

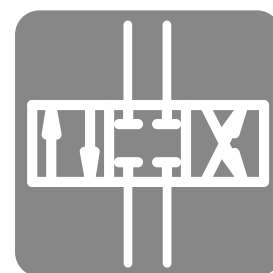
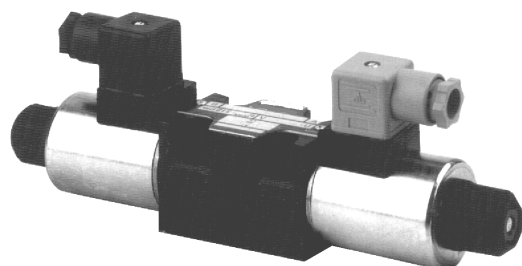
4/2- & 4/3-way directional spool valve type SAM, SBM, SCM (size 6)

operating pressure p_{\max}

320 bar

volume flow V_{\max}

60 L/min



Product characteristics

Spool valves belong to the group of directional control valves. They control the direction of movement and the speed of single and double-acting hydraulic consumers.

The 4/2 and 4/3 directional spool valves type SAM, SBM, SCM and SAL are available as manifold mounting valves. They are available with nominal size 6 and 10 hole pattern (NG-6, NG-10).

Features and benefits:

- low pressure loss
- high power density
- directly controlled
- solenoid easily interchangeable
- inductive position monitoring of the neutral position

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Technical data

General

weight	1.5 kg with 1 DC-solenoid
	2.0 kg with 2 DC-solenoids
	1.25 kg with 1 AC-solenoid
	1.55 kg with 2 AC-solenoids
ambient temperature	-30 to +50 °C
mounting position	arbitrary (preferably horizontal)
max. permissible switching frequency	18,000/h

Hydraulic parameters

operating pressure	P, A, B : 320 bar
	T: 160 bar
hydraulic fluid temperature	-25 to +70 °C
viscosity	10-600 mm ² /s
permissible degree of pollution	max. class 22/19/16 according ISO 4406
filter recommendation	filter retention rate $\beta_{25} > 75$
overlap	see switching symbols

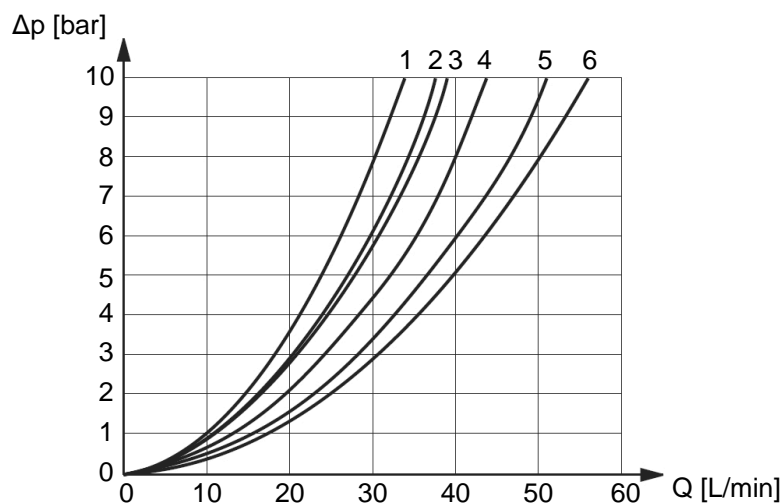
Actuation

actuation	electromagnetic
voltage	DC; AC see order information
nominal voltage	see order information
power consumption	see order information
duty cycle	continuous operation
protection class according DIN 40050	IP65 with plug
connection type	connector DIN43650-AF2-PG9

Characteristic lines

measured at 50 °C temperature of hydraulic fluid, viscosity 35 mm²/s, tolerance ±5 %

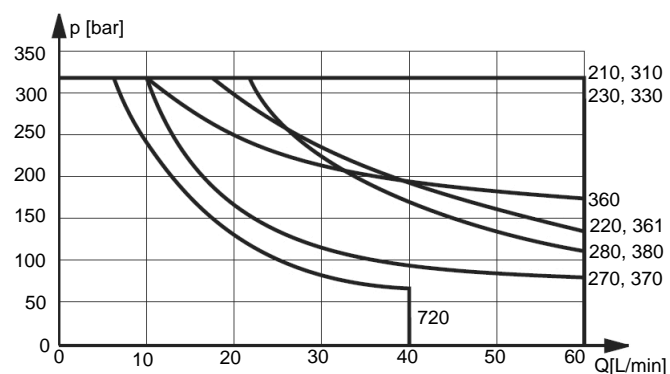
symbol	flow from:				
	P→A	P→B	A→T	B→T	P→T
230 330 360	5	5	5	5	
310 210	6	6	6	6	5
280 380	5	5	6	6	
270 370	1	1	2	2	3
720	4	4	6	6	
220	5	5	4	4	
217	1	3			
361		4	6		



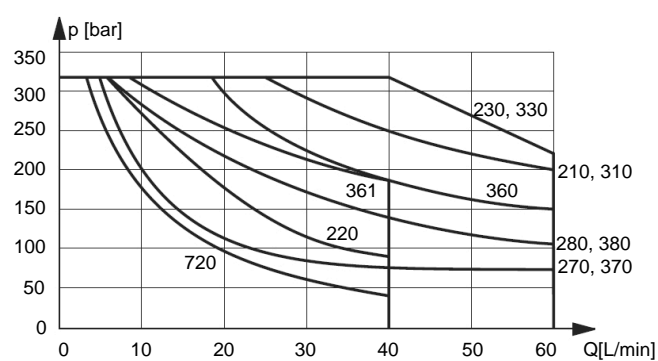
Switching power limits

The diagrams show the switching power limits of the valves in applications where all 4 ports are in use. If there is flow through the valve in only one direction, the operating limits are modified. The results could thus be less advantageous for individual cases.

DC (=)

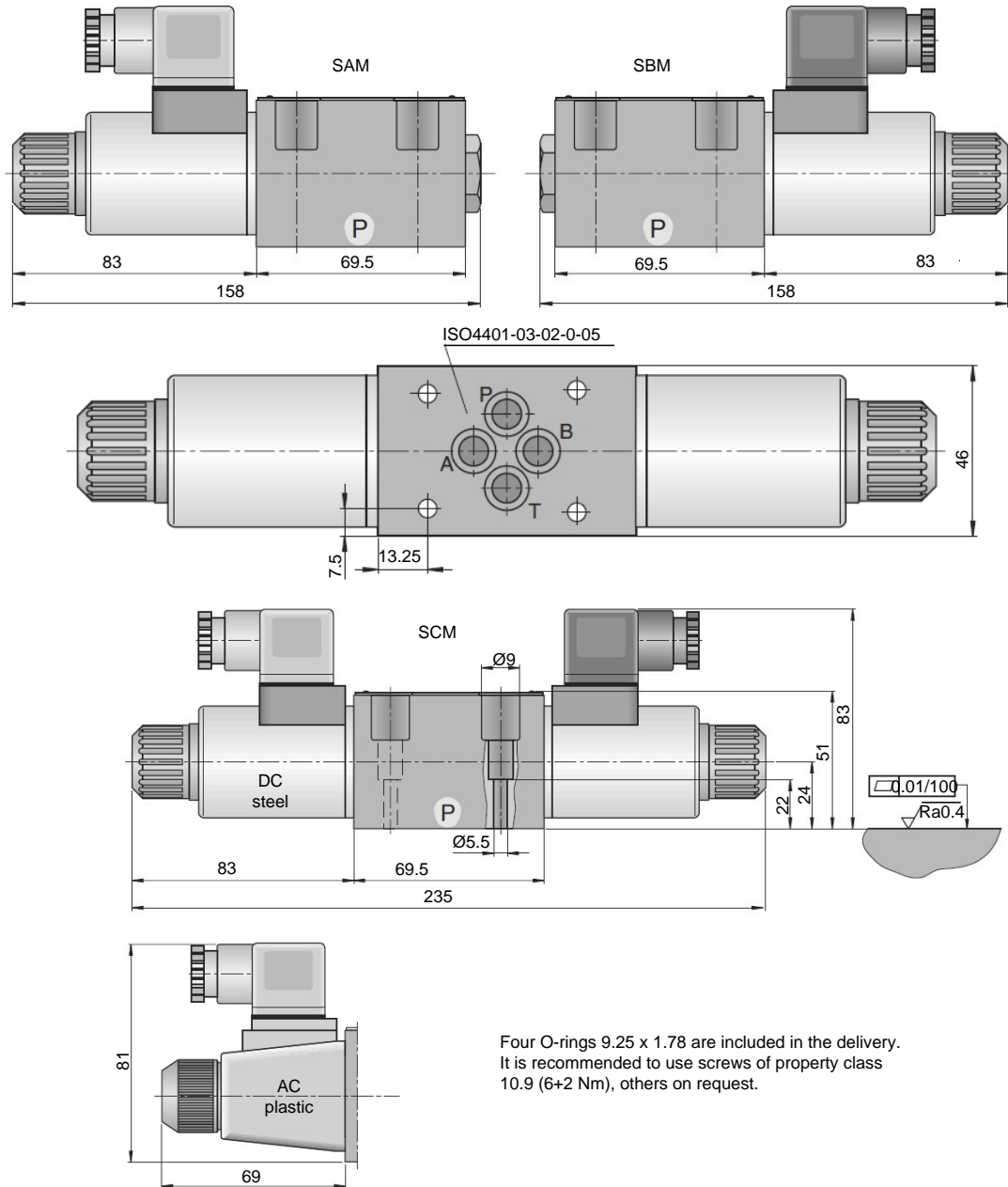


AC (-)



Dimensions and connections

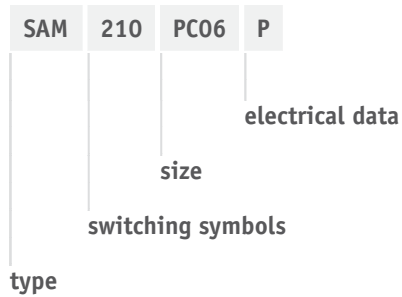
Dimensions are given in mm.



Four O-rings 9.25 x 1.78 are included in the delivery.
It is recommended to use screws of property class 10.9 (6+2 Nm), others on request.

Order information

Type code



type

SAM	solenoid on side A
SBM	solenoid on side B
SCM	2 solenoids

switching symbols

	SAM	overlap	SBM	overlap		SCM	overlap
210					220		
217					310		
220					330		
230					360		
270					361		
280					370		
720					380		

size

PC06 | size 6

electrical data

N | 12 V (DC) 30 W

P | 24 V (DC) 30 W

A | 115 V 50/60 Hz (AC)
switching power: 180 VA
holding capacity: 50 VA

B | 230 V 50/60 Hz (AC)
switching power: 204 VA
holding capacity: 50 VA

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