voith.com

Directional control valves and mounting plates

Lubricating and cooling applications

Benefits

+ Low space requirement
+ Flange construction with multiple electrical connections
+ Low electrical switching power
+ Wear resistance using ceramic components
+ Integrated non-return function

Technical data: Valve

General

Design	Seat valve
Type of operation	Pneumatic, electrically switched
Mounting	4 x M5 x 110 ISO 4762, 10.9
Port connection	Mounting plate
Installation position	Any
Ambient temperature	+10 to +50 °C
Masse valve	<1 kg

Hydraulic characteristics

Operating pressure in A and B	0 - 40 bar 0 - 80 bar 0 - 120 bar
Medium pressure temperature	+10 to +70 °C
Viscosity range	1 to 150 mm²/s at 20 °C
Max. flow	40 l/min

Electrical

Valve voltage (±10%)	24 V DC
Switching time on	50 to 400 ms
Switching time off	50 to 400 ms
Power consumption P20	4,8 W
Duty cycle	100 %
Protection class DIN 40050	IP65 with valve connector plugged in

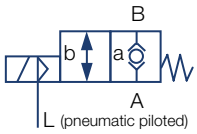
Pneumatic characteristics

Operating pressure L	Min. 6 to max. 8 bar

Options

- **Additional symbols, on request**
- **Plate structure with multiple electrical connections**
- **Extended temperature range options, on request**
- **Additional pressure ranges, on request**

Symbol



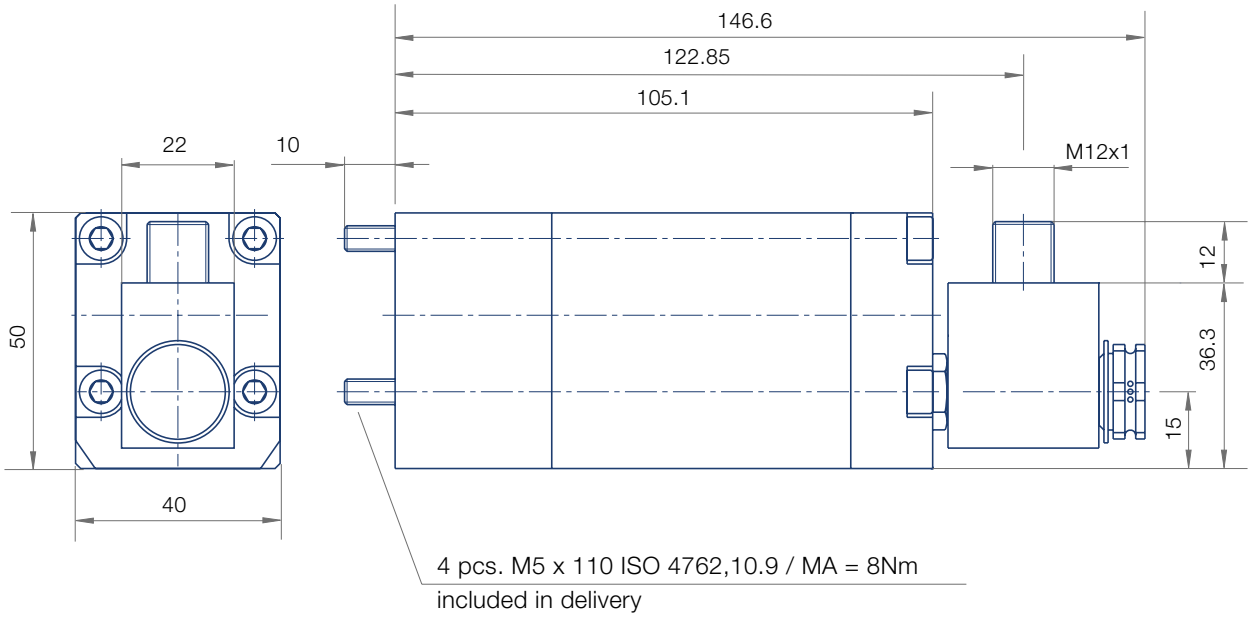
Electrical connection

M12 plug
DIN EN 60947-5-2
Appendix D
(VDE 0660 part 208)

Product features

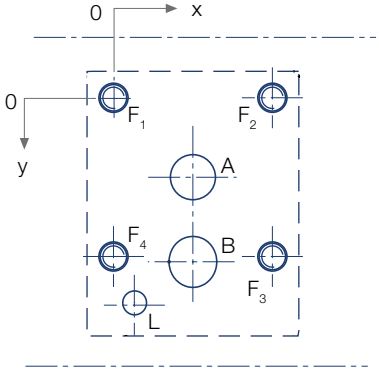
Features	Advantages/Benefits
Pneumatically pilot controlled and electrically operated	+ **Existing energy source is used for pilot control** + **Low electrical power**
Standard version with ceramic ball	+ **Clean flow channels** + **High wear resistance due optimized geometry** + **Easy and low commissioning cost**
Specially developed modular attachment plates can be flanged	+ **Compact and saves space** + **Variety of specification possibilities** + **Different or equal pressure ranges** + **Extendable and adaptive** + **Simple and fast assembly** + **Suitable for retrofit** + **Simple and fast servicing** + **Quick valve changes are possible, this saves time** + **High availability**

Dimension drawing: Valve



All dimensions are in mm
Solenoid free rotatable

Hole pattern
KSS valve on sub-base



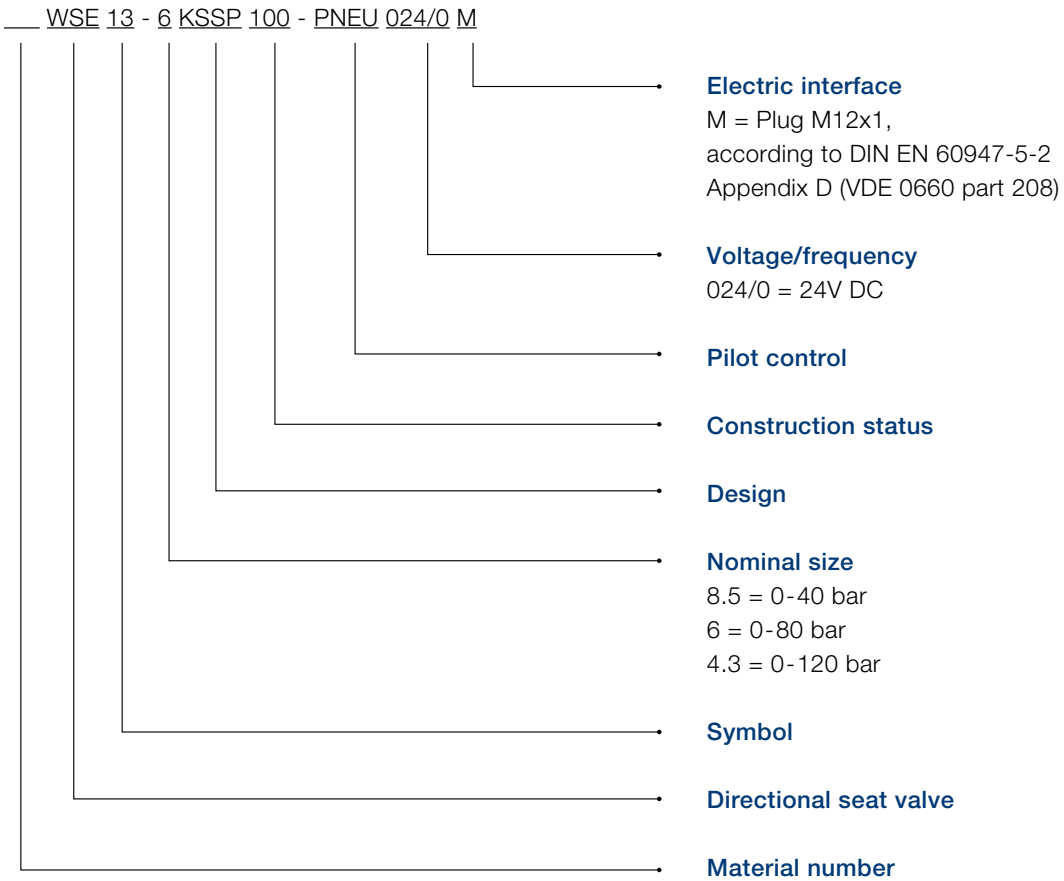
F: M5, thread depth min. 12 mm
All dimensions ± 0,1 mm

	A	B	F1	F2	F3	F4	L
Ø max [mm]	8.8	8.8	-	-	-	-	4.2
x [mm]	15	15	0	30	30	0	4
y [mm]	15	31	0	0	30	30	39

Various single and multiple mounting plates are available.
View: Screw on sub-base surface

All dimensions are in mm

Type code: Valve

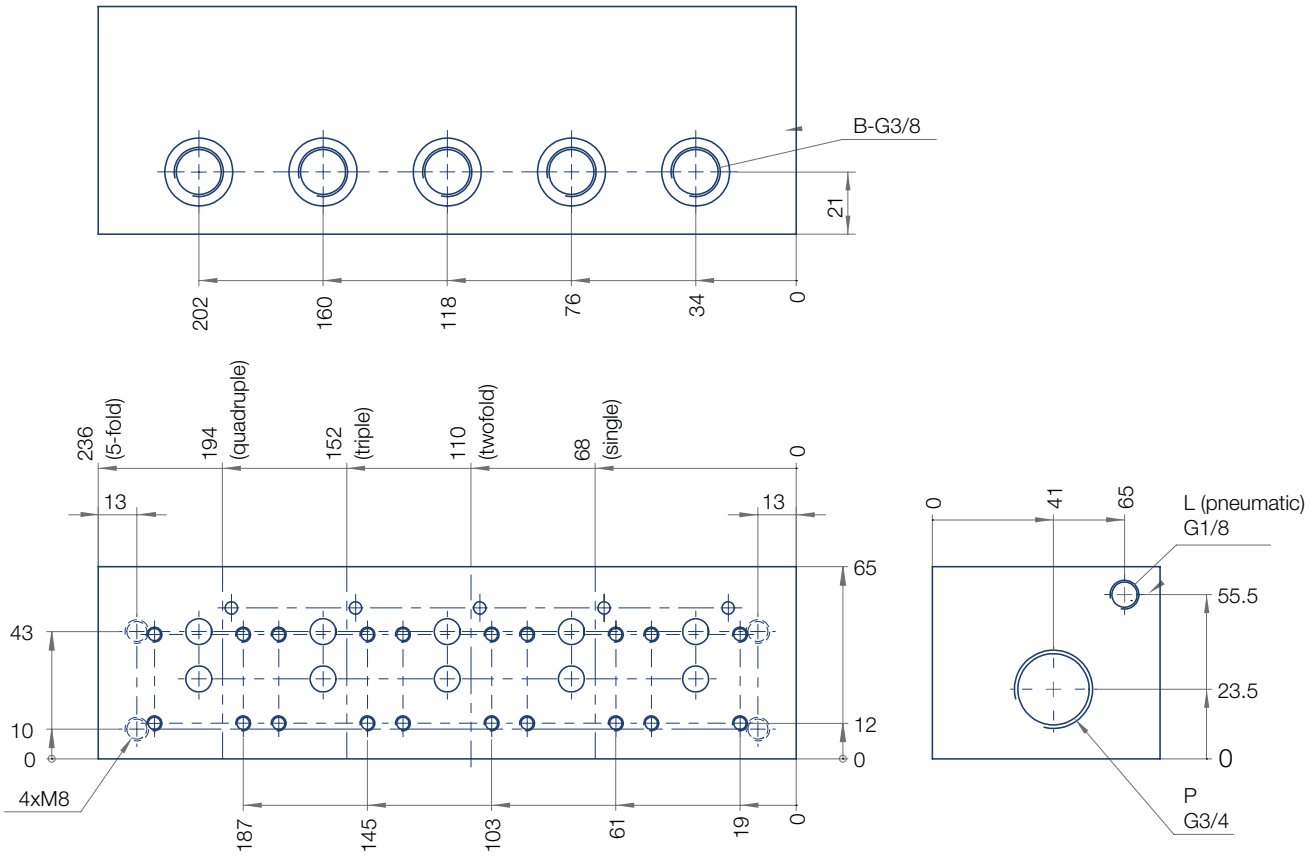


Variant structure and flange mounting options

Advantages

+ Longitudinal linking can be extended, as required
+ Cross-linking can be extended, as required
+ Several pressure stages per consumer

Dimension drawing: Mounting plate



All dimensions are in mm

Type code: Mounting plate

___ PW 6 K - 3 G5 400

Construction status
Design code

Connection size thread
G5 = 3/4”

Multiple mounting plate
Number of structures; 1 = single to 5 = fivefold

Hole pattern

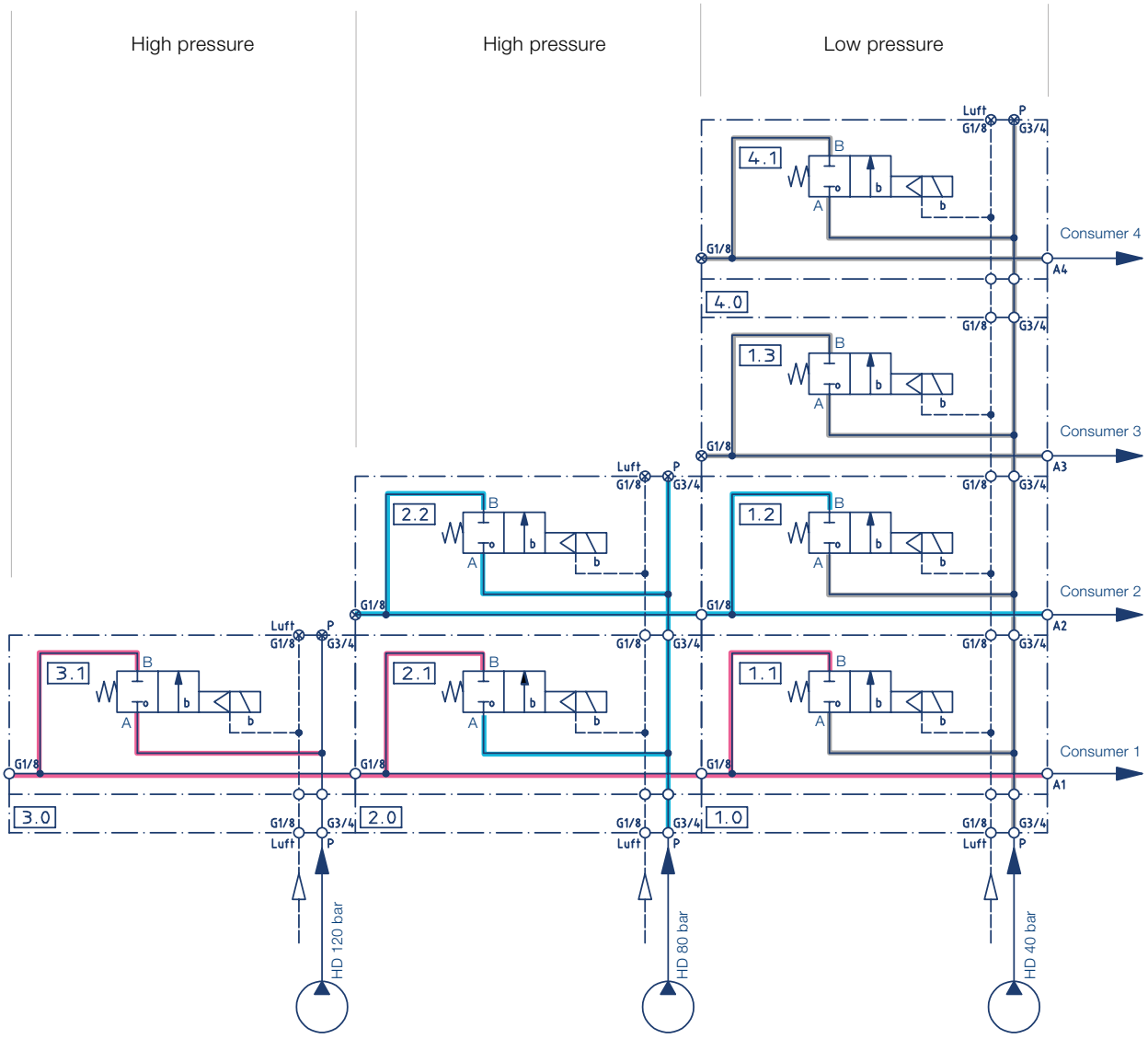
Nominal size

Designation

Material number

Mounting plate hydraulic diagram

Example: Single, double and triple plate transverse and longitudinal interlinking



This is a translated document
Original language: German.
Legally binding language version of the document: German.

Voith Group
St. Poeltener Str. 43
89522 Heidenheim
Germany

www.voith.com/hydraulics

Contact:
Tel. +49 7152 992 3
sales-rut@voith.com