

Unloading valve 500 🛨

Type DAM

NG 4

up to 40 l/min

Features

- Adjustable over the entire pressure range
- Zinc plated body (cartridge)



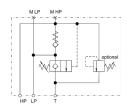
Design

- · Seated valve
- · Directly operated
- In manifold only

Applications

The unloading valve DAM is a part of the 500+ series and is integrated together with a check valve into a valve block. The unloading valve is used with a low pressure (LP) and a high pressure pump (HP) in a dual-pressure-system. They both supply the same working port. The valve unloads the low pressure pump flow at a set pressure to the tank.

Before the switchover both pumps supply the working port. After the switch over the low pressure pump flow is connected loss-free to the tank. The working port is supplied by the high pressure pump only.

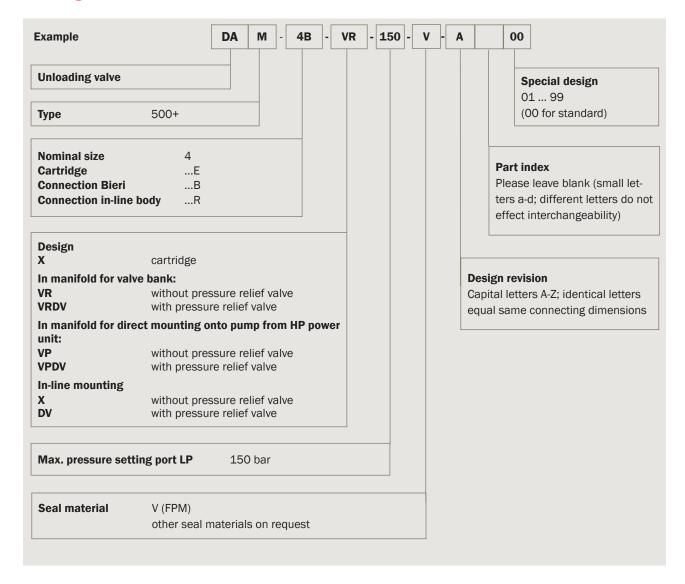


Technical data

Hydraulic fluid	mineral oil according to DIN 51524 (other fluids on request)	
Fluid temperature range	-20 to 120 °C	
Ambient temperature range	-20 to 120 °C	
Viscosity range	10 to 400 mm ² /s	
Porting	NG 4	
Max. operating pressure port HP	700 bar	
Max. operating pressure port LP	150 bar	
Pressure setting range port LP	25 to 150 bar	
Max. flow rate	40 l/min ⁻	
Filtration (recommendation)	class 21/19/16 according to ISO/ DIN 4406	
Pressure loss (LP->T)	3 bar (at 25I/min and 32 mm ² /s)	
Weight	0.28 kg (cartridge only)	
Materials	Cartridge body: Free-cutting steel, zinc plated Cone: Hardened steel Manifold: Corrosion-free steel Back up ring: PTFE	

NG 4

Ordering code

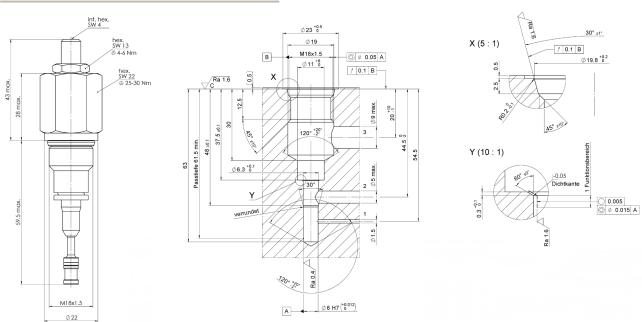




Product information

Cartridge

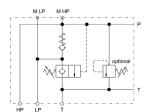
Туре	Part number
DAM-4E-X-150-V-A*00	3958418



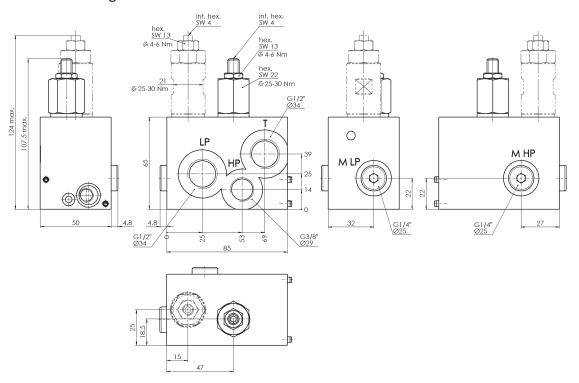
In manifold for valve bank

Туре	Part number
DAM-4B-VR-150-V-A*00	3830757
DAM-4B-VRDV-150-V-A*00	3830759

Hydraulic schemantic



Dimensional drawing



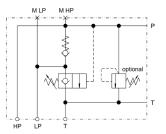
NG 4 up to 40 l/min

In-line mounting

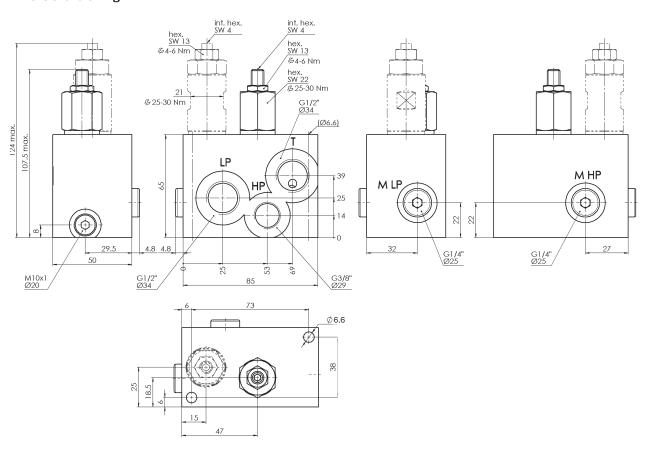
Туре	Part number
DAM-4R-X-150-V-A*00	3830758
DAM-4R-DV-150-V-A*00	3830762

Note: HP to be connected with high pressure pump and system (T-piece). If the optional relief valve is not applied, another seperate HP-relief valve must be installed. Also a low pressure relief valve must be installed.

Hydraulics schematics



Dimensional drawing

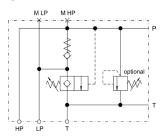


In manifold for direct mounting onto pump for valve bank

Туре	Part number
DAM-4B-VP-150-V-A*00	3830760
DAM-4B-VPDV-150-V-A*00	3830761

Dimensional drawing available upon request

Hydraulic schematics



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Könizstrasse 274 CH-3097 Liebefeld Tel. +41 31 970 09 09 | Fax +41 31 970 09 10 info@bierihydraulics.com | www.bierihydraulics.com The information in this brochure relates to the operating conditions and applications described.

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

Subject to technical modifications.