HYDAC INTERNATIONAL

Valves in Sandwich plate design **Nominal size 6**

DESCRIPTION

HYDAC valves in sandwich plate design with nominal size 6 allow the hydraulic control system to be designed modularly using a vertical stacking system.

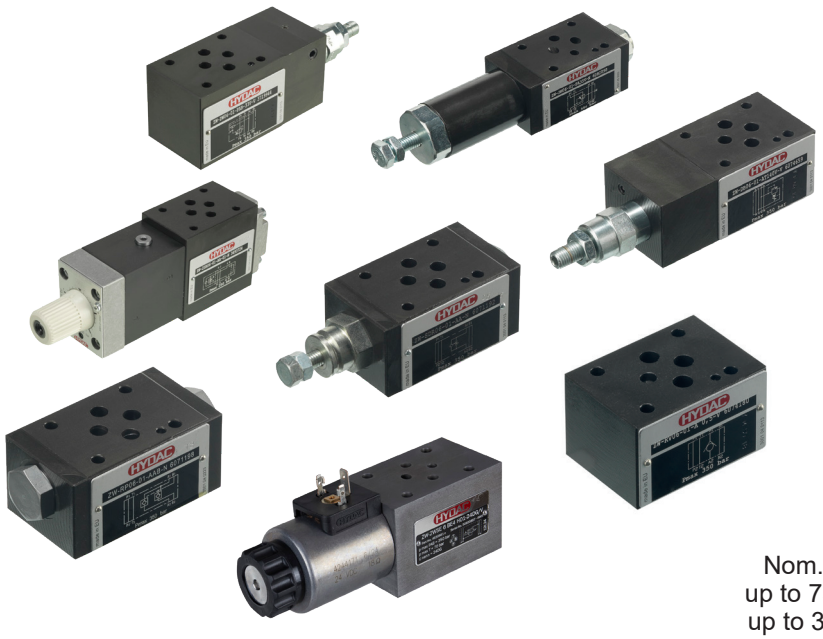
We supply them as pressure reducing valves and pressure relief valves for pressure control and as throttle or flow control valves with a bypass check valve for flow control.

The sandwich plates can also be supplied as check valves for direction control, with and without hydraulic unlocking, and as a pressure compensator for performing the flow control function.

The mounting elements will depend on the modular design of your hydraulic control system and are not included in the scope of delivery for this reason.

CHARACTERISTICS

- Available with pressure; flow; shut-off and pressure compensator function
- Modular design of the hydraulic control system
- Hole pattern to ISO 4401-03-02-0-05 (CETOP 4.2-4-03-350)



Nom. size 6
up to 75 l/min
up to 350 bar

TECHNICAL DATA

General specifications		
$MTTF_D$	150 - 1200 years, assessment according to DIN EN ISO 13849-1:2016; Table C.1, Confirmation of ISO 13849-2:2013; Tables C.1 and C.2	
Ambient temperature range	-20 °C to +60 °C	
Installation position	User-definable	
Material	Housing:	Cast iron
	Type label:	Aluminium
Coating	Valve casing:	Phosphate-plated
Hydraulic specification		
Operating pressure	350 bar	
Pressurised fluid	Hydraulic fluid according to DIN ISO 51524 Part 1, 2, 3	
Temperature range of pressurised fluid	-20 °C to +80 °C	
Viscosity	10 - 400 mm²/s	
Permitted contamination level of operating fluid	Class 20/18/15, according to ISO 4406	
Sealing material	FKM (standard), NBR optional	

Notice:
The valve mounting screws are not part of the scope of delivery.
4 cylinder screws ISO 4762 - M5 - 10.9 | The length of the valve mounting screws must be selected to match the components mounted in the vertical stacking system.

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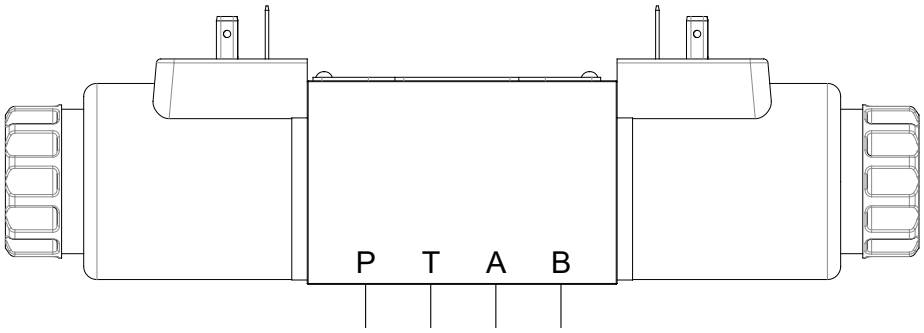

Pressure reducing valve | **ZW-DM06**... 4

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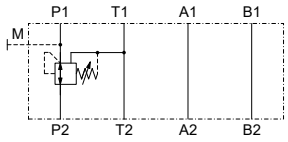

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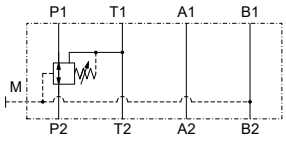

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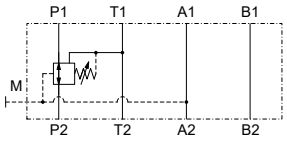
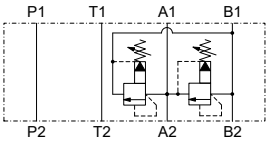


Pressure relief valve | **ZW-DB06**... 8

... AB



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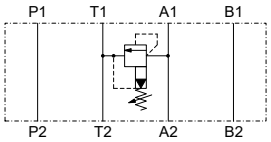

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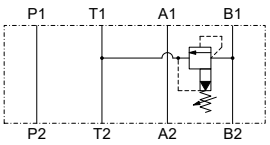

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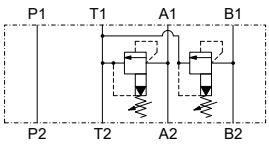

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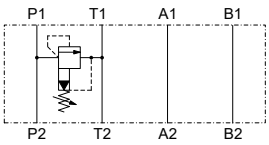
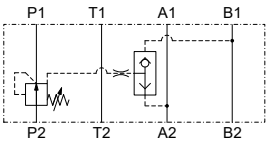


Pressure compensator | **ZW-DW06**... 12

... PAB...V (adjustable)



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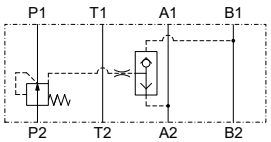

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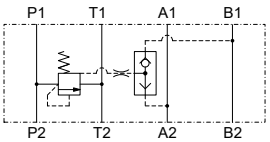

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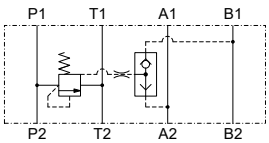
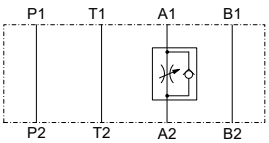


Throttle check valve | **ZW-SDR06 ...** 16

... AA



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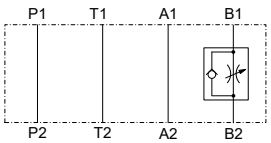

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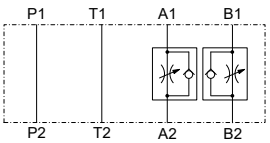

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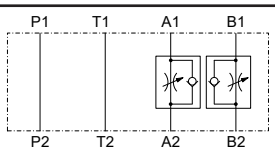

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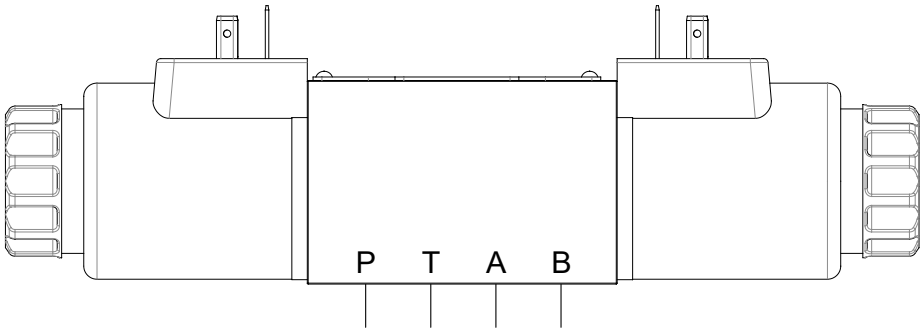
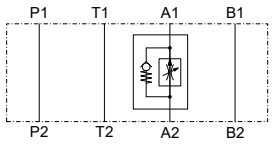


Flow control valve | **ZW-2SR06 ...** 19

... AA



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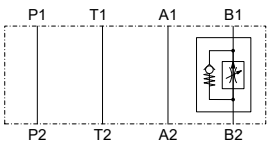

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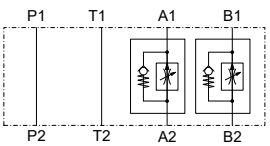

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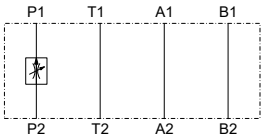

Check valve, unlockable | **ZW-RP06 ...** 22

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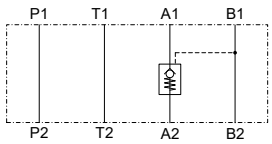

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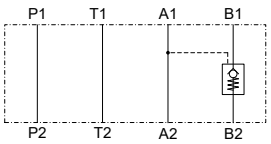

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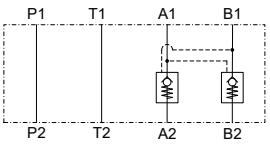
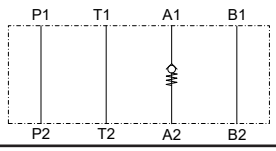


Check valve **ZW-RV06 ...** 25

... A



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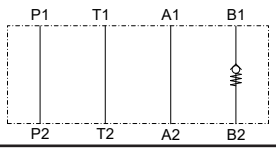

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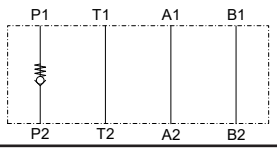

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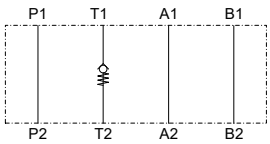

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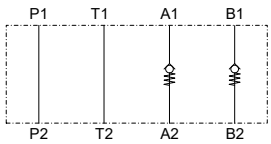

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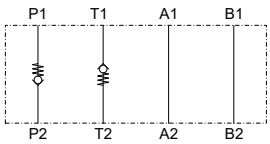

Directional poppet valve | **ZW-2WSE6 ...** 28

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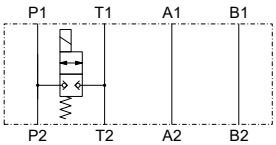

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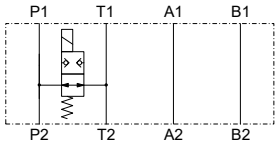


Pressure control valve in Sandwich plate design
ZW-DM06

ADDITIONAL TECHNICAL DATA[1]

General specifications	
Weight	1.4 kg
Hydraulic specifications	
Tank pressure (p_{max})	10 bar port T
Flow rate	max. 50 l/min in controlled line max. 75 l/min in free line
Leakage	≤0.08 l/min

[1] See “Conditions and Instructions for Valves” in brochure 53.000.

MODEL CODE

ZW-DM 06 01 PA-35 V N

Description
Pressure control valve in sandwich plate design, direct-acting

Nominal size (NG)
6

Series
01 = will be specified by the manufacturer

Spool symbol
PA = Pressure control in port A
PB = Pressure control in port B
PT = Pressure control in port T

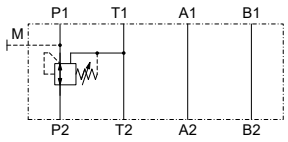
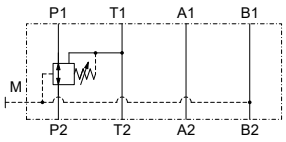
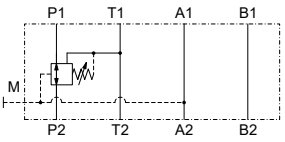
Pressure ranges
35 = 3 to 35 bar
70 = 10 to 70 bar
140 = 30 to 140 bar
280 = 60 to 280 bar

Adjustment types
V = adjustable using tool
K = adjusting knob (optional)

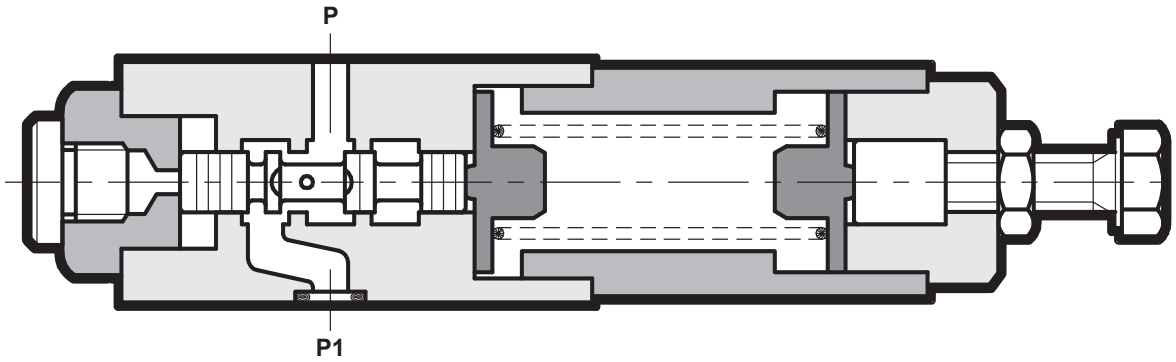
Sealing material
V = FKM (standard)
N = NBR

SYMBOL

Spool types / symbols

PT	PB	PA
		

SECTION VIEW



FUNCTION

The direct-acting pressure reducing valve in sandwich plate design with nominal size 6 is used to reduce an input pressure of P2 to a smaller output pressure P1. The pressure tapping for the reduced pressure is designed differently according to the symbol:

- reduced pressure in line A → PA
- reduced pressure in line B → PB
- reduced pressure in line P → PT

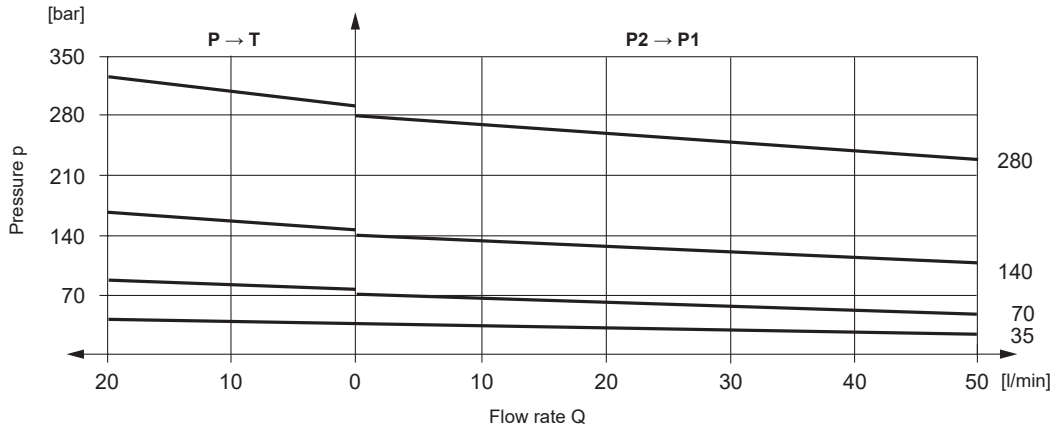
The output pressure P1 can be tapped at measuring port (M).

Notice:

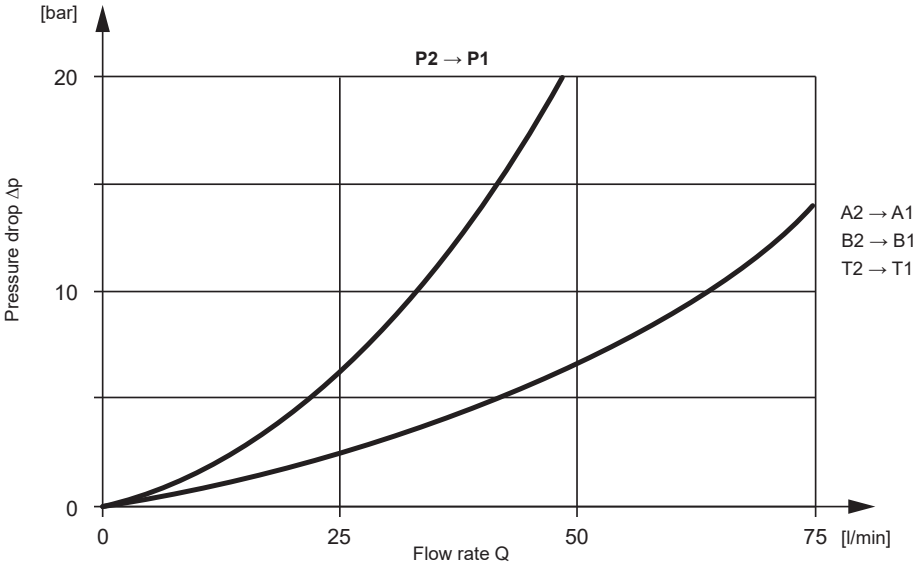
For the versions PA and PB, the pressure losses of the following components must be taken into account when selecting the input pressure.

TYPICAL PERFORMANCE

p characteristics measured at ν = 36 mm²/s, T_{Oil} = 50 °C

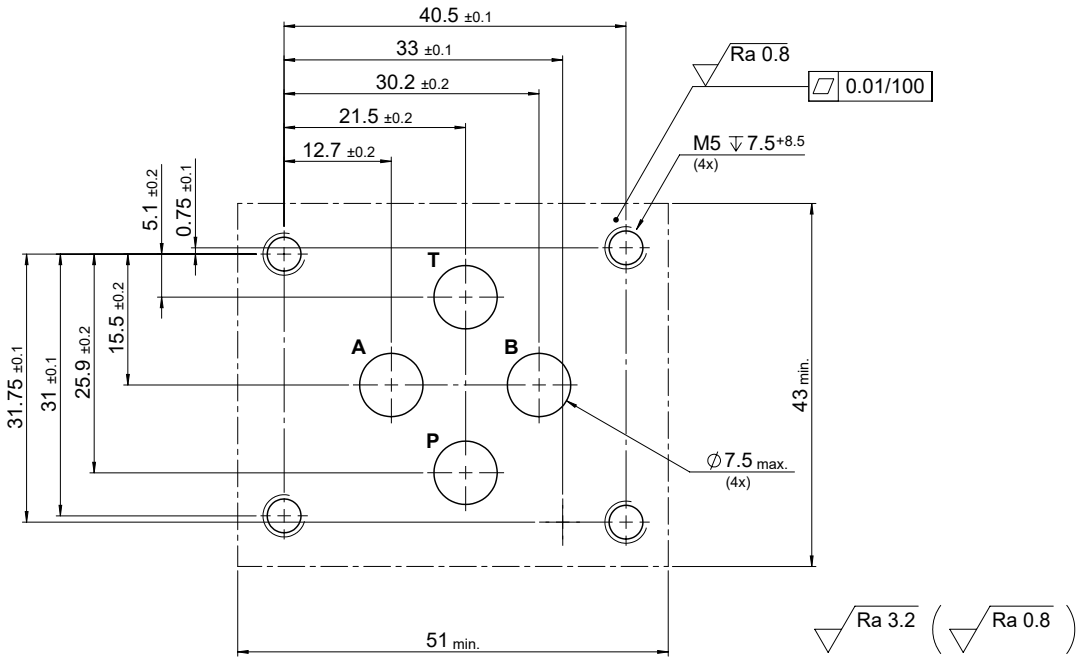


Δp/Q characteristics measured at ν = 36 mm²/s, T_{Oil} = 50 °C

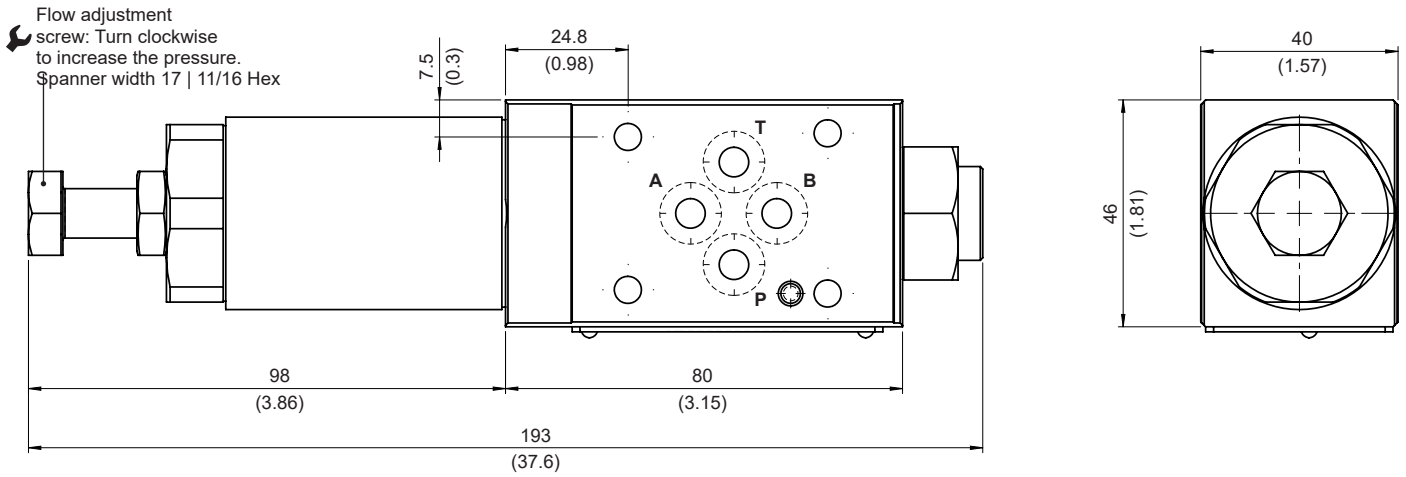


DIMENSIONS

Hole pattern to ISO 4401-03-02-0-05 (CETOP 4.2-4-03-350)

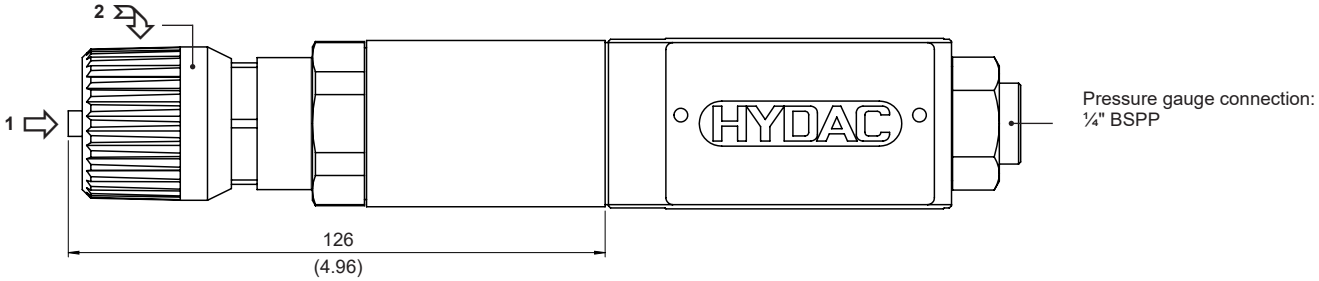


DIMENSION



Optional with adjustment type K (adjusting knob)

Setting knob, press and turn at the same time when actuating.



Pressure gauge connection:
¼" BSPP

ACCESSORIES

Spare parts, seal kits

Designation	Material	Code	Part no.
Seal kits (4-part set)	NBR	9.25 x 1.78 80 Sh	3492432
Seal kits (4-part set)	FKM	9.25 x 1.78 80 Sh	3120269

Pressure relief valve in Sandwich plate design
ZW-DB06

ADDITIONAL TECHNICAL DATA[1]

General specifications	
Weight	1.4 kg 2.1 kg (only symbol ABT)
Hydraulic specifications	
Flow rate	max. 75 l/min in controlled lines max. 75 l/min in free lines

[1] See “Conditions and Instructions for Valves” in brochure 53.000.

MODEL CODE

ZW-DB 06 01 AB-70 V N

Description
Pressure relief valve in sandwich plate design, pilot-operated

Nominal size (NG)
6

Series
01 = will be specified by the manufacturer

Spool symbol

AB = Pressure relief in port A, B	| With crossed outflows
AT = Pressure relief in port A	| Outflow in port T
BT = Pressure relief in port B	| Outflow in port T
PT = Pressure relief in port P	| Outflow in port T
ABT = Pressure relief in port A and B	| Outflow in port T

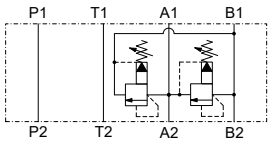
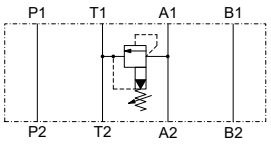
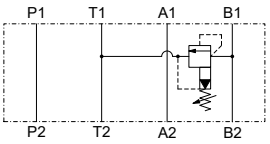
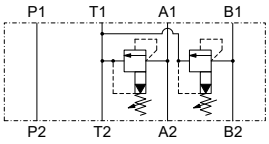
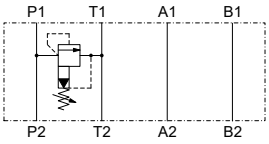
Pressure ranges
70 = to 70 bar
140 = to 140 bar
210 = to 210 bar
350 = to 350 bar

Adjustment types
V = adjustable using tool

Sealing material
V = FKM (standard)
N = NBR

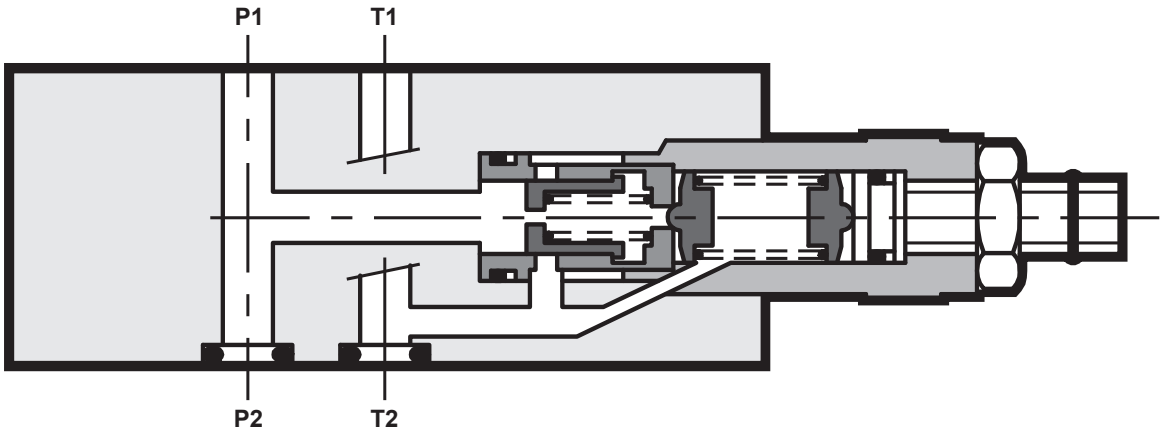
SYMBOL

Spool types / symbols

AB	AT	BT
		
ABT	**PT**	
		

SECTION VIEW

For example PT



FUNCTION

The pressure relief valve is a pilot-operated spool valve in sandwich plate design with nominal size 6 and is designed to limit the pressure in the system.

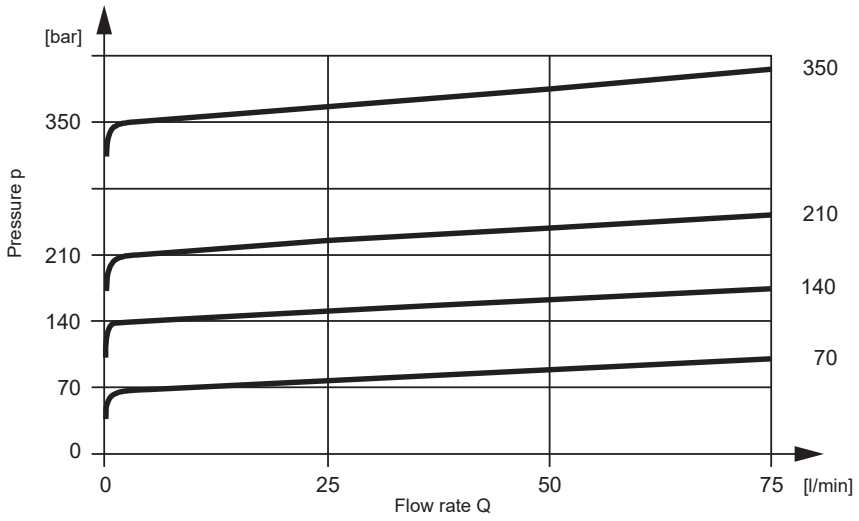
Notice: The following section applies to the PT version only.

If the pressure at port P exceeds the preset pressure, the pilot stage opens and a small volume flow passes via the pilot stage to the tank. The pressure difference created as a result of this action will cause the main spool to press against the return spring and allows oil to flow from port P to T.

TYPICAL PERFORMANCE

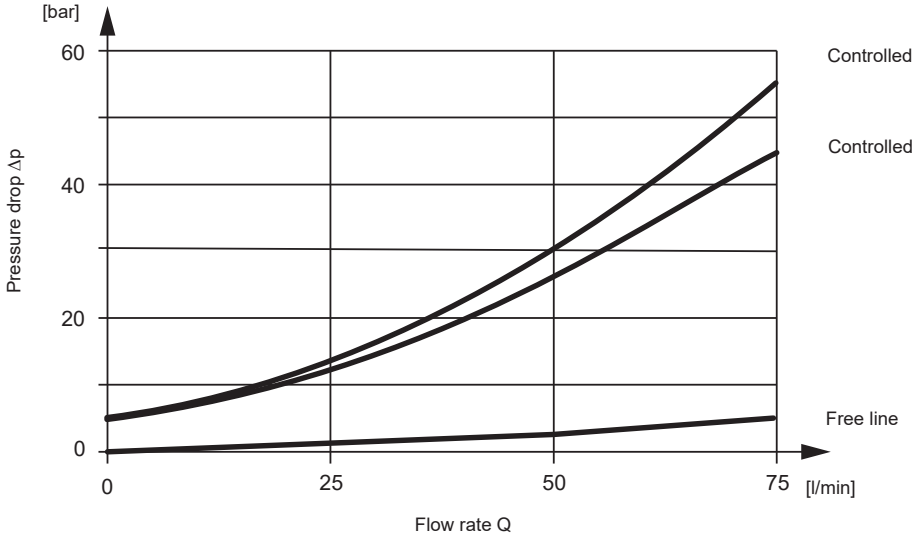
p/l characteristic measured **at** ν = 36 mm²/s, T_{Oil} = 50 °C | **Notice:** The valve is discharged to minimum set pressure when delivered.

Control



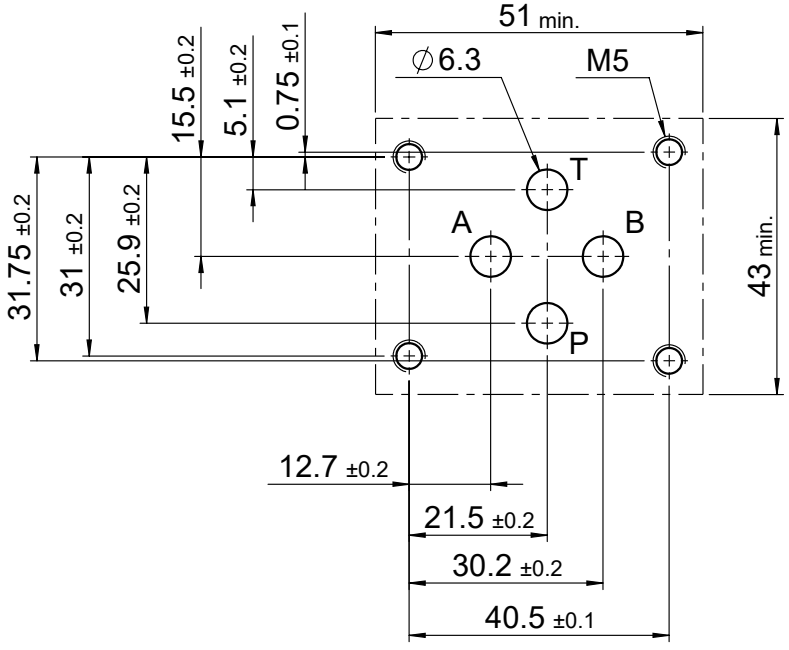
Notice:
The valve is discharged to minimum set pressure when delivered.

Pressure loss



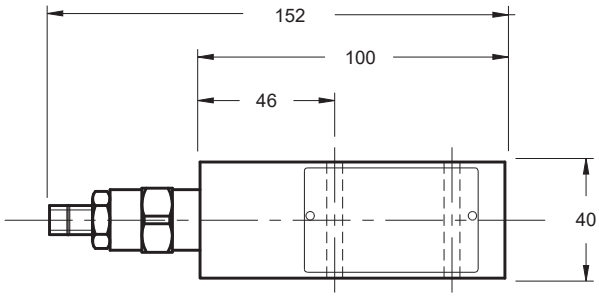
DIMENSIONS

Hole pattern to ISO 4401-03-02-0-05 (CETOP 4.2-4-03-350)

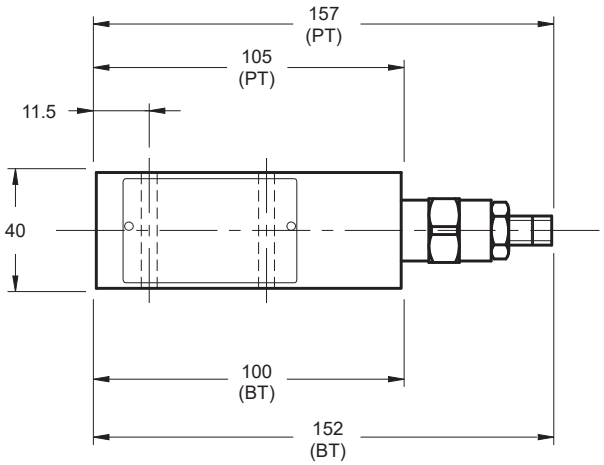


DIMENSION

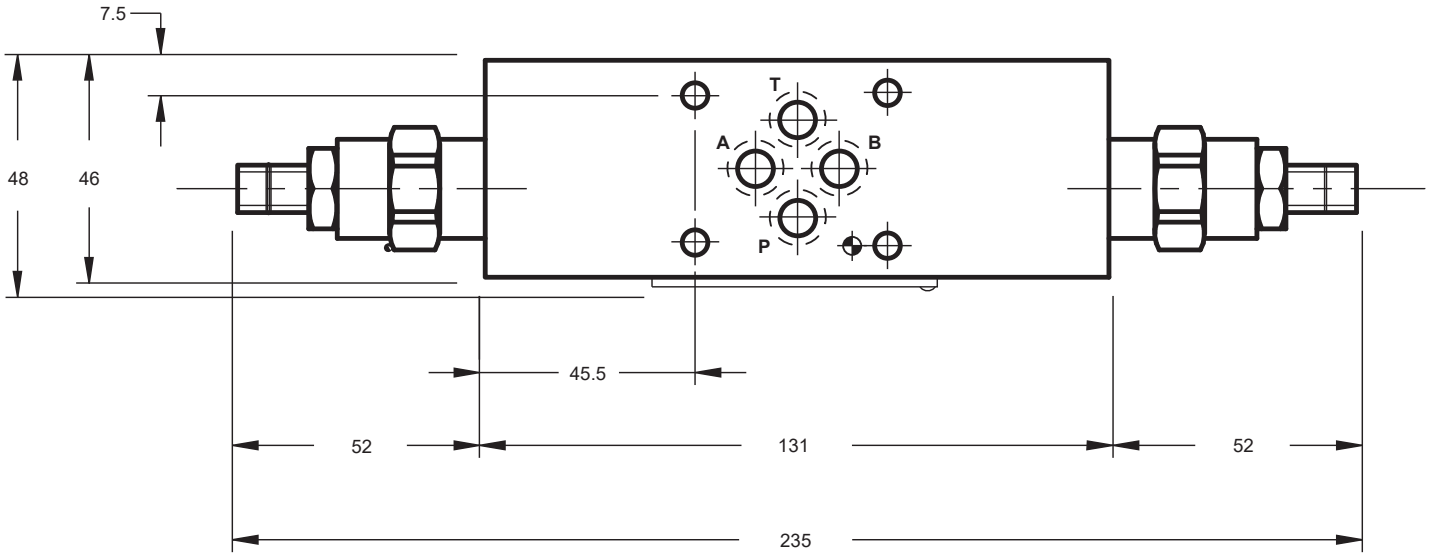
Symbol AT

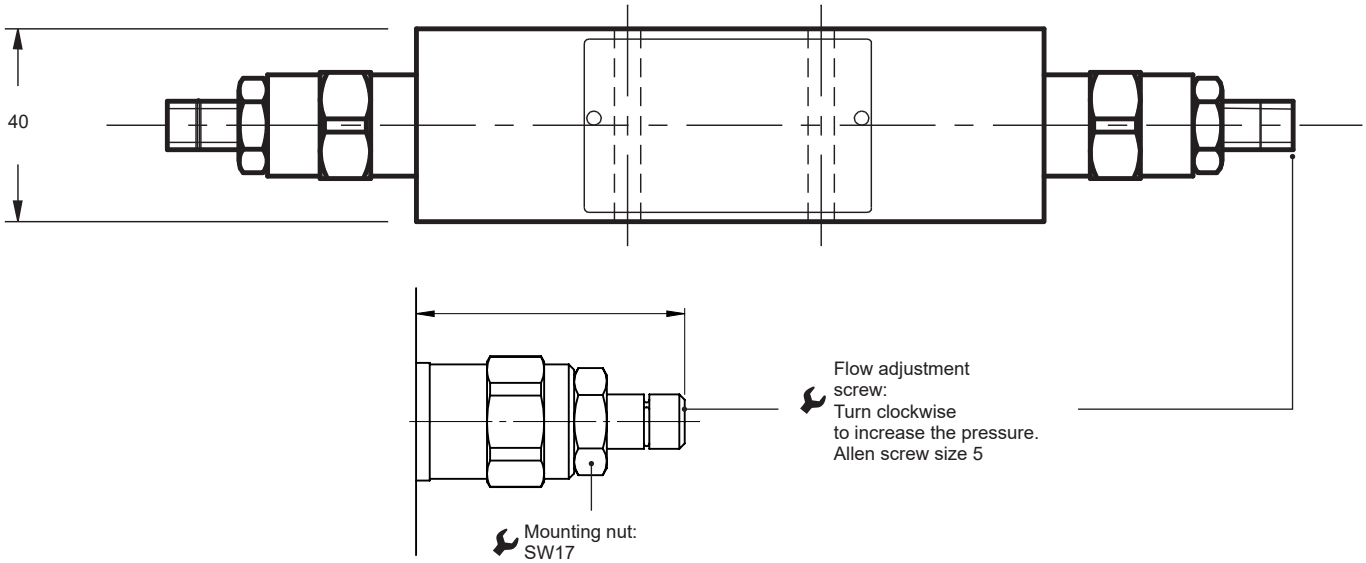


Symbol PT, BT



Symbol AB, ABT





ACCESSORIES

Spare parts, seal kits

Designation	Material	Code	Part no.
Seal kits (4-part set)	NBR	9.25 x 1.78 80 Sh	3492432
Seal kits (4-part set)	FKM	9.25 x 1.78 80 Sh	3120269

Pressure compensator in Sandwich plate design
ZW-DW06

ADDITIONAL TECHNICAL DATA[1]

General specifications	
Weight	1.5 kg
Hydraulic specifications	
Flow rate	Max. 40 l/min

[1] See “Conditions and Instructions for Valves” in brochure 53.000.

MODEL CODE

ZW-DW 06 01 PAB-33 V N

Description
Pressure compensator in sandwich plate design

Nominal size (NG)
6

Series
01 = will be specified by the manufacturer

Spool symbol
PAB = 2-way pressure compensator
PTAB = 3-way pressure compensator

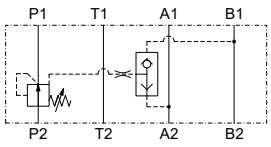
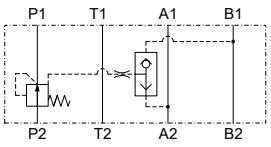
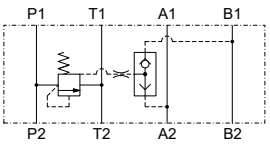
Pressure ranges
4 = to 4 bar
8 = to 8 bar
33 = 7 to 33 bar

Adjustment types
not stated = non-adjustable
V = adjustable using tool (in the pressure range 7 - 33 bar only)

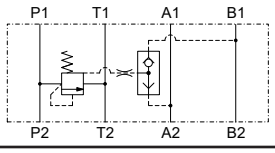
Sealing material
V = FKM (standard)
N = NBR

SYMBOL

Spool types / symbols

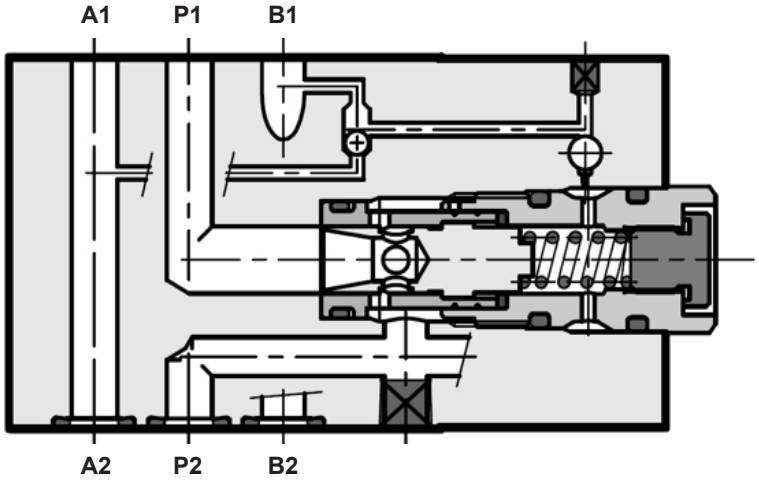
PAB...V (adjustable)	PAB	PTAB...V (adjustable)
		

PTAB



SECTION VIEW

For example PAB

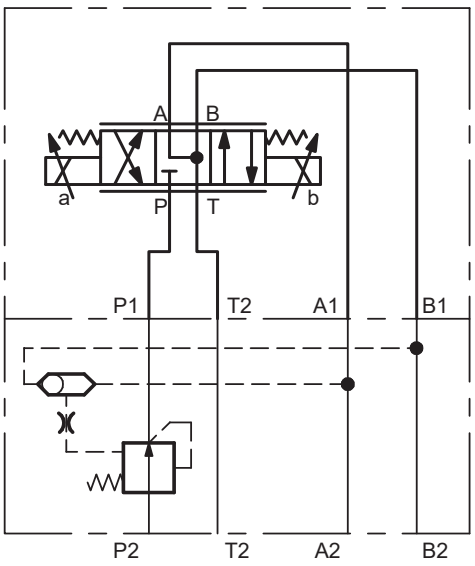


FUNCTION

The pressure compensator in sandwich plate design with nominal size 6 keeps the pressure drop constant between input P and, depending on the control of the integrated shuttle valve, either the input to the consumer port A or B. Together with a throttle or a proportional directional valve, there is a constant volume flow to the consumer at port A or B. The control pressure of the pressure compensator can be predefined using a hex socket set screw to between 7 and 33 bar. Non-adjustable pressure compensators are available with a control pressure of 4 or 8 bar.

The valve is available as a 2- or 3-way pressure compensator.
In the case of the 3-way pressure compensator, an excess volume flow is diverted to the tank port T inside the valve.

Application example:
Supply flow control to cylinder port A or B with a proportional directional valve:

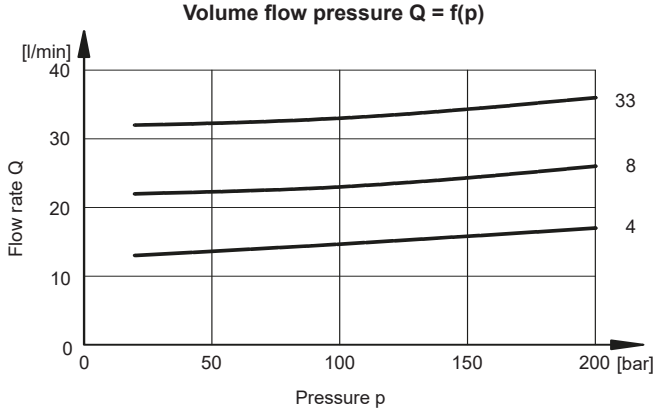


SAMPLE CHARACTERISTICS

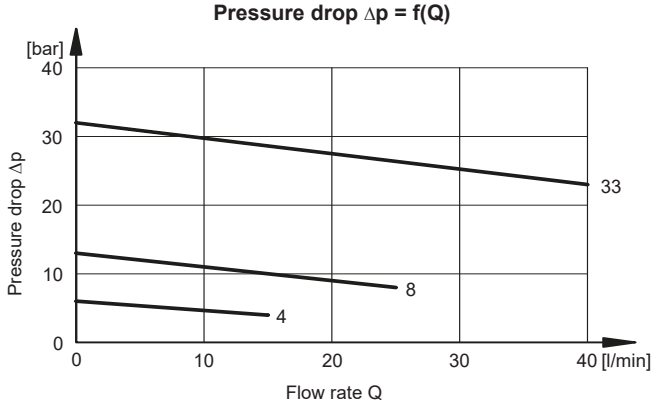
Δp/Q characteristics measured at ν = 36 mm²/s, T_{Oil} = 50 °C

2-way pressure compensator

Volume flow pressure Q = f(p)

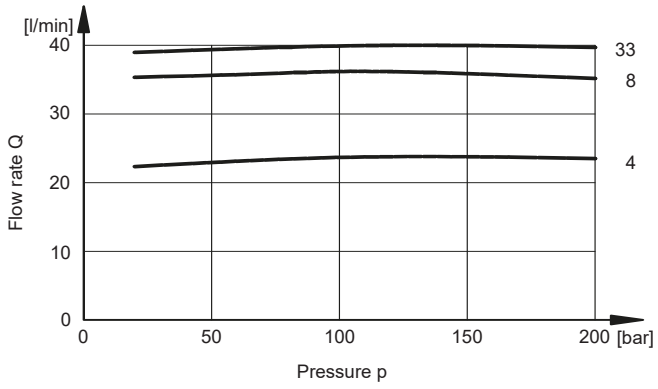


Pressure drop Δp = f(Q)

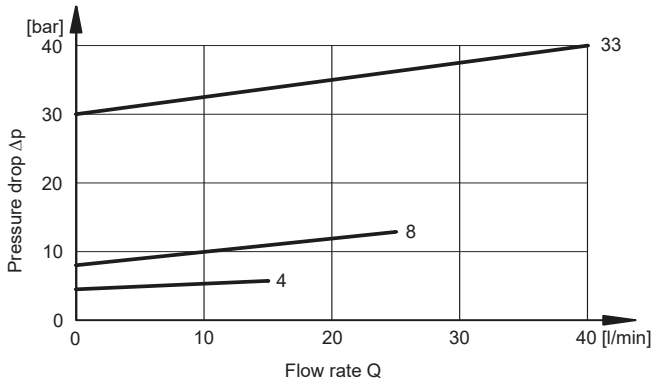


3-way pressure compensator

Volume flow pressure Q = f(p)

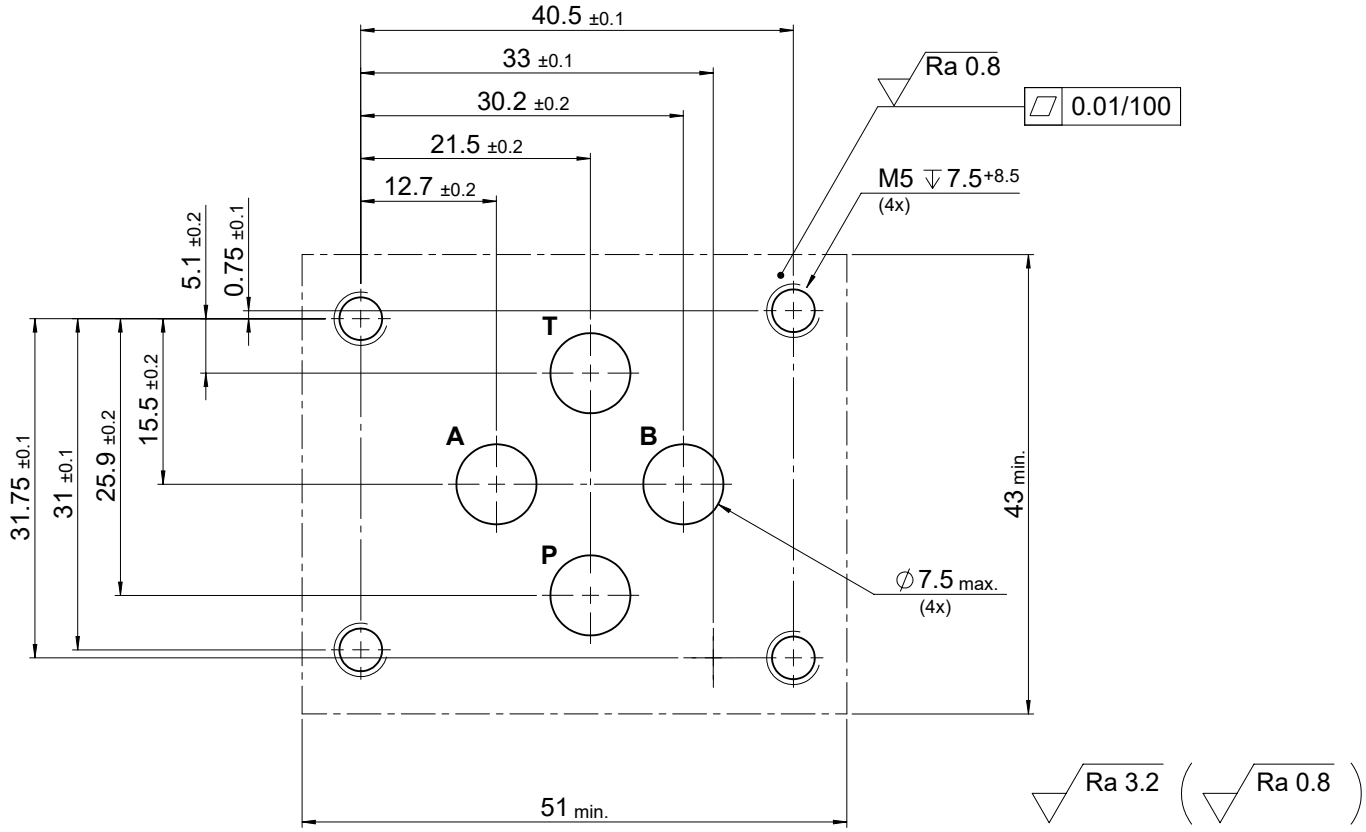


Pressure drop Δp = f(Q)

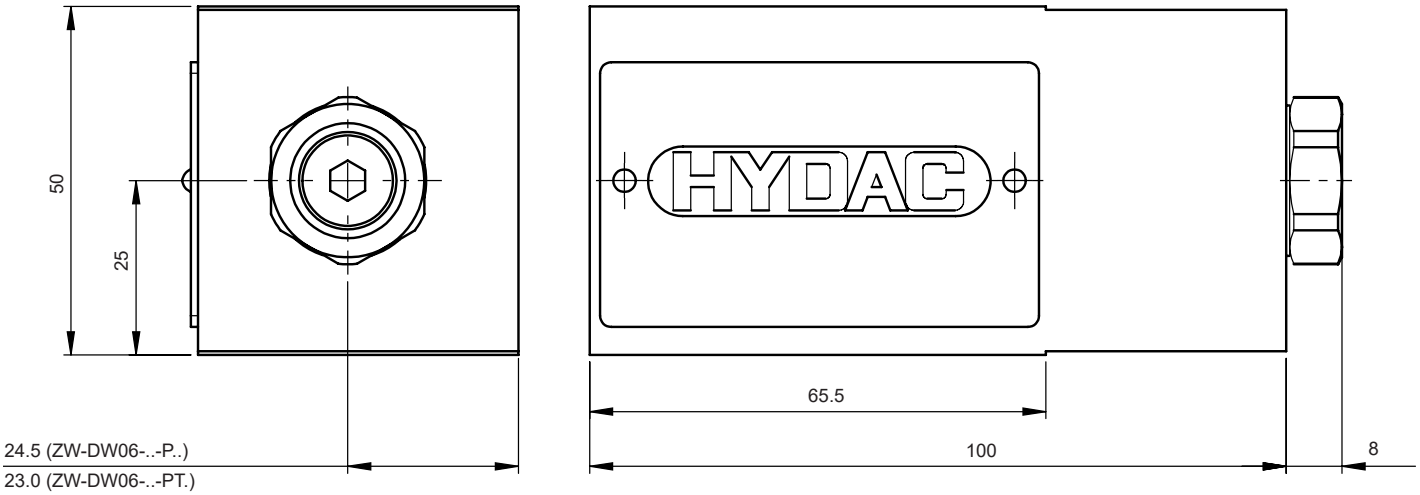


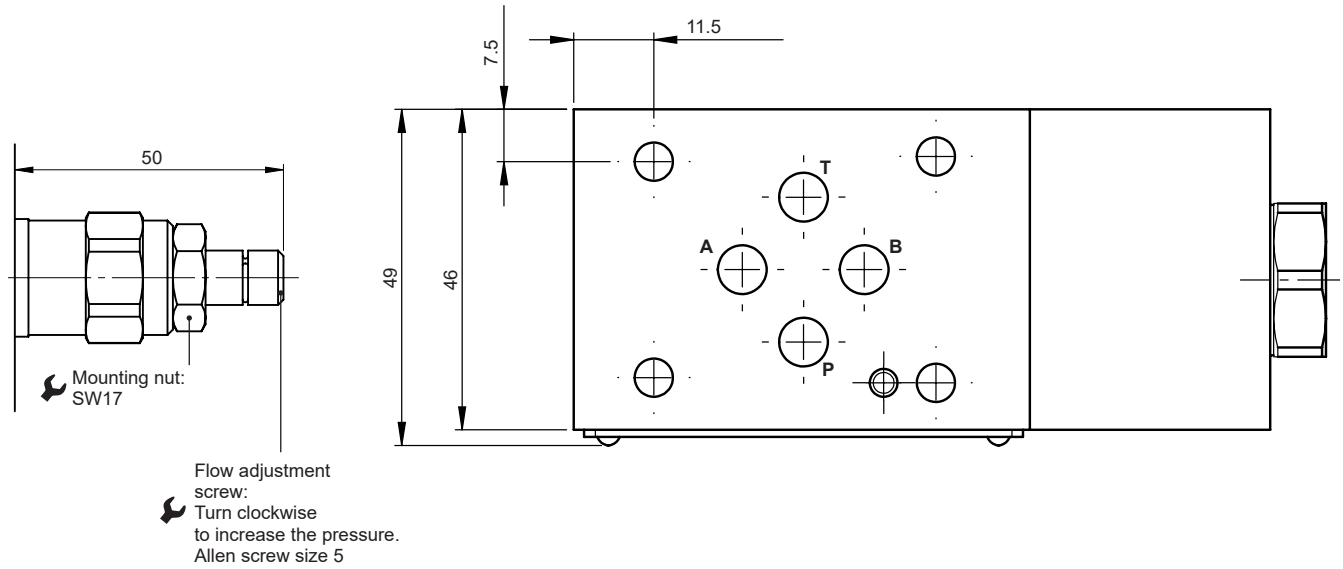
DIMENSIONS

Hole pattern to ISO 4401-03-02-0-05 (CETOP 4.2-4-03-350)



DIMENSIONS





ACCESSORIES

Spare parts, seal kits

Designation	Material	Code	Part no.
Seal kits (4-part set)	NBR	9.25 x 1.78 80 Sh	3492432
Seal kits (4-part set)	FKM	9.25 x 1.78 80 Sh	3120269

Throttle check valve in Sandwich plate design
ZW-SDR06

ADDITIONAL TECHNICAL DATA[1]

General specifications	
Weight	1.3 kg
Hydraulic specifications	
Flow rate	max. 75 l/min in free line max. 50 l/min in controlled line
Opening pressure check valve	Max. 0.5 bar

[1] See “Conditions and Instructions for Valves” in brochure 53.000.

MODEL CODE

ZW-SDR 06 01 AAB N

Description
Throttle check valve in sandwich plate design

Nominal size (NG)
6

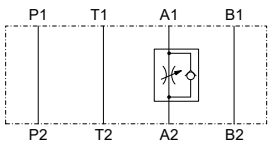
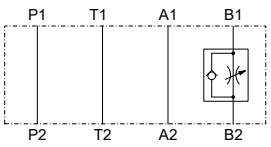
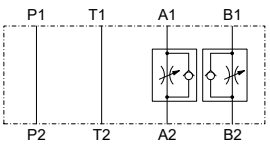
Series
01 = will be specified by the manufacturer

Spool symbol
AA = Outflow in port A
AB = Outflow in port B
AAB = Outflow in port A and B
ZAB = Inflow in port A and B

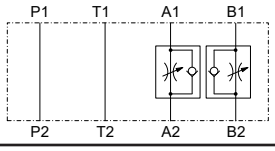
Sealing material
V = FKM (standard)
N = NBR

SYMBOL

Spool types / symbols

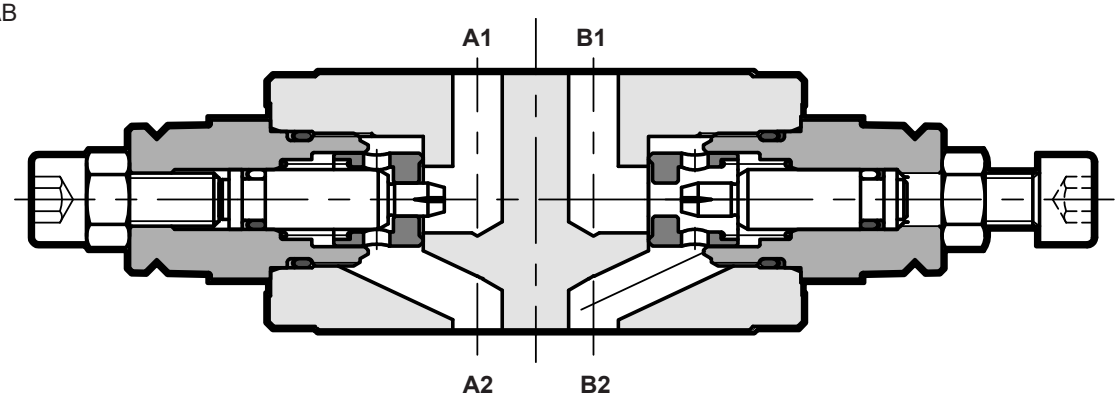
AA	AB	AAB
		

ZAB



SECTION VIEW

For example AAB



FUNCTION

The throttle check valve in sandwich plate design with nominal size 6 is used to control a volume flow in the flow direction. The flow passes freely through the valve in the opposite direction after the opening pressure has been exceeded. The valve opens here when the input pressure at the check valve is greater than the output pressure, including the compression spring force.

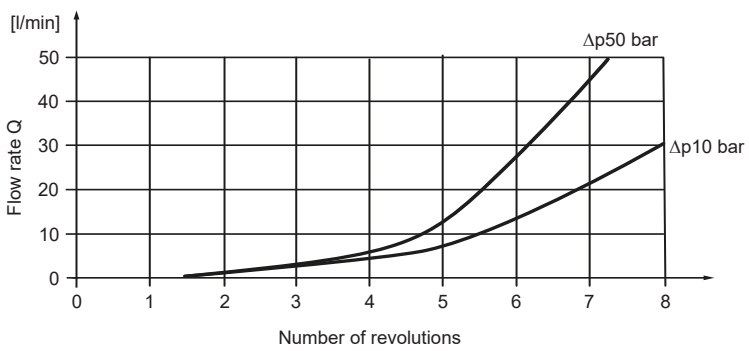
The degree of throttling of the volume flow takes place depending on the design in:

- Volume flow from consumer to mounting spool in line A → AA
- Volume flow from consumer to mounting spool in line B → AB
- Volume flow from consumer to mounting spool in line A and B → AAB
- Volume flow from mounting spool to consumer in line A and B → ZAB

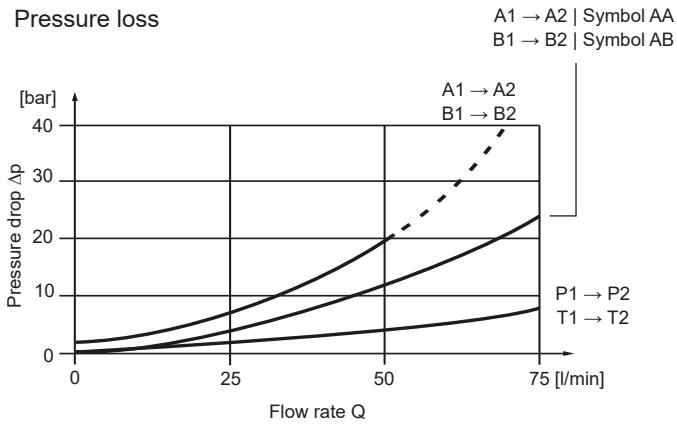
SAMPLE CHARACTERISTICS

Δp/Q characteristics measured at ν = 36 mm²/s, T_{oil} = 50 °C

Control

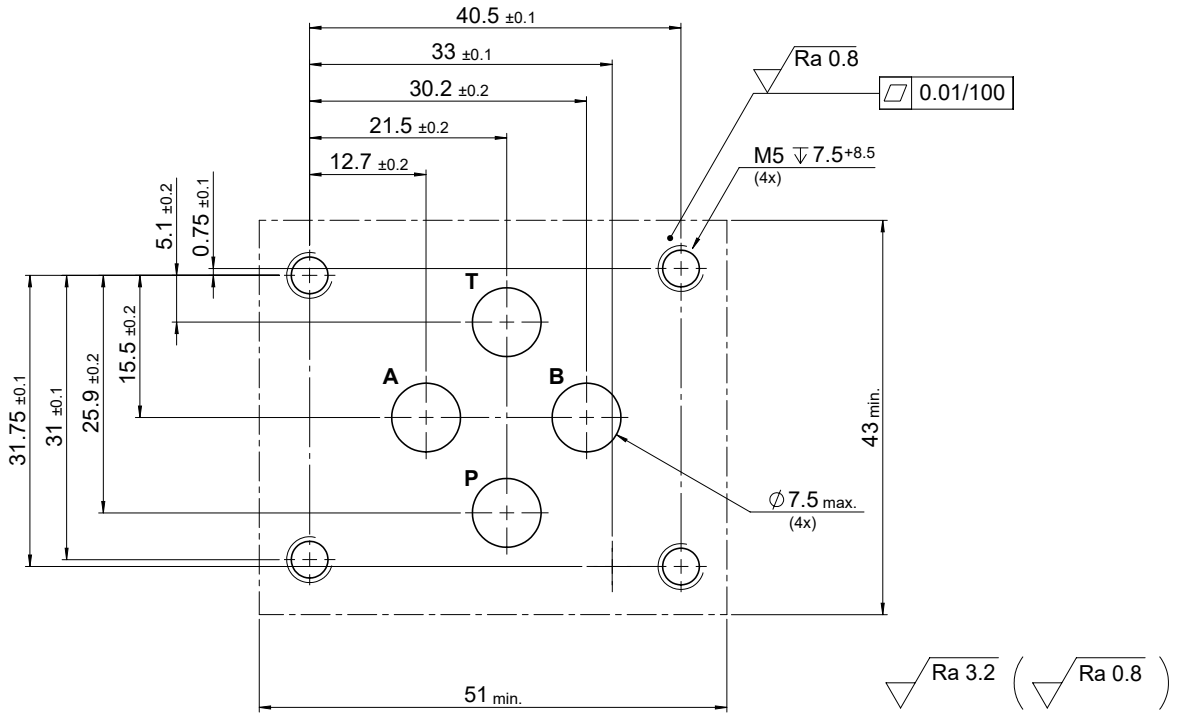


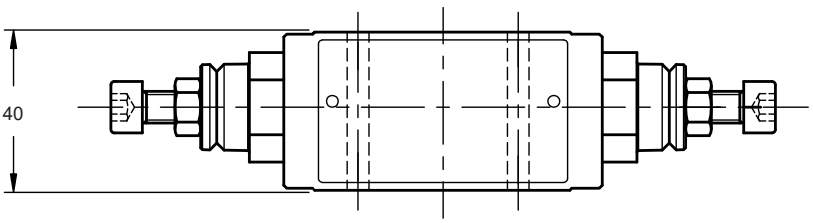
Pressure loss

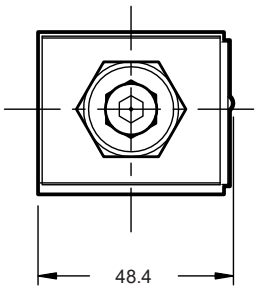


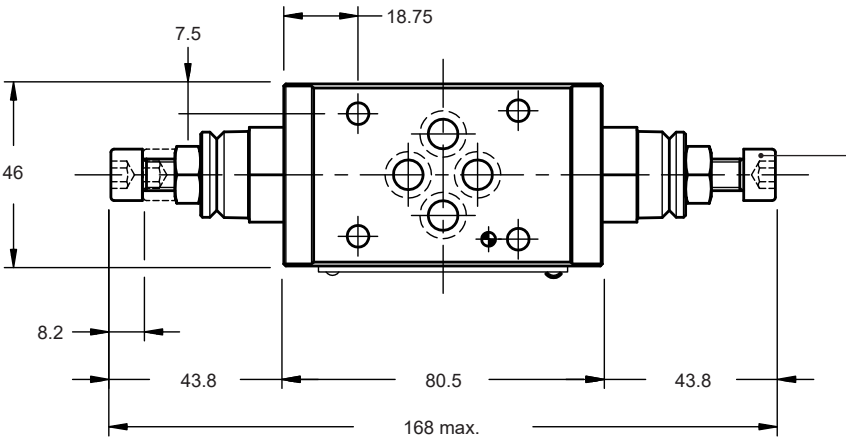
DIMENSIONS

Hole pattern to ISO 4401-03-02-0-05 (CETOP 4.2-4-03-350)









Grub screw with hex socket SW6
Turning clockwise reduces the volume flow.

ACCESSORIES

Spare parts, seal kits

Designation	Material	Code	Part no.
Seal kits (4-part set)	NBR	9.25 x 1.78 80 Sh	3492432
Seal kits (4-part set)	FKM	9.25 x 1.78 80 Sh	3120269

Flow control valve in Sandwich plate design
ZW-2SR06

ADDITIONAL TECHNICAL DATA[1]

General specifications	
Weight	3.0 kg 4.1 kg | only symbol AAB
Hydraulic specifications	
Operating pressure	250 bar
Flow rate	max. 65 l/min in free line (40 l/min free flow in opposite direction) max. 1, 4, 10, 16, 22, 30 l/min in controlled line
Opening pressure check valve	0.5 bar

[1] See “Conditions and Instructions for Valves” in brochure 53.000.

MODEL CODE

ZW-2SR 06 01 AA 01 N

Description
Flow control valve in sandwich plate design

Nominal size (NG)
6

Series
01 = will be specified by the manufacturer

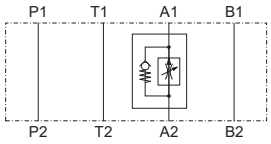
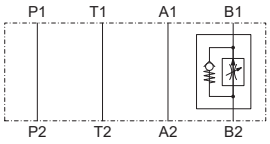
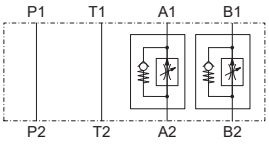
Spool symbol
AA = Outflow in port A
AB = Outflow in port B
AAB = Outflow in port A and B
P = Outflow in port P

Volume flow
01 = 1 l/min
04 = 4 l/min
10 = 10 l/min
16 = 16 l/min
22 = 22 l/min
30 = 30 l/min

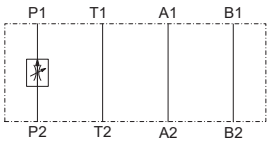
Sealing material
V = FKM (standard)
N = NBR

SYMBOL

Spool types / symbols

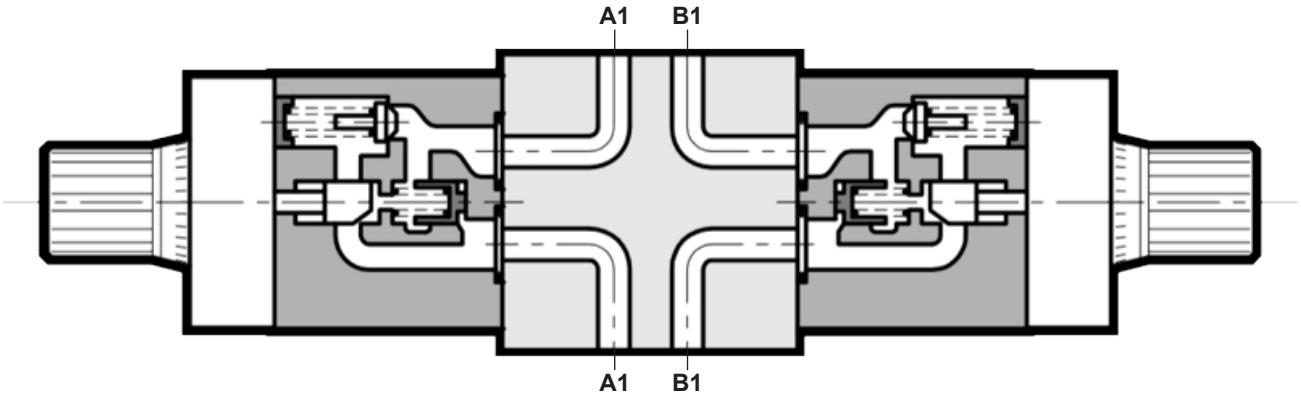
AA	AB	AAB
		

P



SECTION VIEW

For example AAB



FUNCTION

The flow control valve in sandwich plate design with nominal size 6 is used to control a volume flow in the flow direction. The volume flow is kept constant depending on the temperature and pressure drop at the consumer. The flow passes freely through the valve in the opposite direction after the opening pressure has been exceeded. The valve opens here when the input pressure at the check valve is greater than the output pressure, including the compression spring force. It is used to control the speed of an actuating drive, e.g. of a hydraulic cylinder.

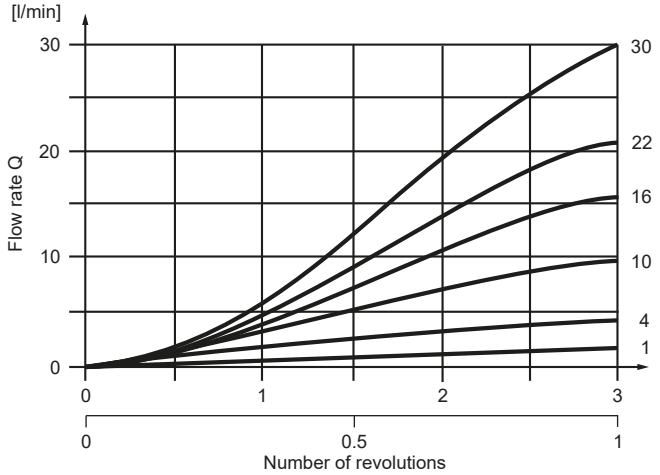
The control of the volume flow takes place depending on the design in:

- Volume flow from consumer to mounting spool in line A → AA
- Volume flow from consumer to mounting spool in line B → AB
- Volume flow from consumer to mounting spool in line A and B → AAB
- Volume flow from consumer to mounting spool in line P

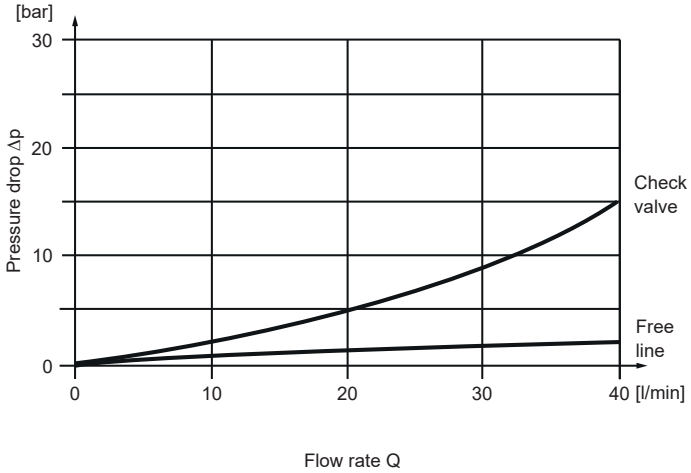
SAMPLE CHARACTERISTICS

Δp/Q characteristics measured at ν = 36 mm²/s, T_{Oil} = 50 °C

Control

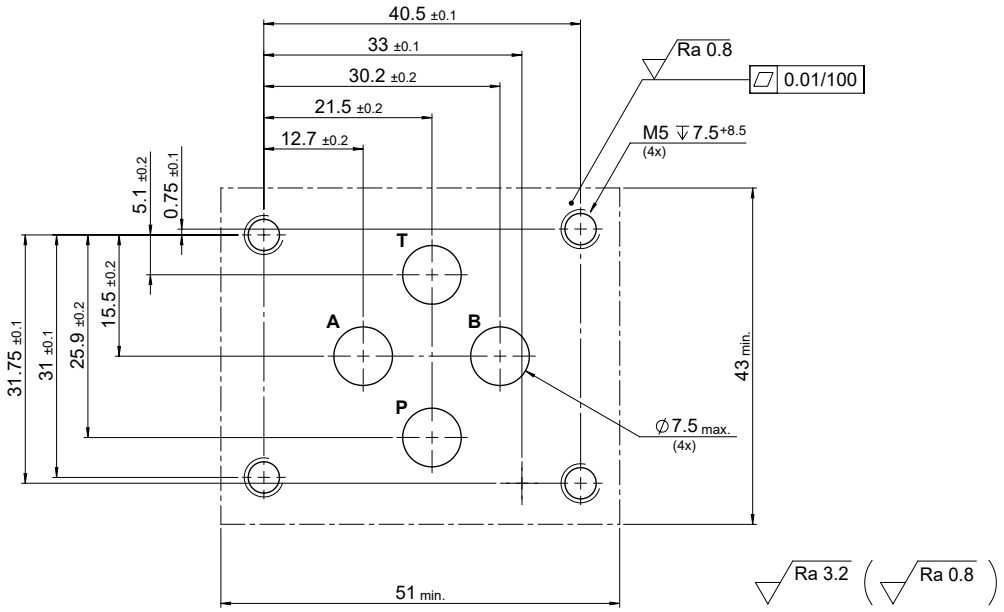


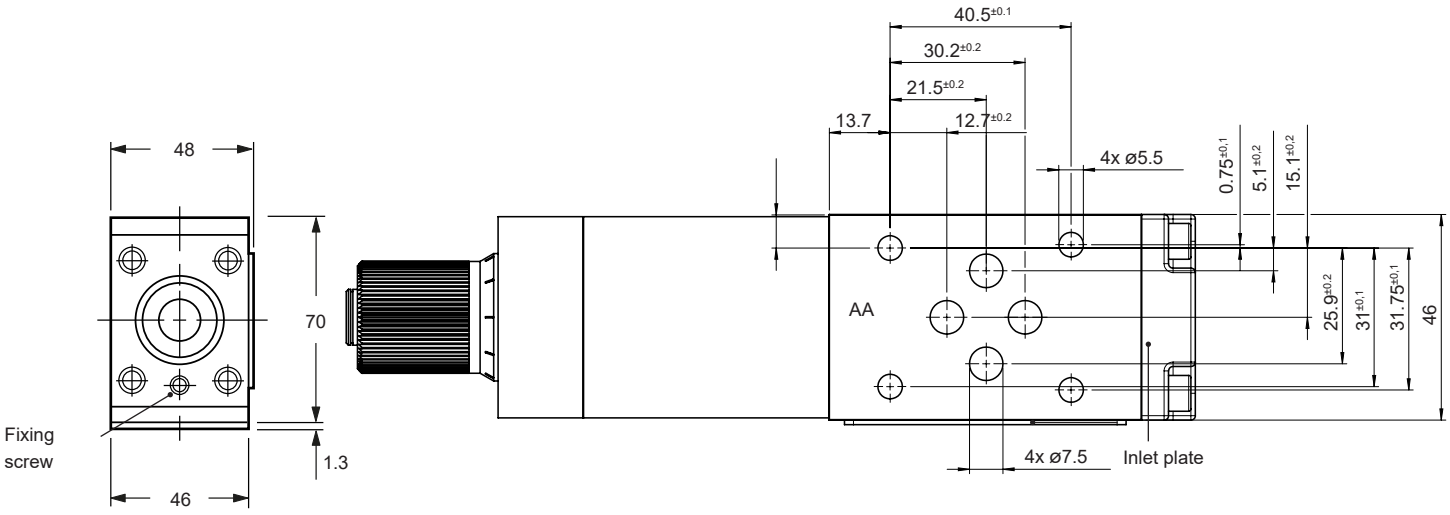
Pressure loss

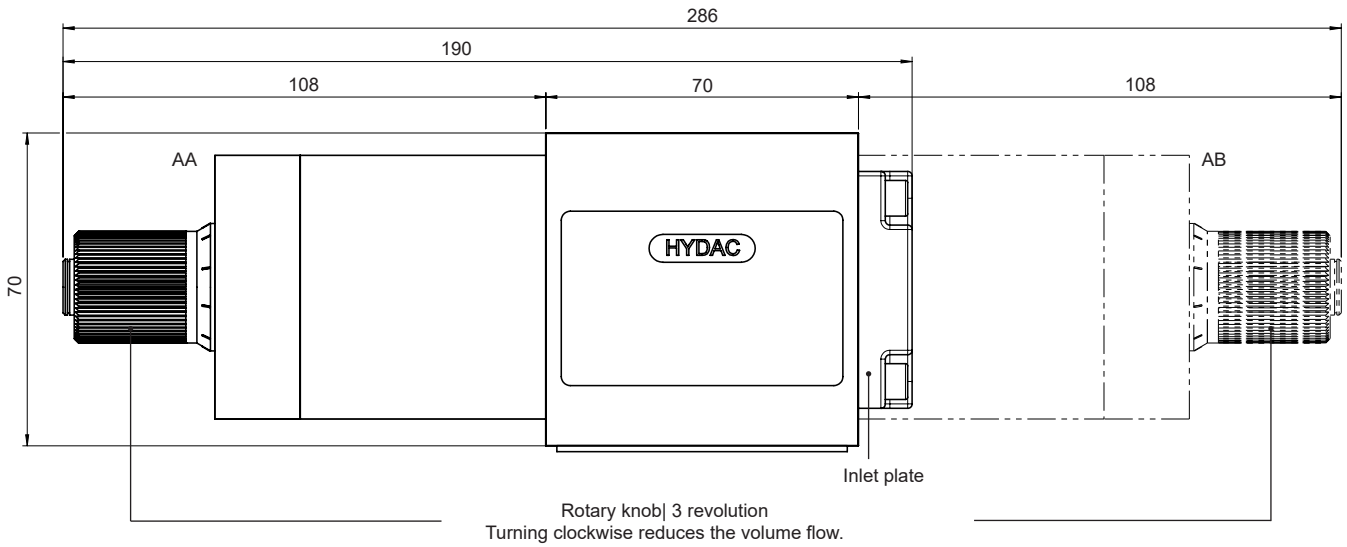


DIMENSIONS

Hole pattern to ISO 4401-03-02-0-05 (CETOP 4.2-4-03-350)







Rotary knob| 3 revolution
Turning clockwise reduces the volume flow.

ACCESSORIES

Spare parts, seal kits

Designation	Material	Code	Part no.
Seal kits (4-part set)	NBR	9.25 x 1.78 80 Sh	3492432
Seal kits (4-part set)	FKM	9.25 x 1.78 80 Sh	3120269

Unlockable check valve in sandwich plate design
ZW-RP06

ADDITIONAL TECHNICAL DATA[1]

General specifications	
Weight	1.3 kg
Hydraulic specifications	
Flow rate	max. 75 l/min in free line max. 50 l/min in controlled line
Opening pressure check valve	3 bar
Pilot ratio	3.4 : 1

[1] See “Conditions and Instructions for Valves” in brochure 53.000.

MODEL CODE

ZW-RP 06 01 AA N

Description
Check valve in sandwich plate design, hydraulic, unlockable

Nominal size (NG)
6

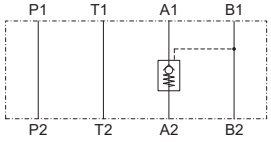
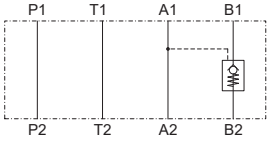
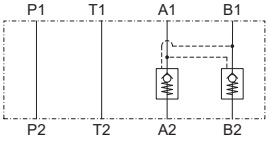
Series
01 = will be specified by the manufacturer

Spool symbol
AA = A2 → A1 blocked, unlock by B
AB = B2 → B1 blocked, unlock by A
AAB = A2 → A1 and B2 → B1 blocked, unlock by B1 bzw. A1

Sealing material
V = FKM (standard)
N = NBR

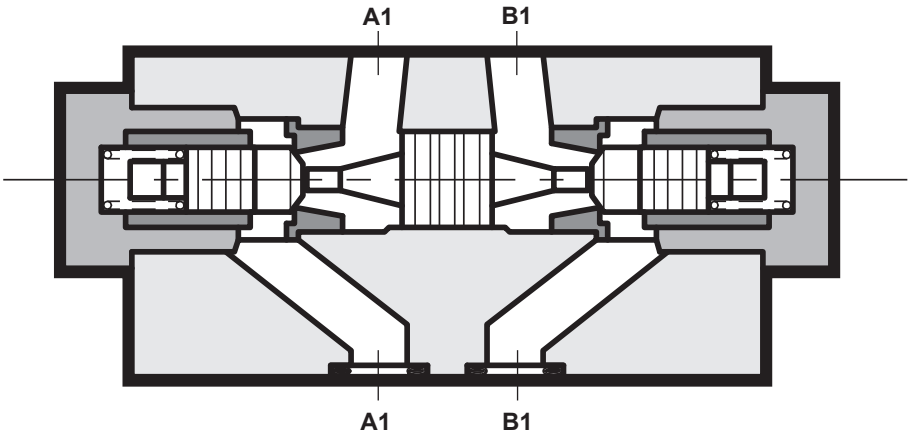
SYMBOL

Spool types / symbols

AA	AB	AAB
		

SECTION VIEW

For example AAB



FUNCTION

The unlockable check valve in sandwich plate design with nominal size 6 is a direct-acting, spring-loaded poppet valve. It releases a volume flow from the mounting spool to the consumer and locks the volume flow from the consumer to the mounting spool. To do so, the valve plug is pressed into the seat and blocks the flow. If a sufficiently high control pressure is built up in the respective control line, the valve unlocks and a volume flow passes from the consumer to the mounting spool. The required control pressure depends on the pressure difference between the ports to be unlocked.

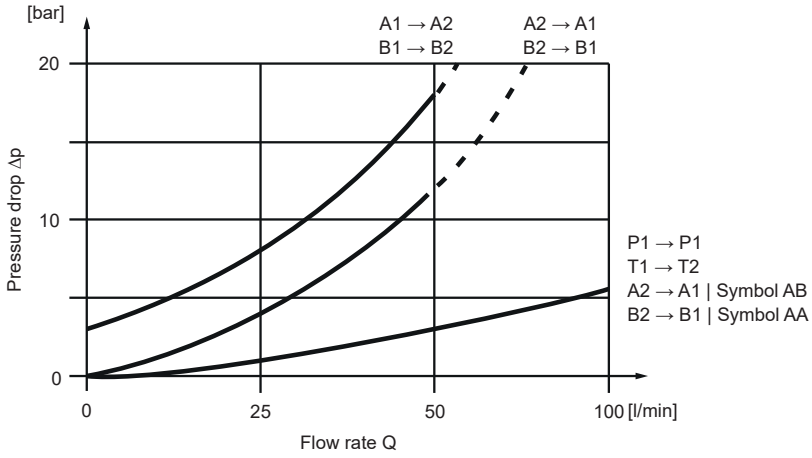
Notice:

A pressure in the port of the mounting spool influences the required control pressure.

SAMPLE CHARACTERISTICS

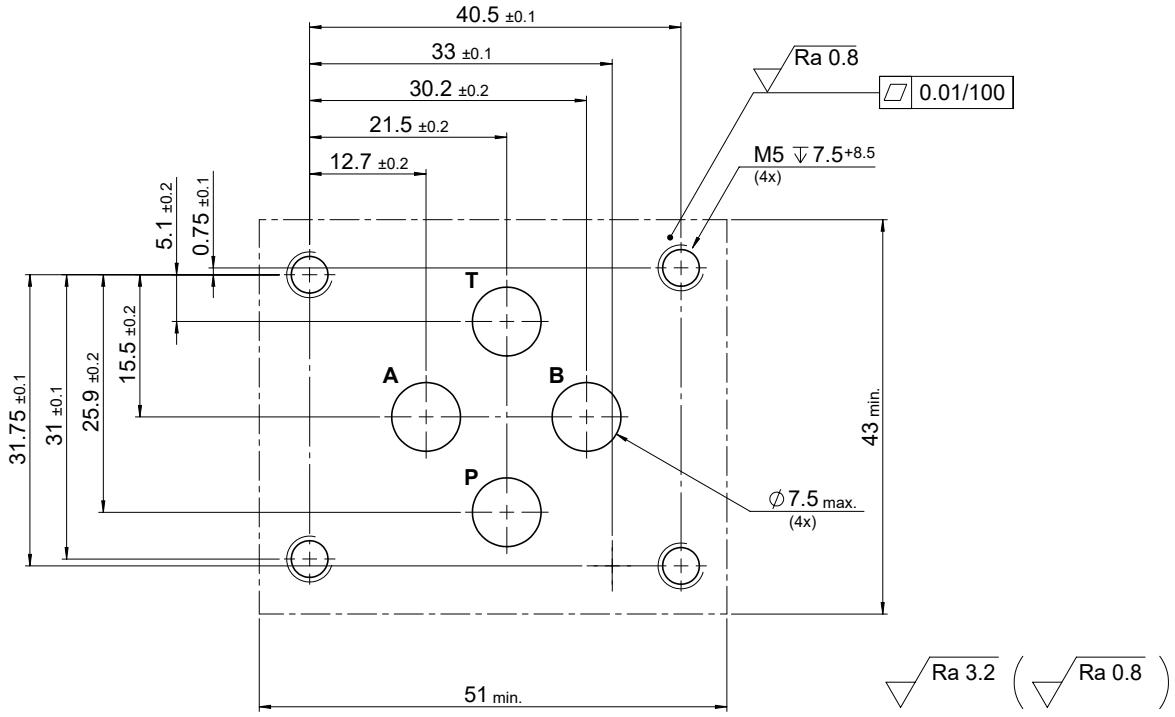
Δp/Q characteristics measured at ν = 36 mm²/s, T_{Oil} = 50 °C

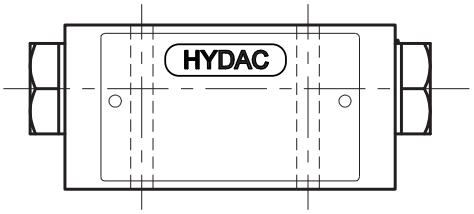
Pressure loss

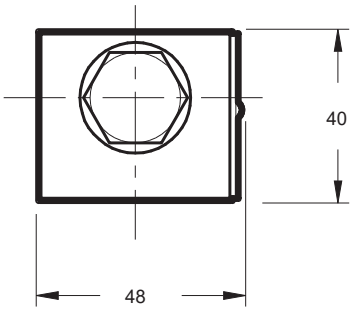


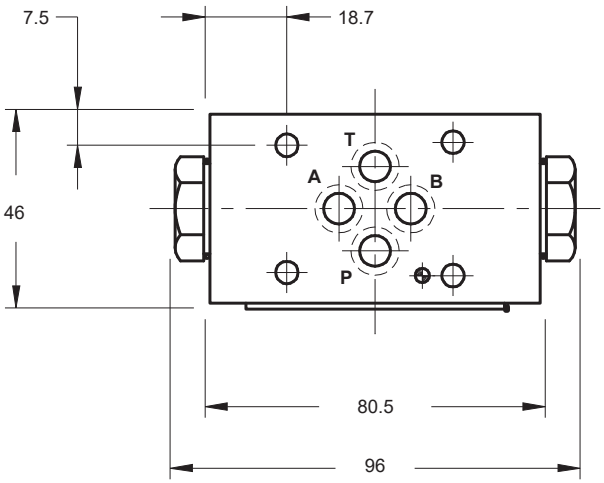
DIMENSIONS

Hole pattern to ISO 4401-03-02-0-05 (CETOP 4.2-4-03-350)









ACCESSORIES

Spare parts, seal kits

Designation	Material	Code	Part no.
Seal kits (4-part set)	NBR	9.25 x 1.78 80 Sh	3492432
Seal kits (4-part set)	FKM	9.25 x 1.78 80 Sh	3120269

Check valve
in sandwich plate design
ZW-RV06

ADDITIONAL TECHNICAL DATA[1]

General specifications	
Weight	1.0 kg
Hydraulic specifications	
Flow rate	max. 75 l/min in free line max. 50 l/min in controlled line
Opening pressure check valve	0.5 bar | 3 bar | 5 bar

[1] See “Conditions and Instructions for Valves” in brochure 53.000.

MODEL CODE

ZW-RV 06 01 A 0.5 N

Description
Check valve in sandwich plate design

Nominal size (NG)
6

Series
01 = will be specified by the manufacturer

Spool symbol
A = Stop valve in line
AB = Stop valve in line B
P = Stop valve in line P
T = Stop valve in line T
AB = Stop valve in line AB
PT = Stop valve in line PT

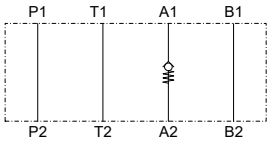
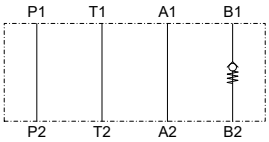
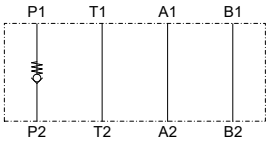
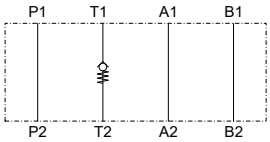
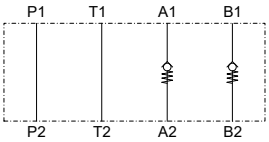
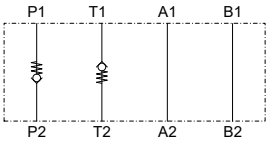
Opening pressure*
0.5 = 0.5 bar
3 = 3 bar
5 = 5 bar

Sealing material
V = FKM (standard)
N = NBR

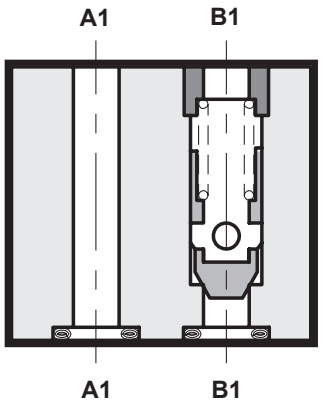
* Other versions on request.

SYMBOL

Spool types / symbols

A	B	P
		
T	**AB**	**PT**
		

SECTION VIEW



FUNCTION

The check valve in sandwich plate design with nominal size 6 is a direct-acting, spring-loaded poppet valve. After the spring pretensioning force has been overcome, it releases the volume flow in one direction and locks it in the opposite direction. To do so, the valve plug is pressed into the seat and blocks the flow.

- Flow in line A from consumer to mounting spool locked → A
- Flow in line B from consumer to mounting spool locked →B
- Locking return flow to pressure supply → P
- Pretensioning of the outflow to the tank → T
- Flow in line A and B from consumer to mounting spool locked →AB
- Locking return flow to pressure supply and pretensioning of the outflow to the tank → PT

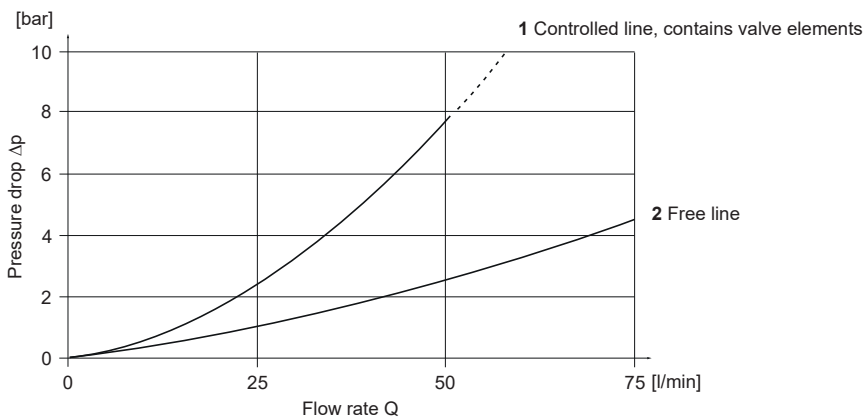
Notice

Spring-side pressures on the check element add to its opening pressure.

SAMPLE CHARACTERISTICS

Δp/Q characteristics measured at ν = 36 mm²/s, T_{Oil} = 50 °C

Pressure loss

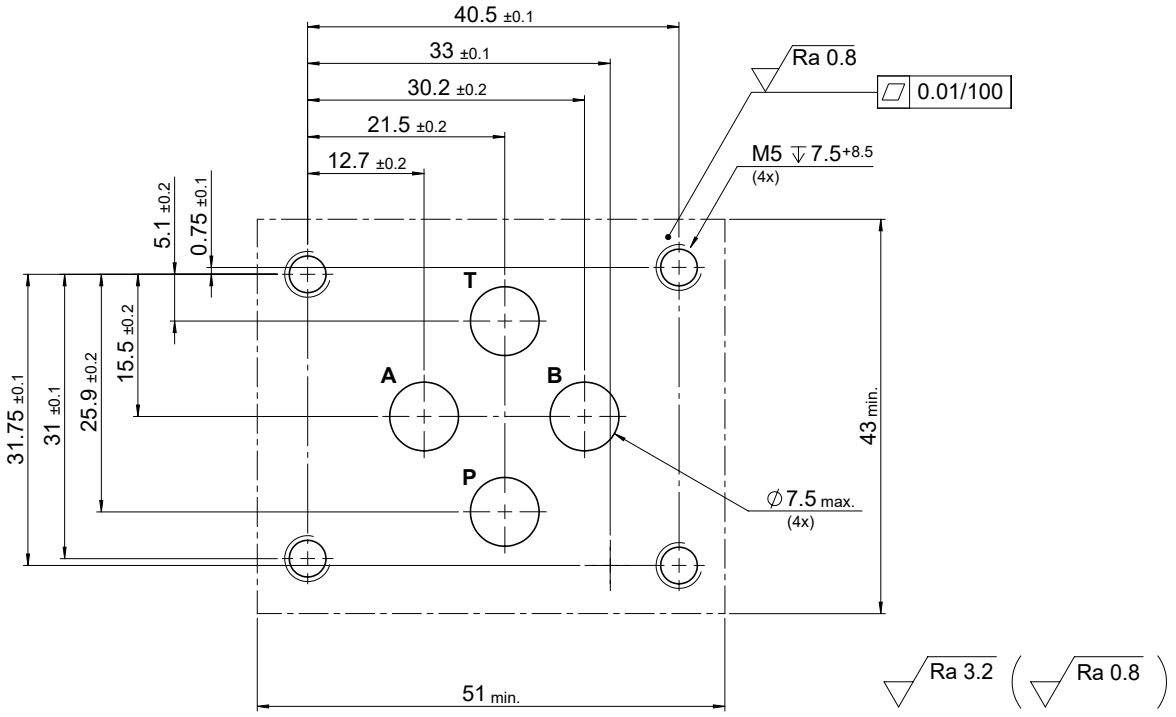


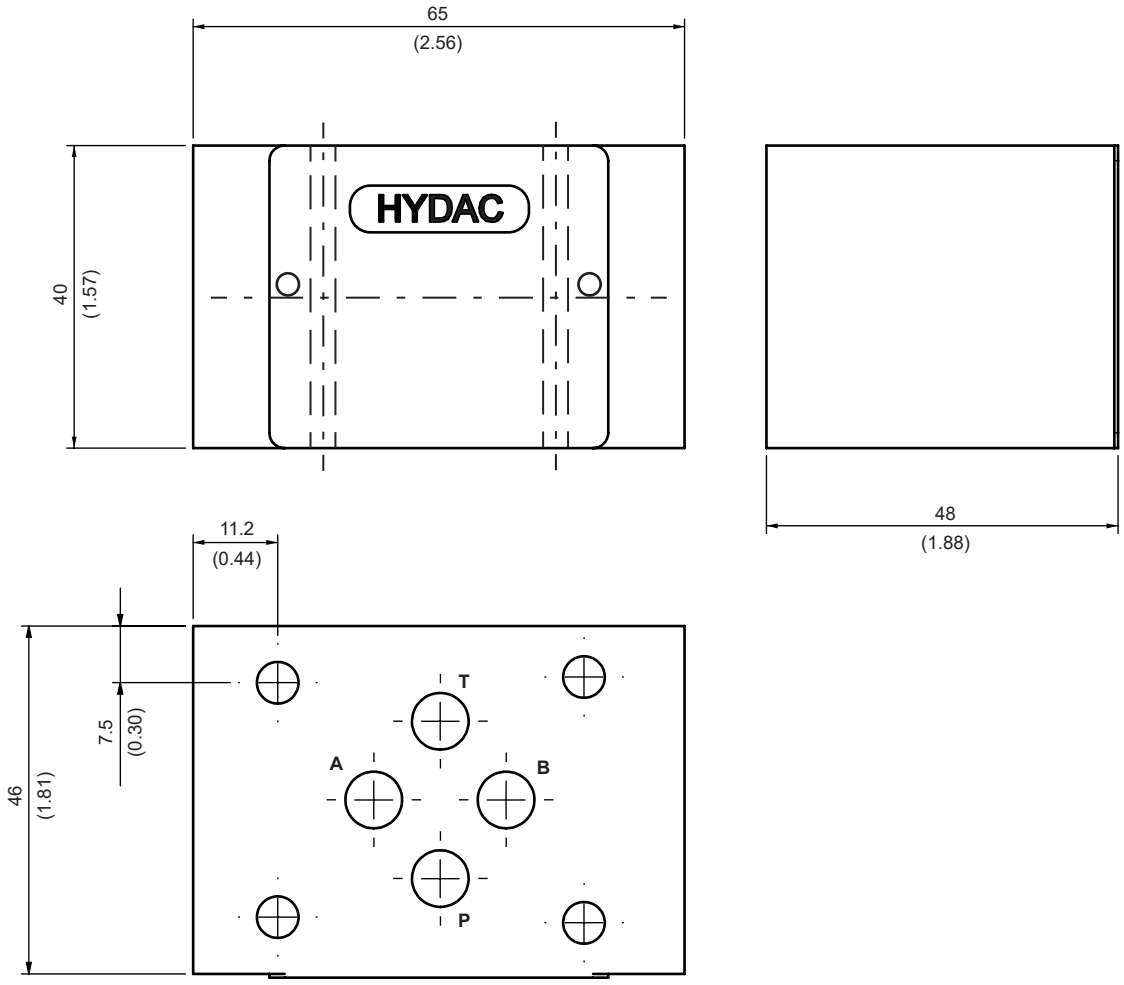
Note

The opening pressure of the valve is added to the values of the characteristic **1**.

DIMENSIONS

Hole pattern to ISO 4401-03-02-0-05 (CETOP 4.2-4-03-350)



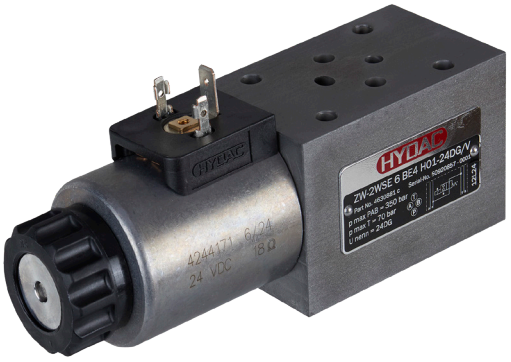


ACCESSORIES

Spare parts, seal kits

Designation	Material	Code	Part no.
Seal kits (4-part set)	NBR	9.25 x 1.78 80 Sh	3492432
Seal kits (4-part set)	FKM	9.25 x 1.78 80 Sh	3120269

Directional poppet valve in sandwich plate design
ZW-2WSE6



ADDITIONAL TECHNICAL DATA[1]

General specifications	
Weight	1.7 kg with one solenoid
Hydraulic specifications	
Flow rate	Max. 25 l/min

[1] See “Conditions and Instructions for Valves” in brochure 53.000.

MODEL CODE

ZW-2 WSE 6 E4 H01-24 DG /V

Description
Directional poppet valve in sandwich plate design

Ports
2

Valve type
Directional poppet valve

Nominal size
6

Spool symbol
E4 = closed when currentless
BE4 = open when currentless

Series
H01 = will be specified by the manufacturer

Nominal voltage of the solenoid*
0 = without
24 = 24 V DC

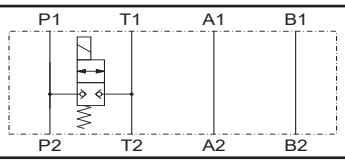
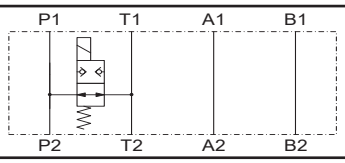
Connection type	Number of poles	Connection	Protection class	Suppressor diode
DG = Design A according to DIN EN 175301-803	3-pole	radial	IP65	no

Sealing material
V = FKM

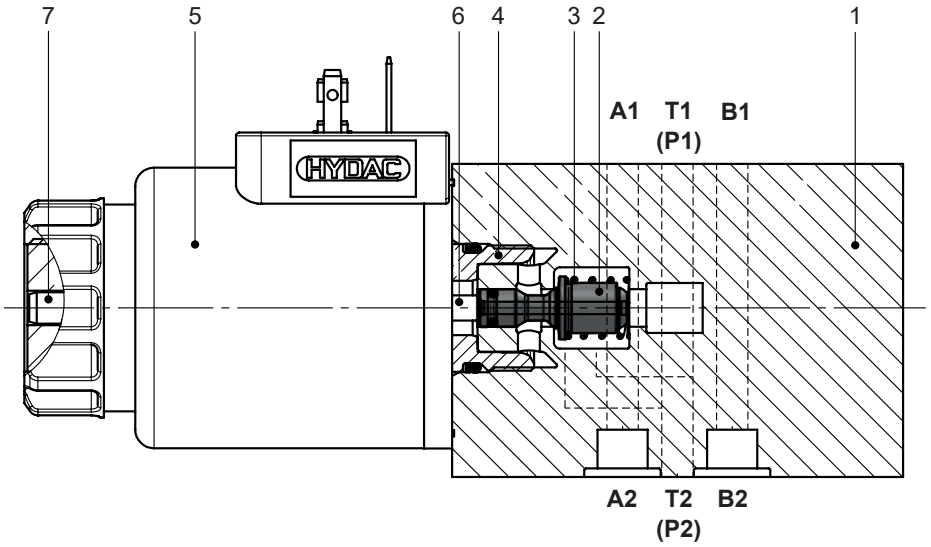
* Other versions on request.

SYMBOL

Spool types / symbols

E4	BE4
	

SECTION VIEW



FUNCTION

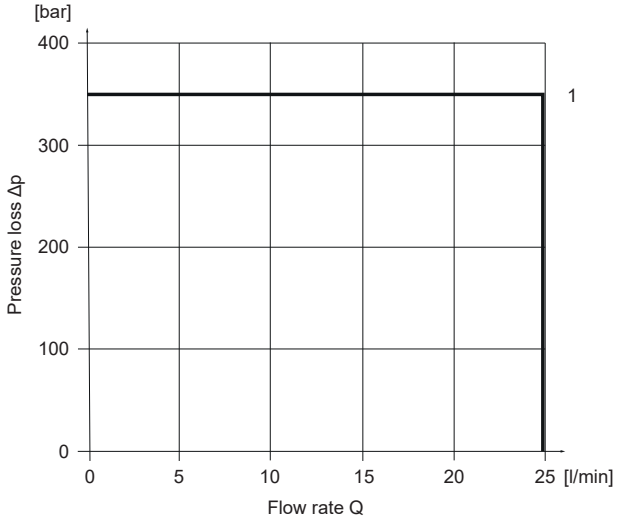
The solenoid-operated directional poppet sandwich plates of type ZW-2WSE 6 are used to control a volume flow. The valve design is patented and is made up of a valve casing (1) and a cone poppet element (2). The sandwich plate is equipped with a return spring (3) and a pole tube (4) and a solenoid (5). The hydraulic control of the valve is achieved by actuating the cone poppet element by means of a solenoid (5).

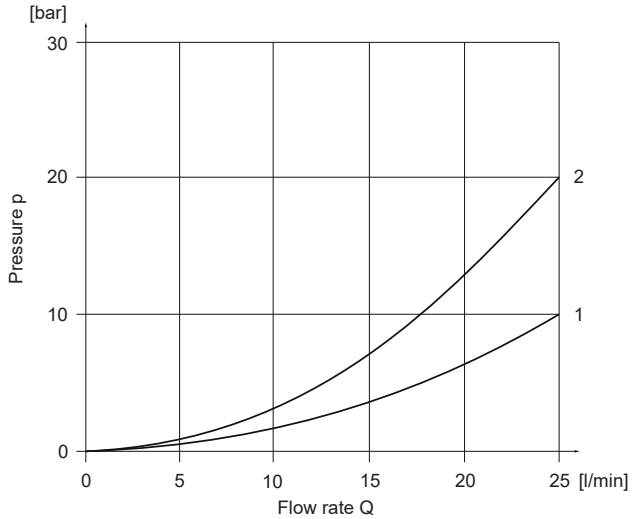
The solenoid is a transformer that converts electrical energy into mechanical energy. When the solenoid is activated, it generates a linear lifting movement of the magnetic spool that is immersed in oil. The spool moves the cone poppet element to the desired position by means of the guide rod (6). This releases a connection between the ports P and T or closes them so as to be leak-tight.
The modular principle of the key components allows both a currentless open and closed version to be implemented. The specially ground cone poppet elements are pressure-compensated and therefore double leak-tight, i.e. pressure reversals, within the permitted port pressures, do not cause them to open accidentally. To achieve optimal switching capacity of the valves, the pressure-tight space of the pole tube should always be filled with oil. Thanks to the corresponding return spring, the cone poppet element is pushed back into its initial position when the solenoid is no longer energised. The manual override (7) enables valve operation without energising the solenoid.

TYPICAL PERFORMANCE

Pressure loss measured at ν = 30 mm²/s, T_{Oil} = 45 °C

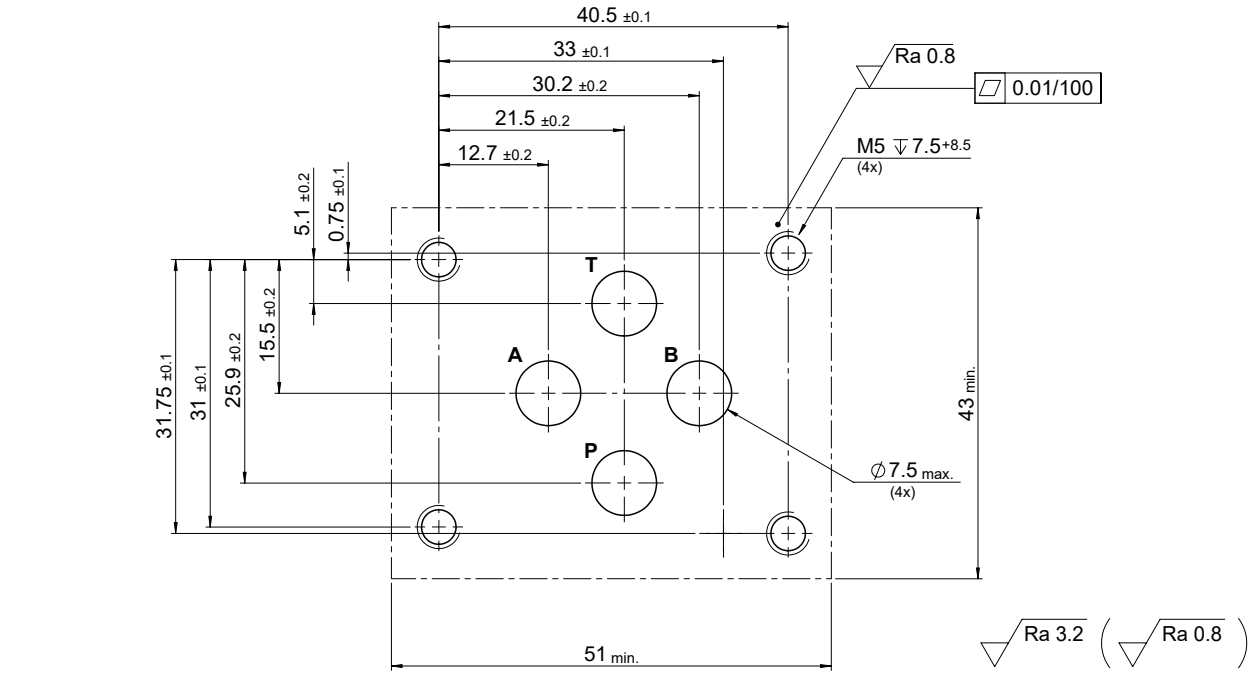
Power limit: Switch-on power I_{ON} ≥0.7 x I_N | Switch-off power I_{OFF} ≤0.07 x I_N

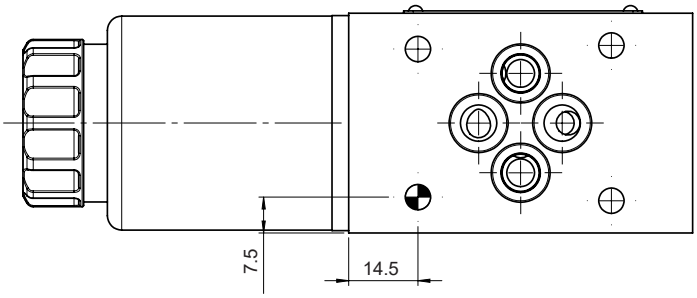


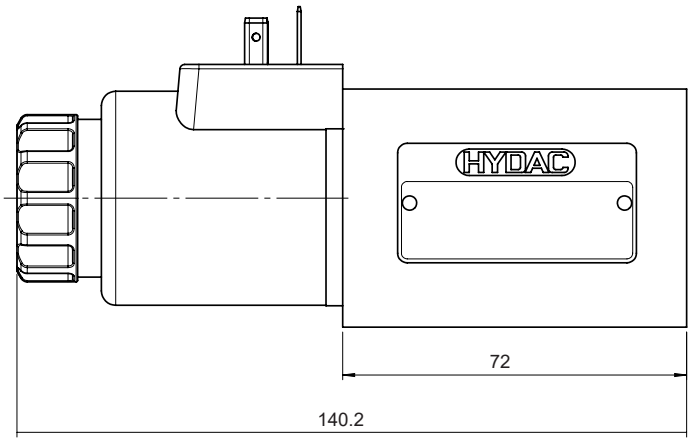


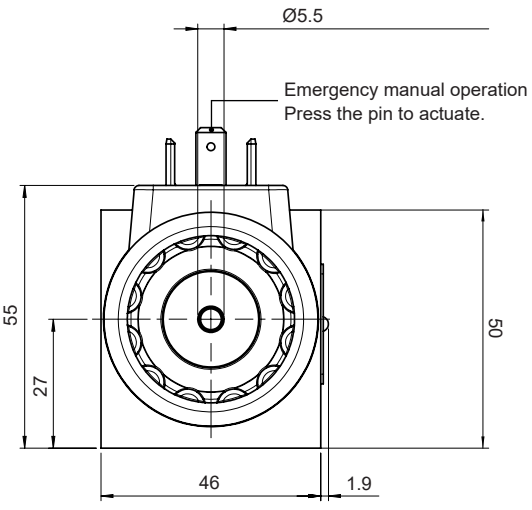
DIMENSIONS

Hole pattern to ISO 4401-03-02-0-05 (CETOP 4.2-4-03-350)









ACCESSORIES

Spare parts, seal kits

Designation	Material	Code	Part no.
Seal kits (4-part set)	NBR	9.25 x 1.78 80 Sh	3492432
Seal kits (4-part set)	FKM	9.25 x 1.78 80 Sh	3120269

NOTE

The information in this brochure relates to the operating conditions and fields of application described. For applications and operating conditions not described, please contact the relevant technical departments.

Subject to technical modifications.

Documents are only valid if they have been obtained via the website and are up-to-date.

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