

# AH-DZ6DP...type Direct Operated Sequence Valve

## AH-DZ6DP...50S...type

Size 6

Max. Working Pressure: 315 bar

Max. Flow: 60 L/min



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### Features

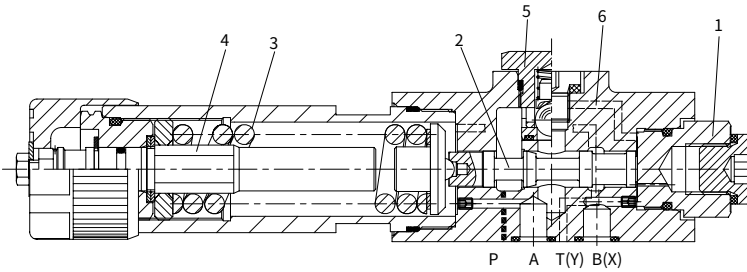
- Direct operated
- Porting pattern to DIN 24 340, form A and ISO 4401
- 5 pressure ratings
- 2 adjustment elements:
  - Rotary knob
  - Adjustable bolt with protective cap
- Pressure gauge connection
- Check valve, optional

## Function and configuration

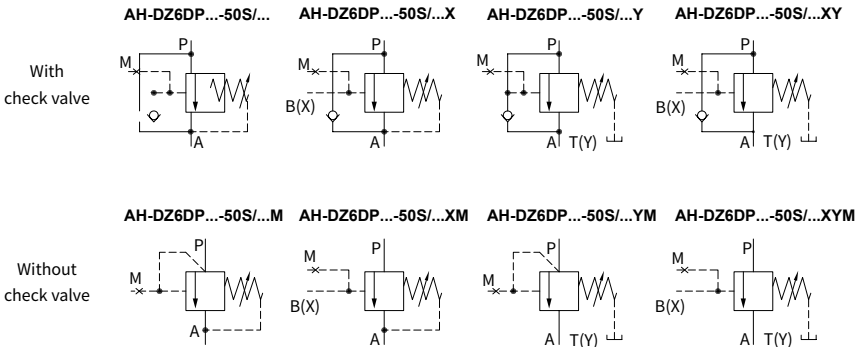
AH-DZ6DP type valve is a direct operated pressure sequence valve. It is used for the pressure dependent connection of a secondary system. The sequence pressure is setting via the adjusting element(4). The spring (3) holds the control spool (2) in the neutral position, the valve is blocked. The pressure in channel P is acting at the end surface of the control spool (2) opposite the spring (3) via the control line (6). If the pressure in channel P reaches the setting value of the spring(3), the control spool (2) is moved to the left and the connection P to A is opened. In this case, fluid flows from channel P to A without pressure drop in channel P.

The control signal is adopted internally by the control line (6) from channel P or externally via port B (X). Depending on the use of the valve the leakage oil drain is externally via port T (Y) or internally via A.

### Type AH-DZ6DP1-50S/...



## Symbols



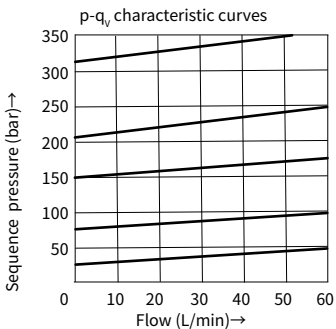
# Specification

AH-DZ6DP		- 50S								★	
Direct operated pressure sequence valve nominal size 6										Further details in clear text	
Rotary knob =1										No code = NBR seals	
Adjustable bolt with protective cap =2										V = FKM seals	
Lockable rotary knob with scale =3										Pressure tapping thread	
Rotary knob with scale =7										No code = Incha thread	
										2 = Metric thread	
Series 50S to 59S = 50S										No code = With check valve	
(50S to 59S series: unchanged installation and connection dimensions)										M = Without check valve	
Max. secondary pressure 25 bar =25										No code = Pilot oil supply internal, oil drain internal	
Max. secondary pressure 75 bar =75										X = Pilot oil supply external, oil drain internal	
Max. secondary pressure 150 bar =150										Y = Pilot oil supply internal, oil drain external	
Max. secondary pressure 210 bar =210										XY = Pilot oil supply external, oil drain external	
Max. secondary pressure 315 bar =315											

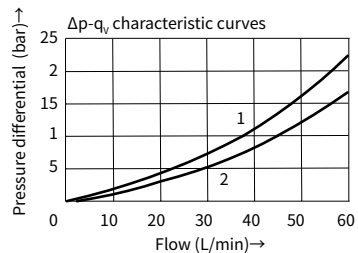
# Technical data

Fluid		Mineral oil suitable for NBR and FKM seal	
		Phosphate ester for FKM seal	
Fluid temperature range		°C	
		-30 to +80 (NBR seal)	
		-20 to +80 (FKM seal)	
Viscosity range		mm <sup>2</sup> /s	
		10 to 800	
Degree of contamination		Maximum permissible degree of fluid contamination: Class 9. NAS 1638 or 20/18/15, ISO4406	
Max. operating pressure	Port P,A,B(X)	bar	315
	Port T(Y)	bar	160
Max. adjustable sequence pressure	bar	25; 75; 150; 210; 315	
Max. flow-rate	L/min	60	
Weight	kg	Approx. 1.6	

# Characteristic curves ( Measured at t=40°C ±5°C , using HLP46)



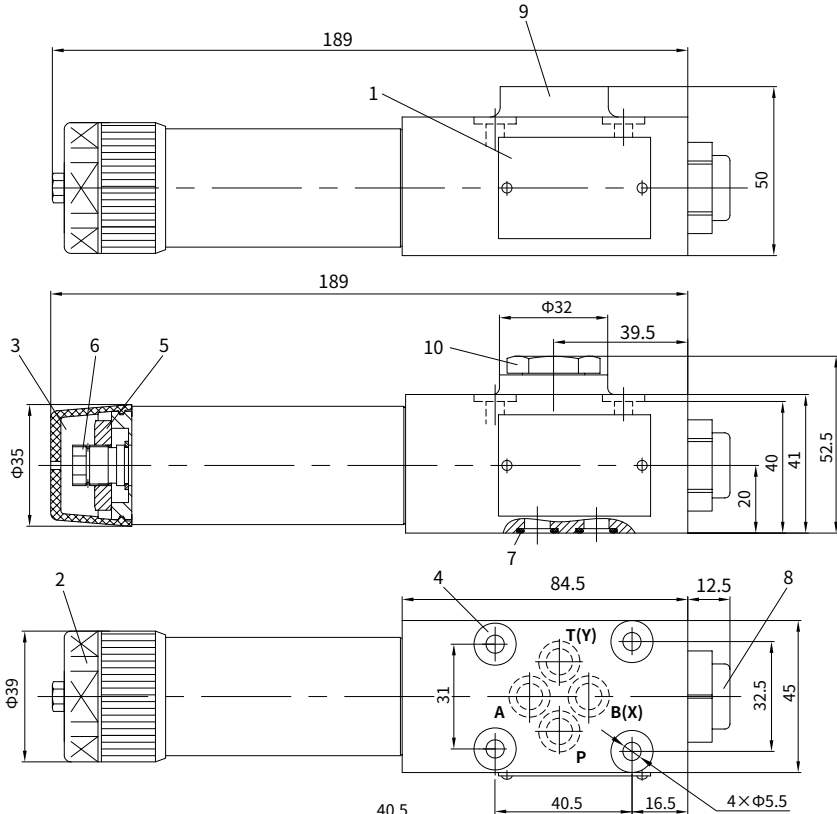
1. Δp-q<sub>v</sub> characteristic curves A to P via check valve
2. Δp-q<sub>v</sub> characteristic curves P to A



The characteristic curves are valid for output pressure = zero in the complete flow range.

# Unit dimensions

(Dimensions in mm)



- 1 Name plate
- 2 Adjustment element "1"
- 3 Adjustment element "2"
- 4 Valve mounting holes
- 5 Lockable screw S=24
- 6 Internal hexagon bolt S=10
- 7 O-rings 9.25×1.78  
(Ports A, B, P, T)
- 8 Pressure gauge connection  
G1/4 or M14×1.5, 12 deep  
Hexagon wrench S=6
- 9 Without check valve
- 10 With check valve

