

Throttle check valve

Type SD700/SDRV700

NG 6 / 700 bar up to 25 l/min

Features

- Adjustable while under pressure
- High-precision control
- · Bi-directional flow



Design

- Cartridge alone or in manifolds
- The valve setting can be locked by a counter nut

Applications

- Moving speed of the customer can be influenced with the valves
- Throttle valves for inlet and outlet throttling
- Throttle check valves as screw-in cartridge or intermediate plate valve (for applications where the flow shall be throttled in one direction and be unthrottled in the other direction)
- Check valves as screw-in cartridge or intermediate plate valve

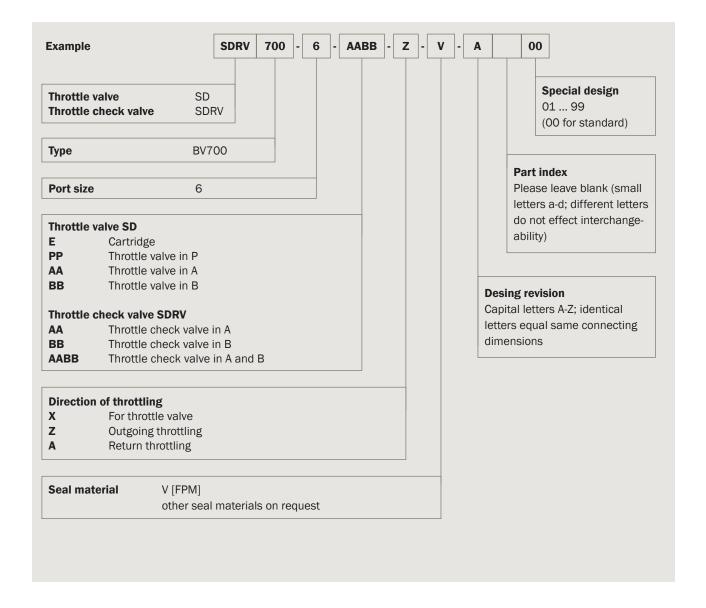


Technical data

Hydraulic fluid Mineral oil according to DIN 51524 (other fluids on request) Fluid temperature range -20 to 80 °C Ambient temperature range -30 to 50 °C Viscosity range 5 to 400 mm²/s Porting NG 6 according to DIN 24340 / ISO 4401:20 Max. operating pressure port P, A and B Max. operating pressure port T Max. flow rate 25 l/min Filtration (recommendation) According to NAS 1638, class 6 resp. ISO/DI Weight See type table Materials Steel parts: galvanized, black chromat Cartridge: steel	
Ambient temperature range -30 to 50 °C Viscosity range 5 to 400 mm²/s Porting NG 6 according to DIN 24340 / ISO 4401:20 Max. operating pressure port P, A and B Max. operating pressure port T 350 bar Max. flow rate 25 l/min Filtration (recommendation) According to NAS 1638, class 6 resp. ISO/DI Weight See type table Materials Steel parts: galvanized, black chroma	
Viscosity range 5 to 400 mm²/s Porting NG 6 according to DIN 24340 / ISO 4401:20 Max. operating pressure port P, A and B Max. operating pressure port T Max. flow rate 25 l/min Filtration (recommendation) According to NAS 1638, class 6 resp. ISO/DI Weight See type table Materials Steel parts: galvanized, black chroma	
Porting NG 6 according to DIN 24340 / ISO 4401:20 Max. operating pressure port P, A and B Max. operating pressure port T Max. flow rate 25 I/min Filtration (recommendation) According to NAS 1638, class 6 resp. ISO/DI Weight See type table Materials Steel parts: galvanized, black chroma	
Max. operating pressure port P, A and B Max. operating pressure port T Max. flow rate Filtration (recommendation) Weight Materials Too bar 350 bar 25 l/min According to NAS 1638, class 6 resp. ISO/DI See type table Materials Steel parts: galvanized, black chroma	
Max. operating pressure port T Max. flow rate 25 I/min Filtration (recommendation) According to NAS 1638, class 6 resp. ISO/DI Weight See type table Materials Steel parts: galvanized, black chroma	005 / CETOP RP 121 H
Max. flow rate 25 l/min Filtration (recommendation) According to NAS 1638, class 6 resp. ISO/DI Weight See type table Materials Steel parts: galvanized, black chroma	
Filtration (recommendation) According to NAS 1638, class 6 resp. ISO/DI Weight See type table Materials Steel parts: galvanized, black chroma	
Weight See type table Materials Steel parts: galvanized, black chromat	
Materials Steel parts: galvanized, black chroma	N 4406 class 17/15/12
Supporting ring: cast iron	red

NG 6 / 700 bar up to 25/min

Key sheet





Cartridge throttle valve

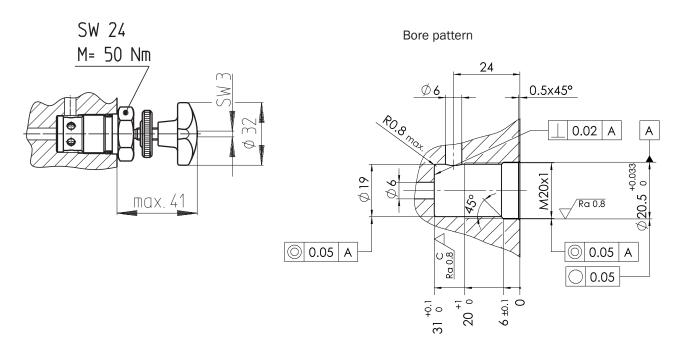
Type code	Part No.	Weight [kg]
SD700-6-E-X-V-A*00	3677847	0,12

Hydraulic schematic



Dimensional drawing

Bore dimensions



Cartridge check valve

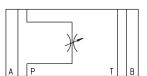
See documentation ZP700/BL700/RV700

NG 6 / 700 bar up to 25/min

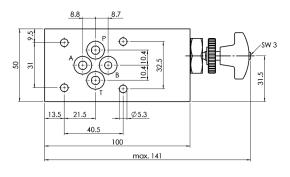
Throttle valves

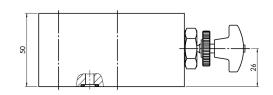
Type code	Part No.	Weight [kg]
SD700-6-PP-X-V-A*00	3677849	1,9

Hydraulic schematic



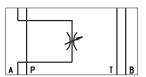
Dimensional drawing



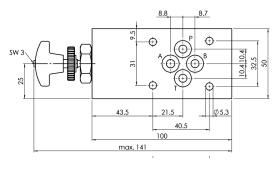


Type code	Part No.	Weight [kg]
SD700-6-AA-X-V-A*00	3677843	1,9

Hydraulic schematic



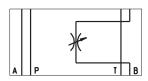
Dimensional drawing

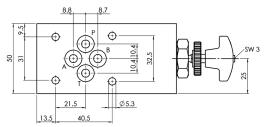


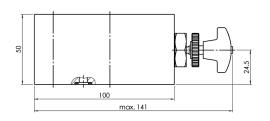
		50
--	--	----

Type code	Part No.	Weight [kg]
SD700-6-BB-X-V-A*00	3677845	1,9

Hydraulic schematic



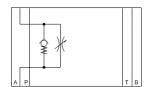




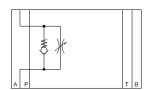
Throttle check valves

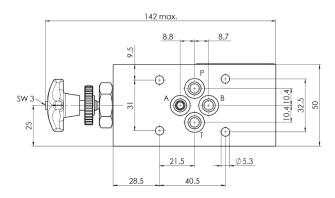
Type code	Part No.	Weight [kg]
SDRV700-6-AA-A-V-A*00	3677850	1,9
SDRV700-6-AA-Z-V-A*00	4457370	1,9

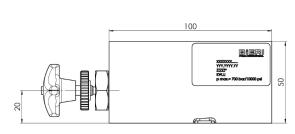
Hydraulic schematic A (Return throttling)



Hydraulic schematic Z (Outgoing throttling)



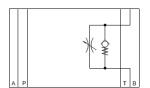




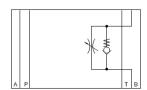
NG 6 / 700 bar up to 25/min

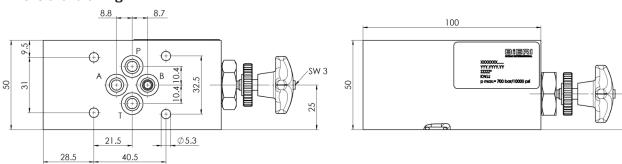
Type code	Part No.	Weight [kg]
SDRV700-6-BB-A-V-A*00	3677853	1,9
SDRV700-6-BB-Z-V-A*00	4003009	1,9

Hydraulic schematic A (Return throttling)



Hydraulic schematic Z (Outgoing throttling)

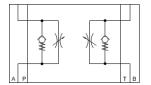




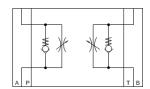


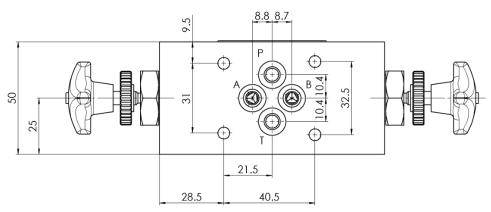
Type code	Part No.	Weight [kg]
SDRV700-6-AABB-A-V-A*00	4003013	1,9
SDRV700-6-AABB-Z-V-A*00	3823668	1,9

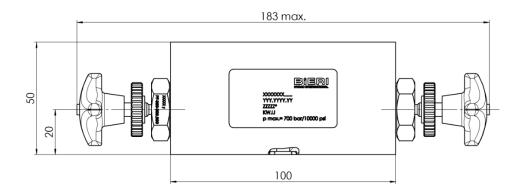
Hydraulic schematic A (Return throttling)



Hydraulic schematic Z (Outgoing throttling)

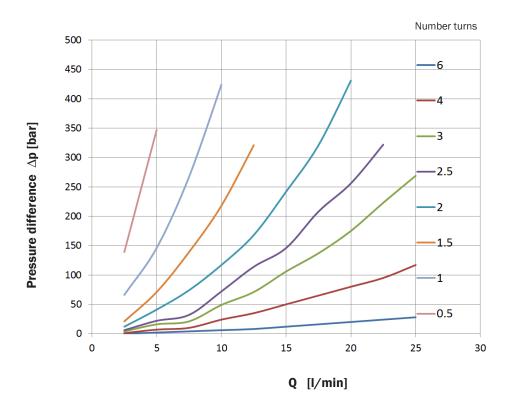






NG 6 / 700 ba up to 25/min

Characteristics Δp (Q)



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.