, Stainless Steel Process controller PPS, Stainless Steel Pressure transmitter housing Seal Seat PTFE, Stainless Steel on request Packing PTE-V-Seals	Ripple	10%; no technical direct current
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Process controller Pressure transmitter housing Seal Seat PTFE, Stainless Steel on request Packing PTFE-V-Seals	Body	Stainless Steel
Pressure transmitter housing Seal Seat PTFE, Stainless Steel on request Packing PTFE-V-Seals	Actuator housing	PPS, Stainless Steel
housing Seal Seat PTFE, Stainless Steel on request Packing PTFE-V-Seals	Process controller	PPS, Stainless Steel
Seal Seat PTFE, Stainless Steel on request Packing PTFE-V-Seals	Pressure transmitter	Stainless Steel
Packing PTFE-V-Seals	housing	
	Seal Seat	PTFE, Stainless Steel on request
Sensor body Stainless steel	Packing	PTFE-V-Seals
•	Sensor body	Stainless steel

burkert

FRC Schematic





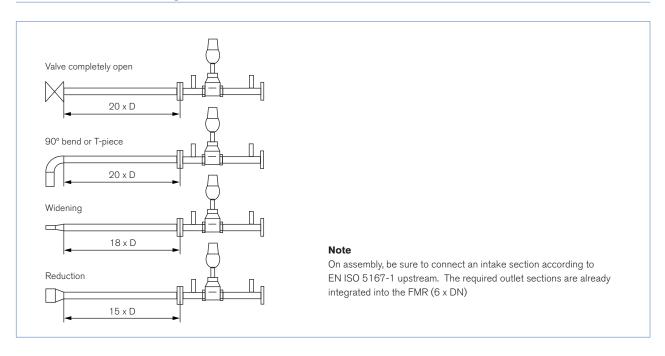
Determination of k, values

Pressure drop	k _v value for gas [m³/h]
Subcritical $p_2 > \frac{p_1}{2}$	$=\frac{\mathbf{Q}_{N}}{514}\sqrt{\frac{T_{1}\rho_{N}}{p_{2}\Delta p}}$
Supercritical $p_2 < \frac{p_1}{2}$	$=\frac{Q_{\scriptscriptstyle N}}{257p_{\scriptscriptstyle 1}}\sqrt{T_{\scriptscriptstyle 1}\rho_{\scriptscriptstyle N}}$

k_v	Flow coefficient	$[m^3/h]^{6)}$
Q_N	Standard flow rate	[m _N ³ /h] ⁷⁾
p_1	Inlet pressure	[bar] ⁸⁾
p_2	Outlet pressure	[bar] ⁸⁾
Δp	Differential pressure p ₁ -p ₂	[bar]
ρ	Density	[kg/m³]
$\rho_{\scriptscriptstyle N}$	Standard density	[kg/m³]
T,	Temperature of medium	[(273+t)K]

- e) measured for water at 20°C, Δp =1 bar, via the device
- ⁷⁾ Standard conditions at 1.013 bar and 0 °C (273K)
- 8) Absolute pressure

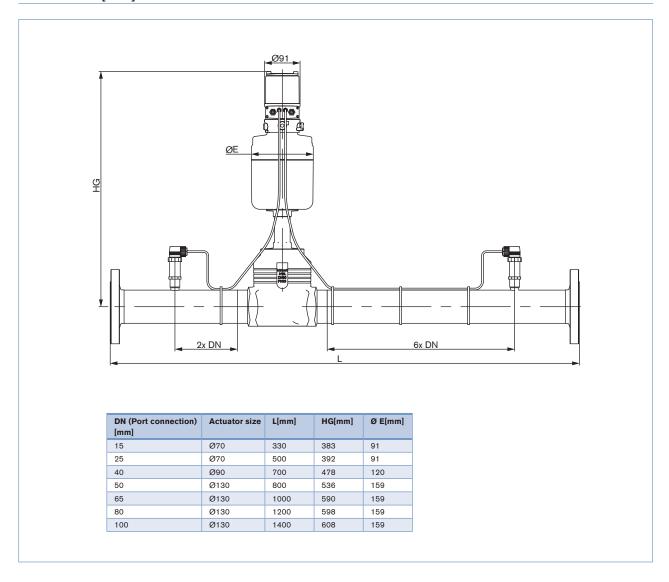
Intake section according to EN ISO 5167-1



For highest precision consider the intake sections according to EN ISO 5167-1, the outlet section is integrated in the body .



Dimensions [mm]





Ordering chart for valves

Flange acc. to DIN EN 1092-1, PTFE seal

	[m m]	size			Air flow rate at bar		
Port size [mm]	Seat DN [i	Actuator s	Kvs value	Pressure range	Qmax [Nm³/h]	Qmin [Nm³/h]	Item no.
DN15	15	M (70mm)	4.3	0 - 10 bar	350	20	280 436
DN25	25	M (70mm)	12.0	0 - 10 bar	900	40	280 437
DN40	40	N (90mm)	17.5	0 - 10 bar	1300	70	280 438
DN50	50	P (130mm)	37.0	0 - 10 bar	2900	120	280 439
DN65	65	P (130mm)	65.0	0 - 10 bar	5500	200	280 440
DN80	80	P (130mm)	100	0 - 10 bar	8500	350	280 441
DN100	100	P (130mm)	140	0 - 6 bar	12000	500	280 442

¹⁾ Kvs represents the maximum flow capacity of a control valve series. The Kv value [m³/h] is measured to DIN EN 60534-2-3 with water (5 - 40 °C) and a pressure drop of 1 bar over the valve.

Note

Please ask for advice when sizing the flow rate controller FRC. Contact your local sales centre

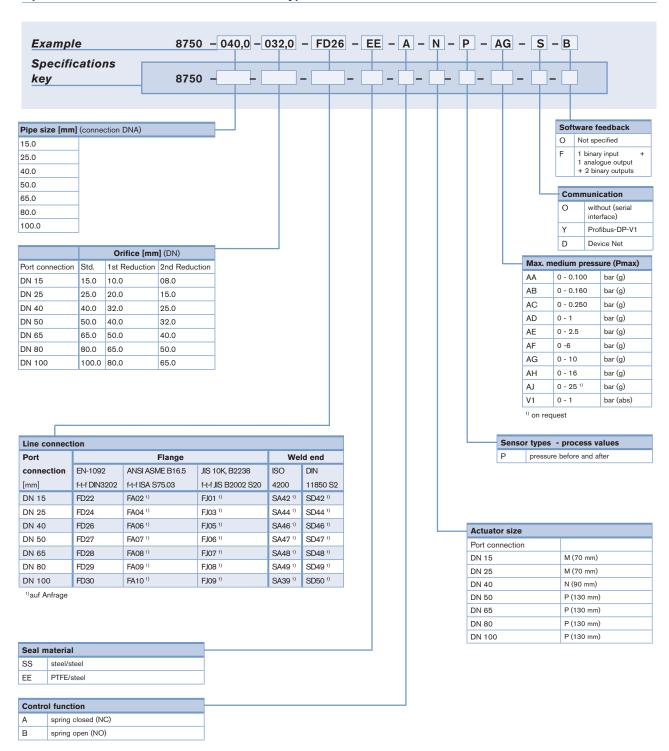
Further versions on request

- Port connection
- Seat reductions
- Reduced pressure range
- Sealing Steel/Steel
- · Communication via Fieldbus

²⁾ The air flow rates mentioned above are given as a reference. The values refer to air with a temperature of 20 °C. The condition for the min. and max. limits is determined at 10 and 90% positions and turbulent air flow.



Specification code for Flow Controller Type 8750





Specification sheet for Type 8750

Please fill out and send to your local Bürkert Sales Centre* with your inquiry or order

You can fill out
You carrill directly
the fields directly

Note

Company		Contac	ct person			
Customer no.		Depart	ment			
Address		Tel./Fa	х			
Postcode/Town		E-Mail				
= mandatory fields to fill out		Quantity	,		Required delive	rv date
Operating data		Quantity		N	required delive	ily uate
Site of control						
Measuring and control task						
Pipeline DN			PN			
Pipe material						
Process medium						
Type of media	Gas					
Standard density		Kg/Nm³			11.5	
Flow rate (QN [Nm³/h]) 2)	Min	S:	tandard	Max	Unit	
Temperature at valve inlet T1						
Absolute pressure at valve inlet P1				[
Absolute pressure at valve outlet P2						
Valve features						
Standard connection (flange)	☐ DIN	ANSI	□ JIS	other Version	ons	
Standard connection (flange) Seat sealing material	Metal	PTFE	□ JIS	other Version	ons	
Standard connection (flange) Seat sealing material Function		PTFE NO 3)	SIL [other Version	ons	
Standard connection (flange) Seat sealing material Function Max. sound level accepted	Metal	PTFE	_	other Version	ons	
Standard connection (flange) Seat sealing material Function Max. sound level accepted Pilot pressure	Metal NC 3)	PTFE NO 3) dB (A)	☐ JIS min.	other Version	ons	max.
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Standard connection (flange) Seat sealing material Function Max. sound level accepted Pilot pressure NC: resting position with spring closed; SFB: resting position Controller features Communication Analogue signals for setpoint/output	Metal NC 3) n with spring oper Pres	PTFE NO 3) dB (A) ssure measuring range 0 - 100 mbar 0 - 160 mbar 0 - 250 mbar 0 - 1 bar	min. rement	other Version	ons	max.
Standard connection (flange) Seat sealing material Function Max. sound level accepted Pilot pressure NC: resting position with spring closed; SFB: resting position Controller features Communication Analogue signals for setpoint/output Input 0/4 - 20 mA / 0 - 5/10V + 1 Binary Output 0/4 - 20 mA / 0 - 5/10V + 2 Binary	Metal NC 3) n with spring oper Pres	PTFE NO 3) dB (A) ssure measuring range 0 - 100 mbar 0 - 160 mbar 0 - 250 mbar 0 - 1 bar 0 - 2.5 bar	min. rement	other Version	ons	max.
Standard connection (flange) Seat sealing material Function Max. sound level accepted Pilot pressure Pilot pressure Controller features Communication Analogue signals for setpoint/output Input 0/4 - 20 mA / 0 - 5/10V + 1 Binary	Metal NC 3) n with spring oper Pres	PTFE NO 3) dB (A) ssure measuring range 0 - 100 mbar 0 - 160 mbar 0 - 250 mbar 0 - 1 bar	min. rement	other Version	ons	max.
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