



Type 8750 can be combined with...





Valve island

Ball valve

The 8750 Flow Controller serves to measure and control volumetric flow rate on the differential pressure principle. It consists of a 2712 control valve with an 8630 TopControl, two 8323 pressure transmitters and an optional 8400 temperature transmitter. The overall precision is  $\pm 3\%$  of full scale. These components together form a module. The sensors are integrated into the spool piece. To cover a wide variety of control applications, a broad spectrum of nominal diameters and seat combinations are available. The valve trims may be exchanged as required. Regarding the inlet to the device, EN ISO 5167-1 must be observed during assembly of the module. The outlet dimensions are already included in the system

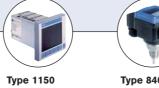
The pressure drop over the control valve (acting as a restriction) is measured continuously by the two pressure sensors. This pressure difference and the valve flow characteristic are the parameters for determination of the volumetric flow through the control valve, i.e. for the process value. This measured volumetric flow is compared with the setpoint, evaluated in a PID controller and set on the positioner as the new setpoint. The real flow characteristic curve for the current control valve is stored point-for-point in 5 % steps in the memory of the TopControl.

#### Applications

- · Air flow control system for the pneumatic conveying of granular materials (grain, powder, etc.)
- · Control system for propellents (gas or air) in pigging systems
- · Control of combustion gases and air in industrial furnaces.

# Flow Controller, flow control system for gases

- Highly cost effective solution, thanks to the integrated system
- Reliable, robust system
- Automatic process tune
- Simple to operate
- Stand-alone operation possible



Controller



Type 8400 Temperature sensor

Technical data	
FMR (complete system)	
Media	Air other gases (liquid media and steam on request)
Medium temperature	0 to 80 °C
Medium pressure	Up to 16 bar pressure sensor range
Ambient temperature	-10 to +50 °C
Precision	±3% of full scale
Control valve Type 2712	
Materials	
Body material	Cast 316L
Actuator material	PA (polyamide)
Seat seal material	PTFE/steel or steel/steel
Packed gland (with silicone grease)	PTFE V-rings with spring compensation
Control cone	Parabolic; equipercentile
Seat reduction	Different Kvs-values for each connection
Intake and outlet sections	
Process connection 1)	Flange acc. to DIN EN 1092-1, DN15 bis DN100, 1) others on request
Material	1.4301
Measurement point for $p_1$ , $p_2$ and T	G1/2 internal thread
Measurement section acc. to	DIN EN 60534-2-3
Positioner Type 8630	
Body material	PPE/PA
Operating voltage	24 VDC ±10%
residual ripple	10%; not industrial DC
Electrical connection	Multipole circular connector, male
Setpoint specification	0/4 to 20 mA, 0 to 5/10 V
Degree of protection	IP65 acc. to EN 60529
Control medium	Instrument air acc. tp DIN ISO 8573-1
Intrinsic air consumption	0 l/min
Control air temperature	0 to +50 °C
Supply pressure	5.5 to 7 bar (up to DN65), 5 to 6 bar (DN80 - DN100)
Operating panel	3 function keys
Display	8 digit LC-display
Options	Binary input, analog feedback
	Binary output (alarm), bus communication
Bus communication	Profibus DP-V1 or DeviceNet
Conformity	Acc. to CE EMV-2004/108/EG

# Process Valves, 5 Caulside Drive, Antrim, Northern Ireland, BT41 2DU www.process-valves.com, sales@pneutrol.com, Tel +44 (0) 28 9448 1809



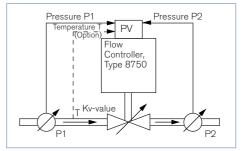
#### **Technical data**

Pressure transmitter Type 832	3							
Measurement range	From 0 - 100 mbar to 0 - 16 bar							
	(other pressure ranges on request)							
Measurement principle	Piezoresistive							
Measurement method	Relative pressure measurement							
Measurement error	≤ 0.5% of full scale							
Overload limits	At least 5 x full scale							
Bursting pressure	At least 5 x full scale							
Output signal (2-conductor system)	Standard signal 4 to 20 mA							
Body material	Stainless steel 1.4301							
Wetted parts	Stainless steel 1.4571							
Temperature transmitter Type	8400 (optional)							
Measurement range	- 40 to +125 °C							
Connection	G 1/2							

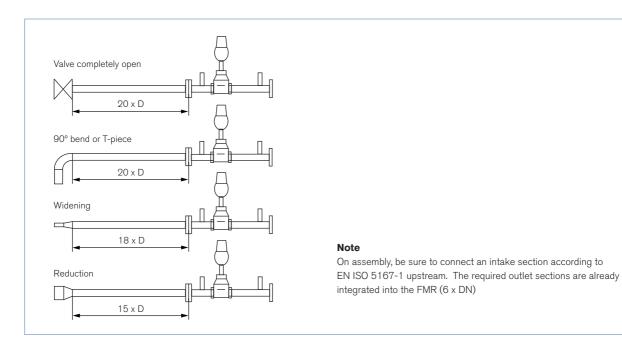


#### Action diagram of the FMR

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#### Intake section according to EN ISO 5167-1



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## Flow capacity (Kvs)<sup>1)</sup> and range of air flow rate<sup>2)</sup> - examples

Port size	Seat DN	Kvs		v rate at p2=3 bar(g)		v rate at p2=1 bar(g)	Air flow rate at p1=0.125 and p2=0.060 bar(g)			
	[mm]	[m³/h]	Q <sub>max</sub> [Nm³/h]	Q <sub>min</sub> [Nm³/h]	Q <sub>max</sub> [Nm³/h]	Q <sub>min</sub> [Nm³/h]	Q <sub>max</sub> [Nm³/h]	Q <sub>min</sub> [Nm³/h]		
	8	2.1	150	10	90	10	10	0.4		
DN15	10	3.1	250	10	150	15	18	0.5		
	15	4.3	375	15	220	15	25	0.8		
	15	5.3	400	15	250	15	30	0.8		
DN25	20	7.2	550	25	320	15	40	1.3		
	25	12.0	900	35	550	20	70	2		
	25	13.6	1100	40	650	25	80	2.5		
DN40	32	20.2	1500	50	900	30	110	3		
	40	23.8	1800	70	1100	40	130	4		
	32	21.0	1600	60	950	35	120	4		
DN50	40	24.6	1900	70	1100	40	140	4		
	50	37.0	2900	100	1700	60	210	6		
	40	17.5	1200	60	700	30	80	3		
DN65	50	26.0	2000	100	1200	50	140	6		
	65	52.0	4500	130	2700	80	320	10		
	50	42.0	2500	100	1500	50	200	6		
DN80	65	70.0	5000	150	3000	90	350	10		
	80	100.0	8500	250	5000	140	600	18		
	65	75.0	5500	150	3000	90	380	10		
DN100	80	115.0	9000	250	5500	150	650	18		
	100	140.0	12000	350	7000	210	850	25		

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

<sup>2)</sup>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.

#### Note

Please ask for advice in sizing the flow controller FMR. Contact your local sales centre

# burkert

# Specification code for Flow Controller Type 8750

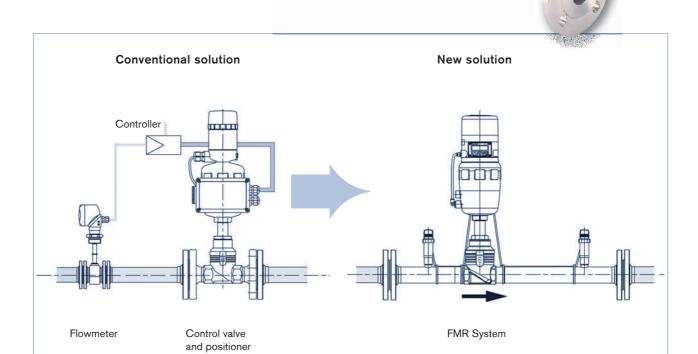
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50	50.0	40.0															AE		0 - 2.5	5	bar (g)
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ne co port m] \\15 \\25 \\40 \\50 \\50 \\50 \\50 \\50 \\50 \\100 \	Innection       EN-10       ft-f Dil       FD22       FD24       FD26       FD27       FD28       FD29       FD30       ffrage	92	0 65 ANSI ASME E f-t-f ISA S75.0 FA02 <sup>1)</sup> FA04 <sup>1)</sup> FA06 <sup>1)</sup> FA07 <sup>1)</sup> FA08 <sup>1)</sup> FA09 <sup>1)</sup>	.0 nge 316.5 33	f-t-f JIS B FJ01 <sup>1)</sup> FJ03 <sup>1)</sup> FJ05 <sup>1)</sup> FJ06 <sup>1)</sup> FJ07 <sup>1)</sup> FJ08 <sup>1)</sup>		ISO           4200           SA42 <sup>1</sup> )           SA44 <sup>1</sup> )           SA46 <sup>1</sup> )           SA47 <sup>1</sup> SA48 <sup>1</sup> )           SA48 <sup>1</sup> )	DIN           11850 (1)           SD42 (1)           SD44 (1)           SD46 (1)           SD46 (1)           SD48 (1)           SD49 (1)           SD49 (1)							Port co DN 15 DN 20 DN 25 DN 32 DN 40 DN 50 DN 65 DN 80	P T	AH AJ V1 <sup>1)</sup> o pr pr pl	n req <b>/pes</b> ressur	0 - 16 0 0 - 25 0 - 1 • prove • beform •	6 5 <sup>1)</sup> cess v re and a re and a	bar (g) bar (g) bar (g) bar (abs)

Process Valves, 5 Caulside Drive, Antrim, Northern Ireland, BT41 2DU www.process-valves.com, sales@pneutrol.com, Tel +44 (0) 28 9448 1809

## **Target segments**

#### **Application areas**

- Provides a proven solution for pneumatic conveyor systems of granulate material in the chemical, food, plastic and pharmaceutical industries.
- Provides an effective solution for piston speed control in pigging systems in the chemical, paint, pharmaceutical, cosmetic, food and brewerage industries.
- Provides a cost-effective solution for gas/air flow control systems in water purification, power and waste incineration plants, ceramic industries, metal refineries and industrial furnaces.



#### Advantages

- All in one compact system
- Stand-alone operation, no remote device is required

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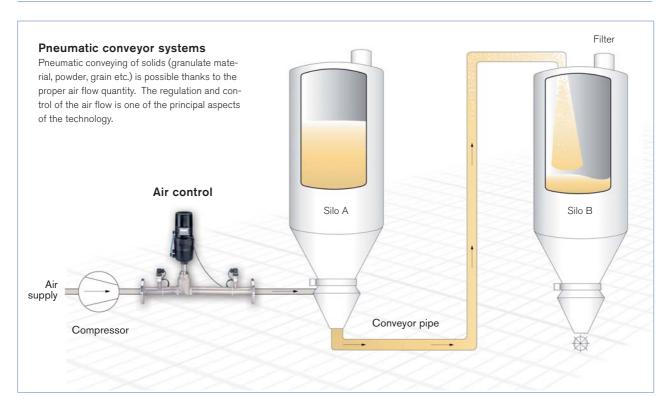
Reliable and robust system

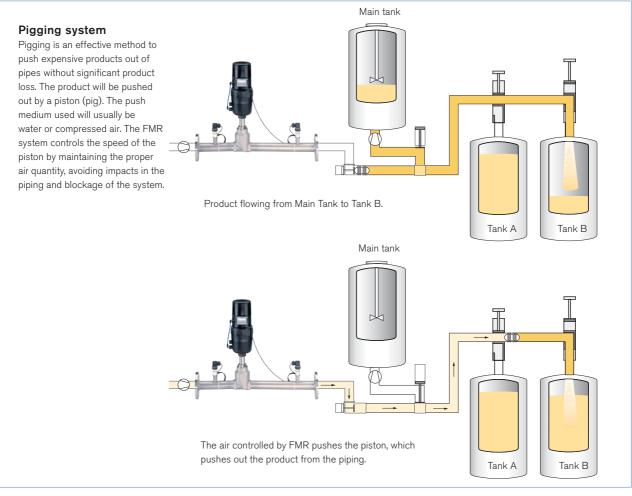
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#### **Application examples**

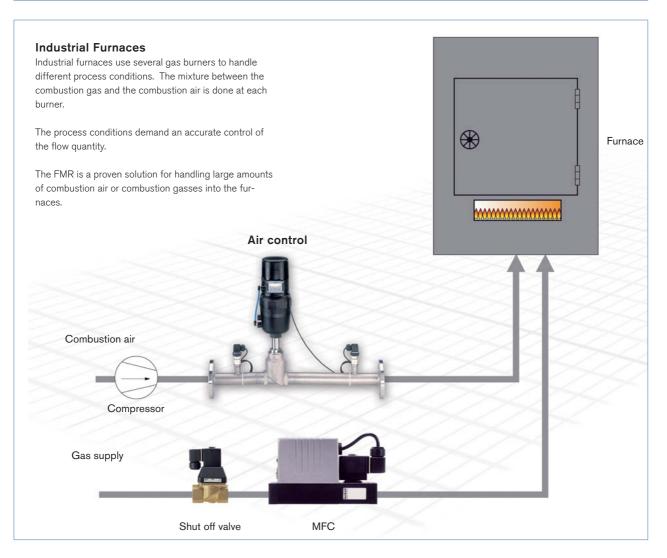




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## **Application examples**

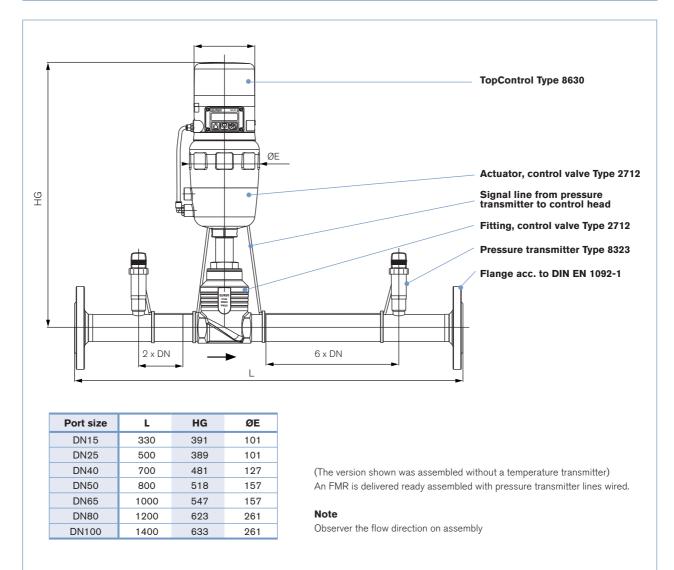


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## Dimensions [mm]



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Note You can fill out the fields directly in the PDF file before printing out the form.

## Specification sheet for Type 8750

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

Flease in out and send to your local L	Juikeit	Jales Cel	itie with	your mq		IUCI		befor	
Company			Contact p	person				out th	
Customer no.			Departme	nt					
Address			Tel./Fax						
Postcode/Town			E-Mail						
			1						
= mandatory fields to fill out			uantity			Rea	uired delivery	date	
Operating data			aanny					auto	
Site of control									
Measuring and control task									
Pipeline DN			19 I	N					
Pipe material									
Process medium									
Type of media	Gas			Stea	.m <sup>1)</sup>		Liquid <sup>1)</sup>		
Standard density			Kg/Nm <sup>3</sup>						
Min	St	andard	Ma	ax	Un	nit			
Flow rate (Q, QN, W) 2)									
Temperature at valve inlet T1									
Absolute pressure at valve inlet P1									
<sup>1)</sup> on request									
<sup>20</sup> standard unit Liquid Q = m <sup>s</sup> /h; Steam W = Kg/h; Gas QN = Nm <sup>s</sup> /h									
Valve features									
Standard connection (flange)	DIN	🗌 A	NSI	JIS	🗌 othei	r Versions			
Seat sealing material	Met	al 🗌 P	TFE						
Function	□ NC	<sup>3)</sup> N	O <sup>3)</sup>						
Max. sound level accepted		d	B (A)						
Pilot pressure		min.					n	nax.	
<sup>a)</sup> NC: resting position with spring closed; SFB: resting position	n with sprir	g open							
Controller features		Pressure	measure	ment	т	emperat	ure measuren	nent	
Communication		Measurir	ig range	range					
Analogue signals for setpoint/output						necess	sary range:	°C	
☐ Input 0/4 - 20 mA / 0 - 5/10V + 1 Binary	input	0 - 100 mbar				~			
		0 - 160 mbar				or			
Output 0/4 - 20 mA / 0 - 5/10V + 2 Binary	output	0 - 250 mbar 0 - 1 bar					cessary, because t		
		0 - 2.	5 bar				temperature is app nt (see Note)	Э.	
or		0 - 6				consta	III (SEE INULE)		
		0 - 10 0 - 16				<b>Note:</b> The media temperature can be set the FMR's display.			
☐ Fieldbus		0 - 16							
			bar (absolut	e)			erature compensat	ion will be	
Profibus DP-V1							based on this pre		
Device Net		other	-	·					
		max. r	nedia pressi	ure:	bar				