

# Throttle check valve 500 😛

## Type SDRVM

NG 4

up to 25 I/min

#### **Features**

- Adjustable while under pressure
- · High-precision control
- Bi-directional flow



#### Design

- In manifolds
- External housing corrosion-free material
- The valve setting can be locked by a counter nut

### **Applications**

The throttle check valve SDRMV is a part of the 500+ serie and consists of adjustable throttle valves SDM and check valves RVM (size G1/4), which are integrated in a valve block. Depending on the closing direction of the check valve is a throtteling of the flow in one direction and a low-loss flow through the check valve in the other direction. Herewith it is possible to set the speed of the cylinder or motor into the requested direction. The throttle check valve is located between a seated valve and the cylinder or motor. Various versions are shown below in the different symbols.



#### **Technical data**

Hydraulic fluid	mineral oil according to DIN 51524 (other fluids on request)		
Fluid temperature range	-20 to 80 °C		
Ambient temperature range	-30 to 50 °C		
Viscosity range	5 to 420 mm <sup>2</sup> /s		
Porting	NG 4		
Max. operating pressure port 1	700 bar		
Max. operating pressure port 2	700 bar		
Max. flow rate	25 I/min		
Pressure loss	at 12 l/min (fully open) and 32 mm²/s: 35 bar at 25 l/min (fully open) and 32 mm²/s: 155 bar		
Filtration (recommendation)	Class 17/15/12 according to ISO/DIN 4406		
Materials	Manifold: corrosion-free material Cartridge body: hardened corrosion-free steel Check valve housing: hardened corrosion-free steel Supporting ring: PTSM		

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### **Key sheet**



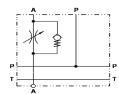


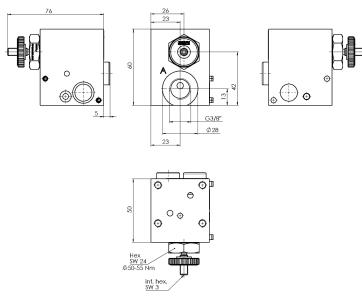
### **Product information**

# In manifold for valve bank with 2/2-way seated valve

Тур	Arikelnummer
SDRVM-4B-G3/8AR22-V-A*00	4140132

### Hydrauli schematics

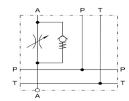


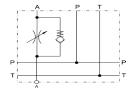


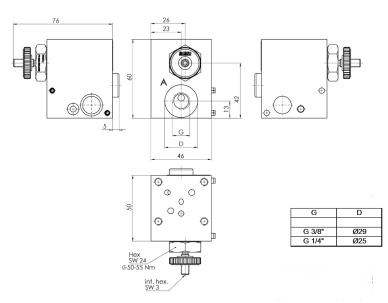
# In manifold for valve bank with 3/2-way seated valve

Туре	Part number
SDRVM-4B-G1/4AR32-V-A*00	3831322
SDRVM-4B-G3/8AR32-V-A*00	3831323
SDRVM-4B-G1/4AV32-V-A*00	3831324
SDRVM-4B-G3/8AV32-V-A*00	3831335

#### **Hydrauli schematics**





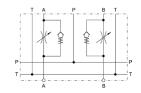


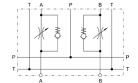
NG 4 up to 25 l/min

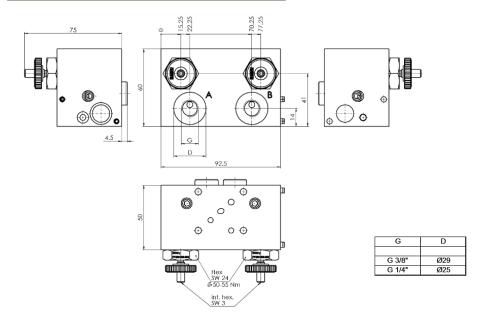
# In manifold for valve bank with 4/2-way seated valve

Туре	Article number
SDRVM-4B-G1/4ABR42-V-A*00	3831302
SDRVM-4B-G3/8ABR42-V-A*00	3831304
SDRVM-4B-G1/4ABV42-V-A*00	3831315
SDRVM-4B-G3/8ABV42-V-A*00	3831316

### **Hydraulic schematics**





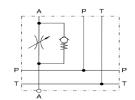


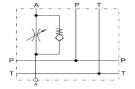
NG 4

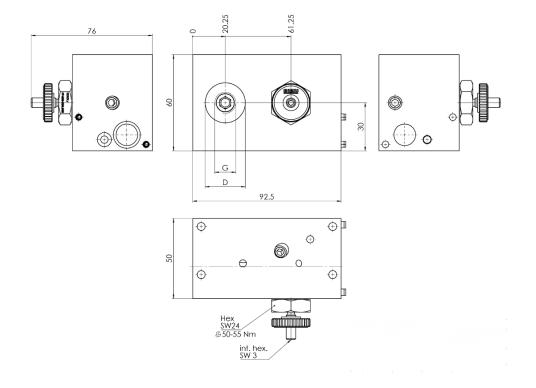
# In manifold for valve bank with 3/3-way seated valve

Туре	Part number
SDRVM-4B-G1/4AR33-V-A*00	3831318
SDRVM-4B-G3/8AR33-V-A*00	3831319
SDRVM-4B-G1/4AV33-V-A*00	3831320
SDRVM-4B-G3/8AV33-V-A*00	3831321

### Hydrauli schematics





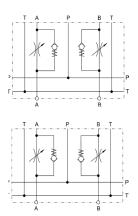


G	D
G 3/8"	Ø29
G 1/4"	Ø25

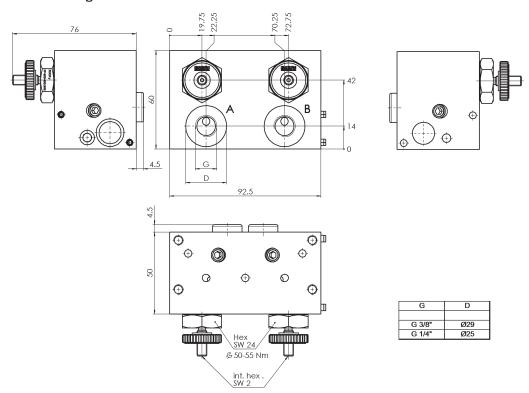
# In manifold for valve bank with 4/3-way seated valve

Туре	Part number
SDRVM-4B-G1/4ABR43-V-A*00	3831297
SDRVM-4B-G3/8ABR43-V-A*00	3831299
SDRVM-4B-G1/4ABV43-V-A*00	3831300
SDRVM-4B-G3/8ABV43-V-A*00	3831301

#### **Hydraulic schematics**



#### **Dimensional drawing**



NG 4 up to 25 l/min

#### **Pressure loss chart for check valve RVM**

Screw-in thread	Version	Max. flow rate I/min	Pressure loss at max. flow rate
G1/4	А	25	3 bar
G1/4	R	20	8 bar

### **Characteristics** Δp (Q) (fully open)

