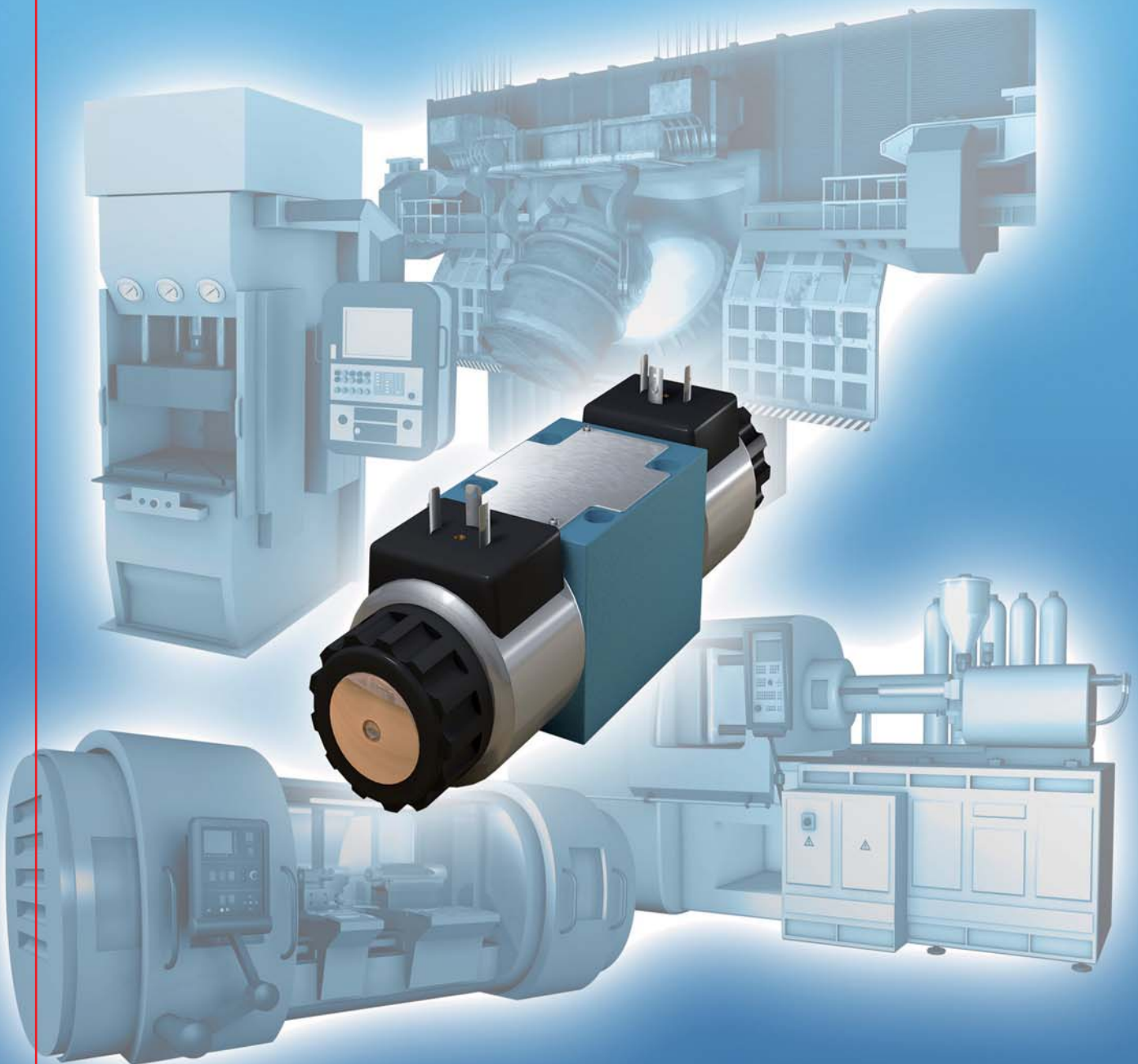


HYDAC Fluidtechnik: Industrial Valves

Pressure Relief Valve ZW DB - Modular



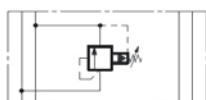


Pmax = 350 bar
Qmax = 75 l/min

Symbols

ZW-DB06 PT

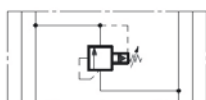
P1 T1 A1 B1



P2 T2 A2 B2

ZW-DB06 AT

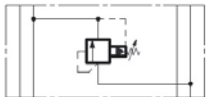
P1 T1 A1 B1



P2 T2 A2 B2

ZW-DB06 BT

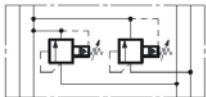
P1 T1 A1 B1



P2 T2 A2 B2

ZW-DB06 ABT

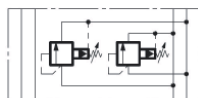
P1 T1 A1 B1



P2 T2 A2 B2

ZW-DB06 AB

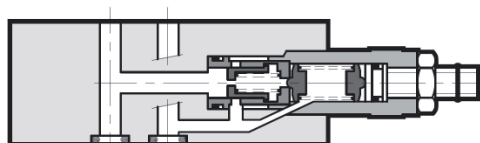
P1 T1 A1 B1



P2 T2 A2 B2

Function

P1 T1



P2 T2

Pilot operated pressure relief valve as sandwich plate housing ZW-DB06

Features

- Hole pattern according to DIN 24340 Form A6, ISO 4401-03, nominal size 06
- Pressure relief valve as sandwich plate housing with single side relief function and drain to tank
- easy to assemble under body mounted spool valves according to DIN 24340 Form A6, ISO 4401 (use longer screws)
- type according to ISO 7790
- adjustable by tool

Types

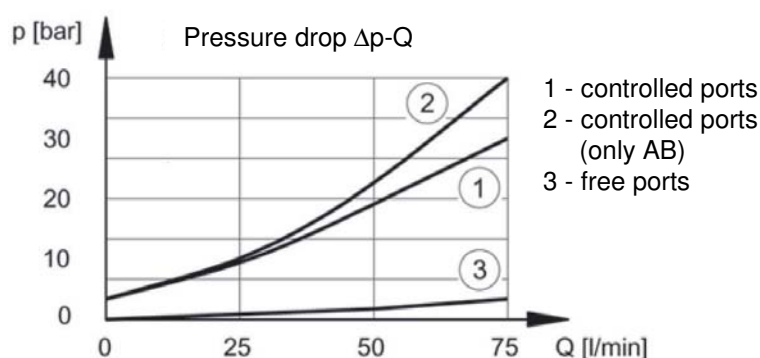
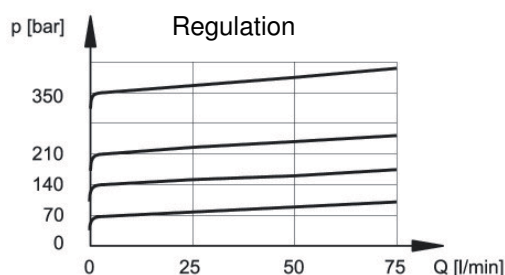
- type PT: Pressure relief in P, Drain T
- type AT: Pressure relief in A, Drain T
- type BT: Pressure relief in B, Drain T
- type ABT: Pressure relief in A-B (double), Drain T
- type AB: Pressure relief in B, Drain and relief in A, Drain in B

Specifications

Operating pressure:	max. 350 bar
Adjusting pressure ranges:	up to 70, 140, 210, 350 bar
Nominal flow:	max. 75 l/min
Fluids:	hydraulic oil according to DIN 51524 Part 1 and 2
Media operating temp. range:	-20 °C up to max. +80 °C
Ambient temperature range:	-20 °C up to max. +50 °C
Viscosity range:	10 – 400 mm ² /s is recommended
Filtration:	Class 20/18/15 to ISO 4406 or cleaner
Weight:	1,4 kg incl. valve (AB, ABT = 2,1 kg)

Curves

measured at t = 50 °C, ν = 32 mm²/s



Standard models

ZW-DB06-01-PT 350V-V	6074657
ZW-DB06-01-AT 350V-V	6074661
ZW-DB06-01-BT 350V-V	6074664
ZW-DB06-01-AB 350V-V	6074667
ZW-DB06-01-ABT 350V-V	6074670
Other types on request	

Part No.

Model code

Sandwich plate type

Name and nominal size

Pilot operated pressure relief valve

Series

01 = Standard

Types

- type PT: Pressure relief in P, Drain T
- type AT: Pressure relief in A, Drain T
- type BT: Pressure relief in B, Drain T
- type ABT: Pressure relief in A-B (double), Drain T
- type AB: Pressure relief in A-B (double), Drain B/A

Pressure ranges

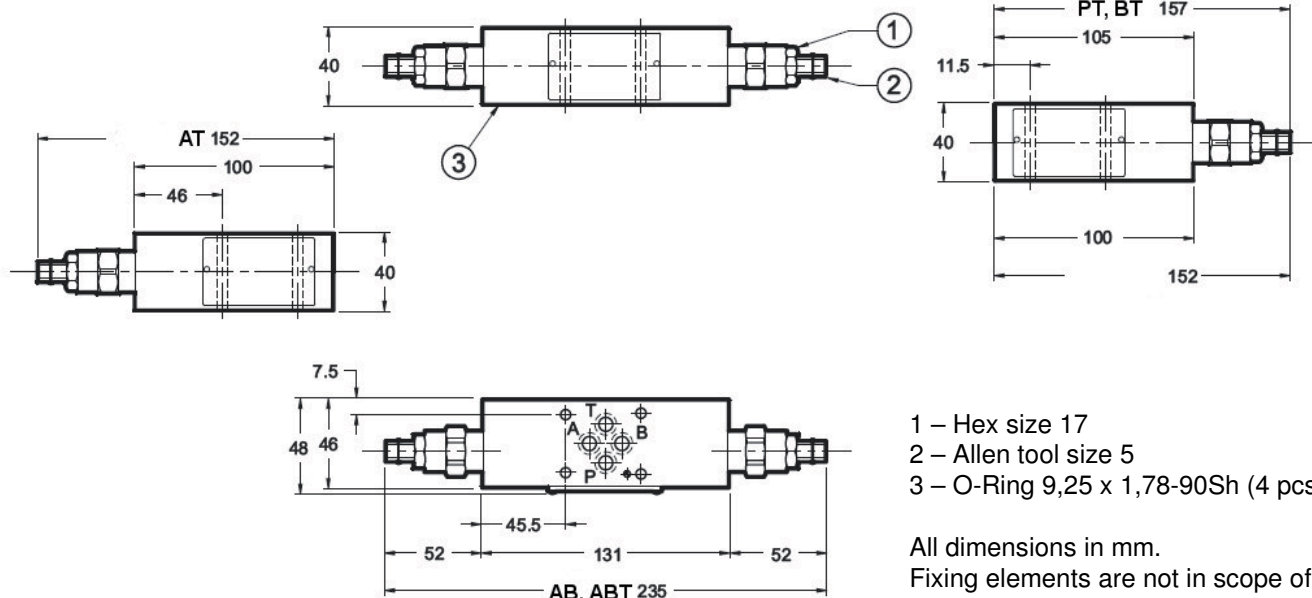
70 = 70 bar
140 = 140 bar
210 = 210 bar
350 = 350 bar

Seals

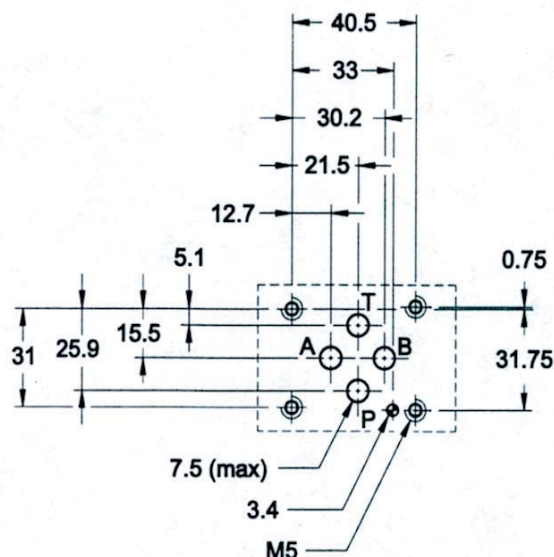
V = Viton (Standard)
N = NBR

ZW - DB06 - 01 - PT - 140V - V

Dimensions



Mounting plate according to ISO 4401-03



Annotation

The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department. Subject to technical modifications.

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Fax 06897 / 509 -598
Email flutec@hydac.com

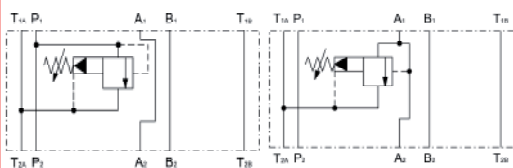


up to 350 bar
up to 100 l/min

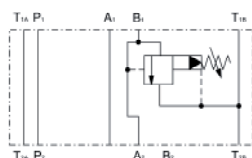
Symbols

ZW-DB10P PT

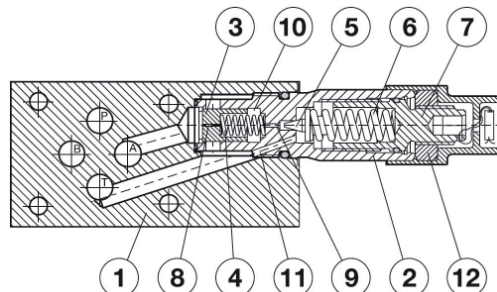
ZW-DB10P AT



ZW-DB10P BT



Function



- 1 - Housing
- 2 - Cartridge valve
- 3 - Main valve
- 4 - Spring for main piston
- 5 - Pilot
- 6 - Spring for pilot
- 7 - Adjust spindle
- 8 - Bore hole
- 9 - Seat pilot
- 10 - Main piston
- 11 - Spring detention
- 12 - Counter nut

Pilot operated pressure relief valve as sandwich plate housing ZW-DB10

Features

- Hole pattern to DIN 24340, ISO 4401-05, nominal size 10
- Pressure relief valve as sandwich plate housing with single sided relief function and output to the tank
- easy to assemble under body mounted spool valves to DIN 24340, ISO 4401 (use longer screws)
- adjustable by tool

types

- type PT: Pressure relief in P, Drain T
- type AT: Pressure relief in A, Drain T
- type BT: Pressure relief in B, Drain T

Specifications

Nominal pressure:

max. 350 bar

Pressure ranges:

up to 315 bar

Nominal flow:

max. 100 l/min

Fluids:

Hydraulic fluid to DIN 51524 part 1 and 2

Media operating temp. range:

-20°C up to max. +70°C

Ambient temperature range:

-20°C up to max. +50°C

Viscosity range:

15 – 380 mm²/s is recommended

Filtration:

Class 20/18/15 to ISO 4406

or cleaner

ISO 4410 Class 20/18/15 to ISO 4406

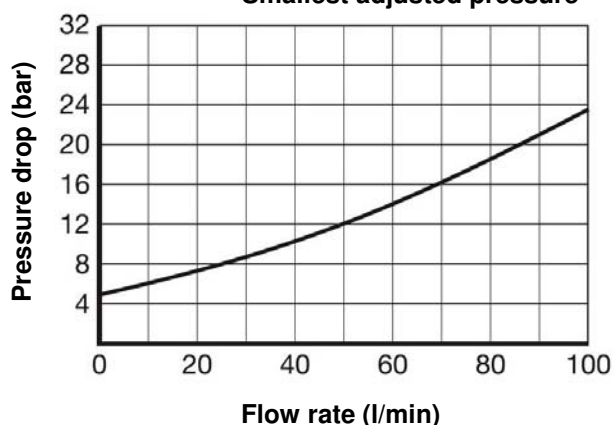
2,6 kg incl. valve

Weight:

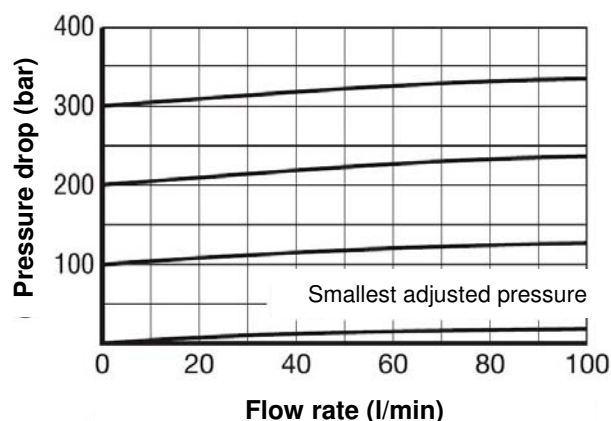
Diagrams

measured at $t = 50^\circ\text{C}$, $v = 32\text{mm}^2/\text{s}$

Smallest adjusted pressure



Pressure drop $\Delta p-Q$



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