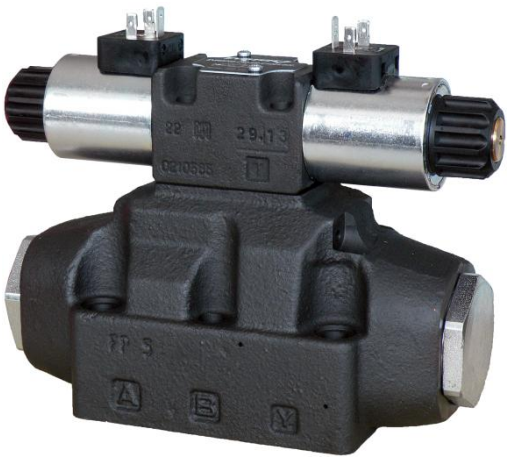
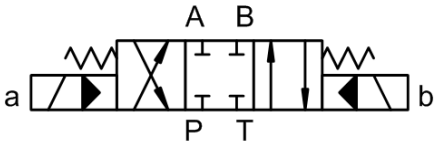
EVDS-P07 Series



Technical specification

Application:	Pilot operated distributor (solenoid controlled)
Size:	ND07 – ISO4401-07 (CETOP 07)
Flow rate:	max. 300 l/min
Pressure:	max. 350 bar on P, A and B port max. 210 bar on T port (external drainage) max. 140 bar on T port (internal drainage)
Ambient temperature range:	-20 to +50°C
Fluid temperature range:	-20 to +80°C
Fluid viscosity range:	10 to 400 cSt
Recommended viscosity:	25 cSt
Fluid contamination degree:	according to ISO 4406:1999 class 20/18/15
Weight:	max. 8.6 kg

Hydraulic symbol:



Order information

Valve assembly part number

	Valve				Coil type		Pilot drain		Accessories	
	Type		Size	Spool type	Electric connection	Power supply	Piloting	Drainage	Seal	Option
	EVDS		P07	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6	Table 7
Example	EVDS	-	P07	S1	C1	D24	E	E	B	00

Tables

Table 1

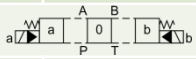
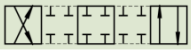
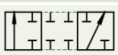
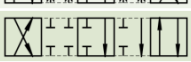
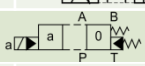
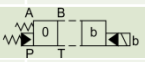
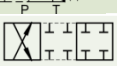
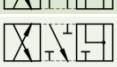
Code	Type	Code	Type	Code	Type	Code	Type
		S10		SA4		SB4	
S1		S11					
S2		S12		TA		TB	
S3				TA02		TB02	
S4		RK		TA23		TB23	
S6							
S7		SA1		SB1			
S8		SA2		SB2			
S9		SA3		SB3			

Table 2

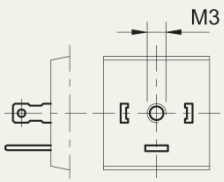
Code	Connector
C1	 DIN 43650 (IP65)

Table 3

Code	Nominal voltage [V] ±5%	Power Consumption
D12	12 VDC	45 W
D24	24 VDC	48 W
A230	230 V 50 Hz 240 V 60 Hz	105 VA

Table 4

Piloting	Type
I	Internal
E	External

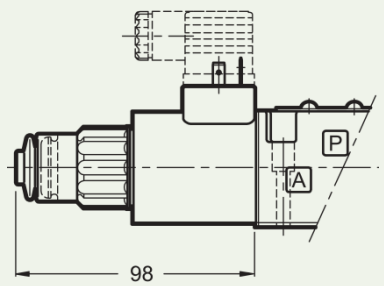
Table 5

Drainage	Type
I	Internal
E	External

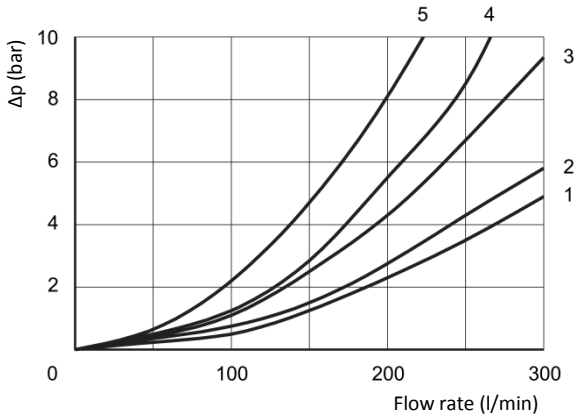
Table 6

Code	Material
B	Buna
V	Viton

Table 7

Code	Type
00	Standard
Y	External drain
MO	 Manual override boot protected

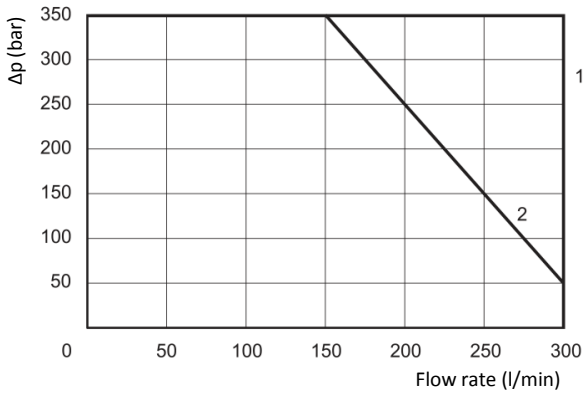
Pressure drop graphs (Δp with viscosity 36 cSt at 50°C)



Spool code	P→A	P→B	A→T	B→T	P→T
S1, SA1, SB1, S6, S9, S10, S11, S12, S8, TA, TB, RK	1	1	3	4	-
S2, SA2, SB2, S3, SA3, SB3, S7, TA02, TB02	1	1	4	4	2 5
S4, SA4, SB4	2	2	4	5	4

Operation limits (with viscosity 36 cSt at 50°C)

Values have been obtained with solenoids and rated temperature supplied with voltage equal to 90% of nominal voltage according to ISO 6403.



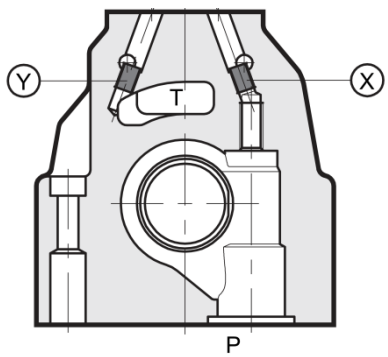
Spool code	P→A	P→B
S1, SA1, SB1, S2, SA2, SB2, S3, SA3, SB3, S6, S9, S10, S11, S12, TA, TB, TA02, TB02, TA23, TB23, RK	1	1
S4, SA4, SB4, S7, S8	2	2

Switching times (with viscosity 36 cSt at 50°C)

Power supply	Energizing		De-energizing	
	2 Pos	3 Pos	2 Pos	3 Pos
DC	45 ms	30 ms	45 ms	30 ms
AC	75 ms	60 ms	60 ms	45 ms

Switching times ± 10%

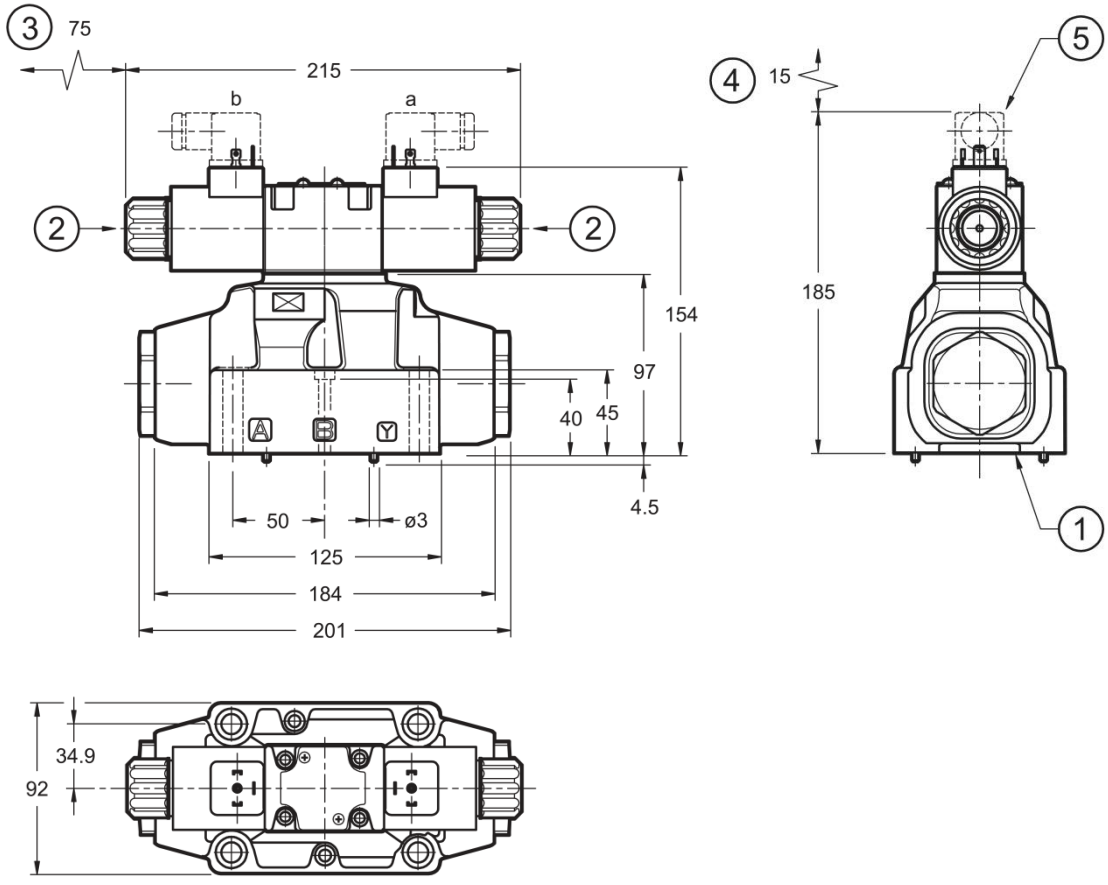
Pilot and drainage



X and **Y**: plug M6x8 for external pilot

Configuration		Plug assembly	
		X	Y
IE	Internal pilot, external drain	NO	YES
II	Internal pilot, internal drain	NO	NO
EE	External pilot, external drain	YES	YES
EI	External pilot, internal drain	YES	NO

Dimensional drawings (in mm)



Point	Description
1	Mounting surface with sealing rings
2	Manual override (integrated in core tube)
3	Coil removal space
4	Connector removal space
5	Electric connector (to be ordered separately)

Single valve fastening: N.4 SHC M10x60 – ISO 4763 N.2 SHC M6x50 – ISO 4763
Tightening torque: M10x60 (A8.8) screws 40 Nm, (A12.9) screws 67 Nm M6x60 (A8.8) screws 8 Nm, (A12.9) screws 14 Nm
Thread of mounting holes: M6x12, M10x18
O-rings: N. 4 type 130 (22.22x2.62 mm) – 90 shore N. 2 type 2043 (10.82x1.78 mm) – 90 shore

Notes	
Hydraulic fluids	Use NBR seals in combination with mineral oil based hydraulic fluids HL or HM according to ISO 6743-4; in combination with HFDR type fluids (phosphate esters), use FPM seals.