

# Pilot operated check valve with pre-release

Type ERVPM NG 10 up to 63 l/min, up to 500 bar

#### **Features**

- Leakage free
- Load supported closing
- With pre-release



### Design

- Cartridge with locking screw
- Control connection
- Movable valve elements (hardened)

## **Application**

The ERVPM is used for leakage free shutoff and active opening of flow rates up to 63 l/min. Releasing takes place in two stages with a pilot pressure (unlock pressure) at port X. At low unlock pressure (from 1/10 of working pressure) opens only a smaller valve section. The complete cross section opens at  $\frac{1}{4}$  of the working pressure.

The compact design allows the integration directly to the cylinders and motors. Besides the load holding function this configuration provides a higher stiffness in the system.

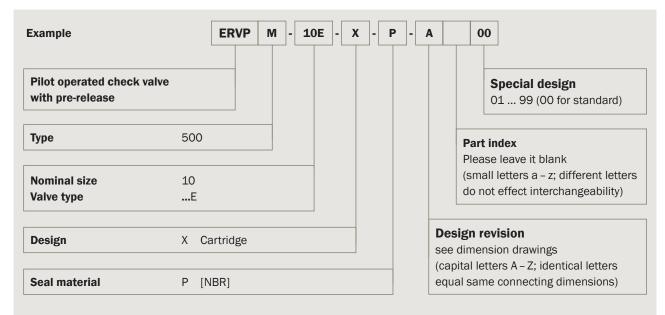
Omitting the locking screw the pilot pressure port can be tubed directly at the outer face.



#### **Technical Data**

Hydraulic fluid	Mineral oil according to DIN 51524 (other fluids on request)		
Fluid temperature range	– 25 up to 80 °C		
Ambient temperature range	– 25 up to 80 °C		
Viscosity range	5 up to 400 mm <sup>2</sup> /s		
Max. operating pressure connection A, P, X	500 bar		
Max. flow rate	63 l/min		
Filtration	According to ISO/DIN 4406 class 17/15/12		
Cracking pressure (check valve RV)	0.3 <sup>+0.1</sup> bar		
Unlock pilot pressure ratio	1. phase: 1:10 2. phase: 1:2.5		
Min. unlock pilot pressure	2.5 <sup>+0.5</sup> bar		
Pressure drop	1. phase:200 bar at 50 I/min2. phase:6 bar at 50 I/min		

# Type code



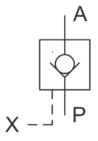
## **Product information**

Ordering code	Item description	Seal material	Weight ca. [kg]	PartNo.
ERVPM-10E-X-P-A*00	Pilot operated check valve	P [NBR]	0,066	on request

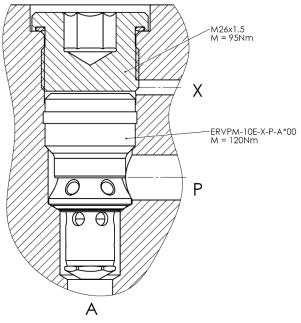
### **Accessories**

Item description	Seal material	PartNo.
Locking screw	V [FKM]	4002642

### Hydraulic symbol



#### Mounting

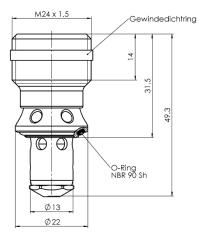




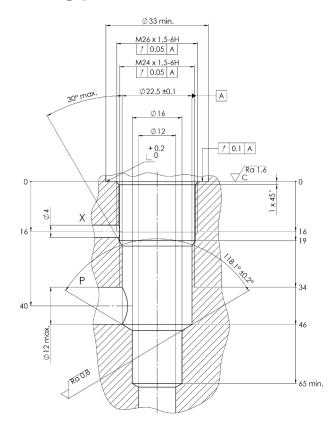
NG 10 up to 63 l/min, up to 500 ba

#### **Dimensional drawing**





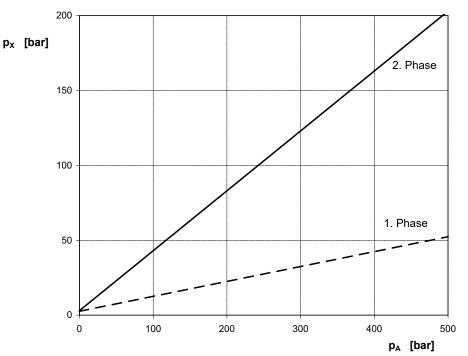
#### **Mounting space**



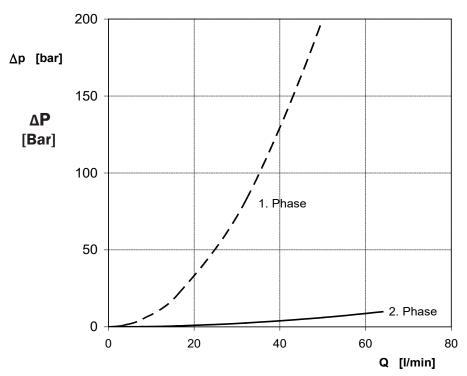


# **Characteristics**

### Unlock pilot pressure



**Pressure drop** 



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For applications and operating conditions not described, please contact the relevant technical department. Subject to technical modifications.