

## Valves and actuators for HVAC primary plants

**Landis & Staefa offer the most comprehensive range of valves and actuators for the HVAC market. This range covers lift and lay valves for ventilation and air conditioning systems (VAC), rotary valves for heating systems and terminal unit valves for fan coil units, etc. Our VAC valves comprise Hydraulic, Motoric and Magnetic, giving us the ability to solve any HVAC application and more.**

### Landis & Staefa "Motoric" range

#### Cost-effective

The outstanding feature of the motorised actuators is their excellent price/performance ratio. They are ideal for standard control functions in small systems where choice is determined not only by quality but also by price. The modular design of these actuators makes it possible to provide solutions tailored exactly to customer requirements.

#### Field proven and unrivalled

The motorised actuator principle is more widespread than any other in the HVAC industry. Millions of customers back it's proven technology and benefit from its unrivalled price/performance ratio

**The ideal actuator principle for all standard applications.**

### Landis & Staefa "Magnetic" range

#### Fast

The outstanding feature of the magnetic actuator is its fast positioning rate. With positioning times of less than two seconds, perfect control can be achieved even in applications for which other actuators are too slow.

#### Friction-free operation for high stroke resolution

With the simple, virtually friction-free construction of the magnetic actuator, the valve stroke is continually variable. Since there is no jump on start-up, close control can be achieved even in the low operating range. Due to the high stroke resolution, the valve is less likely to be affected by incorrect sizing.

**The ideal actuator principle for difficult controlled processes in ventilation and air conditioning systems.**

### Landis & Staefa "Hydraulic" range

#### Powerful

Hydraulic actuators are noted for their high positioning force. Valves with hydraulic actuators are ideal for use in heating systems and where applications involving large volumes of water and high pressure differentials need to be controlled.

#### Safe in extreme conditions

The principal of the hydraulic actuator ensures sufficient power even with very high pressure differentials. The valves are designed to withstand media at very high temperatures, ensuring maximum safety with all control and shut-off functions, even under extreme operating conditions.

**The ideal actuator principle for primary plant control and applications with high volumetric flow rates.**

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## Valves and Actuators - adding authority to control

### Primary plant range overview

**We are building productivity**

Landis & Staefa Division  
Siemens Building Technologies Group

## Valves and actuators for HVAC primary plant

Actuators				Motoric line				Magnetic line			Hydraulic line			
														
Electrical interface														
Supply voltage	Control signal		Spring return											
AC 24V	DC 0-10V	Modulating		SSB61	SSC61	SQS65	SQX62							
	DC 0-10V	Modulating	X			SQS65.5		MX.461.	M3B...GY	M2H..FY.N	SKD62	SKB62	SKC62	
	DC 4-20mA	Modulating					SQX62							
	DC 4-20mA	Modulating	X					MX.461.	M3B...GY	M2H..FY.N	SKD62U	SKB62U	SKC62U	
	3-position			SSB81	SSB81	SQS85.0..	SQX82.0				SKD82.50	SKB82.50	SKC82.60	
	3-position		X								SKD82.51	SKB82.51	SKC82.61	
AC 230V	3-position			SSB31	SSC31 1)	SQS35.0..	SQX32.0..				SKD32.50	SKB32.50	SKC32.60	
	3-position		X			SQS35.5..					SKD32.51	SKB32.51	SKC32.61	
Stroke (mm)				5.5	5.5	5.5	20	Pre-assembled	Pre-assembled	Pre-assembled	20	20	40	

Valves		Hydraulic parameters				Nominal sizes										
		Nominal pressure	Connection type		Kvs (m3/h)	Data sheet	DN	DN	DN	DN	DN	DN	DN	DN	DN	
2-Port Valves	VVF31	PN10		F	1.9-124	4320				25...80				25...80	25...80	100...150
	VVP45./C	PN16	G		0.25-25	4845	15...20	15...40								
	VVG44./C		G		0.25-25	4364			15...40							
	VVG41./C		G		0.63-40	4363				15...50				15...50	15...50	
	MXG461./C		G		0.6-30	4455					15...50					
	MXF461. +Z		F		0.6-50	4455					15...100 2)					
	M3B..GY		G		0.6-30	4459						15...50				
	M2H..FY.N		F		0.6-30	4348							15...50			
	VVF41		F		31-300	4340				50				50	50	65...150
	VVF45.		F		19-300	4345									50	65...150
	VVF52		PN25		F	0.16-25	4373				15...40				15...40	15...40
	VVF61	PN40		F	0.19-300	4382								15...25	15...50	65...150
2-Port Valves	VXF31	PN10		F	1.9-124	4420				25...80				25...80	25...80	100...150
	VXP45./C	PN16	G		0.25-25	4845	15...20	15...40								
	VXG44./C		G		0.25-25	4464			15...40							
	VXG41./C		G		0.63-40	4463				15...50				15...40	15...40	
	MXG461./C		G		0.6-30	4455					15...50					
	MXF461.		F		0.6-50	4455					15...100 2)					
	M3B..GY		G		0.6-30	4459						15...50				
	VXF41		F		1.9-300	4440				15...50				15...50	15...50	65...150
	VXF61		PN40		F	0.6-30	4482								15...50	15...50

Notes:

- 1, DN 80/DN 100 available as M3P80FY and M3P100FY, see data sheet 4454
- 2, G = Externally threaded connections
- 3, F = Flanged connections