

# Miniature pressure reducing valves type ADC, AM etc.

The task of pressure reducing valves in a hydraulic circuit is to maintain a rather constant outlet pressure despite a higher and changing inlet pressure. These valves are usually used when a secondary circuit has to be fed with a lower but constant pressure level by a main (primary) circuit with a higher and varying pressure level. These valves are intended for the supply of control circuits with low flow requirements.

There is a design related permanent leakage flow, which has to be led back to the tank via a de-pressurized line. A reversal of the direction of



flow is possible up to approx. 30% of  $Q_{max}$ . A by-pass check valve has to be provided for higher reversed flow. These pressure reducing valves feature a 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.

Nomenclature:	Pressure reducing valve		
Design:	Screw-in valve Valve for pipe connection		
Adjustability:	Fixed (non-adjustable)		
P <sub>max P</sub> : P <sub>max A</sub> :	300 400 bar 15 70 bar		
Q <sub>max</sub> :	2 10 lpm		

## Basic types and general parameters

Basic type	ADC 1	AM 1	<b>ADM 1</b> 1)	ADME 1	Sym	nbol
Flow Q <sub>max</sub> (lpm)	2	2	8 10	8	Screw-in valve	Pipe installation
Max. inlet pressure p <sub>max</sub> (bar) at P	300	400	300	300	R(T) ≷	R(T)   \$
Outlet pressure	15	20	15	15	Р [] А	
(bar) at A	25	30	20	20		
		40	30	30	1) Only in version for	nine connection
		60	70		Version for pipe connection	
Tapped ports (BSPP) 2)	G 1/4	G 1/4	G 1/4	_		

## **Additional versions**

- Type AM 1 also available as manifold mounting valve
- Type ADM 1 also available with manual adjustment

#### **Order examples**

#### ADC 1 - 25

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

# **ADM 1 - 70**

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

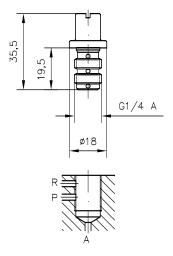
#### AM 1 - 20 - 1/4

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

### **Dimensions**

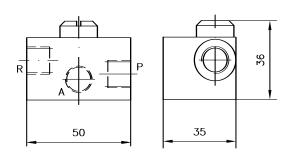
# Type ADC 1-...

(see order example)

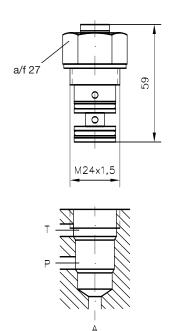


# Type AM 1 - ...-1/4

(see order example)

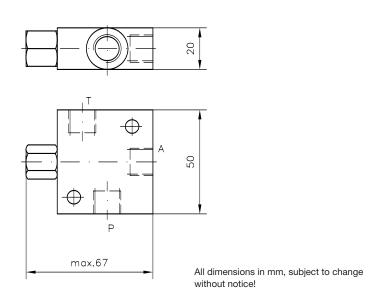


Type ADME 1



# Type ADM 1-...

(see order example)



Basic type	m (	(kg)
	Screw-in valve	Design for pipe connection
ADC 1	0.03	0.32
AM 1	0.03	0.3
ADM 1	-	0.34
ADME 1	0.05	_

# **Additional information**

Miniature pressure reducing valves type ADC etc.
 Pressure reducing valves type ADM
 D 7458
 D 7120

type VDM D 5579 type CDK D 7745

- Prop. pressure reducing valves type PDM D 7584/1, D 7486
- Miniature prop. pressure reducing valves type PM, PMZ D 7625
- See also section "Devices for special applications" (Screw-in valves and installation kits)

For page and section of the devices additionally listed, see type index