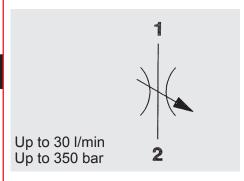
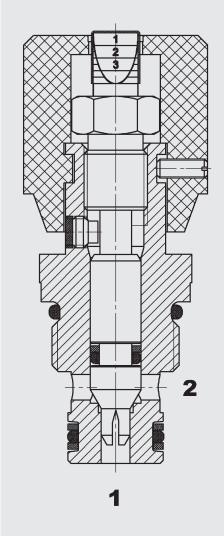


YDAC INTERNATIONAL



Needle Valve Direct-Acting Metric Cartridge – 350 barDV5E

FUNCTION



The DV5E is a flow control valve which controls the flow rate by adjusting the cross section. The flow rate is dependent on the pressure differential and the viscosity.

Starting with the control spindle in the fully closed position, the flow rate increases according to the relevant curve as the number of turns of the control knob is increased.

The flow is controlled in both directions. The scale and coloured rings on the top of the control knob enable accurate repeat setting.

FEATURES

- For regulating the speed of loads
- For fine adjustment and shut-off of the flow
- For system-related damping in hydraulic circuits
- Spindle patented secured before complete loosening
- An Allen set-screw locks the setting of the knob
- Optional zinc-plated version available

SPECIFICATIONS

Operating pressure:	max. 350 bar		
Nominal flow:	max. 30 l/min		
Media operating temperature range:	min20 °C to max. +80 °C		
Ambient temperature range:	min20 °C to max. +80 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 2.8 mm²/s to max. 380 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:	steel	
	Piston:	steel	
	Seals:	FKM (standard) NBR (optional, media temperature range -30 °C to +80 °C)	
	Back-up rings:	PTFE	
Cavity:	06020		
Weight:	0.11 kg		

MODEL CODE

DV5E - 01 X

Basic model -

Needle valve, metric

= standard (phosphated, seals FKM)

= zinc-plated, seals NBR = zinc-plated, seals FKM

= fine throttle spindle (phosphated, seals FKM)

(determined by manufacturer)

Standard models

Model code	Part No.
DV5E-01X	710300
DV5E-02X	3139707
DV5E-04X	3094196
DV5E-11X	710302

Other models on request

Standard in-line bodies

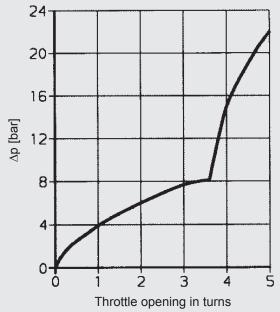
Code	Part No.	Material	Ports	Pressure
R06020-01X-01	275266	Steel, zinc- plated	G3/8	350 bar
R06020-10X-01	276842	Steel, zinc- plated	G3/8	350 bar

Seal kits

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

PERFORMANCE

Opening characteristics



 $\Delta p = 10 \text{ bar} = \text{constant}$

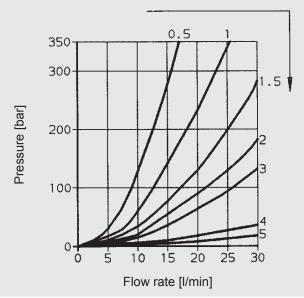
Pressure drop, dependent on flow rate

DV5E-01X

Measured at $v = 36 \text{ mm}^2/\text{s}$

 $T_{oil} = 45 \, ^{\circ}C$

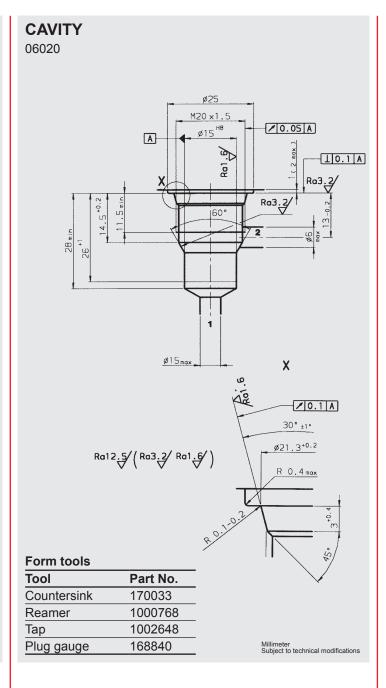
Throttle opening in turns



DIMENSIONS Ø29

47.5 max. 42 hex. SW24 torque 30+5Nm က 25,5 2 Ø15 M20x1.5 Ø23.5

Millimeter Subject to technical modifications



NOTE
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 describent. department.
Subject to technical modifications.

HYDAC Fluidtechnik GmbH Justus-von-Liebig-Str. D-66280 Sulzbach/Saar Tel: 0 68 97 /509-01 Fax: 0 68 97 /509-598 E-Mail: flutec@hydac.com

