

Miniature pressure reducing valves type ADC, AM etc.

The task of pressure-reducing valves is to maintain a largely constant outlet pressure despite a higher and changing inlet pressure. These valves are used when a secondary circuit has to be fed with a lower but constant pressure level by a main (primary) oil circuit with a higher and varying pressure level. The valves mentioned here are suitable for the supply of control circuits with low oil consumption. There is a design-related permanent leakage flow, which has to be led back to the tank in a de-pressurized line via port R. A reversal of the flow direction is possible up to approx. 30% of Q_{\max} . A bypass check valve has to be provided for higher reversed flow. These pressure-reducing valves feature an override compensation, i.e. acting like a pressure-limiting valve, if the pressure on the secondary side exceeds the set pressure e.g. due to external forces.

Features and benefits:

- Compact design
- Numerous configurations

Intended applications:

- For control oil supply in pilot circuits



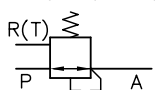
Nomenclature:	Pressure reducing valve
Design:	Screw-in valve Valve for pipe connection
Adjustment:	Fixed (non-adjustable)
$p_{\max P}$:	300 ... 400 bar
$p_{\max A}$:	15 ... 100 bar
Q_{\max}:	2 ... 10 lpm

Design and order coding example

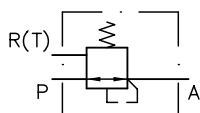
ADC 1	- 25	- 1/4	
			Design
			<ul style="list-style-type: none"> ■ Cartridge valve ■ Design with housing for direct pipe connection ■ Version with housing for manifold mounting (type AM 11)
			Pressure downstream Pressure at port A [bar]
Basic type	Type ADC, AM		
	Type ADM, ADME		
			<ul style="list-style-type: none"> ■ Type ADM 1 adjustable version available

Function

ADC, AM, ADM, ADME



Screw-in valve

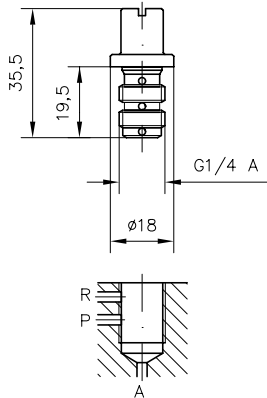


Pipe installation

General parameters and dimensions

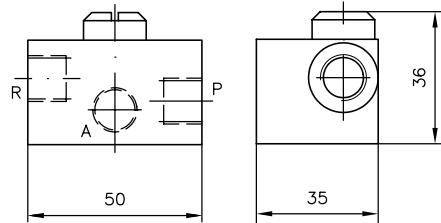
ADC 1-.25

Pressure reducing valve type ADC 1, screw-in valve, pressure at A approx. 25 bar

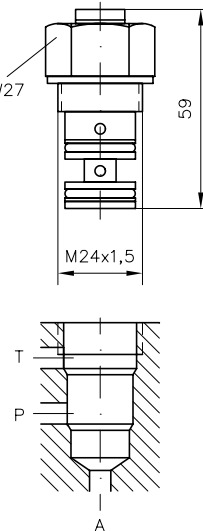


AM 1 - 20 -1/4

Pressure-reducing valve type AM 1, version for pipe connection (ports G 1/4 (BSPP)), pressure at A approx. 20 bar

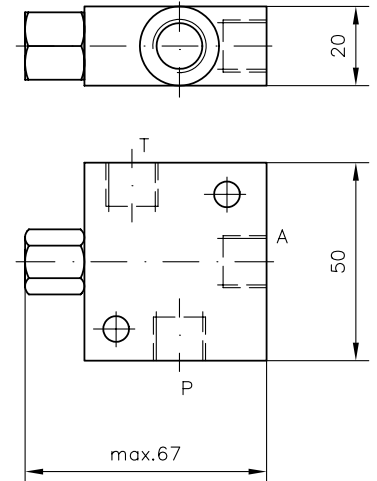


ADME 1-...



ADM 1-70

Pressure-reducing valve type ADM 1, version for pipe connection, pressure at A approx. 70 bar



	Q_{\max} [lpm]	p_{\max} [bar]	Outlet pressure [bar] at A	Ports (BSPP) ¹⁾	m_{\max} [kg]	
						Screw-in valve
ADC 1	2	300	15, 25	G 1/4	0.03	Pipe installation
AM 1	2	400	20, 30, 40, 100	G 1/4	0.03	
ADM 1	8 ...10	300	15, 20, 30, 70	G 1/4	-	
ADME	8	300	15, 20, 30	-	0.05	

1) In version for pipe connection only

Associated technical data sheets:

■ Miniature pressure-reducing valves type ADC etc.: [D 7458](#)

■ Prop. pressure-reducing valves type PDM: [D 7486](#), [D 7584/1](#)

■ Miniature prop. pressure-reducing valves type PM, PMZ: [D 7625](#)

Similar products:

■ Pressure-reducing valves type ADM, VDM: [D 7120](#), [D 5579](#)

■ Pressure-reducing valves type CDK: [D 7745](#)