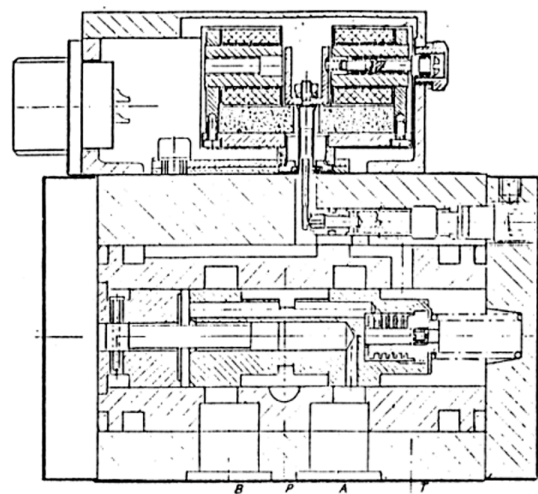
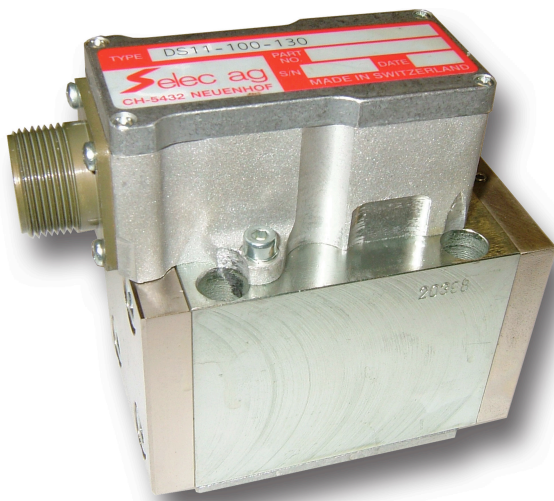


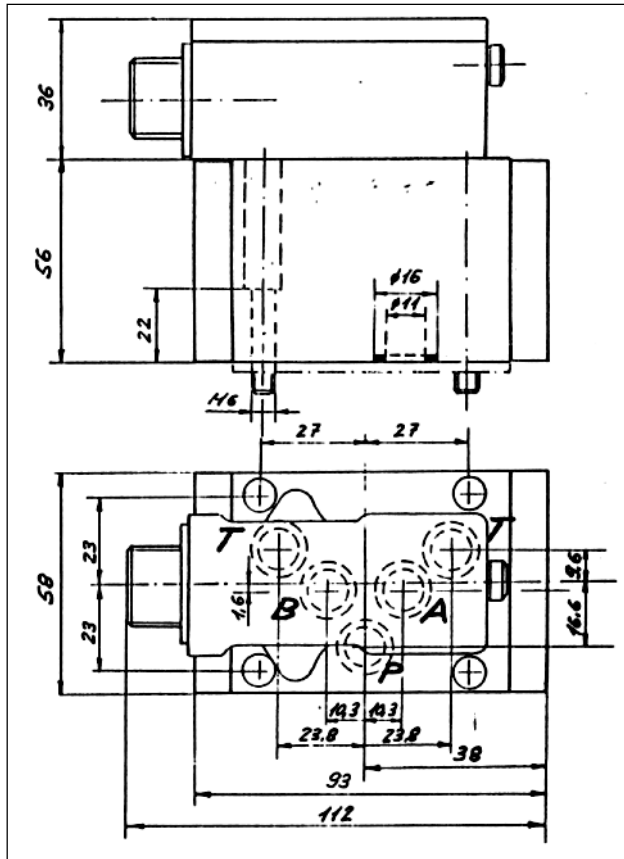
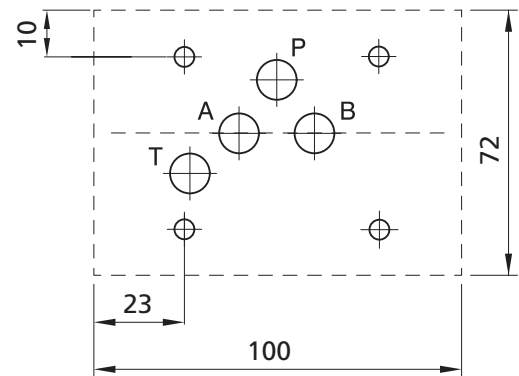
### Characteristics of DS11

- Servovalve for position-, force- or pressure control
- Pressure reduction and pressure relief is possible
- Two stage servovalve with mechanical feedback
- Fully iron
- Rugged, long-life design
- Attachment pattern NG 10 / Cetop 05 for 4-ports
- High resolution
- High pressure application
- Easy field maintenance

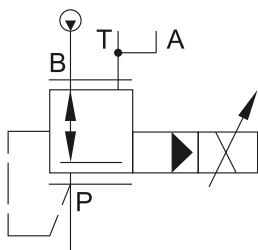
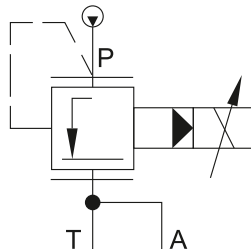


### Technical data DS11

Rated Flow $\pm 10\%$ at 70 bar $\Delta P$ drop	100 L/min
Frequency response at 90° Phase Shift , 210bar, at 40% amplitude	80 Hz
Step response	10 ms
Leakage at 70 bar, 50 cSt	0.4 L/min
Attachement pattern	Cetop 05 / NG 10
Maximum pressure, port P, A, B	350 bar (420 bar on request)
Maximum pressure, port T	100 bar
Temperature range	-20 to +90 °C
Fluid viscosity	20 to 380 cSt
Resolution	0,2%
Hysteresis	<0.3%
Null point shift for pressure change of 20%	1%
Null point shift for viscosity change of 30 cSt	1.5%
Electrical feedback	No
Electrical connector	4 pin / MS3106R14S-2S
Amplifier electronics	External amplifier electronics available (AE-1 or AE-1D)
Weight	2.4 kg

**Dimensions**

**Connection (View application)**

**Hydraulic Schema**

Depending on attachment configuration the DS11 performs pressure reduction or pressure relief.

**Pressure reduction**

**Pressure relief**

**Electrical Data**

Coil	Typ	40	80	100	130	200
Parallel connection	max. J [mA]	52	104	130	170	350
	max. U [V]	32	16	10	8	5
Serial connection	max. J [mA]	27	53	66	86	175
	max. U [V]	63	31	21	15	9
Resistance per coil at	70° [Ω]	1200	300	160	90	24

**Coil 130mA standard.** Coil 40 mA, 80 mA, 100 mA, 200 mA on request.

# Orderinformation

DS6 or DS11

□ □ □ □ □ □ □

Code	Model
<b>DS6</b>	DS6
<b>DS11</b>	DS11

Code	Customer design
<b>C</b>	Customer design
<b>N</b>	Standard design

Code	A+T ports <sup>*1</sup>
<b>S</b>	A+T ports seperated (standard)
<b>C</b>	A+T ports internally connected

Code	Type of protection
<b>S</b>	IP65 (only DS6)
<b>N</b>	IP56 (Standard)

Code	Input pressure <sup>*2</sup>
<b>040</b>	40 bar
<b>070</b>	70 bar
<b>140</b>	140 bar
<b>210</b>	210 bar
<b>315</b>	315 bar
<b>350</b>	350 bar
<b>420</b>	420 bar

Code	Coil magnetic system
<b>40</b>	40 mA
<b>80</b>	80 mA
<b>100</b>	100 mA
<b>130</b>	130 mA (Standard)
<b>200</b>	200 mA

Code	Seal material
<b>V</b>	Viton (FPM, FKM)
<b>N</b>	NBR

\*1) When A+T connected, no line T is required.  
 Note! An eventual pressure in A (when high flow) increases pressure in T which increases the controlled pressure in P.

\*2) The controlled pressure is preadjusted by Selec to ½ input pressure when no current.