



SVM06...-..

GENERAL DESCRIPTION

✓ 4/3- and 4/2- way directional control valves with solenoid operation

- ✓ Thread connection of working ports "A" and "B" except for RH06...1-.../...GFS modification
- ✓ Up to 8 sections for horizontal stacking & up to 4 sections for vertical stacking



Scheme for vertical stacking

The RH06...1-.../...GF... valves consist of a spool , housing , springs and solenoids.

The valves are used for hydraulic power control.

These modifications are designed with two-spring

centered spool about 4/3- and 4/2- valves. The housing

has 5-chambers and a horizontal "T" duct. Working ports

"A" and "B" are threaded directly into the valve housing except for RH06...1-.../...GFS modification. The valve location during assembly is of minor importance, but the horizontal position is generally recommended.

RH06...1-.../...GF... model is designed as an end plate , at modular mounting of directional control valves type RH06...1-.../...GFM... and they are used for vertical stacking - see next page.

RH06...1-.../...GFS... , RH06...1-.../...GFST... & RH06...1-.../...GFSTS... are designed for horizontal stacking.

All these modifications supersedes completely those with plate , but at lower cost and the maximum flow is reduced - max. flow - 40l/min.



/6\ caproni)

STACKABLE DIRECTIONAL CONTROL VALVES

GENERAL DESCRIPTION

Vertical stacking

SVM06...-..







6 caproni

STACKABLE DIRECTIONAL CONTROL VALVES

SVM06...-...

ORDERING CODE

RH06...1-.../...G...



FUNCTIONAL SYMBOLS								
DESIG- NATION	SYMBOL	INTERMEDIATE	DESIG- NATION	SYMBOL	INTERMEDIATE	DESIG- NATION	SYMBOL	INTERMEDIATE
00			14			33		
01			16			35	white	
02	HILLIXK		24			45		
04			28			74		

We reserve the right to change specifications without notice.

www.caproni.bg



5/27

















SVM06...-...

	EGULATOR 3-WAY STACKABL	E WITHOUT FEEDBACK FRTP06
	TECHNICAL DATA)
		GENERA
DATA	UNIT	VALUE/RANGE
Installation position		optional, preferably horizontal
Ambient temperature range	°C	-20+50
Weight	kg	1,600
Hysteresis	%	<6
Repeatability	%	±1,5
		HYDRAUL
Max. operating pressure	MPa	21
Regulated flow Max. inlet flow	l/min	25 40
Hydraulic fluid-mineral oil: -viscosity -filtration degree acc to ISO 4406 -temperature	mm²/s class °C	10400 18/16/13 -2080
Cyclic duration	%	100
Waterproof		IP65
Heat insulation		Н
Coil resistance cold warm	W	2,2 3
Max current	А	2,5
		AMPLIFIE

EDAR 1211-1 -25 Order separately

This digital amplifier EDAR 1211-1-25 is designed to control direct operated proportional directional control valves and proportional flow regulators with one solenoid without feedback - see "List: EDAR1211-1-25".

We reserve the right to change specifications without notice. www.caproni.bg





SVM06...-..

DIGITAL AMPLIFIER FOR PROPORTIONAL VALVES WITHOUT FEEDBACK

EDAR1211-1-25

EDAR 1211-1-25

GENERAL DESCRIPTION

This digital amplifier EDAR 1211-1-25 is designed to control direct operated proportional directional control valves and proportional flow regulators with one solenoid without feedback. There are few adjustments for base parameters: -Imax. to control the maximum current to the solenoid -Imin. to correct the positive overlap (dead band elimination) -Ramps to set increasing/decreasing time on channel "a" -PWM to regulate hysteresis and stability (accuracy) of the valve -

high frequency - high accuracy , high hysteresys

low frequency - low accuracy , low hysteresys. The adjustments set realized by 4 push buttons on the front cover. The amplifier is designed for rail mounting type DIN EN 50022.

BLOCK DIAGRAM



6 caproni

STACKABLE DIRECTIONAL CONTROL VALVES

SVM06...-...

DIGITAL AMPLIFIER FOR	R PROPORTIONAL VALVES W	ITHOUT FEEDBACK EDAR1211-1
	TECHNICAL DATA	
DATA	UNIT	VALUE/RANGE
Power supply	V DC	24 (1932)
Max. power consumption	W	35
Max. output current	А	2,7
Power supply polarity protection		
Output short-circuit protection		
Available reference signals	V	0+10
	mA	020 420
		4 preset values selected by 4 discrete inputs
Ramps		Two ramps according to rising and falling reference signal
Ramps (duration)	sec	0,019,99
Opto isulated output signal - "OK"	mA V DC	I _{max.} =50 U _{max.} =35
Opto isulated input signal - "ENABLE"	V DC	24
4 opto isulated input signal for preset values selection	V DC	24
PWM frequency	Hz	80500
Reference signal offset correction	%	-9,99+9,99
Mounting		Rail type DIN EN 50022
Ambient temperature	°C	050
Storage temperature	°C	-20+50
Dimensions	mm	105x90x60

www.caproni.bg



B

49,5±0,1

9

99

SVM06...-..



We reserve the right to change specifications without notice.

SDCV-Sept 2016

www.caproni.bg







SVM06...-...

ACCESSORIES

SUBPLATES

All dimensions are shown in mm. Subplates are available with GF , GFM and GFMS modification (vertical stackable control blocks).



OUTLET COVER

Outlet covers are available with horizontal stackable control blocks with vertical superstructure - OC06... and with vertical stackable control blocks as peak plate when we realize series connection - OCVS06....





6 oaproni)

STACKABLE DIRECTIONAL CONTROL VALVES

SVM06...-..

GENERAL DESCRIPTION





Valve assembly: SVM06...-...

✓ 4/2 and 4/3 - way directional control valves with solenoid operation made up with inlet cover , outlet cover and cover.

 \checkmark Thread connection of ports "A" , "B" "P" and "T".

✓ Possibility of vertical superstructure with pilot operated check valve , throttle check valve or both standard component.

✓ Up to 8 sections without vertical superstructure.

Up to 6 sections with vertical superstructure.

✓ Possibility of parallel and series connection.

Directional control valves are stackable type RH06...1-.../...GFS...-for vertical superstructure , and RH06...1-.../...GFST...& RH06...1-.../...GFSTS... - for horizontal stacking.

The stackable valves for vertical superstructure are standard version CETOP 3 modular valves.





<u>6</u> caproni	STACKA	BLE DIRECTIONAL CONTROL VAI	LVES (SVM06
SVM06		ORDERING CODE	(Horizontal stacki
SVM06 - Stackable valve nominal size 06 - Stackable valve nominal size 06 - Sections: Code Number of sections 18 Inlet covers - types (see page 22/27): Code Without cover omi Without valves for parallel connection ICP0 Without valves for series connection ICVP0 With pressure relief for parallel connection ICVP0 With pressure relief for series connection ICVD0 With pressure relief for parallel connection ICVUF With pressure relief & unloading valves for series connection ICVUF With pressure relief & unloading valves for series connection ICVUF		Directional control /alves - modifications /see page 9/2711/27): GFS GFS GFST GFST GFST GFST GFSTS GFST Directional control valves - supply voltages (see page 12/27): 12V DC 012/00 24V DC 024/00 110V RAC 110/50 220V RAC 220/50	* • • • • • • • • • • • • • • • • • • •
Inlet covers - threads (see page 22/27): M16x1,5 M18x1,5 G3/8"	Dde M1 M2 G3	Directional control valves - threads (see page 4/27):CodeM14x1,5omitM16x1,5M1M18x1,5M2G3/8"G1G1/4"G2	"T"-passageOutlet covers - threads (see page 22/27):CodeM16x1,5M1M18x1,5M2G3/8"G1G1/2"G3
Inlet covers - relief valve pressure adjustment ranges (see page 22/27): without relief valve 8100bar 15210bar 108315bar	Code omit 10 21 32	Operating sections:Codefirst sectionAsecond sectionBthird sectionCfourth sectionDfifth sectionEsixth sectionF	Outlet covers - types (see page 22/27): Code without outlet cover omit outlet cover for vertical buildind up OC06
Inlet covers - unloading valve supply voltages (see page 22/27): without unloading valve 12V DC 24V DC 24V DC 110V RAC 220V RAC Proportional flow regu	Code omit 12 24 11 22 lator Code	seventh sectionGeighth sectionHOperating sections - functional symbols (see page 4/27):Codefunctional symbol0099	- building up valves (see page 24/27): without valves omit with pilot operated check & throttle check valve with pilot operated check valve with throttle check T valve with pilot operated check & dual KR
(see pages 13/2717 without regulator with regulator	omit FR		* Repeat for each sections.



* Repeat for each sections.

STACKABLE DIRECTIONAL CONTROL V	SVI	SVM06	
ACCESSORIES			
			STUDS
Studs: M8xL (3pcs per block).	Number of		1
Studs. Moze (spes per block).	Number of sections	L(mm)	
│ _→ •	For 1 section For 2 sections	94 140	-
	For 3 sections	186	
	For 4 sections For 5 sections	232 278	
	For 6 sections For 7 sections	324 370	-
	For 8 sections	416]
		В	RACKETS
Fixing brackets: (2pcs per block)	\bigcap		
Manufacturing code - 217169	O		
	A		
		(NUTS
Nuts: M8 DIN934/8 (3pcs per block). Tightening torque - 810Nm.			
		()	ASHERS
Washers: Ø8 DIN7980 (5pcs per block).			
			BOLTS
Bolts: M8x16 DIN933 10.9 (2pcs per block). Tightening torque - 40	NM.		
			SCREWS
Scrower MEx DIN012.10.0 (depend on vertical building up element			ENm
Screws: M5x DIN912 10.9 (depend on vertical building up elements	b). Iigniening (orque - 9	, ƏINIII.
We reserve the right to change specifications without notice. www.ca	proni.bg	SDC	/-Sept 2016



We reserve the right to change specifications without notice.

www.caproni.bg



We reserve the right to change specifications without notice.

www.caproni.bg



BULGARIA , 6100 KAZANLAK , 45 STOLETOV Str. Tel ::+359/431/62 229 , +359/431/6132 , Fax:+359/431/62 230 , +359/431/63 134 E-mail :caproni@caproni.bg , WEB:http://www.caproni.bg