4.2.4

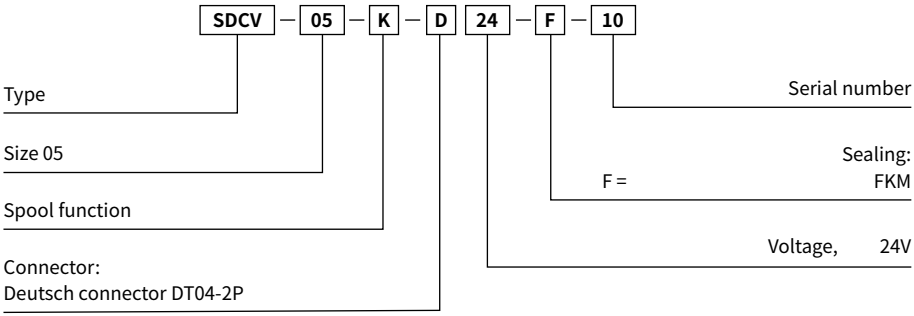
SDCV-05 TYPE

ELECTRIC ON-OFF VALVE

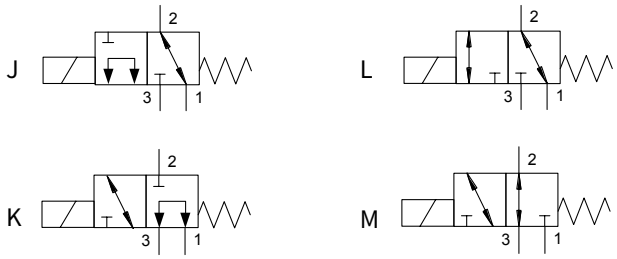
Size	05
Rated pressure(bar)	60
Rated flow(L/min)	15

Contents

Ordering code



Symbol:



(If you need other specifications, please consult with our company.)

Description

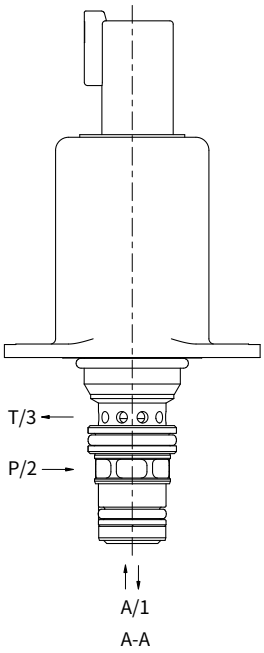
Direct-acting control, cartridge structure, suitable for a special design of mobile machinery.

Operation

The SDCV-05 solenoid on-off valve is an electromagnet-operated reversing slide valve, which is used to control the flow direction of the oil.

When the solenoid on-off valve works, the solenoid coil is energized by the external power supply, and the wet electromagnet generates a thrust force, which pushed the valve core through the push rod to achieve reversal so as to realize the purpose of controlling the flow of the oil.

When the electromagnet is de-energized, the valve core is pushed to the initial position by the return spring.



Features

- Quick response
- Compact size
- Oil-immersed DC solenoid

Technical data

General

Weight	0.235Kg
Mounting position (recommended)	Optional, valve sleeve vertically downward
$MTTF_d$ - value	150 years
Fluid temperature range	-30 to 80°C

Hydraulic

Max. pressure pump	P_P = 60bar
Max. pressure tank	P_T = 30bar
Maximum permitted degree of the contamination of hydraulic fluid cleanliness class	NAS1638 Class 9 and ISO4406 Class 20/18/15
Hydraulic fluid	Mineral oil according to DIN 51524
Hydraulic fluid temperature range	-30 to 105°C
Leakage	< 100mL/min (de-energized)
	< 100mL/min (energized)
Filterscreen size	140µm (Port P)

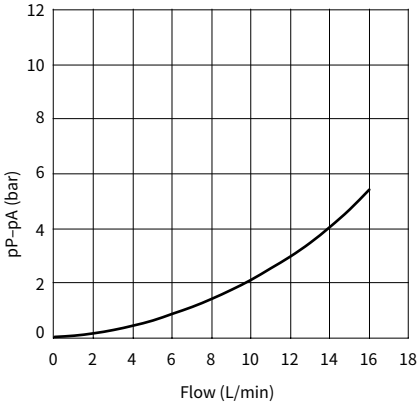
Electrical

Operating voltage (amplifier)	24 V
Resistance at 20° C	34 Ω
Connector	Deutsch Connector DT04-2P
Protection Class	IP6K6/IPX9K
Response time	t_{on} < 40ms
	t_{off} < 40ms

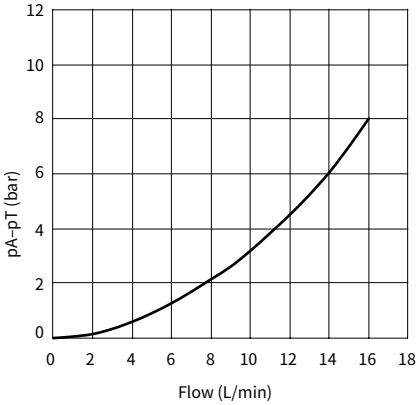
Characteristic curves (using HLP46, T=50°C)

·Flow characteristics

Pressure drop （P→A）

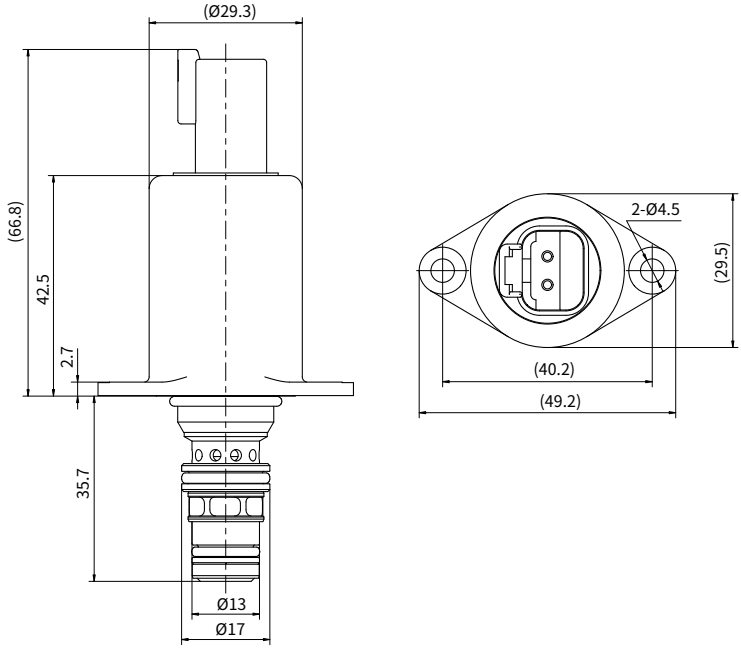


Pressure drop （A→T）

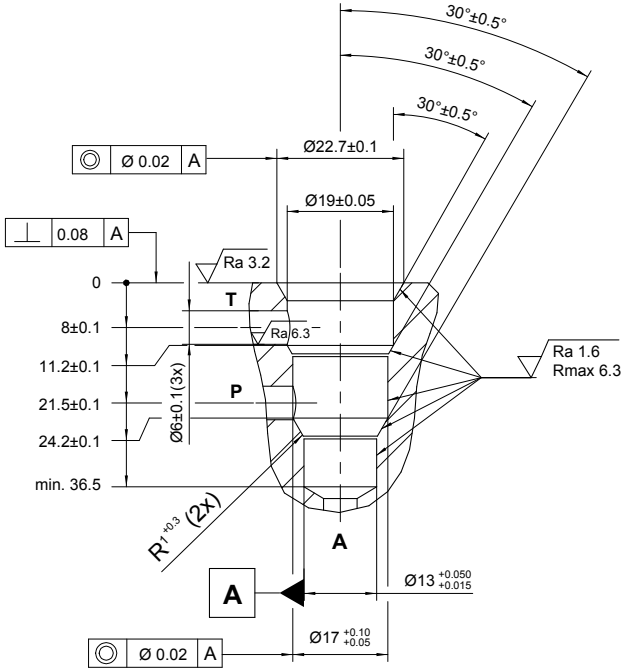


Unit dimensions

(dimensions in mm)



Cavity dimensions



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