

# Unloading valve

## Type DAM

NG 4 Bieri up to 40 l/min, up to **500 bar** 

#### **Features**

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



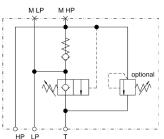
#### **Applications**

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.

#### Design

- Seated valve
- · Directly operated
- In manifold only
- The unloading valve DAM is a part of the 500 bar series and is integrated together with a check valve into a valve block

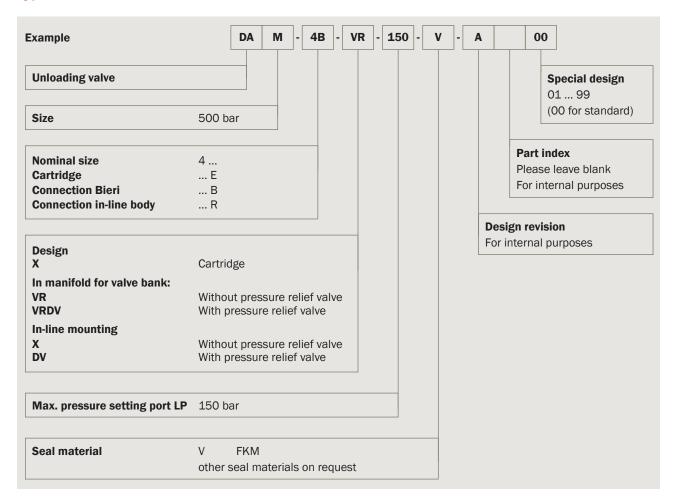


#### **Technical data**

Mineral oil according to DIN 51524 (other fluids on request)		
-20 to 120 °C		
-20 to 120 °C		
10 to 400 mm <sup>2</sup> /s		
NG 4 according to Bieri standard		
700 bar		
150 bar		
25 to 150 bar		
40 l/min		
According to NAS 1638 class 6 resp. ISO/ DIN 4406 17/15/12		
3 bar (at 25I/min and 32 mm <sup>2</sup> /s)		
See standard design		
Cartridge body: Cone: Manifold: Back up ring:	Free-cutting steel, zinc plated Hardened steel Corrosion-free steel PTFE	
	(other fluids on re20 to 120 °C -20 to 120 °C -20 to 120 °C -10 to 400 mm²/s NG 4 according to 700 bar -150 bar -25 to 150 bar -40 l/min	

NG 4 Bieri

#### **Type code**



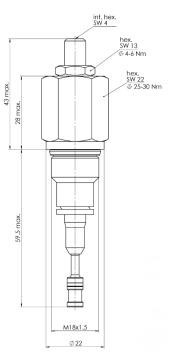
## **Standard design**

Connection	4E		4B	
Design	х		VR	VRDV
Type code	DAM-4E-X-150-V-A*00		DAM-4B-VR-150-V-A*00	DAM-4B-VRDV-150-V-A*00
Part No.	3958418		3830757	3830759
Symbol	P		MLP MHP	MLP MHP P
Weight	0.18 kg		0.20 kg	0.34 kg
Connection	4R			
Design	Х	DV		
Type code	DAM-4R-X-150-V-A*00	DAM-4R-DV-150-V-A*00		
Part No.	3830758	3830762		
Symbol	MLP MHP	MLP MHP		
Weight	0.20 kg	0.34 kg		

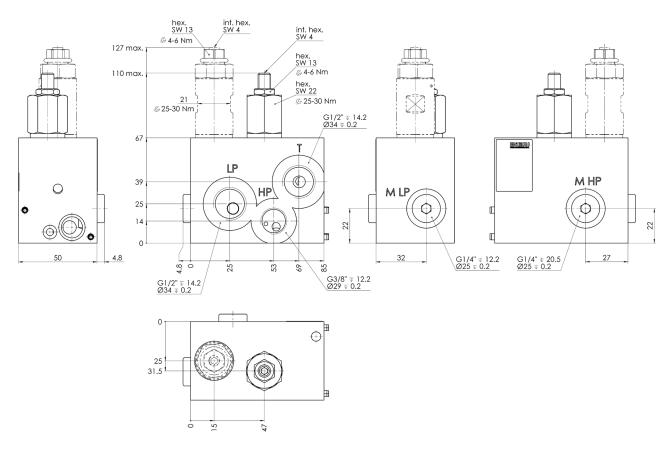
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### **Dimensional drawings**

## Cartrigde



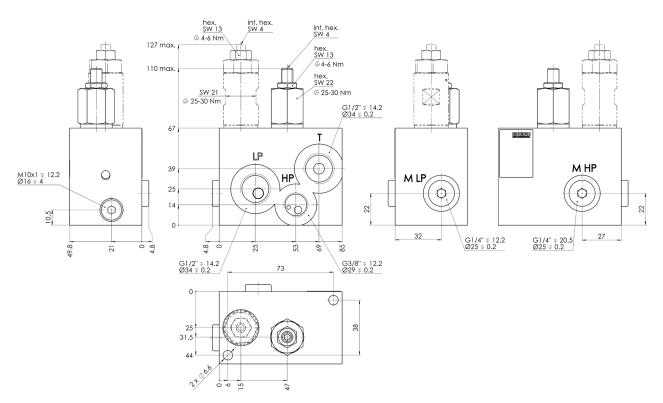
#### In manifold for valve bank





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#### In-line mounting



**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.

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.