

RE 26 076/02.03

Replaces: 05.02

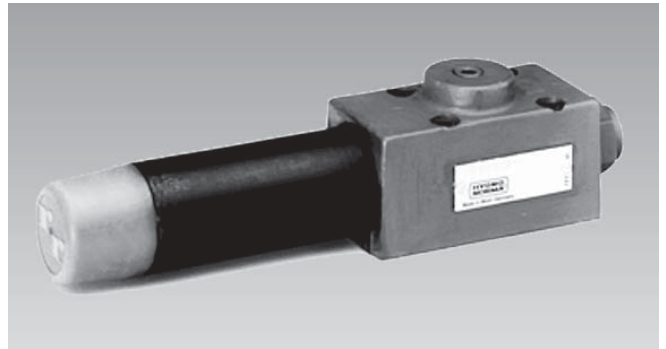
**Pressure sequence valve, direct operated,
Type DZ 6 DP**

Nominal size 6

Series 5X

Maximum operating pressure 315 bar

Maximum flow 60 L/min



K 4297-9

Type DZ 6 DP2-5X/...M..

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Features

- For subplate mounting
- Porting pattern to DIN 24 340 form A, **without** locating pin hole (standard)
- Porting pattern to ISO 4401 and CETOP–RP 121 H, **with** location pin hole, (ordering code .../60 at the end of the valve type code)
- Subplates see catalogue sheet RE 45 052 (separate order)
- 5 pressure stages
- 4 adjustment elements:
 - Rotary knob
 - Set screw with hexagon and protective cap
 - Lockable rotary knob with scale
 - Rotary knob with scale
- Check valve, optional



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Ordering details

For valve types available at short notice (Material No. and type), see page 4.

DZ 6 DP		- 5X/						*	
Direct operated pressure sequence valve NS 6				Further details in clear text					
Adjustment element				No code =		Without locating pin hole			
Rotary knob				= 1		With locating pin hole			
Set screw with hexagon and protective cap				= 2		NBR seals			
Lockable rotary knob with scale ¹⁾				= 3		FKM seals			
Rotary knob with scale				= 7		(other seals on request)			
Series 50 to 59 (50 to 59: unchanged installation and connection dimensions)				= 5X		⚠ Attention! The compatibility of the seals and pressure fluid has to be taken into account!			
Max. sequence pressure 25 bar				= 25		No code = With check valve M = Without check valve			
Max. sequence pressure 75 bar				= 75		No code = Internal pilot oil supply, internal leakage oil drain X = External pilot oil supply, internal leakage oil drain Y = Internal pilot oil supply, external leakage oil drain XY = External pilot oil supply, external leakage oil drain			
Max. sequence pressure 150 bar				= 150					
Max. sequence pressure 210 bar				= 210					
Max. sequence pressure 315 bar				= 315 ²⁾					

- ¹⁾ H-key with Material No. 008158 is included within the scope of supply.
²⁾ Only with adjustment element "2" and without check valve
³⁾ Locating pin 3 x 8 DIN EN ISO 8752, Material No. **R900005694** (separate order)

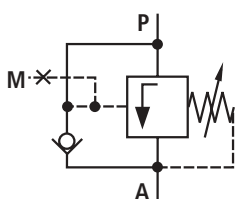
Preferred types (readily available)

Type	Material number
DZ 6 DP2-5X/25Y	R900403077
DZ 6 DP2-5X/75Y	R900481060
DZ 6 DP2-5X/150Y	R900481061
DZ 6 DP2-5X/210Y	R900481062
DZ 6 DP2-5X/315YM	R900513984

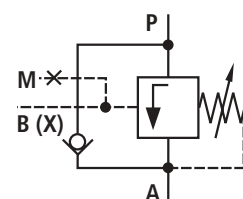
Preferred types and standard components are highlighted in the RPS (Standard Price list).

Symbols

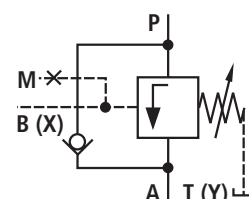
Version "-"



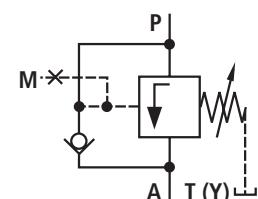
Version "X"



Version "XY"



Version "Y"



Function, section

The valve type DZ 6 DP is a direct operated pressure sequence valve. It is used for the pressure dependent connection of a second system.

The setting of the sequence pressure is via the adjustment element (4).

The compression spring (3) holds the control spool (2) in its initial position, the valve is closed. The pressure in port P is applied to the piston area of the control spool (2) via the control line (6) at the opposite side to the spring (3).

When the pressure in port P reaches the set value of the spring (3), then the control spool (2) is moved to the left and the connection P to A is opened. The system connected to port A is connected without a pressure decrease occurring in port P.

The control signal originates internally via the control line (6) from port P or externally via port B (X).

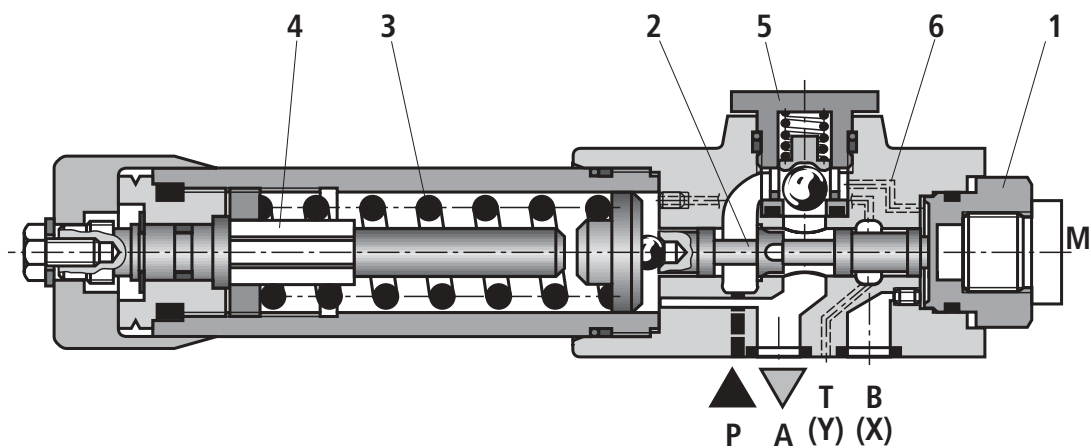
Depending on the use of the valve the leakage oil drain is externally via port T (Y) or internally via A.

⚠ Attention!

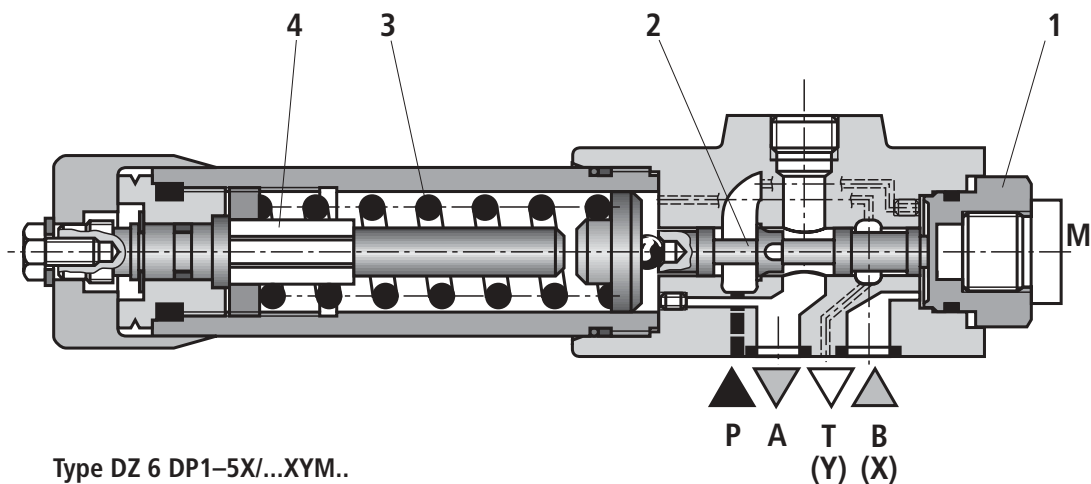
With **internal** leakage oil drain the **set** opening pressure **increases** by the pressure present in port "A".

For the free return of the pressure fluid from port A to port P a check valve (5) may optionally be installed.

A pressure gauge port (1) enables the monitoring of the sequence pressure set at the valve.



Type DZ 6 DP1-5X/.../..



Type DZ 6 DP1-5X/...XYM..

Technical data (for applications outside these parameters, please consult us!)

General

Installation		Optional
Ambient temperature range	°C	– 30 to + 80 (NBR seals) – 20 to + 80 (FKM seals)
Weight	kg	Approx. 1.2

Hydraulic

Maximum operating pressure	Ports P, A, B (X)	bar	Up to 315
	Port T (Y)	bar	Up to 160
Maximum sequence pressure (adjustable)		bar	Up to 25; up to 75; up to 150; up to 210; up to 315
Maximum flow		L/min	Up to 60
Pressure fluid			Mineral oil (HL, HLP) to DIN 51 524 ¹⁾ ; Fast bio-degradable pressure fluids to VDMA 24 568 (also see RE 90 221); HETG (rape seed oil) ¹⁾ ; HEPG (polyglycols) ²⁾ ; HEES (synthetic ester) ²⁾ ; other pressure fluids on request
Pressure fluid temperature range		°C	– 30 to +80 (with NBR seals)
		°C	– 20 to +80 (with FKM seals)
Viscosity range		mm ² /s	10 to 800
Cleanliness class to ISO code			Maximum permissible degree of contamination of the pressure fluid is to ISO 4406 (C) class 20/18/15 ³⁾

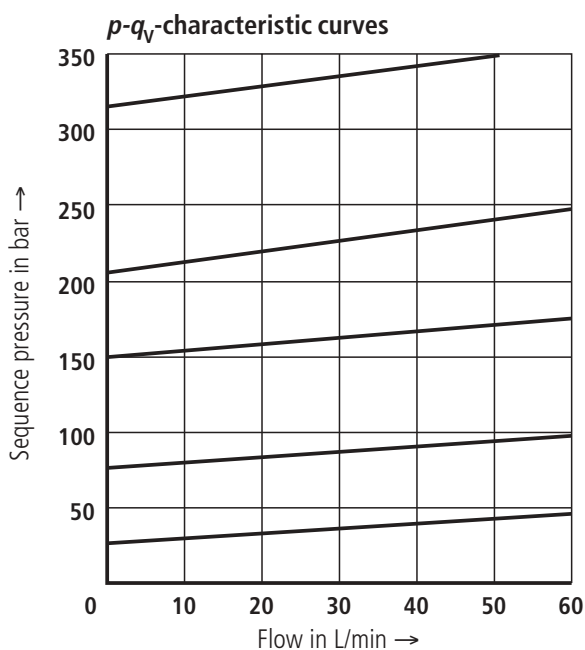
¹⁾ Suitable for NBR **and** FKM seals

²⁾ **Only** suitable for FKM seals

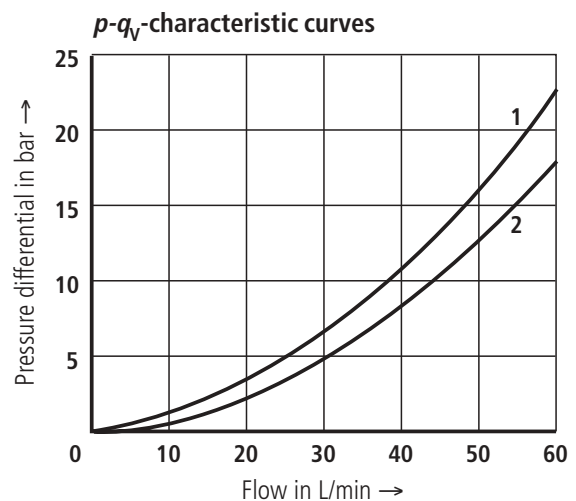
³⁾ The cleanliness class stated for the components must be adhered too in hydraulic systems. Effective filtration prevents faults from occurring and at the same time increases the component service life.

For the selection of filters see catalogue sheets RE 50 070, RE 50 076 and RE 50 081.

Characteristic curves (measured with HLP46, $\vartheta_{oil} = 40 \text{ °C} \pm 5 \text{ °C}$)

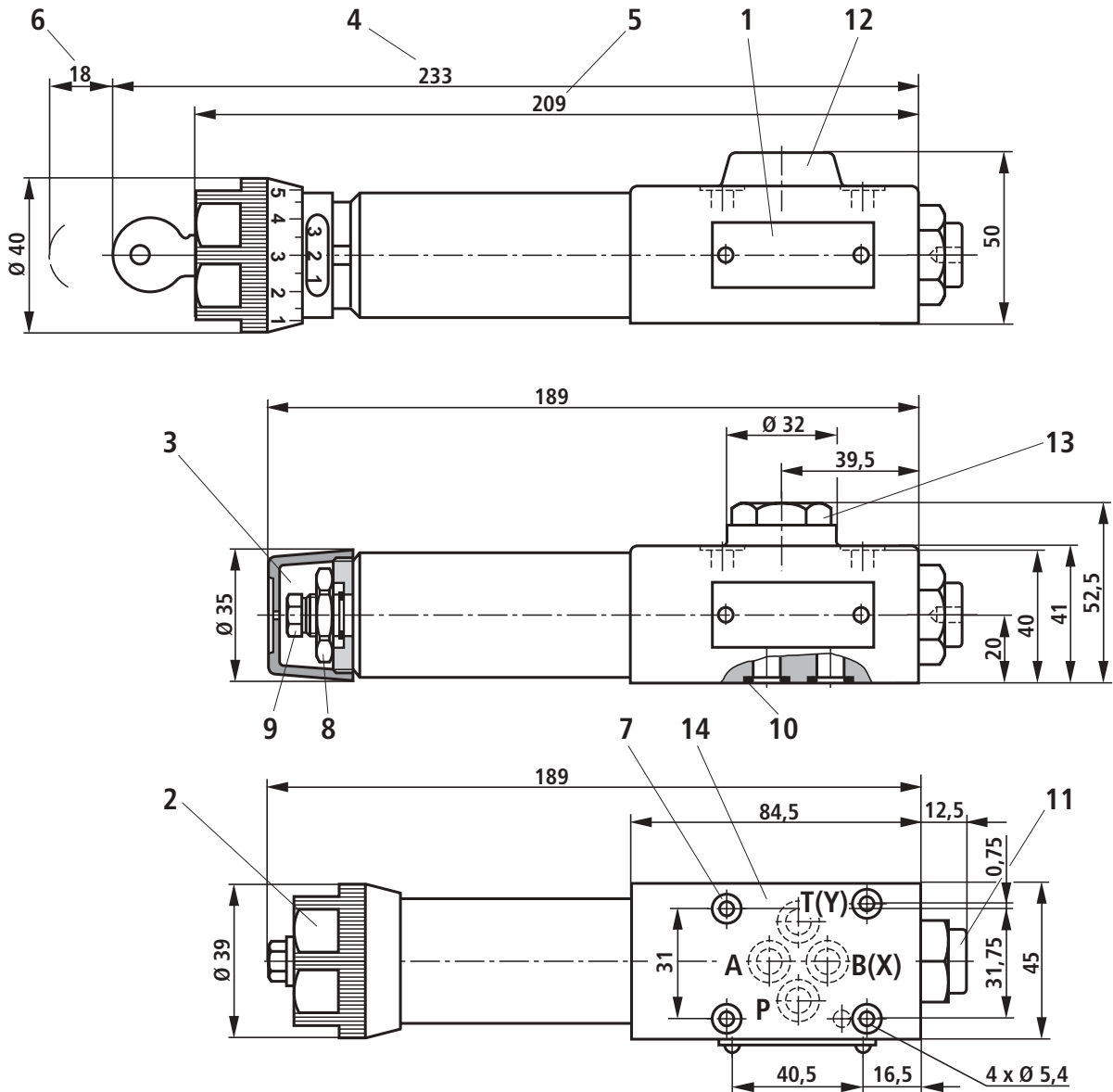


- 1 Δp - q_v -characteristic curve via check valve, flow from A to P
- 2 Δp - q_v -characteristic curve, flow from P to A



The characteristic curves are valid for the output pressure = zero over the entire flow range

Unit dimensions (dimensions in mm)



- 1 Name plate
- 2 Adjustment element "1"
- 3 Adjustment element "2"
- 4 Adjustment element "3"
- 5 Adjustment element "7"
- 6 Space required to remove the key
- 7 Valve fixing holes
- 8 Locknut 24A/F
- 9 Hexagon 10A/F
- 10 Same seal rings for ports A, B(X), P, T(Y)
- 11 Pressure gauge connection G 1/4; 12 deep; internal hexagon 6A/F
- 12 Without check valve
- 13 With check valve

- 14 Porting pattern to DIN 24 340 form A, **without** locating pin hole or porting pattern to ISO 4401 and CETOP-RP 121 H **with** locating pin hole
Locating pin $\varnothing 3 \times 8$, DIN EN ISO 8752
Material No. **R900005694**
(separate order)

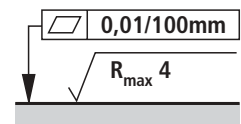
Subplates: G 341/01 (G 1/4)
G 342/01 (G 3/8)
G 502/01 (G 1/2)

to catalogue sheet RE 45 052 and

Valve fixing screws

4 off M5 x 50 DIN 912 - 10.9,
Tightening torque $M_A = 8,9 \text{ Nm}$,
must be ordered separately.

Pipe thread (G..) to ISO 228/1



Required surface finish of the mating piece

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