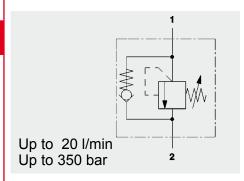
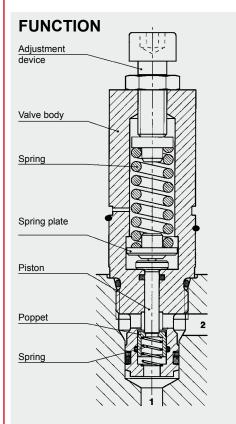
DAG INTERNATIONAL



Pressure Sequence Valve Poppet Type, Direct-Acting Metric Cartridge – 350 bar



FEATURES

- To connect additional consumers once certain pressures are reached
- To connect cylinders in sequence circuits
- As a pressure relief valve if free flow is required in the opposite direction
- Excellent dynamic performance
- Excellent stability throughout flow range
- Hardened and ground valve components to ensure minimal wear and extended service life
- Adjustable throughout flow range
- Various pressure ranges up to 350 bar
- Optional zinc-plated version available

SPECIFICATIONS

Weight:

Operating pressure:	max. 350 bar		
Nominal flow:	max. 20 l/min		
Pressure setting ranges:	100 / 200 / 250 / 350 bar		
Sequence pressure tolerance:	± 5 bar below 100 bar, above 100 bar ±5%		
Leakage:	leakage-free (max. 5 drops ≘ 0,25 cm³/min at 350 bar)		
Cracking proceure from 2 . 1:	0.5 bar	0,23 cm /min at 330 bar)	
Cracking pressure from 2→1:			
Media operating temperature range:	min20 °C to max. +120 °C		
Ambient temperature range:	min20 °C to max. +120 °C		
Operating fluid:	hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 7.4 mm²/s to max. 420 mm²/s		
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner		
MTTF _d :	150 years (see "Conditions and instructions for valves" in brochure 5.300)		
Installation:	No orientation restrictions, preferably horizontal		
Materials:	Valve body:	high tensile steel	
	Piston:	hardened and ground steel	
	Seals:	FKM (standard) NBR (optional, media temperature range -30 °C to +100 °C)	
	Back-up rings:	PTFE	
Cavity:	06020		

0.22 kg

The pressure sequence valve DZ5E is a direct-acting, spring-loaded poppet valve with built-in check valve. In the normal position, the path from port 1 to port 2 is

If the pressure exceeds the pre-set spring tension, the piston and poppet move together in a closed condition to the upper limit of the poppet. If the pressure continues to rise, the piston unblocks the path from 1 to 2 (consumer) so that oil can flow. This opens the connection to the additional consumers from port 2. In the return direction from port 2 to 1, the main piston is pushed back by the spring into its initial position and the poppet opens against the corresponding spring and allows free flow from port 2 to port 1. The spring chamber pressure is vented to atmosphere.

DZ5E - 01X - 200 V 180

Basic model -

Pressure sequence valve, metric

Type

01 = standard

Pressure setting range

100 = to 100 bar

200 = to 200 bar

250 = to 250 bar

350 = to 350 bar

Type of adjustment

= Allen head (standard) Other adjustment types on request

Sequence pressure setting

No details = no setting 180 = 180 bar

Other sequence pressures on request

Standard models

Model code	Part No.
DZ5E-01X-100V	710297
DZ5E-01X-200V	710298
DZ5E-01X-250V	710296
DZ5E-01X-350V	710299

Other models on request

Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
R06020-01X-01	275266	Steel, zinc-plated	G3/8	420 bar
R06020-10X-01	276842	Steel, zinc-plated	G3/8	420 bar

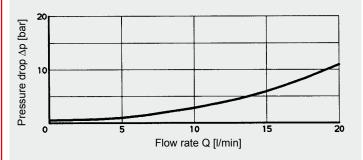
Seal kits

Code	Part No.
SEAL KIT 06020-NBR	3119017
SEAL KIT 06020-FKM	3262477

PERFORMANCE

Pressure drop, dependent on flow rate

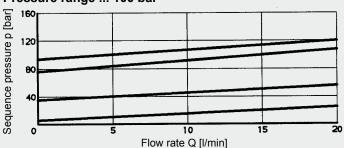
Measured at $v = 36 \text{ mm}^2/\text{s}$ and $T_{oil} = 50 ^{\circ}\text{C}$, Flow direction 2→1



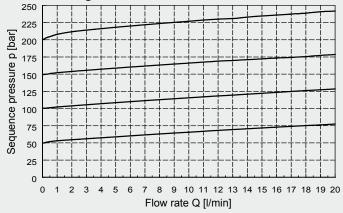
Sequence pressure, dependent on flow rate

Measured at $v = 36 \text{ mm}^2/\text{s}$ and $T_{oil} = 50 \text{ °C}$, Flow direction 1→2

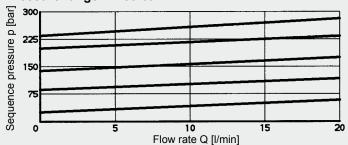
Pressure range ... 100 bar



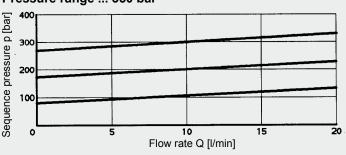
Pressure range ... 100 bar



Pressure range ... 250 bar

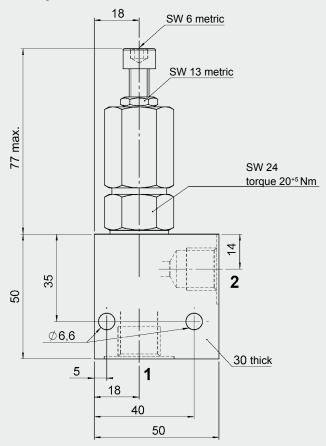


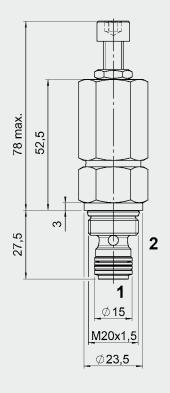
Pressure range ... 350 bar



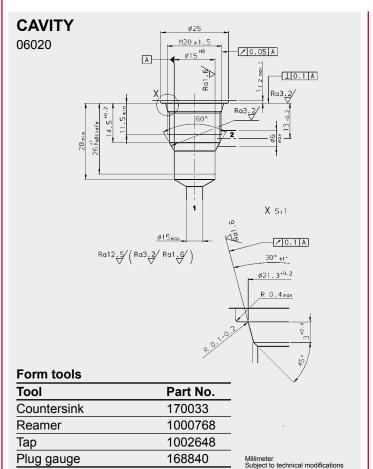
DIMENSIONS

Type of adjustment





Millimeter Subject to technical modifications



NOTEThe 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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