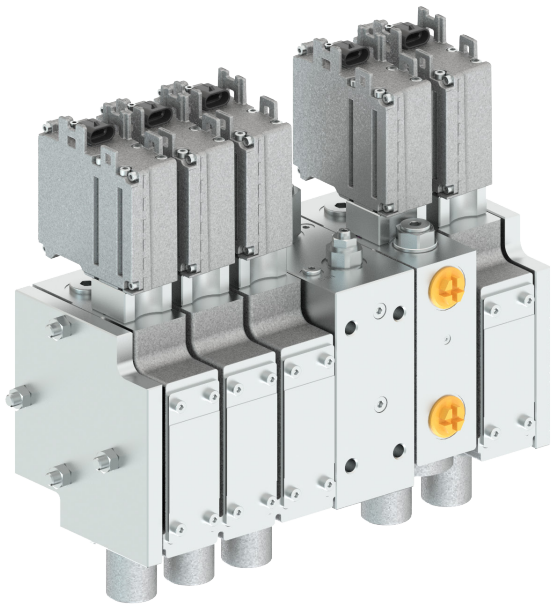
TCV

Sandwich control valves for open circuit operation

Linde Hydraulics



Design Characteristics

>> Control via electric stepper motor available
>> Modular sandwich design
>> CAN bus and self-diagnosis available

Advantages

>> High control accuracy and responsiveness
>> Flexible compilation of customized configurations
>> Easy integration into modern vehicle systems, as well as ease of maintenance and repair

General technical data*

Nominal size			50	80	120	170
Flow	Nominal flow	l/min	50	80	120	170
	Maximum flow		70	100	140	200
Configuration	Flexible number of sections		1 to 10	1 to 10	1 to 10	1 to 10
Pressure	Nominal pressure	bar	280	280	280	280
	Maximum pressure [2]		320	320	320	320
Weight	approx. (without oil)	kg	15 (4 sections)	21 (4 sections)	33 (5 sections)	50 (5 sections)

[1] theoretical data of a single unit without efficiency effects
[2] highest transient pressure, that can temporarily occur
[3] highest transient speed, that can temporarily occur
* These data correspond to the current development status and may deviate in the case of the series-ready product

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Control options

						50	80	120	170
Electric						✓	✓	✓	✓
Hydraulic									
Manual						✓	✓	✓	✓
CAN bus								✓	✓

Options

		50	80	120	170
	Hitch control (electric and CAN bus control only)	✓	✓	✓	✓
	Attachment control	✓	✓	✓	✓
	Load sensing flow control (precompensated)			✓	✓
	Leakage-free load holding	✓	✓	✓	✓
	Position feedback			✓	✓
	Self-diagnosis			✓	✓

Hydraulic Interfaces

			50	80	120	170
Work ports A, B	ISO 6149-1		M20x1.5	M22x1.5	M27x2	
Supply ports P, T	ISO 6149-1		M22x1.5	M27x2	M33x2	

Application example

Equipment

A 1x NPRC 45
B 1x TCV 120
C 1x iCon CD 97-01

Category

100 kW — 150 kW — 200 kW