

# Pressure relief valves

Type DV700 NG 4 Bieri and NG 6 ISO up to 700 bar

## **Features**

- Direct operated valve
- High degree of pressure stability
- Safe operation
- Flat characteristic
- Delivered only with released spring

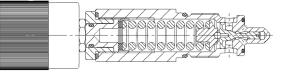


## **Applications**

Pressure limitation in a dynamic pressure system

## Design

- As cartridge
- As modular valve with one or two cartridges
- Seat construction
- The system pressure can be set to the required pressure via the adjusting spindle
- Pressure adjustment possible over the entire pressure range
- Fixing of the pre-set maximum pressure by lock nut
- Stable control behaviour thanks to damping piston



## **Technical data**

Hydraulic fluid	mineral oil accord (other fluids on re	ding to DIN 51524 equest)					
Fluid temperature range	– 20 to 80 °C	– 20 to 80 °C					
Ambient temperature range	– 30 to 50 °C						
Viscosity range	5 to 400 mm <sup>2</sup> /s						
Porting	NG 4 according to Bieri standard NG 6 according to DIN 24340/ISO 4401/CETOP RP 121 H						
Max. operating pressure connection P, A, B	700 bar						
Max. operating pressure connection T	350 bar						
Max. flow rate	NG 4 12 I/min NG 6 25 I/min						
Filtration (recommentation)	according to NAS 1638, class 6 or ISO / DIN 4406 17/15/12						
Weight	see overview "Product informations"						
Material	housing: cartridge: adjusting knob:	Steel, galvanized, chromated Steel, corrosion resistant Plastic					

# Type code

Example		DV	700	- 6	-	P -	350	]- D	-	<b>v</b> -	A		00	]
Pressure relief valv	res													Design
Size	700 bar													00 99 For internal purposes
Nominal size	6 4B											P		e leave blank
Design														ternal purposes
E Modular subplate fr	cartridge										D	esig	n rev	ision
P	P – T										F	or int	erna	l purposes
A	A – T													
В	B – T													
AB	A – T and B	– T												
PA	P – T and A	– T												
Starting block for N G1/4VR G3/8VR	G4 valve bank: connection connection	size G1												
Max. setting pressu	<b>re</b> 350 bar 700 bar													
Control method		turning ead sea		e										
Seal material	V I other seal n	FKM naterial	s on r	eques	st									



## Standard design NG4

**Control method Turning handle** Lead sealing Max. setting pressure 700 bar Design G1/4VR Part No. 4034777 4034781 p Symbol M iТ Weight 1,2 kg G3/8VR Design Part No. 4034778 4034782 Тмр · - · P Symbol M iΤ Weight 1,2 kg

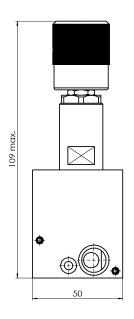
NG4

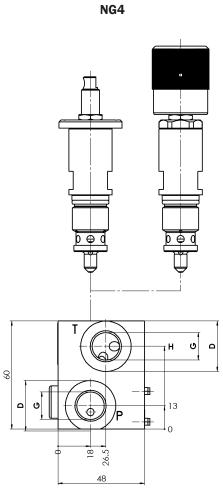


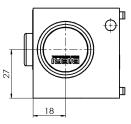
NG6

control method	Turning	g handle	Lead sealing						
Max. setting pressure	350 bar	700 bar	350 bar 700 bar						
Design		·	E	_					
Part No.	3677793	3677794	4001031	3851977					
Symbol									
Weight		0,2	2 kg						
Design		I	P						
Part No.	3677796	3677797	4054731	4031721					
Symbol									
Weight		1.6	i kg						
Design			4						
Part No.	3677780	3677783	4054732	4054733					
Symbol									
Weight		1.6	6 kg						
Design			3						
Part No.	3677789	3677791	4054734	4054735					
Symbol		A P	М т в						
Weight	1.6 kg								
Design		Α	В						
Part No.	3677786	3677787	4054736	4031925					
Symbol									
Weight	2.0 kg								
Design	PA								
Part No.	3677799	3677802	4054737	4054738					
Symbol									
Weight			) kg						

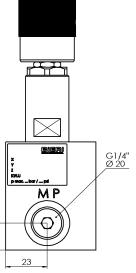
# **Dimensional drawings**







G	D	н
1/4"	Ø25	44
3/8"	Ø28	46

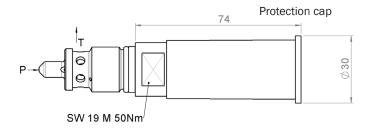


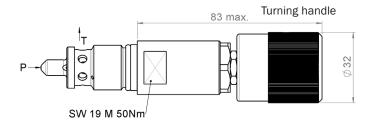
BIERI HYDAG INTERNATIONAL

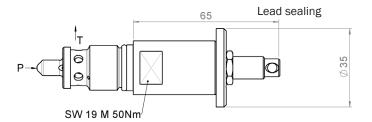
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#### NG6

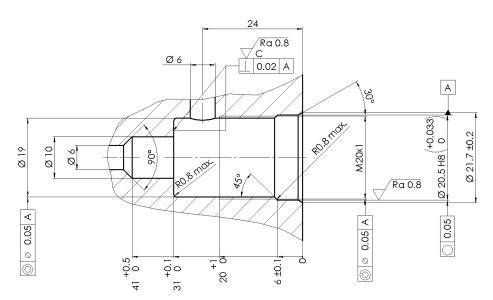






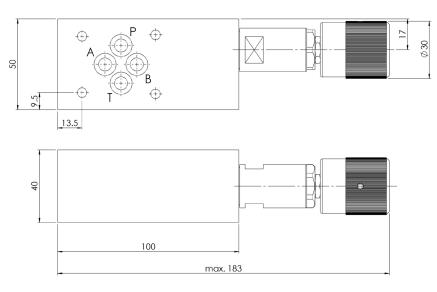




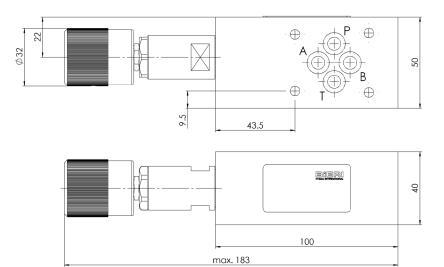




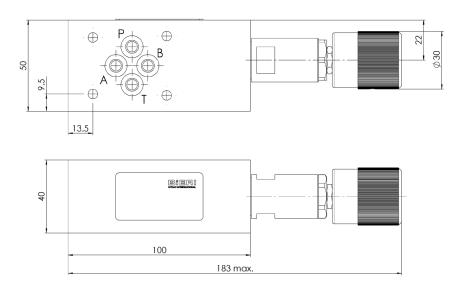
#### Modular subplate from P to T



#### Modular subplate from A to T

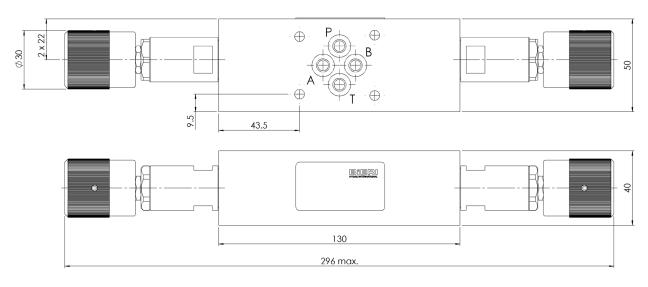


#### Modular subplate from B to T

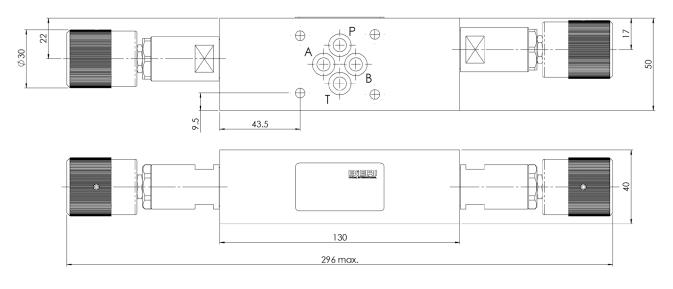




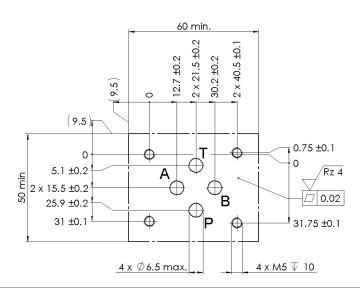
#### Modular subplate from A to T and B to T



#### Modular subplate from P to T and A to T



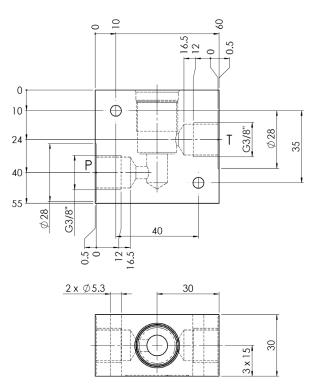
#### **Drilling pattern**



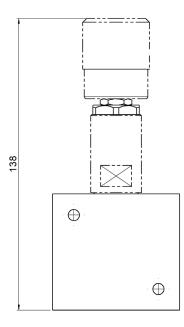
## Valve block for in-line mounting

Туре	Max. operating pressure	Part No.	
VKR-6	700 bar	3678841	

#### **Dimensional drawing**

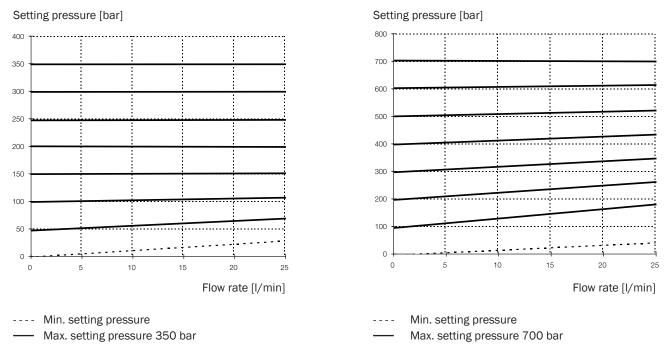


Dimensional drawing with pressure relief cartridge (Cartridge not included in scope of supply)



## **Characteristics**

Measured at v = 32 mm<sup>2</sup>/s, T = 40 °C



Tie bolts / fixation screws and subplates see technical data sheet AP700 / RP700 / EP700!

#### **Bieri Hydraulik AG**

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.