

CA-FG26-00EN

2026
PRODUCT CATALOGUE

FGXi

Maximum Safety in Flow Control!

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MOX

S E R I E S

Pneumatically Actuated
Proportional Control Valve



FLOWMAX

MOX SERIES

Pneumatically Actuated Proportional Control Valve

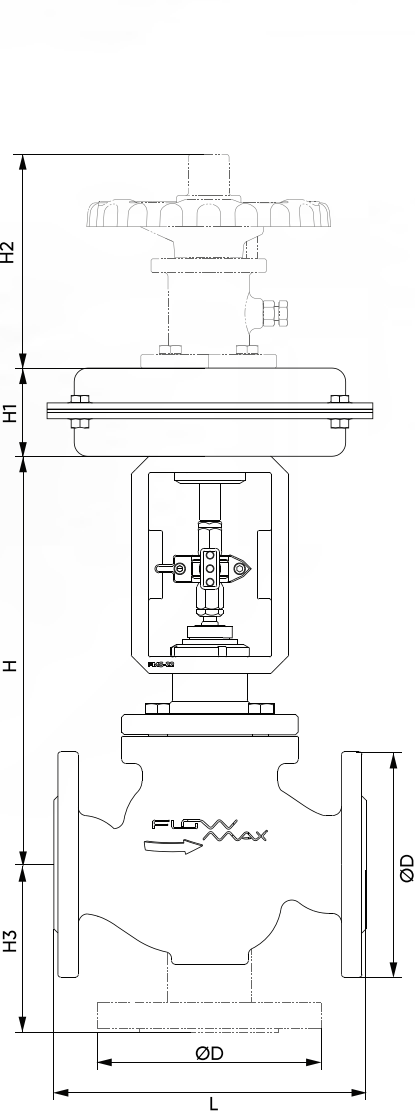
Flowmaxi MOX Series, Pneumatically actuated control valves designed for processes requiring high-precision proportional control. By precisely regulating flow with **4–20 mA or 0–10 V signals**, they provide fast and stable response to process variables. Their advanced positioner technology and high positioning accuracy ensure full compatibility with Flowmaxi positioners and I/P converters. **With DN15–DN100 nominal sizes and PN16–PN40 pressure ratings**, they offer compact, high-performance solutions for critical processes.

BODY MATERIAL	Grey Cast Iron (GG25)
	Ductile Iron (GGG40)
	Carbon Steel
	Stainless Steel
CONNECTION TYPE	Flanged
	PN16 / PN25 (EN 1092-2) PN16 / PN25 / PN40 (EN 1092-1)
NOMINAL SIZE	DN15 – DN100
FLOW COEFFICIENT (Kvs)	4 – 160 m³/h

Coding

MOX	1	0	1	-	HW
BODY TYPE	FLOW CHARACTERISTIC	SEAL TYPE	CONTROL OPTION		
1 = Two-Way 3 = Three-Way	0 = Equal Percentage 1 = Linear 2 = Quick Opening	1 = Standard 2 = Long Type 3 = Metal Bellows	(BLANK) = Standard HW = Handwheel		

MOX Series – Featured Models



	DN	15	20	25	32	40	50	65	80	100
ØD	mm	95	105	115	140	150	165	185	200	220
L	mm	130	150	160	180	200	230	290	310	350
H	mm	275			280	290	300	310	320	370
H1	mm	60						140		
H2	mm	160						200		
H3	mm	70	80	85	100	105		140		150
H4	mm	395			400	410	420	430	440	490
Kvs	m³/h	4	6,3	10	16	25	40	63	100	160

Note: The above dimensions comply with EN 558-1 standards and are given for PN16 flange connection dimensions. Actuator height (H) may vary depending on the actuator size used. The total height may increase with accessories such as a positioner or handwheel. Dimensions may vary depending on the valve body and trim construction. Special sizing and dimensioning options are available upon request.



FM300 – Air Filter Regulator

FM300 is a compact air filter regulator designed to provide the clean, constant-pressure air required for pneumatic control systems. Its high-performance 5-micron filter element removes particles, while its precise regulator mechanism supports system stability.

- 5-micron filtration capacity
- Adjustable outlet pressure: 0–8 bar
- Automatic drain (auto-drain) option
- Maximum inlet pressure: 16 bar
- Easy installation with dual pressure gauge connections
- Operating temperature: –20 °C to +70 °C



FM600 – Electro-Pneumatic Positioner

FM600 is an electro-pneumatic positioner operating with a 4–20 mA analogue control signal, providing high positioning accuracy in MOX series control valves. Its durable construction enhances system reliability under demanding field conditions.

- Linear and fast positioning with a 4–20 mA input signal
- Air supply: 1.4–7 bar / compatible with double-acting and spring-return types
- Auto/Manual operating mode
- Compact design, IP66 protection rating
- Fast commissioning and low hysteresis
- Compatible connection interface for all standard pneumatic actuators



FM800 – Smart Electro-Pneumatic Positioner

FM800 is a smart positioner designed for advanced control requirements, featuring a digital display and automatic calibration. Its high-resolution LCD screen, digital diagnostic functions and HART protocol support enable integration into industrial automation systems.

- 4–20 mA + HART communication protocol (optional)
- Local interface with LCD display (position indication and parameter settings)
- Automatic calibration (Auto Tune) and self-diagnostic functions
- Ex ia / Ex d certification options for hazardous areas
- IP66 protection rating; operating range from –30 °C to +85 °C
- Expandable with limit switch, position transmitter and digital output modules

FM700 – Electro-Pneumatic Positioner with Digital Display and Integrated Air Filter Regulator

FM700 is an electro-pneumatic positioner with a digital display. It precisely processes the 4–20 mA signal received from the control system, regulates the air pressure supplied to the actuator, and keeps the valve in a stable position. The digital display allows the setpoint, actual position and operating status to be monitored easily, while its fast-response construction provides stable and repeatable performance. Its integrated air filter regulator cleans the supply air to increase system reliability; the optional feedback feature enables continuous position monitoring for advanced control applications.



- Easy monitoring and adjustment via digital display
- High-precision and repeatable positioning
- Minimised oscillation through stable operation
- Clean and reliable air supply with integrated filter regulator
- Optional feedback feature

MEX

S E R I E S

Electrically Actuated
Proportional Control Valve



FLOWmaxi

Flowmaxi MEX Series Three-Way Proportional Control Valves

BODY MATERIAL	Ductile Iron (GG25)
	Ductile Iron (GGG40)
	Carbon Steel
	Stainless Steel
CONNECTION TYPE	Flanged
	PN16 / PN25 (EN 1092-2)
	PN16 / PN25 / PN40 (EN 1092-1)
NOMINAL SIZE	DN15 - DN100
FLOW COEFFICIENT (Kvs)	2,0 – 160 m³/h

Flowmaxi MEX 300 Series combines the precision and automation capabilities provided by electric actuator technology with a three-way globe valve design, offering high-performance solutions for mixing and diverting applications. Equipped with the reliability of Siemens actuators, this series stands out for its low energy consumption, quiet operation and reliable positioning. Its compressor-free design provides quiet and sustainable process control, particularly in enclosed systems. Its slow opening and closing movement minimises pressure surges within the system while maintaining flow balance

MEX Series – Featured Models



MEX102

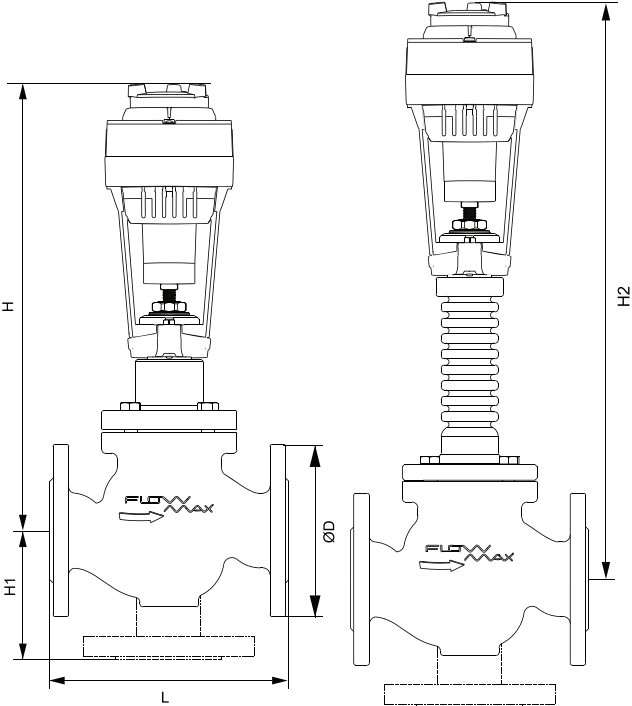
MEX302

MEX301

	DN	15	20	25	32	40	50	65	80
ØD	mm	95	105	115	140	150	165	185	200
L	mm	130	150	160	180	200	230	290	310
H	SAX		360		365	375			
	SKD		420		425	435	445		
	SKB								
	SKC						520	530	540
	SAV								
H1	SAX		480		485	495			
	SKD		540		545	555	565		
	SKB								
	SKC						640	650	660
	SAV								
H2	mm	70	80	85	100	105		140	
Kvs	m³/h	4	6,3	10	16	25	40	63	100

Coding

MEX	1	0	1
	↓	↓	↓
BODY TYPE	FLOW CHARACTERISTIC	SEAL TYPE	
1 = Two-Way 3 = Three-Way	0 = Equal Percentage 1 = Linear 2 = Quick Opening	1 = Standard 2 = Long Type 3 = Metal Bellows	



Closing Pressures Compatible with Siemens Electric Linear Actuators

Siemens linear actuators with various force and stroke ratings are highly compatible with Flowmaxi MEX series proportional control valves. The table below lists the maximum closing pressure (ΔP) for each actuator model according to DN size. These values help determine the correct actuator configuration during valve selection.



Actuator Features:

- SAX Series – Compact design; non-spring-return.
- SKD Series – Compact design; spring-return.
- SKB Series – Provides high closing force; spring-return.
- SAV Series – Suitable for longer-stroke applications; spring-return.
- SKC Series – Features the maximum force and stroke combination; spring-return.

DN	Siemens Actuator	SAX..	SKD..	SKB..	SAV..	SKC..
	Stroke	20mm			40mm	
	Force	800N	1000N	2800N	1600N	2800N
15	ΔP	25	30			
20	ΔP	25	30			
25	ΔP	16	20			
32	ΔP	10	12			
40	ΔP	6	8			
50	ΔP		5	14	8	14
65	ΔP			8	5	8
80	ΔP			5		5

24 V or 230 V operating-voltage options are available for all models.

When making a selection, operating pressure, valve size and the required safety functions—for example, automatic closing in the event of a power failure—should be taken into consideration.

SV7

S E R I E S

Pneumatic Piston-Actuated
On/Off Control Valve



FLOWMAX

SX7 SERIES

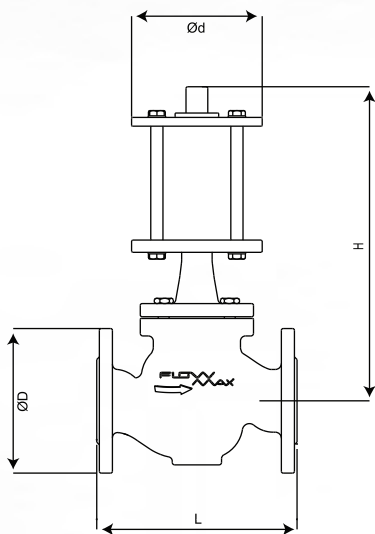


Pneumatic Piston-Actuated On/Off Control Valve

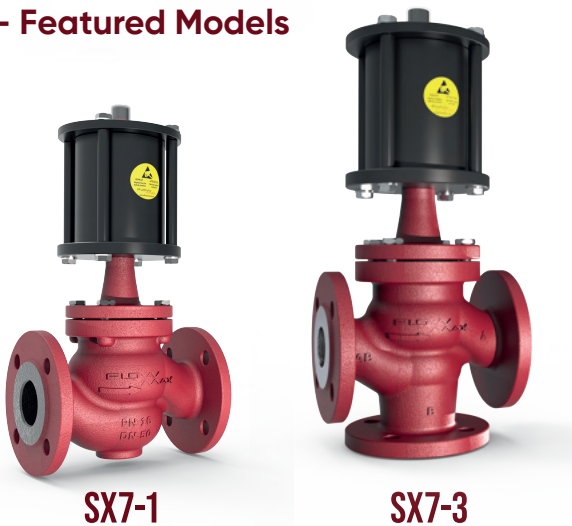
Flowmaxi SX7 Series On/Off control valves are an ideal solution for meeting your industrial automation requirements, thanks to their innovative design, high-quality local manufacturing and user-friendly features. With these valves—supported by technical assistance, readily available spare parts and proven performance—you can control your processes with confidence.

BODY MATERIAL	Grey Cast Iron (GG25)
	Ductile Iron (GGG40)
	Carbon Steel
	Stainless Steel
CONNECTION TYPE	Flanged
	PN16 / PN25 (EN 1092-2)
	PN16 / PN25 / PN40 (EN 1092-1)
NOMINAL SIZE	DN15 - DN80
FLOW COEFFICIENT (Kvs)	6 - 110 m³/h

Pneumatic Piston		Ød	Air Supply Inlet
30cm²	Ø60mm	100	G1/8"
50cm²	Ø80mm	130	G1/8"
80cm²	Ø100mm	150	G1/8"
120cm²	Ø120mm	180	G1/8"
150cm²	Ø140mm	200	G1/8"
300cm²	Ø200mm	260	G1/2"
360cm²	Ø215mm	280	G1/2"
400cm²	Ø240mm	300	G1/2"



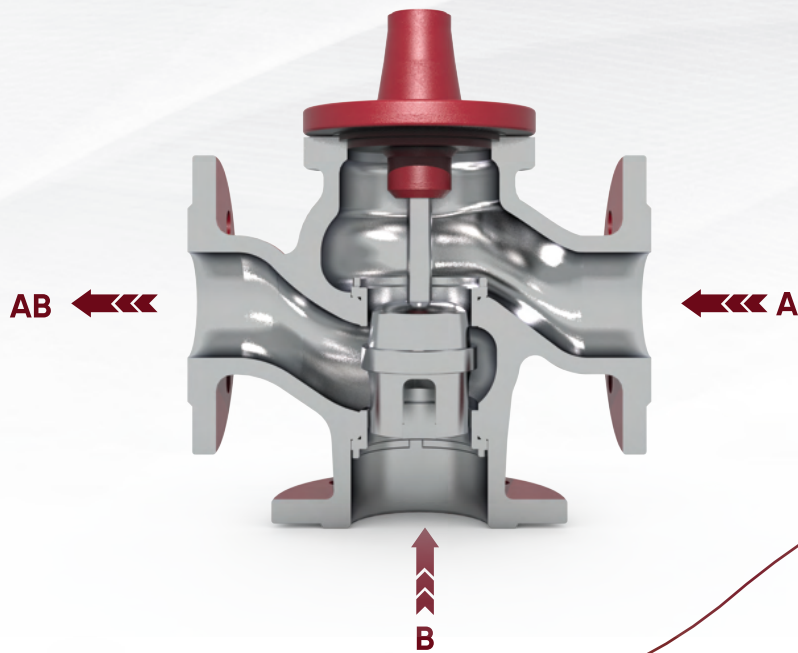
SX7 Series – Featured Models



Nominal Sizes	DN	15	20	25	32	40	50	65	80
Valve Length (L)	mm	130	150	160	180	200	230	290	310
Overall Height Including Actuator (H)	mm	280			300	320	345	365	385
Overall Height Including Actuator (H1)	mm	400			420	440	465	485	495
Flange (ØD)	mm	95	105	115	140	150	165	185	200
Standard Actuator	-	30cm²			50cm²		80cm²		120cm²
Closing Pressure (ΔP)	bar	16	16	12	16	10	10	8	8
Flow Coefficient (Kvs)	m³/h	6	10	18	20	32	50	70	110

Note: The above dimensions comply with EN 558 and are provided for valve bodies with PN16 flanged connections. In particular, the H (height) dimension may vary according to the actuator size selected. The overall height may increase for valves fitted with larger actuators or optional accessories, such as a handwheel or positioner. Weight values depend on the body material and actuator type and are provided by the manufacturer upon request.

INTERNAL DESIGN and OPERATING PRINCIPLES

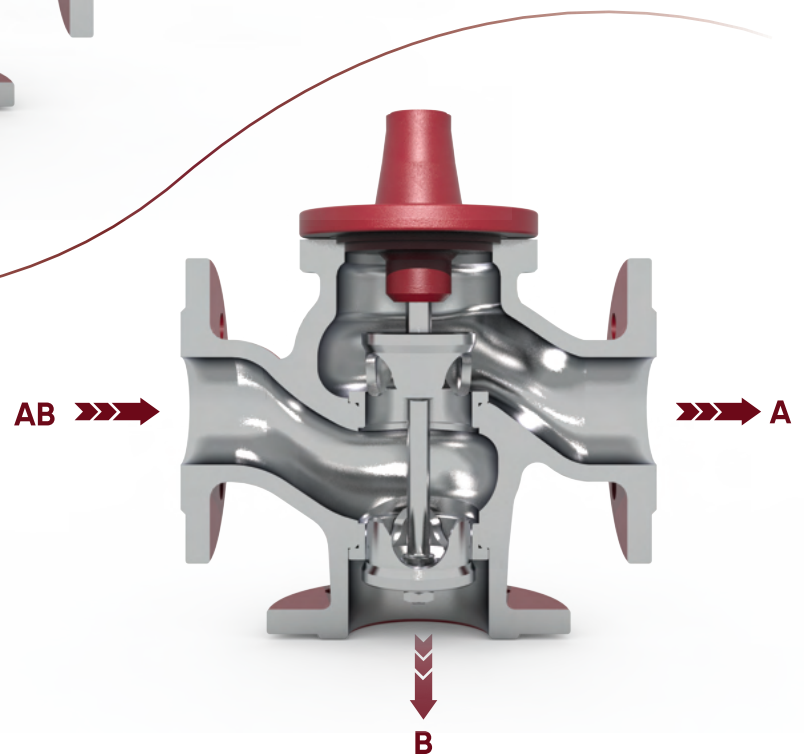


Mixing Type

It enables the controlled combination of fluid coming from two different inlet lines into a single outlet line. It is especially suitable for heat exchangers and mixing processes.

Diverting Type

It allows the fluid coming from a single inlet line to be proportionally distributed into two separate outlet lines. It is preferred in systems requiring cooling, heating, and flow direction control.



Typical Application Areas



Proportional feed water systems for boilers



Temperature control applications



Energy recovery boiler systems

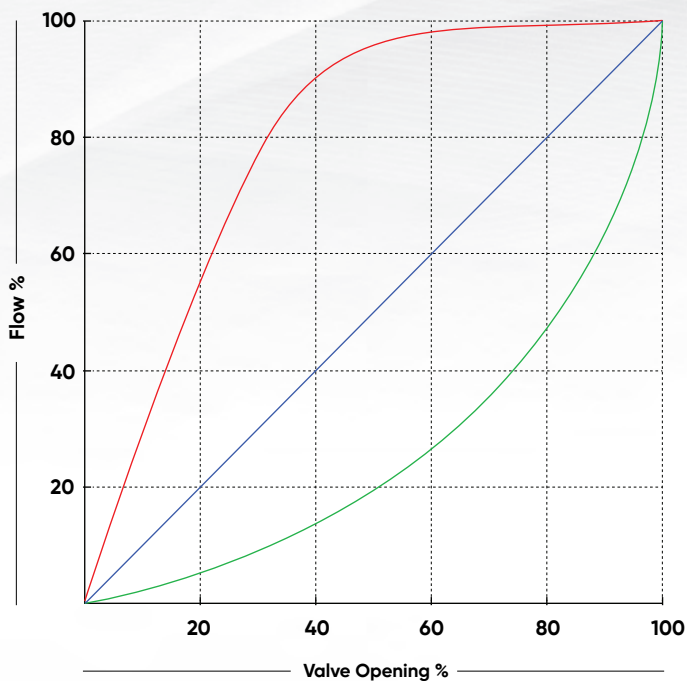


Mixing lines (chemical, food, pharmaceutical)



Inlet/outlet control of heat exchangers

FLOW CHARACTERISTICS and STRUCTURAL COMPONENTS



Fast Opening
Linear
Equal Percentage

In control valves, the flow characteristic defines how the flow rate changes as the valve opening increases. In other words, it represents the flow curve corresponding to the opening percentage. Different characteristics are used according to application requirements.

Flow Characteristic Types and Plug Designs:



1. Equal Percentage

As the opening rate increases, the rate of flow change increases progressively. It provides precise control at initial positions and more aggressive flow in the final openings. It is especially preferred in processes with high pressure variations, and in steam and hot fluid applications.



2. Linear

The increase in flow is directly proportional to the valve opening. It is ideal for systems less sensitive to pressure and for proportional heating-cooling applications.



3. Fast Opening

A small valve movement allows a large portion of the flow to pass. It is commonly used in on/off applications and in systems requiring rapid response, such as safety and discharge lines.



4. Noise-Reducing Cage Plug

Preferred in high differential pressure lines. It has a perforated structure that improves acoustic performance and reduces noise. It can be designed with linear or equal percentage flow characteristics. It provides a safe and durable solution against high pressure differences, cavitation, and vibration risks.

SS-12

S E R I E S
Steam Separator



FLOWMAX

Baffle-Type Steam Separator – SS-12 Series

BODY MATERIAL	Ductile Iron (GGG40) Carbon Steel
CONNECTION TYPE	Flanged PN25 / PN40
NOMINAL SIZE	DN32 - DN200

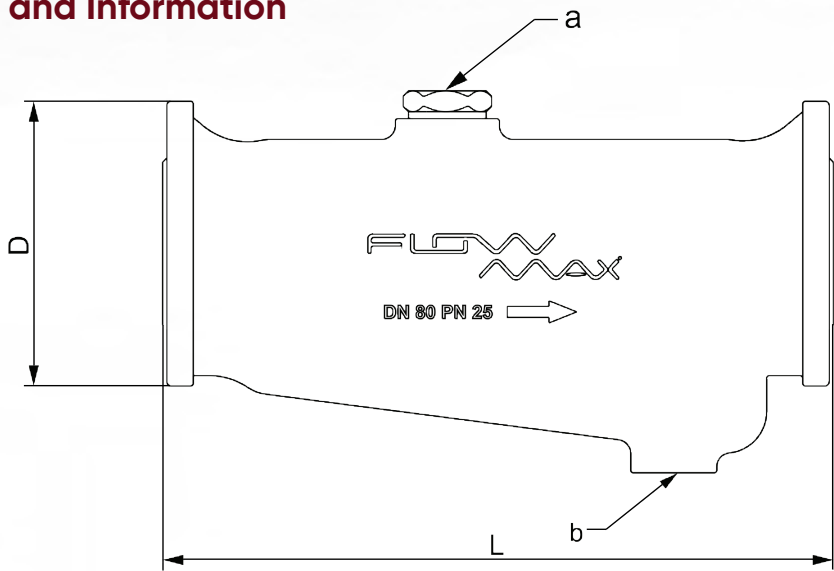
The Baffle-Type Separator is designed to separate liquid particles carried in steam and gas lines through the principle of mechanical flow redirection. Internal baffle plates change the direction of the fluid, causing higher-density liquid droplets to impact the surfaces and separate from the flow.

Its construction contains no moving parts, resulting in minimal maintenance requirements and long-lasting, reliable operation. By providing high separation efficiency with low pressure loss, it improves system performance and contributes to equipment protection.

Its compact design and various installation options make it an effective solution for industrial steam, gas and air applications.

- No moving parts; maintenance-free
- Low pressure loss
- High separation efficiency
- Compact and robust design
- Suitable for steam, air and gas lines

Dimensions and Information



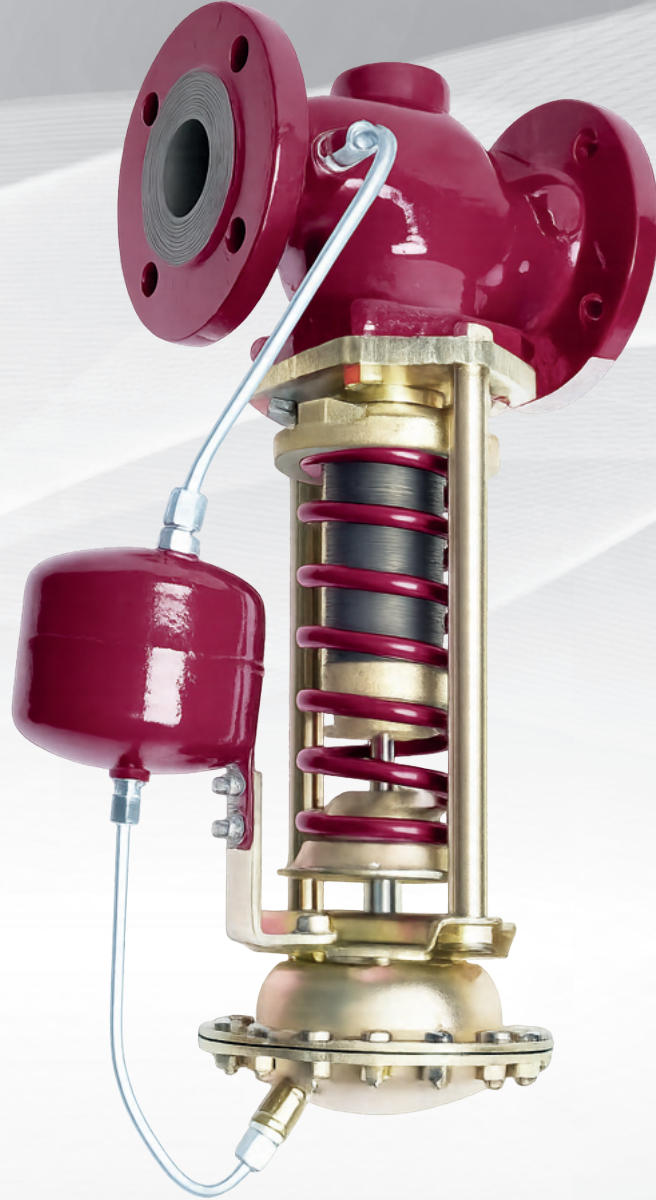
Technical Data

DN	32	40	50	65	80	100	125	150	200
a	1"	3/4"	2"	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"
b	1/2"	1/2"	1/2"	3/4"	1"	1"	1"	1"	1-1/2"
D	140	150	165	185	200	235	270	300	360
L	356	370	457	476	483	645	705	705	762
Number of Bolts	4	4	4	8	8	8	8	8	8

All certification and inspection requirements must be specified when placing the order.

DR-1

S E R I E S
Direct-Acting Pressure
Reducing Valve



FLOWmaxi

DR-1 SERIES

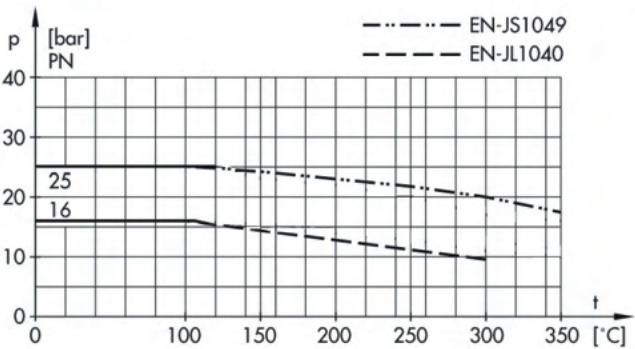
Direct-Acting Pressure Reducing Valve

Operating Range

The self-acting pressure control valve is a practical device used to maintain line pressure at a preset setpoint. Its adjustable pressure range is 0.2–6 bar, and it is available in sizes from DN15 to DN100. Its nominal pressure rating is PN16 or PN25, with a maximum operating temperature of 350 °C. The unit is manufactured in accordance with DIN standards. The Type 10 valve is suitable for steam lines.

Function

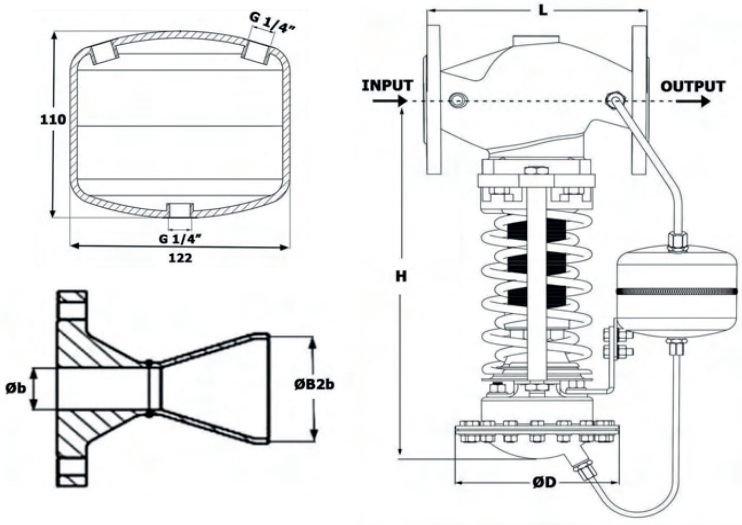
The Type 10 steam pressure reducing valve controls the outlet pressure and automatically maintains it at the specified setpoint. The valve is normally open and gradually closes as the outlet pressure increases. The correct steam-flow direction is indicated by an arrow on the valve body. Outlet pressure is transmitted to the actuator and diaphragm surface through the balancing bellows and connecting pipe. This force is transferred through the stem, changing the distance between the seat and plug. In this way, the pressure remains stable at the setpoint. The device includes a component that balances inlet and outlet pressure and also functions as a mechanical seal. The valve is self-acting and does not require any external force.



Pressure–Temperature Diagram

These diagrams are drawn in accordance with DIN standards and indicate different operating and pressure ranges resulting from different temperatures and materials.

How to Order	
Nominal Size	DN
Operating Pressure	PN
Outlet Pressure Range	Bar
Inlet Pressure	P1
Outlet Pressure	P2
Steam Temperature	°C



Condensate (Balancing) Vessel

This equipment is used to protect the diaphragm from excessive heat and steam. It must be filled with water before commissioning the valve.

Control Line (3/8 in. pipe)

This line transmits the main process pressure to the actuator, ensuring precise valve control. Its integrated design eliminates the need for an additional external control line.

Conical Reducer

Useful for increasing the valve outlet diameter to deliver the required steam volume.

Connection Bolt

Used to connect the control line to the actuator and the valve's main body.

Water Injection Orifice

Used to fill the condensate vessel, control line and actuator with water.

Technical Data									
Size	DN	15	20	25	32	40	50	65	80
Flow Coefficient	Kvs.	3.1	5	8	12.5	20	32	50	75
Operating Pressure Differential	ΔP bar	25						20	
Operating Pressure	PN16/25								
Leakage Rate	≤ 0.05% of Kvs for valves with metal seating								
Operating Temperature	Refer to the temperature table								
Adjustable Pressure Range	bar	0.2 ... 1 , 0.8 ... 2.5 , 2 ... 5 , 4.5 ... 10 , 8 ... 16							
Permissible Ambient Temperature	°C	-10 ... + 80							

Part Materials			
Seat and Plug		Standard	Stainless Steel 410
		Special	Stainless Steel 304
Nominal Pressure	DIN	PN25	PN16
Body Material		Cast Iron	Cast Iron
		GGG-40.3 EN-JL1049	GG25 EN-JL1040
Metal Bellows Component		Stainless Steel 316L / WN 1.4435	
Body Gasket		Graphite with metal core	
Actuator		ST	
Diaphragm		Fabric-reinforced EPDM	

Dimensions and Weights									
Dimension	DN	15	20	25	32	40	50	65	80
Orifice Diameter		22						65	
Length	L	130	150	160	180	200	230	290	310
0.2 ... 1	Approximate Weight, PN16	19	19	20	26	27	29	52	57
0.8 ... 2.5		15	15	16	22	23	25	49	54
		12	12	13	19	20	22	45	50
0.2 ... 1	H	420			450			590	
	ØD	ØD = 285 . A350cm²							
	Spring Force	4600N							
0.8... 2.5	H	410			440			570	
	ØD	ØD = 230 . A160cm²							
	Spring Force	4600N							
2... 5	H	390			440			570	
	ØD	ØD = 175 . A80cm²						ØD = 230 . A160cm²	
	Spring Force	4600N						8500N	
4.5... 10	H	390			440			550	
	ØD	ØD = 175 . A40cm²			ØD = 175 . A80cm²				
	Spring Force	4600N			8500N			7500N	
8... 16	H	390			440			550	
	ØD	ØD = 175 . A40cm²						ØD = 175 . A80cm²	
	Spring Force	8500N							

TIFE

SERIES Clean Steam Filter



FLOWMAX

TUF SERIES

Clean Steam Filter

SIZE	1/2" - 2" DN15 - DN150
CONNECTION TYPES	Flanged (EN 1092) Female BSP Weld End
BODY MATERIAL	AISI 304L, AISI 316L
MAXIMUM ALLOWABLE PRESSURE	8.5 bar g
MAXIMUM OPERATING TEMPERATURE	178 °C

Coding

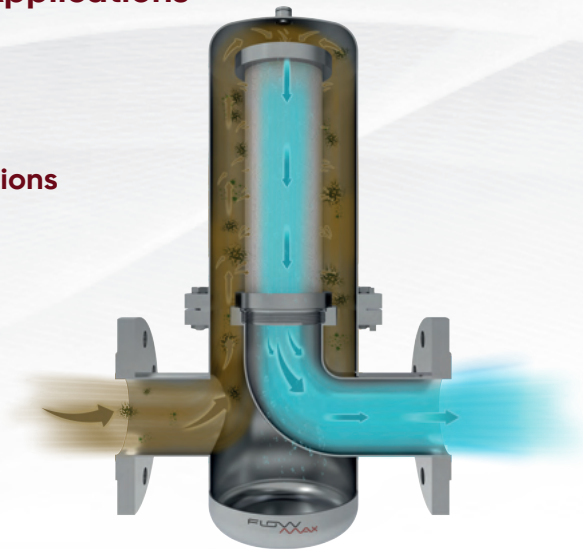
TUF	6	F
	MATERIAL	CONNECTION
	4 = 304 6 = 316	G = Threaded F = Flanged W = Weld End

Dimensions					
Product Size	A mm	B mm	ØC mm	ØD mm	Correction Factor
03/10	76	12	3/4 "	42	0,12
04/10	104	12	3/4 "	42	0,17
04/20	104	14	1 "	52	0,19
05/20	104	14	1 "	52	0,19
05/25	128	14	1 "	32	0,32
05/30	128	16	2 "	86	0,46
07/25	180	14	1 "	62	0,47
07/30	180	16	2 "	86	0,68
10/30	254	16	2 "	86	1,00
15/30	381	16	2 "	86	1,55
20/30	508	16	2 "	86	2,10
30/30	762	16	2 "	86	3,28
30/50	762	16	3 "	140	5,89

High-Efficiency Filtration Solution for Clean Steam Applications

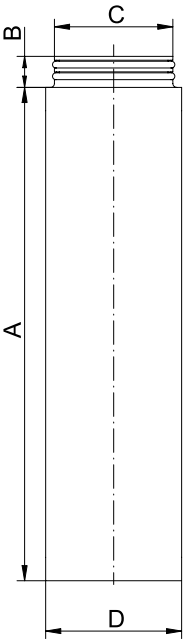
Filter Options

- » 1µm
- » 5µm
- » 25µm



Clean Steam, Maximum Filtration

Flowmaxi clean steam filters efficiently retain particles in process steam, providing clean steam for all applications requiring it.



Industry



Pharmaceuticals



Healthcare



Food & Beverage



Other Industries



FLowmaxi

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"Flowmaxi reserves the right to make changes to product specifications without prior notice."