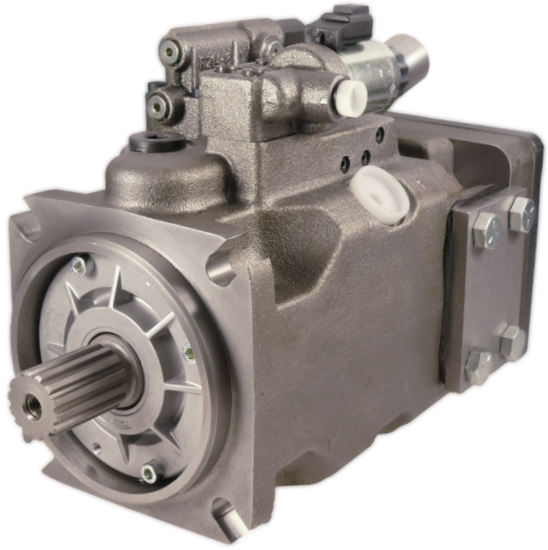
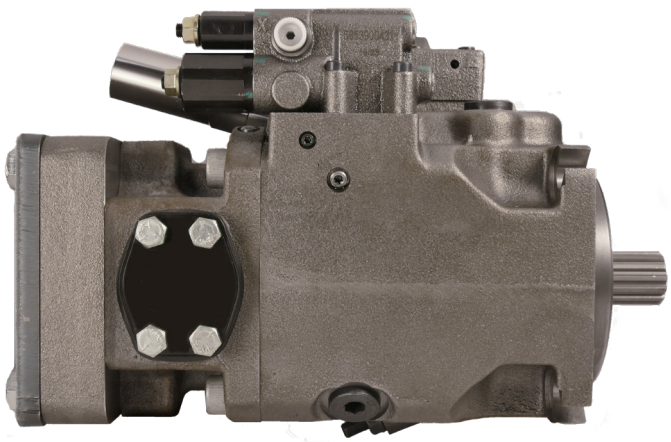
MPR

Self-regulating pump for open circuit operation

Linde Hydraulics





Design Characteristics

>> High integration
>> Various control options
>> Interfaces meet common understanding of global market standards (mechanical, hydraulic, electric)

Advantages

>> Wide range of applications
>> Versatile system control and system safety
>> No need of adaptors

General technical data*

Nominal size			30	45	60	75	85	100
Displacement	Max. Displacement	cc/rev	30	45	60	75	85	100
Flow	Max. flow	l/min	90	121,5	144	180	204	220
Direction of rotation			CW					
Speed	Nominal speed	rpm	3000	2700	2400	2400	2400	2200
Pressure	Nominal pressure	bar	280					
	Maximum pressure [2]		350					
Torque	(Δp=Nominal pressure)	Nm	134	201	267	334	379	464
Power	Corner Power (at Δp=280 bar/V_{gmax}/n_{nom}) [1]	kW	42	57	67	84	95	103
Weight	approx. (without oil)	kg	20	25.5	25.5	34	34	55

[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

	Pressure cut-off	Power Limitation	electro-proportional power limitation	Negative control	30	45	60	75	85	100
Load Sensing	✓				✓	✓	✓	✓	✓	✓
	✓	✓			✓	✓	✓	✓	✓	✓
	✓		✓					✓	✓	✓
Electro-proportional pressure control				✓	✓	✓	✓	✓	✓	✓

Mechanic Interfaces

			30	45	60	75	85	100
Mounting flange	SAE J744	B (101-2)	✓	✓	✓	✓	✓	
		C (127-2)						✓
		C (127-4)				✓	✓	✓
Shaft	SAE J744/ANSI B92.1	S4 22-4 (16/32-13T)	✓	✓	✓			
		S5 25-4 (16/32-15T)		✓	✓			
		S7 32-4 (12/24-14T)				✓	✓	✓
		S9 38-4 (12/24-17T)						✓

Hydraulic Interfaces

			30	45	60	75	85	100
Pressure port	SAE J518-1	3/4 inch	✓					
		1 inch		✓	✓	✓	✓	
		1 1/4 inch						✓
Suction port	SAE J518-1	1 1/4 inch	✓					
		1 1/2 inch		✓	✓			
		2 inch				✓	✓	
		2 1/2 inch						✓

Application example



Equipment

- A 1x CPV 115
- B 1x HMV 105-02 D
- C 1x iCon CD 97-01
- D 1x MPR 85

Machine weight

12 t — 8,5 t — 28 t