# MAGNETSCHULTZ

## **Proportional Pressure-Reducing** Valve for Hydraulics

V 1300.1865

- To a large extent proportional relation between solenoid current and control pressure
- Working pressure almost constant in flow range
- Small hysteresis through precise armature bearing
- Short actuating times
- Compact design
- Protection rating to DIN VDE 0470/EN 60529 if mounted properly
- Electrical connection
  Plug connector 2-pole AMP Junior Timer
  - Modifications and special designs on request
- Application examples: Particularly used as proportional actuator in hydraulic control chains and control circuits.





Product group

Pamphlet

VR 032 AA 035 V..

Fig. 1: Type VR 032 AA 035 V04



– IP 65



## **Technical data**

VR 032 AA 035		V04	V03
Hydraulic data			
Control pressure		25 bar	32 bar
Pump pressure		max. 50 bar	max. 350 bar
Tank pressure		max. 20 bar static	max. 20 bar static
Flow	$P\toA$	> 3 l/min (∆p=7 bar)	> 2 I/min (∆p=4 bar)
Flow	$A \to T$	> 3 l/min (∆p=7 bar)	> 2 l/min (∆p=6 bar)
Control flow		< 0.2 l/min	
Leakage		< 0.1 l/min	
Hysteresis (with PWM 100 Hz)		< 0.5 bar	
Medium		Hydraulic oils to DIN 51524	
Oil temperature		-20 °C to + 80 °C	
Elektrical data			
Resistance		5.0 Ω (12 V)	5.3 Ω (12 V)
		20.5 Ω (24 V)	22 Ω (24 V)
Limit current		1.5 A (12 V)	1.5 A (12 V)
		0.75 A (24 V)	0.75 A (24 V)
Operating mode		S1 (100 %)	
Protection rating		IP 65	
Ambient temperature		-30° C to+ 90° C	

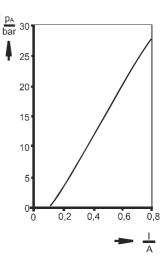


Fig. 2: Pressure-control graph for solenoid valve for hydraulics type VR 032 AA 035 V04 (24V)

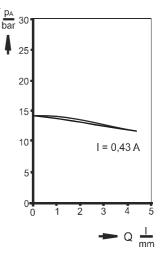


Fig. 3: Flow graph for solenoid valve for hydraulics type VR 032 AA 035 V04 (24 V)

Please find further details and definitions in our A -Technical Explanation, or respectively, in VDE 0580.

## Note on the technical harmonisation guidelines within the EU



Electromagnetic solenoids of this product range are subject to the low-voltage guideline 73 / 23 EWG.

To guarantee the targets of this regulation, products are manufactured and inspected to the valid edition of DIN VDE 0580. This also equals a declaration of conformity by the manufacturer.

## Note on the EMC (electromagnetic compatibility) guideline 89/336 EWG

Electromagnetic solenoids are not affected by this guideline because neither do they cause electromagnetic disturbances nor can they be disturbed through electromagnetic disturbances. Therefore, the adherence to the EMC guideline has to be guaranteed by the user through appropriate circuitry wiring. Examples for protection circuits can be taken from the corresponding technical documents.



### **Dimensions drawing**

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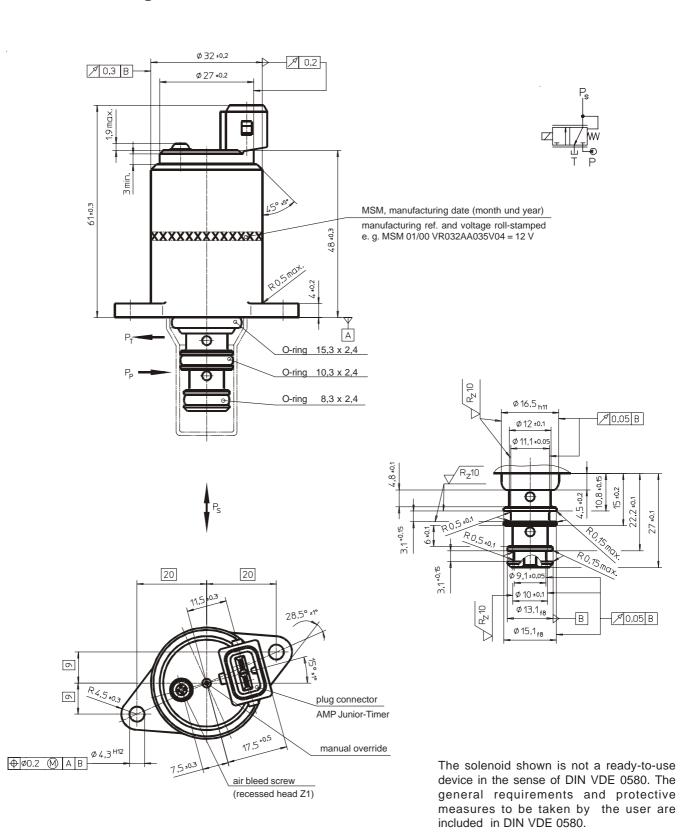


Fig. 4: Type VR 032 AA 035 V04

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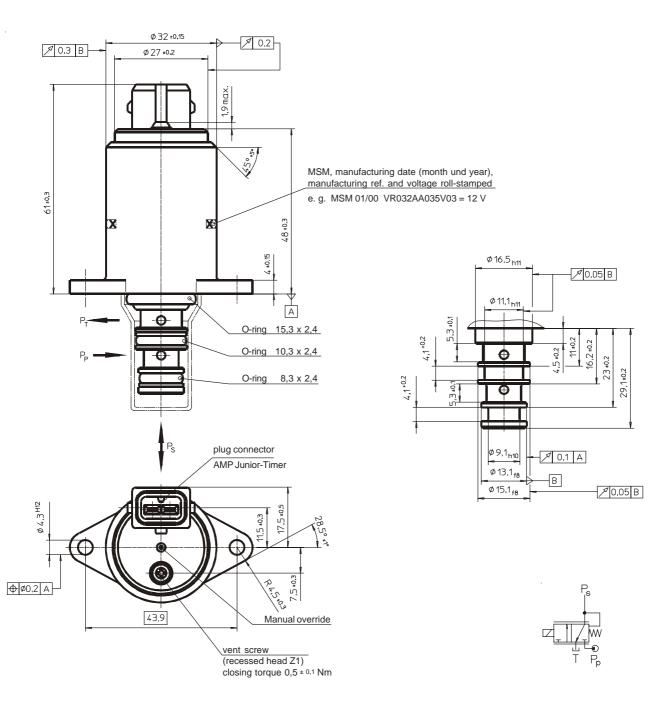


Fig. 5: Type VR 032 AA 035 V03

#### Specials

Special designs are available on request for which full application conditions should be specified in accordance with our  $\Re$  -Technical explanations.

#### Order Example

Туре	VR 032 AA 035 V04
Voltage	🗕 24 V DC
Operating mode	S1 = 100 % ED